PRESUPUESTO

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PRESUPUESTO

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1.- MEDICIONES

1.1. MEDICIONES AUXILIARES

1.1.1. MOVIMIENTO DE TIERRAS

1.1.1.1. TIERRAS

TRONCO

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1734.276	SUEL-EST3 TERR	12.839	0.00	0.0	RELLEN MEDIANA	1.005	0.00	0.0
	VEGETAL	22.731	0.00	0.0	TERRAPLEN	205.448	0.00	0.0
1736.559	SUEL-EST3 TERR	12.668	29.12	29.1	RELLEN MEDIANA	1.066	2.36	2.4
	VEGETAL	21.960	51.01	51.0	TERRAPLEN	194.683	456.75	456.7
1738.455	SUEL-EST3 TERR	12.516	23.88	53.0	RELLEN MEDIANA	1.083	2.04	4.4
	VEGETAL	21.762	41.45	92.5	TERRAPLEN	191.090	365.71	822.5
1739.257	SUEL-EST3 TERR	12.452	10.01	63.0	RELLEN MEDIANA	1.090	0.87	5.3
	VEGETAL	21.680	17.42	109.9	TERRAPLEN	189.795	152.74	975.2
1739.271	SUEL-EST3 TERR	12.450	0.17	63.2	RELLEN MEDIANA	1.091	0.02	5.3
	VEGETAL	21.679	0.30	110.2	TERRAPLEN	189.774	2.66	977.9
1739.999	SUEL-EST3 TERR	12.396	9.04	72.2	RELLEN MEDIANA	1.098	0.80	6.1
	VEGETAL	21.611	15.76	125.9	TERRAPLEN	188.540	137.71	1115.6
1740.000	EXC SUELO 1	54.028	0.03	0.0	SUEL-EST3 TERR	12.396	0.01	72.2
	RELLEN MEDIANA	1.098	0.00	6.1	VEGETAL	21.611	0.02	126.0
	TERRAPLEN	242.567	0.22	1115.8				
1740.348	EXC SUELO 1	53.952	18.79	18.8	SUEL-EST3 TERR	12.370	4.31	76.5
	RELLEN MEDIANA	1.101	0.38	6.5	VEGETAL	21.581	7.52	133.5
	TERRAPLEN	241.902	84.30	1200.1				
1742.241	EXC SUELO 1	53.567	101.77	120.6	SUEL-EST3 TERR	12.228	23.28	99.8
	RELLEN MEDIANA	1.117	2.10	8.6	VEGETAL	21.427	40.71	174.2
	TERRAPLEN	238.141	454.36	1654.4				
1744.131	EXC SUELO 1	51.696	99.47	220.1	SUEL-EST3 TERR	12.085	22.98	122.8
	RELLEN MEDIANA	1.134	2.13	10.7	VEGETAL	20.678	39.79	214.0
	TERRAPLEN	222.409	435.22	2089.7				
1744.437	EXC SUELO 1	51.639	15.81	235.9	SUEL-EST3 TERR	12.062	3.69	126.5
	RELLEN MEDIANA	1.137	0.35	11.0	VEGETAL	20.656	6.32	220.3
	TERRAPLEN	222.034	68.00	2157.7				
1746.020	EXC SUELO 1	51.355	81.52	317.4	SUEL-EST3 TERR	11.950	19.01	145.5
	RELLEN MEDIANA	1.150	1.81	12.9	VEGETAL	20.542	32.61	252.9
	TERRAPLEN	220.179	350.01	2507.7				
1747.908	EXC SUELO 1	51.006	96.63	414.0	SUEL-EST3 TERR	11.815	22.43	167.9
	RELLEN MEDIANA	1.166	2.19	15.0	VEGETAL	20.403	38.65	291.6
	TERRAPLEN	217.222	412.91	2920.6				
1749.623	EXC SUELO 1	49.130	85.87	499.9	SUEL-EST3 TERR	11.694	20.16	188.1
	RELLEN MEDIANA	1.180	2.01	17.1	VEGETAL	19.652	34.35	325.9
	TERRAPLEN	193.938	352.57	3273.1				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1749.795	EXC SUELO 1	49.096	8.45	508.3	SUEL-EST3 TERR	11.682	2.01	190.1
	RELLEN MEDIANA	1.181	0.20	17.3	VEGETAL	19.639	3.38	329.3
	TERRAPLEN	193.766	33.34	3306.5				
1750.000	EXC SUELO 1	49.056	10.06	518.4	SUEL-EST3 TERR	11.670	2.39	192.5
	RELLEN MEDIANA	1.183	0.24	17.5	VEGETAL	19.622	4.02	333.3
	TERRAPLEN	193.565	39.70	3346.2				
1751.680	EXC SUELO 1	48.676	82.09	600.5	SUEL-EST3 TERR	11.562	19.51	212.0
	RELLEN MEDIANA	1.195	2.00	19.5	VEGETAL	19.470	32.84	366.1
	TERRAPLEN	192.010	323.88	3670.1				
1753.564	EXC SUELO 1	48.298	91.35	691.8	SUEL-EST3 TERR	11.440	21.67	233.7
	RELLEN MEDIANA	1.209	2.26	21.8	VEGETAL	19.319	36.54	402.7
	TERRAPLEN	190.478	360.30	4030.4				
1754.827	EXC SUELO 1	48.043	60.84	752.7	SUEL-EST3 TERR	11.359	14.40	248.1
	RELLEN MEDIANA	1.219	1.53	23.3	VEGETAL	19.217	24.34	427.0
	TERRAPLEN	189.406	239.90	4270.3				
1755.448	EXC SUELO 1	47.937	29.80	782.5	SUEL-EST3 TERR	11.323	7.04	255.1
	RELLEN MEDIANA	1.224	0.76	24.1	VEGETAL	19.175	11.92	438.9
	TERRAPLEN	188.961	117.48	4387.8				
1757.330	EXC SUELO 1	47.633	89.93	872.4	SUEL-EST3 TERR	11.215	21.21	276.3
	RELLEN MEDIANA	1.236	2.31	26.4	VEGETAL	19.053	35.97	474.9
	TERRAPLEN	187.769	354.50	4742.3				
1757.430	EXC SUELO 1	47.619	4.76	877.2	SUEL-EST3 TERR	11.209	1.12	277.5
	RELLEN MEDIANA	1.237	0.12	26.5	VEGETAL	19.048	1.91	476.8
	TERRAPLEN	187.718	18.77	4761.0				
1759.212	EXC SUELO 1	46.817	84.14	961.3	SUEL-EST3 TERR	11.108	19.88	297.3
	RELLEN MEDIANA	1.249	2.21	28.7	VEGETAL	18.727	33.66	510.5
	TERRAPLEN	181.636	329.09	5090.1				
1760.000	EXC SUELO 1	45.796	36.49	997.8	SUEL-EST3 TERR	11.065	8.74	306.1
	RELLEN MEDIANA	1.255	0.99	29.7	VEGETAL	18.319	14.60	525.1
	TERRAPLEN	157.638	133.67	5223.8				
1760.038	EXC SUELO 1	45.792	1.74	999.5	SUEL-EST3 TERR	11.063	0.42	306.5
	RELLEN MEDIANA	1.255	0.05	29.7	VEGETAL	18.317	0.70	525.8
	TERRAPLEN	157.632	5.99	5229.8				
1760.049	EXC SUELO 1	45.791	0.50	1000.0	SUEL-EST3 TERR	11.062	0.12	306.6
	RELLEN MEDIANA	1.255	0.01	29.8	VEGETAL	18.316	0.20	526.0
	TERRAPLEN	157.630	1.73	5231.5				

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1761.096	EXC SUELO 1	45.681	47.89	1047.9	SUEL-EST3 TERR	11.010	11.55	318.2
	RELLEN MEDIANA	1.261	1.32	31.1	VEGETAL	18.272	19.15	545.1
	TERRAPLEN	157.453	164.95	5396.5				
1762.980	EXC SUELO 1	45.440	85.84	1133.8	SUEL-EST3 TERR	10.920	20.66	338.8
	RELLEN MEDIANA	1.271	2.39	33.5	VEGETAL	18.176	34.33	579.5
	TERRAPLEN	156.852	296.08	5692.5				
1764.866	EXC SUELO 1	45.177	85.45	1219.2	SUEL-EST3 TERR	10.832	20.51	359.3
	RELLEN MEDIANA	1.281	2.41	35.9	VEGETAL	18.071	34.18	613.6
	TERRAPLEN	155.864	294.89	5987.4				
1764.999	EXC SUELO 1	45.157	6.01	1225.2	SUEL-EST3 TERR	10.826	1.44	360.8
	RELLEN MEDIANA	1.282	0.17	36.0	VEGETAL	18.063	2.40	616.0
	TERRAPLEN	155.765	20.72	6008.2				
1765.000	EXC SUELO 1	0.000	0.02	1225.2	SUEL-EST3 TERR	10.827	0.01	360.8
	RELLEN MEDIANA	1.282	0.00	36.0	VEGETAL	18.063	0.02	616.1
	TERRAPLEN	110.608	0.13	6008.3				
1765.273	SUEL-EST3 TERR	10.813	2.95	363.7	RELLEN MEDIANA	1.284	0.35	36.4
	VEGETAL	18.046	4.93	621.0	TERRAPLEN	110.387	30.17	6038.5
1766.753	SUEL-EST3 TERR	10.754	15.96	379.7	RELLEN MEDIANA	1.291	1.91	38.3
	VEGETAL	17.821	26.54	647.5	TERRAPLEN	107.444	161.19	6199.7
1768.641	SUEL-EST3 TERR	10.675	20.23	399.9	RELLEN MEDIANA	1.301	2.45	40.7
	VEGETAL	17.297	33.15	680.7	TERRAPLEN	96.774	192.78	6392.4
1770.000	SUEL-EST3 TERR	10.615	14.47	414.4	RELLEN MEDIANA	1.307	1.77	42.5
	VEGETAL	17.165	23.42	704.1	TERRAPLEN	76.446	117.70	6510.1
1770.499	SUEL-EST3 TERR	10.596	5.29	419.7	RELLEN MEDIANA	1.310	0.65	43.2
	VEGETAL	17.135	8.56	712.7	TERRAPLEN	76.355	38.12	6548.3
1770.529	SUEL-EST3 TERR	10.595	0.32	420.0	RELLEN MEDIANA	1.310	0.04	43.2
	VEGETAL	17.134	0.51	713.2	TERRAPLEN	76.352	2.29	6550.6
1772.419	SUEL-EST3 TERR	10.515	19.95	440.0	RELLEN MEDIANA	1.320	2.49	45.7
	VEGETAL	16.973	32.23	745.4	TERRAPLEN	75.406	143.41	6694.0
1774.310	EXC SUELO 2	1.380	1.31	1.3	SUEL-EST3 TERR	8.533	18.01	458.0
	RELLEN MEDIANA	1.330	2.51	48.2	VEGETAL	18.108	33.17	778.6
	TERRAPLEN	42.482	111.46	6805.4				
1775.725	EXC SUELO 2	1.276	1.88	3.2	SUEL-EST3 TERR	8.552	12.09	470.1
	RELLEN MEDIANA	1.337	1.89	50.1	VEGETAL	18.046	25.58	804.2
	TERRAPLEN	42.689	60.26	6865.7				
1776.202	EXC SUELO 2	1.245	0.60	3.8	SUEL-EST3 TERR	8.559	4.08	474.1
	RELLEN MEDIANA	1.339	0.64	50.7	VEGETAL	18.031	8.60	812.8
	TERRAPLEN	42.783	20.39	6886.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1778.094	EXC SUELO 2	1.119	2.24	6.0	SUEL-EST3 TERR	8.592	16.23	490.4
	RELLEN MEDIANA	1.349	2.54	53.3	VEGETAL	17.922	34.01	846.8
	TERRAPLEN	43.053	81.20	6967.3				
1779.987	EXC SUELO 2	0.994	2.00	8.0	SUEL-EST3 TERR	8.632	16.30	506.7
	RELLEN MEDIANA	1.358	2.56	55.8	VEGETAL	17.840	33.85	880.6
	TERRAPLEN	43.373	81.80	7049.1				
1780.000	EXC SUELO 2	0.993	0.01	8.0	SUEL-EST3 TERR	8.633	0.11	506.8
	RELLEN MEDIANA	1.358	0.02	55.8	VEGETAL	17.840	0.23	880.9
	TERRAPLEN	43.377	0.56	7049.6				
1780.951	EXC SUELO 2	0.931	0.91	8.9	SUEL-EST3 TERR	8.663	8.22	515.0
	RELLEN MEDIANA	1.362	1.29	57.1	VEGETAL	17.812	16.95	897.8
	TERRAPLEN	43.640	41.38	7091.0				
1786.177	EXC SUELO 2	5.320	16.33	25.3	SUEL-EST3 TERR	7.394	41.96	557.0
	RELLEN MEDIANA	1.385	7.18	64.3	VEGETAL	17.711	92.82	990.6
	TERRAPLEN	35.871	207.76	7298.8				
1790.000	EXC SUELO 2	11.939	32.99	58.3	SUEL-EST3 TERR	5.136	23.95	580.9
	RELLEN MEDIANA	0.715	4.01	68.3	VEGETAL	17.683	67.66	1058.3
	TERRAPLEN	18.392	103.72	7402.5				
1791.403	EXC SUELO 2	12.162	16.91	75.2	SUEL-EST3 TERR	5.141	7.21	588.1
	RELLEN MEDIANA	0.750	1.03	69.4	VEGETAL	17.664	24.80	1083.1
	TERRAPLEN	18.344	25.77	7428.3				
1792.330	EXC SUELO 2	13.071	11.70	86.9	SUEL-EST3 TERR	5.152	4.77	592.9
	RELLEN MEDIANA	0.774	0.71	70.1	VEGETAL	17.677	16.38	1099.5
	TERRAPLEN	18.363	17.01	7445.3				
1794.948	EXC SUELO 2	19.947	43.22	130.1	SUEL-EST3 TERR	5.098	13.42	606.3
	RELLEN MEDIANA	0.631	1.84	71.9	VEGETAL	17.779	46.41	1145.9
	TERRAPLEN	18.312	48.01	7493.3				
1794.999	EXC SUELO 2	19.991	1.02	131.1	SUEL-EST3 TERR	5.098	0.26	606.6
	RELLEN MEDIANA	0.627	0.03	71.9	VEGETAL	17.780	0.91	1146.8
	TERRAPLEN	18.309	0.93	7494.2				
1795.000	EXC SUELO 2	15.593	0.02	131.1	SUEL-EST3 TERR	5.159	0.01	606.6
	RELLEN MEDIANA	0.956	0.00	71.9	VEGETAL	26.668	0.02	1146.8
	TERRAPLEN	22.410	0.02	7494.2				
1800.000	EXC SUELO 2	51.647	168.10	299.2	SUELO ADECUADO	13.894	34.74	34.7
	SUEL-EST3 TERR	9.869	37.57	644.1	RELLEN MEDIANA	3.386	10.86	82.8
	RELLEN ARCENES	2.065	5.16	5.2	VEGETAL	26.538	133.02	1279.8
	TERRAPLEN	5.182	68.98	7563.2				

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1801.357	EXC SUELO 2	53.691	71.47	370.7	SUELO ADECUADO	13.769	18.77	53.5
	SUEL-EST3 TERR	9.869	13.39	657.5	RELLEN MEDIANA	3.397	4.60	87.4
	RELLEN ARCENES	2.065	2.80	8.0	VEGETAL	26.459	35.96	1315.8
	TERRAPLEN	4.774	6.75	7570.0				
1801.367	EXC SUELO 2	53.705	0.54	371.2	SUELO ADECUADO	13.768	0.14	53.6
	SUEL-EST3 TERR	9.869	0.10	657.6	RELLEN MEDIANA	3.397	0.03	87.4
	RELLEN ARCENES	2.066	0.02	8.0	VEGETAL	26.458	0.26	1316.0
	TERRAPLEN	4.770	0.05	7570.0				
1805.000	EXC SUELO 2	59.468	205.58	576.8	SUELO ADECUADO	13.524	49.58	103.2
	SUEL-EST3 TERR	9.312	34.84	692.5	RELLEN MEDIANA	3.426	12.40	99.8
	RELLEN ARCENES	3.242	9.64	17.6	VEGETAL	26.340	95.91	1411.9
	TERRAPLEN	3.589	15.18	7585.2				
1805.000	EXC SUELO 2	59.363	0.00	576.8	SUELO ADECUADO	13.524	0.00	103.2
	SUEL-EST3 TERR	9.312	0.00	692.5	RELLEN MEDIANA	3.426	0.00	99.8
	RELLEN ARCENES	2.921	0.00	17.6	VEGETAL	26.099	0.00	1411.9
	TERRAPLEN	3.589	0.00	7585.2				
1809.478	EXC SUELO 2	88.055	330.07	906.9	SUELO ADECUADO	17.205	68.80	172.0
	SUEL-EST3 TERR	9.804	42.80	735.3	RELLEN MEDIANA	3.491	15.49	115.3
	RELLEN ARCENES	2.470	12.07	29.7	VEGETAL	27.372	119.72	1531.7
	TERRAPLEN	0.189	8.46	7593.7				
1810.000	EXC SUELO 2	91.446	46.85	953.7	SUELO ADECUADO	17.205	8.98	181.0
	SUEL-EST3 TERR	9.803	5.12	740.4	RELLEN MEDIANA	3.498	1.82	117.1
	RELLEN ARCENES	2.466	1.29	31.0	VEGETAL	27.427	14.30	1546.0
	TERRAPLEN	0.190	0.10	7593.8				
1814.938	EXC SUELO 2	124.407	532.94	1486.7	SUELO ADECUADO	17.206	84.96	266.0
	SUEL-EST3 TERR	9.804	48.41	788.8	RELLEN MEDIANA	3.552	17.41	134.5
	RELLEN ARCENES	2.468	12.18	43.2	VEGETAL	27.875	136.54	1682.5
	TERRAPLEN	0.184	0.92	7594.7				
1818.417	EXC SUELO 2	147.596	473.15	1959.8	SUELO ADECUADO	17.206	59.86	325.8
	SUEL-EST3 TERR	9.803	34.11	822.9	RELLEN MEDIANA	3.589	12.42	147.0
	RELLEN ARCENES	2.425	8.51	51.7	VEGETAL	28.140	97.44	1779.9
	TERRAPLEN	0.180	0.63	7595.3				
1819.999	EXC SUELO 2	153.402	238.09	2197.9	SUELO ADECUADO	17.173	27.19	353.0
	SUEL-EST3 TERR	9.784	15.49	838.4	RELLEN MEDIANA	3.606	5.69	152.7
	RELLEN ARCENES	2.468	3.87	55.5	VEGETAL	28.125	44.51	1824.5
	TERRAPLEN	0.180	0.28	7595.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1820.000	EXC SUELO 3	153.405	0.08	0.1	EXC SUELO 2	0.000	0.08	2198.0
	SUELO ADECUADO	17.608	0.02	353.0	SUEL-EST3 TERR	10.045	0.01	838.4
	RELLEN MEDIANA	3.606	0.00	152.7	RELLEN ARCENES	1.772	0.00	55.6
	VEGETAL	28.125	0.03	1824.5	TERRAPLEN	0.180	0.00	7595.6
1820.037	EXC SUELO 3	133.136	5.30	5.4	SUELO ADECUADO	0.000	0.33	353.4
	SUEL-EST3 DESM	10.044	0.19	0.2	SUEL-EST3 TERR	0.000	0.19	838.6
	RELLEN MEDIANA	1.522	0.09	152.7	RELLEN ARCENES	0.894	0.05	55.6
	VEGETAL	28.128	1.04	1825.5	TERRAPLEN	0.180	0.01	7595.6
1825.845	EXC SUELO 3	180.087	909.60	915.0	SUEL-EST3 DESM	9.971	58.13	58.3
	RELLEN MEDIANA	1.539	8.89	161.6	RELLEN ARCENES	0.925	5.28	60.9
	VEGETAL	28.503	164.45	1990.0	TERRAPLEN	0.182	1.05	7596.7
1830.000	EXC SUELO 3	213.261	817.18	1732.2	SUEL-EST3 DESM	9.919	41.32	99.6
	RELLEN MEDIANA	1.553	6.42	168.1	RELLEN ARCENES	0.924	3.84	64.7
	VEGETAL	28.731	118.90	2108.9	TERRAPLEN	0.184	0.76	7597.4
1830.044	EXC SUELO 3	213.742	9.39	1741.6	SUEL-EST3 DESM	9.918	0.44	100.1
	RELLEN MEDIANA	1.554	0.07	168.1	RELLEN ARCENES	0.924	0.04	64.8
	VEGETAL	28.736	1.26	2110.1	TERRAPLEN	0.184	0.01	7597.4
1833.870	EXC SUELO 3	255.755	898.15	2639.7	SUEL-EST3 DESM	9.870	37.85	137.9
	RELLEN MEDIANA	1.569	5.97	174.1	RELLEN ARCENES	0.925	3.54	68.3
	VEGETAL	29.151	110.74	2220.9	TERRAPLEN	0.178	0.69	7598.1
1839.851	EXC ROCA 1	0.301	0.90	0.9	EXC SUELO 3	320.399	1722.99	4362.7
	SUEL-EST3 DESM	8.952	56.28	194.2	RELLEN MEDIANA	1.593	9.46	183.6
	RELLEN ARCENES	0.255	3.53	71.8	VEGETAL	29.739	176.11	2397.0
	TERRAPLEN	0.171	1.04	7599.2				
1840.000	EXC ROCA 1	0.419	0.05	1.0	EXC SUELO 3	321.811	47.84	4410.5
	SUEL-EST3 DESM	8.825	1.32	195.5	RELLEN MEDIANA	1.594	0.24	183.8
	RELLEN ARCENES	0.254	0.04	71.9	VEGETAL	29.751	4.43	2401.4
	TERRAPLEN	0.171	0.03	7599.2				
1842.000	EXC ROCA 1	2.176	2.60	3.5	EXC SUELO 3	335.806	657.62	5068.1
	SUEL-EST3 DESM	7.217	16.04	211.6	RELLEN MEDIANA	1.599	3.19	187.0
	RELLEN ARCENES	0.250	0.50	72.4	VEGETAL	29.889	59.64	2461.1
	TERRAPLEN	0.157	0.33	7599.5				
1842.000	EXC ROCA 1	2.176	0.00	3.5	EXC SUELO 3	304.498	0.00	5068.1
	SUEL-EST3 DESM	7.217	0.00	211.6	RELLEN MEDIANA	1.599	0.00	187.0
	RELLEN ARCENES	0.250	0.00	72.4	VEGETAL	24.994	0.00	2461.1
1843.702	EXC ROCA 1	4.961	6.07	9.6	EXC SUELO 3	307.639	520.93	5589.1
	SUEL-EST3 DESM	6.141	11.37	222.9	RELLEN MEDIANA	1.427	2.58	189.6
	RELLEN ARCENES	0.249	0.42	72.8	VEGETAL	24.958	42.51	2503.6

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1843.712	EXC ROCA 1	3.941	0.04	9.7	EXC SUELO 3	290.079	2.99	5592.1
	SUEL-EST3 DESM	6.134	0.06	223.0	RELLEN MEDIANA	1.425	0.01	189.6
	RELLEN ARCENES	0.249	0.00	72.8	VEGETAL	23.640	0.24	2503.8
1844.572	EXC ROCA 1	5.358	4.00	13.7	EXC SUELO 3	291.083	249.90	5842.0
	SUEL-EST3 DESM	5.472	4.99	228.0	RELLEN MEDIANA	1.185	1.12	190.7
	RELLEN ARCENES	0.249	0.21	73.0	VEGETAL	23.623	20.32	2524.1
1846.572	EXC ROCA 1	9.778	15.14	28.8	EXC SUELO 3	293.030	584.11	6426.1
	SUEL-EST3 DESM	4.677	10.15	238.1	RELLEN MEDIANA	0.643	1.83	192.5
	RELLEN ARCENES	0.253	0.50	73.5	VEGETAL	23.591	47.21	2571.4
1847.746	EXC ROCA 1	13.038	13.39	42.2	EXC SUELO 3	294.045	344.61	6770.7
	SUEL-EST3 DESM	4.662	5.48	243.6	RELLEN MEDIANA	0.414	0.62	193.1
	RELLEN ARCENES	0.256	0.30	73.8	VEGETAL	23.576	27.69	2599.0
1848.072	EXC ROCA 1	13.963	4.40	46.6	EXC SUELO 3	294.270	95.90	6866.6
	SUEL-EST3 DESM	4.658	1.52	245.1	RELLEN MEDIANA	0.364	0.13	193.3
	RELLEN ARCENES	0.255	0.08	73.9	VEGETAL	23.568	7.68	2606.7
1850.000	EXC ROCA 1	19.588	32.34	78.9	EXC SUELO 3	295.552	568.59	7435.2
	SUEL-EST3 DESM	4.633	8.96	254.1	RELLEN MEDIANA	0.179	0.52	193.8
	RELLEN ARCENES	0.252	0.49	74.4	VEGETAL	23.525	45.40	2652.1
1850.071	EXC ROCA 1	19.633	1.39	80.3	EXC SUELO 3	295.643	20.99	7456.2
	SUEL-EST3 DESM	4.633	0.33	254.4	RELLEN MEDIANA	0.178	0.01	193.8
	RELLEN ARCENES	0.252	0.02	74.4	VEGETAL	23.523	1.67	2653.8
1852.571	EXC ROCA 1	21.242	51.09	131.4	EXC SUELO 3	298.933	743.22	8199.4
	SUEL-EST3 DESM	4.599	11.54	266.0	RELLEN MEDIANA	0.173	0.44	194.3
	RELLEN ARCENES	0.253	0.63	75.0	VEGETAL	23.479	58.75	2712.5
1853.584	EXC ROCA 1	21.885	21.84	153.3	EXC SUELO 3	300.295	303.51	8502.9
	SUEL-EST3 DESM	4.583	4.65	270.6	RELLEN MEDIANA	0.172	0.17	194.4
	RELLEN ARCENES	0.256	0.26	75.3	VEGETAL	23.465	23.78	2736.3
1854.999	EXC ROCA 1	22.768	31.59	184.9	EXC SUELO 3	301.979	426.11	8929.0
	SUEL-EST3 DESM	4.554	6.46	277.1	RELLEN MEDIANA	0.170	0.24	194.7
	RELLEN ARCENES	0.253	0.36	75.7	VEGETAL	23.432	33.18	2769.5
1855.000	EXC ROCA 2	0.471	0.00	0.0	EXC ROCA 1	47.914	0.04	184.9
	EXC SUELO 3	273.104	0.29	8929.3	SUEL-EST3 DESM	1.718	0.00	277.1
	VEGETAL	23.431	0.02	2769.5				
1855.072	EXC ROCA 2	0.497	0.03	0.0	EXC ROCA 1	48.083	3.46	188.4
	EXC SUELO 3	273.118	19.66	8949.0	SUEL-EST3 DESM	1.689	0.12	277.2
	VEGETAL	23.429	1.69	2771.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1858.071	EXC ROCA 2	2.251	4.12	4.2	EXC ROCA 1	55.146	154.79	343.1
	EXC SUELO 3	272.669	818.41	9767.4	SUEL-EST3 DESM	0.001	2.54	279.7
	VEGETAL	23.372	70.18	2841.4				
1859.342	EXC ROCA 2	3.474	3.64	7.8	EXC ROCA 1	58.651	72.32	415.5
	EXC SUELO 3	272.901	346.71	10114.1	VEGETAL	23.392	29.72	2871.1
1859.997	EXC ROCA 2	4.222	2.52	10.3	EXC ROCA 1	60.331	38.97	454.4
	EXC SUELO 3	272.950	178.77	10292.8	VEGETAL	23.397	15.32	2886.4
1860.000	EXC ROCA 2	4.224	0.01	10.3	EXC ROCA 1	60.338	0.18	454.6
	EXC SUELO 3	272.951	0.82	10293.7	VEGETAL	23.395	0.07	2886.5
1863.106	EXC ROCA 2	8.529	19.80	30.1	EXC ROCA 1	60.310	187.37	642.0
	EXC SUELO 3	272.259	846.71	11140.4	VEGETAL	23.337	72.58	2959.1
1863.146	EXC ROCA 2	8.584	0.34	30.5	EXC ROCA 1	60.309	2.41	644.4
	EXC SUELO 3	272.253	10.89	11151.3	VEGETAL	23.336	0.93	2960.0
1864.610	EXC ROCA 2	10.619	14.06	44.5	EXC ROCA 1	60.352	88.32	732.7
	EXC SUELO 3	271.773	398.23	11549.5	RELLEN ARCENES	0.015	0.01	75.7
	VEGETAL	23.300	34.14	2994.2				
1864.627	EXC ROCA 2	10.596	0.18	44.7	EXC ROCA 1	60.360	1.03	733.7
	EXC SUELO 3	271.769	4.62	11554.1	RELLEN ARCENES	0.015	0.00	75.7
	VEGETAL	23.300	0.40	2994.5				
1866.898	EXC ROCA 2	7.612	20.67	65.4	EXC ROCA 1	61.543	138.42	872.2
	EXC SUELO 3	270.942	616.25	12170.4	RELLEN ARCENES	0.000	0.02	75.7
	VEGETAL	23.224	52.83	3047.4				
1870.000	EXC ROCA 2	5.198	19.87	85.3	EXC ROCA 1	61.527	190.88	1063.0
	EXC SUELO 3	269.907	838.86	13009.2	SUEL-EST3 DESM	0.031	0.05	279.8
	VEGETAL	23.135	71.90	3119.3				
1870.038	EXC ROCA 2	5.316	0.20	85.5	EXC ROCA 1	61.597	2.34	1065.4
	EXC SUELO 3	269.895	10.26	13019.5	SUEL-EST3 DESM	0.025	0.00	279.8
	VEGETAL	23.134	0.88	3120.2				
1870.043	EXC ROCA 2	5.332	0.03	85.5	EXC ROCA 1	61.606	0.31	1065.7
	EXC SUELO 3	269.892	1.35	13020.8	SUEL-EST3 DESM	0.024	0.00	279.8
	VEGETAL	23.134	0.12	3120.3				
1871.382	EXC ROCA 2	10.372	10.51	96.0	EXC ROCA 1	63.376	83.68	1149.4
	EXC SUELO 3	269.327	361.01	13381.8	SUEL-EST3 DESM	0.000	0.02	279.8
	VEGETAL	23.086	30.94	3151.2				
1874.311	EXC ROCA 2	23.187	49.15	145.1	EXC ROCA 1	65.316	188.47	1337.8
	EXC SUELO 3	268.218	787.23	14169.1	VEGETAL	22.991	67.48	3218.7
1874.332	EXC ROCA 2	23.280	0.49	145.6	EXC ROCA 1	65.327	1.37	1339.2
	EXC SUELO 3	268.212	5.63	14174.7	VEGETAL	22.990	0.48	3219.2

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1879.785	EXC ROCA 2	47.693	193.51	339.1	EXC ROCA 1	67.626	362.50	1701.7
	EXC SUELO 3	266.091	1456.78	15631.5	VEGETAL	22.808	124.87	3344.0
1880.000	EXC ROCA 2	48.645	10.36	349.5	EXC ROCA 1	67.693	14.55	1716.2
	EXC SUELO 3	265.984	57.20	15688.7	VEGETAL	22.799	4.90	3348.9
1880.031	EXC ROCA 2	48.562	1.51	351.0	EXC ROCA 1	67.730	2.10	1718.3
	EXC SUELO 3	265.970	8.25	15696.9	VEGETAL	22.798	0.71	3349.7
1883.373	EXC ROCA 2	40.045	148.06	499.1	EXC ROCA 1	71.214	232.17	1950.5
	EXC SUELO 3	264.623	886.62	16583.5	VEGETAL	22.682	76.00	3425.7
1886.211	EXC ROCA 2	35.485	107.18	606.2	EXC ROCA 1	71.422	202.40	2152.9
	EXC SUELO 3	263.682	749.67	17333.2	VEGETAL	22.601	64.26	3489.9
1886.928	EXC ROCA 2	34.911	25.24	631.5	EXC ROCA 1	70.834	51.00	2203.9
	EXC SUELO 3	263.371	188.95	17522.1	VEGETAL	22.575	16.20	3506.1
1889.999	EXC ROCA 2	34.570	106.69	738.2	EXC ROCA 1	66.213	210.43	2414.4
	EXC SUELO 3	262.242	807.08	18329.2	VEGETAL	22.478	69.18	3575.3
1890.000	EXC ROCA 2	127.007	0.08	738.2	EXC ROCA 1	93.658	0.08	2414.4
	EXC SUELO 3	149.852	0.21	18329.4	VEGETAL	14.985	0.02	3575.3
1890.036	EXC ROCA 2	126.991	4.57	742.8	EXC ROCA 1	93.653	3.37	2417.8
	EXC SUELO 3	149.845	5.39	18334.8	VEGETAL	14.984	0.54	3575.8
1890.045	EXC ROCA 2	126.990	1.14	744.0	EXC ROCA 1	93.652	0.84	2418.6
	EXC SUELO 3	149.844	1.35	18336.2	VEGETAL	14.985	0.13	3576.0
1892.190	EXC ROCA 2	126.099	271.44	1015.4	EXC ROCA 1	93.352	200.56	2619.2
	EXC SUELO 3	149.363	320.90	18657.1	VEGETAL	14.936	32.09	3608.1
1892.206	EXC ROCA 2	126.093	2.02	1017.4	EXC ROCA 1	93.350	1.49	2620.7
	EXC SUELO 3	149.360	2.39	18659.5	VEGETAL	14.936	0.24	3608.3
1895.650	EXC ROCA 2	124.586	431.67	1449.1	EXC ROCA 1	92.867	320.66	2941.4
	EXC SUELO 3	148.587	513.06	19172.5	VEGETAL	14.858	51.31	3659.6
1895.664	EXC ROCA 2	124.580	1.74	1450.8	EXC ROCA 1	92.865	1.30	2942.7
	EXC SUELO 3	148.584	2.08	19174.6	VEGETAL	14.858	0.21	3659.8
1898.533	EXC ROCA 2	123.278	355.55	1806.4	EXC ROCA 1	92.464	265.86	3208.5
	EXC SUELO 3	147.943	425.37	19600.0	VEGETAL	14.794	42.54	3702.4
1900.000	EXC ROCA 2	122.352	180.17	1986.6	EXC ROCA 1	92.116	135.39	3343.9
	EXC SUELO 3	147.385	216.62	19816.6	VEGETAL	14.738	21.66	3724.0
1900.039	EXC ROCA 2	122.296	4.77	1991.3	EXC ROCA 1	92.106	3.59	3347.5
	EXC SUELO 3	147.370	5.75	19822.3	VEGETAL	14.737	0.57	3724.6
1901.417	EXC ROCA 2	120.358	167.19	2158.5	EXC ROCA 1	91.808	126.72	3474.2
	EXC SUELO 3	146.893	202.75	20025.1	VEGETAL	14.689	20.27	3744.9
1901.439	EXC ROCA 2	120.348	2.65	2161.2	EXC ROCA 1	91.804	2.02	3476.2
	EXC SUELO 3	146.886	3.23	20028.3	VEGETAL	14.688	0.32	3745.2

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1901.450	EXC ROCA 2	120.345	1.32	2162.5	EXC ROCA 1	91.803	1.01	3477.2
	EXC SUELO 3	146.884	1.62	20029.9	VEGETAL	14.688	0.16	3745.4
1904.095	EXC ROCA 2	119.753	317.53	2480.0	EXC ROCA 1	91.700	242.68	3719.9
	EXC SUELO 3	146.720	388.29	20418.2	VEGETAL	14.672	38.83	3784.2
1904.138	EXC ROCA 2	119.743	5.15	2485.2	EXC ROCA 1	91.697	3.94	3723.9
	EXC SUELO 3	146.716	6.31	20424.5	VEGETAL	14.671	0.63	3784.8
1906.163	EXC ROCA 2	119.327	242.06	2727.2	EXC ROCA 1	91.625	185.61	3909.5
	EXC SUELO 3	146.599	296.98	20721.5	VEGETAL	14.660	29.70	3814.5
1907.425	EXC ROCA 2	119.053	150.42	2877.6	EXC ROCA 1	91.567	115.59	4025.1
	EXC SUELO 3	146.506	184.95	20906.5	VEGETAL	14.651	18.49	3833.0
1907.466	EXC ROCA 2	119.044	4.88	2882.5	EXC ROCA 1	91.564	3.75	4028.8
	EXC SUELO 3	146.502	6.01	20912.5	VEGETAL	14.650	0.60	3833.6
1909.074	EXC ROCA 2	118.734	191.17	3073.7	EXC ROCA 1	91.507	147.19	4176.0
	EXC SUELO 3	146.410	235.50	21148.0	VEGETAL	14.641	23.55	3857.2
1909.992	EXC ROCA 2	118.554	108.91	3182.6	EXC ROCA 1	91.466	83.98	4260.0
	EXC SUELO 3	146.345	134.37	21282.4	VEGETAL	14.634	13.44	3870.6
1910.000	EXC ROCA 2	118.552	0.95	3183.6	EXC ROCA 1	91.465	0.73	4260.7
	EXC SUELO 3	146.344	1.17	21283.5	VEGETAL	14.634	0.12	3870.7
1910.034	EXC ROCA 2	118.546	4.03	3187.6	EXC ROCA 1	91.463	3.11	4263.9
	EXC SUELO 3	146.341	4.98	21288.5	VEGETAL	14.634	0.50	3871.2
1912.347	EXC ROCA 2	118.325	273.94	3461.5	EXC ROCA 1	91.390	211.47	4475.3
	EXC SUELO 3	146.224	338.35	21626.9	VEGETAL	14.622	33.83	3905.0
1912.391	EXC ROCA 2	118.319	5.21	3466.7	EXC ROCA 1	91.388	4.02	4479.3
	EXC SUELO 3	146.220	6.43	21633.3	VEGETAL	14.622	0.64	3905.7
1912.471	EXC ROCA 2	118.312	9.47	3476.2	EXC ROCA 1	91.385	7.31	4486.7
	EXC SUELO 3	146.215	11.70	21645.0	VEGETAL	14.621	1.17	3906.9
1912.481	EXC ROCA 2	122.551	1.20	3477.4	EXC ROCA 1	96.883	0.94	4487.6
	EXC SUELO 3	155.013	1.51	21646.5	VEGETAL	15.501	0.15	3907.0
1915.000	EXC ROCA 2	121.454	307.32	3784.7	EXC ROCA 1	96.803	243.95	4731.5
	EXC SUELO 3	154.885	390.32	22036.8	VEGETAL	15.488	39.03	3946.0
1915.000	EXC ROCA 2	121.507	0.00	3784.7	EXC ROCA 1	99.476	0.00	4731.5
	EXC SUELO 3	172.241	0.00	22036.8	VEGETAL	18.328	0.00	3946.0
	TERRAPLEN	0.094	0.00	7599.5				
1915.632	EXC ROCA 2	120.617	76.51	3861.2	EXC ROCA 1	99.333	62.82	4794.4
	EXC SUELO 3	172.816	109.04	22145.8	VEGETAL	18.562	11.66	3957.7
	TERRAPLEN	0.097	0.06	7599.6				

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1917.238	EXC ROCA 2	118.399	191.93	4053.2	EXC ROCA 1	98.961	159.23	4953.6
	EXC SUELO 3	175.651	279.82	22425.7	VEGETAL	19.146	30.28	3988.0
	TERRAPLEN	0.092	0.15	7599.7				
1920.000	EXC ROCA 2	115.441	322.93	4376.1	EXC ROCA 1	98.354	272.49	5226.1
	EXC SUELO 3	184.144	496.88	22922.5	VEGETAL	20.090	54.18	4042.2
	TERRAPLEN	0.081	0.24	7600.0				
1920.378	EXC ROCA 2	114.552	43.47	4419.6	EXC ROCA 1	98.907	37.28	5263.4
	EXC SUELO 3	184.632	69.70	22992.2	VEGETAL	20.072	7.59	4049.7
	TERRAPLEN	0.081	0.03	7600.0				
1927.786	EXC ROCA 2	109.366	829.39	5249.0	EXC ROCA 1	103.867	751.07	6014.4
	EXC SUELO 3	188.331	1381.46	24373.7	VEGETAL	19.775	147.60	4197.3
	TERRAPLEN	0.070	0.56	7600.6				
1929.999	EXC ROCA 2	112.925	245.96	5494.9	EXC ROCA 1	101.961	227.75	6242.2
	EXC SUELO 3	187.853	416.25	24789.9	VEGETAL	19.700	43.68	4241.0
	TERRAPLEN	0.068	0.15	7600.7				
1930.000	EXC ROCA 2	283.451	0.20	5495.1	EXC ROCA 1	119.289	0.11	6242.3
	EXC SUELO 3	0.000	0.09	24790.0	VEGETAL	19.700	0.02	4241.0
	TERRAPLEN	0.068	0.00	7600.7				
1931.609	EXC ROCA 2	281.336	454.37	5949.5	EXC ROCA 1	116.582	189.76	6432.1
	VEGETAL	19.318	31.39	4272.4	TERRAPLEN	0.081	0.12	7600.8
1935.210	EXC ROCA 2	276.845	1005.00	6954.5	EXC ROCA 1	113.418	414.11	6846.2
	VEGETAL	18.293	67.72	4340.2	TERRAPLEN	0.079	0.29	7601.1
1938.136	EXC ROCA 2	273.510	805.17	7759.7	EXC ROCA 1	113.206	331.55	7177.7
	VEGETAL	18.125	53.28	4393.4	TERRAPLEN	0.001	0.12	7601.3
1940.000	EXC ROCA 2	271.407	507.86	8267.5	EXC ROCA 1	113.040	210.86	7388.6
	VEGETAL	18.105	33.77	4427.2	TERRAPLEN	0.001	0.00	7601.3
1940.712	EXC ROCA 2	267.841	191.97	8459.5	EXC ROCA 1	112.784	80.39	7469.0
	VEGETAL	18.098	12.89	4440.1	TERRAPLEN	0.001	0.00	7601.3
1946.141	EXC ROCA 2	246.162	1395.26	9854.8	EXC ROCA 1	106.247	594.56	8063.5
	VEGETAL	17.667	97.08	4537.2	TERRAPLEN	0.082	0.23	7601.5
1949.007	EXC ROCA 2	238.976	695.20	10550.0	EXC ROCA 1	101.715	298.01	8361.5
	VEGETAL	16.960	49.62	4586.8	TERRAPLEN	0.083	0.24	7601.7
1949.999	EXC ROCA 2	237.358	236.26	10786.2	EXC ROCA 1	99.999	100.05	8461.6
	VEGETAL	16.702	16.70	4603.5	TERRAPLEN	0.085	0.08	7601.8
1950.000	EXC ROCA 2	337.352	0.29	10786.5	EXC ROCA 1	0.000	0.05	8461.6
	VEGETAL	16.702	0.02	4603.5	TERRAPLEN	0.085	0.00	7601.8
1952.728	EXC ROCA 2	319.281	895.65	11682.2	VEGETAL	16.641	45.48	4649.0
	TERRAPLEN	0.096	0.25	7602.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1958.000	EXC ROCA 2	284.742	1592.20	13274.4	VEGETAL	16.508	87.38	4736.4
	TERRAPLEN	0.128	0.59	7602.6				
1958.000	EXC ROCA 2	284.742	0.00	13274.4	VEGETAL	16.508	0.00	4736.4
	TERRAPLEN	0.128	0.00	7602.6				
1959.943	EXC ROCA 2	293.534	561.79	13836.2	VEGETAL	20.383	35.84	4772.2
	TERRAPLEN	0.098	0.22	7602.9				
1959.953	EXC ROCA 2	346.679	3.20	13839.4	VEGETAL	24.341	0.22	4772.4
	TERRAPLEN	0.137	0.00	7602.9				
1960.000	EXC ROCA 2	346.623	16.29	13855.7	VEGETAL	24.345	1.14	4773.6
	TERRAPLEN	0.136	0.01	7602.9				
1970.000	EXC ROCA 2	360.152	3533.87	17389.5	VEGETAL	25.708	250.27	5023.8
	TERRAPLEN	0.152	1.44	7604.3				
1980.000	EXC ROCA 2	392.389	3762.70	21152.2	VEGETAL	27.430	265.69	5289.5
	TERRAPLEN	0.103	1.28	7605.6				
1990.000	EXC ROCA 2	482.845	4376.17	25528.4	VEGETAL	25.193	263.11	5552.6
	TERRAPLEN	0.079	0.91	7606.5				
2000.000	EXC ROCA 2	547.514	5151.80	30680.2	VEGETAL	26.388	257.90	5810.5
	TERRAPLEN	0.153	1.16	7607.7				
2009.999	EXC ROCA 2	605.771	5765.85	36446.1	VEGETAL	26.872	266.27	6076.8
	TERRAPLEN	0.166	1.59	7609.2				
2010.000	EXC ROCA 2	342.379	0.47	36446.5	EXC SUELO 3	265.080	0.13	24790.2
	HM-20	1.278	0.00	0.0	RELLEN ARCENES	0.405	0.00	75.7
	VEGETAL	26.872	0.03	6076.8	TERRAPLEN	0.166	0.00	7609.2
2020.000	EXC ROCA 2	342.521	3424.50	39871.0	EXC SUELO 3	278.227	2716.54	27506.7
	HM-20	0.057	6.68	6.7	RELLEN ARCENES	0.405	4.05	79.7
	VEGETAL	24.616	257.44	6334.3	TERRAPLEN	0.152	1.59	7610.8
2030.000	EXC ROCA 2	326.653	3345.87	43216.9	EXC SUELO 3	285.087	2816.57	30323.3
	HM-20	0.000	0.28	7.0	RELLEN ARCENES	0.000	2.03	81.8
	VEGETAL	24.942	247.79	6582.1	TERRAPLEN	0.146	1.49	7612.3
2031.610	EXC ROCA 2	311.118	513.41	43730.3	EXC SUELO 3	283.036	457.34	30780.6
	RELLEN MEDIANA	0.001	0.00	194.8	VEGETAL	24.910	40.13	6622.2
	TERRAPLEN	0.159	0.25	7612.6				
2040.000	EXC ROCA 2	214.795	2206.20	45936.5	EXC SUELO 3	267.583	2309.85	33090.5
	RELLEN MEDIANA	0.001	0.01	194.8	VEGETAL	24.110	205.64	6827.8
	TERRAPLEN	0.214	1.56	7614.1				
2050.000	EXC ROCA 2	93.221	1540.08	47476.6	EXC SUELO 3	247.130	2573.56	35664.0
	RELLEN MEDIANA	0.001	0.01	194.8	VEGETAL	22.453	232.81	7060.7
	TERRAPLEN	0.145	1.80	7615.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2060.000	EXC ROCA 2	3.548	483.84	47960.4	EXC SUELO 3	188.053	2175.91	37839.9
	HM-20	3.407	17.04	24.0	RELLEN MEDIANA	0.929	4.65	199.4
	RELLEN ARCENES	0.404	2.02	83.8	VEGETAL	20.038	212.45	7273.1
	TERRAPLEN	0.317	2.31	7618.2				
2064.999	EXC ROCA 2	0.000	8.87	47969.3	EXC SUELO 3	137.405	813.48	38653.4
	HM-20	3.934	18.35	42.3	RELLEN MEDIANA	0.923	4.63	204.1
	RELLEN ARCENES	0.725	2.82	86.6	VEGETAL	18.674	96.76	7369.9
	TERRAPLEN	0.263	1.45	7619.7				
2065.000	EXC SUELO 3	137.396	0.14	38653.6	HM-20	3.934	0.00	42.3
	RELLEN MEDIANA	0.924	0.00	204.1	RELLEN ARCENES	0.724	0.00	86.6
	VEGETAL	18.674	0.02	7369.9	TERRAPLEN	0.263	0.00	7619.7
2070.000	EXC SUELO 3	93.607	577.51	39231.1	HM-20	0.000	9.84	52.2
	SUEL-EST3 DESM	7.967	19.92	299.7	RELLEN MEDIANA	1.790	6.78	210.8
	RELLEN ARCENES	1.254	4.95	91.6	VEGETAL	17.242	89.79	7459.7
	TERRAPLEN	0.288	1.38	7621.1				
2080.000	EXC SUELO 3	50.631	721.19	39952.3	SUEL-EST3 DESM	7.458	77.12	376.9
	SUEL-EST3 TERR	0.510	2.55	841.2	RELLEN MEDIANA	1.775	17.83	228.7
	RELLEN ARCENES	1.254	12.54	104.1	VEGETAL	16.669	169.55	7629.2
	TERRAPLEN	0.165	2.27	7623.3				
2090.000	EXC SUELO 3	141.072	958.52	40910.8	SUEL-EST3 DESM	7.967	77.12	454.0
	SUEL-EST3 TERR	0.000	2.55	843.7	RELLEN MEDIANA	1.761	17.68	246.4
	RELLEN ARCENES	1.254	12.54	116.6	VEGETAL	18.081	173.75	7803.0
	TERRAPLEN	0.166	1.66	7625.0				
2099.999	EXC SUELO 3	176.185	1586.13	42496.9	SUEL-EST3 DESM	7.966	79.66	533.6
	RELLEN MEDIANA	1.734	17.48	263.8	RELLEN ARCENES	1.255	12.54	129.2
	VEGETAL	19.161	186.19	7989.2	TERRAPLEN	0.168	1.67	7626.7
2100.000	EXC ROCA 2	10.167	0.01	47969.3	EXC ROCA 1	155.071	0.08	8461.7
	EXC SUELO 3	0.000	0.09	42497.0	RELLEN MEDIANA	0.001	0.00	263.8
	VEGETAL	19.162	0.02	7989.2	TERRAPLEN	0.168	0.00	7626.7
2110.000	EXC ROCA 2	139.391	747.79	48717.1	EXC ROCA 1	194.716	1748.94	10210.7
	RELLEN MEDIANA	0.001	0.01	263.8	VEGETAL	21.376	202.69	8191.9
	TERRAPLEN	0.158	1.63	7628.3				
2120.000	EXC ROCA 2	115.336	1273.63	49990.7	EXC ROCA 1	188.408	1915.62	12126.3
	RELLEN MEDIANA	0.001	0.01	263.9	VEGETAL	20.769	210.72	8402.6
	TERRAPLEN	0.161	1.59	7629.9				
2130.000	EXC ROCA 2	238.518	1769.27	51760.0	EXC ROCA 1	220.279	2043.43	14169.7
	RELLEN MEDIANA	0.001	0.01	263.9	VEGETAL	24.268	225.18	8627.8
	TERRAPLEN	0.185	1.73	7631.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2139.999	EXC ROCA 2	339.809	2891.35	54651.3	EXC ROCA 1	233.208	2267.21	16436.9
	VEGETAL	25.398	248.30	8876.1	TERRAPLEN	0.173	1.79	7633.4
2140.000	EXC ROCA 2	55.208	0.20	54651.5	EXC ROCA 1	231.780	0.23	16437.2
	EXC SUELO 3	286.039	0.14	42497.1	RELLEN MEDIANA	0.001	0.00	263.9
	VEGETAL	25.398	0.03	8876.1	TERRAPLEN	0.173	0.00	7633.4
2150.000	EXC ROCA 2	137.987	965.97	55617.5	EXC ROCA 1	247.718	2397.49	18834.6
	EXC SUELO 3	301.449	2937.44	45434.6	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	26.717	260.58	9136.7	TERRAPLEN	0.177	1.75	7635.1
2160.000	EXC ROCA 2	226.783	1823.85	57441.4	EXC ROCA 1	263.616	2556.67	21391.3
	EXC SUELO 3	316.504	3089.76	48524.3	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	27.795	272.56	9409.2	TERRAPLEN	0.177	1.77	7636.9
2170.000	EXC ROCA 2	267.921	2473.52	59914.9	EXC ROCA 1	271.598	2676.07	24067.4
	EXC SUELO 3	327.444	3219.74	51744.1	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	28.755	282.75	9692.0	TERRAPLEN	0.160	1.69	7638.6
2180.000	EXC ROCA 2	290.916	2794.18	62709.1	EXC ROCA 1	276.647	2741.23	26808.6
	EXC SUELO 3	329.325	3283.84	55027.9	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	28.757	287.56	9979.6	TERRAPLEN	0.160	1.60	7640.2
2190.000	EXC ROCA 2	286.757	2888.37	65597.4	EXC ROCA 1	277.833	2772.40	29581.0
	EXC SUELO 3	330.273	3297.99	58325.9	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	29.013	288.85	10268.4	TERRAPLEN	0.179	1.70	7641.9
2200.000	EXC ROCA 2	268.297	2775.27	68372.7	EXC ROCA 1	277.782	2778.08	32359.1
	EXC SUELO 3	334.114	3321.93	61647.8	RELLEN MEDIANA	0.001	0.01	263.9
	VEGETAL	29.136	290.75	10559.2	TERRAPLEN	0.155	1.67	7643.6
2210.000	EXC ROCA 2	240.814	2545.55	70918.2	EXC ROCA 1	279.489	2786.36	35145.4
	EXC SUELO 3	330.585	3323.49	64971.3	RELLEN MEDIANA	0.001	0.01	264.0
	VEGETAL	28.790	289.63	10848.8	TERRAPLEN	0.163	1.59	7645.2
2220.000	EXC ROCA 2	206.530	2236.72	73155.0	EXC ROCA 1	272.000	2757.44	37902.9
	EXC SUELO 3	324.660	3276.22	68247.6	RELLEN MEDIANA	0.001	0.01	264.0
	VEGETAL	28.436	286.13	11134.9	TERRAPLEN	0.170	1.66	7646.8
2230.000	EXC ROCA 2	175.045	1907.87	75062.8	EXC ROCA 1	260.899	2664.49	40567.4
	EXC SUELO 3	315.827	3202.44	71450.0	RELLEN MEDIANA	0.001	0.01	264.0
	VEGETAL	27.863	281.50	11416.4	TERRAPLEN	0.175	1.73	7648.5
2234.999	EXC ROCA 2	156.632	829.03	75891.9	EXC ROCA 1	254.923	1289.30	41856.7
	EXC SUELO 3	311.212	1567.28	73017.3	VEGETAL	27.579	138.58	11555.0
	TERRAPLEN	0.183	0.90	7649.4				
2235.000	EXC ROCA 2	0.000	0.08	75891.9	EXC ROCA 1	411.550	0.33	41857.0
	EXC SUELO 3	311.212	0.31	73017.6	RELLEN MEDIANA	0.001	0.00	264.0
	VEGETAL	27.579	0.03	11555.0	TERRAPLEN	0.183	0.00	7649.4

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2240.000	EXC ROCA 1	378.734	1975.71	43832.7	EXC SUELO 3	306.272	1543.71	74561.3
	RELLEN MEDIANA	0.001	0.01	264.0	VEGETAL	27.180	136.90	11691.9
	TERRAPLEN	0.186	0.92	7650.4				
2250.000	EXC ROCA 1	290.407	3345.70	47178.4	EXC SUELO 3	297.598	3019.35	77580.7
	RELLEN MEDIANA	0.001	0.01	264.0	VEGETAL	26.509	268.44	11960.4
	TERRAPLEN	0.188	1.87	7652.2				
2260.000	EXC ROCA 1	239.977	2651.92	49830.4	EXC SUELO 3	294.509	2960.54	80541.2
	RELLEN MEDIANA	0.001	0.01	264.0	VEGETAL	27.224	268.66	12229.0
	TERRAPLEN	0.215	2.01	7654.3				
2270.000	EXC ROCA 1	185.686	2128.32	51958.7	EXC SUELO 3	282.916	2887.13	83428.3
	RELLEN ARCENES	0.251	1.26	130.4	VEGETAL	26.371	267.98	12497.0
	TERRAPLEN	0.273	2.44	7656.7				
2270.764	EXC ROCA 1	181.568	140.29	52099.0	EXC SUELO 3	280.999	215.42	83643.7
	RELLEN ARCENES	0.354	0.23	130.7	VEGETAL	26.248	20.10	12517.1
	TERRAPLEN	0.281	0.21	7656.9				
2280.000	EXC ROCA 1	128.611	1432.41	53531.4	EXC SUELO 3	259.582	2496.40	86140.1
	SUEL-EST3 DESM	1.262	5.83	539.5	RELLEN ARCENES	0.660	4.68	135.4
	VEGETAL	24.149	232.74	12749.8	TERRAPLEN	0.223	2.33	7659.2
2289.999	EXC ROCA 1	61.161	948.76	54480.1	EXC SUELO 3	213.550	2365.42	88505.6
	SUEL-EST3 DESM	3.960	26.11	565.6	RELLEN MEDIANA	0.061	0.31	264.3
	RELLEN ARCENES	0.650	6.55	141.9	VEGETAL	21.783	229.64	12979.5
	TERRAPLEN	0.188	2.06	7661.3				
2290.000	EXC ROCA 1	0.000	0.03	54480.2	EXC SUELO 3	280.179	0.25	88505.8
	SUEL-EST3 DESM	7.964	0.01	565.6	RELLEN MEDIANA	0.920	0.00	264.3
	RELLEN ARCENES	1.267	0.00	141.9	VEGETAL	21.783	0.02	12979.5
	TERRAPLEN	0.188	0.00	7661.3				
2300.000	EXC SUELO 3	130.412	2052.95	90558.8	SUEL-EST3 DESM	7.965	79.65	645.2
	RELLEN MEDIANA	0.866	8.93	273.3	RELLEN ARCENES	1.228	12.47	154.4
	VEGETAL	18.568	201.75	13181.2	TERRAPLEN	0.238	2.13	7663.4
2309.999	EXC SUELO 3	19.938	751.68	91310.4	SUEL-EST3 DESM	3.568	57.66	702.9
	SUEL-EST3 TERR	4.471	22.35	866.1	RELLEN MEDIANA	0.816	8.41	281.7
	RELLEN ARCENES	0.651	9.39	163.8	VEGETAL	15.761	171.63	13352.9
	TERRAPLEN	18.726	94.81	7758.2				
2310.000	EXC SUELO 2	22.006	0.01	2198.0	SUEL-EST3 DESM	3.796	0.00	702.9
	SUEL-EST3 TERR	4.242	0.00	866.1	RELLEN MEDIANA	0.816	0.00	281.7
	RELLEN ARCENES	0.651	0.00	163.8	VEGETAL	11.821	0.01	13352.9
	TERRAPLEN	16.866	0.02	7758.2				

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2320.000	EXC SUELO 2	0.000	110.03	2308.0	SUEL-EST3 DESM	0.000	18.98	721.9
	SUEL-EST3 TERR	8.149	61.96	928.0	RELLEN MEDIANA	0.773	7.95	289.6
	RELLEN ARCENES	0.000	3.26	167.0	VEGETAL	12.207	120.14	13473.0
	TERRAPLEN	121.360	691.13	8449.4				
2329.999	SUEL-EST3 TERR	8.153	81.50	1009.5	RELLEN MEDIANA	0.737	7.55	297.2
	VEGETAL	14.518	133.61	13606.6	TERRAPLEN	242.515	1819.19	10268.6
2330.000	EXC SUELO 1	62.912	0.03	1225.3	SUEL-EST3 TERR	8.153	0.01	1009.5
	RELLEN MEDIANA	0.737	0.00	297.2	VEGETAL	14.518	0.01	13606.6
	TERRAPLEN	305.439	0.27	10268.8				
2332.699	EXC SUELO 1	65.639	173.48	1398.8	SUEL-EST3 TERR	8.152	22.00	1031.5
	RELLEN MEDIANA	0.729	1.98	299.1	VEGETAL	15.148	40.03	13646.7
	TERRAPLEN	347.324	880.90	11149.7				
2340.000	EXC SUELO 1	71.716	501.42	1900.2	SUEL-EST3 TERR	8.149	59.51	1091.0
	RELLEN MEDIANA	0.708	5.24	304.4	VEGETAL	16.550	115.71	13762.4
	TERRAPLEN	458.564	2941.89	14091.6				
2350.000	EXC SUELO 1	78.505	751.10	2651.3	SUEL-EST3 TERR	8.144	81.46	1172.5
	RELLEN MEDIANA	0.685	6.97	311.4	VEGETAL	18.117	173.33	13935.7
	TERRAPLEN	543.329	5009.46	19101.1				
2353.343	EXC SUELO 1	77.953	261.52	2912.8	SUEL-EST3 TERR	8.142	27.22	1199.7
	RELLEN MEDIANA	0.679	2.28	313.6	VEGETAL	17.989	60.35	13996.1
	TERRAPLEN	539.649	1810.20	20911.3				
2354.999	EXC SUELO 1	77.220	128.48	3041.3	SUEL-EST3 TERR	8.142	13.48	1213.2
	RELLEN MEDIANA	0.676	1.12	314.8	VEGETAL	17.820	29.65	14025.7
	TERRAPLEN	526.745	882.97	21794.3				
2355.000	EXC SUELO 1	0.000	0.04	3041.3	SUEL-EST3 TERR	8.141	0.01	1213.2
	RELLEN MEDIANA	0.676	0.00	314.8	VEGETAL	17.820	0.02	14025.7
	TERRAPLEN	449.517	0.49	21794.8				
2360.000	SUEL-EST3 TERR	8.139	40.70	1253.9	RELLEN MEDIANA	0.667	3.36	318.1
	VEGETAL	16.801	86.55	14112.3	TERRAPLEN	374.825	2060.85	23855.6
2369.999	SUEL-EST3 TERR	8.134	81.36	1335.3	RELLEN MEDIANA	0.648	6.57	324.7
	VEGETAL	15.461	161.29	14273.6	TERRAPLEN	186.806	2807.88	26663.5
2370.000	EXC SUELO 1	25.767	0.01	3041.3	SUEL-EST3 TERR	8.134	0.01	1335.3
	RELLEN MEDIANA	0.648	0.00	324.7	VEGETAL	15.460	0.02	14273.6
	TERRAPLEN	212.559	0.20	26663.7				
2373.988	EXC SUELO 1	25.455	102.14	3143.5	SUEL-EST3 TERR	8.132	32.44	1367.7
	RELLEN MEDIANA	0.640	2.57	327.3	VEGETAL	15.273	61.28	14334.9
	TERRAPLEN	197.187	817.03	27480.7				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2380.000	EXC SUELO 1	24.520	150.22	3293.7	SUEL-EST3 TERR	8.132	48.89	1416.6
	RELLEN MEDIANA	0.629	3.81	331.1	VEGETAL	14.712	90.14	14425.0
	TERRAPLEN	191.825	1169.37	28650.1				
2389.999	EXC SUELO 1	26.750	256.32	3550.0	EXC SUELO 2	11.100	55.49	2363.5
	SUEL-EST3 DESM	1.481	7.40	729.3	SUEL-EST3 TERR	6.567	73.49	1490.1
	RELLEN MEDIANA	0.610	6.19	337.3	RELLEN ARCENES	0.641	3.21	170.2
	VEGETAL	16.050	153.79	14578.8	TERRAPLEN	142.907	1673.49	30323.6
2390.000	EXC SUELO 1	0.000	0.01	3550.0	EXC SUELO 2	17.091	0.01	2363.5
	SUEL-EST3 DESM	1.920	0.00	729.3	SUEL-EST3 TERR	6.128	0.01	1490.1
	RELLEN MEDIANA	0.610	0.00	337.3	RELLEN ARCENES	0.641	0.00	170.2
	VEGETAL	16.050	0.02	14578.8	TERRAPLEN	122.149	0.13	30323.7
2400.000	EXC SUELO 2	16.044	165.68	2529.2	SUEL-EST3 DESM	1.548	17.34	746.6
	SUEL-EST3 TERR	6.500	63.14	1553.2	RELLEN MEDIANA	0.591	6.01	343.3
	RELLEN ARCENES	0.641	6.41	176.6	VEGETAL	15.837	159.44	14738.3
	TERRAPLEN	154.783	1384.66	31708.4				
2410.000	EXC SUELO 2	9.619	128.32	2657.5	SUEL-EST3 DESM	1.481	15.15	761.8
	SUEL-EST3 TERR	6.567	65.34	1618.6	RELLEN MEDIANA	0.572	5.82	349.1
	RELLEN ARCENES	0.641	6.41	183.1	VEGETAL	15.028	154.32	14892.6
	TERRAPLEN	165.066	1599.24	33307.6				
2420.000	EXC SUELO 2	0.247	49.33	2706.9	SUEL-EST3 DESM	0.100	7.91	769.7
	SUEL-EST3 TERR	7.458	70.13	1688.7	RELLEN MEDIANA	0.553	5.63	354.7
	RELLEN ARCENES	0.147	3.94	187.0	VEGETAL	12.881	139.54	15032.1
	TERRAPLEN	146.493	1557.79	34865.4				
2430.000	EXC SUELO 2	0.240	2.43	2709.3	SUEL-EST3 DESM	0.172	1.36	771.0
	SUEL-EST3 TERR	7.386	74.22	1762.9	RELLEN MEDIANA	0.534	5.44	360.1
	RELLEN ARCENES	0.060	1.04	188.0	VEGETAL	12.612	127.46	15159.6
	TERRAPLEN	134.603	1405.48	36270.9				
2440.000	EXC SUELO 2	7.556	38.98	2748.3	SUEL-EST3 DESM	1.046	6.09	777.1
	SUEL-EST3 TERR	7.001	71.94	1834.9	RELLEN MEDIANA	0.515	5.25	365.4
	RELLEN ARCENES	0.641	3.51	191.6	VEGETAL	14.323	134.67	15294.3
	TERRAPLEN	131.795	1331.99	37602.9				
2450.000	EXC SUELO 2	12.187	98.72	2847.0	SUEL-EST3 DESM	1.468	12.57	789.7
	SUEL-EST3 TERR	6.580	67.90	1902.8	RELLEN MEDIANA	0.496	5.06	370.5
	RELLEN ARCENES	0.641	6.41	198.0	VEGETAL	14.047	141.85	15436.1
	TERRAPLEN	105.401	1185.98	38788.9				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2460.000	EXC SUELO 2	34.718	234.52	3081.5	SUEL-EST3 DESM	2.851	21.59	811.3
	SUEL-EST3 TERR	5.196	58.88	1961.6	RELLEN MEDIANA	0.477	4.87	375.3
	RELLEN ARCENES	0.641	6.41	204.4	VEGETAL	14.319	141.83	15578.0
	TERRAPLEN	63.878	846.39	39635.3				
2464.999	EXC SUELO 2	60.064	236.91	3318.4	SUEL-EST3 DESM	3.982	17.08	828.4
	SUEL-EST3 TERR	4.066	23.15	1984.8	RELLEN MEDIANA	0.468	2.36	377.7
	RELLEN ARCENES	0.641	3.21	207.6	VEGETAL	14.123	71.09	15649.1
	TERRAPLEN	42.003	264.65	39899.9				
2465.000	EXC ROCA 1	55.244	0.03	54480.2	EXC SUELO 2	0.000	0.03	3318.4
	SUEL-EST3 TERR	4.065	0.00	1984.8	RELLEN MEDIANA	0.266	0.00	377.7
	VEGETAL	14.123	0.01	15649.1	TERRAPLEN	41.999	0.04	39900.0
2470.000	EXC ROCA 1	83.793	347.59	54827.8	SUEL-EST3 TERR	3.576	19.10	2003.9
	RELLEN MEDIANA	0.000	0.67	378.4	VEGETAL	13.867	69.98	15719.0
	TERRAPLEN	25.055	167.64	40067.6				
2480.000	EXC ROCA 1	149.740	1167.67	55995.4	SUEL-EST3 TERR	1.588	25.82	2029.7
	VEGETAL	14.117	139.92	15859.0	TERRAPLEN	3.532	142.94	40210.5
2490.000	EXC ROCA 1	240.508	1951.24	57946.7	SUEL-EST3 TERR	0.000	7.94	2037.7
	RELLEN ARCENES	0.018	0.09	207.7	VEGETAL	14.683	144.00	16003.0
	TERRAPLEN	0.065	17.99	40228.5				
2494.999	EXC ROCA 1	274.207	1286.53	59233.2	RELLEN ARCENES	0.000	0.05	207.7
	VEGETAL	15.369	75.12	16078.1	TERRAPLEN	0.139	0.51	40229.0
2495.000	EXC ROCA 2	142.201	0.07	75892.0	EXC ROCA 1	132.010	0.20	59233.4
	VEGETAL	15.370	0.02	16078.1	TERRAPLEN	0.139	0.00	40229.0
2500.000	EXC ROCA 2	151.890	735.23	76627.2	EXC ROCA 1	135.184	667.99	59901.4
	VEGETAL	15.701	77.68	16155.8	TERRAPLEN	0.152	0.73	40229.8
2510.000	EXC ROCA 2	121.124	1365.07	77992.3	EXC ROCA 1	122.296	1287.40	61188.8
	VEGETAL	14.576	151.38	16307.2	TERRAPLEN	0.158	1.55	40231.3
2514.999	EXC ROCA 2	101.086	555.41	78547.7	EXC ROCA 1	113.033	588.20	61777.0
	VEGETAL	13.679	70.62	16377.8	TERRAPLEN	0.136	0.73	40232.0
2515.000	EXC ROCA 2	0.000	0.05	78547.8	EXC ROCA 1	0.000	0.06	61777.1
	EXC SUELO 3	218.851	0.11	91310.6	HM-20	3.933	0.00	52.2
	RELLEN MEDIANA	0.211	0.00	378.4	RELLEN ARCENES	0.636	0.00	207.7
	VEGETAL	13.678	0.01	16377.8	TERRAPLEN	0.095	0.00	40232.0
2520.000	EXC SUELO 3	195.322	1035.43	92346.0	HM-20	0.000	9.83	62.0
	SUEL-EST3 DESM	7.473	18.68	847.0	RELLEN MEDIANA	0.364	1.44	379.8
	RELLEN ARCENES	1.000	4.09	211.8	VEGETAL	12.660	65.85	16443.6
	TERRAPLEN	0.058	0.38	40232.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2529.999	EXC SUELO 3	132.312	1638.00	93984.0	SUEL-EST3 DESM	6.467	69.69	916.7
	SUEL-EST3 TERR	1.579	7.89	2045.6	RELLEN MEDIANA	0.345	3.54	383.3
	RELLEN ARCENES	0.641	8.21	220.0	VEGETAL	13.287	129.73	16573.4
	TERRAPLEN	5.555	28.06	40260.5				
2530.000	EXC ROCA 1	124.851	0.06	61777.1	EXC SUELO 3	0.000	0.07	93984.1
	SUEL-EST3 TERR	1.579	0.00	2045.6	VEGETAL	13.288	0.01	16573.4
	TERRAPLEN	5.556	0.01	40260.5				
2539.999	EXC ROCA 1	67.390	961.11	62738.2	SUEL-EST3 TERR	3.536	25.57	2071.1
	VEGETAL	14.856	140.71	16714.1	TERRAPLEN	42.098	238.25	40498.7
2540.000	EXC ROCA 1	0.000	0.03	62738.3	EXC SUELO 2	72.861	0.04	3318.5
	SUEL-EST3 DESM	4.510	0.00	916.7	SUEL-EST3 TERR	3.536	0.00	2071.1
	RELLEN MEDIANA	0.326	0.00	383.3	RELLEN ARCENES	0.641	0.00	220.0
	VEGETAL	14.856	0.01	16714.1	TERRAPLEN	42.101	0.04	40498.8
2550.000	EXC SUELO 2	28.510	506.86	3825.3	SUEL-EST3 DESM	2.737	36.23	953.0
	SUEL-EST3 TERR	5.309	44.23	2115.4	RELLEN MEDIANA	0.308	3.17	386.5
	RELLEN ARCENES	0.641	6.41	226.4	VEGETAL	14.889	148.73	16862.8
	TERRAPLEN	101.085	715.93	41214.7				
2560.000	EXC SUELO 2	0.040	142.75	3968.1	SUEL-EST3 DESM	0.000	13.68	966.7
	SUEL-EST3 TERR	7.826	65.68	2181.0	RELLEN MEDIANA	0.290	2.99	389.5
	RELLEN ARCENES	0.153	3.97	230.4	VEGETAL	13.675	142.82	17005.6
	TERRAPLEN	190.927	1460.06	42674.8				
2569.160	EXC SUELO 2	0.000	0.18	3968.3	SUEL-EST3 TERR	8.130	73.08	2254.1
	RELLEN MEDIANA	0.277	2.60	392.1	RELLEN ARCENES	0.000	0.70	231.1
	VEGETAL	15.470	133.48	17139.1	TERRAPLEN	299.252	2245.02	44919.8
2570.000	SUEL-EST3 TERR	8.130	6.83	2260.9	RELLEN MEDIANA	0.276	0.23	392.3
	VEGETAL	15.645	13.07	17152.2	TERRAPLEN	309.825	255.81	45175.6
2580.000	SUEL-EST3 TERR	8.134	81.32	2342.3	RELLEN MEDIANA	0.263	2.69	395.0
	VEGETAL	17.724	166.85	17319.0	TERRAPLEN	447.598	3787.11	48962.7
2589.999	SUEL-EST3 TERR	8.139	81.36	2423.6	RELLEN MEDIANA	0.253	2.58	397.6
	VEGETAL	19.762	187.41	17506.5	TERRAPLEN	573.434	5104.65	54067.4
2590.000	EXC SUELO 1	72.460	0.04	3550.1	SUEL-EST3 TERR	8.139	0.01	2423.6
	RELLEN MEDIANA	0.253	0.00	397.6	VEGETAL	19.762	0.02	17506.5
	TERRAPLEN	645.904	0.61	54068.0				
2592.303	EXC SUELO 1	71.612	165.90	3716.0	SUEL-EST3 TERR	8.140	18.74	2442.4
	RELLEN MEDIANA	0.251	0.58	398.2	VEGETAL	19.531	45.25	17551.7
	TERRAPLEN	662.667	1506.82	55574.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2600.000	EXC SUELO 1	74.917	563.92	4279.9	SUEL-EST3 TERR	8.143	62.66	2505.0
	RELLEN MEDIANA	0.244	1.90	400.1	VEGETAL	20.432	153.80	17705.5
	TERRAPLEN	719.417	5318.95	60893.7				
2600.000	EXC SUELO 1	74.917	0.00	4279.9	SUEL-EST3 TERR	8.143	0.00	2505.0
	RELLEN MEDIANA	0.244	0.00	400.1	VEGETAL	20.432	0.00	17705.5
	TERRAPLEN	719.417	0.00	60893.7				
2610.000	EXC SUELO 1	74.906	749.12	5029.0	SUEL-EST3 TERR	8.147	81.45	2586.5
	RELLEN MEDIANA	0.238	2.41	402.5	VEGETAL	20.429	204.31	17909.8
	TERRAPLEN	729.753	7245.85	68139.6				
2614.999	EXC SUELO 1	74.174	372.63	5401.6	SUEL-EST3 TERR	8.149	40.73	2627.2
	RELLEN MEDIANA	0.236	1.18	403.7	VEGETAL	20.230	101.63	18011.4
	TERRAPLEN	706.356	3589.55	71729.1				
2615.000	EXC SUELO 1	0.000	0.04	5401.7	SUEL-EST3 TERR	8.149	0.01	2627.2
	RELLEN MEDIANA	0.236	0.00	403.7	VEGETAL	20.230	0.02	18011.5
	TERRAPLEN	632.176	0.67	71729.8				
2615.446	SUEL-EST3 TERR	8.150	3.63	2630.9	RELLEN MEDIANA	0.236	0.11	403.8
	VEGETAL	20.206	9.02	18020.5	TERRAPLEN	628.933	281.23	72011.0
2620.000	SUEL-EST3 TERR	8.149	37.11	2668.0	RELLEN MEDIANA	0.234	1.07	404.8
	VEGETAL	19.901	91.32	18111.8	TERRAPLEN	588.009	2770.98	74782.0
2630.000	SUEL-EST3 TERR	8.145	81.47	2749.4	RELLEN MEDIANA	0.233	2.33	407.2
	VEGETAL	18.322	191.11	18302.9	TERRAPLEN	470.610	5293.10	80075.1
2640.000	SUEL-EST3 TERR	8.130	81.38	2830.8	RELLEN MEDIANA	0.233	2.33	409.5
	VEGETAL	16.494	174.08	18477.0	TERRAPLEN	356.390	4135.00	84210.1
2650.000	SUEL-EST3 TERR	8.125	81.27	2912.1	RELLEN MEDIANA	0.235	2.34	411.9
	VEGETAL	15.484	159.89	18636.9	TERRAPLEN	271.640	3140.15	87350.3
2660.000	EXC SUELO 2	0.214	1.07	3969.3	SUEL-EST3 DESM	0.143	0.71	967.4
	SUEL-EST3 TERR	7.407	77.66	2989.7	RELLEN MEDIANA	0.237	2.36	414.2
	RELLEN ARCENES	0.069	0.34	231.5	VEGETAL	14.285	148.85	18785.7
	TERRAPLEN	195.858	2337.49	89687.8				
2670.000	EXC SUELO 2	11.753	59.83	4029.2	SUEL-EST3 DESM	1.674	9.08	976.5
	SUEL-EST3 TERR	6.483	69.45	3059.2	RELLEN MEDIANA	0.112	1.74	416.0
	RELLEN ARCENES	0.655	3.62	235.1	VEGETAL	15.409	148.47	18934.2
	TERRAPLEN	135.488	1656.73	91344.5				
2680.000	EXC SUELO 2	34.302	230.27	4259.5	SUEL-EST3 DESM	2.721	21.98	998.4
	SUEL-EST3 TERR	5.430	59.56	3118.8	RELLEN MEDIANA	0.112	1.12	417.1
	RELLEN ARCENES	0.664	6.60	241.7	VEGETAL	15.090	152.50	19086.7
	TERRAPLEN	111.230	1233.59	92578.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2684.874	EXC SUELO 2	50.316	206.21	4465.7	SUEL-EST3 DESM	3.370	14.84	1013.3
	SUEL-EST3 TERR	4.777	24.87	3143.6	RELLEN MEDIANA	0.112	0.55	417.6
	RELLEN ARCENES	0.668	3.25	244.9	VEGETAL	15.229	73.89	19160.6
	TERRAPLEN	101.287	517.90	93096.0				
2689.999	EXC SUELO 2	58.221	278.13	4743.8	SUEL-EST3 DESM	3.701	18.12	1031.4
	SUEL-EST3 TERR	4.446	23.63	3167.3	RELLEN MEDIANA	0.112	0.57	418.2
	RELLEN ARCENES	0.668	3.43	248.3	VEGETAL	15.343	78.34	19238.9
	TERRAPLEN	90.701	491.97	93587.9				
2690.000	EXC ROCA 1	53.851	0.03	62738.3	EXC SUELO 2	0.000	0.03	4743.8
	SUEL-EST3 TERR	4.446	0.00	3167.3	RELLEN MEDIANA	0.112	0.00	418.2
	VEGETAL	15.343	0.02	19238.9	TERRAPLEN	90.699	0.09	93588.0
2700.000	EXC ROCA 1	111.271	825.61	63563.9	SUEL-EST3 TERR	2.735	35.90	3203.2
	RELLEN MEDIANA	0.001	0.56	418.8	VEGETAL	14.629	149.86	19388.8
	TERRAPLEN	31.508	611.03	94199.1				
2710.000	EXC ROCA 1	239.222	1752.47	65316.4	SUEL-EST3 TERR	0.516	16.26	3219.4
	VEGETAL	16.495	155.62	19544.4	TERRAPLEN	0.340	159.24	94358.3
2714.999	EXC ROCA 1	334.614	1434.30	66750.7	SUEL-EST3 TERR	0.000	1.29	3220.7
	VEGETAL	17.927	86.04	19630.5	TERRAPLEN	0.094	1.08	94359.4
2715.000	EXC ROCA 2	179.919	0.09	78547.9	EXC ROCA 1	154.712	0.24	66750.9
	VEGETAL	17.927	0.02	19630.5	TERRAPLEN	0.094	0.00	94359.4
2720.000	EXC ROCA 2	261.456	1103.44	79651.3	EXC ROCA 1	175.322	825.08	67576.0
	VEGETAL	18.837	91.91	19722.4	TERRAPLEN	0.087	0.45	94359.8
2730.000	EXC ROCA 2	432.025	3467.41	83118.7	EXC ROCA 1	194.688	1850.05	69426.1
	VEGETAL	20.481	196.59	19919.0	TERRAPLEN	0.084	0.86	94360.7
2740.000	EXC ROCA 2	588.556	5102.91	88221.6	EXC ROCA 1	208.071	2013.80	71439.9
	VEGETAL	21.780	211.30	20130.3	TERRAPLEN	0.081	0.83	94361.5
2750.000	EXC ROCA 2	699.349	6439.53	94661.1	EXC ROCA 1	218.699	2133.85	73573.7
	VEGETAL	22.818	222.99	20353.3	TERRAPLEN	0.078	0.80	94362.3
2760.000	EXC ROCA 2	802.330	7508.40	102169.5	EXC ROCA 1	223.861	2212.80	75786.5
	VEGETAL	23.366	230.92	20584.2	TERRAPLEN	0.081	0.80	94363.1
2770.000	EXC ROCA 2	934.018	8681.74	110851.3	EXC ROCA 1	229.252	2265.56	78052.1
	VEGETAL	23.902	236.34	20820.5	TERRAPLEN	0.081	0.81	94363.9
2780.000	EXC ROCA 2	1035.874	9849.46	120700.7	EXC ROCA 1	237.933	2335.93	80388.0
	VEGETAL	24.771	243.36	21063.9	TERRAPLEN	0.081	0.81	94364.8
2790.000	EXC ROCA 2	1109.054	10724.64	131425.4	EXC ROCA 1	241.898	2399.16	82787.1
	VEGETAL	25.129	249.50	21313.4	TERRAPLEN	0.076	0.79	94365.5
2800.000	EXC ROCA 2	1121.242	11151.48	142576.9	EXC ROCA 1	243.317	2426.07	85213.2
	VEGETAL	25.319	252.24	21565.6	TERRAPLEN	0.083	0.80	94366.3

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2810.000	EXC ROCA 2	1033.451	10773.46	153350.3	EXC ROCA 1	245.818	2445.68	87658.9
	VEGETAL	25.636	254.78	21820.4	TERRAPLEN	0.087	0.85	94367.2
2820.000	EXC ROCA 2	901.683	9675.67	163026.0	EXC ROCA 1	245.156	2454.87	90113.8
	VEGETAL	25.620	256.28	22076.7	TERRAPLEN	0.089	0.88	94368.1
2830.000	EXC ROCA 2	785.694	8436.88	171462.9	EXC ROCA 1	243.155	2441.56	92555.3
	VEGETAL	25.507	255.63	22332.3	TERRAPLEN	0.098	0.93	94369.0
2840.000	EXC ROCA 2	687.924	7368.09	178831.0	EXC ROCA 1	238.887	2410.21	94965.5
	VEGETAL	25.143	253.25	22585.6	TERRAPLEN	0.101	0.99	94370.0
2850.000	EXC ROCA 2	646.981	6674.52	185505.5	EXC ROCA 1	238.071	2384.79	97350.3
	VEGETAL	25.133	251.38	22837.0	TERRAPLEN	0.110	1.06	94371.0
2860.000	EXC ROCA 2	679.205	6630.93	192136.4	EXC ROCA 1	240.361	2392.16	99742.5
	VEGETAL	25.242	251.88	23088.8	TERRAPLEN	0.099	1.05	94372.1
2870.000	EXC ROCA 2	769.569	7243.87	199380.3	EXC ROCA 1	243.135	2417.48	102160.0
	VEGETAL	25.520	253.81	23342.7	TERRAPLEN	0.099	0.99	94373.1
2880.000	EXC ROCA 2	881.288	8254.28	207634.6	EXC ROCA 1	251.268	2472.01	104632.0
	VEGETAL	26.251	258.86	23601.5	TERRAPLEN	0.092	0.95	94374.0
2890.000	EXC ROCA 2	959.849	9205.68	216840.2	EXC ROCA 1	257.491	2543.79	107175.8
	VEGETAL	26.860	265.55	23867.1	TERRAPLEN	0.091	0.91	94374.9
2900.000	EXC ROCA 2	1031.355	9956.02	226796.3	EXC ROCA 1	263.619	2605.55	109781.3
	VEGETAL	27.468	271.64	24138.7	TERRAPLEN	0.092	0.92	94375.9
2900.000	EXC ROCA 2	1031.355	0.00	226796.3	EXC ROCA 1	263.619	0.00	109781.3
	VEGETAL	27.468	0.00	24138.7	TERRAPLEN	0.092	0.00	94375.9
2910.000	EXC ROCA 2	1137.960	10846.57	237642.8	EXC ROCA 1	270.014	2668.17	112449.5
	VEGETAL	28.012	277.40	24416.1	TERRAPLEN	0.084	0.88	94376.7
2920.000	EXC ROCA 2	1260.622	11992.91	249635.7	EXC ROCA 1	276.782	2733.98	115183.5
	VEGETAL	28.760	283.86	24700.0	TERRAPLEN	0.090	0.87	94377.6
2930.000	EXC ROCA 2	1394.291	13274.57	262910.3	EXC ROCA 1	283.216	2799.99	117983.5
	VEGETAL	29.385	290.73	24990.7	TERRAPLEN	0.086	0.88	94378.5
2940.000	EXC ROCA 2	1492.304	14432.98	277343.3	EXC ROCA 1	285.777	2844.96	120828.4
	VEGETAL	29.668	295.27	25286.0	TERRAPLEN	0.091	0.88	94379.4
2950.000	EXC ROCA 2	1533.234	15127.69	292471.0	EXC ROCA 1	287.354	2865.65	123694.1
	VEGETAL	29.818	297.43	25583.4	TERRAPLEN	0.090	0.90	94380.3
2960.000	EXC ROCA 2	1519.124	15261.79	307732.8	EXC ROCA 1	287.263	2873.09	126567.2
	VEGETAL	29.777	297.98	25881.4	TERRAPLEN	0.090	0.90	94381.2
2963.392	EXC ROCA 2	1504.042	5127.29	312860.1	EXC ROCA 1	287.020	973.98	127541.2
	VEGETAL	29.749	100.96	25982.3	TERRAPLEN	0.090	0.31	94381.5
2970.000	EXC ROCA 2	1463.703	9805.43	322665.5	EXC ROCA 1	286.259	1894.11	129435.3
	VEGETAL	29.682	196.36	26178.7	TERRAPLEN	0.088	0.59	94382.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2980.000	EXC ROCA 2	1431.379	14475.41	337140.9	EXC ROCA 1	284.489	2853.74	132289.0
	VEGETAL	29.489	295.85	26474.5	TERRAPLEN	0.086	0.87	94382.9
2990.000	EXC ROCA 2	1456.130	14437.54	351578.4	EXC ROCA 1	284.101	2842.95	135132.0
	VEGETAL	29.436	294.62	26769.2	TERRAPLEN	0.085	0.85	94383.8
3000.000	EXC ROCA 2	1511.666	14838.98	366417.4	EXC ROCA 1	287.657	2858.79	137990.7
	VEGETAL	29.779	296.07	27065.2	TERRAPLEN	0.084	0.84	94384.6
3004.571	EXC ROCA 2	1540.548	6975.83	373393.2	EXC ROCA 1	287.505	1314.53	139305.3
	VEGETAL	29.766	136.09	27201.3	TERRAPLEN	0.085	0.38	94385.0
3010.000	EXC ROCA 2	1541.546	8366.34	381759.6	EXC ROCA 1	284.701	1553.25	140858.5
	RELLEN MEDIANA	0.002	0.01	418.9	VEGETAL	29.546	161.00	27362.3
	TERRAPLEN	0.090	0.47	94385.5				
3020.000	EXC ROCA 2	1438.398	14899.72	396659.3	EXC ROCA 1	279.079	2818.90	143677.4
	RELLEN MEDIANA	0.000	0.01	418.9	VEGETAL	29.008	292.77	27655.1
	TERRAPLEN	0.091	0.91	94386.4				
3030.000	EXC ROCA 2	1287.863	13631.31	410290.6	EXC ROCA 1	271.282	2751.81	146429.2
	VEGETAL	28.383	286.96	27942.1	TERRAPLEN	0.094	0.93	94387.3
3032.821	EXC ROCA 2	1242.794	3569.49	413860.1	EXC ROCA 1	269.806	763.20	147192.4
	VEGETAL	28.241	79.87	28021.9	TERRAPLEN	0.093	0.26	94387.6
3040.000	EXC ROCA 2	1178.946	8692.83	422552.9	EXC ROCA 1	264.283	1917.11	149109.6
	VEGETAL	27.726	200.89	28222.8	TERRAPLEN	0.103	0.70	94388.3
3050.000	EXC ROCA 2	1131.441	11551.93	434104.9	EXC ROCA 1	260.216	2622.49	151732.1
	VEGETAL	27.054	273.90	28496.7	TERRAPLEN	0.085	0.94	94389.2
3055.964	EXC ROCA 2	1089.404	6622.56	440727.4	EXC ROCA 1	253.462	1531.79	153263.8
	VEGETAL	26.407	159.42	28656.1	TERRAPLEN	0.090	0.52	94389.8
3060.000	EXC ROCA 2	1056.939	4331.32	445058.8	EXC ROCA 1	249.712	1015.40	154279.2
	VEGETAL	25.970	105.70	28761.8	TERRAPLEN	0.084	0.35	94390.1
3070.000	EXC ROCA 2	935.280	9961.10	455019.8	EXC ROCA 1	238.821	2442.66	156721.9
	VEGETAL	25.018	254.94	29016.8	TERRAPLEN	0.093	0.89	94391.0
3079.107	EXC ROCA 2	813.675	7963.86	462983.7	EXC ROCA 1	232.120	2144.43	158866.3
	VEGETAL	24.232	224.26	29241.0	TERRAPLEN	0.082	0.80	94391.8
3080.000	EXC ROCA 2	802.613	721.67	463705.4	EXC ROCA 1	231.213	206.88	159073.2
	VEGETAL	24.137	21.60	29262.6	TERRAPLEN	0.081	0.07	94391.9
3090.000	EXC ROCA 2	658.034	7303.24	471008.6	EXC ROCA 1	223.674	2274.43	161347.6
	VEGETAL	23.379	237.58	29500.2	TERRAPLEN	0.087	0.84	94392.7
3099.999	EXC ROCA 2	520.173	5890.45	476899.1	EXC ROCA 1	212.153	2178.92	163526.6
	VEGETAL	22.141	227.58	29727.8	TERRAPLEN	0.077	0.82	94393.5

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3100.000	EXC ROCA 2	0.000	0.26	476899.3	EXC ROCA 1	0.000	0.11	163526.7
	EXC SUELO 3	737.364	0.37	93984.4	HM-20	4.158	0.00	62.0
	RELLEN MEDIANA	0.141	0.00	418.9	RELLEN ARCENES	0.753	0.00	248.3
	VEGETAL	22.141	0.02	29727.8	TERRAPLEN	0.077	0.00	94393.5
3110.000	EXC SUELO 3	535.085	6362.24	100346.7	HM-20	4.200	41.79	103.8
	RELLEN MEDIANA	0.141	1.41	420.3	RELLEN ARCENES	0.753	7.53	255.9
	VEGETAL	20.457	212.99	29940.8	TERRAPLEN	0.081	0.79	94394.3
3114.999	EXC SUELO 3	444.501	2448.47	102795.1	HM-20	4.221	21.05	124.9
	RELLEN MEDIANA	0.141	0.70	421.1	RELLEN ARCENES	0.753	3.77	259.6
	VEGETAL	19.740	100.47	30041.3	TERRAPLEN	0.089	0.43	94394.8
3115.000	EXC ROCA 2	267.250	0.13	476899.5	EXC ROCA 1	172.124	0.09	163526.8
	EXC SUELO 3	0.000	0.22	102795.4	VEGETAL	19.740	0.02	30041.3
	TERRAPLEN	0.089	0.00	94394.8				
3120.000	EXC ROCA 2	214.867	1205.29	478104.8	EXC ROCA 1	152.765	812.22	164339.0
	VEGETAL	16.506	90.62	30131.9	TERRAPLEN	0.094	0.46	94395.2
3120.000	EXC ROCA 2	214.867	0.00	478104.8	EXC ROCA 1	152.765	0.00	164339.0
	VEGETAL	16.506	0.00	30131.9	TERRAPLEN	0.094	0.00	94395.2
3130.000	EXC ROCA 2	188.704	2017.85	480122.6	EXC ROCA 1	137.603	1451.84	165790.8
	VEGETAL	15.511	160.09	30292.0	TERRAPLEN	0.110	1.02	94396.2
3140.000	EXC ROCA 2	228.160	2084.32	482206.9	EXC ROCA 1	139.514	1385.59	167176.4
	VEGETAL	15.418	154.65	30446.7	TERRAPLEN	0.096	1.03	94397.3
3150.000	EXC ROCA 2	226.713	2274.36	484481.3	EXC ROCA 1	138.961	1392.37	168568.8
	VEGETAL	15.342	153.80	30600.5	TERRAPLEN	0.120	1.08	94398.3
3159.999	EXC ROCA 2	121.944	1743.11	486224.4	EXC ROCA 1	111.974	1254.55	169823.3
	VEGETAL	13.286	143.12	30743.6	TERRAPLEN	0.053	0.87	94399.2
3160.000	EXC ROCA 2	0.000	0.06	486224.5	EXC ROCA 1	233.907	0.17	169823.5
	VEGETAL	13.285	0.01	30743.6	TERRAPLEN	0.053	0.00	94399.2
3170.000	EXC ROCA 1	110.093	1720.00	171543.5	SUEL-EST3 TERR	2.078	10.39	3231.1
	VEGETAL	13.406	133.46	30877.0	TERRAPLEN	8.626	43.40	94442.6
3171.571	EXC ROCA 1	88.241	155.79	171699.3	SUEL-EST3 TERR	2.763	3.80	3234.9
	VEGETAL	13.567	21.19	30898.2	TERRAPLEN	14.912	18.49	94461.1
3174.999	EXC ROCA 1	52.398	241.06	171940.3	SUEL-EST3 TERR	4.070	11.71	3246.6
	RELLEN MEDIANA	0.151	0.26	421.3	VEGETAL	13.818	46.94	30945.2
	TERRAPLEN	35.108	85.73	94546.8				
3175.000	EXC ROCA 1	0.000	0.03	171940.4	EXC SUELO 2	58.137	0.03	4743.9
	SUEL-EST3 DESM	5.025	0.00	1031.4	SUEL-EST3 TERR	4.070	0.00	3246.6
	RELLEN MEDIANA	0.233	0.00	421.3	RELLEN ARCENES	0.641	0.00	259.6
	VEGETAL	13.818	0.01	30945.2	TERRAPLEN	35.115	0.04	94546.9

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3180.000	EXC SUELO 2	35.640	234.44	4978.3	SUEL-EST3 DESM	2.995	20.05	1051.5
	SUEL-EST3 TERR	6.100	25.43	3272.1	RELLEN MEDIANA	0.233	1.16	422.5
	RELLEN ARCENES	0.642	3.21	262.9	VEGETAL	15.160	72.45	31017.6
	TERRAPLEN	88.855	309.93	94856.8				
3180.000	EXC SUELO 2	35.640	0.00	4978.3	SUEL-EST3 DESM	2.995	0.00	1051.5
	SUEL-EST3 TERR	6.100	0.00	3272.1	RELLEN MEDIANA	0.233	0.00	422.5
	RELLEN ARCENES	0.642	0.00	262.9	VEGETAL	15.160	0.00	31017.6
	TERRAPLEN	88.855	0.00	94856.8				
3190.000	EXC SUELO 2	51.138	433.89	5412.2	SUEL-EST3 DESM	3.564	32.80	1084.3
	SUEL-EST3 TERR	5.533	58.16	3330.2	RELLEN MEDIANA	0.233	2.33	424.8
	RELLEN ARCENES	0.641	6.42	269.3	VEGETAL	15.700	154.30	31171.9
	TERRAPLEN	88.733	887.94	95744.7				
3199.999	EXC SUELO 2	88.601	698.62	6110.8	SUEL-EST3 DESM	5.642	46.02	1130.3
	SUEL-EST3 TERR	3.454	44.93	3375.1	RELLEN MEDIANA	0.232	2.33	427.1
	RELLEN ARCENES	0.641	6.41	275.7	VEGETAL	14.743	152.20	31324.1
	TERRAPLEN	24.964	568.43	96313.2				
3200.000	EXC SUELO 3	85.487	0.04	102795.4	EXC SUELO 2	0.000	0.04	6110.9
	SUEL-EST3 DESM	5.519	0.01	1130.3	SUEL-EST3 TERR	3.577	0.00	3375.1
	RELLEN MEDIANA	0.233	0.00	427.1	RELLEN ARCENES	0.641	0.00	275.7
	VEGETAL	19.657	0.02	31324.2	TERRAPLEN	26.756	0.03	96313.2
3210.000	EXC SUELO 3	147.780	1166.33	103961.7	SUEL-EST3 DESM	8.332	69.26	1199.5
	SUEL-EST3 TERR	0.191	18.84	3394.0	RELLEN MEDIANA	0.233	2.33	429.5
	RELLEN ARCENES	1.044	8.43	284.1	VEGETAL	20.701	201.79	31525.9
	TERRAPLEN	0.353	135.54	96448.7				
3219.999	EXC SUELO 3	261.726	2047.33	106009.1	SUEL-EST3 DESM	9.012	86.71	1286.3
	SUEL-EST3 TERR	0.000	0.96	3394.9	RELLEN MEDIANA	0.233	2.33	431.8
	RELLEN ARCENES	1.283	11.63	295.7	VEGETAL	23.583	221.40	31747.3
	TERRAPLEN	0.216	2.84	96451.6				
3220.000	EXC ROCA 1	87.861	0.04	171940.4	EXC SUELO 3	167.313	0.21	106009.3
	SUEL-EST3 DESM	3.323	0.01	1286.3	RELLEN ARCENES	0.641	0.00	295.7
	VEGETAL	23.583	0.02	31747.4	TERRAPLEN	0.216	0.00	96451.6
3230.000	EXC ROCA 1	160.500	1241.81	173182.2	EXC SUELO 3	196.711	1820.12	107829.4
	SUEL-EST3 DESM	0.000	16.61	1302.9	RELLEN ARCENES	0.000	3.21	299.0
	VEGETAL	24.793	241.88	31989.2	TERRAPLEN	0.194	2.05	96453.6
3240.000	EXC ROCA 1	230.600	1955.50	175137.7	EXC SUELO 3	220.806	2087.59	109917.0
	VEGETAL	30.119	274.56	32263.8	TERRAPLEN	0.307	2.50	96456.1
3250.000	EXC ROCA 1	315.802	2732.01	177869.7	EXC SUELO 3	236.144	2284.75	112201.7
	VEGETAL	30.916	305.18	32569.0	TERRAPLEN	0.348	3.27	96459.4

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3259.999	EXC ROCA 1	433.508	3746.18	181615.9	EXC SUELO 3	252.329	2442.12	114643.9
	VEGETAL	31.807	313.59	32882.6	TERRAPLEN	0.223	2.85	96462.3
3260.000	EXC ROCA 2	29.643	0.01	486224.5	EXC ROCA 1	314.019	0.37	181616.3
	EXC SUELO 3	342.186	0.30	114644.2	VEGETAL	31.807	0.03	32882.6
	TERRAPLEN	0.223	0.00	96462.3				
3270.000	EXC ROCA 2	85.884	577.64	486802.1	EXC ROCA 1	378.618	3463.19	185079.5
	EXC SUELO 3	356.730	3494.58	118138.7	VEGETAL	33.308	325.58	33208.2
	TERRAPLEN	0.417	3.20	96465.5				
3280.000	EXC ROCA 2	155.436	1206.60	488008.7	EXC ROCA 1	442.538	4105.78	189185.3
	EXC SUELO 3	382.600	3696.65	121835.4	VEGETAL	36.998	351.53	33559.7
	TERRAPLEN	0.553	4.85	96470.3				
3290.000	EXC ROCA 2	235.269	1953.53	489962.2	EXC ROCA 1	486.798	4646.68	193831.9
	EXC SUELO 3	413.633	3981.17	125816.6	VEGETAL	39.218	381.08	33940.8
	TERRAPLEN	0.191	3.72	96474.0				
3300.000	EXC ROCA 2	280.859	2580.64	492542.9	EXC ROCA 1	526.076	5064.37	198896.3
	EXC SUELO 3	465.934	4397.84	130214.4	VEGETAL	43.544	413.81	34354.6
	TERRAPLEN	0.208	2.00	96476.0				
3300.000	EXC ROCA 2	280.859	0.00	492542.9	EXC ROCA 1	526.076	0.00	198896.3
	EXC SUELO 3	465.934	0.00	130214.4	VEGETAL	43.544	0.00	34354.6
	TERRAPLEN	0.208	0.00	96476.0				
3310.000	EXC ROCA 2	309.391	2951.25	495494.1	EXC ROCA 1	564.050	5450.63	204346.9
	EXC SUELO 3	501.802	4838.68	135053.1	VEGETAL	43.325	434.35	34788.9
	TERRAPLEN	0.179	1.94	96478.0				
3320.000	EXC ROCA 2	307.485	3084.38	498578.5	EXC ROCA 1	588.835	5764.43	210111.3
	EXC SUELO 3	509.671	5057.37	140110.4	VEGETAL	45.819	445.72	35234.7
	TERRAPLEN	0.351	2.65	96480.6				
3325.858	EXC ROCA 2	314.524	1821.86	500400.4	EXC ROCA 1	589.998	3452.80	213564.1
	EXC SUELO 3	513.701	2997.46	143107.9	VEGETAL	47.090	272.13	35506.8
	TERRAPLEN	0.526	2.57	96483.2				
3325.868	EXC ROCA 2	314.539	3.15	500403.5	EXC ROCA 1	590.002	5.90	213570.0
	EXC SUELO 3	513.708	5.14	143113.0	VEGETAL	47.092	0.47	35507.3
	TERRAPLEN	0.526	0.01	96483.2				
3330.000	EXC ROCA 2	319.997	1310.95	501714.5	EXC ROCA 1	590.821	2439.58	216009.6
	EXC SUELO 3	509.629	2114.21	145227.2	VEGETAL	45.732	191.77	35699.0
	TERRAPLEN	0.307	1.72	96484.9				
3336.662	EXC ROCA 2	350.693	2234.07	503948.5	EXC ROCA 1	570.652	3868.87	219878.5
	EXC SUELO 3	482.813	3305.82	148533.1	VEGETAL	43.409	296.93	35996.0
	TERRAPLEN	0.362	2.23	96487.1				

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3340.000	EXC ROCA 2	366.804	1197.50	505146.0	EXC ROCA 1	586.989	1932.10	221810.6
	EXC SUELO 3	497.376	1635.94	150169.0	VEGETAL	44.630	146.94	36142.9
	TERRAPLEN	0.385	1.25	96488.4				
3343.235	EXC ROCA 2	379.433	1207.04	506353.1	EXC ROCA 1	605.877	1929.46	223740.1
	EXC SUELO 3	511.630	1632.07	151801.1	VEGETAL	45.927	146.48	36289.4
	TERRAPLEN	0.373	1.23	96489.6				
3350.000	EXC ROCA 2	404.194	2650.62	509003.7	EXC ROCA 1	633.605	4192.55	227932.6
	EXC SUELO 3	540.377	3558.41	155359.5	VEGETAL	48.153	318.23	36607.6
	TERRAPLEN	0.297	2.27	96491.9				
3350.005	EXC ROCA 2	400.203	2.01	509005.7	EXC ROCA 1	631.285	3.16	227935.8
	EXC SUELO 3	539.242	2.70	155362.2	VEGETAL	48.071	0.24	36607.8
	TERRAPLEN	0.298	0.00	96491.9				
3360.000	EXC ROCA 2	433.680	4167.33	513173.0	EXC ROCA 1	664.734	6476.86	234412.6
	EXC SUELO 3	574.010	5563.48	160925.7	VEGETAL	51.081	495.51	37103.4
	TERRAPLEN	0.332	3.15	96495.0				
3367.161	EXC ROCA 2	427.797	3084.52	516257.6	EXC ROCA 1	682.595	4824.11	239236.7
	EXC SUELO 3	586.548	4155.38	165081.0	VEGETAL	52.822	372.02	37475.4
	TERRAPLEN	0.420	2.69	96497.7				
3367.171	EXC ROCA 2	427.791	4.28	516261.8	EXC ROCA 1	682.620	6.83	239243.6
	EXC SUELO 3	586.557	5.87	165086.9	VEGETAL	52.822	0.53	37475.9
	TERRAPLEN	0.421	0.00	96497.7				
3367.280	EXC ROCA 2	427.716	46.63	516308.5	EXC ROCA 1	682.894	74.42	239318.0
	EXC SUELO 3	586.667	63.94	165150.9	VEGETAL	52.830	5.76	37481.7
	TERRAPLEN	0.421	0.05	96497.8				
3370.000	EXC ROCA 2	434.286	1172.32	517480.8	EXC ROCA 1	681.434	1855.49	241173.5
	EXC SUELO 3	589.645	1599.78	166750.6	VEGETAL	52.991	143.92	37625.6
	TERRAPLEN	0.357	1.06	96498.8				
3380.000	EXC ROCA 2	445.400	4398.43	521879.2	EXC ROCA 1	691.554	6864.94	248038.4
	EXC SUELO 3	600.566	5951.05	172701.7	VEGETAL	53.602	532.97	38158.5
	TERRAPLEN	0.310	3.34	96502.2				
3390.000	EXC ROCA 2	502.867	4741.33	526620.6	EXC ROCA 1	704.780	6981.67	255020.1
	EXC SUELO 3	602.775	6016.71	178718.4	VEGETAL	53.889	537.46	38696.0
	TERRAPLEN	0.320	3.15	96505.3				
3391.326	EXC ROCA 2	498.621	663.99	527284.5	EXC ROCA 1	707.056	936.05	255956.1
	EXC SUELO 3	603.501	799.76	179518.2	VEGETAL	53.886	71.45	38767.5
	TERRAPLEN	0.330	0.43	96505.7				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3399.999	EXC ROCA 2	465.413	4180.53	531465.1	EXC ROCA 1	694.904	6079.60	262035.7
	EXC SUELO 3	597.757	5209.26	184727.4	VEGETAL	53.257	464.62	39232.1
	TERRAPLEN	0.400	3.17	96508.9				
3400.000	EXC ROCA 2	0.000	0.23	531465.3	EXC ROCA 1	1160.309	0.93	262036.7
	EXC SUELO 3	597.756	0.60	184728.0	VEGETAL	53.257	0.05	39232.1
	TERRAPLEN	0.400	0.00	96508.9				
3410.000	EXC ROCA 1	1084.106	11222.07	273258.7	EXC SUELO 3	589.713	5937.35	190665.4
	VEGETAL	52.591	529.24	39761.4	TERRAPLEN	0.378	3.89	96512.8
3420.000	EXC ROCA 1	1099.962	10920.34	284179.1	EXC SUELO 3	576.863	5832.88	196498.2
	VEGETAL	51.787	521.89	40283.3	TERRAPLEN	0.359	3.69	96516.5
3430.000	EXC ROCA 1	1158.964	11294.63	295473.7	EXC SUELO 3	565.240	5710.51	202208.8
	VEGETAL	50.611	511.99	40795.3	TERRAPLEN	0.376	3.68	96520.2
3440.000	EXC ROCA 1	1234.995	11969.80	307443.5	EXC SUELO 3	563.897	5645.68	207854.4
	VEGETAL	47.829	492.20	41287.5	TERRAPLEN	0.189	2.82	96523.0
3450.000	EXC ROCA 1	1209.489	12222.42	319665.9	EXC SUELO 3	566.122	5650.10	213504.5
	VEGETAL	48.162	479.96	41767.4	TERRAPLEN	0.197	1.93	96524.9
3460.000	EXC ROCA 1	1088.465	11489.77	331155.7	EXC SUELO 3	565.684	5659.03	219163.6
	VEGETAL	48.052	481.07	42248.5	TERRAPLEN	0.193	1.95	96526.9
3463.462	EXC ROCA 1	1052.071	3705.27	334861.0	EXC SUELO 3	564.873	1956.99	221120.6
	VEGETAL	48.011	166.28	42414.8	TERRAPLEN	0.195	0.67	96527.5
3465.022	EXC ROCA 1	1030.532	1624.43	336485.4	EXC SUELO 3	564.402	880.83	222001.4
	VEGETAL	48.001	74.89	42489.7	TERRAPLEN	0.197	0.31	96527.8
3470.000	EXC ROCA 1	959.361	4952.84	341438.2	EXC SUELO 3	555.412	2787.22	224788.6
	VEGETAL	47.887	238.66	42728.3	TERRAPLEN	0.203	1.00	96528.8
3471.501	EXC ROCA 1	935.411	1422.03	342860.3	EXC SUELO 3	548.035	828.14	225616.8
	VEGETAL	47.788	71.80	42800.1	TERRAPLEN	0.206	0.31	96529.1
3477.982	EXC ROCA 1	824.029	5701.46	348561.7	EXC SUELO 3	514.666	3443.68	229060.4
	VEGETAL	47.548	308.94	43109.1	TERRAPLEN	0.207	1.34	96530.5
3480.000	EXC ROCA 1	789.385	1627.93	350189.7	EXC SUELO 3	501.166	1024.97	230085.4
	VEGETAL	46.388	94.78	43203.8	TERRAPLEN	0.315	0.53	96531.0
3484.468	EXC ROCA 1	727.095	3387.82	353577.5	EXC SUELO 3	481.603	2195.51	232280.9
	RELLEN MEDIANA	0.001	0.00	431.8	VEGETAL	44.044	202.03	43405.9
	TERRAPLEN	0.226	1.21	96532.2				
3490.000	EXC ROCA 1	658.861	3833.55	357411.0	EXC SUELO 3	448.308	2572.13	234853.0
	VEGETAL	41.819	237.50	43643.4	TERRAPLEN	0.838	2.94	96535.2
3490.955	EXC ROCA 1	648.241	624.14	358035.2	EXC SUELO 3	443.768	425.97	235279.0
	VEGETAL	40.711	39.41	43682.8	TERRAPLEN	0.226	0.51	96535.7

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3497.446	EXC ROCA 1	555.436	3906.53	361941.7	EXC SUELO 3	409.891	2770.55	238049.6
	VEGETAL	36.634	251.03	43933.8	TERRAPLEN	0.270	1.61	96537.3
3500.000	EXC ROCA 1	515.657	1367.78	363309.5	EXC SUELO 3	397.691	1031.28	239080.8
	VEGETAL	35.452	92.05	44025.9	TERRAPLEN	0.254	0.67	96538.0
3503.939	EXC ROCA 1	458.146	1917.90	365227.4	EXC SUELO 3	381.333	1534.29	240615.1
	VEGETAL	34.156	137.09	44162.9	TERRAPLEN	0.222	0.94	96538.9
3510.000	EXC ROCA 1	365.110	2494.88	367722.3	EXC SUELO 3	352.297	2223.27	242838.4
	VEGETAL	31.992	200.46	44363.4	TERRAPLEN	0.196	1.27	96540.2
3510.436	EXC ROCA 1	358.386	157.72	367880.0	EXC SUELO 3	349.965	153.09	242991.5
	VEGETAL	31.899	13.93	44377.3	TERRAPLEN	0.192	0.08	96540.2
3516.935	EXC ROCA 1	269.349	2039.83	369919.8	EXC SUELO 3	325.193	2193.93	245185.4
	VEGETAL	28.499	196.26	44573.6	TERRAPLEN	0.174	1.19	96541.4
3520.000	EXC ROCA 1	228.452	762.88	370682.7	EXC SUELO 3	318.774	986.88	246172.3
	SUEL-EST3 DESM	0.022	0.03	1302.9	RELLEN ARCENES	0.658	1.01	300.0
	VEGETAL	27.869	86.38	44660.0	TERRAPLEN	0.154	0.50	96541.9
3523.437	EXC ROCA 1	182.537	706.28	371389.0	EXC SUELO 3	303.339	1069.10	247241.4
	SUEL-EST3 DESM	1.512	2.64	1305.5	RELLEN ARCENES	0.668	2.28	302.2
	VEGETAL	27.344	94.88	44754.9	TERRAPLEN	0.148	0.52	96542.5
3529.943	EXC ROCA 1	129.011	1013.46	372402.4	EXC SUELO 3	268.391	1859.84	249101.2
	SUEL-EST3 DESM	2.535	13.16	1318.7	RELLEN ARCENES	0.669	4.35	306.6
	VEGETAL	25.827	172.96	44927.8	TERRAPLEN	0.167	1.02	96543.5
3530.000	EXC ROCA 1	128.537	7.34	372409.8	EXC SUELO 3	268.097	15.29	249116.5
	SUEL-EST3 DESM	2.542	0.14	1318.9	RELLEN ARCENES	0.668	0.04	306.6
	VEGETAL	25.825	1.47	44929.3	TERRAPLEN	0.167	0.01	96543.5
3536.452	EXC ROCA 1	69.029	637.35	373047.1	EXC SUELO 3	228.806	1603.01	250719.5
	SUEL-EST3 DESM	4.863	23.89	1342.7	RELLEN MEDIANA	0.160	0.51	432.4
	RELLEN ARCENES	0.668	4.31	310.9	VEGETAL	25.083	164.23	45093.5
	TERRAPLEN	0.261	1.38	96544.9				
3539.999	EXC ROCA 1	45.260	202.69	373249.8	EXC SUELO 3	202.226	764.43	251484.0
	SUEL-EST3 DESM	4.916	17.34	1360.1	RELLEN MEDIANA	1.694	3.29	435.6
	RELLEN ARCENES	0.668	2.37	313.3	VEGETAL	24.979	88.78	45182.3
	TERRAPLEN	0.463	1.28	96546.2				
3540.000	EXC ROCA 1	0.000	0.02	373249.8	EXC SUELO 3	253.940	0.23	251484.2
	SUEL-EST3 DESM	9.948	0.01	1360.1	RELLEN MEDIANA	2.543	0.00	435.6
	RELLEN ARCENES	1.255	0.00	313.3	VEGETAL	24.979	0.02	45182.3
	TERRAPLEN	0.463	0.00	96546.2				

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3542.964	EXC SUELO 3	221.135	704.06	252188.3	SUEL-EST3 DESM	9.986	29.54	1389.6
	RELLEN MEDIANA	2.606	7.63	443.3	RELLEN ARCENES	1.255	3.72	317.0
	VEGETAL	24.871	73.88	45256.2	TERRAPLEN	0.469	1.38	96547.5
3549.480	EXC SUELO 3	143.501	1187.99	253376.2	SUEL-EST3 DESM	7.022	55.41	1445.0
	SUEL-EST3 TERR	3.236	10.54	3405.5	RELLEN MEDIANA	2.745	17.43	460.7
	RELLEN ARCENES	0.586	6.00	323.0	VEGETAL	22.157	153.22	45409.4
	TERRAPLEN	2.263	8.90	96556.4				
3550.000	EXC SUELO 3	140.885	73.94	253450.2	SUEL-EST3 DESM	6.694	3.57	1448.6
	SUEL-EST3 TERR	3.564	1.77	3407.3	RELLEN MEDIANA	2.757	1.43	462.1
	RELLEN ARCENES	0.586	0.30	323.3	VEGETAL	22.158	11.52	45421.0
	TERRAPLEN	3.046	1.38	96557.8				
3554.999	EXC SUELO 3	102.280	607.79	254058.0	SUEL-EST3 DESM	5.035	29.32	1477.9
	SUEL-EST3 TERR	5.222	21.96	3429.2	RELLEN MEDIANA	2.860	14.04	476.2
	RELLEN ARCENES	0.586	2.93	326.3	VEGETAL	23.391	113.85	45534.8
	TERRAPLEN	27.416	76.14	96634.0				
3555.000	EXC SUELO 3	0.000	0.05	254058.0	EXC SUELO 2	105.802	0.05	6110.9
	SUEL-EST3 DESM	5.054	0.01	1477.9	SUEL-EST3 TERR	5.204	0.01	3429.2
	RELLEN MEDIANA	2.860	0.00	476.2	RELLEN ARCENES	0.586	0.00	326.3
	VEGETAL	17.543	0.02	45534.8	TERRAPLEN	25.105	0.03	96634.0
3560.000	EXC SUELO 2	70.492	440.74	6551.6	SUEL-EST3 DESM	5.033	25.22	1503.2
	SUEL-EST3 TERR	5.225	26.07	3455.3	RELLEN MEDIANA	2.963	14.56	490.7
	RELLEN ARCENES	0.586	2.93	329.2	VEGETAL	18.595	90.35	45625.2
	TERRAPLEN	59.676	211.95	96845.9				
3562.833	EXC SUELO 2	48.806	168.99	6720.6	SUEL-EST3 DESM	5.033	14.26	1517.4
	SUEL-EST3 TERR	5.225	14.80	3470.1	RELLEN MEDIANA	3.020	8.47	499.2
	RELLEN ARCENES	0.586	1.66	330.9	VEGETAL	19.369	53.78	45678.9
	TERRAPLEN	82.944	202.02	97048.0				
3562.843	EXC SUELO 2	48.731	0.49	6721.1	SUEL-EST3 DESM	5.033	0.05	1517.5
	SUEL-EST3 TERR	5.224	0.05	3470.1	RELLEN MEDIANA	3.021	0.03	499.2
	RELLEN ARCENES	0.586	0.01	330.9	VEGETAL	19.371	0.19	45679.1
	TERRAPLEN	83.033	0.83	97048.8				
3564.868	EXC SUELO 2	33.919	83.68	6804.8	SUEL-EST3 DESM	5.033	10.19	1527.7
	SUEL-EST3 TERR	5.226	10.58	3480.7	RELLEN MEDIANA	3.061	6.16	505.4
	RELLEN ARCENES	0.586	1.19	332.0	VEGETAL	19.600	39.46	45718.6
	TERRAPLEN	101.281	186.62	97235.4				

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3566.405	EXC SUELO 2	23.112	43.83	6848.6	SUEL-EST3 DESM	5.033	7.74	1535.4
	SUEL-EST3 TERR	5.225	8.03	3488.8	RELLEN MEDIANA	3.093	4.73	510.1
	RELLEN ARCENES	0.586	0.90	332.9	VEGETAL	19.474	30.03	45748.6
	TERRAPLEN	115.303	166.44	97401.8				
3567.025	EXC SUELO 2	18.870	13.01	6861.6	SUEL-EST3 DESM	5.033	3.12	1538.5
	SUEL-EST3 TERR	5.224	3.24	3492.0	RELLEN MEDIANA	3.106	1.92	512.0
	RELLEN ARCENES	0.586	0.36	333.3	VEGETAL	19.418	12.06	45760.7
	TERRAPLEN	121.044	73.27	97475.1				
3567.030	EXC SUELO 2	18.843	0.09	6861.7	SUEL-EST3 DESM	5.033	0.03	1538.5
	SUEL-EST3 TERR	5.225	0.03	3492.0	RELLEN MEDIANA	3.105	0.02	512.1
	RELLEN ARCENES	0.587	0.00	333.3	VEGETAL	19.417	0.10	45760.8
	TERRAPLEN	121.095	0.61	97475.7				
3567.356	EXC SUELO 2	17.100	5.86	6867.6	SUEL-EST3 DESM	5.033	1.64	1540.2
	SUEL-EST3 TERR	5.230	1.70	3493.7	RELLEN MEDIANA	3.112	1.01	513.1
	RELLEN ARCENES	0.586	0.19	333.5	VEGETAL	19.375	6.32	45767.1
	TERRAPLEN	124.479	40.03	97515.7				
3569.414	EXC SUELO 2	3.685	21.39	6889.0	SUEL-EST3 DESM	2.645	7.90	1548.1
	SUEL-EST3 TERR	7.156	12.74	3506.5	RELLEN MEDIANA	3.155	6.45	519.5
	RELLEN ARCENES	0.262	0.87	334.4	VEGETAL	17.632	38.08	45805.2
	TERRAPLEN	146.487	278.82	97794.6				
3569.419	EXC SUELO 2	3.655	0.02	6889.0	SUEL-EST3 DESM	2.636	0.01	1548.1
	SUEL-EST3 TERR	7.164	0.04	3506.5	RELLEN MEDIANA	3.155	0.02	519.5
	RELLEN ARCENES	0.263	0.00	334.4	VEGETAL	17.633	0.09	45805.3
	TERRAPLEN	146.547	0.73	97795.3				
3570.000	EXC SUELO 2	0.534	1.22	6890.2	SUEL-EST3 DESM	0.286	0.85	1548.9
	SUEL-EST3 TERR	9.527	4.85	3511.4	RELLEN MEDIANA	3.167	1.84	521.4
	RELLEN ARCENES	0.328	0.17	334.6	VEGETAL	17.722	10.27	45815.5
	TERRAPLEN	153.816	87.26	97882.6				
3570.004	EXC SUELO 2	0.526	0.00	6890.2	SUEL-EST3 DESM	0.280	0.00	1548.9
	SUEL-EST3 TERR	9.532	0.04	3511.4	RELLEN MEDIANA	3.167	0.01	521.4
	RELLEN ARCENES	0.328	0.00	334.6	VEGETAL	17.722	0.07	45815.6
	TERRAPLEN	153.864	0.62	97883.2				
3571.799	EXC SUELO 2	0.022	0.49	6890.7	SUEL-EST3 DESM	0.022	0.27	1549.2
	SUEL-EST3 TERR	10.236	17.74	3529.1	RELLEN MEDIANA	3.203	5.72	527.1
	RELLEN ARCENES	0.003	0.30	334.9	VEGETAL	17.878	31.95	45847.6
	TERRAPLEN	177.902	297.76	98180.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3571.804	EXC SUELO 2	0.022	0.00	6890.7	SUEL-EST3 DESM	0.022	0.00	1549.2
	SUEL-EST3 TERR	10.236	0.05	3529.2	RELLEN MEDIANA	3.203	0.02	527.1
	RELLEN ARCENES	0.003	0.00	334.9	VEGETAL	17.879	0.09	45847.7
	TERRAPLEN	177.979	0.89	98181.8				
3573.439	EXC SUELO 2	0.000	0.02	6890.7	SUEL-EST3 DESM	0.000	0.02	1549.2
	SUEL-EST3 TERR	10.359	16.84	3546.0	RELLEN MEDIANA	3.235	5.26	532.4
	VEGETAL	18.010	29.34	45877.0	TERRAPLEN	203.392	311.77	98493.6
3574.179	SUEL-EST3 TERR	10.396	7.68	3553.7	RELLEN MEDIANA	3.251	2.40	534.8
	VEGETAL	18.076	13.35	45890.3	TERRAPLEN	214.977	154.80	98648.4
3574.184	SUEL-EST3 TERR	10.396	0.05	3553.8	RELLEN MEDIANA	3.250	0.02	534.8
	VEGETAL	18.076	0.09	45890.4	TERRAPLEN	215.035	1.08	98649.5
3575.255	SUEL-EST3 TERR	10.435	11.16	3564.9	RELLEN MEDIANA	3.271	3.49	538.3
	VEGETAL	18.203	19.43	45909.9	TERRAPLEN	227.967	237.23	98886.7
3576.552	SUEL-EST3 TERR	10.446	13.54	3578.5	RELLEN MEDIANA	3.298	4.26	542.6
	VEGETAL	18.352	23.71	45933.6	TERRAPLEN	243.817	305.95	99192.6
3576.557	SUEL-EST3 TERR	10.447	0.05	3578.5	RELLEN MEDIANA	3.298	0.02	542.6
	VEGETAL	18.352	0.09	45933.7	TERRAPLEN	243.894	1.22	99193.9
3576.919	SUEL-EST3 TERR	10.452	3.78	3582.3	RELLEN MEDIANA	3.305	1.20	543.8
	VEGETAL	18.413	6.65	45940.3	TERRAPLEN	249.346	89.28	99283.1
3578.582	SUEL-EST3 TERR	10.481	17.41	3599.7	RELLEN MEDIANA	3.339	5.52	549.3
	VEGETAL	18.678	30.84	45971.2	TERRAPLEN	274.734	435.77	99718.9
3578.916	SUEL-EST3 TERR	10.487	3.50	3603.2	RELLEN MEDIANA	3.345	1.12	550.4
	VEGETAL	18.730	6.25	45977.4	TERRAPLEN	279.898	92.62	99811.5
3578.920	SUEL-EST3 TERR	10.489	0.04	3603.2	RELLEN MEDIANA	3.344	0.01	550.4
	VEGETAL	18.730	0.07	45977.5	TERRAPLEN	279.957	1.12	99812.7
3580.000	SUEL-EST3 TERR	10.515	11.34	3614.6	RELLEN MEDIANA	3.367	3.62	554.0
	VEGETAL	18.860	20.30	45997.8	TERRAPLEN	297.125	311.62	100124.3
3580.005	SUEL-EST3 TERR	10.516	0.05	3614.6	RELLEN MEDIANA	3.366	0.02	554.1
	VEGETAL	18.861	0.09	45997.9	TERRAPLEN	297.215	1.49	100125.8
3580.240	SUEL-EST3 TERR	10.523	2.47	3617.1	RELLEN MEDIANA	3.371	0.79	554.9
	VEGETAL	18.887	4.44	46002.3	TERRAPLEN	301.479	70.35	100196.1
3581.270	SUEL-EST3 TERR	10.549	10.85	3628.0	RELLEN MEDIANA	3.392	3.48	558.3
	VEGETAL	18.999	19.51	46021.8	TERRAPLEN	320.196	320.16	100516.3
3581.275	SUEL-EST3 TERR	10.548	0.05	3628.0	RELLEN MEDIANA	3.392	0.02	558.4
	VEGETAL	19.000	0.09	46021.9	TERRAPLEN	320.286	1.60	100517.9
3581.888	SUEL-EST3 TERR	10.570	6.47	3634.5	RELLEN MEDIANA	3.404	2.08	560.4
	VEGETAL	19.084	11.67	46033.6	TERRAPLEN	331.533	199.78	100717.7

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3583.529	SUEL-EST3 TERR	10.626	17.39	3651.9	RELLEN MEDIANA	3.436	5.61	566.0
	VEGETAL	19.324	31.51	46065.1	TERRAPLEN	361.890	568.95	101286.6
3583.611	SUEL-EST3 TERR	10.629	0.87	3652.7	RELLEN MEDIANA	3.438	0.28	566.3
	VEGETAL	19.336	1.59	46066.7	TERRAPLEN	363.415	29.74	101316.4
3583.616	SUEL-EST3 TERR	10.629	0.05	3652.8	RELLEN MEDIANA	3.438	0.02	566.3
	VEGETAL	19.336	0.10	46066.8	TERRAPLEN	363.507	1.82	101318.2
3585.160	SUEL-EST3 TERR	10.696	16.46	3669.3	RELLEN MEDIANA	3.468	5.33	571.7
	VEGETAL	19.518	30.00	46096.8	TERRAPLEN	391.968	583.23	101901.4
3585.938	SUEL-EST3 TERR	10.730	8.33	3677.6	RELLEN MEDIANA	3.484	2.70	574.4
	VEGETAL	19.616	15.22	46112.0	TERRAPLEN	406.391	310.56	102212.0
3585.942	SUEL-EST3 TERR	10.732	0.04	3677.6	RELLEN MEDIANA	3.485	0.01	574.4
	VEGETAL	19.616	0.08	46112.1	TERRAPLEN	406.470	1.63	102213.6
3586.781	SUEL-EST3 TERR	10.774	9.02	3686.7	RELLEN MEDIANA	3.500	2.93	577.3
	VEGETAL	19.716	16.50	46128.6	TERRAPLEN	423.444	348.15	102561.7
3588.250	SUEL-EST3 TERR	10.851	15.88	3702.5	RELLEN MEDIANA	3.530	5.16	582.5
	VEGETAL	19.892	29.09	46157.7	TERRAPLEN	453.300	643.97	103205.7
3588.255	SUEL-EST3 TERR	10.852	0.05	3702.6	RELLEN MEDIANA	3.529	0.02	582.5
	VEGETAL	19.892	0.10	46157.8	TERRAPLEN	453.406	2.27	103208.0
3588.388	SUEL-EST3 TERR	10.860	1.44	3704.0	RELLEN MEDIANA	3.532	0.47	583.0
	VEGETAL	19.912	2.65	46160.4	TERRAPLEN	456.297	60.50	103268.5
3590.000	SUEL-EST3 TERR	10.959	17.59	3721.6	RELLEN MEDIANA	3.564	5.72	588.7
	VEGETAL	20.153	32.29	46192.7	TERRAPLEN	491.420	763.86	104032.3
3590.004	SUEL-EST3 TERR	10.961	0.04	3721.7	RELLEN MEDIANA	3.563	0.01	588.7
	VEGETAL	20.154	0.08	46192.8	TERRAPLEN	491.483	1.97	104034.3
3590.129	SUEL-EST3 TERR	10.968	1.37	3723.0	RELLEN MEDIANA	3.565	0.45	589.2
	VEGETAL	20.171	2.52	46195.3	TERRAPLEN	493.517	61.56	104095.9
3590.544	SUEL-EST3 TERR	10.993	4.56	3727.6	RELLEN MEDIANA	3.573	1.48	590.6
	VEGETAL	20.217	8.38	46203.7	TERRAPLEN	500.275	206.21	104302.1
3590.548	SUEL-EST3 TERR	10.993	0.04	3727.6	RELLEN MEDIANA	3.573	0.01	590.7
	VEGETAL	20.218	0.08	46203.8	TERRAPLEN	500.339	2.00	104304.1
3592.324	SUEL-EST3 TERR	11.119	19.64	3747.3	RELLEN MEDIANA	3.608	6.38	597.0
	VEGETAL	20.595	36.24	46240.0	TERRAPLEN	529.254	914.28	105218.3
3592.819	SUEL-EST3 TERR	11.154	5.51	3752.8	RELLEN MEDIANA	3.617	1.79	598.8
	VEGETAL	20.676	10.21	46250.2	TERRAPLEN	537.377	263.99	105482.3
3592.823	SUEL-EST3 TERR	11.155	0.04	3752.8	RELLEN MEDIANA	3.617	0.01	598.8
	VEGETAL	20.676	0.08	46250.3	TERRAPLEN	537.418	2.15	105484.5
3595.000	SUEL-EST3 TERR	11.318	24.46	3777.3	RELLEN MEDIANA	3.659	7.92	606.8
	VEGETAL	21.135	45.51	46295.8	TERRAPLEN	560.803	1195.41	106679.9

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PROYECTO : VARIANTE DE OURENSE
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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3595.189	SUEL-EST3 TERR	11.337	2.14	3779.4	RELLEN MEDIANA	3.663	0.69	607.4
	VEGETAL	21.200	4.00	46299.8	TERRAPLEN	563.175	106.22	106786.1
3595.428	SUEL-EST3 TERR	11.361	2.71	3782.2	RELLEN MEDIANA	3.668	0.88	608.3
	VEGETAL	21.849	5.14	46305.0	TERRAPLEN	567.372	135.10	106921.2
3595.433	SUEL-EST3 TERR	11.364	0.06	3782.2	RELLEN MEDIANA	3.667	0.02	608.3
	VEGETAL	21.850	0.11	46305.1	TERRAPLEN	567.449	2.84	106924.1
3597.641	SUEL-EST3 TERR	11.568	25.32	3807.5	RELLEN MEDIANA	3.709	8.14	616.5
	VEGETAL	21.996	48.41	46353.5	TERRAPLEN	600.883	1289.84	108213.9
3597.646	SUEL-EST3 TERR	11.567	0.06	3807.6	RELLEN MEDIANA	3.710	0.02	616.5
	VEGETAL	21.997	0.11	46353.6	TERRAPLEN	600.923	3.00	108216.9
3598.091	SUEL-EST3 TERR	11.604	5.16	3812.7	RELLEN MEDIANA	3.718	1.65	618.2
	VEGETAL	22.017	9.79	46363.4	TERRAPLEN	604.362	268.18	108485.1
3599.882	SUEL-EST3 TERR	11.749	20.91	3833.7	RELLEN MEDIANA	3.753	6.69	624.8
	VEGETAL	22.046	39.46	46402.8	TERRAPLEN	618.345	1094.93	109580.0
3599.887	SUEL-EST3 TERR	11.749	0.06	3833.7	RELLEN MEDIANA	3.753	0.02	624.9
	VEGETAL	22.046	0.11	46402.9	TERRAPLEN	618.371	3.09	109583.1
3600.000	SUEL-EST3 TERR	11.757	1.33	3835.0	RELLEN MEDIANA	3.755	0.42	625.3
	VEGETAL	22.055	2.49	46405.4	TERRAPLEN	618.886	69.91	109653.0
3600.000	SUEL-EST3 TERR	11.757	0.00	3835.0	RELLEN MEDIANA	3.755	0.00	625.3
	VEGETAL	22.055	0.00	46405.4	TERRAPLEN	618.886	0.00	109653.0
3600.005	SUEL-EST3 TERR	11.758	0.06	3835.1	RELLEN MEDIANA	3.755	0.02	625.3
	VEGETAL	22.055	0.11	46405.6	TERRAPLEN	618.926	3.09	109656.1
3601.052	SUEL-EST3 TERR	11.832	12.35	3847.4	RELLEN MEDIANA	3.774	3.94	629.2
	VEGETAL	22.179	23.16	46428.7	TERRAPLEN	627.827	652.68	110308.8
3602.148	SUEL-EST3 TERR	11.908	13.01	3860.5	RELLEN MEDIANA	3.796	4.15	633.4
	VEGETAL	22.327	24.39	46453.1	TERRAPLEN	637.248	693.26	111002.0
3602.152	SUEL-EST3 TERR	11.907	0.05	3860.5	RELLEN MEDIANA	3.796	0.02	633.4
	VEGETAL	22.328	0.09	46453.2	TERRAPLEN	637.297	2.55	111004.6
3603.910	SUEL-EST3 TERR	12.010	21.02	3881.5	RELLEN MEDIANA	3.830	6.70	640.1
	VEGETAL	22.895	39.75	46492.9	TERRAPLEN	658.063	1138.62	112143.2
3604.433	SUEL-EST3 TERR	12.042	6.29	3887.8	RELLEN MEDIANA	3.840	2.01	642.1
	VEGETAL	23.064	12.02	46505.0	TERRAPLEN	664.479	345.84	112489.0
3604.438	SUEL-EST3 TERR	12.043	0.06	3887.9	RELLEN MEDIANA	3.840	0.02	642.1
	VEGETAL	23.064	0.12	46505.1	TERRAPLEN	664.513	3.32	112492.4
3606.694	SUEL-EST3 TERR	12.146	27.29	3915.2	RELLEN MEDIANA	3.883	8.71	650.9
	VEGETAL	23.171	52.15	46557.2	TERRAPLEN	679.638	1516.20	114008.6
3606.699	SUEL-EST3 TERR	12.146	0.06	3915.2	RELLEN MEDIANA	3.883	0.02	650.9
	VEGETAL	23.173	0.12	46557.3	TERRAPLEN	679.686	3.40	114012.0

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3606.805	SUEL-EST3 TERR	12.150	1.29	3916.5	RELLEN MEDIANA	3.885	0.41	651.3
	VEGETAL	23.204	2.46	46559.8	TERRAPLEN	680.627	72.10	114084.1
3609.010	SUEL-EST3 TERR	12.235	26.88	3943.4	RELLEN MEDIANA	3.927	8.61	659.9
	VEGETAL	23.863	51.89	46611.7	TERRAPLEN	701.295	1523.57	115607.6
3609.015	SUEL-EST3 TERR	12.236	0.06	3943.5	RELLEN MEDIANA	3.927	0.02	659.9
	VEGETAL	23.864	0.12	46611.8	TERRAPLEN	701.340	3.51	115611.1
3609.795	SUEL-EST3 TERR	12.257	9.55	3953.0	RELLEN MEDIANA	3.942	3.07	663.0
	VEGETAL	23.886	18.62	46630.4	TERRAPLEN	707.605	549.49	116160.6
3610.000	SUEL-EST3 TERR	12.263	2.51	3955.5	RELLEN MEDIANA	3.946	0.81	663.8
	VEGETAL	23.891	4.90	46635.3	TERRAPLEN	709.248	145.23	116305.9
3610.005	SUEL-EST3 TERR	12.263	0.06	3955.6	RELLEN MEDIANA	3.946	0.02	663.8
	VEGETAL	23.892	0.12	46635.4	TERRAPLEN	709.299	3.55	116309.4
3611.338	SUEL-EST3 TERR	12.300	16.37	3972.0	RELLEN MEDIANA	3.970	5.28	669.1
	VEGETAL	23.990	31.91	46667.4	TERRAPLEN	723.550	954.99	117264.4
3611.342	SUEL-EST3 TERR	12.299	0.05	3972.0	RELLEN MEDIANA	3.971	0.02	669.1
	VEGETAL	23.991	0.10	46667.5	TERRAPLEN	723.589	2.89	117267.3
3612.795	SUEL-EST3 TERR	12.325	17.89	3989.9	RELLEN MEDIANA	3.996	5.79	674.9
	VEGETAL	24.328	35.10	46702.6	TERRAPLEN	737.669	1061.60	118328.9
3613.675	SUEL-EST3 TERR	12.339	10.85	4000.7	RELLEN MEDIANA	4.014	3.52	678.4
	VEGETAL	24.569	21.51	46724.1	TERRAPLEN	746.559	653.06	118982.0
3613.680	SUEL-EST3 TERR	12.339	0.06	4000.8	RELLEN MEDIANA	4.014	0.02	678.4
	VEGETAL	24.570	0.12	46724.2	TERRAPLEN	746.597	3.73	118985.7
3615.662	SUEL-EST3 TERR	12.348	24.46	4025.3	RELLEN MEDIANA	4.049	7.99	686.4
	VEGETAL	25.087	49.21	46773.4	TERRAPLEN	763.043	1496.05	120481.7
3616.015	SUEL-EST3 TERR	12.349	4.36	4029.6	RELLEN MEDIANA	4.056	1.43	687.9
	VEGETAL	25.179	8.87	46782.3	TERRAPLEN	766.120	269.90	120751.6
3616.020	SUEL-EST3 TERR	12.348	0.06	4029.7	RELLEN MEDIANA	4.056	0.02	687.9
	VEGETAL	25.180	0.13	46782.4	TERRAPLEN	766.175	3.83	120755.5
3619.444	SUEL-EST3 TERR	12.348	42.28	4072.0	RELLEN MEDIANA	4.119	14.00	701.9
	VEGETAL	25.697	87.10	46869.5	TERRAPLEN	803.315	2686.97	123442.4
3620.000	SUEL-EST3 TERR	12.348	6.87	4078.8	RELLEN MEDIANA	4.129	2.29	704.2
	VEGETAL	25.780	14.31	46883.8	TERRAPLEN	809.474	448.36	123890.8
3620.005	SUEL-EST3 TERR	12.348	0.06	4078.9	RELLEN MEDIANA	4.130	0.02	704.2
	VEGETAL	25.781	0.13	46883.9	TERRAPLEN	809.525	4.05	123894.8
3626.016	SUEL-EST3 TERR	12.349	74.23	4153.1	RELLEN MEDIANA	4.236	25.14	729.3
	VEGETAL	26.662	157.62	47041.6	TERRAPLEN	874.468	5061.24	128956.1
3630.000	SUEL-EST3 TERR	12.350	49.20	4202.3	RELLEN MEDIANA	4.309	17.02	746.4
	VEGETAL	27.214	107.32	47148.9	TERRAPLEN	919.707	3574.00	132530.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3630.005	SUEL-EST3 TERR	12.348	0.06	4202.4	RELLEN MEDIANA	4.309	0.02	746.4
	VEGETAL	27.215	0.14	47149.0	TERRAPLEN	919.791	4.60	132534.7
3632.588	SUEL-EST3 TERR	12.348	31.90	4234.3	RELLEN MEDIANA	4.355	11.19	757.6
	VEGETAL	27.496	70.66	47219.7	TERRAPLEN	963.324	2432.04	134966.7
3639.160	SUEL-EST3 TERR	12.348	81.15	4315.4	RELLEN MEDIANA	4.473	29.01	786.6
	VEGETAL	28.212	183.06	47402.7	TERRAPLEN	1076.139	6701.67	141668.4
3640.000	SUEL-EST3 TERR	12.352	10.37	4325.8	RELLEN MEDIANA	4.488	3.76	790.3
	VEGETAL	28.305	23.74	47426.5	TERRAPLEN	1090.772	910.10	142578.5
3640.005	SUEL-EST3 TERR	12.348	0.06	4325.9	RELLEN MEDIANA	4.488	0.02	790.4
	VEGETAL	28.305	0.14	47426.6	TERRAPLEN	1090.841	5.45	142583.9
3645.732	SUEL-EST3 TERR	12.350	70.72	4396.6	RELLEN MEDIANA	4.584	25.98	816.3
	VEGETAL	28.693	163.21	47589.8	TERRAPLEN	1170.017	6473.97	149057.9
3649.999	SUEL-EST3 TERR	12.348	52.69	4449.3	RELLEN MEDIANA	4.656	19.71	836.0
	VEGETAL	28.955	122.99	47712.8	TERRAPLEN	1229.548	5119.47	154177.4
3650.000	EXC SUELO 1	115.818	0.06	5401.7	SUEL-EST3 TERR	12.351	0.01	4449.3
	RELLEN MEDIANA	4.656	0.00	836.1	VEGETAL	28.955	0.03	47712.9
	TERRAPLEN	1345.366	1.29	154178.7				
3650.005	EXC SUELO 1	115.819	0.58	5402.3	SUEL-EST3 TERR	12.348	0.06	4449.4
	RELLEN MEDIANA	4.656	0.02	836.1	VEGETAL	28.955	0.14	47713.0
	TERRAPLEN	1345.383	6.73	154185.4				
3652.307	EXC SUELO 1	116.220	267.08	5669.4	SUEL-EST3 TERR	12.348	28.43	4477.8
	RELLEN MEDIANA	4.696	10.77	846.8	VEGETAL	29.055	66.77	47779.8
	TERRAPLEN	1350.663	3103.15	157288.6				
3658.881	EXC SUELO 1	117.452	768.08	6437.5	SUEL-EST3 TERR	12.348	81.18	4559.0
	RELLEN MEDIANA	4.809	31.24	878.1	VEGETAL	29.363	192.02	47971.8
	TERRAPLEN	1366.183	8930.27	166218.8				
3660.000	EXC SUELO 1	117.674	131.55	6569.0	SUEL-EST3 TERR	12.349	13.82	4572.8
	RELLEN MEDIANA	4.827	5.39	883.5	VEGETAL	29.419	32.89	48004.7
	TERRAPLEN	1368.876	1530.27	167749.1				
3660.004	EXC SUELO 1	117.671	0.47	6569.5	SUEL-EST3 TERR	12.350	0.05	4572.8
	RELLEN MEDIANA	4.827	0.02	883.5	VEGETAL	29.418	0.12	48004.8
	TERRAPLEN	1368.826	5.48	167754.6				
3665.458	EXC SUELO 1	115.256	635.19	7204.7	SUEL-EST3 TERR	12.348	67.35	4640.2
	RELLEN MEDIANA	4.916	26.57	910.1	VEGETAL	28.815	158.80	48163.6
	TERRAPLEN	1298.629	7274.15	175028.7				
3670.000	EXC SUELO 1	113.348	519.16	7723.8	SUEL-EST3 TERR	12.350	56.09	4696.3
	RELLEN MEDIANA	4.987	22.49	932.6	VEGETAL	28.337	129.79	48293.4
	TERRAPLEN	1241.851	5769.43	180798.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3670.004	EXC SUELO 1	113.347	0.45	7724.3	SUEL-EST3 TERR	12.350	0.05	4696.3
	RELLEN MEDIANA	4.988	0.02	932.6	VEGETAL	28.337	0.11	48293.5
	TERRAPLEN	1241.740	4.97	180803.1				
3672.033	EXC SUELO 1	112.537	229.16	7953.4	SUEL-EST3 TERR	12.350	25.06	4721.4
	RELLEN MEDIANA	5.020	10.15	942.7	VEGETAL	28.134	57.29	48350.8
	TERRAPLEN	1185.823	2462.76	183265.9				
3674.999	EXC SUELO 1	111.469	332.20	8285.6	SUEL-EST3 TERR	12.348	36.63	4758.0
	RELLEN MEDIANA	5.069	14.96	957.7	VEGETAL	27.867	83.05	48433.8
	TERRAPLEN	1104.706	3396.85	186662.7				
3675.000	EXC SUELO 1	83.601	0.10	8285.7	SUEL-EST3 TERR	12.350	0.01	4758.0
	RELLEN MEDIANA	5.068	0.01	957.7	VEGETAL	27.868	0.03	48433.9
	TERRAPLEN	1076.817	1.09	186663.8				
3678.611	EXC SUELO 1	82.295	299.53	8585.3	SUEL-EST3 TERR	12.349	44.59	4802.6
	RELLEN MEDIANA	5.127	18.41	976.1	VEGETAL	27.432	99.84	48533.7
	TERRAPLEN	970.192	3695.87	190359.7				
3680.000	EXC SUELO 1	81.753	113.93	8699.2	SUEL-EST3 TERR	12.350	17.15	4819.8
	RELLEN MEDIANA	5.148	7.14	983.2	VEGETAL	27.251	37.98	48571.7
	TERRAPLEN	929.482	1319.32	191679.0				
3680.005	EXC SUELO 1	81.750	0.41	8699.6	SUEL-EST3 TERR	12.348	0.06	4819.8
	RELLEN MEDIANA	5.150	0.03	983.3	VEGETAL	27.250	0.14	48571.8
	TERRAPLEN	929.280	4.65	191683.7				
3685.192	EXC SUELO 1	77.979	414.26	9113.9	SUEL-EST3 TERR	12.349	64.05	4883.9
	RELLEN MEDIANA	5.230	26.92	1010.2	VEGETAL	25.993	138.09	48709.9
	TERRAPLEN	718.835	4274.39	195958.0				
3689.883	EXC SUELO 1	74.541	357.74	9471.6	SUEL-EST3 TERR	12.350	57.93	4941.8
	RELLEN MEDIANA	5.302	24.70	1034.9	VEGETAL	24.847	119.25	48829.2
	TERRAPLEN	537.047	2945.67	198903.7				
3689.892	EXC SUELO 1	74.534	0.67	9472.3	SUEL-EST3 TERR	12.348	0.11	4941.9
	RELLEN MEDIANA	5.303	0.05	1034.9	VEGETAL	24.845	0.22	48829.4
	TERRAPLEN	536.710	4.83	198908.5				
3690.000	EXC SUELO 1	74.455	8.05	9480.3	SUEL-EST3 TERR	12.350	1.33	4943.3
	RELLEN MEDIANA	5.303	0.57	1035.5	VEGETAL	24.819	2.68	48832.1
	TERRAPLEN	532.619	57.74	198966.3				
3691.000	EXC SUELO 1	73.908	74.18	9554.5	SUEL-EST3 TERR	12.348	12.35	4955.6
	RELLEN MEDIANA	5.320	5.31	1040.8	VEGETAL	24.637	24.73	48856.8
	TERRAPLEN	487.714	510.17	199476.5				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3691.085	EXC SUELO 1	73.841	6.28	9560.8	SUEL-EST3 TERR	12.348	1.05	4956.7
	RELLEN MEDIANA	5.321	0.45	1041.3	VEGETAL	24.614	2.09	48858.9
	TERRAPLEN	485.429	41.36	199517.8				
3691.096	EXC SUELO 1	69.435	0.79	9561.6	SUEL-EST3 TERR	12.348	0.14	4956.8
	RELLEN MEDIANA	5.321	0.06	1041.3	VEGETAL	23.145	0.26	48859.1
	TERRAPLEN	471.161	5.26	199523.1				
3691.100	EXC SUELO 1	69.431	0.28	9561.8	SUEL-EST3 TERR	15.293	0.06	4956.9
	RELLEN MEDIANA	5.323	0.02	1041.3	VEGETAL	23.144	0.09	48859.2
	TERRAPLEN	489.875	1.92	199525.0				
3691.105	EXC SUELO 1	69.429	0.35	9562.2	SUEL-EST3 TERR	15.293	0.08	4956.9
	RELLEN MEDIANA	5.323	0.03	1041.4	VEGETAL	23.143	0.12	48859.4
	TERRAPLEN	489.718	2.45	199527.5				
3698.442	EXC SUELO 1	64.727	492.15	10054.3	SUEL-EST3 TERR	15.223	111.95	5068.9
	RELLEN MEDIANA	5.431	39.45	1080.8	VEGETAL	21.575	164.05	49023.4
	TERRAPLEN	268.192	2780.40	202307.8				
3700.000	EXC SUELO 1	63.823	100.14	10154.5	SUEL-EST3 TERR	15.210	23.71	5092.6
	RELLEN MEDIANA	5.454	8.48	1089.3	VEGETAL	21.275	33.38	49056.8
	TERRAPLEN	223.330	382.90	202690.7				
3704.999	EXC SUELO 1	63.014	317.03	10471.5	EXC SUELO 2	6.128	15.32	6906.1
	SUEL-EST3 DESM	0.076	0.19	1549.4	SUEL-EST3 TERR	14.991	75.49	5168.1
	RELLEN MEDIANA	5.526	27.44	1116.7	VEGETAL	21.005	105.68	49162.5
	TERRAPLEN	65.676	722.37	203413.1				
3705.000	EXC SUELO 3	0.151	0.00	254058.0	EXC SUELO 1	119.026	0.09	10471.6
	SUEL-EST3 TERR	15.066	0.02	5168.1	RELLEN MEDIANA	5.525	0.01	1116.8
	VEGETAL	21.005	0.02	49162.5	TERRAPLEN	115.693	0.09	203413.2
3706.445	EXC SUELO 3	16.669	12.15	254070.2	EXC SUELO 1	120.107	172.77	10644.4
	SUELO ADECUADO	12.806	9.25	362.6	SUEL-EST3 TERR	15.004	21.73	5189.8
	RELLEN MEDIANA	15.955	15.52	1132.3	RELLEN ARCENES	0.611	0.44	335.3
	VEGETAL	21.195	30.49	49193.0	TERRAPLEN	65.154	130.66	203543.9
3706.455	EXC SUELO 3	16.789	0.17	254070.3	EXC SUELO 1	124.708	1.22	10645.6
	SUELO ADECUADO	12.805	0.13	362.7	SUEL-EST3 TERR	15.366	0.15	5190.0
	RELLEN MEDIANA	15.993	0.16	1132.4	RELLEN ARCENES	0.611	0.01	335.3
	VEGETAL	22.008	0.22	49193.2	TERRAPLEN	71.250	0.68	203544.5
3710.000	EXC SUELO 3	90.186	189.61	254260.0	EXC SUELO 1	126.216	444.76	11090.4
	SUELO ADECUADO	35.990	86.49	449.2	SUEL-EST3 TERR	15.135	54.06	5244.0
	RELLEN MEDIANA	18.782	61.64	1194.1	RELLEN ARCENES	0.492	1.96	337.3
	VEGETAL	22.274	78.49	49271.7	TERRAPLEN	7.372	139.36	203683.9

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3720.000	EXC ROCA 1	43.531	217.65	373467.5	EXC SUELO 3	289.263	1897.24	256157.2
	EXC SUELO 1	138.338	1322.77	12413.1	SUELO ADECUADO	0.000	179.95	629.2
	SUEL-EST3 DESM	8.539	42.69	1592.1	SUEL-EST3 TERR	0.000	75.67	5319.7
	RELLEN MEDIANA	0.026	94.04	1288.1	RELLEN ARCENES	0.000	2.46	339.7
	VEGETAL	24.413	233.43	49505.1	TERRAPLEN	3.679	55.26	203739.2
3726.000	EXC ROCA 1	164.006	622.61	374090.1	EXC SUELO 3	310.473	1799.21	257956.4
	EXC SUELO 1	145.231	850.71	13263.8	SUEL-EST3 DESM	0.000	25.62	1617.7
	RELLEN MEDIANA	0.118	0.43	1288.5	VEGETAL	25.630	150.13	49655.2
	TERRAPLEN	3.902	22.74	203761.9				
4585.000	EXC ROCA 1	113.524	0.00	374090.1	EXC SUELO 3	276.348	0.00	257956.4
	EXC SUELO 1	63.531	0.00	13263.8	SUEL-EST3 DESM	0.409	0.00	1617.7
	RELLEN ARCENES	0.603	0.00	339.7	VEGETAL	19.060	0.00	49655.2
	TERRAPLEN	1.646	0.00	203761.9				
4587.900	EXC ROCA 1	79.559	279.97	374370.1	EXC SUELO 3	263.547	782.85	258739.3
	EXC SUELO 1	62.786	183.16	13447.0	SUEL-EST3 DESM	1.578	2.88	1620.6
	RELLEN ARCENES	0.623	1.78	341.5	VEGETAL	18.836	54.95	49710.2
	TERRAPLEN	1.653	4.78	203766.7				
4587.990	EXC ROCA 1	74.460	6.93	374377.0	EXC SUELO 3	256.251	23.39	258762.7
	EXC SUELO 1	61.813	5.61	13452.6	SUEL-EST3 DESM	1.606	0.14	1620.8
	RELLEN ARCENES	0.623	0.06	341.6	VEGETAL	18.544	1.68	49711.9
	TERRAPLEN	2.475	0.19	203766.9				
4588.000	EXC ROCA 2	30.147	0.15	531465.5	EXC ROCA 1	183.981	1.29	374378.3
	EXC SUELO 3	367.531	3.12	258765.8	EXC SUELO 1	81.429	0.72	13453.3
	SUEL-EST3 DESM	1.610	0.02	1620.8	RELLEN ARCENES	0.623	0.01	341.6
	VEGETAL	24.429	0.21	49712.1	TERRAPLEN	1.651	0.02	203766.9
4589.999	EXC ROCA 2	27.279	57.40	531522.9	EXC ROCA 1	155.866	339.68	374718.0
	EXC SUELO 3	363.333	730.50	259496.3	EXC SUELO 1	80.972	162.32	13615.6
	SUEL-EST3 DESM	2.310	3.92	1624.7	RELLEN ARCENES	0.626	1.25	342.8
	VEGETAL	24.292	48.70	49760.8	TERRAPLEN	1.615	3.26	203770.2
4590.000	EXC ROCA 2	0.000	0.01	531522.9	EXC ROCA 1	530.089	0.34	374718.3
	EXC SUELO 3	252.789	0.31	259496.6	EXC SUELO 1	0.000	0.04	13615.7
	RELLEN ARCENES	92.565	0.05	342.9	VEGETAL	24.292	0.02	49760.8
	TERRAPLEN	0.043	0.00	203770.2				
4600.000	EXC ROCA 1	367.890	4489.90	379208.2	EXC SUELO 3	231.991	2423.90	261920.5
	RELLEN ARCENES	82.627	875.96	1218.8	VEGETAL	23.710	240.01	50000.8
	TERRAPLEN	0.043	0.43	203770.6				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4609.999	EXC ROCA 1	273.255	3205.40	382413.6	EXC SUELO 3	221.409	2266.77	264187.3
	SUEL-EST3 DESM	0.441	2.20	1626.9	RELLEN ARCENES	66.432	745.22	1964.0
	VEGETAL	22.710	232.08	50232.9	TERRAPLEN	0.043	0.43	203771.0
4610.000	EXC ROCA 1	0.000	0.14	382413.8	EXC SUELO 3	514.995	0.37	264187.6
	SUEL-EST3 DESM	14.822	0.01	1626.9	RELLEN MEDIANA	2.682	0.00	1288.5
	RELLEN ARCENES	69.706	0.07	1964.1	VEGETAL	22.710	0.02	50232.9
	TERRAPLEN	0.043	0.00	203771.0				
4620.000	EXC SUELO 3	396.168	4555.82	268743.4	SUEL-EST3 DESM	14.946	148.84	1775.7
	RELLEN MEDIANA	2.328	25.05	1313.6	RELLEN ARCENES	46.108	579.07	2543.2
	VEGETAL	21.445	220.78	50453.7	TERRAPLEN	0.043	0.43	203771.4
4625.000	EXC SUELO 3	319.752	1789.80	270533.2	SUEL-EST3 DESM	15.008	74.88	1850.6
	RELLEN MEDIANA	2.167	11.24	1324.8	RELLEN ARCENES	35.566	204.18	2747.4
	VEGETAL	20.863	105.77	50559.5	TERRAPLEN	0.043	0.21	203771.7
4630.000	EXC SUELO 3	227.242	1367.49	271900.7	SUEL-EST3 DESM	15.008	75.04	1925.7
	RELLEN MEDIANA	2.006	10.43	1335.3	RELLEN ARCENES	27.383	157.37	2904.7
	VEGETAL	20.239	102.75	50662.2	TERRAPLEN	0.124	0.42	203772.1
4634.110	EXC SUELO 3	154.195	783.85	272684.6	SUEL-EST3 DESM	14.328	60.29	1985.9
	SUEL-EST3 TERR	0.660	1.36	5321.1	RELLEN MEDIANA	1.886	8.00	1343.3
	RELLEN ARCENES	18.624	94.54	2999.3	VEGETAL	18.834	80.29	50742.5
	TERRAPLEN	0.001	0.26	203772.3				
4639.999	EXC SUELO 3	101.011	751.46	273436.0	SUEL-EST3 DESM	11.674	76.56	2062.5
	SUEL-EST3 TERR	3.435	12.06	5333.1	RELLEN MEDIANA	1.713	10.60	1353.9
	RELLEN ARCENES	13.562	94.77	3094.0	VEGETAL	18.861	110.99	50853.5
	TERRAPLEN	6.329	18.64	203791.0				
4640.000	EXC SUELO 3	0.000	0.05	273436.1	EXC SUELO 2	95.891	0.05	6906.1
	SUEL-EST3 DESM	11.383	0.01	2062.5	SUEL-EST3 TERR	3.726	0.00	5333.1
	RELLEN MEDIANA	1.713	0.00	1353.9	RELLEN ARCENES	13.562	0.01	3094.1
	VEGETAL	25.147	0.02	50853.5	TERRAPLEN	7.507	0.01	203791.0
4640.500	EXC SUELO 2	91.773	46.92	6953.0	SUEL-EST3 DESM	11.113	5.62	2068.1
	SUEL-EST3 TERR	3.996	1.93	5335.0	RELLEN MEDIANA	1.700	0.85	1354.7
	RELLEN ARCENES	13.575	6.78	3100.8	VEGETAL	25.158	12.58	50866.1
	TERRAPLEN	8.533	4.01	203795.0				
4641.510	EXC SUELO 2	34.189	63.61	7016.6	SUEL-EST3 DESM	7.163	9.23	2077.4
	SUEL-EST3 TERR	4.646	4.36	5339.4	RELLEN MEDIANA	1.673	1.70	1356.4
	RELLEN ARCENES	3.371	8.56	3109.4	VEGETAL	19.781	22.69	50888.8
	TERRAPLEN	10.912	9.82	203804.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4650.000	EXC SUELO 2	4.252	163.18	7179.8	SUEL-EST3 DESM	2.281	40.09	2117.5
	SUEL-EST3 TERR	9.524	60.15	5399.6	RELLEN MEDIANA	1.450	13.26	1369.7
	RELLEN ARCENES	0.469	16.30	3125.7	VEGETAL	19.632	167.31	51056.1
	TERRAPLEN	45.276	238.52	204043.3				
4651.780	EXC SUELO 2	1.504	5.12	7184.9	SUEL-EST3 DESM	1.181	3.08	2120.5
	SUEL-EST3 TERR	10.623	17.93	5417.5	RELLEN MEDIANA	1.408	2.54	1372.2
	RELLEN ARCENES	0.134	0.54	3126.2	VEGETAL	19.768	35.07	51091.2
	TERRAPLEN	59.259	93.04	204136.4				
4653.704	EXC SUELO 2	0.405	1.84	7186.8	SUEL-EST3 DESM	0.255	1.38	2121.9
	SUEL-EST3 TERR	11.401	21.19	5438.7	RELLEN MEDIANA	1.363	2.67	1374.9
	RELLEN ARCENES	0.191	0.31	3126.6	VEGETAL	19.264	37.55	51128.7
	TERRAPLEN	70.472	124.80	204261.2				
4655.622	EXC SUELO 2	0.028	0.42	7187.2	SUEL-EST3 DESM	0.000	0.24	2122.2
	SUEL-EST3 TERR	11.857	22.30	5461.0	RELLEN MEDIANA	1.319	2.57	1377.5
	RELLEN ARCENES	0.221	0.39	3126.9	VEGETAL	19.554	37.23	51165.9
	TERRAPLEN	82.555	146.75	204407.9				
4657.536	EXC SUELO 2	0.000	0.03	7187.2	SUEL-EST3 TERR	12.230	23.05	5484.0
	RELLEN MEDIANA	1.274	2.48	1379.9	RELLEN ARCENES	0.000	0.21	3127.2
	VEGETAL	19.794	37.66	51203.6	TERRAPLEN	92.497	167.52	204575.4
4658.155	SUEL-EST3 TERR	12.246	7.58	5491.6	RELLEN MEDIANA	1.259	0.78	1380.7
	VEGETAL	19.858	12.27	51215.9	TERRAPLEN	94.761	57.96	204633.4
4658.156	SUEL-EST3 TERR	12.246	0.01	5491.6	RELLEN MEDIANA	1.259	0.00	1380.7
	VEGETAL	19.858	0.02	51215.9	TERRAPLEN	94.763	0.09	204633.5
4659.443	SUEL-EST3 TERR	12.258	15.77	5507.4	RELLEN MEDIANA	1.229	1.60	1382.3
	VEGETAL	19.968	25.63	51241.5	TERRAPLEN	99.287	124.87	204758.4
4660.000	SUEL-EST3 TERR	12.261	6.83	5514.2	RELLEN MEDIANA	1.216	0.68	1383.0
	VEGETAL	20.123	11.17	51252.7	TERRAPLEN	103.397	56.45	204814.8
4661.350	SUEL-EST3 TERR	12.269	16.56	5530.8	RELLEN MEDIANA	1.188	1.62	1384.6
	VEGETAL	20.292	27.28	51280.0	TERRAPLEN	111.534	145.08	204959.9
4663.252	SUEL-EST3 TERR	12.284	23.35	5554.1	RELLEN MEDIANA	1.150	2.22	1386.8
	VEGETAL	20.548	38.84	51318.8	TERRAPLEN	123.591	223.60	205183.5
4665.152	SUEL-EST3 TERR	12.302	23.36	5577.5	RELLEN MEDIANA	1.111	2.15	1389.0
	VEGETAL	20.802	39.28	51358.1	TERRAPLEN	132.460	243.25	205426.7
4667.049	SUEL-EST3 TERR	12.325	23.36	5600.9	RELLEN MEDIANA	1.072	2.07	1391.1
	VEGETAL	21.002	39.65	51397.7	TERRAPLEN	142.723	261.01	205687.8
4668.942	SUEL-EST3 TERR	12.351	23.36	5624.2	RELLEN MEDIANA	1.034	1.99	1393.1
	VEGETAL	21.095	39.85	51437.6	TERRAPLEN	154.600	281.42	205969.2

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4670.000	SUEL-EST3 TERR	12.368	13.08	5637.3	RELLEN MEDIANA	1.012	1.08	1394.1
	VEGETAL	21.222	22.39	51460.0	TERRAPLEN	161.322	167.12	206136.3
4670.833	SUEL-EST3 TERR	12.380	10.31	5647.6	RELLEN MEDIANA	0.997	0.84	1395.0
	VEGETAL	21.322	17.72	51477.7	TERRAPLEN	166.067	136.36	206272.6
4672.720	SUEL-EST3 TERR	12.412	23.39	5671.0	RELLEN MEDIANA	0.964	1.85	1396.8
	VEGETAL	21.538	40.44	51518.1	TERRAPLEN	174.832	321.64	206594.3
4674.604	SUEL-EST3 TERR	12.447	23.42	5694.4	RELLEN MEDIANA	0.931	1.79	1398.6
	VEGETAL	21.630	40.66	51558.8	TERRAPLEN	180.263	334.50	206928.8
4676.484	SUEL-EST3 TERR	12.488	23.44	5717.8	RELLEN MEDIANA	0.898	1.72	1400.3
	VEGETAL	21.998	41.01	51599.8	TERRAPLEN	190.282	348.31	207277.1
4678.360	SUEL-EST3 TERR	12.535	23.47	5741.3	RELLEN MEDIANA	0.865	1.65	1402.0
	VEGETAL	22.380	41.63	51641.4	TERRAPLEN	199.331	365.46	207642.6
4680.000	SUEL-EST3 TERR	12.579	20.59	5761.9	RELLEN MEDIANA	0.837	1.40	1403.4
	VEGETAL	22.948	37.17	51678.6	TERRAPLEN	235.438	356.51	207999.1
4680.232	SUEL-EST3 TERR	12.586	2.92	5764.8	RELLEN MEDIANA	0.833	0.19	1403.6
	VEGETAL	22.982	5.33	51683.9	TERRAPLEN	236.166	54.71	208053.8
4682.099	SUEL-EST3 TERR	12.638	23.55	5788.4	RELLEN MEDIANA	0.806	1.53	1405.1
	VEGETAL	23.191	43.10	51727.0	TERRAPLEN	241.945	446.32	208500.1
4682.201	SUEL-EST3 TERR	12.641	1.29	5789.7	RELLEN MEDIANA	0.805	0.08	1405.2
	VEGETAL	23.202	2.37	51729.4	TERRAPLEN	242.543	24.71	208524.8
4683.632	SUEL-EST3 TERR	12.686	18.12	5807.8	RELLEN MEDIANA	0.784	1.14	1406.3
	VEGETAL	23.343	33.30	51762.7	TERRAPLEN	274.966	370.28	208895.1
4683.963	SUEL-EST3 TERR	12.697	4.20	5812.0	RELLEN MEDIANA	0.779	0.26	1406.6
	VEGETAL	23.369	7.73	51770.4	TERRAPLEN	275.366	91.08	208986.2
4685.822	SUEL-EST3 TERR	12.764	23.67	5835.6	RELLEN MEDIANA	0.752	1.42	1408.0
	VEGETAL	23.522	43.59	51814.0	TERRAPLEN	277.850	514.21	209500.4
4687.668	SUEL-EST3 TERR	12.838	23.63	5859.3	RELLEN MEDIANA	0.725	1.36	1409.4
	VEGETAL	23.831	43.71	51857.7	TERRAPLEN	293.611	527.46	210027.8
4689.999	SUEL-EST3 TERR	12.940	30.04	5889.3	RELLEN MEDIANA	0.691	1.65	1411.0
	VEGETAL	24.680	56.54	51914.3	TERRAPLEN	339.833	738.28	210766.1
4690.000	EXC SUELO 1	154.247	0.08	13615.8	SUEL-EST3 TERR	12.940	0.01	5889.3
	RELLEN MEDIANA	0.691	0.00	1411.0	VEGETAL	24.680	0.02	51914.3
	TERRAPLEN	494.082	0.42	210766.5				
4690.083	EXC SUELO 1	154.333	12.81	13628.6	SUEL-EST3 TERR	12.944	1.07	5890.4
	RELLEN MEDIANA	0.690	0.06	1411.1	VEGETAL	24.693	2.05	51916.3
	TERRAPLEN	494.436	41.02	210807.5				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4692.208	EXC SUELO 1	158.797	332.70	13961.3	SUEL-EST3 TERR	13.043	27.61	5918.0
	RELLEN MEDIANA	0.665	1.44	1412.5	VEGETAL	25.408	53.23	51969.6
	TERRAPLEN	524.601	1082.73	211890.3				
4692.493	EXC SUELO 1	159.022	45.29	14006.5	SUEL-EST3 TERR	13.056	3.72	5921.7
	RELLEN MEDIANA	0.661	0.19	1412.7	VEGETAL	25.443	7.25	51976.8
	TERRAPLEN	525.848	149.69	212040.0				
4694.339	EXC SUELO 1	160.827	295.22	14301.8	SUEL-EST3 TERR	13.153	24.19	5945.9
	RELLEN MEDIANA	0.639	1.20	1413.9	VEGETAL	25.732	47.23	52024.0
	TERRAPLEN	535.262	979.40	213019.4				
4696.194	EXC SUELO 1	160.840	298.35	14600.1	SUEL-EST3 TERR	13.258	24.50	5970.4
	RELLEN MEDIANA	0.617	1.17	1415.1	VEGETAL	25.734	47.73	52071.8
	TERRAPLEN	538.365	995.79	214015.2				
4698.048	EXC SUELO 1	162.808	300.02	14900.1	SUEL-EST3 TERR	13.369	24.68	5995.1
	RELLEN MEDIANA	0.595	1.12	1416.2	VEGETAL	26.049	48.00	52119.8
	TERRAPLEN	556.675	1015.10	215030.3				
4699.903	EXC SUELO 1	164.288	303.38	15203.5	SUEL-EST3 TERR	13.487	24.91	6020.0
	RELLEN MEDIANA	0.572	1.08	1417.3	VEGETAL	26.285	48.54	52168.3
	TERRAPLEN	562.114	1037.68	216067.9				
4699.953	EXC SUELO 1	164.316	8.22	15211.7	SUEL-EST3 TERR	13.490	0.67	6020.7
	RELLEN MEDIANA	0.572	0.03	1417.3	VEGETAL	26.290	1.31	52169.6
	TERRAPLEN	562.215	28.11	216096.0				
4700.000	EXC SUELO 1	164.333	7.72	15219.5	SUEL-EST3 TERR	13.492	0.63	6021.3
	RELLEN MEDIANA	0.571	0.03	1417.3	VEGETAL	26.293	1.24	52170.9
	TERRAPLEN	562.273	26.43	216122.5				
4700.000	EXC SUELO 1	164.333	0.00	15219.5	SUEL-EST3 TERR	13.492	0.00	6021.3
	RELLEN MEDIANA	0.571	0.00	1417.3	VEGETAL	26.293	0.00	52170.9
	TERRAPLEN	562.273	0.00	216122.5				
4700.783	EXC SUELO 1	164.514	128.74	15348.2	SUEL-EST3 TERR	13.524	10.58	6031.9
	RELLEN MEDIANA	0.564	0.44	1417.8	VEGETAL	26.323	20.60	52191.5
	TERRAPLEN	562.991	440.54	216563.0				
4702.137	EXC SUELO 1	164.820	222.96	15571.2	SUEL-EST3 TERR	13.583	18.35	6050.3
	RELLEN MEDIANA	0.551	0.75	1418.5	VEGETAL	26.371	35.67	52227.1
	TERRAPLEN	563.975	762.96	217326.0				
4702.147	EXC SUELO 1	105.247	1.35	15572.5	SUEL-EST3 TERR	8.798	0.11	6050.4
	RELLEN MEDIANA	0.550	0.01	1418.5	VEGETAL	16.840	0.22	52227.4
	TERRAPLEN	377.515	4.71	217330.7				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4702.172	EXC SUELO 1	105.252	2.63	15575.1	SUEL-EST3 TERR	8.799	0.22	6050.6
	RELLEN MEDIANA	0.550	0.01	1418.6	VEGETAL	16.840	0.42	52227.8
	TERRAPLEN	377.531	9.44	217340.1				
4702.277	EXC SUELO 1	105.272	11.05	15586.2	SUEL-EST3 TERR	8.803	0.92	6051.5
	RELLEN MEDIANA	0.549	0.06	1418.6	VEGETAL	16.843	1.77	52229.6
	TERRAPLEN	377.580	39.64	217379.8				
4707.506	EXC SUELO 1	105.367	550.72	16136.9	SUEL-EST3 TERR	8.988	46.51	6098.0
	RELLEN MEDIANA	0.498	2.74	1421.4	VEGETAL	16.859	88.11	52317.7
	TERRAPLEN	378.563	1976.93	219356.7				
4709.356	EXC SUELO 1	105.577	195.12	16332.0	SUEL-EST3 TERR	9.074	16.71	6114.7
	RELLEN MEDIANA	0.480	0.91	1422.3	VEGETAL	16.892	31.22	52348.9
	TERRAPLEN	379.616	701.32	220058.0				
4710.000	EXC SUELO 1	105.772	68.05	16400.1	SUEL-EST3 TERR	9.106	5.85	6120.6
	RELLEN MEDIANA	0.474	0.31	1422.6	VEGETAL	16.923	10.89	52359.8
	TERRAPLEN	383.612	245.76	220303.8				
4717.929	EXC SUELO 1	104.518	833.69	17233.8	SUEL-EST3 TERR	9.357	73.20	6193.8
	RELLEN MEDIANA	0.414	3.52	1426.1	VEGETAL	16.723	133.39	52493.2
	TERRAPLEN	343.463	2882.49	223186.3				
4720.000	EXC SUELO 1	105.165	217.13	17450.9	SUEL-EST3 TERR	9.381	19.40	6213.2
	RELLEN MEDIANA	0.398	0.84	1426.9	VEGETAL	16.826	34.74	52527.9
	TERRAPLEN	345.448	713.37	223899.6				
4726.497	EXC SUELO 1	107.342	690.33	18141.2	SUEL-EST3 TERR	9.456	61.19	6274.4
	RELLEN MEDIANA	0.360	2.46	1429.4	VEGETAL	17.174	110.45	52638.4
	TERRAPLEN	351.710	2264.72	226164.3				
4727.547	EXC SUELO 1	107.718	112.91	18254.1	SUEL-EST3 TERR	9.471	9.94	6284.3
	RELLEN MEDIANA	0.354	0.37	1429.8	VEGETAL	17.235	18.06	52656.4
	TERRAPLEN	352.779	369.86	226534.2				
4730.000	EXC SUELO 1	108.815	265.58	18519.7	SUEL-EST3 TERR	9.505	23.27	6307.6
	RELLEN MEDIANA	0.340	0.85	1430.6	VEGETAL	17.410	42.49	52698.9
	TERRAPLEN	355.913	869.21	227403.4				
4735.064	EXC SUELO 1	111.089	556.80	19076.5	SUEL-EST3 TERR	9.577	48.32	6355.9
	RELLEN MEDIANA	0.318	1.67	1432.3	VEGETAL	17.774	89.09	52788.0
	TERRAPLEN	362.144	1818.12	229221.5				
4740.000	EXC SUELO 1	113.371	553.97	19630.5	SUEL-EST3 TERR	9.653	47.46	6403.4
	RELLEN MEDIANA	0.297	1.52	1433.8	VEGETAL	18.139	88.63	52876.6
	TERRAPLEN	367.114	1799.81	231021.3				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4742.932	EXC SUELO 1	114.732	334.40	19964.9	SUEL-EST3 TERR	9.698	28.37	6431.7
	RELLEN MEDIANA	0.288	0.86	1434.7	VEGETAL	18.357	53.50	52930.1
	TERRAPLEN	368.491	1078.40	232099.7				
4750.000	EXC SUELO 1	117.679	821.34	20786.2	SUEL-EST3 TERR	9.807	68.93	6500.7
	RELLEN MEDIANA	0.267	1.96	1436.6	VEGETAL	18.828	131.41	53061.5
	TERRAPLEN	370.534	2611.71	234711.4				
4753.489	EXC SUELO 1	118.037	411.21	21197.4	SUEL-EST3 TERR	9.862	34.31	6535.0
	RELLEN MEDIANA	0.261	0.92	1437.5	VEGETAL	18.884	65.79	53127.3
	TERRAPLEN	360.426	1275.16	235986.6				
4760.000	EXC SUELO 1	118.307	769.42	21966.8	SUEL-EST3 TERR	9.962	64.54	6599.5
	RELLEN MEDIANA	0.249	1.66	1439.2	VEGETAL	18.929	123.10	53250.4
	TERRAPLEN	340.569	2282.09	238268.7				
4761.328	EXC SUELO 1	118.700	157.37	22124.2	SUEL-EST3 TERR	9.982	13.24	6612.8
	RELLEN MEDIANA	0.247	0.33	1439.5	VEGETAL	18.992	25.18	53275.6
	TERRAPLEN	339.945	451.86	238720.6				
4763.321	EXC SUELO 1	118.936	236.80	22361.0	SUEL-EST3 TERR	10.013	19.93	6632.7
	RELLEN MEDIANA	0.245	0.49	1440.0	VEGETAL	19.030	37.89	53313.5
	TERRAPLEN	335.525	673.11	239393.7				
4764.427	EXC SUELO 1	119.339	131.77	22492.8	SUEL-EST3 TERR	10.030	11.08	6643.8
	RELLEN MEDIANA	0.244	0.27	1440.3	VEGETAL	19.094	21.08	53334.6
	TERRAPLEN	333.531	369.99	239763.6				
4764.999	EXC SUELO 1	119.547	68.32	22561.1	SUEL-EST3 TERR	10.039	5.74	6649.5
	RELLEN MEDIANA	0.244	0.14	1440.4	VEGETAL	19.128	10.93	53345.5
	TERRAPLEN	332.493	190.48	239954.1				
4765.000	EXC SUELO 1	0.000	0.06	22561.2	SUEL-EST3 TERR	10.039	0.01	6649.5
	RELLEN MEDIANA	0.243	0.00	1440.4	VEGETAL	19.128	0.02	53345.5
	TERRAPLEN	212.944	0.27	239954.4				
4765.313	SUEL-EST3 TERR	10.044	3.14	6652.7	RELLEN MEDIANA	0.243	0.08	1440.5
	VEGETAL	19.123	5.99	53351.5	TERRAPLEN	212.024	66.51	240020.9
4767.305	SUEL-EST3 TERR	10.076	20.04	6672.7	RELLEN MEDIANA	0.241	0.48	1441.0
	VEGETAL	18.758	37.73	53389.2	TERRAPLEN	190.014	400.43	240421.3
4769.297	SUEL-EST3 TERR	10.108	20.10	6692.8	RELLEN MEDIANA	0.239	0.48	1441.5
	VEGETAL	18.780	37.39	53426.6	TERRAPLEN	189.778	378.27	240799.6
4770.000	SUEL-EST3 TERR	10.120	7.11	6699.9	RELLEN MEDIANA	0.238	0.17	1441.6
	VEGETAL	18.784	13.20	53439.8	TERRAPLEN	189.502	133.32	240932.9
4771.289	SUEL-EST3 TERR	10.142	13.06	6713.0	RELLEN MEDIANA	0.238	0.31	1441.9
	VEGETAL	18.793	24.22	53464.1	TERRAPLEN	189.067	243.99	241176.9

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4773.280	SUEL-EST3 TERR	10.177	20.23	6733.2	RELLEN MEDIANA	0.237	0.47	1442.4
	VEGETAL	18.810	37.43	53501.5	TERRAPLEN	188.475	375.84	241552.8
4775.272	SUEL-EST3 TERR	10.215	20.31	6753.5	RELLEN MEDIANA	0.236	0.47	1442.9
	VEGETAL	18.551	37.21	53538.7	TERRAPLEN	176.786	363.80	241916.6
4775.480	SUEL-EST3 TERR	10.218	2.13	6755.6	RELLEN MEDIANA	0.236	0.05	1442.9
	VEGETAL	18.557	3.86	53542.6	TERRAPLEN	176.872	36.78	241953.3
4777.263	SUEL-EST3 TERR	10.253	18.25	6773.9	RELLEN MEDIANA	0.235	0.42	1443.4
	VEGETAL	18.608	33.13	53575.7	TERRAPLEN	177.615	316.03	242269.4
4779.253	SUEL-EST3 TERR	10.295	20.45	6794.3	RELLEN MEDIANA	0.234	0.47	1443.8
	VEGETAL	18.670	37.09	53612.8	TERRAPLEN	178.502	354.34	242623.7
4780.000	SUEL-EST3 TERR	10.311	7.70	6802.0	RELLEN MEDIANA	0.234	0.17	1444.0
	VEGETAL	17.892	13.66	53626.4	TERRAPLEN	147.424	121.73	242745.4
4781.242	SUEL-EST3 TERR	10.339	12.82	6814.9	RELLEN MEDIANA	0.234	0.29	1444.3
	VEGETAL	17.916	22.24	53648.7	TERRAPLEN	147.345	183.05	242928.5
4783.231	SUEL-EST3 TERR	10.386	20.61	6835.5	RELLEN MEDIANA	0.233	0.46	1444.8
	VEGETAL	17.990	35.71	53684.4	TERRAPLEN	148.390	294.11	243222.6
4784.854	SUEL-EST3 TERR	10.427	16.89	6852.4	RELLEN MEDIANA	0.233	0.38	1445.1
	VEGETAL	17.904	29.13	53713.5	TERRAPLEN	143.965	237.25	243459.8
4784.864	SUEL-EST3 TERR	10.427	0.10	6852.5	RELLEN MEDIANA	0.233	0.00	1445.1
	VEGETAL	17.903	0.18	53713.7	TERRAPLEN	143.940	1.44	243461.3
4785.220	SUEL-EST3 TERR	10.436	3.71	6856.2	RELLEN MEDIANA	0.233	0.08	1445.2
	VEGETAL	17.884	6.37	53720.1	TERRAPLEN	142.974	51.07	243512.4
4787.207	SUEL-EST3 TERR	10.490	20.79	6877.0	RELLEN MEDIANA	0.233	0.46	1445.7
	VEGETAL	17.700	35.35	53755.4	TERRAPLEN	138.405	279.55	243791.9
4788.357	SUEL-EST3 TERR	10.523	12.08	6889.0	RELLEN MEDIANA	0.233	0.27	1445.9
	VEGETAL	17.437	20.20	53775.6	TERRAPLEN	129.884	154.27	243946.2
4788.581	SUEL-EST3 TERR	10.526	2.36	6891.4	RELLEN MEDIANA	0.233	0.05	1446.0
	VEGETAL	17.416	3.90	53779.5	TERRAPLEN	128.353	28.92	243975.1
4788.591	SUEL-EST3 TERR	7.693	0.09	6891.5	RELLEN MEDIANA	0.233	0.00	1446.0
	VEGETAL	11.949	0.15	53779.7	TERRAPLEN	90.383	1.09	243976.2
4788.844	SUEL-EST3 TERR	7.697	1.95	6893.4	RELLEN MEDIANA	0.233	0.06	1446.1
	VEGETAL	11.926	3.02	53782.7	TERRAPLEN	88.648	22.65	243998.8
4788.845	SUEL-EST3 TERR	7.697	0.01	6893.5	RELLEN MEDIANA	0.233	0.00	1446.1
	VEGETAL	11.926	0.01	53782.7	TERRAPLEN	88.620	0.09	243998.9
4790.000	SUEL-EST3 TERR	7.714	8.90	6902.4	RELLEN MEDIANA	0.233	0.27	1446.3
	VEGETAL	11.851	13.73	53796.4	TERRAPLEN	78.192	96.33	244095.3
4798.923	SUEL-EST3 TERR	7.848	69.43	6971.8	RELLEN MEDIANA	0.233	2.08	1448.4
	VEGETAL	11.503	104.20	53900.6	TERRAPLEN	52.249	581.96	244677.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4800.000	SUEL-EST3 TERR	7.871	8.47	6980.2	RELLEN MEDIANA	0.233	0.25	1448.7
	VEGETAL	11.470	12.37	53913.0	TERRAPLEN	49.206	54.63	244731.8
4800.005	SUEL-EST3 TERR	7.871	0.04	6980.3	RELLEN MEDIANA	0.233	0.00	1448.7
	VEGETAL	11.470	0.06	53913.1	TERRAPLEN	49.188	0.25	244732.1
4807.551	SUEL-EST3 TERR	8.031	60.00	7040.3	RELLEN MEDIANA	0.233	1.75	1450.4
	VEGETAL	11.087	85.11	53998.2	TERRAPLEN	24.502	278.03	245010.1
4810.000	SUEL-EST3 TERR	7.966	19.59	7059.9	RELLEN MEDIANA	0.233	0.57	1451.0
	VEGETAL	10.933	26.96	54025.1	TERRAPLEN	16.693	50.44	245060.6
4813.667	EXC SUELO 2	2.109	3.87	7191.1	SUEL-EST3 DESM	1.144	2.10	2124.3
	SUEL-EST3 TERR	6.859	27.18	7087.1	RELLEN MEDIANA	0.233	0.85	1451.8
	RELLEN ARCENES	0.641	1.18	3128.3	VEGETAL	12.268	42.54	54067.7
	TERRAPLEN	5.371	40.45	245101.0				
4816.183	EXC SUELO 2	6.946	11.39	7202.5	SUEL-EST3 DESM	3.447	5.78	2130.0
	SUEL-EST3 TERR	4.100	13.79	7100.8	RELLEN MEDIANA	0.233	0.59	1452.4
	RELLEN ARCENES	1.003	2.07	3130.4	VEGETAL	12.278	30.88	54098.6
	TERRAPLEN	0.451	7.32	245108.4				
4819.023	EXC SUELO 2	18.250	35.78	7238.3	SUEL-EST3 DESM	7.803	15.97	2146.0
	SUEL-EST3 TERR	0.158	6.05	7106.9	RELLEN MEDIANA	0.233	0.66	1453.1
	RELLEN ARCENES	1.185	3.11	3133.5	VEGETAL	13.188	36.16	54134.7
	TERRAPLEN	0.083	0.76	245109.1				
4819.999	EXC SUELO 2	22.299	19.79	7258.0	SUEL-EST3 DESM	7.961	7.69	2153.7
	SUEL-EST3 TERR	0.000	0.08	7107.0	RELLEN MEDIANA	0.233	0.23	1453.3
	RELLEN ARCENES	1.233	1.18	3134.7	VEGETAL	13.324	12.94	54147.7
	TERRAPLEN	0.083	0.08	245109.2				
4820.000	EXC SUELO 3	22.306	0.01	273436.1	EXC SUELO 2	0.000	0.01	7258.0
	SUEL-EST3 DESM	7.961	0.01	2153.7	RELLEN MEDIANA	0.233	0.00	1453.3
	RELLEN ARCENES	1.233	0.00	3134.7	VEGETAL	13.324	0.01	54147.7
	TERRAPLEN	0.083	0.00	245109.2				
4825.582	EXC SUELO 3	44.595	186.72	273622.8	SUEL-EST3 DESM	7.961	44.44	2198.2
	RELLEN MEDIANA	0.233	1.30	1454.6	RELLEN ARCENES	1.283	7.02	3141.7
	VEGETAL	14.016	76.31	54224.0	TERRAPLEN	0.082	0.46	245109.7
4830.000	EXC SUELO 3	62.843	237.33	273860.1	SUEL-EST3 DESM	7.961	35.17	2233.3
	RELLEN MEDIANA	0.233	1.03	1455.6	RELLEN ARCENES	1.283	5.67	3147.4
	VEGETAL	14.579	63.17	54287.1	TERRAPLEN	0.102	0.41	245110.1
4833.466	EXC SUELO 3	74.679	238.32	274098.5	SUEL-EST3 DESM	7.961	27.59	2260.9
	RELLEN MEDIANA	0.233	0.81	1456.4	RELLEN ARCENES	1.283	4.45	3151.8
	VEGETAL	14.916	51.11	54338.3	TERRAPLEN	0.160	0.45	245110.5

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4839.942	EXC SUELO 3	97.209	556.57	274655.0	SUEL-EST3 DESM	7.962	51.56	2312.5
	RELLEN MEDIANA	0.233	1.51	1457.9	RELLEN ARCENES	1.283	8.31	3160.1
	VEGETAL	15.400	98.16	54436.4	TERRAPLEN	0.160	1.04	245111.5
4839.946	EXC SUELO 3	97.224	0.39	274655.4	SUEL-EST3 DESM	7.961	0.03	2312.5
	RELLEN MEDIANA	0.233	0.00	1457.9	RELLEN ARCENES	1.283	0.01	3160.1
	VEGETAL	15.401	0.06	54436.5	TERRAPLEN	0.160	0.00	245111.6

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 2	531522.9
EXC ROCA 1	382413.8
EXC SUELO 3	274655.4
EXC SUELO 1	22561.2
EXC SUELO 2	7258.0
SUELO ADECUADO	629.2
HM-20	124.9
SUEL-EST3 DESM	2312.5
SUEL-EST3 TERR	7107.0
RELLEN MEDIANA	1457.9
RELLEN ARCENES	3160.1
VEGETAL	54436.5
TERRAPLEN	245111.6

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3700.000	EXC SUELO 3	0.623	0.00	0.0	EXC SUELO 1	128.574	0.00	0.0
	VEGETAL	22.690	0.00	0.0	TERRAPLEN	166.333	0.00	0.0
3700.439	EXC SUELO 3	1.205	0.40	0.4	EXC SUELO 1	128.970	56.53	56.5
	VEGETAL	22.759	9.98	10.0	TERRAPLEN	152.118	69.90	69.9
3700.485	EXC SUELO 3	1.279	0.06	0.5	EXC SUELO 1	129.011	5.93	62.5
	VEGETAL	22.767	1.05	11.0	TERRAPLEN	150.645	6.96	76.9
3701.101	EXC SUELO 3	2.556	1.18	1.6	EXC SUELO 1	129.567	79.64	142.1
	VEGETAL	22.866	14.05	25.1	TERRAPLEN	131.096	86.78	163.6
3701.763	EXC SUELO 3	4.682	2.40	4.0	EXC SUELO 1	130.128	85.96	228.1
	VEGETAL	22.964	15.17	40.2	TERRAPLEN	110.744	80.05	243.7
3702.425	EXC SUELO 3	8.125	4.24	8.3	EXC SUELO 1	130.459	86.25	314.3
	VEGETAL	23.022	15.22	55.5	TERRAPLEN	91.585	66.97	310.7
3703.087	EXC SUELO 3	13.403	7.13	15.4	EXC SUELO 1	130.790	86.47	400.8
	VEGETAL	23.080	15.26	70.7	TERRAPLEN	74.203	54.88	365.5
3703.749	EXC SUELO 3	22.160	11.77	27.2	EXC SUELO 1	131.121	86.69	487.5
	VEGETAL	23.139	15.30	86.0	TERRAPLEN	60.248	44.50	410.0
3704.410	EXC SUELO 3	33.458	18.38	45.6	EXC SUELO 1	131.452	86.78	574.3
	VEGETAL	23.197	15.31	101.3	TERRAPLEN	48.828	36.05	446.1
3704.999	EXC SUELO 3	44.921	23.08	68.6	EXC SUELO 1	131.747	77.51	651.8
	VEGETAL	23.250	13.68	115.0	TERRAPLEN	40.002	26.16	472.2
3705.000	EXC SUELO 3	44.929	0.04	68.7	EXC SUELO 1	131.747	0.13	651.9
	VEGETAL	23.250	0.02	115.0	TERRAPLEN	39.992	0.04	472.3
3705.073	EXC SUELO 3	46.216	3.33	72.0	EXC SUELO 1	131.783	9.62	661.5
	VEGETAL	23.257	1.70	116.7	TERRAPLEN	38.877	2.88	475.2
3705.197	EXC SUELO 3	48.443	5.87	77.9	EXC SUELO 1	131.846	16.35	677.9
	VEGETAL	23.267	2.88	119.6	TERRAPLEN	37.025	4.71	479.9
3705.735	EXC SUELO 3	58.825	28.86	106.7	EXC SUELO 1	132.116	71.01	748.9
	VEGETAL	23.315	12.53	132.2	TERRAPLEN	29.678	17.94	497.8
3706.397	EXC SUELO 3	73.321	43.74	150.5	EXC SUELO 1	131.817	87.36	836.2
	VEGETAL	23.261	15.42	147.6	TERRAPLEN	21.527	16.95	514.8
3706.445	EXC SUELO 3	74.435	3.55	154.0	EXC SUELO 1	131.790	6.33	842.6
	VEGETAL	23.257	1.12	148.7	TERRAPLEN	20.988	1.02	515.8
3706.455	EXC SUELO 3	74.669	0.75	154.8	EXC SUELO 1	131.783	1.32	843.9
	VEGETAL	23.258	0.23	148.9	TERRAPLEN	20.876	0.21	516.0
3707.059	EXC SUELO 3	89.550	49.59	204.4	EXC SUELO 1	131.457	79.50	923.4
	VEGETAL	23.199	14.03	163.0	TERRAPLEN	14.931	10.81	526.8
3708.837	EXC SUELO 3	140.524	204.54	408.9	EXC SUELO 1	132.861	234.98	1158.4
	VEGETAL	23.447	41.47	204.4	TERRAPLEN	7.146	19.63	546.4

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PROYECTO : VARIANTE DE OURENSE
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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3709.909	EXC SUELO 3	173.848	168.50	577.4	EXC SUELO 1	134.667	143.40	1301.8
	VEGETAL	23.766	25.31	229.7	TERRAPLEN	4.993	6.51	552.9
3710.000	EXC SUELO 3	176.729	15.95	593.3	EXC SUELO 1	134.837	12.26	1314.0
	VEGETAL	23.795	2.16	231.9	TERRAPLEN	4.853	0.45	553.4
3714.619	EXC ROCA 1	44.042	101.72	101.7	EXC SUELO 3	279.081	1052.69	1646.0
	EXC SUELO 1	140.787	636.55	1950.6	VEGETAL	24.845	112.33	344.2
	TERRAPLEN	3.393	19.05	572.4				
3714.749	EXC ROCA 1	46.814	5.91	107.6	EXC SUELO 3	280.543	36.38	1682.4
	EXC SUELO 1	140.927	18.31	1968.9	VEGETAL	24.870	3.23	347.5
	TERRAPLEN	3.394	0.44	572.9				
3719.328	EXC ROCA 1	164.991	484.93	592.5	EXC SUELO 3	315.183	1363.92	3046.3
	EXC SUELO 1	146.295	657.60	2626.5	VEGETAL	25.817	116.05	463.5
	TERRAPLEN	3.438	15.64	588.5				
3720.000	EXC ROCA 1	185.177	117.66	710.2	EXC SUELO 3	318.665	212.97	3259.3
	EXC SUELO 1	147.407	98.68	2725.2	VEGETAL	26.013	17.42	480.9
	TERRAPLEN	3.465	2.32	590.8				
3721.223	EXC ROCA 1	215.000	244.71	954.9	EXC SUELO 3	322.847	392.28	3651.6
	EXC SUELO 1	149.154	181.35	2906.5	VEGETAL	26.341	32.01	512.9
	TERRAPLEN	3.559	4.30	595.1				
3724.037	EXC ROCA 1	284.957	703.44	1658.4	EXC SUELO 3	330.005	918.56	4570.2
	EXC SUELO 1	151.971	423.68	3330.2	VEGETAL	26.885	74.89	587.8
	TERRAPLEN	3.696	10.21	605.3				
3726.000	EXC ROCA 1	334.529	608.03	2266.4	EXC SUELO 3	334.434	652.15	5222.3
	EXC SUELO 1	153.667	299.98	3630.2	VEGETAL	27.219	53.10	640.9
	TERRAPLEN	3.761	7.32	612.7				
3727.700	EXC ROCA 1	388.902	614.92	2881.3	EXC SUELO 3	340.112	573.36	5795.7
	EXC SUELO 1	155.691	262.95	3893.1	VEGETAL	27.606	46.60	687.5
	TERRAPLEN	3.638	6.29	619.0				
3728.744	EXC ROCA 1	422.966	423.80	3305.1	EXC SUELO 3	344.135	357.18	6152.8
	EXC SUELO 1	157.301	163.38	4056.5	VEGETAL	27.909	28.98	716.5
	TERRAPLEN	3.627	3.79	622.7				
3730.000	EXC ROCA 1	464.726	557.47	3862.6	EXC SUELO 3	349.132	435.37	6588.2
	EXC SUELO 1	159.215	198.77	4255.3	VEGETAL	28.271	35.28	751.8
	TERRAPLEN	3.605	4.54	627.3				
3733.450	EXC ROCA 1	564.915	1776.13	5638.7	EXC SUELO 3	358.774	1221.14	7809.4
	EXC SUELO 1	162.902	555.65	4810.9	VEGETAL	28.987	98.77	850.6
	TERRAPLEN	3.668	12.55	639.8				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3734.177	EXC ROCA 1	586.409	418.51	6057.2	EXC SUELO 3	360.732	261.54	8070.9
	EXC SUELO 1	163.635	118.70	4929.6	VEGETAL	29.131	21.13	871.7
	TERRAPLEN	3.698	2.68	642.5				
3738.155	EXC ROCA 1	706.894	2572.38	8629.6	EXC SUELO 3	372.088	1457.58	9528.5
	EXC SUELO 1	168.289	660.20	5589.8	VEGETAL	30.035	117.68	989.4
	TERRAPLEN	3.907	15.12	657.6				
3740.000	EXC ROCA 1	762.549	1355.56	9985.1	EXC SUELO 3	376.191	690.29	10218.8
	EXC SUELO 1	169.775	311.86	5901.7	VEGETAL	30.334	55.69	1045.1
	TERRAPLEN	3.900	7.20	664.8				
3740.100	EXC ROCA 1	764.465	76.35	10061.5	EXC SUELO 3	376.330	37.63	10256.4
	EXC SUELO 1	169.859	16.98	5918.7	VEGETAL	30.350	3.03	1048.1
	TERRAPLEN	3.900	0.39	665.2				
3740.655	EXC ROCA 1	781.178	428.92	10490.4	EXC SUELO 3	377.672	209.24	10465.6
	EXC SUELO 1	170.317	94.40	6013.1	VEGETAL	30.443	16.87	1065.0
	TERRAPLEN	3.880	2.16	667.4				
3742.859	EXC ROCA 1	848.850	1796.29	12286.7	EXC SUELO 3	383.619	838.94	11304.6
	EXC SUELO 1	172.435	377.71	6390.8	VEGETAL	30.864	67.56	1132.5
	TERRAPLEN	3.828	8.49	675.9				
3747.136	EXC ROCA 1	985.724	3923.24	16209.9	EXC SUELO 3	397.213	1669.81	12974.4
	EXC SUELO 1	177.385	748.09	7138.9	VEGETAL	31.834	134.08	1266.6
	TERRAPLEN	3.804	16.32	692.2				
3747.562	EXC ROCA 1	1000.116	422.98	16632.9	EXC SUELO 3	398.954	169.58	13144.0
	EXC SUELO 1	178.090	75.72	7214.6	VEGETAL	31.969	13.59	1280.2
	TERRAPLEN	3.820	1.62	693.8				
3750.000	EXC ROCA 1	1082.396	2538.58	19171.5	EXC SUELO 3	407.778	983.41	14127.4
	EXC SUELO 1	181.599	438.46	7653.1	VEGETAL	32.649	78.77	1359.0
	TERRAPLEN	3.962	9.49	703.3				
3760.000	EXC ROCA 1	1474.916	12786.56	31958.1	EXC SUELO 3	437.044	4224.11	18351.5
	EXC SUELO 1	193.713	1876.56	9529.6	VEGETAL	35.047	338.48	1697.4
	TERRAPLEN	4.402	41.82	745.1				
4420.000	EXC ROCA 2	588.400	0.00	0.0	EXC ROCA 1	259.574	0.00	31958.1
	EXC SUELO 3	295.561	0.00	18351.5	EXC SUELO 1	63.029	0.00	9529.6
	VEGETAL	19.164	0.00	1697.4				
4430.000	EXC ROCA 2	471.954	5301.77	5301.8	EXC ROCA 1	261.089	2603.31	34561.4
	EXC SUELO 3	296.544	2960.52	21312.0	EXC SUELO 1	63.220	631.24	10160.9
	VEGETAL	19.221	191.92	1889.4				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4436.011	EXC ROCA 2	461.535	2805.60	8107.4	EXC ROCA 1	258.311	1561.06	36122.4
	EXC SUELO 3	293.305	1772.79	23084.8	EXC SUELO 1	62.477	377.78	10538.6
	VEGETAL	18.992	114.85	2004.2				
4440.000	EXC ROCA 2	455.068	1828.16	9935.5	EXC ROCA 1	256.767	1027.32	37149.8
	EXC SUELO 3	291.458	1166.31	24251.1	EXC SUELO 1	62.048	248.37	10787.0
	VEGETAL	18.858	75.49	2079.7				
4441.816	EXC ROCA 2	452.866	824.40	10759.9	EXC ROCA 1	256.879	466.39	37616.1
	EXC SUELO 3	291.528	529.35	24780.5	EXC SUELO 1	62.061	112.69	10899.7
	VEGETAL	18.862	34.25	2113.9				
4447.621	EXC ROCA 2	445.532	2607.60	13367.5	EXC ROCA 1	257.150	1491.97	39108.1
	EXC SUELO 3	291.667	1692.72	26473.2	EXC SUELO 1	62.087	360.34	11260.0
	VEGETAL	18.872	109.52	2223.5				
4450.000	EXC ROCA 2	442.396	1056.19	14423.7	EXC ROCA 1	257.224	611.85	39720.0
	EXC SUELO 3	291.688	693.90	27167.1	EXC SUELO 1	62.091	147.71	11407.7
	VEGETAL	18.871	44.89	2268.4				
4451.602	EXC ROCA 2	442.782	709.03	15132.8	EXC ROCA 1	257.192	412.05	40132.0
	EXC SUELO 3	291.624	467.23	27634.3	EXC SUELO 1	62.076	99.46	11507.2
	VEGETAL	18.866	30.23	2298.6				
4451.625	EXC ROCA 2	406.747	9.77	15142.5	EXC ROCA 1	241.014	5.73	40137.7
	EXC SUELO 3	275.445	6.52	27640.8	EXC SUELO 1	58.840	1.39	11508.6
	VEGETAL	17.896	0.42	2299.0				
4453.428	EXC ROCA 2	729.287	1024.13	16166.7	EXC ROCA 1	376.634	556.81	40694.5
	EXC SUELO 3	411.029	618.86	28259.7	EXC SUELO 1	85.955	130.53	11639.1
	VEGETAL	26.031	39.60	2338.6				
4453.948	EXC ROCA 2	836.565	407.12	16573.8	EXC ROCA 1	415.747	206.02	40900.6
	EXC SUELO 3	450.131	223.90	28483.6	EXC SUELO 1	93.775	46.73	11685.9
	VEGETAL	28.376	14.15	2352.8				
4453.953	EXC ROCA 2	406.840	3.11	16576.9	EXC ROCA 1	240.531	1.64	40902.2
	EXC SUELO 3	274.915	1.81	28485.4	EXC SUELO 1	58.731	0.38	11686.2
	VEGETAL	17.863	0.12	2352.9				
4453.953	EXC ROCA 2	390.597	0.00	16576.9	EXC ROCA 1	219.427	0.00	40902.2
	EXC SUELO 3	246.010	0.00	28485.4	EXC SUELO 1	53.243	0.00	11686.2
	VEGETAL	15.973	0.00	2352.9	TERRAPLEN	0.899	0.00	745.1
4454.126	EXC ROCA 2	807.730	103.66	16680.5	EXC ROCA 1	394.630	53.12	40955.3
	EXC SUELO 3	421.214	57.71	28543.1	EXC SUELO 1	88.284	12.24	11698.5
	VEGETAL	26.486	3.67	2356.5	TERRAPLEN	0.899	0.16	745.3

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4460.000	EXC ROCA 2	788.445	4687.97	21368.5	EXC ROCA 1	394.417	2317.43	43272.8
	EXC SUELO 3	421.103	2473.88	31017.0	EXC SUELO 1	88.277	518.56	12217.0
	VEGETAL	26.482	155.57	2512.1	TERRAPLEN	0.902	5.29	750.6
4460.004	EXC ROCA 2	788.421	3.15	21371.7	EXC ROCA 1	394.416	1.58	43274.3
	EXC SUELO 3	421.102	1.68	31018.7	EXC SUELO 1	88.277	0.35	12217.4
	VEGETAL	26.484	0.11	2512.2	TERRAPLEN	0.902	0.00	750.6
4466.228	EXC ROCA 2	742.656	4764.71	26136.4	EXC ROCA 1	391.705	2446.41	45720.7
	EXC SUELO 3	418.763	2613.66	33632.3	EXC SUELO 1	87.865	548.16	12765.5
	VEGETAL	26.359	164.45	2676.7	TERRAPLEN	0.915	5.65	756.2
4470.000	EXC ROCA 2	714.745	2748.66	28885.0	EXC ROCA 1	389.821	1473.96	47194.7
	EXC SUELO 3	417.001	1576.25	35208.6	EXC SUELO 1	87.532	330.80	13096.3
	VEGETAL	26.260	99.24	2775.9	TERRAPLEN	0.919	3.46	759.7
4472.459	EXC ROCA 2	691.908	1729.48	30614.5	EXC ROCA 1	388.621	957.09	48151.8
	EXC SUELO 3	415.772	1023.89	36232.5	EXC SUELO 1	87.281	214.93	13311.3
	VEGETAL	26.185	64.48	2840.4	TERRAPLEN	0.918	2.26	761.9
4476.468	EXC ROCA 2	654.453	2698.78	33313.3	EXC ROCA 1	386.492	1553.71	49705.5
	EXC SUELO 3	413.531	1662.34	37894.8	EXC SUELO 1	86.816	348.98	13660.3
	VEGETAL	26.045	104.69	2945.1	TERRAPLEN	0.914	3.67	765.6
4478.506	EXC ROCA 2	635.187	1314.14	34627.4	EXC ROCA 1	385.298	786.45	50492.0
	EXC SUELO 3	412.262	841.48	38736.3	EXC SUELO 1	86.551	176.66	13836.9
	VEGETAL	25.965	53.00	2998.1	TERRAPLEN	0.911	1.86	767.5
4478.698	EXC ROCA 2	633.369	121.78	34749.2	EXC ROCA 1	385.195	73.97	50565.9
	EXC SUELO 3	412.159	79.14	38815.5	EXC SUELO 1	86.530	16.62	13853.5
	VEGETAL	25.959	4.98	3003.1	TERRAPLEN	0.911	0.17	767.7
4480.000	EXC ROCA 2	621.057	816.63	35565.9	EXC ROCA 1	384.507	501.08	51067.0
	EXC SUELO 3	411.467	536.18	39351.6	EXC SUELO 1	86.391	112.57	13966.1
	VEGETAL	25.918	33.77	3036.8	TERRAPLEN	0.911	1.19	768.8
4484.942	EXC ROCA 2	592.537	2998.79	38564.6	EXC ROCA 1	376.027	1879.28	52946.3
	EXC SUELO 3	403.578	2013.98	41365.6	EXC SUELO 1	84.472	422.20	14388.3
	VEGETAL	25.342	126.66	3163.5	TERRAPLEN	0.869	4.40	773.2
4490.000	EXC ROCA 2	563.418	2923.41	41488.1	EXC ROCA 1	362.349	1867.35	54813.6
	EXC SUELO 3	389.783	2006.41	43372.0	EXC SUELO 1	81.750	420.38	14808.7
	VEGETAL	24.525	126.12	3289.6	TERRAPLEN	0.673	3.90	777.1
4491.194	EXC ROCA 2	559.315	670.27	42158.3	EXC ROCA 1	358.465	430.33	55244.0
	EXC SUELO 3	384.873	462.47	43834.5	EXC SUELO 1	80.891	97.10	14905.8
	VEGETAL	24.267	29.13	3318.7	TERRAPLEN	0.871	0.92	778.1

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4497.224	EXC ROCA 2	545.411	3330.75	45489.1	EXC ROCA 1	349.631	2134.91	57378.9
	EXC SUELO 3	374.765	2290.31	46124.8	EXC SUELO 1	78.739	481.29	15387.1
	VEGETAL	23.622	144.39	3463.1	TERRAPLEN	0.841	5.16	783.2
4500.000	EXC ROCA 2	539.650	1506.06	46995.1	EXC ROCA 1	346.823	966.68	58345.5
	EXC SUELO 3	371.879	1036.34	47161.1	EXC SUELO 1	78.184	217.81	15604.9
	VEGETAL	23.456	65.34	3528.5	TERRAPLEN	0.847	2.34	785.6
4503.718	EXC ROCA 2	525.389	1979.91	48975.0	EXC ROCA 1	343.709	1283.70	59629.2
	EXC SUELO 3	368.295	1375.98	48537.1	EXC SUELO 1	77.396	289.22	15894.1
	VEGETAL	23.219	86.77	3615.2	TERRAPLEN	0.831	3.12	788.7
4506.762	EXC ROCA 2	513.572	1581.30	50556.3	EXC ROCA 1	341.037	1042.18	60671.4
	EXC SUELO 3	365.186	1116.36	49653.5	EXC SUELO 1	76.708	234.55	16128.6
	VEGETAL	23.012	70.36	3685.6	TERRAPLEN	0.816	2.51	791.2
4509.990	EXC ROCA 2	500.707	1637.05	52193.4	EXC ROCA 1	338.245	1096.36	61767.8
	EXC SUELO 3	362.028	1173.72	50827.2	EXC SUELO 1	76.021	246.50	16375.2
	VEGETAL	22.806	73.95	3759.6	TERRAPLEN	0.804	2.61	793.8
4510.000	EXC ROCA 2	500.672	5.01	52198.4	EXC ROCA 1	338.241	3.38	61771.2
	EXC SUELO 3	362.024	3.62	50830.8	EXC SUELO 1	76.020	0.76	16375.9
	VEGETAL	22.806	0.23	3759.8	TERRAPLEN	0.804	0.01	793.8
4517.250	EXC ROCA 2	458.483	3476.94	55675.3	EXC ROCA 1	335.255	2441.42	64212.6
	EXC SUELO 3	359.333	2614.92	53445.7	EXC SUELO 1	75.514	549.31	16925.2
	VEGETAL	22.654	164.79	3924.6	TERRAPLEN	0.811	5.85	799.7
4520.000	EXC ROCA 2	442.342	1238.64	56914.0	EXC ROCA 1	333.990	920.21	65132.8
	EXC SUELO 3	358.194	986.60	54432.3	EXC SUELO 1	75.296	207.36	17132.6
	VEGETAL	22.589	62.21	3986.8	TERRAPLEN	0.813	2.23	801.9
4523.069	EXC ROCA 2	420.163	1323.51	58237.5	EXC ROCA 1	328.118	1016.00	66148.8
	EXC SUELO 3	355.120	1094.58	55526.9	EXC SUELO 1	75.028	230.67	17363.3
	VEGETAL	22.509	69.20	4056.0	TERRAPLEN	0.874	2.59	804.5
4528.891	EXC ROCA 2	381.054	2332.34	60569.8	EXC ROCA 1	316.255	1875.77	68024.6
	EXC SUELO 3	346.383	2042.08	57569.0	EXC SUELO 1	74.356	434.86	17798.1
	VEGETAL	22.307	130.46	4186.5	TERRAPLEN	1.012	5.49	810.0
4530.000	EXC ROCA 2	373.853	418.60	60988.4	EXC ROCA 1	313.127	348.99	68373.6
	EXC SUELO 3	341.904	381.66	57950.7	EXC SUELO 1	73.639	82.06	17880.2
	VEGETAL	22.092	24.62	4211.1	TERRAPLEN	1.011	1.12	811.1
4534.684	EXC ROCA 2	360.282	1719.34	62707.8	EXC ROCA 1	305.790	1449.50	69823.1
	EXC SUELO 3	328.619	1570.37	59521.0	EXC SUELO 1	69.722	335.75	18215.9
	VEGETAL	20.917	100.73	4311.8	TERRAPLEN	0.892	4.46	815.6

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4535.628	EXC ROCA 2	357.767	338.92	63046.7	EXC ROCA 1	304.941	288.26	70111.3
	EXC SUELO 3	327.686	309.78	59830.8	EXC SUELO 1	69.417	65.67	18281.6
	VEGETAL	20.826	19.70	4331.5	TERRAPLEN	0.874	0.83	816.4
4536.649	EXC ROCA 2	364.576	368.76	63415.4	EXC ROCA 1	317.573	317.79	70429.1
	EXC SUELO 3	346.815	344.33	60175.1	EXC SUELO 1	74.140	73.29	18354.9
	VEGETAL	22.242	21.99	4353.5	TERRAPLEN	1.082	1.00	817.4
4538.579	EXC ROCA 2	369.109	708.01	64123.4	EXC ROCA 1	336.143	630.84	71060.0
	EXC SUELO 3	378.162	699.60	60874.7	EXC SUELO 1	82.813	151.46	18506.3
	VEGETAL	24.844	45.44	4398.9	TERRAPLEN	1.805	2.79	820.2
4540.000	EXC ROCA 2	364.471	521.21	64644.7	EXC ROCA 1	336.184	477.69	71537.7
	EXC SUELO 3	384.069	541.57	61416.3	EXC SUELO 1	89.151	122.18	18628.5
	VEGETAL	26.746	36.65	4435.6	TERRAPLEN	1.838	2.59	822.8
4542.434	EXC ROCA 2	334.316	850.42	65495.1	EXC ROCA 1	299.493	773.62	72311.3
	EXC SUELO 3	322.255	859.60	62275.9	EXC SUELO 1	67.898	191.13	18819.7
	VEGETAL	20.370	57.34	4492.9	TERRAPLEN	0.766	3.17	825.9
4544.361	EXC ROCA 2	325.335	635.57	66130.6	EXC ROCA 1	298.423	576.09	72887.4
	EXC SUELO 3	321.159	619.93	62895.8	EXC SUELO 1	67.668	130.62	18950.3
	VEGETAL	20.301	39.19	4532.1	TERRAPLEN	0.764	1.47	827.4
4548.208	EXC ROCA 2	307.846	1217.92	67348.6	EXC ROCA 1	296.256	1143.87	74031.2
	EXC SUELO 3	318.905	1231.16	64127.0	EXC SUELO 1	67.192	259.40	19209.7
	VEGETAL	20.158	77.82	4609.9	TERRAPLEN	0.757	2.92	830.3
4548.912	EXC ROCA 2	304.717	215.62	67564.2	EXC ROCA 1	295.867	208.43	74239.7
	EXC SUELO 3	318.504	224.37	64351.4	EXC SUELO 1	67.108	47.27	19256.9
	VEGETAL	20.133	14.18	4624.1	TERRAPLEN	0.756	0.53	830.9
4548.912	EXC ROCA 2	317.842	0.00	67564.2	EXC ROCA 1	310.983	0.00	74239.7
	EXC SUELO 3	335.435	0.00	64351.4	EXC SUELO 1	71.662	0.00	19256.9
	VEGETAL	21.499	0.00	4624.1	TERRAPLEN	1.212	0.00	830.9
4550.000	EXC ROCA 2	315.585	344.58	67908.8	EXC ROCA 1	327.095	347.11	74586.8
	EXC SUELO 3	365.751	381.45	64732.8	EXC SUELO 1	79.481	82.22	19339.2
	VEGETAL	23.845	24.67	4648.8	TERRAPLEN	1.509	1.48	832.3
4550.130	EXC ROCA 2	314.335	40.94	67949.7	EXC ROCA 1	325.815	42.44	74629.2
	EXC SUELO 3	363.465	47.40	64780.2	EXC SUELO 1	78.863	10.29	19349.5
	VEGETAL	23.659	3.09	4651.9	TERRAPLEN	1.472	0.19	832.5
4551.829	EXC ROCA 2	298.061	520.23	68470.0	EXC ROCA 1	309.228	539.47	75168.7
	EXC SUELO 3	333.980	592.48	65372.7	EXC SUELO 1	70.891	127.22	19476.7
	VEGETAL	21.268	38.17	4690.0	TERRAPLEN	1.000	2.10	834.6

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4553.969	EXC ROCA 2	280.989	619.58	69089.5	EXC ROCA 1	306.900	659.26	75827.9
	EXC SUELO 3	331.731	712.31	66085.0	EXC SUELO 1	70.342	151.12	19627.8
	VEGETAL	21.103	45.34	4735.4	TERRAPLEN	0.961	2.10	836.7
4555.886	EXC ROCA 2	265.792	524.09	69613.6	EXC ROCA 1	304.851	586.36	76414.3
	EXC SUELO 3	329.777	634.06	66719.0	EXC SUELO 1	69.896	134.42	19762.2
	VEGETAL	20.969	40.33	4775.7	TERRAPLEN	0.929	1.81	838.5
4559.717	EXC ROCA 2	235.563	960.35	70574.0	EXC ROCA 1	300.584	1159.71	77574.0
	EXC SUELO 3	325.539	1255.26	67974.3	EXC SUELO 1	68.989	266.03	20028.3
	VEGETAL	20.697	79.81	4855.5	TERRAPLEN	0.867	3.44	842.0
4560.000	EXC ROCA 2	233.336	66.35	70640.3	EXC ROCA 1	300.260	85.02	77659.0
	EXC SUELO 3	325.207	92.08	68066.4	EXC SUELO 1	68.921	19.51	20047.8
	VEGETAL	20.676	5.85	4861.4	TERRAPLEN	0.864	0.25	842.2
4560.674	EXC ROCA 2	227.480	155.30	70795.6	EXC ROCA 1	299.798	202.22	77861.3
	EXC SUELO 3	324.635	219.00	68285.4	EXC SUELO 1	68.759	46.40	20094.2
	VEGETAL	20.628	13.92	4875.3	TERRAPLEN	0.853	0.58	842.8
4561.974	EXC ROCA 2	216.083	288.32	71083.9	EXC ROCA 1	298.836	389.11	78250.4
	EXC SUELO 3	323.489	421.28	68706.7	EXC SUELO 1	68.445	89.18	20183.3
	VEGETAL	20.534	26.76	4902.0	TERRAPLEN	0.833	1.10	843.9
4563.543	EXC ROCA 2	206.801	331.75	71415.7	EXC ROCA 1	295.450	466.22	78716.6
	EXC SUELO 3	319.442	504.38	69211.0	EXC SUELO 1	67.534	106.68	20290.0
	VEGETAL	20.261	32.00	4934.0	TERRAPLEN	0.811	1.29	845.2
4567.369	EXC ROCA 2	187.102	753.54	72169.2	EXC ROCA 1	295.077	1129.68	79846.3
	EXC SUELO 3	323.174	1229.32	70440.4	EXC SUELO 1	68.900	261.00	20551.0
	VEGETAL	20.670	78.30	5012.3	TERRAPLEN	0.949	3.37	848.6
4569.589	EXC ROCA 2	176.284	403.36	72572.6	EXC ROCA 1	296.766	656.94	80503.2
	EXC SUELO 3	329.134	724.06	71164.4	EXC SUELO 1	70.739	155.00	20706.0
	VEGETAL	21.222	46.50	5058.8	TERRAPLEN	1.092	2.27	850.8
4570.000	EXC ROCA 2	174.252	72.04	72644.6	EXC ROCA 1	296.970	122.01	80625.2
	EXC SUELO 3	330.109	135.47	71299.9	EXC SUELO 1	71.051	29.14	20735.2
	VEGETAL	21.316	8.74	5067.6	TERRAPLEN	1.118	0.45	851.3
4571.193	EXC ROCA 2	160.343	199.59	72844.2	EXC ROCA 1	298.027	354.92	80980.1
	EXC SUELO 3	332.893	395.48	71695.4	EXC SUELO 1	71.873	85.25	20820.4
	VEGETAL	21.562	25.58	5093.1	TERRAPLEN	1.177	1.37	852.7
4576.913	EXC ROCA 2	95.080	730.51	73574.7	EXC ROCA 1	299.756	1709.66	82689.8
	EXC SUELO 3	342.518	1931.68	73627.1	EXC SUELO 1	74.856	419.65	21240.1
	VEGETAL	22.457	125.89	5219.0	TERRAPLEN	1.418	7.42	860.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4576.931	EXC ROCA 2	95.655	1.72	73576.4	EXC ROCA 1	300.436	5.40	82695.2
	EXC SUELO 3	342.852	6.17	73633.2	EXC SUELO 1	74.864	1.35	21241.4
	VEGETAL	22.459	0.40	5219.4	TERRAPLEN	1.404	0.03	860.1
4576.989	EXC ROCA 2	97.500	5.60	73582.0	EXC ROCA 1	302.626	17.49	82712.7
	EXC SUELO 3	343.929	19.92	73653.1	EXC SUELO 1	74.886	4.34	21245.8
	VEGETAL	22.466	1.30	5220.8	TERRAPLEN	1.360	0.08	860.2
4577.146	EXC ROCA 2	99.179	15.44	73597.5	EXC ROCA 1	305.310	47.72	82760.4
	EXC SUELO 3	345.441	54.12	73707.3	EXC SUELO 1	74.947	11.76	21257.5
	VEGETAL	22.484	3.53	5224.3	TERRAPLEN	1.306	0.21	860.4
4577.385	EXC ROCA 2	100.177	23.82	73621.3	EXC ROCA 1	307.686	73.25	82833.7
	EXC SUELO 3	347.045	82.75	73790.0	EXC SUELO 1	75.041	17.92	21275.4
	VEGETAL	22.513	5.38	5229.7	TERRAPLEN	1.254	0.31	860.7
4577.705	EXC ROCA 2	100.597	32.12	73653.4	EXC ROCA 1	309.615	98.77	82932.4
	EXC SUELO 3	348.729	111.32	73901.3	EXC SUELO 1	75.165	24.03	21299.5
	VEGETAL	22.550	7.21	5236.9	TERRAPLEN	1.206	0.39	861.1
4578.103	EXC ROCA 2	100.491	40.02	73693.4	EXC ROCA 1	311.042	123.51	83055.9
	EXC SUELO 3	350.471	139.14	74040.5	EXC SUELO 1	75.316	29.95	21329.4
	VEGETAL	22.595	8.98	5245.8	TERRAPLEN	1.162	0.47	861.6
4578.579	EXC ROCA 2	99.857	47.68	73741.1	EXC ROCA 1	311.880	148.26	83204.2
	EXC SUELO 3	352.204	167.24	74207.7	EXC SUELO 1	75.478	35.89	21365.3
	VEGETAL	22.644	10.77	5256.6	TERRAPLEN	1.121	0.54	862.1
4578.843	EXC ROCA 2	99.325	26.29	73767.4	EXC ROCA 1	312.010	82.35	83286.5
	EXC SUELO 3	353.056	93.09	74300.8	EXC SUELO 1	75.567	19.94	21385.2
	VEGETAL	22.670	5.98	5262.6	TERRAPLEN	1.103	0.29	862.4
4579.128	EXC ROCA 2	98.800	28.23	73795.6	EXC ROCA 1	312.091	88.93	83375.5
	EXC SUELO 3	353.977	100.75	74401.6	EXC SUELO 1	75.664	21.55	21406.8
	VEGETAL	22.700	6.47	5269.1	TERRAPLEN	1.084	0.31	862.7
4579.749	EXC ROCA 2	97.321	60.90	73856.5	EXC ROCA 1	311.284	193.56	83569.0
	EXC SUELO 3	355.188	220.20	74621.8	EXC SUELO 1	75.715	47.00	21453.8
	VEGETAL	22.715	14.10	5283.2	TERRAPLEN	1.041	0.66	863.4
4580.000	EXC ROCA 2	96.609	24.34	73880.9	EXC ROCA 1	310.573	78.04	83647.1
	EXC SUELO 3	355.313	89.17	74710.9	EXC SUELO 1	75.654	19.00	21472.8
	VEGETAL	22.696	5.70	5288.9	TERRAPLEN	1.022	0.26	863.6
4580.437	EXC ROCA 2	94.164	41.68	73922.6	EXC ROCA 1	310.257	135.65	83782.7
	EXC SUELO 3	355.490	155.31	74866.2	EXC SUELO 1	75.548	33.04	21505.8
	VEGETAL	22.664	9.91	5298.8	TERRAPLEN	0.990	0.44	864.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4581.190	EXC ROCA 2	89.820	69.27	73991.8	EXC ROCA 1	309.069	233.18	84015.9
	EXC SUELO 3	355.635	267.74	75134.0	EXC SUELO 1	75.364	56.82	21562.6
	VEGETAL	22.609	17.05	5315.8	TERRAPLEN	0.942	0.73	864.8
4581.711	EXC ROCA 2	86.848	46.02	74037.8	EXC ROCA 1	308.018	160.75	84176.7
	EXC SUELO 3	356.051	185.39	75319.4	EXC SUELO 1	75.347	39.26	21601.9
	VEGETAL	22.604	11.78	5327.6	TERRAPLEN	0.920	0.49	865.3
4582.001	EXC ROCA 2	85.299	24.96	74062.8	EXC ROCA 1	307.648	89.27	84265.9
	EXC SUELO 3	357.424	103.45	75422.8	EXC SUELO 1	75.701	21.90	21623.8
	VEGETAL	22.711	6.57	5334.2	TERRAPLEN	0.938	0.27	865.5
4582.866	EXC ROCA 2	80.697	71.79	74134.6	EXC ROCA 1	305.818	265.32	84531.3
	EXC SUELO 3	361.341	310.87	75733.7	EXC SUELO 1	76.762	65.94	21689.8
	VEGETAL	23.029	19.78	5354.0	TERRAPLEN	1.000	0.84	866.4
4583.781	EXC ROCA 2	76.061	71.72	74206.3	EXC ROCA 1	302.861	278.47	84809.7
	EXC SUELO 3	365.154	332.37	76066.1	EXC SUELO 1	77.852	70.74	21760.5
	VEGETAL	23.356	21.22	5375.2	TERRAPLEN	1.072	0.95	867.3
4584.738	EXC ROCA 2	71.536	70.63	74276.9	EXC ROCA 1	298.740	287.87	85097.6
	EXC SUELO 3	368.878	351.23	76417.3	EXC SUELO 1	78.981	75.04	21835.5
	VEGETAL	23.694	22.51	5397.7	TERRAPLEN	1.157	1.07	868.4
4585.000	EXC ROCA 2	70.337	18.59	74295.5	EXC ROCA 1	297.395	78.09	85175.7
	EXC SUELO 3	369.802	96.77	76514.1	EXC SUELO 1	79.278	20.73	21856.3
	VEGETAL	23.784	6.22	5403.9	TERRAPLEN	1.182	0.31	868.7
4585.734	EXC ROCA 2	65.129	49.72	74345.2	EXC ROCA 1	293.598	216.89	85392.6
	EXC SUELO 3	361.495	268.39	76782.4	EXC SUELO 1	76.138	57.04	21913.3
	VEGETAL	22.842	17.11	5421.0	TERRAPLEN	0.856	0.75	869.5
4586.761	EXC ROCA 2	58.509	63.49	74408.7	EXC ROCA 1	288.519	298.92	85691.5
	EXC SUELO 3	362.372	371.71	77154.2	EXC SUELO 1	76.266	78.26	21991.6
	VEGETAL	22.880	23.48	5444.5	TERRAPLEN	0.853	0.88	870.3
4587.813	EXC ROCA 2	52.913	58.61	74467.3	EXC ROCA 1	281.569	299.87	85991.4
	EXC SUELO 3	363.010	381.55	77535.7	EXC SUELO 1	76.361	80.28	22071.8
	VEGETAL	22.909	24.08	5468.6	TERRAPLEN	0.853	0.90	871.2
4587.900	EXC ROCA 2	52.508	4.59	74471.9	EXC ROCA 1	280.894	24.47	86015.8
	EXC SUELO 3	363.053	31.58	77567.3	EXC SUELO 1	76.369	6.64	22078.5
	VEGETAL	22.911	1.99	5470.6	TERRAPLEN	0.853	0.07	871.3
4587.990	EXC ROCA 2	51.938	4.70	74476.6	EXC ROCA 1	280.251	25.25	86041.1
	EXC SUELO 3	363.109	32.68	77600.0	EXC SUELO 1	76.377	6.87	22085.4
	VEGETAL	22.913	2.06	5472.6	TERRAPLEN	0.853	0.08	871.4

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4588.000	EXC ROCA 2	51.881	0.52	74477.1	EXC ROCA 1	280.182	2.80	86043.9
	EXC SUELO 3	363.116	3.63	77603.6	EXC SUELO 1	76.378	0.76	22086.1
	VEGETAL	22.914	0.23	5472.9	TERRAPLEN	0.853	0.01	871.4
4588.884	EXC ROCA 2	46.353	43.42	74520.6	EXC ROCA 1	272.674	244.36	86288.3
	EXC SUELO 3	363.280	321.07	77924.7	EXC SUELO 1	76.421	67.54	22153.7
	VEGETAL	22.926	20.26	5493.1	TERRAPLEN	0.850	0.75	872.1
4589.967	EXC ROCA 2	41.281	47.45	74568.0	EXC ROCA 1	261.338	289.17	86577.4
	EXC SUELO 3	363.374	393.48	78318.1	EXC SUELO 1	76.459	82.78	22236.4
	VEGETAL	22.938	24.84	5518.0	TERRAPLEN	0.829	0.91	873.1
4589.999	EXC ROCA 2	41.153	1.32	74569.3	EXC ROCA 1	260.972	8.36	86585.8
	EXC SUELO 3	363.370	11.63	78329.8	EXC SUELO 1	76.458	2.45	22238.9
	VEGETAL	22.938	0.73	5518.7	TERRAPLEN	0.828	0.03	873.1
4590.000	EXC ROCA 2	0.000	0.02	74569.4	EXC ROCA 1	517.169	0.39	86586.2
	EXC SUELO 3	223.985	0.29	78330.1	EXC SUELO 1	0.000	0.04	22238.9
	VEGETAL	22.938	0.02	5518.7	TERRAPLEN	0.041	0.00	873.1
4591.055	EXC ROCA 1	507.945	540.75	87126.9	EXC SUELO 3	224.093	236.36	78566.4
	VEGETAL	22.935	24.20	5542.9	TERRAPLEN	0.040	0.04	873.1
4592.458	EXC ROCA 1	493.844	702.75	87829.7	EXC SUELO 3	223.779	314.18	78880.6
	VEGETAL	22.894	32.15	5575.1	TERRAPLEN	0.043	0.06	873.2
4593.392	EXC ROCA 1	484.315	456.80	88286.5	EXC SUELO 3	223.489	208.87	79089.5
	VEGETAL	22.856	21.37	5596.4	TERRAPLEN	0.045	0.04	873.2
4595.231	EXC ROCA 1	465.346	873.21	89159.7	EXC SUELO 3	222.832	410.39	79499.9
	VEGETAL	22.759	41.94	5638.4	TERRAPLEN	0.044	0.08	873.3
4596.021	EXC ROCA 1	457.114	364.37	89524.1	EXC SUELO 3	222.521	175.91	79675.8
	VEGETAL	22.712	17.96	5656.3	TERRAPLEN	0.041	0.03	873.3
4597.039	EXC ROCA 1	446.864	460.12	89984.2	EXC SUELO 3	222.328	226.43	79902.2
	VEGETAL	22.678	23.10	5679.4	TERRAPLEN	0.037	0.04	873.4
4599.745	EXC ROCA 1	419.413	1172.07	91156.2	EXC SUELO 3	221.754	600.84	80503.1
	VEGETAL	22.592	61.25	5740.7	TERRAPLEN	0.035	0.10	873.5
4600.000	EXC ROCA 1	416.783	106.61	91262.9	EXC SUELO 3	221.684	56.54	80559.6
	VEGETAL	22.582	5.76	5746.4	TERRAPLEN	0.034	0.01	873.5
4601.545	EXC ROCA 1	404.891	634.74	91897.6	EXC SUELO 3	220.850	341.86	80901.5
	VEGETAL	22.518	34.84	5781.3	TERRAPLEN	0.036	0.05	873.5
4605.136	EXC ROCA 1	377.956	1405.60	93303.2	EXC SUELO 3	218.803	789.40	81690.9
	VEGETAL	22.366	80.59	5861.9	TERRAPLEN	0.041	0.14	873.7
4607.492	EXC ROCA 1	359.236	868.41	94171.6	EXC SUELO 3	216.303	512.55	82203.4
	VEGETAL	22.144	52.43	5914.3	TERRAPLEN	0.043	0.10	873.8

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4608.714	EXC ROCA 1	349.651	433.13	94604.8	EXC SUELO 3	214.753	263.38	82466.8
	VEGETAL	22.004	26.97	5941.3	TERRAPLEN	0.044	0.05	873.8
4609.999	EXC ROCA 1	339.992	443.10	95047.8	EXC SUELO 3	213.055	274.87	82741.7
	VEGETAL	21.856	28.18	5969.5	TERRAPLEN	0.046	0.06	873.9
4610.000	EXC ROCA 1	339.986	0.34	95048.2	EXC SUELO 3	213.053	0.21	82741.9
	VEGETAL	21.856	0.02	5969.5	TERRAPLEN	0.046	0.00	873.9
4613.172	EXC ROCA 1	312.076	1034.17	96082.4	EXC SUELO 3	209.303	669.86	83411.7
	VEGETAL	21.469	68.71	6038.2	TERRAPLEN	0.045	0.14	874.0
4615.956	EXC ROCA 1	289.120	836.86	96919.2	EXC SUELO 3	206.668	579.03	83990.8
	VEGETAL	21.205	59.40	6097.6	TERRAPLEN	0.045	0.12	874.2
4618.498	EXC ROCA 1	268.886	709.22	97628.4	EXC SUELO 3	204.463	522.55	84513.3
	VEGETAL	20.989	53.63	6151.2	TERRAPLEN	0.045	0.11	874.3
4620.000	EXC ROCA 1	257.165	395.06	98023.5	EXC SUELO 3	203.152	306.12	84819.4
	VEGETAL	20.859	31.43	6182.7	TERRAPLEN	0.045	0.07	874.3
4622.918	EXC ROCA 1	221.452	698.30	98721.8	EXC SUELO 3	200.189	588.47	85407.9
	VEGETAL	20.544	60.41	6243.1	TERRAPLEN	0.044	0.13	874.5
4625.000	EXC ROCA 1	196.296	434.88	99156.7	EXC SUELO 3	197.977	414.49	85822.4
	VEGETAL	20.312	42.53	6285.6	TERRAPLEN	0.042	0.09	874.6
4628.202	EXC ROCA 1	145.379	547.02	99703.7	EXC SUELO 3	194.728	628.72	86451.1
	VEGETAL	19.999	64.54	6350.1	TERRAPLEN	0.043	0.14	874.7
4630.000	EXC ROCA 1	117.944	236.73	99940.4	EXC SUELO 3	192.229	347.87	86799.0
	VEGETAL	19.821	35.80	6385.9	TERRAPLEN	0.043	0.08	874.8
4630.719	EXC ROCA 1	107.978	81.22	100021.7	EXC SUELO 3	190.631	137.64	86936.6
	VEGETAL	19.739	14.22	6400.2	TERRAPLEN	0.044	0.03	874.8
4634.110	EXC ROCA 1	64.598	292.60	100314.3	EXC SUELO 3	174.840	619.66	87556.3
	VEGETAL	18.560	64.94	6465.1	TERRAPLEN	0.046	0.15	875.0
4634.340	EXC ROCA 1	63.030	14.68	100328.9	EXC SUELO 3	174.242	40.14	87596.4
	VEGETAL	18.542	4.27	6469.4	TERRAPLEN	0.046	0.01	875.0
4639.999	EXC ROCA 1	10.164	207.10	100536.0	EXC SUELO 3	142.155	895.25	88491.7
	VEGETAL	18.099	103.67	6573.0	TERRAPLEN	0.108	0.43	875.4
4640.000	EXC ROCA 1	10.159	0.01	100536.1	EXC SUELO 3	142.145	0.14	88491.8
	VEGETAL	18.099	0.02	6573.0	TERRAPLEN	0.108	0.00	875.4

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 2	74569.4
EXC ROCA 1	100536.1
EXC SUELO 3	88491.8
EXC SUELO 1	22238.9
VEGETAL	6573.0
TERRAPLEN	875.4

ENLACE DE CASILLA

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
104.834	SUELO ADECUADO	3.017	0.00	0.0	SUEL-EST3 TERR	2.873	0.00	0.0
	VEGETAL	5.725	0.00	0.0	TERRAPLEN	34.255	0.00	0.0
110.000	SUELO ADECUADO	3.085	15.76	15.8	SUEL-EST3 TERR	2.941	15.02	15.0
	VEGETAL	5.594	29.24	29.2	TERRAPLEN	28.323	161.64	161.6
114.707	SUELO ADECUADO	3.168	14.72	30.5	SUEL-EST3 TERR	3.024	14.04	29.1
	VEGETAL	5.413	25.90	55.1	TERRAPLEN	22.118	118.71	280.4
120.000	SUELO ADECUADO	3.294	17.10	47.6	SUEL-EST3 TERR	3.149	16.34	45.4
	VEGETAL	5.222	28.15	83.3	TERRAPLEN	15.287	98.99	379.3
123.069	SUELO ADECUADO	3.392	10.26	57.8	SUEL-EST3 TERR	3.244	9.81	55.2
	VEGETAL	5.141	15.90	99.2	TERRAPLEN	11.392	40.94	420.3
128.868	EXC SUELO 3	4.607	13.36	13.4	SUELO ADECUADO	12.650	46.51	104.4
	SUEL-EST3 TERR	3.372	19.18	74.4	VEGETAL	5.160	29.87	129.1
	TERRAPLEN	0.000	33.03	453.3				
130.000	EXC SUELO 3	6.006	6.01	19.4	SUELO ADECUADO	12.663	14.33	118.7
	SUEL-EST3 TERR	3.377	3.82	78.2	VEGETAL	5.148	5.83	134.9
131.256	EXC SUELO 3	7.863	8.71	28.1	SUELO ADECUADO	12.506	15.81	134.5
	SUEL-EST3 TERR	3.382	4.24	82.5	VEGETAL	5.057	6.41	141.3
131.732	EXC SUELO 3	8.490	3.89	32.0	SUELO ADECUADO	12.386	5.92	140.4
	SUEL-EST3 TERR	3.384	1.61	84.1	VEGETAL	4.992	2.39	143.7
131.814	EXC SUELO 3	8.583	0.70	32.7	SUELO ADECUADO	12.366	1.01	141.4
	SUEL-EST3 TERR	3.384	0.28	84.3	VEGETAL	4.982	0.41	144.1
134.185	EXC SUELO 3	10.868	23.06	55.7	SUELO ADECUADO	11.651	28.47	169.9
	SUEL-EST3 DESM	0.096	0.11	0.1	SUEL-EST3 TERR	3.295	7.92	92.3
	VEGETAL	4.662	11.43	155.5				
134.834	EXC SUELO 3	11.524	7.27	63.0	SUELO ADECUADO	11.540	7.53	177.4
	SUEL-EST3 DESM	0.338	0.14	0.3	SUEL-EST3 TERR	3.043	2.06	94.3
	VEGETAL	4.620	3.01	158.5				
135.610	EXC SUELO 3	12.135	9.18	72.2	SUELO ADECUADO	11.313	8.87	186.3
	SUEL-EST3 DESM	0.857	0.46	0.7	SUEL-EST3 TERR	2.497	2.15	96.5
	VEGETAL	4.529	3.55	162.1				
140.000	EXC SUELO 3	18.422	67.07	139.2	SUELO ADECUADO	12.090	51.37	237.7
	SUEL-EST3 DESM	3.548	9.67	10.4	SUEL-EST3 TERR	0.000	5.48	101.9
	VEGETAL	5.365	21.72	183.8	TERRAPLEN	0.081	0.18	453.5
140.544	EXC SUELO 3	18.925	10.16	149.4	SUELO ADECUADO	12.090	6.58	244.2
	SUEL-EST3 DESM	3.548	1.93	12.3	VEGETAL	5.397	2.93	186.7
	TERRAPLEN	0.079	0.04	453.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
148.145	EXC SUELO 3	26.002	170.75	320.2	SUELO ADECUADO	12.090	91.90	336.1
	SUEL-EST3 DESM	3.548	26.97	39.3	VEGETAL	5.884	42.87	229.6
	TERRAPLEN	0.075	0.59	454.1				
150.000	EXC SUELO 3	27.720	49.83	370.0	SUELO ADECUADO	12.090	22.43	358.6
	SUEL-EST3 DESM	3.548	6.58	45.9	VEGETAL	6.043	11.06	240.7
	TERRAPLEN	0.075	0.14	454.3				
156.260	EXC SUELO 3	26.351	169.24	539.2	SUELO ADECUADO	12.090	75.68	434.2
	SUEL-EST3 DESM	3.548	22.21	68.1	VEGETAL	6.263	38.52	279.2
	TERRAPLEN	0.163	0.75	455.0				
158.020	EXC SUELO 3	25.869	45.95	585.2	SUELO ADECUADO	12.090	21.28	455.5
	SUEL-EST3 DESM	3.548	6.24	74.3	VEGETAL	6.245	11.01	290.2
	TERRAPLEN	0.164	0.29	455.3				
160.000	EXC SUELO 3	22.569	47.95	633.1	SUELO ADECUADO	12.090	23.94	479.5
	SUEL-EST3 DESM	3.548	7.02	81.3	VEGETAL	6.023	12.15	302.3
	TERRAPLEN	0.161	0.32	455.6				
161.814	EXC SUELO 3	21.415	39.89	673.0	SUELO ADECUADO	12.090	21.93	501.4
	SUEL-EST3 DESM	3.548	6.44	87.8	VEGETAL	5.957	10.87	313.2
	TERRAPLEN	0.161	0.29	455.9				
164.157	EXC SUELO 3	29.678	59.86	732.9	SUELO ADECUADO	12.090	28.33	529.7
	SUEL-EST3 DESM	3.549	8.31	96.1	VEGETAL	6.406	14.48	327.7
	TERRAPLEN	0.160	0.38	456.3				
164.167	EXC SUELO 3	29.714	0.30	733.2	SUELO ADECUADO	12.090	0.12	529.8
	SUEL-EST3 DESM	3.549	0.04	96.1	VEGETAL	6.408	0.06	327.8
	TERRAPLEN	0.160	0.00	456.3				
170.000	EXC SUELO 3	53.045	241.37	974.5	SUELO ADECUADO	12.090	70.52	600.4
	SUEL-EST3 DESM	3.553	20.71	116.8	VEGETAL	7.528	40.64	368.4
	TERRAPLEN	0.160	0.94	457.2				
178.086	EXC SUELO 3	68.475	491.31	1465.8	SUELO ADECUADO	12.090	97.76	698.1
	SUEL-EST3 DESM	3.558	28.75	145.6	VEGETAL	8.188	63.54	431.9
	TERRAPLEN	0.160	1.30	458.5				
178.096	EXC SUELO 3	68.496	0.68	1466.5	SUELO ADECUADO	12.090	0.12	698.2
	SUEL-EST3 DESM	3.558	0.04	145.6	VEGETAL	8.187	0.08	432.0
	TERRAPLEN	0.160	0.00	458.5				
180.000	EXC SUELO 3	72.339	134.07	1600.6	SUELO ADECUADO	12.090	23.02	721.3
	SUEL-EST3 DESM	3.558	6.77	152.4	VEGETAL	8.345	15.74	447.8
	TERRAPLEN	0.161	0.31	458.8				

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
186.965	EXC SUELO 3	87.648	557.16	2157.8	SUELO ADECUADO	12.090	84.21	805.5
	SUEL-EST3 DESM	3.577	24.85	177.2	VEGETAL	8.750	59.53	507.3
	TERRAPLEN	0.133	1.02	459.9				
190.000	EXC SUELO 3	94.593	276.55	2434.3	SUELO ADECUADO	12.090	36.69	842.2
	SUEL-EST3 DESM	3.586	10.87	188.1	VEGETAL	8.819	26.66	534.0
	TERRAPLEN	0.083	0.33	460.2				
191.564	EXC SUELO 3	94.996	148.26	2582.6	SUELO ADECUADO	12.090	18.91	861.1
	SUEL-EST3 DESM	3.589	5.61	193.7	VEGETAL	8.844	13.81	547.8
	TERRAPLEN	0.083	0.13	460.3				
195.738	EXC SUELO 3	96.141	398.90	2981.5	SUELO ADECUADO	12.090	50.46	911.5
	SUEL-EST3 DESM	3.601	15.01	208.7	VEGETAL	8.926	37.08	584.9
	TERRAPLEN	0.084	0.35	460.7				
198.795	EXC SUELO 3	97.006	295.22	3276.7	SUELO ADECUADO	12.090	36.96	948.5
	SUEL-EST3 DESM	3.609	11.02	219.7	VEGETAL	8.988	27.38	612.2
	TERRAPLEN	0.084	0.26	460.9				
200.000	EXC SUELO 3	97.343	117.10	3393.8	SUELO ADECUADO	12.090	14.57	963.1
	SUEL-EST3 DESM	3.612	4.35	224.1	VEGETAL	9.004	10.84	623.1
	TERRAPLEN	0.085	0.10	461.0				
204.474	EXC SUELO 3	91.497	422.44	3816.2	SUELO ADECUADO	12.090	54.09	1017.2
	SUEL-EST3 DESM	3.617	16.17	240.3	VEGETAL	8.837	39.91	663.0
	TERRAPLEN	0.085	0.38	461.4				
210.000	EXC SUELO 3	84.398	486.00	4302.2	SUELO ADECUADO	12.090	66.81	1084.0
	SUEL-EST3 DESM	3.621	20.00	260.3	VEGETAL	8.616	48.22	711.2
	TERRAPLEN	0.085	0.47	461.9				
213.643	EXC SUELO 3	76.878	293.77	4596.0	SUELO ADECUADO	12.090	44.04	1128.0
	SUEL-EST3 DESM	3.623	13.20	273.5	VEGETAL	8.431	31.05	742.3
	TERRAPLEN	0.128	0.39	462.3				
215.876	EXC SUELO 3	72.383	166.65	4762.6	SUELO ADECUADO	12.090	27.00	1155.0
	SUEL-EST3 DESM	3.623	8.09	281.6	VEGETAL	8.294	18.67	760.9
	TERRAPLEN	0.160	0.32	462.6				
215.877	EXC SUELO 3	72.380	0.07	4762.7	SUELO ADECUADO	12.090	0.01	1155.0
	SUEL-EST3 DESM	3.622	0.00	281.6	VEGETAL	8.294	0.01	760.9
	TERRAPLEN	0.160	0.00	462.6				
220.000	EXC SUELO 3	63.275	279.65	5042.4	SUELO ADECUADO	12.090	49.85	1204.9
	SUEL-EST3 DESM	3.622	14.93	296.5	VEGETAL	7.937	33.46	794.4
	TERRAPLEN	0.161	0.66	463.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
226.572	EXC SUELO 3	49.410	370.28	5412.7	SUELO ADECUADO	12.090	79.46	1284.3
	SUEL-EST3 DESM	3.614	23.78	320.3	VEGETAL	7.335	50.18	844.6
	TERRAPLEN	0.161	1.06	464.3				
226.582	EXC SUELO 3	49.391	0.49	5413.1	SUELO ADECUADO	12.090	0.12	1284.4
	SUEL-EST3 DESM	3.615	0.04	320.3	VEGETAL	7.334	0.07	844.7
	TERRAPLEN	0.161	0.00	464.3				
229.860	EXC SUELO 3	42.835	151.16	5564.3	SUELO ADECUADO	12.090	39.63	1324.1
	SUEL-EST3 DESM	3.607	11.84	332.1	VEGETAL	7.035	23.55	868.2
	TERRAPLEN	0.161	0.53	464.8				
229.870	EXC SUELO 3	42.815	0.43	5564.7	SUELO ADECUADO	12.090	0.12	1324.2
	SUEL-EST3 DESM	3.606	0.04	332.2	VEGETAL	7.034	0.07	868.3
	TERRAPLEN	0.161	0.00	464.8				
230.000	EXC SUELO 3	42.560	5.55	5570.3	SUELO ADECUADO	12.090	1.57	1325.8
	SUEL-EST3 DESM	3.606	0.47	332.6	VEGETAL	7.022	0.91	869.2
	TERRAPLEN	0.161	0.02	464.8				
235.513	EXC SUELO 3	32.203	206.09	5776.4	SUELO ADECUADO	12.145	66.80	1392.6
	SUEL-EST3 DESM	3.603	19.87	352.5	VEGETAL	6.543	37.39	906.6
	TERRAPLEN	0.163	0.89	465.7				
240.000	EXC SUELO 3	24.111	126.34	5902.7	SUELO ADECUADO	11.894	53.93	1446.5
	SUEL-EST3 DESM	3.357	15.61	368.1	SUEL-EST3 TERR	0.148	0.33	102.3
	VEGETAL	5.800	27.69	934.3	TERRAPLEN	0.089	0.56	466.3
244.592	EXC SUELO 3	17.824	96.28	5999.0	SUELO ADECUADO	12.762	56.61	1503.1
	SUEL-EST3 DESM	2.061	12.44	380.6	SUEL-EST3 TERR	1.469	3.71	106.0
	VEGETAL	6.072	27.26	961.5	TERRAPLEN	0.090	0.41	466.7
250.000	EXC SUELO 3	9.561	74.05	6073.0	SUELO ADECUADO	11.185	64.75	1567.9
	SUEL-EST3 DESM	1.045	8.40	389.0	SUEL-EST3 TERR	2.496	10.72	116.7
	RELLEN MEDIANA	0.002	0.00	0.0	VEGETAL	6.280	33.40	994.9
	TERRAPLEN	2.436	6.83	473.5				
251.435	EXC SUELO 3	8.122	12.69	6085.7	SUELO ADECUADO	10.167	15.32	1583.2
	SUEL-EST3 DESM	0.859	1.37	390.3	SUEL-EST3 TERR	2.680	3.71	120.4
	RELLEN MEDIANA	0.002	0.00	0.1	VEGETAL	6.277	9.01	1003.9
	TERRAPLEN	4.379	4.89	478.4				
256.367	EXC SUELO 3	3.693	29.14	6114.9	SUELO ADECUADO	7.695	44.05	1627.2
	SUEL-EST3 DESM	0.137	2.45	392.8	SUEL-EST3 TERR	3.249	14.62	135.0
	VEGETAL	6.420	31.31	1035.3	TERRAPLEN	11.380	38.86	517.3
257.543	EXC SUELO 3	2.700	3.76	6118.6	SUELO ADECUADO	6.919	8.59	1635.8
	SUEL-EST3 DESM	0.011	0.09	392.9	SUEL-EST3 TERR	3.257	3.83	138.9
	VEGETAL	6.464	7.58	1042.8	TERRAPLEN	13.401	14.57	531.9

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
257.544	EXC SUELO 3	2.700	0.00	6118.6	SUELO ADECUADO	6.919	0.01	1635.8
	SUEL-EST3 DESM	0.011	0.00	392.9	SUEL-EST3 TERR	3.257	0.00	138.9
	VEGETAL	6.464	0.01	1042.8	TERRAPLEN	13.402	0.01	531.9
258.942	EXC SUELO 3	1.695	3.07	6121.7	SUELO ADECUADO	6.003	9.03	1644.9
	SUEL-EST3 TERR	3.119	4.46	143.3	VEGETAL	6.551	9.10	1051.9
	TERRAPLEN	16.327	20.78	552.7				
260.000	EXC SUELO 3	1.368	1.62	6123.3	SUELO ADECUADO	5.725	6.20	1651.1
	SUEL-EST3 TERR	3.119	3.30	146.6	VEGETAL	6.739	7.03	1059.0
	TERRAPLEN	18.683	18.52	571.2				
260.361	EXC SUELO 3	1.259	0.47	6123.8	SUELO ADECUADO	5.617	2.05	1653.1
	SUEL-EST3 TERR	3.118	1.13	147.8	VEGETAL	6.767	2.44	1061.4
	TERRAPLEN	19.471	6.89	578.1				
262.515	EXC SUELO 3	0.724	2.14	6125.9	SUELO ADECUADO	4.988	11.42	1664.5
	SUEL-EST3 TERR	3.119	6.72	154.5	VEGETAL	6.933	14.75	1076.2
	TERRAPLEN	24.324	47.17	625.2				
264.672	EXC SUELO 3	0.350	1.16	6127.1	SUELO ADECUADO	4.427	10.15	1674.7
	SUEL-EST3 TERR	3.118	6.73	161.2	VEGETAL	7.091	15.13	1091.3
	TERRAPLEN	29.356	57.89	683.1				
266.827	EXC SUELO 3	0.118	0.50	6127.6	SUELO ADECUADO	3.937	9.01	1683.7
	SUEL-EST3 TERR	3.119	6.72	167.9	VEGETAL	7.236	15.44	1106.7
	TERRAPLEN	34.529	68.84	752.0				
268.982	EXC SUELO 3	0.011	0.14	6127.7	SUELO ADECUADO	3.447	7.96	1691.7
	SUEL-EST3 TERR	3.118	6.72	174.6	VEGETAL	7.371	15.74	1122.5
	TERRAPLEN	39.890	80.19	832.1				
270.000	SUELO ADECUADO	3.257	3.41	1695.1	SUEL-EST3 TERR	3.121	3.18	177.8
	VEGETAL	7.436	7.54	1130.0	TERRAPLEN	42.451	41.91	874.1
271.137	SUELO ADECUADO	3.254	3.70	1698.8	SUEL-EST3 TERR	3.119	3.55	181.4
	VEGETAL	7.453	8.46	1138.5	TERRAPLEN	43.371	48.79	922.8
273.293	SUELO ADECUADO	3.254	7.02	1705.8	SUEL-EST3 TERR	3.119	6.72	188.1
	VEGETAL	7.492	16.11	1154.6	TERRAPLEN	45.127	95.40	1018.2
275.449	SUELO ADECUADO	3.253	7.01	1712.8	SUEL-EST3 TERR	3.118	6.72	194.8
	VEGETAL	7.531	16.19	1170.8	TERRAPLEN	46.887	99.19	1117.4
277.603	SUELO ADECUADO	3.254	7.01	1719.8	SUEL-EST3 TERR	3.119	6.72	201.5
	VEGETAL	7.570	16.26	1187.0	TERRAPLEN	48.654	102.90	1220.3
279.760	SUELO ADECUADO	3.254	7.02	1726.8	SUEL-EST3 TERR	3.118	6.73	208.3
	VEGETAL	7.609	16.37	1203.4	TERRAPLEN	50.426	106.86	1327.2
280.000	SUELO ADECUADO	3.255	0.78	1727.6	SUEL-EST3 TERR	3.119	0.75	209.0
	VEGETAL	7.615	1.83	1205.2	TERRAPLEN	50.629	12.13	1339.3

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
281.914	SUELO ADECUADO	3.254	6.23	1733.8	SUEL-EST3 TERR	3.119	5.97	215.0
	VEGETAL	7.602	14.56	1219.8	TERRAPLEN	51.732	97.96	1437.3
284.070	SUELO ADECUADO	3.254	7.02	1740.9	SUEL-EST3 TERR	3.119	6.72	221.7
	VEGETAL	7.589	16.38	1236.2	TERRAPLEN	52.977	112.88	1550.2
286.224	SUELO ADECUADO	3.254	7.01	1747.9	SUEL-EST3 TERR	3.118	6.72	228.4
	VEGETAL	7.576	16.33	1252.5	TERRAPLEN	54.223	115.45	1665.6
288.380	SUELO ADECUADO	3.254	7.02	1754.9	SUEL-EST3 TERR	3.118	6.72	235.1
	VEGETAL	7.564	16.32	1268.8	TERRAPLEN	55.471	118.25	1783.9
290.000	SUELO ADECUADO	3.256	5.27	1760.2	SUEL-EST3 TERR	3.120	5.05	240.2
	VEGETAL	7.557	12.25	1281.1	TERRAPLEN	56.422	90.63	1874.5
290.537	SUELO ADECUADO	3.254	1.75	1761.9	SUEL-EST3 TERR	3.119	1.68	241.9
	VEGETAL	7.546	4.06	1285.1	TERRAPLEN	56.266	30.26	1904.8
292.691	SUELO ADECUADO	3.254	7.01	1768.9	SUEL-EST3 TERR	3.118	6.72	248.6
	VEGETAL	7.510	16.21	1301.3	TERRAPLEN	55.666	120.55	2025.3
294.846	SUELO ADECUADO	3.254	7.01	1775.9	SUEL-EST3 TERR	3.119	6.72	255.3
	VEGETAL	7.471	16.14	1317.5	TERRAPLEN	55.000	119.24	2144.5
297.002	SUELO ADECUADO	3.254	7.02	1782.9	SUEL-EST3 TERR	3.118	6.72	262.0
	VEGETAL	7.429	16.06	1333.5	TERRAPLEN	54.264	117.79	2262.3
299.158	SUELO ADECUADO	3.254	7.01	1789.9	SUEL-EST3 TERR	3.118	6.72	268.8
	VEGETAL	7.385	15.97	1349.5	TERRAPLEN	53.467	116.13	2378.5
300.000	SUELO ADECUADO	3.256	2.74	1792.7	SUEL-EST3 TERR	3.121	2.63	271.4
	VEGETAL	7.371	6.21	1355.7	TERRAPLEN	53.152	44.89	2423.4
301.312	SUELO ADECUADO	3.254	4.27	1797.0	SUEL-EST3 TERR	3.118	4.09	275.5
	VEGETAL	7.324	9.64	1365.4	TERRAPLEN	51.892	68.91	2492.3
303.467	SUELO ADECUADO	3.254	7.01	1804.0	SUEL-EST3 TERR	3.119	6.72	282.2
	VEGETAL	7.252	15.71	1381.1	TERRAPLEN	49.807	109.58	2601.8
305.624	SUELO ADECUADO	3.254	7.02	1811.0	SUEL-EST3 TERR	3.119	6.73	288.9
	VEGETAL	7.176	15.56	1396.6	TERRAPLEN	47.670	105.13	2707.0
307.780	SUELO ADECUADO	3.254	7.02	1818.0	SUEL-EST3 TERR	3.119	6.72	295.6
	VEGETAL	7.096	15.38	1412.0	TERRAPLEN	45.485	100.42	2807.4
309.934	SUELO ADECUADO	3.253	7.01	1825.0	SUEL-EST3 TERR	3.118	6.72	302.4
	VEGETAL	7.013	15.20	1427.2	TERRAPLEN	43.258	95.58	2903.0
310.000	SUELO ADECUADO	3.255	0.21	1825.2	SUEL-EST3 TERR	3.119	0.21	302.6
	VEGETAL	7.012	0.46	1427.7	TERRAPLEN	43.195	2.85	2905.8
314.670	SUELO ADECUADO	3.288	15.28	1840.5	SUEL-EST3 TERR	3.153	14.65	317.2
	VEGETAL	6.930	32.55	1460.2	TERRAPLEN	38.121	189.87	3095.7
315.000	SUELO ADECUADO	3.297	1.09	1841.6	SUEL-EST3 TERR	3.162	1.04	318.3
	VEGETAL	6.932	2.29	1462.5	TERRAPLEN	37.776	12.52	3108.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
320.000	SUELO ADECUADO	3.380	16.69	1858.3	SUEL-EST3 TERR	3.241	16.01	334.3
	RELLEN MEDIANA	0.002	0.00	0.1	VEGETAL	6.723	34.14	1496.6
	TERRAPLEN	30.806	171.46	3279.7				
320.354	SUELO ADECUADO	3.382	1.20	1859.5	SUEL-EST3 TERR	3.243	1.15	335.4
	RELLEN MEDIANA	0.001	0.00	0.1	VEGETAL	6.694	2.37	1499.0
	TERRAPLEN	30.157	10.79	3290.5				
326.662	EXC SUELO 3	0.344	1.09	6128.8	SUELO ADECUADO	5.039	26.56	1886.0
	SUEL-EST3 TERR	3.443	21.09	356.5	VEGETAL	6.432	41.40	1540.4
	TERRAPLEN	17.964	151.78	3442.2				
327.686	EXC SUELO 3	0.584	0.48	6129.3	SUELO ADECUADO	5.560	5.43	1891.5
	SUEL-EST3 TERR	3.468	3.54	360.0	VEGETAL	6.419	6.58	1547.0
	TERRAPLEN	15.935	17.36	3459.6				
329.332	EXC SUELO 3	1.432	1.66	6131.0	SUELO ADECUADO	6.697	10.09	1901.6
	SUEL-EST3 TERR	3.463	5.70	365.7	VEGETAL	6.142	10.34	1557.3
	TERRAPLEN	12.607	23.49	3483.1				
330.000	EXC SUELO 3	2.173	1.20	6132.2	SUELO ADECUADO	7.267	4.66	1906.2
	SUEL-EST3 TERR	3.456	2.31	368.0	VEGETAL	6.101	4.09	1561.4
	TERRAPLEN	11.313	7.99	3491.1				
331.874	EXC SUELO 3	3.809	5.60	6137.8	SUELO ADECUADO	8.141	14.44	1920.7
	SUEL-EST3 DESM	0.009	0.01	392.9	SUEL-EST3 TERR	3.425	6.45	374.5
	VEGETAL	5.695	11.05	1572.5	TERRAPLEN	7.973	18.07	3509.1
332.382	EXC SUELO 3	4.204	2.04	6139.8	SUELO ADECUADO	8.395	4.20	1924.9
	SUEL-EST3 DESM	0.031	0.01	392.9	SUEL-EST3 TERR	3.394	1.73	376.2
	VEGETAL	5.629	2.88	1575.4	TERRAPLEN	7.278	3.87	3513.0
333.276	EXC SUELO 3	4.975	4.10	6143.9	SUELO ADECUADO	8.742	7.66	1932.5
	SUEL-EST3 DESM	0.102	0.06	393.0	SUEL-EST3 TERR	3.299	2.99	379.2
	VEGETAL	5.528	4.99	1580.3	TERRAPLEN	6.249	6.05	3519.1
334.658	EXC SUELO 3	6.064	7.63	6151.5	SUELO ADECUADO	9.318	12.48	1945.0
	SUEL-EST3 DESM	0.257	0.25	393.2	SUEL-EST3 TERR	3.100	4.42	383.6
	VEGETAL	5.440	7.58	1587.9	TERRAPLEN	4.794	7.63	3526.7
334.934	EXC SUELO 3	6.281	1.70	6153.2	SUELO ADECUADO	9.502	2.60	1947.6
	SUEL-EST3 DESM	0.303	0.08	393.3	SUEL-EST3 TERR	3.049	0.85	384.5
	VEGETAL	5.428	1.50	1589.4	TERRAPLEN	4.414	1.27	3528.0
336.031	EXC SUELO 3	7.300	7.45	6160.7	SUELO ADECUADO	10.176	10.79	1958.4
	SUEL-EST3 DESM	0.474	0.43	393.7	SUEL-EST3 TERR	2.854	3.24	387.7
	VEGETAL	5.378	5.93	1595.3	TERRAPLEN	3.130	4.14	3532.1

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
337.400	EXC SUELO 3	8.632	10.91	6171.6	SUELO ADECUADO	10.866	14.40	1972.8
	SUEL-EST3 DESM	0.729	0.82	394.5	SUEL-EST3 TERR	2.580	3.72	391.4
	VEGETAL	5.363	7.35	1602.7	TERRAPLEN	1.908	3.45	3535.6
338.762	EXC SUELO 3	10.453	13.00	6184.6	SUELO ADECUADO	11.619	15.31	1988.1
	SUEL-EST3 DESM	1.075	1.23	395.8	SUEL-EST3 TERR	2.286	3.31	394.8
	VEGETAL	5.347	7.29	1610.0	TERRAPLEN	0.946	1.94	3537.5
339.892	EXC SUELO 3	10.502	11.84	6196.4	SUELO ADECUADO	11.311	12.96	2001.1
	SUEL-EST3 DESM	1.079	1.22	397.0	SUEL-EST3 TERR	2.108	2.48	397.2
	VEGETAL	5.075	5.89	1615.9	TERRAPLEN	0.510	0.82	3538.3
340.000	EXC SUELO 3	10.485	1.13	6197.6	SUELO ADECUADO	11.274	1.22	2002.3
	SUEL-EST3 DESM	1.074	0.12	397.1	SUEL-EST3 TERR	2.092	0.23	397.5
	VEGETAL	5.043	0.55	1616.4	TERRAPLEN	0.467	0.05	3538.4
340.118	EXC SUELO 3	10.449	1.24	6198.8	SUELO ADECUADO	11.230	1.33	2003.6
	SUEL-EST3 DESM	1.068	0.13	397.2	SUEL-EST3 TERR	2.075	0.25	397.7
	VEGETAL	5.010	0.59	1617.0	TERRAPLEN	0.425	0.05	3538.4
340.636	EXC SUELO 3	10.299	5.37	6204.2	SUELO ADECUADO	10.972	5.75	2009.4
	SUEL-EST3 DESM	1.043	0.55	397.8	SUEL-EST3 TERR	2.006	1.06	398.8
	VEGETAL	4.866	2.56	1619.6	TERRAPLEN	0.323	0.19	3538.6
340.822	EXC SUELO 3	10.248	1.91	6206.1	SUELO ADECUADO	10.889	2.03	2011.4
	SUEL-EST3 DESM	1.036	0.19	398.0	SUEL-EST3 TERR	1.980	0.37	399.1
	VEGETAL	4.815	0.90	1620.5	TERRAPLEN	0.284	0.06	3538.7
341.466	EXC SUELO 3	10.073	6.54	6212.6	SUELO ADECUADO	10.587	6.92	2018.3
	SUEL-EST3 DESM	1.010	0.66	398.6	SUEL-EST3 TERR	1.895	1.25	400.4
	VEGETAL	4.645	3.05	1623.5	TERRAPLEN	0.177	0.15	3538.8
342.808	EXC SUELO 3	9.620	13.21	6225.8	SUELO ADECUADO	10.040	13.84	2032.1
	SUEL-EST3 DESM	0.926	1.30	399.9	SUEL-EST3 TERR	1.776	2.46	402.9
	VEGETAL	4.320	6.02	1629.5	TERRAPLEN	0.000	0.12	3538.9
343.256	EXC SUELO 3	9.334	4.25	6230.1	SUELO ADECUADO	9.834	4.45	2036.6
	SUEL-EST3 DESM	0.876	0.40	400.3	SUEL-EST3 TERR	1.763	0.79	403.6
	VEGETAL	4.227	1.91	1631.5				
344.429	EXC SUELO 3	7.619	9.94	6240.0	SUELO ADECUADO	8.609	10.82	2047.4
	SUEL-EST3 DESM	0.543	0.83	401.2	SUEL-EST3 TERR	1.730	2.05	405.7
	VEGETAL	3.712	4.66	1636.1				
345.923	EXC SUELO 3	6.100	10.25	6250.3	SUELO ADECUADO	7.354	11.92	2059.3
	SUEL-EST3 DESM	0.224	0.57	401.7	SUEL-EST3 TERR	1.676	2.54	408.2
	VEGETAL	3.178	5.15	1641.3				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
347.579	EXC SUELO 3	4.916	9.12	6259.4	SUELO ADECUADO	6.252	11.27	2070.6
	SUEL-EST3 DESM	0.062	0.24	402.0	SUEL-EST3 TERR	1.516	2.64	410.9
	VEGETAL	2.688	4.86	1646.1				
349.383	EXC SUELO 3	4.018	8.06	6267.5	SUELO ADECUADO	5.348	10.46	2081.1
	SUEL-EST3 DESM	0.013	0.07	402.0	SUEL-EST3 TERR	1.301	2.54	413.4
	VEGETAL	2.300	4.50	1650.6				
350.000	EXC SUELO 3	3.788	2.41	6269.9	SUELO ADECUADO	5.111	3.23	2084.3
	SUEL-EST3 DESM	0.006	0.01	402.0	SUEL-EST3 TERR	1.238	0.78	414.2
	VEGETAL	2.200	1.39	1652.0				
351.046	EXC SUELO 3	3.289	3.70	6273.6	SUELO ADECUADO	4.757	5.16	2089.5
	SUEL-EST3 TERR	1.139	1.24	415.5	VEGETAL	2.057	2.23	1654.2
351.308	EXC SUELO 3	3.156	0.84	6274.4	SUELO ADECUADO	4.676	1.24	2090.7
	SUEL-EST3 TERR	1.115	0.30	415.7	VEGETAL	2.023	0.53	1654.8
354.060	EXC SUELO 3	2.147	7.30	6281.7	SUELO ADECUADO	4.134	12.12	2102.8
	SUEL-EST3 TERR	0.958	2.85	418.6	VEGETAL	1.792	5.25	1660.0
354.866	EXC SUELO 3	1.933	1.64	6283.4	SUELO ADECUADO	4.061	3.30	2106.1
	SUEL-EST3 TERR	0.938	0.76	419.4	VEGETAL	1.758	1.43	1661.4
354.869	EXC SUELO 3	1.932	0.01	6283.4	SUELO ADECUADO	4.061	0.01	2106.1
	SUEL-EST3 TERR	0.938	0.00	419.4	VEGETAL	1.758	0.01	1661.4
354.870	EXC SUELO 3	1.932	0.00	6283.4	SUELO ADECUADO	4.061	0.00	2106.1
	SUEL-EST3 TERR	0.938	0.00	419.4	VEGETAL	1.758	0.00	1661.4
354.871	EXC SUELO 3	1.932	0.00	6283.4	SUELO ADECUADO	4.061	0.00	2106.1
	SUEL-EST3 TERR	0.938	0.00	419.4	VEGETAL	1.758	0.00	1661.5

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 3	6283.4
SUELO ADECUADO	2106.1
SUEL-EST3 DESM	402.0
SUEL-EST3 TERR	419.4
VEGETAL	1661.5
TERRAPLEN	3538.9

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	9.017	0.00	0.0	SUELO ADECUADO	3.441	0.00	0.0
	SUEL-EST3 DESM	1.021	0.00	0.0	VEGETAL	2.100	0.00	0.0
	TERRAPLEN	0.077	0.00	0.0				
0.005	EXC SUELO 2	9.019	0.05	0.0	SUELO ADECUADO	3.442	0.02	0.0
	SUEL-EST3 DESM	1.021	0.01	0.0	VEGETAL	2.100	0.01	0.0
	TERRAPLEN	0.077	0.00	0.0				
10.000	EXC SUELO 2	16.060	125.34	125.4	SUELO ADECUADO	7.445	54.41	54.4
	SUEL-EST3 DESM	2.220	16.20	16.2	VEGETAL	3.628	28.63	28.6
	TERRAPLEN	0.078	0.78	0.8				
13.372	EXC SUELO 2	18.984	59.08	184.5	SUELO ADECUADO	9.954	29.34	83.8
	SUEL-EST3 DESM	2.972	8.75	25.0	VEGETAL	4.578	13.84	42.5
	TERRAPLEN	0.079	0.27	1.0				
13.929	EXC SUELO 2	19.119	10.61	195.1	SUELO ADECUADO	10.229	5.62	89.4
	SUEL-EST3 DESM	3.054	1.68	26.6	VEGETAL	4.679	2.58	45.1
	TERRAPLEN	0.079	0.04	1.1				
15.478	EXC SUELO 2	19.549	29.95	225.0	SUELO ADECUADO	11.078	16.50	105.9
	SUEL-EST3 DESM	3.308	4.93	31.6	VEGETAL	4.994	7.49	52.5
	TERRAPLEN	0.079	0.12	1.2				
15.830	EXC SUELO 2	19.656	6.90	231.9	SUELO ADECUADO	11.290	3.94	109.8
	SUEL-EST3 DESM	3.371	1.18	32.7	VEGETAL	5.073	1.77	54.3
	TERRAPLEN	0.079	0.03	1.2				
15.981	EXC SUELO 2	19.693	2.97	234.9	SUELO ADECUADO	11.377	1.71	111.5
	SUEL-EST3 DESM	3.398	0.51	33.2	VEGETAL	5.105	0.77	55.1
	TERRAPLEN	0.079	0.01	1.2				
16.734	EXC SUELO 2	19.840	14.88	249.8	SUELO ADECUADO	11.830	8.74	120.3
	SUEL-EST3 DESM	3.532	2.61	35.9	VEGETAL	5.275	3.91	59.0
	TERRAPLEN	0.079	0.06	1.3				
17.029	EXC SUELO 2	19.861	5.86	255.6	SUELO ADECUADO	11.991	3.51	123.8
	SUEL-EST3 DESM	3.579	1.05	36.9	VEGETAL	5.333	1.56	60.6
	TERRAPLEN	0.079	0.02	1.3				
18.587	EXC SUELO 2	19.988	31.04	286.7	SUELO ADECUADO	12.922	19.41	143.2
	SUEL-EST3 DESM	3.855	5.79	42.7	VEGETAL	5.682	8.58	69.1
	TERRAPLEN	0.080	0.12	1.5				
20.000	EXC SUELO 2	16.636	25.87	312.6	SUELO ADECUADO	11.362	17.16	160.3
	SUEL-EST3 DESM	3.359	5.10	47.8	SUEL-EST3 TERR	0.025	0.02	0.0
	VEGETAL	5.038	7.57	76.7	TERRAPLEN	0.082	0.11	1.6

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
20.147	EXC SUELO 2	17.274	2.49	315.0	SUELO ADECUADO	11.997	1.72	162.1
	SUEL-EST3 DESM	3.500	0.50	48.3	SUEL-EST3 TERR	0.073	0.01	0.0
	VEGETAL	5.288	0.76	77.5	TERRAPLEN	0.082	0.01	1.6
20.263	EXC SUELO 2	17.183	2.00	317.0	SUELO ADECUADO	12.054	1.39	163.5
	SUEL-EST3 DESM	3.468	0.40	48.7	SUEL-EST3 TERR	0.123	0.01	0.0
	VEGETAL	5.308	0.61	78.1	TERRAPLEN	0.083	0.01	1.6
21.711	EXC SUELO 2	15.486	23.65	340.7	SUELO ADECUADO	12.397	17.70	181.2
	SUEL-EST3 DESM	2.378	4.23	52.9	SUEL-EST3 TERR	1.310	1.04	1.1
	VEGETAL	5.410	7.76	85.8	TERRAPLEN	0.090	0.13	1.7
21.791	EXC SUELO 2	15.388	1.23	341.9	SUELO ADECUADO	12.416	0.99	182.2
	SUEL-EST3 DESM	2.297	0.19	53.1	SUEL-EST3 TERR	1.397	0.11	1.2
	VEGETAL	5.416	0.43	86.3	TERRAPLEN	0.091	0.01	1.7
23.279	EXC SUELO 2	13.508	21.50	363.4	SUELO ADECUADO	12.780	18.75	200.9
	SUEL-EST3 DESM	1.288	2.67	55.8	SUEL-EST3 TERR	2.508	2.91	4.1
	VEGETAL	5.525	8.14	94.4	TERRAPLEN	0.103	0.14	1.9
24.549	EXC SUELO 2	10.231	15.07	378.5	SUELO ADECUADO	11.917	15.68	216.6
	SUEL-EST3 DESM	0.433	1.09	56.9	SUEL-EST3 TERR	3.095	3.56	7.6
	VEGETAL	4.771	6.54	101.0	TERRAPLEN	0.001	0.07	1.9
24.851	EXC SUELO 2	9.879	3.04	381.5	SUELO ADECUADO	12.025	3.62	220.2
	SUEL-EST3 DESM	0.349	0.12	57.0	SUEL-EST3 TERR	3.192	0.95	8.6
	VEGETAL	4.814	1.45	102.4	TERRAPLEN	0.001	0.00	1.9
25.000	EXC SUELO 2	9.649	1.45	383.0	SUELO ADECUADO	12.077	1.80	222.0
	SUEL-EST3 DESM	0.311	0.05	57.1	SUEL-EST3 TERR	3.220	0.48	9.1
	VEGETAL	4.835	0.72	103.1	TERRAPLEN	0.001	0.00	1.9
26.426	EXC SUELO 2	7.945	12.54	395.5	SUELO ADECUADO	12.531	17.55	239.5
	SUEL-EST3 DESM	0.084	0.28	57.3	SUEL-EST3 TERR	3.492	4.79	13.9
	VEGETAL	5.040	7.04	110.2	TERRAPLEN	0.002	0.00	1.9
28.004	EXC SUELO 2	5.835	10.87	406.4	SUELO ADECUADO	12.941	20.10	259.6
	SUEL-EST3 DESM	0.001	0.07	57.4	SUEL-EST3 TERR	3.626	5.62	19.5
	VEGETAL	5.271	8.14	118.3	TERRAPLEN	0.002	0.00	1.9
29.434	EXC SUELO 2	4.185	7.16	413.6	SUELO ADECUADO	10.090	16.47	276.1
	SUEL-EST3 TERR	3.672	5.22	24.7	VEGETAL	5.317	7.57	125.9
	TERRAPLEN	3.395	2.43	4.4				
29.586	EXC SUELO 2	4.062	0.63	414.2	SUELO ADECUADO	9.971	1.52	277.6
	SUEL-EST3 TERR	3.676	0.56	25.3	VEGETAL	5.313	0.81	126.7
	TERRAPLEN	3.611	0.53	4.9				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
30.000	EXC SUELO 2	3.747	1.62	415.8	SUELO ADECUADO	9.677	4.07	281.7
	SUEL-EST3 TERR	3.689	1.52	26.8	VEGETAL	5.304	2.20	128.9
	TERRAPLEN	4.182	1.61	6.5				
31.171	EXC SUELO 2	3.084	4.00	419.8	SUELO ADECUADO	9.001	10.94	292.6
	SUEL-EST3 TERR	3.701	4.33	31.1	VEGETAL	5.270	6.19	135.1
	TERRAPLEN	5.520	5.68	12.2				
32.758	EXC SUELO 2	2.339	4.30	424.1	SUELO ADECUADO	8.255	13.69	306.3
	SUEL-EST3 TERR	3.705	5.88	37.0	VEGETAL	5.262	8.36	143.4
	TERRAPLEN	7.369	10.23	22.4				
33.762	EXC SUELO 2	1.940	2.15	426.3	SUELO ADECUADO	7.847	8.08	314.4
	SUEL-EST3 TERR	3.701	3.72	40.7	VEGETAL	5.280	5.29	148.7
	TERRAPLEN	8.614	8.02	30.4				
34.353	EXC SUELO 2	1.727	1.08	427.4	SUELO ADECUADO	7.612	4.57	319.0
	SUEL-EST3 TERR	3.696	2.19	42.9	VEGETAL	5.248	3.11	151.8
	TERRAPLEN	9.201	5.26	35.7				
35.948	EXC SUELO 2	1.217	2.35	429.7	SUELO ADECUADO	7.044	11.69	330.7
	SUEL-EST3 TERR	3.677	5.88	48.8	VEGETAL	5.195	8.33	160.2
	TERRAPLEN	10.825	15.97	51.7				
37.546	EXC SUELO 2	0.797	1.61	431.3	SUELO ADECUADO	6.397	10.74	341.4
	SUEL-EST3 TERR	3.658	5.86	54.6	VEGETAL	5.185	8.29	168.4
	TERRAPLEN	12.755	18.84	70.5				
37.723	EXC SUELO 2	0.757	0.14	431.4	SUELO ADECUADO	6.337	1.13	342.5
	SUEL-EST3 TERR	3.656	0.65	55.3	VEGETAL	5.187	0.92	169.4
	TERRAPLEN	12.974	2.28	72.8				
37.954	EXC SUELO 2	0.706	0.17	431.6	SUELO ADECUADO	6.236	1.45	344.0
	SUEL-EST3 TERR	3.651	0.84	56.1	VEGETAL	5.176	1.20	170.6
	TERRAPLEN	13.214	3.02	75.8				
38.689	EXC SUELO 2	0.556	0.46	432.1	SUELO ADECUADO	5.935	4.47	348.5
	SUEL-EST3 TERR	3.648	2.68	58.8	VEGETAL	5.149	3.79	174.4
	TERRAPLEN	14.002	10.00	85.8				
40.000	EXC SUELO 2	0.338	0.59	432.7	SUELO ADECUADO	5.375	7.41	355.9
	SUEL-EST3 TERR	3.619	4.76	63.6	VEGETAL	5.124	6.73	181.1
	TERRAPLEN	15.577	19.39	105.2				
40.237	EXC SUELO 2	0.314	0.08	432.7	SUELO ADECUADO	5.309	1.27	357.1
	SUEL-EST3 TERR	3.614	0.86	64.4	VEGETAL	5.120	1.21	182.3
	TERRAPLEN	15.801	3.72	108.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
41.082	EXC SUELO 2	0.237	0.23	433.0	SUELO ADECUADO	5.079	4.39	361.5
	SUEL-EST3 TERR	3.595	3.05	67.5	VEGETAL	5.114	4.32	186.6
	TERRAPLEN	16.639	13.71	122.6				
41.786	EXC SUELO 2	0.183	0.15	433.1	SUELO ADECUADO	4.864	3.50	365.0
	SUEL-EST3 TERR	3.562	2.52	70.0	VEGETAL	5.087	3.59	190.2
	TERRAPLEN	17.217	11.92	134.6				
42.625	EXC SUELO 2	0.127	0.13	433.3	SUELO ADECUADO	4.620	3.98	369.0
	SUEL-EST3 TERR	3.530	2.98	73.0	VEGETAL	5.066	4.26	194.5
	TERRAPLEN	17.964	14.76	149.3				
43.332	EXC SUELO 2	0.089	0.08	433.3	SUELO ADECUADO	4.437	3.20	372.2
	SUEL-EST3 TERR	3.501	2.49	75.4	VEGETAL	5.045	3.57	198.1
	TERRAPLEN	18.541	12.90	162.2				
44.179	EXC SUELO 2	0.053	0.06	433.4	SUELO ADECUADO	4.194	3.66	375.9
	SUEL-EST3 TERR	3.473	2.95	78.4	VEGETAL	5.030	4.27	202.3
	TERRAPLEN	19.331	16.04	178.3				
44.881	EXC SUELO 2	0.031	0.03	433.4	SUELO ADECUADO	4.018	2.88	378.7
	SUEL-EST3 TERR	3.449	2.43	80.8	VEGETAL	5.016	3.53	205.8
	TERRAPLEN	19.934	13.78	192.0				
45.743	EXC SUELO 2	0.012	0.02	433.4	SUELO ADECUADO	3.813	3.38	382.1
	SUEL-EST3 TERR	3.427	2.96	83.8	VEGETAL	5.009	4.32	210.2
	TERRAPLEN	20.749	17.53	209.6				
46.429	SUELO ADECUADO	3.550	2.53	384.6	SUEL-EST3 TERR	3.407	2.34	86.1
	VEGETAL	5.000	3.43	213.6	TERRAPLEN	21.466	14.48	224.1
47.314	SUELO ADECUADO	3.533	3.13	387.8	SUEL-EST3 TERR	3.389	3.01	89.1
	VEGETAL	5.000	4.43	218.0	TERRAPLEN	22.172	19.31	243.4
47.976	SUELO ADECUADO	3.517	2.33	390.1	SUEL-EST3 TERR	3.373	2.24	91.4
	VEGETAL	4.997	3.31	221.3	TERRAPLEN	22.668	14.84	258.2
48.891	SUELO ADECUADO	3.505	3.21	393.3	SUEL-EST3 TERR	3.361	3.08	94.5
	VEGETAL	5.004	4.58	225.9	TERRAPLEN	23.444	21.10	279.3
49.524	SUELO ADECUADO	3.494	2.21	395.5	SUEL-EST3 TERR	3.350	2.12	96.6
	VEGETAL	5.006	3.17	229.1	TERRAPLEN	23.955	15.00	294.3
50.000	SUELO ADECUADO	3.489	1.66	397.2	SUEL-EST3 TERR	3.345	1.59	98.2
	VEGETAL	5.012	2.38	231.5	TERRAPLEN	24.376	11.50	305.8
50.473	SUELO ADECUADO	3.486	1.65	398.8	SUEL-EST3 TERR	3.343	1.58	99.8
	VEGETAL	5.012	2.37	233.8	TERRAPLEN	24.462	11.55	317.4
51.072	SUELO ADECUADO	3.479	2.09	400.9	SUEL-EST3 TERR	3.336	2.00	101.8
	VEGETAL	5.006	3.00	236.8	TERRAPLEN	24.526	14.67	332.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
52.058	SUELO ADECUADO	3.478	3.43	404.4	SUEL-EST3 TERR	3.334	3.29	105.0
	VEGETAL	5.010	4.94	241.8	TERRAPLEN	24.746	24.29	356.3
52.618	SUELO ADECUADO	3.475	1.95	406.3	SUEL-EST3 TERR	3.331	1.87	106.9
	VEGETAL	5.010	2.81	244.6	TERRAPLEN	24.852	13.89	370.2
53.642	SUELO ADECUADO	3.479	3.56	409.9	SUEL-EST3 TERR	3.336	3.41	110.3
	VEGETAL	5.023	5.14	249.7	TERRAPLEN	25.165	25.61	395.8
54.165	SUELO ADECUADO	3.480	1.82	411.7	SUEL-EST3 TERR	3.336	1.74	112.1
	VEGETAL	5.027	2.63	252.3	TERRAPLEN	25.305	13.20	409.0
55.226	SUELO ADECUADO	3.491	3.70	415.4	SUEL-EST3 TERR	3.347	3.55	115.6
	VEGETAL	5.048	5.34	257.7	TERRAPLEN	25.715	27.07	436.1
55.714	SUELO ADECUADO	3.494	1.70	417.1	SUEL-EST3 TERR	3.350	1.63	117.3
	VEGETAL	5.056	2.47	260.2	TERRAPLEN	25.885	12.59	448.7
56.807	SUELO ADECUADO	3.511	3.83	420.9	SUEL-EST3 TERR	3.368	3.67	120.9
	VEGETAL	5.088	5.54	265.7	TERRAPLEN	26.399	28.57	477.2
57.263	SUELO ADECUADO	3.517	1.60	422.5	SUEL-EST3 TERR	3.373	1.54	122.5
	VEGETAL	5.099	2.32	268.0	TERRAPLEN	26.597	12.08	489.3
58.384	SUELO ADECUADO	3.542	3.96	426.5	SUEL-EST3 TERR	3.398	3.80	126.3
	VEGETAL	5.141	5.74	273.8	TERRAPLEN	27.223	30.17	519.5
58.808	SUELO ADECUADO	3.550	1.50	428.0	SUEL-EST3 TERR	3.406	1.44	127.7
	VEGETAL	5.155	2.18	275.9	TERRAPLEN	27.444	11.59	531.1
59.952	SUELO ADECUADO	3.582	4.08	432.1	SUEL-EST3 TERR	3.438	3.92	131.6
	VEGETAL	5.207	5.93	281.9	TERRAPLEN	28.187	31.82	562.9
60.000	SUELO ADECUADO	3.583	0.17	432.2	SUEL-EST3 TERR	3.439	0.17	131.8
	VEGETAL	5.209	0.25	282.1	TERRAPLEN	28.215	1.35	564.3
60.355	SUELO ADECUADO	3.592	1.27	433.5	SUEL-EST3 TERR	3.448	1.22	133.0
	VEGETAL	5.220	1.85	284.0	TERRAPLEN	28.278	10.03	574.3
61.513	SUELO ADECUADO	3.632	4.18	437.7	SUEL-EST3 TERR	3.488	4.02	137.0
	VEGETAL	5.270	6.07	290.0	TERRAPLEN	28.616	32.94	607.2
61.905	SUELO ADECUADO	3.644	1.43	439.1	SUEL-EST3 TERR	3.500	1.37	138.4
	VEGETAL	5.286	2.07	292.1	TERRAPLEN	28.712	11.24	618.5
63.064	SUELO ADECUADO	3.691	4.25	443.4	SUEL-EST3 TERR	3.547	4.08	142.5
	VEGETAL	5.347	6.16	298.3	TERRAPLEN	29.127	33.52	652.0
63.452	SUELO ADECUADO	3.705	1.43	444.8	SUEL-EST3 TERR	3.562	1.38	143.8
	VEGETAL	5.365	2.08	300.4	TERRAPLEN	29.244	11.32	663.3
64.604	SUELO ADECUADO	3.759	4.30	449.1	SUEL-EST3 TERR	3.612	4.13	148.0
	VEGETAL	5.435	6.22	306.6	TERRAPLEN	29.718	33.96	697.3
64.999	SUELO ADECUADO	3.776	1.49	450.6	SUEL-EST3 TERR	3.624	1.43	149.4
	VEGETAL	5.457	2.15	308.7	TERRAPLEN	29.860	11.77	709.0

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
66.130	SUELO ADECUADO	3.836	4.30	454.9	SUEL-EST3 TERR	3.651	4.11	153.5
	VEGETAL	5.535	6.22	314.9	TERRAPLEN	30.389	34.07	743.1
66.547	SUELO ADECUADO	3.856	1.60	456.5	SUEL-EST3 TERR	3.655	1.52	155.0
	VEGETAL	5.562	2.31	317.3	TERRAPLEN	30.559	12.71	755.8
67.644	SUELO ADECUADO	3.911	4.26	460.8	SUEL-EST3 TERR	3.655	4.01	159.1
	VEGETAL	5.646	6.15	323.4	TERRAPLEN	31.121	33.83	789.6
68.094	SUELO ADECUADO	3.925	1.76	462.5	SUEL-EST3 TERR	3.655	1.64	160.7
	VEGETAL	5.678	2.55	325.9	TERRAPLEN	31.327	14.05	803.7
69.142	SUELO ADECUADO	3.940	4.12	466.6	SUEL-EST3 TERR	3.655	3.83	164.5
	VEGETAL	5.768	6.00	331.9	TERRAPLEN	31.913	33.14	836.8
69.642	SUELO ADECUADO	3.940	1.97	468.6	SUEL-EST3 TERR	3.655	1.83	166.4
	VEGETAL	5.807	2.89	334.8	TERRAPLEN	32.160	16.02	852.8
70.000	SUELO ADECUADO	3.940	1.41	470.0	SUEL-EST3 TERR	3.655	1.31	167.7
	VEGETAL	5.840	2.08	336.9	TERRAPLEN	32.354	11.55	864.4
70.624	SUELO ADECUADO	3.940	2.46	472.5	SUEL-EST3 TERR	3.655	2.28	169.9
	VEGETAL	5.894	3.66	340.6	TERRAPLEN	32.414	20.21	884.6
71.190	SUELO ADECUADO	3.940	2.23	474.7	SUEL-EST3 TERR	3.655	2.07	172.0
	VEGETAL	5.939	3.35	343.9	TERRAPLEN	32.411	18.35	902.9
71.213	SUELO ADECUADO	3.940	0.09	474.8	SUEL-EST3 TERR	3.655	0.08	172.1
	VEGETAL	5.940	0.14	344.1	TERRAPLEN	32.411	0.75	903.7
72.088	SUELO ADECUADO	3.961	3.46	478.3	SUEL-EST3 TERR	3.673	3.21	175.3
	VEGETAL	6.024	5.23	349.3	TERRAPLEN	32.311	28.32	932.0
72.737	SUELO ADECUADO	3.964	2.57	480.8	SUEL-EST3 TERR	3.677	2.39	177.7
	VEGETAL	6.082	3.93	353.2	TERRAPLEN	32.226	20.94	953.0
73.536	SUELO ADECUADO	3.968	3.17	484.0	SUEL-EST3 TERR	3.680	2.94	180.6
	VEGETAL	6.164	4.89	358.1	TERRAPLEN	32.151	25.72	978.7
74.285	SUELO ADECUADO	3.971	2.97	487.0	SUEL-EST3 TERR	3.684	2.76	183.4
	VEGETAL	6.237	4.64	362.8	TERRAPLEN	32.006	24.03	1002.7
74.966	SUELO ADECUADO	3.973	2.71	489.7	SUEL-EST3 TERR	3.687	2.51	185.9
	VEGETAL	6.312	4.27	367.0	TERRAPLEN	31.885	21.75	1024.5
75.833	SUELO ADECUADO	3.977	3.45	493.1	SUEL-EST3 TERR	3.690	3.20	189.1
	VEGETAL	6.405	5.51	372.6	TERRAPLEN	31.642	27.54	1052.0
76.376	SUELO ADECUADO	3.979	2.16	495.3	SUEL-EST3 TERR	3.692	2.00	191.1
	VEGETAL	6.470	3.50	376.1	TERRAPLEN	31.489	17.14	1069.1
77.295	SUELO ADECUADO	3.983	3.66	498.9	SUEL-EST3 TERR	3.696	3.39	194.5
	VEGETAL	6.577	5.99	382.0	TERRAPLEN	31.140	28.78	1097.9
77.379	SUELO ADECUADO	3.984	0.33	499.3	SUEL-EST3 TERR	3.696	0.31	194.8
	VEGETAL	6.569	0.55	382.6	TERRAPLEN	31.030	2.61	1100.5

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
78.922	SUELO ADECUADO	3.992	6.15	505.4	SUEL-EST3 TERR	3.705	5.71	200.5
	VEGETAL	6.447	10.04	392.6	TERRAPLEN	29.123	46.41	1146.9
79.104	SUELO ADECUADO	3.993	0.73	506.2	SUEL-EST3 TERR	3.705	0.67	201.2
	VEGETAL	6.436	1.17	393.8	TERRAPLEN	28.908	5.28	1152.2
80.000	EXC SUELO 2	0.014	0.01	433.5	SUELO ADECUADO	4.276	3.70	509.9
	SUEL-EST3 TERR	3.710	3.32	204.5	VEGETAL	6.386	5.74	399.6
	TERRAPLEN	27.623	25.33	1177.5				
80.011	EXC SUELO 2	0.014	0.00	433.5	SUELO ADECUADO	4.275	0.05	509.9
	SUEL-EST3 TERR	3.710	0.04	204.6	VEGETAL	6.385	0.07	399.6
	TERRAPLEN	27.608	0.30	1177.8				
81.279	EXC SUELO 2	0.045	0.04	433.5	SUELO ADECUADO	4.565	5.60	515.5
	SUEL-EST3 TERR	3.722	4.71	209.3	VEGETAL	6.331	8.06	407.7
	TERRAPLEN	25.574	33.72	1211.6				
82.513	EXC SUELO 2	0.093	0.08	433.6	SUELO ADECUADO	4.870	5.82	521.3
	SUEL-EST3 TERR	3.730	4.60	213.9	VEGETAL	6.305	7.80	415.5
	TERRAPLEN	23.702	30.40	1242.0				
82.812	EXC SUELO 2	0.107	0.03	433.6	SUELO ADECUADO	4.934	1.47	522.8
	SUEL-EST3 TERR	3.732	1.12	215.0	VEGETAL	6.293	1.88	417.4
	TERRAPLEN	23.240	7.02	1249.0				
84.346	EXC SUELO 2	0.196	0.23	433.8	SUELO ADECUADO	5.288	7.84	530.6
	SUEL-EST3 TERR	3.742	5.73	220.7	VEGETAL	6.253	9.62	427.0
	TERRAPLEN	20.962	33.90	1282.9				
85.880	EXC SUELO 2	0.311	0.39	434.2	SUELO ADECUADO	5.636	8.38	539.0
	SUEL-EST3 TERR	3.751	5.75	226.5	VEGETAL	6.255	9.59	436.6
	TERRAPLEN	18.838	30.53	1313.4				
87.208	EXC SUELO 2	0.432	0.49	434.7	SUELO ADECUADO	5.914	7.67	546.7
	SUEL-EST3 TERR	3.758	4.99	231.4	VEGETAL	6.291	8.33	444.9
	TERRAPLEN	17.088	23.85	1337.3				
87.413	EXC SUELO 2	0.453	0.09	434.8	SUELO ADECUADO	5.979	1.22	547.9
	SUEL-EST3 TERR	3.758	0.77	232.2	VEGETAL	6.296	1.29	446.2
	TERRAPLEN	16.791	3.47	1340.7				
88.947	EXC SUELO 2	0.627	0.83	435.6	SUELO ADECUADO	6.350	9.46	557.4
	SUEL-EST3 TERR	3.765	5.77	238.0	VEGETAL	6.307	9.67	455.9
	TERRAPLEN	14.648	24.11	1364.8				
90.000	EXC SUELO 2	0.771	0.74	436.4	SUELO ADECUADO	6.664	6.85	564.2
	SUEL-EST3 TERR	3.770	3.97	242.0	VEGETAL	6.200	6.58	462.5
	TERRAPLEN	13.033	14.57	1379.4				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
90.480	EXC SUELO 2	0.881	0.40	436.8	SUELO ADECUADO	6.844	3.24	567.5
	SUEL-EST3 TERR	3.772	1.81	243.8	VEGETAL	6.142	2.96	465.4
	TERRAPLEN	12.201	6.06	1385.5				
92.014	EXC SUELO 2	1.300	1.67	438.4	SUELO ADECUADO	7.548	11.04	578.5
	SUEL-EST3 TERR	3.777	5.79	249.6	VEGETAL	5.960	9.28	474.7
	TERRAPLEN	9.543	16.68	1402.2				
93.221	EXC SUELO 2	1.708	1.82	440.3	SUELO ADECUADO	8.124	9.46	588.0
	SUEL-EST3 TERR	3.781	4.56	254.1	VEGETAL	5.820	7.11	481.8
	TERRAPLEN	7.568	10.33	1412.5				
93.548	EXC SUELO 2	1.832	0.58	440.8	SUELO ADECUADO	8.274	2.68	590.6
	SUEL-EST3 TERR	3.782	1.24	255.4	VEGETAL	5.782	1.90	483.7
	TERRAPLEN	7.062	2.39	1414.9				
95.081	EXC SUELO 2	2.508	3.33	444.2	SUELO ADECUADO	9.937	13.96	604.6
	SUEL-EST3 TERR	3.780	5.80	261.1	VEGETAL	5.605	8.73	492.4
	TERRAPLEN	3.879	8.39	1423.3				
96.614	EXC SUELO 2	4.200	5.14	449.3	SUELO ADECUADO	13.403	17.89	622.5
	SUEL-EST3 TERR	3.767	5.78	266.9	VEGETAL	5.430	8.46	500.9
	TERRAPLEN	0.002	2.97	1426.2				
98.148	EXC SUELO 2	5.891	7.74	457.0	SUELO ADECUADO	13.081	20.31	642.8
	SUEL-EST3 TERR	3.742	5.76	272.7	VEGETAL	5.258	8.20	509.1
	TERRAPLEN	0.002	0.00	1426.2				
99.682	EXC SUELO 2	7.439	10.22	467.3	SUELO ADECUADO	12.705	19.78	662.6
	SUEL-EST3 TERR	3.706	5.71	278.4	VEGETAL	5.088	7.94	517.0
	TERRAPLEN	0.001	0.00	1426.2				
100.000	EXC SUELO 2	7.742	2.41	469.7	SUELO ADECUADO	12.619	4.03	666.6
	SUEL-EST3 TERR	3.698	1.18	279.6	VEGETAL	5.052	1.61	518.6
	TERRAPLEN	0.001	0.00	1426.2				
100.005	EXC SUELO 2	7.746	0.04	469.7	SUELO ADECUADO	12.619	0.06	666.7
	SUEL-EST3 TERR	3.698	0.02	279.6	VEGETAL	5.052	0.03	518.7
	TERRAPLEN	0.001	0.00	1426.2				
100.015	EXC SUELO 2	7.753	0.08	469.8	SUELO ADECUADO	12.617	0.13	666.8
	SUEL-EST3 TERR	3.698	0.04	279.6	VEGETAL	5.051	0.05	518.7
	TERRAPLEN	0.001	0.00	1426.2				
101.162	EXC SUELO 2	8.531	9.34	479.1	SUELO ADECUADO	12.395	14.34	681.1
	SUEL-EST3 DESM	0.001	0.00	57.4	SUEL-EST3 TERR	3.665	4.22	283.9
	VEGETAL	4.962	5.74	524.5	TERRAPLEN	0.001	0.00	1426.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
101.213	EXC SUELO 2	8.563	0.44	479.6	SUELO ADECUADO	12.384	0.63	681.8
	SUEL-EST3 TERR	3.664	0.19	284.0	VEGETAL	4.958	0.25	524.7
	TERRAPLEN	0.001	0.00	1426.2				
103.174	EXC SUELO 2	9.784	17.99	497.6	SUELO ADECUADO	11.969	23.88	705.6
	SUEL-EST3 DESM	0.083	0.08	57.5	SUEL-EST3 TERR	3.496	7.02	291.1
	VEGETAL	4.792	9.56	534.3	TERRAPLEN	0.001	0.00	1426.2
105.134	EXC SUELO 2	10.888	20.26	517.8	SUELO ADECUADO	11.554	23.05	728.7
	SUEL-EST3 DESM	0.306	0.38	57.9	SUEL-EST3 TERR	3.160	6.52	297.6
	VEGETAL	4.626	9.23	543.5	TERRAPLEN	0.001	0.00	1426.2
107.094	EXC SUELO 2	11.878	22.31	540.1	SUELO ADECUADO	11.138	22.24	750.9
	SUEL-EST3 DESM	0.755	1.04	58.9	SUEL-EST3 TERR	2.586	5.63	303.2
	VEGETAL	4.459	8.90	552.4	TERRAPLEN	0.001	0.00	1426.2
109.053	EXC SUELO 2	12.600	23.98	564.1	SUELO ADECUADO	10.613	21.31	772.2
	SUEL-EST3 DESM	1.917	2.62	61.5	SUEL-EST3 TERR	1.267	3.77	307.0
	VEGETAL	4.249	8.53	560.9				
110.000	EXC SUELO 2	11.922	11.61	575.7	SUELO ADECUADO	9.669	9.60	781.8
	SUEL-EST3 DESM	2.190	1.94	63.5	SUEL-EST3 TERR	0.710	0.94	307.9
	VEGETAL	3.872	3.85	564.8				
111.012	EXC SUELO 2	15.803	14.03	589.7	SUELO ADECUADO	11.680	10.80	792.6
	SUEL-EST3 DESM	3.336	2.80	66.3	SUEL-EST3 TERR	0.165	0.44	308.4
	VEGETAL	5.118	4.55	569.3	TERRAPLEN	0.094	0.05	1426.3
112.971	EXC SUELO 2	18.872	33.96	623.7	SUELO ADECUADO	12.697	23.88	816.5
	SUEL-EST3 DESM	3.801	6.99	73.3	SUEL-EST3 TERR	0.000	0.16	308.5
	VEGETAL	5.924	10.82	580.1	TERRAPLEN	0.199	0.29	1426.6
114.930	EXC SUELO 2	20.598	38.66	662.4	SUELO ADECUADO	12.665	24.84	841.4
	SUEL-EST3 DESM	3.788	7.43	80.7	VEGETAL	6.022	11.70	591.8
	TERRAPLEN	0.178	0.37	1427.0				
116.888	EXC SUELO 2	22.347	42.04	704.4	SUELO ADECUADO	12.633	24.77	866.1
	SUEL-EST3 DESM	3.775	7.40	88.1	VEGETAL	6.117	11.88	603.7
	TERRAPLEN	0.165	0.34	1427.3				
118.846	EXC SUELO 2	24.120	45.49	749.9	SUELO ADECUADO	12.602	24.71	890.8
	SUEL-EST3 DESM	3.759	7.38	95.5	VEGETAL	6.211	12.07	615.8
	TERRAPLEN	0.160	0.32	1427.6				
120.000	EXC SUELO 2	25.174	28.44	778.4	SUELO ADECUADO	12.583	14.53	905.4
	SUEL-EST3 DESM	3.749	4.33	99.8	VEGETAL	6.267	7.20	623.0
	TERRAPLEN	0.160	0.18	1427.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
120.804	EXC SUELO 2	25.276	20.28	798.6	SUELO ADECUADO	12.570	10.11	915.5
	SUEL-EST3 DESM	3.743	3.01	102.8	VEGETAL	6.271	5.04	628.0
	TERRAPLEN	0.160	0.13	1427.9				
122.760	EXC SUELO 2	25.528	49.69	848.3	SUELO ADECUADO	12.538	24.56	940.0
	SUEL-EST3 DESM	3.726	7.30	110.1	VEGETAL	6.282	12.28	640.3
	TERRAPLEN	0.160	0.31	1428.2				
124.716	EXC SUELO 2	25.804	50.20	898.5	SUELO ADECUADO	12.507	24.49	964.5
	SUEL-EST3 DESM	3.711	7.27	117.4	VEGETAL	6.293	12.30	652.6
	TERRAPLEN	0.160	0.31	1428.5				
126.672	EXC SUELO 2	26.081	50.74	949.3	SUELO ADECUADO	12.476	24.43	989.0
	SUEL-EST3 DESM	3.696	7.24	124.6	VEGETAL	6.305	12.32	664.9
	TERRAPLEN	0.160	0.31	1428.9				
128.628	EXC SUELO 2	26.383	51.31	1000.6	SUELO ADECUADO	12.444	24.37	1013.3
	SUEL-EST3 DESM	3.678	7.21	131.8	VEGETAL	6.318	12.35	677.3
	TERRAPLEN	0.160	0.31	1429.2				
130.000	EXC SUELO 2	26.613	36.35	1036.9	SUELO ADECUADO	12.423	17.06	1030.4
	SUEL-EST3 DESM	3.660	5.03	136.9	VEGETAL	6.329	8.68	686.0
	TERRAPLEN	0.160	0.22	1429.4				
130.582	EXC SUELO 2	26.379	15.42	1052.3	SUELO ADECUADO	12.414	7.23	1037.6
	SUEL-EST3 DESM	3.657	2.13	139.0	VEGETAL	6.315	3.68	689.6
	TERRAPLEN	0.160	0.09	1429.5				
132.536	EXC SUELO 2	25.638	50.82	1103.2	SUELO ADECUADO	12.383	24.23	1061.8
	SUEL-EST3 DESM	3.647	7.14	146.1	VEGETAL	6.271	12.30	701.9
	TERRAPLEN	0.159	0.31	1429.8				
134.488	EXC SUELO 2	24.962	49.39	1152.6	SUELO ADECUADO	12.352	24.14	1086.0
	SUEL-EST3 DESM	3.637	7.11	153.2	VEGETAL	6.231	12.20	714.1
	TERRAPLEN	0.158	0.31	1430.1				
136.439	EXC SUELO 2	24.350	48.10	1200.7	SUELO ADECUADO	12.321	24.07	1110.1
	SUEL-EST3 DESM	3.625	7.08	160.3	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	6.194	12.12	726.3	TERRAPLEN	0.157	0.31	1430.4
138.391	EXC SUELO 2	23.803	47.00	1247.7	SUELO ADECUADO	12.291	24.02	1134.1
	SUEL-EST3 DESM	3.616	7.07	167.4	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	6.159	12.06	738.3	TERRAPLEN	0.158	0.31	1430.7
140.000	EXC SUELO 2	23.399	37.97	1285.6	SUELO ADECUADO	12.266	19.76	1153.8
	SUEL-EST3 DESM	3.607	5.81	173.2	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	6.134	9.89	748.2	TERRAPLEN	0.160	0.26	1431.0

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
140.341	EXC SUELO 2	23.220	7.95	1293.6	SUELO ADECUADO	12.261	4.18	1158.0
	SUEL-EST3 DESM	3.605	1.23	174.4	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	6.117	2.09	750.3	TERRAPLEN	0.160	0.05	1431.0
142.290	EXC SUELO 2	22.248	44.31	1337.9	SUELO ADECUADO	12.231	23.87	1181.9
	SUEL-EST3 DESM	3.595	7.02	181.5	RELLEN MEDIANA	0.002	0.00	0.0
	VEGETAL	6.031	11.84	762.1	TERRAPLEN	0.163	0.31	1431.4
144.237	EXC SUELO 2	21.361	42.45	1380.3	SUELO ADECUADO	12.202	23.79	1205.7
	SUEL-EST3 DESM	3.584	6.99	188.4	RELLEN MEDIANA	0.002	0.00	0.0
	VEGETAL	5.943	11.66	773.8	TERRAPLEN	0.163	0.32	1431.7
146.184	EXC SUELO 2	20.553	40.80	1421.1	SUELO ADECUADO	12.173	23.73	1229.4
	SUEL-EST3 DESM	3.576	6.97	195.4	VEGETAL	5.860	11.49	785.3
	TERRAPLEN	0.161	0.31	1432.0				
148.130	EXC SUELO 2	19.827	39.29	1460.4	SUELO ADECUADO	12.144	23.66	1253.1
	SUEL-EST3 DESM	3.566	6.95	202.4	VEGETAL	5.782	11.33	796.6
	TERRAPLEN	0.164	0.32	1432.3				
150.000	EXC SUELO 2	19.210	36.50	1496.9	SUELO ADECUADO	12.117	22.68	1275.7
	SUEL-EST3 DESM	3.556	6.66	209.0	VEGETAL	5.712	10.75	807.4
	TERRAPLEN	0.179	0.32	1432.6				
150.064	EXC SUELO 2	19.212	1.23	1498.2	SUELO ADECUADO	12.116	0.78	1276.5
	SUEL-EST3 DESM	3.556	0.23	209.3	VEGETAL	5.711	0.37	807.7
	TERRAPLEN	0.178	0.01	1432.6				
150.213	EXC SUELO 2	19.219	2.86	1501.0	SUELO ADECUADO	12.116	1.81	1278.3
	SUEL-EST3 DESM	3.556	0.53	209.8	VEGETAL	5.710	0.85	808.6
	TERRAPLEN	0.177	0.03	1432.7				
160.000	EXC SUELO 2	20.077	192.30	1693.3	SUELO ADECUADO	12.114	118.57	1396.9
	SUEL-EST3 DESM	3.555	34.80	244.6	VEGETAL	5.668	55.68	864.2
	TERRAPLEN	0.136	1.53	1434.2				
166.844	EXC SUELO 2	13.336	114.34	1807.7	SUELO ADECUADO	12.276	83.46	1480.4
	SUEL-EST3 DESM	2.284	19.98	264.6	SUEL-EST3 TERR	1.199	4.10	312.6
	VEGETAL	5.264	37.41	901.7	TERRAPLEN	0.107	0.83	1435.0
166.854	EXC SUELO 2	12.817	0.13	1807.8	SUELO ADECUADO	10.819	0.12	1480.5
	SUEL-EST3 DESM	2.281	0.02	264.6	SUEL-EST3 TERR	0.933	0.01	312.6
	VEGETAL	4.660	0.05	901.7	TERRAPLEN	0.105	0.00	1435.0
169.621	EXC SUELO 2	11.033	33.00	1840.8	SUELO ADECUADO	10.346	29.28	1509.8
	SUEL-EST3 DESM	1.530	5.27	269.9	SUEL-EST3 TERR	1.684	3.62	316.3
	VEGETAL	4.610	12.83	914.5	TERRAPLEN	0.662	1.06	1436.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
170.000	EXC SUELO 2	10.830	4.14	1844.9	SUELO ADECUADO	10.309	3.91	1513.7
	SUEL-EST3 DESM	1.440	0.56	270.4	SUEL-EST3 TERR	1.772	0.65	316.9
	VEGETAL	4.602	1.75	916.3	TERRAPLEN	0.739	0.27	1436.3
172.394	EXC SUELO 2	5.320	19.33	1864.3	SUELO ADECUADO	9.817	24.09	1537.8
	SUEL-EST3 DESM	0.000	1.72	272.1	SUEL-EST3 TERR	3.134	5.87	322.8
	VEGETAL	4.244	10.59	926.9	TERRAPLEN	1.105	2.21	1438.6
175.165	EXC SUELO 2	0.000	7.37	1871.6	SUELO ADECUADO	3.289	18.16	1555.9
	SUEL-EST3 TERR	3.138	8.69	331.5	VEGETAL	4.713	12.41	939.3
	TERRAPLEN	9.386	14.54	1453.1				
177.938	SUELO ADECUADO	3.289	9.12	1565.0	SUEL-EST3 TERR	3.138	8.70	340.2
	VEGETAL	5.160	13.69	953.0	TERRAPLEN	17.137	36.77	1489.9
180.000	SUELO ADECUADO	3.286	6.78	1571.8	SUEL-EST3 TERR	3.135	6.47	346.7
	VEGETAL	5.476	10.97	963.9	TERRAPLEN	23.286	41.68	1531.5
180.710	SUELO ADECUADO	3.289	2.33	1574.2	SUEL-EST3 TERR	3.138	2.23	348.9
	VEGETAL	5.433	3.87	967.8	TERRAPLEN	22.239	16.16	1547.7
183.482	SUELO ADECUADO	3.289	9.12	1583.3	SUEL-EST3 TERR	3.137	8.70	357.6
	VEGETAL	5.237	14.79	982.6	TERRAPLEN	18.112	55.93	1603.6
186.255	SUELO ADECUADO	3.289	9.12	1592.4	SUEL-EST3 TERR	3.138	8.70	366.3
	VEGETAL	5.018	14.22	996.8	TERRAPLEN	14.028	44.56	1648.2
189.027	EXC SUELO 2	0.014	0.02	1871.7	SUELO ADECUADO	3.988	10.09	1602.5
	SUEL-EST3 TERR	3.137	8.70	375.0	VEGETAL	4.785	13.59	1010.4
	TERRAPLEN	9.336	32.38	1680.6				
190.000	EXC SUELO 2	0.475	0.24	1871.9	SUELO ADECUADO	7.305	5.49	1608.0
	SUEL-EST3 TERR	3.134	3.05	378.0	VEGETAL	4.694	4.61	1015.0
	TERRAPLEN	5.084	7.02	1687.6				
191.798	EXC SUELO 2	1.041	1.36	1873.3	SUELO ADECUADO	8.352	14.08	1622.0
	SUEL-EST3 TERR	3.137	5.64	383.7	VEGETAL	4.626	8.38	1023.4
	TERRAPLEN	3.493	7.71	1695.3				
200.000	EXC SUELO 2	5.371	26.29	1899.6	SUELO ADECUADO	11.140	79.94	1702.0
	SUEL-EST3 TERR	3.258	26.23	409.9	VEGETAL	4.458	37.25	1060.6
	TERRAPLEN	0.001	14.33	1709.6				
205.133	EXC SUELO 2	7.666	33.46	1933.0	SUELO ADECUADO	11.538	58.20	1760.2
	SUEL-EST3 TERR	3.391	17.07	427.0	VEGETAL	4.617	23.29	1083.9
210.000	EXC SUELO 2	9.222	41.10	1974.1	SUELO ADECUADO	10.911	54.63	1814.8
	SUEL-EST3 TERR	3.269	16.21	443.2	VEGETAL	4.368	21.87	1105.8
	TERRAPLEN	0.001	0.00	1709.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
219.995	EXC SUELO 2	0.565	48.91	2023.0	SUELO ADECUADO	6.768	88.35	1903.2
	SUEL-EST3 TERR	3.404	33.35	476.5	VEGETAL	5.461	49.12	1154.9
	TERRAPLEN	8.100	40.49	1750.1				
220.000	EXC SUELO 2	0.564	0.00	2023.0	SUELO ADECUADO	6.769	0.03	1903.2
	SUEL-EST3 TERR	3.404	0.02	476.5	VEGETAL	5.462	0.03	1154.9
	TERRAPLEN	8.106	0.04	1750.2				
220.005	EXC SUELO 2	0.564	0.00	2023.0	SUELO ADECUADO	6.769	0.03	1903.2
	SUEL-EST3 TERR	3.404	0.02	476.6	VEGETAL	5.461	0.03	1155.0
	TERRAPLEN	8.104	0.04	1750.2				
230.000	EXC SUELO 2	0.000	2.82	2025.8	SUELO ADECUADO	3.690	52.27	1955.5
	SUEL-EST3 TERR	3.404	34.02	510.6	VEGETAL	5.511	54.83	1209.8
	TERRAPLEN	11.067	95.81	1846.0				
240.000	SUELO ADECUADO	3.690	36.90	1992.4	SUEL-EST3 TERR	3.404	34.04	544.6
	VEGETAL	5.900	57.06	1266.9	TERRAPLEN	16.107	135.87	1981.9
250.000	SUELO ADECUADO	3.689	36.89	2029.3	SUEL-EST3 TERR	3.403	34.03	578.7
	VEGETAL	6.153	60.27	1327.1	TERRAPLEN	19.626	178.67	2160.6
260.000	SUELO ADECUADO	3.689	36.89	2066.2	SUEL-EST3 TERR	3.402	34.03	612.7
	VEGETAL	6.724	64.39	1391.5	TERRAPLEN	27.842	237.34	2397.9
263.874	SUELO ADECUADO	3.689	14.29	2080.5	SUEL-EST3 TERR	3.403	13.18	625.9
	VEGETAL	6.947	26.48	1418.0	TERRAPLEN	31.250	114.46	2512.4
270.000	SUELO ADECUADO	3.692	22.61	2103.1	SUEL-EST3 TERR	3.405	20.85	646.7
	RELLEN MEDIANA	0.002	0.01	0.1	VEGETAL	7.322	43.70	1461.7
	TERRAPLEN	37.104	209.37	2721.7				
280.000	SUELO ADECUADO	3.699	36.95	2140.0	SUEL-EST3 TERR	3.413	34.09	680.8
	VEGETAL	8.305	78.14	1539.8	TERRAPLEN	54.059	455.81	3177.5
280.000	SUELO ADECUADO	3.699	0.00	2140.0	SUEL-EST3 TERR	3.413	0.00	680.8
	VEGETAL	8.305	0.00	1539.8	TERRAPLEN	54.059	0.00	3177.5
281.105	SUELO ADECUADO	3.670	4.07	2144.1	SUEL-EST3 TERR	3.385	3.76	684.6
	VEGETAL	8.425	9.24	1549.1	TERRAPLEN	56.820	61.26	3238.8
283.706	SUELO ADECUADO	3.611	9.47	2153.6	SUEL-EST3 TERR	3.326	8.73	693.3
	VEGETAL	8.718	22.30	1571.4	TERRAPLEN	63.577	156.58	3395.4
286.302	SUELO ADECUADO	3.608	9.37	2162.9	SUEL-EST3 TERR	3.322	8.63	701.9
	VEGETAL	9.059	23.08	1594.5	TERRAPLEN	70.932	174.59	3570.0
288.886	SUELO ADECUADO	3.627	9.35	2172.3	SUEL-EST3 TERR	3.339	8.61	710.5
	VEGETAL	9.448	23.91	1618.4	TERRAPLEN	79.155	193.91	3763.9
290.000	SUELO ADECUADO	3.649	4.05	2176.3	SUEL-EST3 TERR	3.361	3.73	714.2
	VEGETAL	9.635	10.63	1629.0	TERRAPLEN	83.050	90.35	3854.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
290.267	SUELO ADECUADO	3.654	0.97	2177.3	SUEL-EST3 TERR	3.366	0.90	715.1
	VEGETAL	9.654	2.58	1631.6	TERRAPLEN	83.369	22.22	3876.4
290.277	SUELO ADECUADO	3.653	0.04	2177.4	SUEL-EST3 TERR	3.367	0.03	715.2
	VEGETAL	9.655	0.10	1631.7	TERRAPLEN	83.383	0.83	3877.3
291.454	SUELO ADECUADO	3.677	4.31	2181.7	SUEL-EST3 TERR	3.390	3.98	719.2
	VEGETAL	9.742	11.42	1643.1	TERRAPLEN	84.819	98.99	3976.3
294.001	SUELO ADECUADO	3.767	9.48	2191.2	SUEL-EST3 TERR	3.480	8.75	727.9
	VEGETAL	9.977	25.11	1668.2	TERRAPLEN	88.521	220.75	4197.0
296.525	SUELO ADECUADO	3.891	9.67	2200.8	SUEL-EST3 TERR	3.604	8.94	736.8
	VEGETAL	10.258	25.54	1693.7	TERRAPLEN	92.871	228.92	4425.9
299.024	SUELO ADECUADO	4.044	9.92	2210.7	SUEL-EST3 TERR	3.757	9.20	746.0
	VEGETAL	10.582	26.04	1719.8	TERRAPLEN	97.892	238.36	4664.3
300.000	SUELO ADECUADO	4.116	3.98	2214.7	SUEL-EST3 TERR	3.829	3.70	749.7
	VEGETAL	10.725	10.40	1730.2	TERRAPLEN	100.103	96.62	4760.9
300.183	SUELO ADECUADO	4.130	0.75	2215.5	SUEL-EST3 TERR	3.843	0.70	750.4
	VEGETAL	10.735	1.96	1732.1	TERRAPLEN	100.122	18.32	4779.2
301.494	SUELO ADECUADO	4.225	5.48	2220.9	SUEL-EST3 TERR	3.938	5.10	755.5
	VEGETAL	10.810	14.12	1746.3	TERRAPLEN	100.281	131.36	4910.6
303.938	SUELO ADECUADO	4.433	10.58	2231.5	SUEL-EST3 TERR	4.146	9.88	765.4
	VEGETAL	10.992	26.64	1772.9	TERRAPLEN	101.087	246.07	5156.7
305.069	SUELO ADECUADO	4.536	5.07	2236.6	SUEL-EST3 TERR	4.249	4.75	770.2
	VEGETAL	11.088	12.49	1785.4	TERRAPLEN	101.601	114.62	5271.3
307.278	SUELO ADECUADO	4.715	10.22	2246.8	SUEL-EST3 TERR	4.427	9.58	779.8
	VEGETAL	11.252	24.67	1810.1	TERRAPLEN	102.381	225.30	5496.6
309.509	SUELO ADECUADO	4.907	10.73	2257.6	SUEL-EST3 TERR	4.619	10.09	789.8
	VEGETAL	11.442	25.32	1835.4	TERRAPLEN	103.472	229.63	5726.2
310.000	SUELO ADECUADO	4.948	2.42	2260.0	SUEL-EST3 TERR	4.660	2.28	792.1
	VEGETAL	11.483	5.63	1841.0	TERRAPLEN	103.711	50.86	5777.1
310.000	SUELO ADECUADO	4.948	0.00	2260.0	SUEL-EST3 TERR	4.660	0.00	792.1
	VEGETAL	11.723	0.00	1841.0	TERRAPLEN	103.831	0.00	5777.1
311.481	SUELO ADECUADO	5.078	7.42	2267.4	SUEL-EST3 TERR	4.791	7.00	799.1
	VEGETAL	11.992	17.56	1858.6	TERRAPLEN	108.270	157.06	5934.1
311.762	SUELO ADECUADO	5.103	1.43	2268.8	SUEL-EST3 TERR	4.816	1.35	800.5
	VEGETAL	12.043	3.38	1861.9	TERRAPLEN	109.128	30.54	5964.7
312.874	SUELO ADECUADO	5.189	5.72	2274.5	SUEL-EST3 TERR	4.902	5.40	805.9
	VEGETAL	12.231	13.50	1875.4	TERRAPLEN	112.418	123.18	6087.9
314.038	SUELO ADECUADO	5.279	6.09	2280.6	SUEL-EST3 TERR	4.991	5.76	811.6
	VEGETAL	12.433	14.35	1889.8	TERRAPLEN	115.989	132.93	6220.8

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
316.335	SUELO ADECUADO	5.433	12.30	2292.9	SUEL-EST3 TERR	5.145	11.64	823.3
	VEGETAL	12.619	28.77	1918.6	TERRAPLEN	122.902	274.37	6495.2
318.648	SUELO ADECUADO	5.564	12.72	2305.7	SUEL-EST3 TERR	5.277	12.05	835.3
	VEGETAL	12.639	29.21	1947.8	TERRAPLEN	129.465	291.86	6787.0
320.000	SUELO ADECUADO	5.627	7.57	2313.2	SUEL-EST3 TERR	5.339	7.18	842.5
	VEGETAL	12.636	17.09	1964.9	TERRAPLEN	133.045	177.46	6964.5
320.980	SUELO ADECUADO	5.673	5.54	2318.8	SUEL-EST3 TERR	5.385	5.25	847.8
	VEGETAL	12.575	12.35	1977.2	TERRAPLEN	132.466	130.10	7094.6
322.083	SUELO ADECUADO	5.712	6.28	2325.0	SUEL-EST3 TERR	5.425	5.96	853.7
	VEGETAL	12.494	13.83	1991.0	TERRAPLEN	131.637	145.65	7240.2
323.325	SUELO ADECUADO	5.757	7.12	2332.2	SUEL-EST3 TERR	5.471	6.77	860.5
	VEGETAL	12.417	15.47	2006.5	TERRAPLEN	130.751	162.94	7403.2
325.683	SUELO ADECUADO	5.819	13.65	2345.8	SUEL-EST3 TERR	5.532	12.97	873.5
	VEGETAL	12.244	29.08	2035.6	TERRAPLEN	128.733	305.93	7709.1
328.051	SUELO ADECUADO	5.856	13.82	2359.6	SUEL-EST3 TERR	5.569	13.14	886.6
	VEGETAL	12.046	28.76	2064.3	TERRAPLEN	126.386	302.06	8011.2
329.990	SUELO ADECUADO	5.866	11.36	2371.0	SUEL-EST3 TERR	5.578	10.81	897.4
	VEGETAL	11.863	23.18	2087.5	TERRAPLEN	124.211	242.95	8254.1
330.000	EXC SUELO 1	47.449	0.24	0.2	SUELO ADECUADO	5.865	0.06	2371.1
	SUEL-EST3 TERR	5.578	0.06	897.5	VEGETAL	11.862	0.12	2087.6
	TERRAPLEN	171.649	1.48	8255.6				
330.429	EXC SUELO 1	47.289	20.32	20.6	SUELO ADECUADO	5.867	2.52	2373.6
	SUEL-EST3 TERR	5.581	2.39	899.9	VEGETAL	11.822	5.08	2092.7
	TERRAPLEN	171.511	73.61	8329.2				
332.304	EXC SUELO 1	46.548	87.97	108.5	SUELO ADECUADO	5.865	11.00	2384.6
	SUEL-EST3 TERR	5.579	10.46	910.3	VEGETAL	11.637	21.99	2114.7
	TERRAPLEN	170.639	320.77	8650.0				
334.397	EXC SUELO 1	45.811	96.65	205.2	SUELO ADECUADO	5.863	12.27	2396.8
	SUEL-EST3 TERR	5.577	11.67	922.0	VEGETAL	11.453	24.16	2138.9
	TERRAPLEN	169.789	356.26	9006.2				
340.000	EXC SUELO 1	43.967	251.51	456.7	SUELO ADECUADO	5.827	32.75	2429.6
	SUEL-EST3 TERR	5.540	31.14	953.1	VEGETAL	10.992	62.88	2201.8
	TERRAPLEN	167.232	944.16	9950.4				
347.243	EXC SUELO 1	43.633	317.24	773.9	SUELO ADECUADO	5.777	42.02	2471.6
	SUEL-EST3 TERR	5.489	39.94	993.1	VEGETAL	10.908	79.31	2281.1
	TERRAPLEN	172.815	1231.48	11181.9				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
350.000	EXC SUELO 1	43.449	120.04	894.0	SUELO ADECUADO	5.757	15.90	2487.5
	SUEL-EST3 TERR	5.470	15.11	1008.2	VEGETAL	10.862	30.01	2311.1
	TERRAPLEN	174.904	479.33	11661.2				
360.000	EXC SUELO 1	41.286	423.67	1317.7	SUELO ADECUADO	5.398	55.77	2543.3
	SUEL-EST3 TERR	5.254	53.62	1061.8	VEGETAL	10.321	105.92	2417.0
	TERRAPLEN	187.091	1809.97	13471.2				
364.397	EXC SUELO 1	39.749	178.15	1495.8	SUELO ADECUADO	5.235	23.38	2566.7
	SUEL-EST3 TERR	5.092	22.75	1084.6	VEGETAL	9.936	44.54	2461.5
	TERRAPLEN	172.907	791.45	14262.6				
364.432	EXC SUELO 1	39.737	1.39	1497.2	SUELO ADECUADO	5.234	0.18	2566.8
	SUEL-EST3 TERR	5.090	0.18	1084.7	VEGETAL	9.933	0.35	2461.9
	TERRAPLEN	172.800	6.05	14268.7				
366.614	EXC SUELO 1	39.048	85.95	1583.2	SUELO ADECUADO	5.168	11.35	2578.2
	SUEL-EST3 TERR	5.024	11.03	1095.8	VEGETAL	9.762	21.49	2483.4
	TERRAPLEN	166.301	369.96	14638.6				
370.000	EXC SUELO 1	37.837	130.17	1713.3	SUELO ADECUADO	5.041	17.28	2595.5
	SUEL-EST3 TERR	4.897	16.80	1112.6	VEGETAL	9.459	32.54	2515.9
	TERRAPLEN	155.700	545.15	15183.8				
371.619	EXC SUELO 1	37.217	60.76	1774.1	SUELO ADECUADO	4.987	8.12	2603.6
	SUEL-EST3 TERR	4.844	7.89	1120.5	VEGETAL	9.304	15.19	2531.1
	TERRAPLEN	151.447	248.64	15432.4				

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	1774.1
EXC SUELO 2	2025.8
SUELO ADECUADO	2603.6
SUEL-EST3 DESM	272.1
SUEL-EST3 TERR	1120.5
VEGETAL	2531.1
TERRAPLEN	15432.4

REPOSICIÓN DE CAMINOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	1.855	0.00	0.0	TERRAPLEN	0.002	0.00	0.0
2.000	EXC SUELO 2	1.365	3.22	3.2				
4.000	EXC SUELO 2	1.267	2.63	5.9				
6.000	EXC SUELO 2	1.590	2.86	8.7				
8.000	EXC SUELO 2	1.688	3.28	12.0				
10.000	EXC SUELO 2	1.397	3.09	15.1	TERRAPLEN	0.019	0.02	0.0
12.000	EXC SUELO 2	1.498	2.90	18.0	TERRAPLEN	0.000	0.02	0.0
14.000	EXC SUELO 2	1.612	3.11	21.1				
16.000	EXC SUELO 2	1.582	3.19	24.3				
18.000	EXC SUELO 2	1.417	3.00	27.3	TERRAPLEN	0.007	0.01	0.0
20.000	EXC SUELO 2	1.326	2.74	30.0				
22.000	EXC SUELO 2	0.897	2.22	32.2				
24.000	EXC SUELO 2	0.619	1.52	33.8				
26.000	EXC SUELO 2	0.159	0.78	34.5	TERRAPLEN	0.185	0.18	0.2
28.000	EXC SUELO 2	0.000	0.16	34.7	TERRAPLEN	0.356	0.54	0.8
30.000	TERRAPLEN	0.803	1.16	1.9				
32.000	TERRAPLEN	1.227	2.03	4.0				
34.000	TERRAPLEN	2.291	3.52	7.5				
36.000	TERRAPLEN	2.737	5.03	12.5				
36.060	TERRAPLEN	2.751	0.16	12.7				
38.000	TERRAPLEN	3.042	5.62	18.3				
40.000	TERRAPLEN	3.101	6.14	24.4				
42.000	TERRAPLEN	3.500	6.60	31.0				
44.000	TERRAPLEN	3.785	7.29	38.3				
46.000	TERRAPLEN	4.470	8.26	46.6				
48.000	TERRAPLEN	7.795	12.27	58.8				
50.000	TERRAPLEN	9.530	17.32	76.2				
52.000	TERRAPLEN	11.002	20.53	96.7				
54.000	TERRAPLEN	12.727	23.73	120.4				
56.000	TERRAPLEN	13.702	26.43	146.9				
58.000	TERRAPLEN	14.524	28.23	175.1				
60.000	TERRAPLEN	15.044	29.57	204.7				
62.000	TERRAPLEN	15.731	30.77	235.4				
64.000	TERRAPLEN	16.659	32.39	267.8				
66.000	TERRAPLEN	17.628	34.29	302.1				
68.000	TERRAPLEN	18.649	36.28	338.4				
70.000	TERRAPLEN	19.975	38.62	377.0				
72.000	TERRAPLEN	22.028	42.00	419.0				

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
74.000	TERRAPLEN	23.608	45.64	464.6				
76.000	TERRAPLEN	25.598	49.21	513.9				
78.000	TERRAPLEN	27.844	53.44	567.3				
80.000	TERRAPLEN	26.163	54.01	621.3				
82.000	TERRAPLEN	29.884	56.05	677.3				
84.000	TERRAPLEN	29.142	59.03	736.4				
86.000	TERRAPLEN	28.756	57.90	794.3				
88.000	TERRAPLEN	28.375	57.13	851.4				
90.000	TERRAPLEN	27.683	56.06	907.5				
92.000	TERRAPLEN	25.974	53.66	961.1				
94.000	TERRAPLEN	25.642	51.62	1012.7				
96.000	TERRAPLEN	24.656	50.30	1063.0				
98.000	TERRAPLEN	23.303	47.96	1111.0				
100.000	TERRAPLEN	21.986	45.29	1156.3				
102.000	TERRAPLEN	20.491	42.48	1198.8				
104.000	TERRAPLEN	0.000	20.49	1219.2				
166.000	EXC SUELO 2	6.516	6.52	41.2				
168.000	EXC SUELO 2	6.005	12.52	53.7				
170.000	EXC SUELO 2	5.831	11.84	65.6				
172.000	EXC SUELO 2	5.574	11.40	77.0				
174.000	EXC SUELO 2	5.006	10.58	87.5				
176.000	EXC SUELO 2	4.741	9.75	97.3				
178.000	EXC SUELO 2	4.465	9.21	106.5				
180.000	EXC SUELO 2	3.417	7.88	114.4				
182.000	EXC SUELO 2	2.587	6.00	120.4				
184.000	EXC SUELO 2	2.209	4.80	125.2				
186.000	EXC SUELO 2	1.807	4.02	129.2				
188.000	EXC SUELO 2	1.710	3.52	132.7				
188.195	EXC SUELO 2	1.669	0.33	133.0				

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	133.0
TERRAPLEN	1219.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 13: REP. CAMINO EN P.K.2+120

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	1.323	0.00	0.0	SUELO ADECUADO	1.245	0.00	0.0
5.000	EXC SUELO 2	1.658	7.45	7.5	SUELO ADECUADO	1.381	6.57	6.6
10.000	EXC SUELO 2	1.824	8.70	16.2	SUELO ADECUADO	1.600	7.45	14.0
15.000	EXC SUELO 2	1.924	9.37	25.5	SUELO ADECUADO	1.708	8.27	22.3
20.000	EXC SUELO 2	1.438	8.41	33.9	SUELO ADECUADO	1.911	9.05	31.3
	TERRAPLEN	0.085	0.21	0.2				
25.000	EXC SUELO 2	1.282	6.80	40.7	SUELO ADECUADO	1.811	9.31	40.6
	TERRAPLEN	0.338	1.06	1.3				
25.057	EXC SUELO 2	1.288	0.07	40.8	SUELO ADECUADO	1.814	0.10	40.7
	TERRAPLEN	0.341	0.02	1.3				
30.000	EXC SUELO 2	1.378	6.59	47.4	SUELO ADECUADO	2.067	9.59	50.3
	TERRAPLEN	0.688	2.54	3.8				
30.000	EXC SUELO 2	1.378	0.00	47.4	SUELO ADECUADO	2.067	0.00	50.3
	TERRAPLEN	0.688	0.00	3.8				
35.000	EXC SUELO 2	0.616	4.99	52.4	SUELO ADECUADO	2.200	10.67	61.0
	TERRAPLEN	0.270	2.40	6.2				
40.000	EXC SUELO 2	0.000	1.54	53.9	SUELO ADECUADO	2.200	11.00	72.0
	TERRAPLEN	0.582	2.13	8.4				
45.000	EXC SUELO 2	0.085	0.21	54.1	SUELO ADECUADO	2.153	10.88	82.9
	TERRAPLEN	1.515	5.24	13.6				
50.000	EXC SUELO 2	0.002	0.22	54.3	SUELO ADECUADO	2.197	10.88	93.8
	TERRAPLEN	2.881	10.99	24.6				
55.000	SUELO ADECUADO	2.200	10.99	104.8	TERRAPLEN	2.231	12.78	37.4
60.000	SUELO ADECUADO	2.200	11.00	115.8	TERRAPLEN	1.669	9.75	47.1
65.000	SUELO ADECUADO	2.200	11.00	126.7	TERRAPLEN	2.087	9.39	56.5
70.000	EXC SUELO 2	0.020	0.05	54.4	SUELO ADECUADO	2.195	10.99	137.7
	TERRAPLEN	1.458	8.86	65.4				
71.376	EXC SUELO 2	0.047	0.05	54.4	SUELO ADECUADO	2.189	3.02	140.8
	TERRAPLEN	1.373	1.95	67.3				
75.000	EXC SUELO 2	0.046	0.17	54.6	SUELO ADECUADO	2.183	7.92	148.7
	TERRAPLEN	1.694	5.56	72.9				
77.500	EXC SUELO 2	0.000	0.06	54.7	SUELO ADECUADO	0.000	2.73	151.4
	TERRAPLEN	0.000	2.12	75.0				
117.500	EXC SUELO 2	0.975	1.22	55.9	SUELO ADECUADO	2.179	2.72	154.1
120.000	EXC SUELO 2	1.078	2.57	58.5	SUELO ADECUADO	2.177	5.44	159.6
123.182	EXC SUELO 2	1.081	3.43	61.9	SUELO ADECUADO	2.175	6.92	166.5
125.000	EXC SUELO 2	1.101	1.98	63.9	SUELO ADECUADO	2.173	3.95	170.4
130.000	EXC SUELO 2	1.105	5.52	69.4	SUELO ADECUADO	2.144	10.79	181.2

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
135.000	EXC SUELO 2	2.559	9.16	78.5	SUELO ADECUADO	1.983	10.32	191.6
140.000	EXC SUELO 2	0.792	8.38	86.9	SUELO ADECUADO	2.115	10.25	201.8
	TERRAPLEN	0.012	0.03	75.0				
145.000	EXC SUELO 2	0.850	4.11	91.0	SUELO ADECUADO	2.123	10.59	212.4
	TERRAPLEN	0.004	0.04	75.1				
150.000	EXC SUELO 2	1.599	6.12	97.2	SUELO ADECUADO	2.180	10.76	223.2
	TERRAPLEN	0.002	0.01	75.1				
154.088	EXC SUELO 2	1.864	7.08	104.2	SUELO ADECUADO	2.155	8.86	232.0
155.000	EXC SUELO 2	1.941	1.74	106.0	SUELO ADECUADO	2.135	1.96	234.0
160.000	EXC SUELO 2	2.065	10.01	116.0	SUELO ADECUADO	2.161	10.74	244.7
	TERRAPLEN	0.021	0.05	75.1				
165.000	EXC SUELO 2	2.452	11.29	127.3	SUELO ADECUADO	2.076	10.59	255.3
	TERRAPLEN	0.000	0.05	75.2				
170.000	EXC SUELO 2	2.809	13.15	140.4	SUELO ADECUADO	1.982	10.14	265.4
175.000	EXC SUELO 2	3.551	15.90	156.3	SUELO ADECUADO	2.061	10.11	275.6
180.000	EXC SUELO 2	3.696	18.12	174.4	SUELO ADECUADO	2.040	10.25	285.8
185.000	EXC SUELO 2	3.860	18.89	193.3	SUELO ADECUADO	2.010	10.13	295.9
190.000	EXC SUELO 2	3.979	19.60	212.9	SUELO ADECUADO	1.994	10.01	305.9
195.000	EXC SUELO 2	3.821	19.50	232.4	SUELO ADECUADO	1.977	9.93	315.9
200.000	EXC SUELO 2	3.911	19.33	251.8	SUELO ADECUADO	1.864	9.60	325.5
200.000	EXC SUELO 2	3.911	0.00	251.8	SUELO ADECUADO	1.864	0.00	325.5
205.000	EXC SUELO 2	3.504	18.54	270.3	SUELO ADECUADO	1.901	9.41	334.9
210.000	EXC SUELO 2	2.943	16.12	286.4	SUELO ADECUADO	1.767	9.17	344.1
215.000	EXC SUELO 2	2.348	13.23	299.6	SUELO ADECUADO	1.717	8.71	352.8
220.000	EXC SUELO 2	1.973	10.80	310.5	SUELO ADECUADO	1.572	8.22	361.0
222.519	EXC SUELO 2	1.636	4.55	315.0	SUELO ADECUADO	1.480	3.84	364.8

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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	315.0
SUELO ADECUADO	364.8
TERRAPLEN	75.2

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 3	0.910	0.00	0.0	SUELO ADECUADO	1.279	0.00	0.0
	VEGETAL	2.005	0.00	0.0	TERRAPLEN	0.079	0.00	0.0
2.000	EXC SUELO 3	0.766	1.68	1.7	SUELO ADECUADO	1.317	2.60	2.6
	VEGETAL	1.978	3.98	4.0	TERRAPLEN	0.069	0.15	0.1
4.000	EXC SUELO 3	0.867	1.63	3.3	SUELO ADECUADO	1.352	2.67	5.3
	VEGETAL	2.065	4.04	8.0	TERRAPLEN	0.074	0.14	0.3
6.000	EXC SUELO 3	0.739	1.61	4.9	SUELO ADECUADO	1.282	2.63	7.9
	VEGETAL	1.713	3.78	11.8	TERRAPLEN	0.003	0.08	0.4
8.000	EXC SUELO 3	0.838	1.58	6.5	SUELO ADECUADO	1.304	2.59	10.5
	VEGETAL	1.742	3.46	15.3	TERRAPLEN	0.003	0.01	0.4
10.000	EXC SUELO 3	1.105	1.94	8.4	SUELO ADECUADO	1.481	2.78	13.3
	VEGETAL	2.231	3.97	19.2	TERRAPLEN	0.073	0.08	0.5
12.000	EXC SUELO 3	0.960	2.07	10.5	SUELO ADECUADO	1.464	2.94	16.2
	VEGETAL	1.956	4.19	23.4	TERRAPLEN	0.004	0.08	0.5
14.000	EXC SUELO 3	1.140	2.10	12.6	SUELO ADECUADO	1.447	2.91	19.1
	VEGETAL	1.933	3.89	27.3	TERRAPLEN	0.003	0.01	0.5
16.000	EXC SUELO 3	1.427	2.57	15.2	SUELO ADECUADO	1.555	3.00	22.1
	VEGETAL	2.274	4.21	31.5	TERRAPLEN	0.054	0.06	0.6
18.000	EXC SUELO 3	1.414	2.84	18.0	SUELO ADECUADO	1.728	3.28	25.4
	VEGETAL	2.638	4.91	36.4	TERRAPLEN	0.118	0.17	0.8
20.000	EXC SUELO 3	1.801	3.21	21.2	SUELO ADECUADO	1.726	3.45	28.9
	VEGETAL	2.696	5.33	41.8	TERRAPLEN	0.090	0.21	1.0
22.000	EXC SUELO 3	2.229	4.03	25.3	SUELO ADECUADO	1.649	3.37	32.2
	VEGETAL	2.703	5.40	47.2	TERRAPLEN	0.101	0.19	1.2
24.000	EXC SUELO 3	2.995	5.22	30.5	SUELO ADECUADO	1.770	3.42	35.7
	VEGETAL	3.225	5.93	53.1	TERRAPLEN	0.146	0.25	1.4
26.000	EXC SUELO 3	2.331	5.33	35.8	SUELO ADECUADO	1.836	3.61	39.3
	VEGETAL	2.907	6.13	59.2	TERRAPLEN	0.225	0.37	1.8
27.865	EXC SUELO 3	2.155	4.18	40.0	SUELO ADECUADO	1.839	3.43	42.7
	VEGETAL	2.866	5.38	64.6	TERRAPLEN	0.219	0.41	2.2
28.000	EXC SUELO 3	2.149	0.29	40.3	SUELO ADECUADO	1.839	0.25	42.9
	VEGETAL	2.859	0.39	65.0	TERRAPLEN	0.213	0.03	2.2
30.000	EXC SUELO 3	2.076	4.23	44.5	SUELO ADECUADO	1.819	3.66	46.6
	VEGETAL	2.761	5.62	70.6	TERRAPLEN	0.145	0.36	2.6
32.000	EXC SUELO 3	2.002	4.08	48.6	SUELO ADECUADO	1.829	3.65	50.2
	VEGETAL	2.788	5.55	76.2	TERRAPLEN	0.181	0.33	2.9
34.000	EXC SUELO 3	1.975	3.98	52.6	SUELO ADECUADO	1.841	3.67	53.9
	VEGETAL	4.106	6.89	83.1	TERRAPLEN	1.837	2.02	4.9

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
36.000	EXC SUELO 3	2.132	4.11	56.7	SUELO ADECUADO	1.841	3.68	57.6
	VEGETAL	4.214	8.32	91.4	TERRAPLEN	2.299	4.14	9.1
38.000	EXC SUELO 3	2.305	4.44	61.1	SUELO ADECUADO	1.841	3.68	61.3
	VEGETAL	4.302	8.52	99.9	TERRAPLEN	2.558	4.86	13.9
40.000	EXC SUELO 3	1.773	4.08	65.2	SUELO ADECUADO	1.841	3.68	65.0
	VEGETAL	4.308	8.61	108.5	TERRAPLEN	2.791	5.35	19.3
42.000	EXC SUELO 3	1.351	3.12	68.3	SUELO ADECUADO	1.722	3.56	68.5
	VEGETAL	4.172	8.48	117.0	TERRAPLEN	3.251	6.04	25.3
44.000	EXC SUELO 3	1.151	2.50	70.8	SUELO ADECUADO	1.712	3.43	72.0
	VEGETAL	4.406	8.58	125.6	TERRAPLEN	4.098	7.35	32.7
46.000	EXC SUELO 3	1.038	2.19	73.0	SUELO ADECUADO	1.712	3.42	75.4
	VEGETAL	4.602	9.01	134.6	TERRAPLEN	4.990	9.09	41.7
46.827	EXC SUELO 3	1.024	0.85	73.9	SUELO ADECUADO	1.712	1.42	76.8
	VEGETAL	4.611	3.81	138.4	TERRAPLEN	5.075	4.16	45.9
46.827	EXC SUELO 3	1.024	0.00	73.9	SUELO ADECUADO	1.503	0.00	76.8
	VEGETAL	2.006	0.00	138.4	TERRAPLEN	0.186	0.00	45.9
48.000	EXC SUELO 3	1.004	1.19	75.0	SUELO ADECUADO	1.503	1.76	78.6
	VEGETAL	2.006	2.35	140.7	TERRAPLEN	0.185	0.22	46.1
50.000	EXC SUELO 3	1.018	2.02	77.1	SUELO ADECUADO	1.517	3.02	81.6
	VEGETAL	2.025	4.03	144.8	TERRAPLEN	0.185	0.37	46.5
52.000	EXC SUELO 3	0.787	1.81	78.9	SUELO ADECUADO	1.536	3.05	84.6
	VEGETAL	2.051	4.08	148.8	TERRAPLEN	0.346	0.53	47.0
54.000	EXC SUELO 3	0.684	1.47	80.3	SUELO ADECUADO	1.553	3.09	87.7
	VEGETAL	2.072	4.12	153.0	TERRAPLEN	0.312	0.66	47.7
56.000	EXC SUELO 3	0.660	1.34	81.7	SUELO ADECUADO	1.560	3.11	90.8
	VEGETAL	2.082	4.15	157.1	TERRAPLEN	0.196	0.51	48.2
56.766	EXC SUELO 3	0.630	0.49	82.2	SUELO ADECUADO	1.554	1.19	92.0
	VEGETAL	2.074	1.59	158.7	TERRAPLEN	0.226	0.16	48.4
57.711	EXC SUELO 3	0.617	0.59	82.8	SUELO ADECUADO	1.546	1.46	93.5
	VEGETAL	2.063	1.95	160.7	TERRAPLEN	0.289	0.24	48.6
58.000	EXC SUELO 3	0.618	0.18	82.9	SUELO ADECUADO	1.543	0.45	93.9
	VEGETAL	2.059	0.60	161.3	TERRAPLEN	0.313	0.09	48.7
60.000	EXC SUELO 3	0.805	1.42	84.4	SUELO ADECUADO	1.518	3.06	97.0
	VEGETAL	2.026	4.08	165.3	TERRAPLEN	0.174	0.49	49.2
62.000	EXC SUELO 3	1.173	1.98	86.3	SUELO ADECUADO	1.632	3.15	100.1
	VEGETAL	2.438	4.46	169.8	TERRAPLEN	0.168	0.34	49.5
62.111	EXC SUELO 3	1.189	0.13	86.5	SUELO ADECUADO	1.632	0.18	100.3
	VEGETAL	2.441	0.27	170.1	TERRAPLEN	0.171	0.02	49.5

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
64.000	EXC SUELO 3	1.476	2.52	89.0	SUELO ADECUADO	1.632	3.08	103.4
	VEGETAL	2.489	4.66	174.7	TERRAPLEN	0.241	0.39	49.9
66.000	EXC SUELO 3	1.341	2.82	91.8	SUELO ADECUADO	1.632	3.26	106.7
	VEGETAL	2.446	4.94	179.7	TERRAPLEN	0.293	0.53	50.5
67.840	EXC SUELO 3	1.446	2.56	94.4	SUELO ADECUADO	1.632	3.00	109.7
	VEGETAL	2.442	4.50	184.2	TERRAPLEN	0.159	0.42	50.9
68.000	EXC SUELO 3	1.462	0.23	94.6	SUELO ADECUADO	1.632	0.26	109.9
	VEGETAL	2.443	0.39	184.6	TERRAPLEN	0.150	0.02	50.9
69.175	EXC SUELO 3	1.612	1.81	96.4	SUELO ADECUADO	1.632	1.92	111.9
	VEGETAL	2.449	2.87	187.4	TERRAPLEN	0.112	0.15	51.1
69.175	EXC SUELO 3	1.612	0.00	96.4	SUELO ADECUADO	1.841	0.00	111.9
	VEGETAL	4.403	0.00	187.4	TERRAPLEN	2.928	0.00	51.1
70.000	EXC SUELO 3	1.729	1.38	97.8	SUELO ADECUADO	1.841	1.52	113.4
	VEGETAL	4.130	3.52	190.9	TERRAPLEN	2.365	2.18	53.2
72.000	EXC SUELO 3	1.724	3.45	101.2	SUELO ADECUADO	1.841	3.68	117.1
	VEGETAL	2.903	7.03	198.0	TERRAPLEN	0.434	2.80	56.0
74.000	EXC SUELO 3	2.365	4.09	105.3	SUELO ADECUADO	1.718	3.56	120.6
	VEGETAL	3.719	6.62	204.6	TERRAPLEN	0.579	1.01	57.0
76.000	EXC SUELO 3	3.665	6.03	111.4	SUELO ADECUADO	1.770	3.49	124.1
	VEGETAL	4.236	7.96	212.6	TERRAPLEN	0.221	0.80	57.8
78.000	EXC SUELO 3	5.800	9.47	120.8	SUELO ADECUADO	1.770	3.54	127.6
	VEGETAL	4.545	8.78	221.3	TERRAPLEN	0.213	0.43	58.3
80.000	EXC SUELO 3	8.518	14.32	135.1	SUELO ADECUADO	1.770	3.54	131.2
	VEGETAL	4.672	9.22	230.6	TERRAPLEN	0.184	0.40	58.7
80.750	EXC SUELO 3	9.781	6.86	142.0	SUELO ADECUADO	1.770	1.33	132.5
	VEGETAL	4.772	3.54	234.1	TERRAPLEN	0.186	0.14	58.8
82.000	EXC SUELO 3	12.383	13.85	155.9	SUELO ADECUADO	1.770	2.21	134.7
	VEGETAL	4.999	6.11	240.2	TERRAPLEN	0.191	0.24	59.1
84.000	EXC SUELO 3	17.177	29.56	185.4	SUELO ADECUADO	1.770	3.54	138.3
	VEGETAL	5.421	10.42	250.6	TERRAPLEN	0.183	0.37	59.4
84.843	EXC ROCA 1	0.007	0.00	0.0	EXC SUELO 3	19.286	15.37	200.8
	SUELO ADECUADO	1.770	1.49	139.8	VEGETAL	5.558	4.63	255.3
	TERRAPLEN	0.176	0.15	59.6				
86.000	EXC ROCA 1	0.212	0.13	0.1	EXC SUELO 3	21.728	23.73	224.5
	SUELO ADECUADO	1.770	2.05	141.8	VEGETAL	5.710	6.52	261.8
	TERRAPLEN	0.176	0.20	59.8				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
88.000	EXC ROCA 1	0.878	1.09	1.2	EXC SUELO 3	25.249	46.98	271.5
	SUELO ADECUADO	1.770	3.54	145.3	VEGETAL	5.945	11.65	273.4
	TERRAPLEN	0.175	0.35	60.1				
90.000	EXC ROCA 1	1.545	2.42	3.6	EXC SUELO 3	28.039	53.29	324.8
	SUELO ADECUADO	1.770	3.54	148.9	VEGETAL	6.084	12.03	285.5
	TERRAPLEN	0.172	0.35	60.5				
92.000	EXC ROCA 1	2.128	3.67	7.3	EXC SUELO 3	30.006	58.04	382.8
	SUELO ADECUADO	1.770	3.54	152.4	VEGETAL	6.145	12.23	297.7
	TERRAPLEN	0.171	0.34	60.8				
94.000	EXC ROCA 1	2.444	4.57	11.9	EXC SUELO 3	30.716	60.72	443.5
	SUELO ADECUADO	1.770	3.54	156.0	VEGETAL	6.196	12.34	310.0
	TERRAPLEN	0.174	0.34	61.2				
96.000	EXC ROCA 1	2.721	5.16	17.1	EXC SUELO 3	30.743	61.46	505.0
	SUELO ADECUADO	1.770	3.54	159.5	VEGETAL	6.242	12.44	322.5
	TERRAPLEN	0.176	0.35	61.5				
98.000	EXC ROCA 1	2.929	5.65	22.7	EXC SUELO 3	30.956	61.70	566.7
	SUELO ADECUADO	1.770	3.54	163.0	VEGETAL	6.327	12.57	335.0
	TERRAPLEN	0.174	0.35	61.9				
99.705	EXC ROCA 1	3.263	5.28	28.0	EXC SUELO 3	31.563	53.30	620.0
	SUELO ADECUADO	1.770	3.02	166.1	VEGETAL	6.432	10.88	345.9
	TERRAPLEN	0.172	0.29	62.2				
100.000	EXC ROCA 1	3.348	0.98	29.0	EXC SUELO 3	31.712	9.33	629.3
	SUELO ADECUADO	1.770	0.52	166.6	VEGETAL	6.450	1.90	347.8
	TERRAPLEN	0.172	0.05	62.2				
102.000	EXC ROCA 1	4.107	7.45	36.4	EXC SUELO 3	32.854	64.57	693.9
	SUELO ADECUADO	1.770	3.54	170.1	VEGETAL	6.575	13.03	360.8
	TERRAPLEN	0.171	0.34	62.6				
104.000	EXC ROCA 1	4.514	8.62	45.0	EXC SUELO 3	34.248	67.10	761.0
	SUELO ADECUADO	1.770	3.54	173.7	VEGETAL	6.700	13.27	374.1
	TERRAPLEN	0.170	0.34	62.9				
106.000	EXC ROCA 1	4.826	9.34	54.4	EXC SUELO 3	35.652	69.90	830.9
	SUELO ADECUADO	1.770	3.54	177.2	VEGETAL	6.828	13.53	387.6
	TERRAPLEN	0.171	0.34	63.2				
108.000	EXC ROCA 1	4.888	9.71	64.1	EXC SUELO 3	38.432	74.08	905.0
	SUELO ADECUADO	1.770	3.54	180.7	VEGETAL	8.896	15.72	403.4
	TERRAPLEN	0.442	0.61	63.8				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
110.000	EXC ROCA 1	4.939	9.83	73.9	EXC SUELO 3	40.823	79.26	984.2
	SUELO ADECUADO	1.770	3.54	184.3	VEGETAL	9.095	17.99	421.4
	TERRAPLEN	0.185	0.63	64.5				
112.000	EXC ROCA 1	4.978	9.92	83.8	EXC SUELO 3	43.768	84.59	1068.8
	SUELO ADECUADO	1.770	3.54	187.8	VEGETAL	9.395	18.49	439.8
	TERRAPLEN	0.183	0.37	64.8				
114.000	EXC ROCA 1	5.018	10.00	93.8	EXC SUELO 3	46.716	90.48	1159.3
	SUELO ADECUADO	1.770	3.54	191.4	VEGETAL	9.618	19.01	458.9
	TERRAPLEN	0.172	0.35	65.2				
114.569	EXC ROCA 1	5.029	2.86	96.7	EXC SUELO 3	47.518	26.81	1186.1
	SUELO ADECUADO	1.770	1.01	192.4	VEGETAL	9.674	5.49	464.3
	TERRAPLEN	0.172	0.10	65.3				
116.000	EXC ROCA 1	5.029	7.20	103.9	EXC SUELO 3	49.294	69.27	1255.4
	SUELO ADECUADO	1.770	2.53	194.9	VEGETAL	9.856	13.97	478.3
	TERRAPLEN	0.174	0.25	65.5				
118.000	EXC ROCA 1	5.027	10.06	113.9	EXC SUELO 3	51.310	100.60	1356.0
	SUELO ADECUADO	1.770	3.54	198.4	VEGETAL	10.103	19.96	498.3
	TERRAPLEN	0.178	0.35	65.9				
119.923	EXC ROCA 1	5.030	9.67	123.6	EXC SUELO 3	52.803	100.11	1456.1
	SUELO ADECUADO	1.770	3.40	201.8	VEGETAL	10.295	19.61	517.9
	TERRAPLEN	0.178	0.34	66.2				
119.923	EXC ROCA 1	5.030	0.00	123.6	EXC SUELO 3	52.803	0.00	1456.1
	SUELO ADECUADO	1.770	0.00	201.8	VEGETAL	10.295	0.00	517.9
	TERRAPLEN	0.178	0.00	66.2				
120.000	EXC ROCA 1	5.031	0.39	124.0	EXC SUELO 3	52.874	4.07	1460.2
	SUELO ADECUADO	1.770	0.14	202.0	VEGETAL	10.302	0.79	518.7
	TERRAPLEN	0.178	0.01	66.2				
122.000	EXC ROCA 1	5.121	10.15	134.1	EXC SUELO 3	54.476	107.35	1567.5
	SUELO ADECUADO	1.770	3.54	205.5	VEGETAL	10.544	20.85	539.5
	TERRAPLEN	0.198	0.38	66.6				
124.000	EXC ROCA 1	5.189	10.31	144.5	EXC SUELO 3	56.050	110.53	1678.1
	SUELO ADECUADO	1.770	3.54	209.1	VEGETAL	10.851	21.40	560.9
	TERRAPLEN	0.200	0.40	67.0				
126.000	EXC ROCA 1	5.352	10.54	155.0	EXC SUELO 3	57.600	113.65	1791.7
	SUELO ADECUADO	1.770	3.54	212.6	VEGETAL	11.150	22.00	582.9
	TERRAPLEN	0.197	0.40	67.4				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
128.000	EXC ROCA 1	5.523	10.87	165.9	EXC SUELO 3	58.836	116.44	1908.1
	SUELO ADECUADO	1.770	3.54	216.1	VEGETAL	11.425	22.58	605.5
	TERRAPLEN	0.195	0.39	67.8				
130.000	EXC ROCA 1	5.696	11.22	177.1	EXC SUELO 3	59.779	118.62	2026.8
	SUELO ADECUADO	1.770	3.54	219.7	VEGETAL	11.612	23.04	628.5
	TERRAPLEN	0.184	0.38	68.2				
132.000	EXC ROCA 1	5.852	11.55	188.6	EXC SUELO 3	60.386	120.17	2146.9
	SUELO ADECUADO	1.770	3.54	223.2	VEGETAL	11.721	23.33	651.9
	TERRAPLEN	0.180	0.36	68.6				
134.000	EXC ROCA 1	6.010	11.86	200.5	EXC SUELO 3	60.858	121.24	2268.2
	SUELO ADECUADO	1.770	3.54	226.8	VEGETAL	11.815	23.54	675.4
	TERRAPLEN	0.187	0.37	68.9				
136.000	EXC ROCA 1	6.170	12.18	212.7	EXC SUELO 3	61.358	122.22	2390.4
	SUELO ADECUADO	1.770	3.54	230.3	VEGETAL	11.962	23.78	699.2
	TERRAPLEN	0.186	0.37	69.3				
138.000	EXC ROCA 1	6.332	12.50	225.2	EXC SUELO 3	61.807	123.17	2513.5
	SUELO ADECUADO	1.770	3.54	233.8	VEGETAL	12.093	24.05	723.2
	TERRAPLEN	0.225	0.41	69.7				
140.000	EXC ROCA 1	6.492	12.82	238.0	EXC SUELO 3	62.233	124.04	2637.6
	SUELO ADECUADO	1.770	3.54	237.4	VEGETAL	12.184	24.28	747.5
	TERRAPLEN	0.278	0.50	70.2				
142.000	EXC ROCA 1	6.638	13.13	251.1	EXC SUELO 3	62.651	124.88	2762.5
	SUELO ADECUADO	1.770	3.54	240.9	VEGETAL	12.212	24.40	771.9
	TERRAPLEN	0.278	0.56	70.8				
144.000	EXC ROCA 1	6.781	13.42	264.6	EXC SUELO 3	63.043	125.69	2888.2
	SUELO ADECUADO	1.770	3.54	244.5	VEGETAL	12.236	24.45	796.4
	TERRAPLEN	0.278	0.56	71.3				
146.000	EXC ROCA 1	6.930	13.71	278.3	EXC SUELO 3	63.436	126.48	3014.6
	SUELO ADECUADO	1.770	3.54	248.0	VEGETAL	12.260	24.50	820.8
	TERRAPLEN	0.278	0.56	71.9				
148.000	EXC ROCA 1	7.080	14.01	292.3	EXC SUELO 3	63.805	127.24	3141.9
	SUELO ADECUADO	1.770	3.54	251.5	VEGETAL	12.282	24.54	845.4
	TERRAPLEN	0.278	0.56	72.4				
150.000	EXC ROCA 1	7.226	14.31	306.6	EXC SUELO 3	64.147	127.95	3269.8
	SUELO ADECUADO	1.770	3.54	255.1	VEGETAL	12.304	24.59	870.0
	TERRAPLEN	0.278	0.56	73.0				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
152.000	EXC ROCA 1	7.355	14.58	321.2	EXC SUELO 3	64.476	128.62	3398.5
	SUELO ADECUADO	1.770	3.54	258.6	VEGETAL	12.326	24.63	894.6
	TERRAPLEN	0.278	0.56	73.5				
154.000	EXC ROCA 1	7.485	14.84	336.0	EXC SUELO 3	64.798	129.27	3527.7
	SUELO ADECUADO	1.770	3.54	262.2	VEGETAL	12.347	24.67	919.3
	TERRAPLEN	0.278	0.56	74.1				
156.000	EXC ROCA 1	7.617	15.10	351.1	EXC SUELO 3	65.120	129.92	3657.7
	SUELO ADECUADO	1.770	3.54	265.7	VEGETAL	12.367	24.71	944.0
	TERRAPLEN	0.278	0.56	74.7				
158.000	EXC ROCA 1	7.751	15.37	366.5	EXC SUELO 3	65.419	130.54	3788.2
	SUELO ADECUADO	1.770	3.54	269.2	VEGETAL	12.385	24.75	968.7
	TERRAPLEN	0.278	0.56	75.2				
160.000	EXC ROCA 1	7.883	15.63	382.1	EXC SUELO 3	65.691	131.11	3919.3
	SUELO ADECUADO	1.770	3.54	272.8	VEGETAL	12.403	24.79	993.5
	TERRAPLEN	0.278	0.56	75.8				
162.000	EXC ROCA 1	7.998	15.88	398.0	EXC SUELO 3	65.954	131.65	4050.9
	SUELO ADECUADO	1.770	3.54	276.3	VEGETAL	12.420	24.82	1018.4
	TERRAPLEN	0.278	0.56	76.3				
164.000	EXC ROCA 1	8.110	16.11	414.1	EXC SUELO 3	66.216	132.17	4183.1
	SUELO ADECUADO	1.770	3.54	279.9	VEGETAL	12.537	24.96	1043.3
	TERRAPLEN	0.311	0.59	76.9				
166.000	EXC ROCA 1	8.222	16.33	430.4	EXC SUELO 3	66.646	132.86	4316.0
	SUELO ADECUADO	1.770	3.54	283.4	VEGETAL	12.678	25.21	1068.5
	TERRAPLEN	0.310	0.62	77.5				
168.000	EXC ROCA 1	8.336	16.56	447.0	EXC SUELO 3	67.296	133.94	4449.9
	SUELO ADECUADO	1.770	3.54	286.9	VEGETAL	12.816	25.49	1094.0
	TERRAPLEN	0.311	0.62	78.2				
170.000	EXC ROCA 1	8.448	16.78	463.8	EXC SUELO 3	68.155	135.45	4585.4
	SUELO ADECUADO	1.770	3.54	290.5	VEGETAL	12.953	25.77	1119.8
	TERRAPLEN	0.310	0.62	78.8				
172.000	EXC ROCA 1	8.544	16.99	480.8	EXC SUELO 3	69.223	137.38	4722.7
	SUELO ADECUADO	1.770	3.54	294.0	VEGETAL	12.994	25.95	1145.7
	TERRAPLEN	0.277	0.59	79.4				
174.000	EXC ROCA 1	8.626	17.17	497.9	EXC SUELO 3	70.350	139.57	4862.3
	SUELO ADECUADO	1.770	3.54	297.6	VEGETAL	13.006	26.00	1171.7
	TERRAPLEN	0.277	0.55	79.9				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
176.000	EXC ROCA 1	8.717	17.34	515.3	EXC SUELO 3	71.475	141.83	5004.1
	SUELO ADECUADO	1.770	3.54	301.1	VEGETAL	13.020	26.03	1197.8
	TERRAPLEN	0.278	0.55	80.5				
178.000	EXC ROCA 1	8.809	17.53	532.8	EXC SUELO 3	72.594	144.07	5148.2
	SUELO ADECUADO	1.770	3.54	304.6	VEGETAL	13.031	26.05	1223.8
	TERRAPLEN	0.277	0.55	81.0				
180.000	EXC ROCA 1	8.900	17.71	550.5	EXC SUELO 3	73.692	146.29	5294.5
	SUELO ADECUADO	1.770	3.54	308.2	VEGETAL	13.041	26.07	1249.9
	TERRAPLEN	0.277	0.55	81.6				
182.000	EXC ROCA 1	9.879	18.78	569.3	EXC SUELO 3	73.876	147.57	5442.1
	SUELO ADECUADO	1.770	3.54	311.7	VEGETAL	13.051	26.09	1276.0
	TERRAPLEN	0.277	0.55	82.1				
184.000	EXC ROCA 1	10.889	20.77	590.0	EXC SUELO 3	74.000	147.88	5589.9
	SUELO ADECUADO	1.770	3.54	315.3	VEGETAL	13.061	26.11	1302.1
	TERRAPLEN	0.277	0.55	82.7				
186.000	EXC ROCA 1	11.896	22.78	612.8	EXC SUELO 3	74.127	148.13	5738.1
	SUELO ADECUADO	1.770	3.54	318.8	VEGETAL	13.071	26.13	1328.2
	TERRAPLEN	0.277	0.55	83.2				
188.000	EXC ROCA 1	12.903	24.80	637.6	EXC SUELO 3	74.245	148.37	5886.4
	SUELO ADECUADO	1.770	3.54	322.3	VEGETAL	13.079	26.15	1354.4
	TERRAPLEN	0.277	0.55	83.8				
190.000	EXC ROCA 1	13.910	26.81	664.4	EXC SUELO 3	74.355	148.60	6035.0
	SUELO ADECUADO	1.770	3.54	325.9	VEGETAL	13.086	26.17	1380.5
	TERRAPLEN	0.277	0.55	84.4				
191.470	EXC ROCA 1	14.648	20.99	685.4	EXC SUELO 3	74.425	109.35	6144.4
	SUELO ADECUADO	1.770	2.60	328.5	VEGETAL	13.092	19.24	1399.8
	TERRAPLEN	0.277	0.41	84.8				
192.000	EXC ROCA 1	14.712	7.78	693.2	EXC SUELO 3	73.471	39.19	6183.6
	SUELO ADECUADO	1.770	0.94	329.4	VEGETAL	12.991	6.91	1406.7
	TERRAPLEN	0.275	0.15	84.9				
194.000	EXC ROCA 1	14.520	29.23	722.4	EXC SUELO 3	67.996	141.47	6325.1
	SUELO ADECUADO	1.770	3.54	333.0	VEGETAL	12.469	25.46	1432.2
	TERRAPLEN	0.266	0.54	85.5				
196.000	EXC ROCA 1	13.816	28.34	750.8	EXC SUELO 3	60.049	128.04	6453.1
	SUELO ADECUADO	1.770	3.54	336.5	VEGETAL	11.758	24.23	1456.4
	TERRAPLEN	0.256	0.52	86.0				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
198.000	EXC ROCA 1	12.938	26.75	777.5	EXC SUELO 3	50.332	110.38	6563.5
	SUELO ADECUADO	1.770	3.54	340.0	VEGETAL	10.909	22.67	1479.0
	TERRAPLEN	0.245	0.50	86.5				
200.000	EXC ROCA 1	12.047	24.98	802.5	EXC SUELO 3	38.376	88.71	6652.2
	SUELO ADECUADO	1.770	3.54	343.6	VEGETAL	7.221	18.13	1497.2
	TERRAPLEN	0.235	0.48	87.0				
202.000	EXC ROCA 1	9.917	21.96	824.5	EXC SUELO 3	35.091	73.47	6725.7
	SUELO ADECUADO	1.770	3.54	347.1	VEGETAL	6.406	13.63	1510.8
	TERRAPLEN	0.224	0.46	87.4				
204.000	EXC ROCA 1	5.960	15.88	840.4	EXC SUELO 3	34.015	69.11	6794.8
	SUELO ADECUADO	1.770	3.54	350.7	VEGETAL	5.854	12.26	1523.1
	TERRAPLEN	0.132	0.36	87.8				
206.000	EXC ROCA 1	1.957	7.92	848.3	EXC SUELO 3	29.996	64.01	6858.8
	SUELO ADECUADO	1.770	3.54	354.2	VEGETAL	5.853	11.71	1534.8
	TERRAPLEN	0.133	0.27	88.0				
208.000	EXC ROCA 1	0.051	2.01	850.3	EXC SUELO 3	20.960	50.96	6909.7
	SUELO ADECUADO	1.770	3.54	357.7	VEGETAL	5.273	11.13	1545.9
	TERRAPLEN	0.195	0.33	88.4				
210.000	EXC ROCA 1	0.000	0.05	850.3	EXC SUELO 3	11.263	32.22	6942.0
	SUELO ADECUADO	1.733	3.50	361.2	VEGETAL	4.131	9.40	1555.3
	TERRAPLEN	0.131	0.33	88.7				
212.000	EXC SUELO 3	3.896	15.16	6957.1	SUELO ADECUADO	1.834	3.57	364.8
	VEGETAL	4.292	8.42	1563.7	TERRAPLEN	2.500	2.63	91.3
214.000	EXC SUELO 3	0.026	3.92	6961.0	SUELO ADECUADO	1.728	3.56	368.4
	VEGETAL	3.377	7.67	1571.4	TERRAPLEN	7.573	10.07	101.4
216.000	EXC SUELO 3	0.000	0.03	6961.1	SUELO ADECUADO	1.905	3.63	372.0
	VEGETAL	3.700	7.08	1578.5	TERRAPLEN	12.564	20.14	121.5
218.000	SUELO ADECUADO	1.905	3.81	375.8	VEGETAL	4.231	7.93	1586.4
	TERRAPLEN	13.466	26.03	147.6				
220.000	SUELO ADECUADO	1.905	3.81	379.6	VEGETAL	5.164	9.39	1595.8
	TERRAPLEN	21.497	34.96	182.5				
222.000	SUELO ADECUADO	1.905	3.81	383.4	VEGETAL	6.886	12.05	1607.8
	TERRAPLEN	46.847	68.34	250.9				
224.000	SUELO ADECUADO	0.000	1.91	385.3	VEGETAL	0.000	6.89	1614.7
	TERRAPLEN	0.000	46.85	297.7				
296.649	SUELO ADECUADO	1.905	0.62	386.0	VEGETAL	4.588	1.49	1616.2
	TERRAPLEN	18.607	6.04	303.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
298.000	SUELO ADECUADO	1.898	2.57	388.5	VEGETAL	2.826	5.01	1621.2
	TERRAPLEN	3.382	14.85	318.6				
300.000	EXC SUELO 3	4.461	4.46	6965.5	SUELO ADECUADO	1.770	3.67	392.2
	VEGETAL	3.323	6.15	1627.4	TERRAPLEN	0.160	3.54	322.1
300.294	EXC SUELO 3	3.451	1.16	6966.7	SUELO ADECUADO	1.770	0.52	392.7
	VEGETAL	3.212	0.96	1628.3	TERRAPLEN	0.160	0.05	322.2
300.294	EXC SUELO 3	3.451	0.00	6966.7	SUELO ADECUADO	1.770	0.00	392.7
	VEGETAL	3.212	0.00	1628.3	TERRAPLEN	0.160	0.00	322.2
302.000	EXC SUELO 3	2.151	4.78	6971.5	SUELO ADECUADO	1.770	3.02	395.7
	VEGETAL	3.063	5.35	1633.7	TERRAPLEN	0.160	0.27	322.5
304.000	EXC SUELO 3	2.772	4.92	6976.4	SUELO ADECUADO	1.770	3.54	399.3
	VEGETAL	3.135	6.20	1639.9	TERRAPLEN	0.160	0.32	322.8
306.000	EXC SUELO 3	3.356	6.13	6982.5	SUELO ADECUADO	1.770	3.54	402.8
	VEGETAL	3.148	6.28	1646.2	TERRAPLEN	0.155	0.32	323.1
308.000	EXC SUELO 3	3.056	6.41	6988.9	SUELO ADECUADO	1.770	3.54	406.4
	VEGETAL	3.172	6.32	1652.5	TERRAPLEN	0.161	0.32	323.4
310.000	EXC SUELO 3	1.855	4.91	6993.8	SUELO ADECUADO	1.770	3.54	409.9
	VEGETAL	3.031	6.20	1658.7	TERRAPLEN	0.160	0.32	323.7
312.000	EXC SUELO 3	2.251	4.11	6997.9	SUELO ADECUADO	1.770	3.54	413.4
	VEGETAL	3.078	6.11	1664.8	TERRAPLEN	0.160	0.32	324.1
314.000	EXC SUELO 3	2.636	4.89	7002.8	SUELO ADECUADO	1.770	3.54	417.0
	VEGETAL	3.119	6.20	1671.0	TERRAPLEN	0.158	0.32	324.4
316.000	EXC SUELO 3	2.992	5.63	7008.5	SUELO ADECUADO	1.770	3.54	420.5
	VEGETAL	3.141	6.26	1677.3	TERRAPLEN	0.158	0.32	324.7
318.000	EXC SUELO 3	1.876	4.87	7013.3	SUELO ADECUADO	1.643	3.41	423.9
	VEGETAL	2.626	5.77	1683.0	TERRAPLEN	0.087	0.25	324.9
320.000	EXC SUELO 3	1.912	3.79	7017.1	SUELO ADECUADO	1.633	3.28	427.2
	VEGETAL	2.610	5.24	1688.3	TERRAPLEN	0.087	0.17	325.1
322.000	EXC SUELO 3	2.339	4.25	7021.4	SUELO ADECUADO	1.770	3.40	430.6
	VEGETAL	3.093	5.70	1694.0	TERRAPLEN	0.161	0.25	325.4
324.000	EXC SUELO 3	2.730	5.07	7026.4	SUELO ADECUADO	1.770	3.54	434.2
	VEGETAL	3.119	6.21	1700.2	TERRAPLEN	0.157	0.32	325.7
326.000	EXC SUELO 3	2.803	5.53	7032.0	SUELO ADECUADO	1.649	3.42	437.6
	VEGETAL	2.735	5.85	1706.0	TERRAPLEN	0.089	0.25	325.9
328.000	EXC SUELO 3	2.737	5.54	7037.5	SUELO ADECUADO	1.704	3.35	440.9
	VEGETAL	2.844	5.58	1711.6	TERRAPLEN	0.090	0.18	326.1
330.000	EXC SUELO 3	2.219	4.96	7042.5	SUELO ADECUADO	1.736	3.44	444.4
	VEGETAL	2.886	5.73	1717.3	TERRAPLEN	0.097	0.19	326.3

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
332.000	EXC SUELO 3	2.283	4.50	7047.0	SUELO ADECUADO	1.741	3.48	447.8
	VEGETAL	2.882	5.77	1723.1	TERRAPLEN	0.098	0.19	326.5
334.000	EXC SUELO 3	2.346	4.63	7051.6	SUELO ADECUADO	1.769	3.51	451.4
	VEGETAL	2.960	5.84	1729.0	TERRAPLEN	0.129	0.23	326.7
336.000	EXC SUELO 3	1.091	3.44	7055.0	SUELO ADECUADO	1.834	3.60	455.0
	VEGETAL	2.987	5.95	1734.9	TERRAPLEN	0.496	0.63	327.3
338.000	EXC SUELO 3	0.484	1.57	7056.6	SUELO ADECUADO	1.841	3.68	458.6
	VEGETAL	3.059	6.05	1740.9	TERRAPLEN	1.220	1.72	329.1
340.000	EXC SUELO 3	0.086	0.57	7057.2	SUELO ADECUADO	1.742	3.58	462.2
	VEGETAL	2.404	5.46	1746.4	TERRAPLEN	0.864	2.08	331.1
342.000	EXC SUELO 3	0.599	0.68	7057.9	SUELO ADECUADO	1.841	3.58	465.8
	VEGETAL	2.991	5.39	1751.8	TERRAPLEN	0.883	1.75	332.9
344.000	EXC SUELO 3	0.790	1.39	7059.3	SUELO ADECUADO	1.841	3.68	469.5
	VEGETAL	3.140	6.13	1757.9	TERRAPLEN	1.262	2.14	335.0
344.808	EXC SUELO 3	0.826	0.65	7059.9	SUELO ADECUADO	1.841	1.49	471.0
	VEGETAL	3.258	2.58	1760.5	TERRAPLEN	1.560	1.14	336.2
346.000	EXC SUELO 3	0.751	0.94	7060.8	SUELO ADECUADO	1.841	2.19	473.2
	VEGETAL	3.376	3.95	1764.5	TERRAPLEN	2.469	2.40	338.6
348.000	EXC SUELO 3	0.558	1.31	7062.2	SUELO ADECUADO	1.841	3.68	476.8
	VEGETAL	3.270	6.65	1771.1	TERRAPLEN	2.340	4.81	343.4
350.000	EXC SUELO 3	0.856	1.41	7063.6	SUELO ADECUADO	1.841	3.68	480.5
	VEGETAL	3.115	6.38	1777.5	TERRAPLEN	1.220	3.56	346.9
352.000	EXC SUELO 3	1.240	2.10	7065.7	SUELO ADECUADO	1.841	3.68	484.2
	VEGETAL	3.139	6.25	1783.8	TERRAPLEN	0.888	2.11	349.0
354.000	EXC SUELO 3	0.426	1.67	7067.3	SUELO ADECUADO	1.841	3.68	487.9
	VEGETAL	2.949	6.09	1789.8	TERRAPLEN	0.954	1.84	350.9
356.000	EXC SUELO 3	1.468	1.89	7069.2	SUELO ADECUADO	1.766	3.61	491.5
	VEGETAL	2.836	5.78	1795.6	TERRAPLEN	0.128	1.08	352.0
358.000	EXC SUELO 3	0.974	2.44	7071.7	SUELO ADECUADO	1.836	3.60	495.1
	VEGETAL	3.032	5.87	1801.5	TERRAPLEN	0.569	0.70	352.7
360.000	EXC SUELO 3	1.683	2.66	7074.3	SUELO ADECUADO	1.745	3.58	498.7
	VEGETAL	2.919	5.95	1807.5	TERRAPLEN	0.128	0.70	353.4
362.000	EXC SUELO 3	1.364	3.05	7077.4	SUELO ADECUADO	1.690	3.44	502.1
	VEGETAL	2.884	5.80	1813.3	TERRAPLEN	0.116	0.24	353.6
364.000	EXC SUELO 3	3.162	4.53	7081.9	SUELO ADECUADO	1.770	3.46	505.6
	VEGETAL	3.500	6.38	1819.6	TERRAPLEN	0.207	0.32	353.9
365.599	EXC SUELO 3	4.157	5.85	7087.7	SUELO ADECUADO	1.770	2.83	508.4
	VEGETAL	3.547	5.63	1825.3	TERRAPLEN	0.224	0.34	354.3

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
366.000	EXC SUELO 3	1.426	1.12	7088.9	SUELO ADECUADO	1.766	0.71	509.1
	VEGETAL	3.138	1.34	1826.6	TERRAPLEN	0.473	0.14	354.4
366.812	EXC SUELO 3	1.456	1.17	7090.0	SUELO ADECUADO	1.667	1.39	510.5
	VEGETAL	3.005	2.49	1829.1	TERRAPLEN	0.148	0.25	354.7
368.000	EXC SUELO 3	2.295	2.23	7092.3	SUELO ADECUADO	1.709	2.01	512.5
	VEGETAL	3.404	3.81	1832.9	TERRAPLEN	0.215	0.22	354.9
370.000	EXC SUELO 3	4.412	6.71	7099.0	SUELO ADECUADO	1.658	3.37	515.9
	VEGETAL	3.498	6.90	1839.8	TERRAPLEN	0.250	0.46	355.4
372.000	EXC SUELO 3	1.724	6.14	7105.1	SUELO ADECUADO	1.472	3.13	519.0
	VEGETAL	2.640	6.14	1846.0	TERRAPLEN	0.128	0.38	355.7
374.000	EXC SUELO 3	3.637	5.36	7110.5	SUELO ADECUADO	1.557	3.03	522.0
	VEGETAL	3.306	5.95	1851.9	TERRAPLEN	0.212	0.34	356.1
376.000	EXC SUELO 3	1.988	5.63	7116.1	SUELO ADECUADO	1.408	2.96	525.0
	VEGETAL	2.566	5.87	1857.8	TERRAPLEN	0.164	0.38	356.4
378.000	EXC SUELO 3	3.332	5.32	7121.4	SUELO ADECUADO	1.456	2.86	527.9
	VEGETAL	3.094	5.66	1863.4	TERRAPLEN	0.189	0.35	356.8
380.000	EXC SUELO 3	1.960	5.29	7126.7	SUELO ADECUADO	1.328	2.78	530.7
	VEGETAL	2.463	5.56	1869.0	TERRAPLEN	0.124	0.31	357.1
382.000	EXC SUELO 3	2.654	4.61	7131.3	SUELO ADECUADO	1.355	2.68	533.3
	VEGETAL	2.876	5.34	1874.3	TERRAPLEN	0.192	0.32	357.4
384.000	EXC SUELO 3	5.146	7.80	7139.1	SUELO ADECUADO	1.304	2.66	536.0
	VEGETAL	2.916	5.79	1880.1	TERRAPLEN	0.160	0.35	357.8
385.727	EXC SUELO 3	1.862	6.05	7145.2	SUELO ADECUADO	1.260	2.21	538.2
	VEGETAL	2.581	4.75	1884.9	TERRAPLEN	0.188	0.30	358.1
386.000	EXC SUELO 3	2.151	0.55	7145.7	SUELO ADECUADO	1.260	0.34	538.6
	VEGETAL	2.597	0.71	1885.6	TERRAPLEN	0.190	0.05	358.1
386.783	EXC SUELO 3	0.924	1.20	7146.9	SUELO ADECUADO	1.185	0.96	539.5
	VEGETAL	1.916	1.77	1887.3	TERRAPLEN	0.082	0.11	358.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 1	850.3
EXC SUELO 3	7146.9
SUELO ADECUADO	539.5
VEGETAL	1887.3
TERRAPLEN	358.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 3	0.871	0.00	0.0	VEGETAL	4.647	0.00	0.0
	TERRAPLEN	0.329	0.00	0.0				
2.000	EXC SUELO 3	1.078	1.95	1.9	VEGETAL	4.589	9.24	9.2
	TERRAPLEN	0.403	0.73	0.7				
4.000	EXC SUELO 3	0.551	1.63	3.6	VEGETAL	4.036	8.63	17.9
	TERRAPLEN	0.306	0.71	1.4				
6.000	EXC SUELO 3	0.451	1.00	4.6	VEGETAL	4.140	8.18	26.0
	TERRAPLEN	1.066	1.37	2.8				
8.000	EXC SUELO 3	0.796	1.25	5.8	VEGETAL	4.133	8.27	34.3
	TERRAPLEN	0.715	1.78	4.6				
10.000	EXC SUELO 3	0.335	1.13	7.0	VEGETAL	4.015	8.15	42.5
	TERRAPLEN	0.523	1.24	5.8				
10.000	EXC SUELO 3	0.706	0.00	7.0	MUROS	1.266	0.00	0.0
	VEGETAL	3.805	0.00	42.5	TERRAPLEN	0.263	0.00	5.8
11.083	EXC SUELO 3	0.630	0.72	7.7	MUROS	1.244	1.36	1.4
	VEGETAL	3.802	4.12	46.6	TERRAPLEN	0.238	0.27	6.1
12.000	EXC SUELO 3	0.518	0.53	8.2	MUROS	1.228	1.13	2.5
	VEGETAL	3.793	3.48	50.1	TERRAPLEN	0.267	0.23	6.3
14.000	EXC SUELO 3	0.361	0.88	9.1	MUROS	1.194	2.42	4.9
	VEGETAL	3.321	7.11	57.2	TERRAPLEN	0.632	0.90	7.2
16.000	EXC SUELO 3	0.384	0.75	9.8	MUROS	1.223	2.42	7.3
	VEGETAL	3.416	6.74	63.9	TERRAPLEN	1.246	1.88	9.1
18.000	EXC SUELO 3	0.402	0.79	10.6	MUROS	1.249	2.47	9.8
	VEGETAL	3.476	6.89	70.8	TERRAPLEN	1.983	3.23	12.3
20.000	EXC SUELO 3	0.354	0.76	11.4	MUROS	1.231	2.48	12.3
	VEGETAL	3.479	6.95	77.8	TERRAPLEN	2.290	4.27	16.6
22.000	EXC SUELO 3	0.354	0.71	12.1	MUROS	1.240	2.47	14.8
	VEGETAL	3.481	6.96	84.7	TERRAPLEN	2.356	4.65	21.3
24.000	EXC SUELO 3	0.356	0.71	12.8	MUROS	1.280	2.52	17.3
	VEGETAL	3.486	6.97	91.7	TERRAPLEN	2.518	4.87	26.1
26.000	EXC SUELO 3	0.389	0.75	13.5	MUROS	1.639	2.92	20.2
	VEGETAL	3.536	7.02	98.7	TERRAPLEN	3.549	6.07	32.2
28.000	EXC SUELO 3	18.460	18.85	32.4	MUROS	1.637	3.28	23.5
	VEGETAL	5.655	9.19	107.9	TERRAPLEN	3.023	6.57	38.8
30.000	EXC SUELO 3	19.666	38.13	70.5	MUROS	1.640	3.28	26.7
	VEGETAL	6.121	11.78	119.7	TERRAPLEN	3.650	6.67	45.5
32.000	EXC SUELO 3	0.356	20.02	90.5	MUROS	1.638	3.28	30.0
	VEGETAL	3.733	9.85	129.5	TERRAPLEN	6.879	10.53	56.0

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
34.000	EXC SUELO 3	0.360	0.72	91.2	MUROS	1.682	3.32	33.3
	VEGETAL	3.797	7.53	137.1	TERRAPLEN	7.959	14.84	70.8
36.000	EXC SUELO 3	0.362	0.72	92.0	MUROS	1.739	3.42	36.8
	VEGETAL	3.884	7.68	144.7	TERRAPLEN	8.694	16.65	87.5
38.000	EXC SUELO 3	0.362	0.72	92.7	MUROS	1.785	3.52	40.3
	VEGETAL	3.896	7.78	152.5	TERRAPLEN	9.054	17.75	105.2
40.000	EXC SUELO 3	0.362	0.72	93.4	MUROS	1.836	3.62	43.9
	VEGETAL	3.994	7.89	160.4	TERRAPLEN	10.483	19.54	124.8
42.000	EXC SUELO 3	0.359	0.72	94.1	MUROS	1.908	3.74	47.7
	VEGETAL	4.094	8.09	168.5	TERRAPLEN	12.152	22.63	147.4
44.000	EXC SUELO 3	0.359	0.72	94.9	MUROS	1.994	3.90	51.6
	VEGETAL	4.193	8.29	176.8	TERRAPLEN	13.870	26.02	173.4
46.000	EXC SUELO 3	0.358	0.72	95.6	MUROS	2.078	4.07	55.6
	VEGETAL	4.272	8.46	185.3	TERRAPLEN	15.373	29.24	202.7
48.000	EXC SUELO 3	0.368	0.73	96.3	MUROS	2.270	4.35	60.0
	VEGETAL	4.388	8.66	193.9	TERRAPLEN	17.143	32.52	235.2
50.000	EXC SUELO 3	0.356	0.72	97.0	MUROS	2.284	4.55	64.5
	VEGETAL	4.436	8.82	202.7	TERRAPLEN	18.367	35.51	270.7
50.602	EXC SUELO 3	0.356	0.21	97.2	MUROS	2.286	1.38	65.9
	VEGETAL	4.451	2.68	205.4	TERRAPLEN	18.717	11.16	281.8
52.000	EXC SUELO 3	0.355	0.50	97.7	MUROS	2.316	3.22	69.1
	VEGETAL	4.487	6.25	211.7	TERRAPLEN	19.571	26.76	308.6
54.000	EXC SUELO 3	0.351	0.71	98.4	MUROS	2.381	4.70	73.8
	VEGETAL	4.528	9.01	220.7	TERRAPLEN	21.001	40.57	349.2
56.000	EXC SUELO 3	0.359	0.71	99.2	MUROS	2.597	4.98	78.8
	VEGETAL	4.601	9.13	229.8	TERRAPLEN	23.016	44.02	393.2
58.000	EXC SUELO 3	0.358	0.72	99.9	MUROS	2.700	5.30	84.1
	VEGETAL	4.669	9.27	239.1	TERRAPLEN	24.759	47.77	441.0
60.000	EXC SUELO 3	0.364	0.72	100.6	MUROS	2.900	5.60	89.7
	VEGETAL	4.735	9.40	248.5	TERRAPLEN	26.790	51.55	492.5
62.000	EXC SUELO 3	0.363	0.73	101.3	MUROS	2.908	5.81	95.5
	VEGETAL	4.900	9.64	258.1	TERRAPLEN	28.928	55.72	548.2
64.000	EXC SUELO 3	0.361	0.72	102.0	MUROS	2.917	5.83	101.3
	VEGETAL	4.916	9.82	267.9	TERRAPLEN	29.532	58.46	606.7
66.000	EXC SUELO 3	0.360	0.72	102.8	MUROS	2.925	5.84	107.2
	VEGETAL	5.077	9.99	277.9	TERRAPLEN	31.372	60.90	667.6
68.000	EXC SUELO 3	0.358	0.72	103.5	MUROS	2.934	5.86	113.0
	VEGETAL	5.110	10.19	288.1	TERRAPLEN	32.005	63.38	731.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
70.000	EXC SUELO 3	0.388	0.75	104.2	MUROS	3.413	6.35	119.4
	VEGETAL	5.133	10.24	298.3	TERRAPLEN	34.136	66.14	797.1
72.000	EXC SUELO 3	0.382	0.77	105.0	MUROS	3.423	6.84	126.2
	VEGETAL	5.186	10.32	308.7	TERRAPLEN	34.912	69.05	866.2
74.000	EXC SUELO 3	0.377	0.76	105.8	MUROS	3.440	6.86	133.1
	VEGETAL	5.260	10.45	319.1	TERRAPLEN	36.784	71.70	937.9
76.000	EXC SUELO 3	0.372	0.75	106.5	MUROS	3.473	6.91	140.0
	VEGETAL	5.272	10.53	329.6	TERRAPLEN	37.454	74.24	1012.1
78.000	EXC SUELO 3	0.367	0.74	107.2	MUROS	3.510	6.98	147.0
	VEGETAL	5.360	10.63	340.3	TERRAPLEN	39.633	77.09	1089.2
80.000	EXC SUELO 3	0.367	0.73	108.0	MUROS	3.540	7.05	154.0
	VEGETAL	5.451	10.81	351.1	TERRAPLEN	41.522	81.15	1170.3
82.000	EXC SUELO 3	0.383	0.75	108.7	MUROS	4.009	7.55	161.6
	VEGETAL	5.546	11.00	362.1	TERRAPLEN	45.809	87.33	1257.7
84.000	EXC SUELO 3	0.405	0.79	109.5	MUROS	3.938	7.95	169.5
	VEGETAL	5.824	11.37	373.5	TERRAPLEN	47.959	93.77	1351.4
86.000	EXC SUELO 3	0.427	0.83	110.4	MUROS	3.927	7.87	177.4
	VEGETAL	5.830	11.65	385.1	TERRAPLEN	47.896	95.85	1447.3
88.000	EXC SUELO 3	0.410	0.84	111.2	MUROS	4.083	8.01	185.4
	VEGETAL	5.836	11.67	396.8	TERRAPLEN	48.599	96.49	1543.8
90.000	EXC SUELO 3	0.399	0.81	112.0	MUROS	4.172	8.25	193.6
	VEGETAL	5.842	11.68	408.5	TERRAPLEN	49.446	98.04	1641.8
92.000	EXC SUELO 3	0.454	0.85	112.8	MUROS	4.314	8.49	202.1
	VEGETAL	5.907	11.75	420.2	TERRAPLEN	55.834	105.28	1747.1
94.000	EXC SUELO 3	0.494	0.95	113.8	MUROS	4.575	8.89	211.0
	VEGETAL	5.997	11.90	432.1	TERRAPLEN	57.433	113.27	1860.4
96.000	EXC SUELO 3	0.460	0.95	114.8	MUROS	4.699	9.27	220.3
	VEGETAL	6.042	12.04	444.2	TERRAPLEN	58.503	115.94	1976.3
97.108	EXC SUELO 3	0.436	0.50	115.2	MUROS	4.741	5.23	225.5
	VEGETAL	6.067	6.71	450.9	TERRAPLEN	59.300	65.26	2041.6
98.000	EXC SUELO 3	0.423	0.38	115.6	MUROS	4.762	4.24	229.8
	VEGETAL	6.089	5.42	456.3	TERRAPLEN	59.981	53.20	2094.8
100.000	EXC SUELO 3	0.406	0.83	116.5	MUROS	4.793	9.56	239.3
	VEGETAL	6.473	12.56	468.8	TERRAPLEN	65.332	125.31	2220.1
102.000	EXC SUELO 3	0.000	0.41	116.9	MUROS	0.000	4.79	244.1
	VEGETAL	0.000	6.47	475.3	TERRAPLEN	0.000	65.33	2285.4
218.000	EXC SUELO 3	0.353	0.35	117.2	MUROS	5.965	5.97	250.1
	VEGETAL	8.963	8.96	484.3	TERRAPLEN	126.614	126.61	2412.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
220.000	EXC SUELO 3	0.348	0.70	117.9	MUROS	5.893	11.86	261.9
	VEGETAL	8.882	17.84	502.1	TERRAPLEN	125.410	252.02	2664.1
222.000	EXC SUELO 3	0.347	0.70	118.6	MUROS	5.796	11.69	273.6
	VEGETAL	8.811	17.69	519.8	TERRAPLEN	122.520	247.93	2912.0
224.000	EXC SUELO 3	0.346	0.69	119.3	MUROS	5.697	11.49	285.1
	VEGETAL	8.753	17.56	537.4	TERRAPLEN	119.998	242.52	3154.5
226.000	EXC SUELO 3	0.345	0.69	120.0	MUROS	5.603	11.30	296.4
	VEGETAL	8.698	17.45	554.8	TERRAPLEN	117.857	237.86	3392.4
228.000	EXC SUELO 3	0.346	0.69	120.7	MUROS	5.572	11.17	307.6
	VEGETAL	8.670	17.37	572.2	TERRAPLEN	116.613	234.47	3626.8
230.000	EXC SUELO 3	0.347	0.69	121.4	MUROS	5.540	11.11	318.7
	VEGETAL	8.628	17.30	589.5	TERRAPLEN	115.457	232.07	3858.9
232.000	EXC SUELO 3	0.349	0.70	122.1	MUROS	5.501	11.04	329.7
	VEGETAL	8.577	17.21	606.7	TERRAPLEN	114.326	229.78	4088.7
234.000	EXC SUELO 3	0.345	0.69	122.8	MUROS	5.504	11.01	340.7
	VEGETAL	8.534	17.11	623.8	TERRAPLEN	113.772	228.10	4316.8
236.000	EXC SUELO 3	0.346	0.69	123.5	MUROS	5.472	10.98	351.7
	VEGETAL	8.521	17.05	640.9	TERRAPLEN	112.098	225.87	4542.7
238.000	EXC SUELO 3	0.348	0.69	124.2	MUROS	5.438	10.91	362.6
	VEGETAL	8.487	17.01	657.9	TERRAPLEN	110.535	222.63	4765.3
240.000	EXC SUELO 3	0.351	0.70	124.9	MUROS	5.366	10.80	373.4
	VEGETAL	8.423	16.91	674.8	TERRAPLEN	107.627	218.16	4983.4
242.000	EXC SUELO 3	0.354	0.70	125.6	MUROS	5.284	10.65	384.1
	VEGETAL	8.307	16.73	691.5	TERRAPLEN	102.660	210.29	5193.7
244.000	EXC SUELO 3	0.357	0.71	126.3	MUROS	5.204	10.49	394.6
	VEGETAL	8.214	16.52	708.0	TERRAPLEN	97.493	200.15	5393.9
246.000	EXC SUELO 3	0.363	0.72	127.0	MUROS	5.105	10.31	404.9
	VEGETAL	8.129	16.34	724.4	TERRAPLEN	92.913	190.41	5584.3
248.000	EXC SUELO 3	0.373	0.74	127.7	MUROS	4.980	10.09	415.0
	VEGETAL	8.060	16.19	740.6	TERRAPLEN	89.094	182.01	5766.3
250.000	EXC SUELO 3	0.384	0.76	128.5	MUROS	4.851	9.83	424.8
	VEGETAL	8.022	16.08	756.7	TERRAPLEN	86.192	175.29	5941.6
252.000	EXC SUELO 3	0.392	0.78	129.3	MUROS	4.732	9.58	434.4
	VEGETAL	7.923	15.94	772.6	TERRAPLEN	86.606	172.80	6114.4
254.000	EXC SUELO 3	0.391	0.78	130.0	MUROS	4.662	9.39	443.8
	VEGETAL	7.803	15.73	788.3	TERRAPLEN	82.455	169.06	6283.4
256.000	EXC SUELO 3	0.354	0.74	130.8	MUROS	4.826	9.49	453.3
	VEGETAL	7.684	15.49	803.8	TERRAPLEN	87.320	169.78	6453.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
258.000	EXC SUELO 3	0.358	0.71	131.5	MUROS	4.757	9.58	462.9
	VEGETAL	7.570	15.25	819.1	TERRAPLEN	85.390	172.71	6625.9
260.000	EXC SUELO 3	0.347	0.71	132.2	MUROS	4.712	9.47	472.3
	VEGETAL	7.505	15.07	834.1	TERRAPLEN	84.547	169.94	6795.9
262.000	EXC SUELO 3	0.347	0.69	132.9	MUROS	4.637	9.35	481.7
	VEGETAL	7.426	14.93	849.1	TERRAPLEN	82.547	167.09	6963.0
264.000	EXC SUELO 3	0.346	0.69	133.6	MUROS	4.562	9.20	490.9
	VEGETAL	7.333	14.76	863.8	TERRAPLEN	80.243	162.79	7125.8
266.000	EXC SUELO 3	0.346	0.69	134.3	MUROS	4.483	9.04	499.9
	VEGETAL	7.225	14.56	878.4	TERRAPLEN	77.457	157.70	7283.5
268.000	EXC SUELO 3	0.349	0.69	135.0	MUROS	4.414	8.90	508.8
	VEGETAL	7.146	14.37	892.8	TERRAPLEN	74.735	152.19	7435.6
270.000	EXC SUELO 3	0.358	0.71	135.7	MUROS	4.420	8.83	517.6
	VEGETAL	7.061	14.21	907.0	TERRAPLEN	72.158	146.89	7582.5
271.256	EXC SUELO 3	0.358	0.45	136.1	MUROS	4.322	5.49	523.1
	VEGETAL	7.009	8.84	915.8	TERRAPLEN	70.325	89.48	7672.0
272.000	EXC SUELO 3	0.358	0.27	136.4	MUROS	4.264	3.19	526.3
	VEGETAL	6.969	5.20	921.0	TERRAPLEN	69.121	51.87	7723.9
274.000	EXC SUELO 3	0.358	0.72	137.1	MUROS	4.108	8.37	534.7
	VEGETAL	6.864	13.83	934.8	TERRAPLEN	66.092	135.21	7859.1
276.000	EXC SUELO 3	0.358	0.72	137.8	MUROS	3.952	8.06	542.8
	VEGETAL	6.769	13.63	948.5	TERRAPLEN	63.783	129.88	7989.0
278.000	EXC SUELO 3	0.356	0.71	138.6	MUROS	4.309	8.26	551.0
	VEGETAL	6.672	13.44	961.9	TERRAPLEN	65.517	129.30	8118.3
280.000	EXC SUELO 3	0.358	0.71	139.3	MUROS	4.240	8.55	559.6
	VEGETAL	6.572	13.24	975.1	TERRAPLEN	62.820	128.34	8246.6
282.000	EXC SUELO 3	0.358	0.72	140.0	MUROS	4.084	8.32	567.9
	VEGETAL	6.477	13.05	988.2	TERRAPLEN	59.905	122.73	8369.3
284.000	EXC SUELO 3	0.358	0.72	140.7	MUROS	3.928	8.01	575.9
	VEGETAL	6.385	12.86	1001.1	TERRAPLEN	57.607	117.51	8486.9
286.000	EXC SUELO 3	0.356	0.71	141.4	MUROS	4.254	8.18	584.1
	VEGETAL	6.413	12.80	1013.9	TERRAPLEN	62.494	120.10	8607.0
288.000	EXC SUELO 3	0.357	0.71	142.1	MUROS	4.137	8.39	592.5
	VEGETAL	6.276	12.69	1026.5	TERRAPLEN	59.135	121.63	8728.6
290.000	EXC SUELO 3	0.357	0.71	142.8	MUROS	4.019	8.16	600.6
	VEGETAL	6.169	12.44	1039.0	TERRAPLEN	55.878	115.01	8843.6
292.000	EXC SUELO 3	0.357	0.71	143.6	MUROS	3.897	7.92	608.6
	VEGETAL	6.143	12.31	1051.3	TERRAPLEN	53.724	109.60	8953.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
294.000	EXC SUELO 3	0.354	0.71	144.3	MUROS	3.879	7.78	616.3
	VEGETAL	6.134	12.28	1063.6	TERRAPLEN	54.115	107.84	9061.0
296.000	EXC SUELO 3	0.354	0.71	145.0	MUROS	3.795	7.67	624.0
	VEGETAL	6.023	12.16	1075.7	TERRAPLEN	51.674	105.79	9166.8
298.000	EXC SUELO 3	0.353	0.71	145.7	MUROS	3.648	7.44	631.4
	VEGETAL	5.922	11.95	1087.7	TERRAPLEN	48.674	100.35	9267.2
300.000	EXC SUELO 3	0.352	0.71	146.4	MUROS	3.492	7.14	638.6
	VEGETAL	5.838	11.76	1099.4	TERRAPLEN	45.843	94.52	9361.7
302.000	EXC SUELO 3	0.350	0.70	147.1	MUROS	3.336	6.83	645.4
	VEGETAL	5.759	11.60	1111.0	TERRAPLEN	43.132	88.98	9450.7
304.000	EXC SUELO 3	0.349	0.70	147.8	MUROS	3.227	6.56	652.0
	VEGETAL	5.639	11.40	1122.4	TERRAPLEN	40.949	84.08	9534.8
306.000	EXC SUELO 3	0.348	0.70	148.5	MUROS	3.118	6.35	658.3
	VEGETAL	5.483	11.12	1133.6	TERRAPLEN	38.473	79.42	9614.2
308.000	EXC SUELO 3	0.346	0.69	149.2	MUROS	3.017	6.14	664.5
	VEGETAL	5.428	10.91	1144.5	TERRAPLEN	36.582	75.05	9689.2
310.000	EXC SUELO 3	0.343	0.69	149.9	MUROS	2.934	5.95	670.4
	VEGETAL	5.332	10.76	1155.2	TERRAPLEN	34.702	71.28	9760.5
312.000	EXC SUELO 3	0.338	0.68	150.5	MUROS	2.877	5.81	676.2
	VEGETAL	5.249	10.58	1165.8	TERRAPLEN	32.861	67.56	9828.1
314.000	EXC SUELO 3	0.351	0.69	151.2	MUROS	2.829	5.71	681.9
	VEGETAL	5.161	10.41	1176.2	TERRAPLEN	30.844	63.71	9891.8
316.000	EXC SUELO 3	0.347	0.70	151.9	MUROS	2.591	5.42	687.3
	VEGETAL	5.071	10.23	1186.5	TERRAPLEN	27.552	58.40	9950.2
318.000	EXC SUELO 3	0.343	0.69	152.6	MUROS	2.541	5.13	692.5
	VEGETAL	5.194	10.27	1196.7	TERRAPLEN	28.384	55.94	10006.1
320.000	EXC SUELO 3	0.339	0.68	153.3	MUROS	2.532	5.07	697.5
	VEGETAL	5.078	10.27	1207.0	TERRAPLEN	28.815	57.20	10063.3
322.000	EXC SUELO 3	0.332	0.67	154.0	MUROS	2.588	5.12	702.7
	VEGETAL	4.951	10.03	1217.0	TERRAPLEN	28.377	57.19	10120.5
324.000	EXC SUELO 3	0.327	0.66	154.6	MUROS	2.647	5.23	707.9
	VEGETAL	4.827	9.78	1226.8	TERRAPLEN	26.445	54.82	10175.3
326.000	EXC SUELO 3	0.335	0.66	155.3	MUROS	2.608	5.25	713.2
	VEGETAL	4.708	9.54	1236.3	TERRAPLEN	24.091	50.54	10225.9
328.000	EXC SUELO 3	0.356	0.69	156.0	MUROS	2.523	5.13	718.3
	VEGETAL	4.592	9.30	1245.6	TERRAPLEN	21.853	45.94	10271.8
330.000	EXC SUELO 3	0.356	0.71	156.7	MUROS	2.412	4.93	723.2
	VEGETAL	4.481	9.07	1254.7	TERRAPLEN	19.744	41.60	10313.4

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
330.000	VEGETAL	5.596	0.00	1254.7	TERRAPLEN	25.116	0.00	10313.4
332.000	EXC SUELO 1	15.007	15.01	15.0	VEGETAL	5.457	11.05	1265.8
	TERRAPLEN	37.684	62.80	10376.2				
334.000	EXC SUELO 1	14.615	29.62	44.6	VEGETAL	5.314	10.77	1276.5
	TERRAPLEN	34.901	72.58	10448.8				
336.000	EXC SUELO 1	14.140	28.76	73.4	VEGETAL	5.142	10.46	1287.0
	TERRAPLEN	32.091	66.99	10515.8				
336.570	EXC SUELO 1	13.988	8.02	81.4	VEGETAL	5.087	2.92	1289.9
	TERRAPLEN	31.294	18.06	10533.8				
338.000	EXC SUELO 1	13.615	19.74	101.1	VEGETAL	4.951	7.18	1297.1
	TERRAPLEN	29.366	43.37	10577.2				
340.000	EXC SUELO 1	13.112	26.73	127.9	VEGETAL	4.768	9.72	1306.8
	TERRAPLEN	26.827	56.19	10633.4				
342.000	EXC SUELO 1	12.630	25.74	153.6	VEGETAL	4.593	9.36	1316.2
	TERRAPLEN	24.464	51.29	10684.7				
344.000	EXC SUELO 1	12.171	24.80	178.4	VEGETAL	4.426	9.02	1325.2
	TERRAPLEN	22.268	46.73	10731.4				
346.000	EXC SUELO 1	11.734	23.90	202.3	VEGETAL	4.267	8.69	1333.9
	TERRAPLEN	20.232	42.50	10773.9				
348.000	EXC SUELO 1	11.596	23.33	225.6	VEGETAL	4.217	8.48	1342.4
	TERRAPLEN	19.601	39.83	10813.8				
350.000	EXC SUELO 1	11.325	22.92	248.6	VEGETAL	4.118	8.33	1350.7
	TERRAPLEN	18.376	37.98	10851.7				
352.000	EXC SUELO 1	11.078	22.40	271.0	VEGETAL	4.028	8.15	1358.8
	TERRAPLEN	17.275	35.65	10887.4				
354.000	EXC SUELO 1	10.853	21.93	292.9	VEGETAL	3.947	7.97	1366.8
	TERRAPLEN	16.292	33.57	10921.0				
356.000	EXC SUELO 1	10.652	21.51	314.4	VEGETAL	3.873	7.82	1374.6
	TERRAPLEN	15.420	31.71	10952.7				
356.272	EXC SUELO 1	10.626	2.89	317.3	VEGETAL	3.864	1.05	1375.7
	TERRAPLEN	15.309	4.18	10956.9				
358.000	EXC SUELO 1	10.545	18.29	335.6	VEGETAL	3.835	6.65	1382.3
	TERRAPLEN	14.966	26.16	10983.0				
360.000	EXC SUELO 1	10.388	20.93	356.5	VEGETAL	3.777	7.61	1389.9
	TERRAPLEN	14.299	29.26	11012.3				
362.000	EXC SUELO 1	10.581	20.97	377.5	VEGETAL	3.848	7.62	1397.6
	TERRAPLEN	15.112	29.41	11041.7				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
364.000	EXC SUELO 1	10.462	21.04	398.5	VEGETAL	3.804	7.65	1405.2
	TERRAPLEN	14.600	29.71	11071.4				
366.000	EXC SUELO 1	10.422	20.88	419.4	VEGETAL	3.790	7.59	1412.8
	TERRAPLEN	14.425	29.03	11100.4				
368.000	EXC SUELO 1	10.290	20.71	440.1	VEGETAL	3.742	7.53	1420.3
	TERRAPLEN	13.866	28.29	11128.7				
370.000	EXC SUELO 1	10.193	20.48	460.6	VEGETAL	3.707	7.45	1427.8
	TERRAPLEN	13.456	27.32	11156.0				
372.000	EXC SUELO 1	10.097	20.29	480.9	VEGETAL	3.672	7.38	1435.2
	TERRAPLEN	13.057	26.51	11182.5				
374.000	EXC SUELO 1	10.052	20.15	501.1	VEGETAL	3.655	7.33	1442.5
	TERRAPLEN	12.866	25.92	11208.5				
375.958	EXC SUELO 1	9.908	19.54	520.6	VEGETAL	3.603	7.11	1449.6
	TERRAPLEN	12.284	24.62	11233.1				
376.000	EXC SUELO 1	9.905	0.42	521.0	VEGETAL	3.602	0.15	1449.8
	TERRAPLEN	12.273	0.52	11233.6				
378.000	EXC SUELO 1	9.326	19.23	540.2	VEGETAL	3.391	6.99	1456.8
	TERRAPLEN	11.354	23.63	11257.2				
380.000	EXC SUELO 1	9.981	19.31	559.5	VEGETAL	3.630	7.02	1463.8
	TERRAPLEN	12.322	23.68	11280.9				
381.776	EXC SUELO 1	9.938	17.69	577.2	VEGETAL	3.614	6.43	1470.2
	TERRAPLEN	11.662	21.30	11302.2				
381.778	EXC SUELO 1	9.938	0.02	577.3	VEGETAL	3.614	0.01	1470.2
	TERRAPLEN	11.661	0.02	11302.2				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 3	156.7
EXC SUELO 1	577.3
MUROS	723.2
VEGETAL	1470.2
TERRAPLEN	11302.2

CAMINOS PARALELOS

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC ROCA 1	1.250	0.00	0.0	SUELO ADECUADO	1.328	0.00	0.0
	VEGETAL	1.898	0.00	0.0	TERRAPLEN	0.323	0.00	0.0
5.000	EXC ROCA 1	0.000	3.12	3.1	SUELO ADECUADO	1.477	7.01	7.0
	VEGETAL	2.924	12.05	12.1	TERRAPLEN	8.527	22.13	22.1
10.000	SUELO ADECUADO	1.627	7.76	14.8	VEGETAL	3.650	16.43	28.5
	TERRAPLEN	19.944	71.18	93.3				
15.000	SUELO ADECUADO	1.773	8.50	23.3	VEGETAL	3.977	19.07	47.6
	TERRAPLEN	24.938	112.21	205.5				
20.000	SUELO ADECUADO	1.919	9.23	32.5	VEGETAL	4.178	20.39	67.9
	TERRAPLEN	26.916	129.63	335.1				
23.558	SUELO ADECUADO	1.917	6.82	39.3	VEGETAL	4.207	14.92	82.9
	TERRAPLEN	26.661	95.31	430.5				
25.000	SUELO ADECUADO	1.916	2.76	42.1	VEGETAL	4.185	6.05	88.9
	TERRAPLEN	26.285	38.17	468.6				
29.947	SUELO ADECUADO	1.914	9.47	51.6	VEGETAL	4.081	20.45	109.4
	TERRAPLEN	24.421	125.42	594.1				
30.000	SUELO ADECUADO	1.913	0.10	51.7	VEGETAL	4.081	0.22	109.6
	TERRAPLEN	24.400	1.29	595.3				
35.000	SUELO ADECUADO	1.911	9.56	61.2	VEGETAL	4.092	20.43	130.0
	TERRAPLEN	21.571	114.93	710.3				
40.000	SUELO ADECUADO	1.909	9.55	70.8	VEGETAL	3.683	19.44	149.4
	TERRAPLEN	17.184	96.89	807.2				
45.000	SUELO ADECUADO	1.908	9.54	80.3	VEGETAL	3.245	17.32	166.8
	TERRAPLEN	12.818	75.01	882.2				
50.000	SUELO ADECUADO	1.882	9.47	89.8	VEGETAL	3.148	15.98	182.7
	TERRAPLEN	9.345	55.41	937.6				
55.000	EXC ROCA 1	0.697	1.74	4.9	SUELO ADECUADO	1.909	9.48	99.3
	VEGETAL	3.594	16.85	199.6	TERRAPLEN	6.873	40.54	978.1
60.000	EXC ROCA 1	2.563	8.15	13.0	SUELO ADECUADO	1.909	9.55	108.8
	VEGETAL	3.542	17.84	217.4	TERRAPLEN	3.237	25.27	1003.4
61.157	EXC ROCA 1	3.223	3.35	16.4	SUELO ADECUADO	1.909	2.21	111.0
	VEGETAL	3.506	4.08	221.5	TERRAPLEN	2.576	3.36	1006.8
65.000	EXC ROCA 1	5.364	16.50	32.9	SUELO ADECUADO	1.910	7.34	118.4
	VEGETAL	3.468	13.40	234.9	TERRAPLEN	1.566	7.96	1014.7
70.000	EXC ROCA 1	6.257	29.05	61.9	SUELO ADECUADO	1.910	9.55	127.9
	VEGETAL	3.593	17.65	252.6	TERRAPLEN	2.144	9.27	1024.0
75.000	EXC ROCA 1	5.257	28.79	90.7	SUELO ADECUADO	1.911	9.55	137.5
	VEGETAL	3.616	18.02	270.6	TERRAPLEN	2.733	12.19	1036.2

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
80.000	EXC ROCA 1	5.362	26.55	117.2	SUELO ADECUADO	1.910	9.55	147.0
	VEGETAL	3.806	18.56	289.1	TERRAPLEN	3.225	14.89	1051.1
85.000	EXC ROCA 1	8.400	34.40	151.7	SUELO ADECUADO	1.911	9.55	156.6
	VEGETAL	4.125	19.83	309.0	TERRAPLEN	2.910	15.34	1066.4
87.082	EXC ROCA 1	9.172	18.29	169.9	SUELO ADECUADO	1.910	3.98	160.5
	VEGETAL	4.207	8.67	317.6	TERRAPLEN	2.640	5.78	1072.2
90.000	EXC ROCA 1	8.969	26.47	196.4	SUELO ADECUADO	1.911	5.57	166.1
	VEGETAL	4.229	12.31	330.0	TERRAPLEN	2.648	7.71	1079.9
95.000	EXC ROCA 1	8.766	44.34	240.8	SUELO ADECUADO	1.911	9.55	175.7
	VEGETAL	3.899	20.32	350.3	TERRAPLEN	1.582	10.57	1090.5
100.000	EXC ROCA 1	6.489	38.14	278.9	SUELO ADECUADO	1.911	9.55	185.2
	VEGETAL	3.612	18.78	369.1	TERRAPLEN	1.518	7.75	1098.2
105.000	EXC ROCA 1	3.578	25.17	304.1	SUELO ADECUADO	1.911	9.55	194.8
	VEGETAL	3.304	17.29	386.3	TERRAPLEN	2.041	8.90	1107.1
110.000	EXC ROCA 1	1.453	12.58	316.6	SUELO ADECUADO	1.911	9.55	204.3
	VEGETAL	4.061	18.41	404.8	TERRAPLEN	8.398	26.10	1133.2
115.000	EXC ROCA 1	0.551	5.01	321.6	SUELO ADECUADO	1.910	9.55	213.9
	VEGETAL	4.193	20.63	425.4	TERRAPLEN	13.870	55.67	1188.9
120.000	EXC ROCA 1	0.479	2.58	324.2	SUELO ADECUADO	1.911	9.55	223.4
	VEGETAL	4.173	20.91	446.3	TERRAPLEN	15.773	74.11	1263.0
125.000	EXC ROCA 1	0.822	3.25	327.5	SUELO ADECUADO	1.911	9.55	233.0
	VEGETAL	4.061	20.58	466.9	TERRAPLEN	15.556	78.32	1341.3
125.090	EXC ROCA 1	0.836	0.07	327.5	SUELO ADECUADO	1.911	0.17	233.2
	VEGETAL	4.065	0.37	467.3	TERRAPLEN	15.533	1.40	1342.7
130.000	EXC ROCA 1	2.866	9.09	336.6	SUELO ADECUADO	1.911	9.38	242.5
	VEGETAL	4.190	20.27	487.5	TERRAPLEN	8.796	59.73	1402.4
135.000	EXC ROCA 1	7.899	26.91	363.5	SUELO ADECUADO	1.911	9.55	252.1
	VEGETAL	3.375	18.91	506.4	TERRAPLEN	1.120	24.79	1427.2
139.424	EXC ROCA 1	12.286	44.65	408.2	SUELO ADECUADO	1.915	8.46	260.6
	VEGETAL	3.357	14.89	521.3	TERRAPLEN	0.098	2.69	1429.9
139.428	EXC ROCA 1	12.290	0.05	408.2	SUELO ADECUADO	1.914	0.01	260.6
	VEGETAL	3.357	0.01	521.3	TERRAPLEN	0.098	0.00	1429.9
139.436	EXC ROCA 1	12.298	0.10	408.3	SUELO ADECUADO	1.915	0.02	260.6
	VEGETAL	3.358	0.03	521.4	TERRAPLEN	0.098	0.00	1429.9
140.000	EXC ROCA 1	12.877	7.10	415.4	SUELO ADECUADO	1.914	1.08	261.7
	VEGETAL	3.403	1.91	523.3	TERRAPLEN	0.097	0.05	1430.0
145.000	EXC ROCA 1	14.898	69.44	484.9	SUELO ADECUADO	1.914	9.57	271.2
	VEGETAL	3.575	17.44	540.7	TERRAPLEN	0.099	0.49	1430.5

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
150.000	EXC ROCA 1	13.306	70.51	555.4	SUELO ADECUADO	1.914	9.57	280.8
	VEGETAL	3.476	17.63	558.3	TERRAPLEN	0.098	0.49	1431.0
155.000	EXC ROCA 1	15.623	72.32	627.7	SUELO ADECUADO	1.914	9.57	290.4
	VEGETAL	3.590	17.67	576.0	TERRAPLEN	0.094	0.48	1431.4
160.000	EXC ROCA 1	24.147	99.42	727.1	SUELO ADECUADO	1.914	9.57	299.9
	VEGETAL	3.914	18.76	594.8	TERRAPLEN	0.092	0.47	1431.9
165.000	EXC ROCA 1	31.290	138.59	865.7	SUELO ADECUADO	1.915	9.57	309.5
	VEGETAL	4.271	20.46	615.2	TERRAPLEN	0.089	0.45	1432.4
170.000	EXC ROCA 1	33.523	162.03	1027.8	SUELO ADECUADO	1.914	9.57	319.1
	VEGETAL	4.473	21.86	637.1	TERRAPLEN	0.096	0.46	1432.8
175.000	EXC ROCA 1	24.682	145.51	1173.3	SUELO ADECUADO	1.914	9.57	328.7
	VEGETAL	4.289	21.91	659.0	TERRAPLEN	0.110	0.51	1433.3
180.000	EXC ROCA 1	15.298	99.95	1273.2	SUELO ADECUADO	1.887	9.50	338.2
	VEGETAL	3.714	20.01	679.0	TERRAPLEN	0.086	0.49	1433.8
182.564	EXC ROCA 1	9.849	32.24	1305.5	SUELO ADECUADO	1.911	4.87	343.0
	VEGETAL	4.226	10.18	689.2	TERRAPLEN	2.170	2.89	1436.7
185.000	EXC ROCA 1	6.229	19.58	1325.0	SUELO ADECUADO	1.911	4.65	347.7
	VEGETAL	4.614	10.77	700.0	TERRAPLEN	6.577	10.65	1447.4
190.000	EXC ROCA 1	3.218	23.62	1348.7	SUELO ADECUADO	1.911	9.55	357.2
	VEGETAL	5.118	24.33	724.3	TERRAPLEN	14.405	52.46	1499.8
195.000	EXC ROCA 1	3.150	15.92	1364.6	SUELO ADECUADO	1.910	9.55	366.8
	VEGETAL	5.313	26.08	750.4	TERRAPLEN	15.559	74.91	1574.7
200.000	EXC ROCA 1	3.963	17.78	1382.4	SUELO ADECUADO	1.911	9.55	376.3
	VEGETAL	4.973	25.72	776.1	TERRAPLEN	11.565	67.81	1642.6
205.000	EXC ROCA 1	6.290	25.63	1408.0	SUELO ADECUADO	1.911	9.55	385.9
	VEGETAL	4.235	23.02	799.1	TERRAPLEN	4.726	40.73	1683.3
210.000	EXC ROCA 1	13.179	48.67	1456.7	SUELO ADECUADO	1.914	9.56	395.5
	VEGETAL	3.533	19.42	818.5	TERRAPLEN	0.102	12.07	1695.3
210.000	EXC ROCA 1	13.013	0.00	1456.7	SUELO ADECUADO	1.712	0.00	395.5
	VEGETAL	3.123	0.00	818.5	TERRAPLEN	0.069	0.00	1695.3
215.000	EXC ROCA 1	0.000	32.53	1489.2	EXC SUELO 2	31.332	78.33	78.3
	SUELO ADECUADO	1.713	8.56	404.0	VEGETAL	0.000	7.81	826.3
	TERRAPLEN	0.000	0.17	1695.5				
215.562	EXC SUELO 2	33.320	18.17	96.5	SUELO ADECUADO	1.713	0.96	405.0
220.000	EXC SUELO 2	53.978	193.71	290.2	SUELO ADECUADO	1.712	7.60	412.6
224.000	EXC SUELO 2	72.478	252.91	543.1	SUELO ADECUADO	1.712	6.85	419.4
575.427	EXC SUELO 2	74.083	0.00	543.1	SUELO ADECUADO	1.713	0.00	419.4

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
580.000	EXC ROCA 1	45.255	103.48	1592.7	EXC SUELO 2	0.000	169.39	712.5
	SUELO ADECUADO	1.712	7.83	427.3	VEGETAL	3.620	8.28	834.6
	TERRAPLEN	0.046	0.10	1695.6				
585.000	EXC ROCA 1	25.241	176.24	1768.9	SUELO ADECUADO	1.712	8.56	435.8
	VEGETAL	3.174	16.99	851.6	TERRAPLEN	0.052	0.24	1695.9
587.500	EXC ROCA 1	16.802	52.55	1821.5	SUELO ADECUADO	1.712	4.28	440.1
	VEGETAL	2.889	7.58	859.2	TERRAPLEN	0.050	0.13	1696.0
590.000	EXC ROCA 1	9.595	33.00	1854.5	SUELO ADECUADO	1.712	4.28	444.4
	VEGETAL	2.654	6.93	866.1	TERRAPLEN	0.054	0.13	1696.1
591.357	EXC ROCA 1	6.624	11.00	1865.5	SUELO ADECUADO	1.714	2.32	446.7
	VEGETAL	2.553	3.53	869.6	TERRAPLEN	0.205	0.18	1696.3
591.357	EXC ROCA 1	6.624	0.00	1865.5	SUELO ADECUADO	1.911	0.00	446.7
	VEGETAL	2.850	0.00	869.6	TERRAPLEN	0.509	0.00	1696.3
595.000	EXC ROCA 1	2.613	16.83	1882.3	SUELO ADECUADO	1.910	6.96	453.7
	VEGETAL	3.062	10.77	880.4	TERRAPLEN	2.247	5.02	1701.3
600.000	EXC ROCA 1	0.743	8.39	1890.7	SUELO ADECUADO	1.910	9.55	463.2
	VEGETAL	3.431	16.23	896.6	TERRAPLEN	6.665	22.28	1723.6
605.000	EXC ROCA 1	0.193	2.34	1893.0	SUELO ADECUADO	1.911	9.55	472.8
	VEGETAL	3.446	17.19	913.8	TERRAPLEN	8.975	39.10	1762.7
610.000	EXC ROCA 1	0.147	0.85	1893.9	SUELO ADECUADO	1.910	9.55	482.3
	VEGETAL	3.531	17.44	931.3	TERRAPLEN	10.566	48.85	1811.6
615.000	EXC ROCA 1	0.000	0.37	1894.3	SUELO ADECUADO	1.892	9.51	491.8
	VEGETAL	3.616	17.87	949.1	TERRAPLEN	14.055	61.55	1873.1
620.000	SUELO ADECUADO	1.883	9.44	501.3	VEGETAL	3.620	18.09	967.2
	TERRAPLEN	10.684	61.85	1935.0				
625.000	SUELO ADECUADO	1.884	9.42	510.7	VEGETAL	2.414	15.08	982.3
	TERRAPLEN	4.948	39.08	1974.0				
630.000	EXC ROCA 1	0.162	0.41	1894.7	SUELO ADECUADO	1.910	9.49	520.2
	VEGETAL	2.553	12.42	994.7	TERRAPLEN	2.868	19.54	1993.6
632.636	EXC ROCA 1	0.258	0.55	1895.2	SUELO ADECUADO	1.910	5.04	525.2
	VEGETAL	2.471	6.62	1001.3	TERRAPLEN	1.741	6.08	1999.6
635.000	EXC ROCA 1	1.163	1.68	1896.9	SUELO ADECUADO	1.910	4.52	529.7
	VEGETAL	2.563	5.95	1007.3	TERRAPLEN	1.262	3.55	2003.2
640.000	EXC ROCA 1	3.825	12.47	1909.4	SUELO ADECUADO	1.910	9.55	539.3
	VEGETAL	2.825	13.47	1020.8	TERRAPLEN	0.866	5.32	2008.5
645.000	EXC ROCA 1	8.033	29.65	1939.0	SUELO ADECUADO	1.909	9.55	548.8
	VEGETAL	3.039	14.66	1035.4	TERRAPLEN	0.185	2.63	2011.1

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650.000	EXC ROCA 1	10.388	46.05	1985.1	SUELO ADECUADO	1.910	9.55	558.4
	VEGETAL	3.448	16.22	1051.6	TERRAPLEN	0.450	1.59	2012.7
655.000	EXC ROCA 1	6.314	41.75	2026.8	SUELO ADECUADO	1.910	9.55	567.9
	VEGETAL	3.454	17.25	1068.9	TERRAPLEN	1.426	4.69	2017.4
660.000	EXC ROCA 1	4.818	27.83	2054.6	SUELO ADECUADO	1.910	9.55	577.5
	VEGETAL	3.121	16.44	1085.3	TERRAPLEN	0.876	5.76	2023.2
665.000	EXC ROCA 1	4.889	24.27	2078.9	SUELO ADECUADO	1.910	9.55	587.0
	VEGETAL	2.862	14.96	1100.3	TERRAPLEN	0.356	3.08	2026.3
670.000	EXC ROCA 1	11.200	40.22	2119.1	SUELO ADECUADO	1.914	9.56	596.6
	VEGETAL	3.272	15.34	1115.6	TERRAPLEN	0.093	1.12	2027.4
675.000	EXC ROCA 1	18.755	74.89	2194.0	SUELO ADECUADO	1.914	9.57	606.2
	VEGETAL	4.102	18.44	1134.1	TERRAPLEN	0.123	0.54	2027.9
678.686	EXC ROCA 1	24.448	79.62	2273.6	SUELO ADECUADO	1.915	7.06	613.2
	VEGETAL	4.448	15.76	1149.8	TERRAPLEN	0.117	0.44	2028.4
680.000	EXC ROCA 1	25.718	32.96	2306.6	SUELO ADECUADO	1.914	2.52	615.7
	VEGETAL	4.469	5.86	1155.7	TERRAPLEN	0.114	0.15	2028.5
685.000	EXC ROCA 1	30.898	141.54	2448.1	SUELO ADECUADO	1.914	9.57	625.3
	VEGETAL	4.703	22.93	1178.6	TERRAPLEN	0.117	0.58	2029.1
690.000	EXC ROCA 1	41.507	181.01	2629.2	SUELO ADECUADO	1.914	9.57	634.9
	VEGETAL	5.119	24.56	1203.2	TERRAPLEN	0.105	0.56	2029.7
695.000	EXC ROCA 1	47.366	222.18	2851.3	SUELO ADECUADO	1.914	9.57	644.5
	VEGETAL	5.270	25.97	1229.1	TERRAPLEN	0.103	0.52	2030.2
700.000	EXC ROCA 1	52.759	250.31	3101.6	SUELO ADECUADO	1.914	9.57	654.0
	VEGETAL	5.520	26.98	1256.1	TERRAPLEN	0.100	0.51	2030.7
704.709	EXC ROCA 1	55.093	253.94	3355.6	SUELO ADECUADO	1.915	9.02	663.0
	VEGETAL	5.593	26.17	1282.3	TERRAPLEN	0.100	0.47	2031.2
705.000	EXC ROCA 1	55.093	16.03	3371.6	SUELO ADECUADO	1.914	0.56	663.6
	VEGETAL	5.595	1.63	1283.9	TERRAPLEN	0.100	0.03	2031.2
710.000	EXC ROCA 1	54.534	274.07	3645.7	SUELO ADECUADO	1.914	9.57	673.2
	VEGETAL	5.612	28.02	1311.9	TERRAPLEN	0.103	0.51	2031.7
715.000	EXC ROCA 1	53.352	269.71	3915.4	SUELO ADECUADO	1.914	9.57	682.7
	VEGETAL	5.630	28.11	1340.0	TERRAPLEN	0.112	0.54	2032.2
720.000	EXC ROCA 1	50.879	260.58	4176.0	SUELO ADECUADO	1.914	9.57	692.3
	VEGETAL	5.582	28.03	1368.1	TERRAPLEN	0.109	0.55	2032.8
722.672	EXC ROCA 1	49.530	134.15	4310.1	SUELO ADECUADO	1.915	5.12	697.4
	VEGETAL	5.682	15.05	1383.1	TERRAPLEN	0.113	0.30	2033.1
725.000	EXC ROCA 1	49.198	114.92	4425.0	SUELO ADECUADO	1.914	4.46	701.9
	VEGETAL	5.713	13.26	1396.4	TERRAPLEN	0.103	0.25	2033.3

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730.000	EXC ROCA 1	52.367	253.91	4679.0	SUELO ADECUADO	1.914	9.57	711.5
	VEGETAL	5.692	28.51	1424.9	TERRAPLEN	0.106	0.52	2033.8
735.000	EXC ROCA 1	53.373	264.35	4943.3	SUELO ADECUADO	1.914	9.57	721.0
	VEGETAL	5.643	28.34	1453.2	TERRAPLEN	0.106	0.53	2034.4
739.059	EXC ROCA 1	50.944	211.71	5155.0	SUELO ADECUADO	1.914	7.77	728.8
	VEGETAL	5.585	22.79	1476.0	TERRAPLEN	0.111	0.44	2034.8
740.000	EXC ROCA 1	50.781	47.86	5202.9	SUELO ADECUADO	1.914	1.80	730.6
	VEGETAL	5.587	5.26	1481.3	TERRAPLEN	0.114	0.11	2034.9
742.000	EXC ROCA 1	50.676	101.46	5304.3	SUELO ADECUADO	1.915	3.83	734.4
	VEGETAL	5.598	11.18	1492.5	TERRAPLEN	0.117	0.23	2035.2
745.000	EXC ROCA 1	50.757	152.15	5456.5	SUELO ADECUADO	1.914	5.74	740.2
	VEGETAL	5.703	16.95	1509.4	TERRAPLEN	0.128	0.37	2035.5
750.000	EXC ROCA 1	49.042	249.50	5706.0	SUELO ADECUADO	1.914	9.57	749.8
	VEGETAL	5.633	28.34	1537.7	TERRAPLEN	0.108	0.59	2036.1
755.000	EXC ROCA 1	41.783	227.06	5933.0	SUELO ADECUADO	1.914	9.57	759.3
	VEGETAL	5.282	27.29	1565.0	TERRAPLEN	0.105	0.53	2036.6
757.000	EXC ROCA 1	36.361	78.14	6011.2	SUELO ADECUADO	1.914	3.83	763.2
	VEGETAL	5.093	10.38	1575.4	TERRAPLEN	0.139	0.24	2036.9
760.000	EXC ROCA 1	27.303	95.50	6106.7	SUELO ADECUADO	1.915	5.74	768.9
	VEGETAL	4.379	14.21	1589.6	TERRAPLEN	0.113	0.38	2037.3
765.000	EXC ROCA 1	10.588	94.73	6201.4	SUELO ADECUADO	1.913	9.57	778.5
	VEGETAL	3.858	20.59	1610.2	TERRAPLEN	1.153	3.17	2040.4
770.000	EXC ROCA 1	0.827	28.54	6230.0	SUELO ADECUADO	1.915	9.57	788.0
	VEGETAL	4.753	21.53	1631.7	TERRAPLEN	14.205	38.40	2078.8
771.278	EXC ROCA 1	0.000	0.53	6230.5	SUELO ADECUADO	1.879	2.42	790.5
	VEGETAL	4.314	5.79	1637.5	TERRAPLEN	19.861	21.77	2100.6
775.000	SUELO ADECUADO	1.912	7.06	797.5	VEGETAL	6.366	19.88	1657.4
	TERRAPLEN	47.049	124.52	2225.1				
780.000	SUELO ADECUADO	1.914	9.57	807.1	VEGETAL	8.704	37.68	1695.1
	TERRAPLEN	85.869	332.29	2557.4				
780.310	SUELO ADECUADO	1.914	0.59	807.7	VEGETAL	8.726	2.70	1697.8
	TERRAPLEN	88.318	27.00	2584.4				
785.000	SUELO ADECUADO	1.916	8.98	816.7	VEGETAL	8.862	41.24	1739.0
	TERRAPLEN	102.038	446.39	3030.8				
786.385	SUELO ADECUADO	1.917	2.65	819.3	VEGETAL	8.645	12.12	1751.2
	TERRAPLEN	100.011	139.92	3170.7				
790.000	SUELO ADECUADO	1.918	6.93	826.2	VEGETAL	8.939	31.78	1782.9
	TERRAPLEN	91.218	345.65	3516.4				

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790.388	SUELO ADECUADO	1.918	0.74	827.0	VEGETAL	8.864	3.45	1786.4
	TERRAPLEN	89.218	35.00	3551.4				
790.388	SUELO ADECUADO	1.709	0.00	827.0	VEGETAL	7.957	0.00	1786.4
	TERRAPLEN	84.202	0.00	3551.4				
795.000	SUELO ADECUADO	1.709	7.88	834.9	VEGETAL	7.103	34.73	1821.1
	TERRAPLEN	63.175	339.85	3891.2				
799.243	SUELO ADECUADO	1.709	7.25	842.1	VEGETAL	5.049	25.78	1846.9
	TERRAPLEN	34.775	207.80	4099.0				
799.243	SUELO ADECUADO	1.500	0.00	842.1	VEGETAL	1.500	0.00	1846.9
	TERRAPLEN	11.531	0.00	4099.0				
800.000	SUELO ADECUADO	1.500	1.14	843.3	VEGETAL	1.500	1.14	1848.0
	TERRAPLEN	10.911	8.49	4107.5				
802.000	SUELO ADECUADO	0.757	2.26	845.5	VEGETAL	0.757	2.26	1850.3
	TERRAPLEN	5.497	16.41	4123.9				
803.043	SUELO ADECUADO	0.343	0.57	846.1	VEGETAL	0.343	0.57	1850.9
	TERRAPLEN	1.933	3.87	4127.8				
804.095	SUELO ADECUADO	0.162	0.27	846.4	VEGETAL	0.162	0.27	1851.1
	TERRAPLEN	0.541	1.30	4129.1				

* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *
* * * Cubicacion segun distancias compensadas * * *

PK	EJE	AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
800.000	14	IA	SUELO ADECUADO	11.61	VEGETAL	23.40
			TERRAPLEN	83.94		
800.000	14	DA	EXC SUELO 2	4.87	SUELO ADECUADO	10.05
			TERRAPLEN	50.33		

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 1	6230.5
EXC SUELO 2	717.4
SUELO ADECUADO	868.0
VEGETAL	1874.5
TERRAPLEN	4263.4

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 3	2.070	0.00	0.0	SUELO ADECUADO	2.230	0.00	0.0
	VEGETAL	3.408	0.00	0.0	TERRAPLEN	0.217	0.00	0.0
0.144	EXC SUELO 3	2.029	0.30	0.3	SUELO ADECUADO	2.213	0.32	0.3
	VEGETAL	3.379	0.49	0.5	TERRAPLEN	0.209	0.03	0.0
0.440	EXC SUELO 3	0.815	0.42	0.7	SUELO ADECUADO	2.165	0.65	1.0
	VEGETAL	3.162	0.97	1.5	TERRAPLEN	0.230	0.06	0.1
0.586	EXC SUELO 3	0.743	0.11	0.8	SUELO ADECUADO	2.140	0.31	1.3
	VEGETAL	3.118	0.46	1.9	TERRAPLEN	0.223	0.03	0.1
0.721	EXC SUELO 3	0.681	0.10	0.9	SUELO ADECUADO	2.123	0.29	1.6
	VEGETAL	3.086	0.42	2.3	TERRAPLEN	0.216	0.03	0.2
1.069	EXC SUELO 3	0.546	0.21	1.1	SUELO ADECUADO	2.079	0.73	2.3
	VEGETAL	3.008	1.06	3.4	TERRAPLEN	0.198	0.07	0.2
1.565	EXC SUELO 3	0.430	0.24	1.4	SUELO ADECUADO	1.905	0.99	3.3
	VEGETAL	2.544	1.38	4.8	TERRAPLEN	0.084	0.07	0.3
1.906	EXC SUELO 3	0.434	0.15	1.5	SUELO ADECUADO	1.889	0.65	3.9
	VEGETAL	2.523	0.86	5.6	TERRAPLEN	0.065	0.03	0.3
2.029	EXC SUELO 3	0.437	0.05	1.6	SUELO ADECUADO	1.883	0.23	4.2
	VEGETAL	2.515	0.31	5.9	TERRAPLEN	0.055	0.01	0.3
2.069	EXC SUELO 3	0.438	0.02	1.6	SUELO ADECUADO	1.881	0.08	4.2
	VEGETAL	2.512	0.10	6.0	TERRAPLEN	0.052	0.00	0.3
3.060	EXC SUELO 3	0.440	0.43	2.0	SUELO ADECUADO	1.848	1.85	6.1
	VEGETAL	2.468	2.47	8.5	TERRAPLEN	0.006	0.03	0.4
3.374	EXC SUELO 3	0.435	0.14	2.2	SUELO ADECUADO	1.840	0.58	6.7
	VEGETAL	2.457	0.77	9.3	TERRAPLEN	0.003	0.00	0.4
4.723	EXC SUELO 3	0.366	0.54	2.7	SUELO ADECUADO	1.819	2.47	9.1
	VEGETAL	2.429	3.30	12.6	TERRAPLEN	0.003	0.00	0.4
5.000	EXC SUELO 3	0.337	0.10	2.8	SUELO ADECUADO	1.817	0.50	9.6
	VEGETAL	2.427	0.67	13.3	TERRAPLEN	0.004	0.00	0.4
6.076	EXC SUELO 3	0.218	0.30	3.1	SUELO ADECUADO	1.789	1.94	11.6
	VEGETAL	2.389	2.59	15.8	TERRAPLEN	0.014	0.01	0.4
7.435	EXC SUELO 3	0.044	0.18	3.3	SUELO ADECUADO	1.757	2.41	14.0
	VEGETAL	2.346	3.22	19.1	TERRAPLEN	0.213	0.15	0.5
8.800	EXC SUELO 3	0.014	0.04	3.3	SUELO ADECUADO	1.746	2.39	16.4
	VEGETAL	2.332	3.19	22.3	TERRAPLEN	0.666	0.60	1.1
10.000	EXC SUELO 3	2.252	1.36	4.7	SUELO ADECUADO	1.846	2.15	18.5
	VEGETAL	3.447	3.47	25.7	TERRAPLEN	1.168	1.10	2.2
10.169	EXC SUELO 3	2.365	0.39	5.1	SUELO ADECUADO	1.847	0.31	18.8
	VEGETAL	3.443	0.58	26.3	TERRAPLEN	1.225	0.20	2.4

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
11.543	EXC SUELO 3	3.304	3.89	9.0	SUELO ADECUADO	1.858	2.55	21.4
	VEGETAL	3.467	4.75	31.1	TERRAPLEN	1.863	2.12	4.6
14.153	EXC SUELO 3	5.086	10.95	19.9	SUELO ADECUADO	1.828	4.81	26.2
	VEGETAL	3.402	8.96	40.0	TERRAPLEN	1.945	4.97	9.5
15.000	EXC SUELO 3	5.731	4.58	24.5	SUELO ADECUADO	1.827	1.55	27.8
	VEGETAL	3.456	2.90	42.9	TERRAPLEN	2.001	1.67	11.2
15.540	EXC SUELO 3	0.000	1.55	26.0	SUELO ADECUADO	1.847	0.99	28.7
	VEGETAL	2.741	1.67	44.6	TERRAPLEN	3.915	1.60	12.8
20.000	EXC SUELO 3	5.378	11.99	38.0	SUELO ADECUADO	1.759	8.04	36.8
	VEGETAL	3.303	13.48	58.1	TERRAPLEN	0.161	9.09	21.9
25.000	EXC SUELO 3	6.118	28.74	66.8	SUELO ADECUADO	1.759	8.79	45.6
	VEGETAL	3.368	16.68	74.7	TERRAPLEN	0.160	0.80	22.7
30.000	EXC SUELO 3	8.557	36.69	103.5	SUELO ADECUADO	1.759	8.79	54.4
	VEGETAL	3.563	17.33	92.1	TERRAPLEN	0.156	0.79	23.5
35.000	EXC SUELO 3	10.399	47.39	150.9	SUELO ADECUADO	1.759	8.80	63.2
	VEGETAL	3.786	18.37	110.5	TERRAPLEN	0.158	0.78	24.3
37.438	EXC SUELO 3	10.895	25.96	176.8	SUELO ADECUADO	1.759	4.29	67.5
	VEGETAL	3.806	9.25	119.7	TERRAPLEN	0.158	0.38	24.7
40.000	EXC SUELO 3	10.461	27.36	204.2	SUELO ADECUADO	1.759	4.51	72.0
	VEGETAL	3.801	9.74	129.4	TERRAPLEN	0.160	0.41	25.1
45.000	EXC SUELO 3	12.758	58.05	262.2	SUELO ADECUADO	1.759	8.80	80.8
	VEGETAL	3.937	19.34	148.8	TERRAPLEN	0.094	0.64	25.7
50.000	EXC SUELO 3	14.793	68.88	331.1	SUELO ADECUADO	1.759	8.79	89.6
	VEGETAL	4.067	20.01	168.8	TERRAPLEN	0.083	0.44	26.1
55.000	EXC SUELO 3	14.504	73.24	404.3	SUELO ADECUADO	1.759	8.80	98.3
	VEGETAL	4.045	20.28	189.1	TERRAPLEN	0.085	0.42	26.6
60.000	EXC SUELO 3	12.460	67.41	471.8	SUELO ADECUADO	1.759	8.79	107.1
	VEGETAL	3.939	19.96	209.0	TERRAPLEN	0.122	0.52	27.1
65.000	EXC SUELO 3	10.112	56.43	528.2	SUELO ADECUADO	1.759	8.79	115.9
	VEGETAL	3.767	19.26	228.3	TERRAPLEN	0.160	0.70	27.8
70.000	EXC SUELO 3	7.238	43.37	571.6	SUELO ADECUADO	1.759	8.79	124.7
	VEGETAL	3.481	18.12	246.4	TERRAPLEN	0.160	0.80	28.6
75.000	EXC SUELO 3	4.748	29.96	601.5	SUELO ADECUADO	1.759	8.79	133.5
	VEGETAL	3.234	16.79	263.2	TERRAPLEN	0.161	0.80	29.4
80.000	EXC SUELO 3	3.400	20.37	621.9	SUELO ADECUADO	1.759	8.79	142.3
	VEGETAL	3.078	15.78	279.0	TERRAPLEN	0.161	0.81	30.2
85.000	EXC SUELO 3	2.592	14.98	636.9	SUELO ADECUADO	1.759	8.79	151.1
	VEGETAL	2.986	15.16	294.2	TERRAPLEN	0.161	0.80	31.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
90.000	EXC SUELO 3	1.994	11.46	648.3	SUELO ADECUADO	1.672	8.58	159.7
	VEGETAL	2.647	14.08	308.2	TERRAPLEN	0.091	0.63	31.6
95.000	EXC SUELO 3	1.484	8.70	657.0	SUELO ADECUADO	1.739	8.53	168.2
	VEGETAL	2.716	13.41	321.6	TERRAPLEN	0.101	0.48	32.1
100.000	EXC SUELO 3	1.201	6.71	663.7	SUELO ADECUADO	1.790	8.82	177.0
	VEGETAL	2.789	13.76	335.4	TERRAPLEN	0.213	0.78	32.9
105.000	EXC SUELO 3	0.697	4.74	668.5	SUELO ADECUADO	1.837	9.07	186.1
	VEGETAL	2.959	14.37	349.8	TERRAPLEN	0.960	2.93	35.8
106.432	EXC SUELO 3	0.472	0.84	669.3	SUELO ADECUADO	1.837	2.63	188.7
	VEGETAL	2.986	4.26	354.0	TERRAPLEN	1.340	1.65	37.5
110.000	EXC SUELO 3	0.069	0.97	670.3	SUELO ADECUADO	1.728	6.36	195.1
	VEGETAL	2.767	10.26	364.3	TERRAPLEN	3.070	7.87	45.3
115.000	EXC SUELO 3	0.000	0.17	670.5	SUELO ADECUADO	1.894	9.05	204.2
	VEGETAL	2.995	14.40	378.7	TERRAPLEN	5.103	20.43	65.8
120.000	SUELO ADECUADO	1.897	9.48	213.6	VEGETAL	2.897	14.73	393.4
	TERRAPLEN	3.800	22.26	88.0				
125.000	SUELO ADECUADO	1.875	9.43	223.1	VEGETAL	2.766	14.16	407.6
	TERRAPLEN	2.927	16.82	104.8				
130.000	SUELO ADECUADO	1.869	9.36	232.4	VEGETAL	2.806	13.93	421.5
	TERRAPLEN	3.151	15.20	120.0				
135.000	SUELO ADECUADO	1.867	9.34	241.8	VEGETAL	2.831	14.09	435.6
	TERRAPLEN	3.456	16.52	136.5				
140.000	SUELO ADECUADO	1.846	9.28	251.0	VEGETAL	2.719	13.87	449.5
	TERRAPLEN	2.601	15.14	151.7				
145.000	SUELO ADECUADO	1.805	9.13	260.2	VEGETAL	2.552	13.18	462.7
	TERRAPLEN	1.611	10.53	162.2				
146.931	EXC SUELO 3	0.005	0.00	670.5	SUELO ADECUADO	1.781	3.46	263.6
	VEGETAL	2.435	4.81	467.5	TERRAPLEN	0.959	2.48	164.7
150.000	EXC SUELO 3	0.036	0.06	670.5	SUELO ADECUADO	1.758	5.43	269.1
	VEGETAL	2.395	7.41	474.9	TERRAPLEN	0.810	2.71	167.4
155.000	EXC SUELO 3	0.035	0.18	670.7	SUELO ADECUADO	1.745	8.76	277.8
	VEGETAL	2.348	11.86	486.7	TERRAPLEN	0.663	3.68	171.1
160.000	EXC SUELO 3	0.000	0.09	670.8	SUELO ADECUADO	1.831	8.94	286.8
	VEGETAL	2.544	12.23	499.0	TERRAPLEN	1.581	5.61	176.7
165.000	SUELO ADECUADO	1.801	9.08	295.8	VEGETAL	2.414	12.40	511.4
	TERRAPLEN	0.866	6.12	182.8				
170.000	SUELO ADECUADO	1.812	9.03	304.9	VEGETAL	2.439	12.13	523.5
	TERRAPLEN	1.259	5.31	188.1				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
175.000	EXC SUELO 3	0.668	1.67	672.5	SUELO ADECUADO	1.562	8.44	313.3
	VEGETAL	2.087	11.31	534.8	TERRAPLEN	0.003	3.16	191.3
180.000	EXC SUELO 3	0.154	2.06	674.5	SUELO ADECUADO	1.651	8.03	321.3
	VEGETAL	2.206	10.73	545.6	TERRAPLEN	0.004	0.02	191.3
185.000	EXC SUELO 3	0.000	0.39	674.9	SUELO ADECUADO	1.763	8.54	329.9
	VEGETAL	2.366	11.43	557.0	TERRAPLEN	0.811	2.04	193.3
190.000	SUELO ADECUADO	1.791	8.89	338.8	VEGETAL	2.433	12.00	569.0
	TERRAPLEN	0.955	4.41	197.8				
195.000	SUELO ADECUADO	1.796	8.97	347.7	VEGETAL	2.469	12.26	581.2
	TERRAPLEN	1.120	5.19	202.9				
198.405	EXC SUELO 3	0.039	0.07	675.0	SUELO ADECUADO	1.659	5.88	353.6
	VEGETAL	2.216	7.98	589.2	TERRAPLEN	0.202	2.25	205.2
200.000	EXC SUELO 3	0.921	0.77	675.7	SUELO ADECUADO	1.725	2.70	356.3
	VEGETAL	2.628	3.86	593.1	TERRAPLEN	0.092	0.23	205.4
205.000	EXC SUELO 3	3.454	10.94	686.7	SUELO ADECUADO	1.759	8.71	365.0
	VEGETAL	3.110	14.34	607.4	TERRAPLEN	0.163	0.64	206.1
210.000	EXC SUELO 3	4.590	20.11	706.8	SUELO ADECUADO	1.759	8.80	373.8
	VEGETAL	3.267	15.94	623.4	TERRAPLEN	0.167	0.83	206.9
215.000	EXC SUELO 3	4.940	23.83	730.6	SUELO ADECUADO	1.759	8.80	382.6
	VEGETAL	3.334	16.50	639.9	TERRAPLEN	0.172	0.85	207.7
220.000	EXC SUELO 3	4.216	22.89	753.5	SUELO ADECUADO	1.759	8.80	391.4
	VEGETAL	3.277	16.53	656.4	TERRAPLEN	0.177	0.87	208.6
225.000	EXC SUELO 3	2.322	16.35	769.9	SUELO ADECUADO	1.707	8.66	400.1
	VEGETAL	2.778	15.14	671.5	TERRAPLEN	0.095	0.68	209.3
230.000	EXC SUELO 3	0.668	7.48	777.3	SUELO ADECUADO	1.790	8.74	408.8
	VEGETAL	2.704	13.70	685.2	TERRAPLEN	0.261	0.89	210.2
233.177	EXC SUELO 3	0.089	1.20	778.5	SUELO ADECUADO	1.733	5.60	414.4
	VEGETAL	2.346	8.02	693.3	TERRAPLEN	0.598	1.36	211.5
235.000	EXC SUELO 3	0.015	0.10	778.6	SUELO ADECUADO	1.771	3.19	417.6
	VEGETAL	2.426	4.35	697.6	TERRAPLEN	0.975	1.43	213.0
240.000	EXC SUELO 3	0.000	0.04	778.7	SUELO ADECUADO	1.873	9.11	426.7
	VEGETAL	2.668	12.73	710.3	TERRAPLEN	2.334	8.27	221.2
245.000	SUELO ADECUADO	1.876	9.37	436.1	VEGETAL	2.618	13.21	723.6
	TERRAPLEN	2.040	10.93	232.2				
250.000	SUELO ADECUADO	1.778	9.13	445.2	VEGETAL	2.379	12.49	736.0
	TERRAPLEN	0.680	6.80	239.0				
255.000	EXC SUELO 3	0.066	0.17	778.8	SUELO ADECUADO	1.679	8.64	453.9
	VEGETAL	2.243	11.55	747.6	TERRAPLEN	0.073	1.88	240.9

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
260.000	EXC SUELO 3	0.547	1.53	780.4	SUELO ADECUADO	1.585	8.16	462.0
	VEGETAL	2.118	10.90	758.5	TERRAPLEN	0.003	0.19	241.1
265.000	EXC SUELO 3	1.390	4.84	785.2	SUELO ADECUADO	1.653	8.10	470.1
	VEGETAL	2.512	11.58	770.1	TERRAPLEN	0.086	0.22	241.3
270.000	EXC SUELO 3	1.198	6.47	791.7	SUELO ADECUADO	1.676	8.32	478.4
	VEGETAL	2.539	12.63	782.7	TERRAPLEN	0.089	0.44	241.7
275.000	EXC SUELO 3	1.285	6.21	797.9	SUELO ADECUADO	1.672	8.37	486.8
	VEGETAL	2.530	12.67	795.4	TERRAPLEN	0.083	0.43	242.1
278.044	EXC SUELO 3	1.554	4.32	802.2	SUELO ADECUADO	1.759	5.22	492.0
	VEGETAL	2.885	8.24	803.6	TERRAPLEN	0.164	0.38	242.5
280.000	EXC SUELO 3	1.269	2.76	805.0	SUELO ADECUADO	1.671	3.35	495.4
	VEGETAL	2.551	5.32	808.9	TERRAPLEN	0.088	0.25	242.8
281.191	EXC SUELO 3	1.223	1.48	806.4	SUELO ADECUADO	1.692	2.00	497.4
	VEGETAL	2.575	3.05	812.0	TERRAPLEN	0.088	0.10	242.9

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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 3	806.4
SUELO ADECUADO	497.4
VEGETAL	812.0
TERRAPLEN	242.9

DESVÍOS PROVISIONALES

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	CAPA DE FORMA	4.461	0.00	0.0	SUBBALASTO	1.870	0.00	0.0
	BALASTO	2.405	0.00	0.0	EXC SUELO 2	7.795	0.00	0.0
	TERRAPLEN	12.427	0.00	0.0				
5.000	CAPA DE FORMA	4.461	22.30	22.3	SUBBALASTO	1.870	9.35	9.4
	BALASTO	2.405	12.02	12.0	EXC SUELO 2	7.747	38.86	38.9
	TERRAPLEN	12.722	62.87	62.9				
10.000	CAPA DE FORMA	4.461	22.30	44.6	SUBBALASTO	1.870	9.35	18.7
	BALASTO	2.405	12.02	24.0	EXC SUELO 2	7.777	38.81	77.7
	TERRAPLEN	12.932	64.14	127.0				
11.274	CAPA DE FORMA	4.461	5.68	50.3	SUBBALASTO	1.870	2.38	21.1
	BALASTO	2.405	3.06	27.1	EXC SUELO 2	7.846	9.95	87.6
	TERRAPLEN	12.757	16.36	143.4				
15.000	CAPA DE FORMA	4.461	16.62	66.9	SUBBALASTO	1.870	6.97	28.1
	BALASTO	2.390	8.93	36.0	EXC SUELO 2	8.221	29.93	117.6
	TERRAPLEN	11.950	46.03	189.4				
20.000	CAPA DE FORMA	4.461	22.30	89.2	SUBBALASTO	1.870	9.35	37.4
	BALASTO	2.370	11.90	47.9	EXC SUELO 2	8.264	41.21	158.8
	TERRAPLEN	9.903	54.63	244.0				
25.000	CAPA DE FORMA	4.461	22.31	111.5	SUBBALASTO	1.870	9.35	46.8
	BALASTO	2.350	11.80	59.7	EXC SUELO 2	7.790	40.14	198.9
	TERRAPLEN	8.271	45.43	289.5				
30.000	CAPA DE FORMA	4.461	22.31	133.8	SUBBALASTO	1.870	9.35	56.1
	BALASTO	2.331	11.70	71.5	EXC SUELO 2	7.475	38.16	237.1
	TERRAPLEN	7.456	39.32	328.8				
35.000	CAPA DE FORMA	4.611	22.68	156.5	SUBBALASTO	1.889	9.40	65.5
	BALASTO	2.311	11.60	83.1	EXC SUELO 2	7.118	36.48	273.5
	TERRAPLEN	7.596	37.63	366.4				
40.000	CAPA DE FORMA	4.611	23.06	179.6	SUBBALASTO	1.889	9.44	74.9
	BALASTO	2.291	11.51	94.6	EXC SUELO 2	7.178	35.74	309.3
	TERRAPLEN	11.696	48.23	414.6				
45.000	CAPA DE FORMA	4.611	23.06	202.6	SUBBALASTO	1.889	9.44	84.4
	BALASTO	2.272	11.41	106.0	EXC SUELO 2	7.088	35.66	345.0
	TERRAPLEN	11.348	57.61	472.3				
50.000	CAPA DE FORMA	4.611	23.06	225.7	SUBBALASTO	1.889	9.44	93.8
	BALASTO	2.253	11.31	117.3	EXC SUELO 2	7.278	35.91	380.9
	TERRAPLEN	10.658	55.01	527.3				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
55.000	CAPA DE FORMA	4.461	22.68	248.4	SUBBALASTO	1.870	9.40	103.2
	BALASTO	2.233	11.22	128.5	EXC SUELO 2	8.379	39.14	420.0
	TERRAPLEN	6.437	42.74	570.0				
60.000	CAPA DE FORMA	4.612	22.68	271.0	SUBBALASTO	1.889	9.40	112.6
	BALASTO	2.214	11.12	139.6	EXC SUELO 2	6.907	38.22	458.2
	TERRAPLEN	9.164	39.00	609.0				
65.000	CAPA DE FORMA	4.611	23.06	294.1	SUBBALASTO	1.889	9.44	122.1
	BALASTO	2.195	11.02	150.6	EXC SUELO 2	6.946	34.63	492.9
	TERRAPLEN	8.578	44.36	653.4				
70.000	CAPA DE FORMA	4.611	23.06	317.1	SUBBALASTO	1.889	9.44	131.5
	BALASTO	2.176	10.93	161.6	EXC SUELO 2	7.056	35.01	527.9
	TERRAPLEN	8.722	43.25	696.6				
75.000	CAPA DE FORMA	4.611	23.06	340.2	SUBBALASTO	1.889	9.44	141.0
	BALASTO	2.157	10.83	172.4	EXC SUELO 2	7.135	35.48	563.3
	TERRAPLEN	8.853	43.94	740.6				
80.000	CAPA DE FORMA	4.611	23.06	363.3	SUBBALASTO	1.889	9.44	150.4
	BALASTO	2.139	10.74	183.1	EXC SUELO 2	7.733	37.17	600.5
	TERRAPLEN	9.041	44.74	785.3				
85.000	CAPA DE FORMA	4.611	23.06	386.3	SUBBALASTO	1.889	9.44	159.8
	BALASTO	2.120	10.65	193.8	EXC SUELO 2	7.740	38.68	639.2
	TERRAPLEN	7.685	41.82	827.1				
90.000	CAPA DE FORMA	4.611	23.06	409.4	SUBBALASTO	1.889	9.44	169.3
	BALASTO	2.102	10.55	204.3	EXC SUELO 2	7.564	38.26	677.5
	TERRAPLEN	7.884	38.92	866.0				
95.000	CAPA DE FORMA	4.611	23.06	432.4	SUBBALASTO	1.889	9.44	178.7
	BALASTO	2.083	10.46	214.8	EXC SUELO 2	7.522	37.72	715.2
	TERRAPLEN	7.049	37.33	903.4				
100.000	CAPA DE FORMA	4.611	23.06	455.5	SUBBALASTO	1.889	9.44	188.2
	BALASTO	2.065	10.37	225.2	EXC SUELO 2	7.821	38.36	753.5
	TERRAPLEN	4.644	29.23	932.6				
105.000	CAPA DE FORMA	4.611	23.06	478.5	SUBBALASTO	1.889	9.44	197.6
	BALASTO	2.047	10.28	235.5	EXC SUELO 2	7.790	39.03	792.6
	TERRAPLEN	3.825	21.17	953.8				
110.000	CAPA DE FORMA	4.611	23.06	501.6	SUBBALASTO	1.889	9.44	207.1
	BALASTO	2.029	10.19	245.7	EXC SUELO 2	7.893	39.21	831.8
	TERRAPLEN	3.357	17.96	971.7				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
115.000	CAPA DE FORMA	4.611	23.06	524.7	SUBBALASTO	1.889	9.44	216.5
	BALASTO	2.011	10.10	255.8	EXC SUELO 2	7.979	39.68	871.5
	TERRAPLEN	3.051	16.02	987.8				
120.000	CAPA DE FORMA	4.461	22.68	547.3	SUBBALASTO	1.870	9.40	225.9
	BALASTO	1.993	10.01	265.8	EXC SUELO 2	8.108	40.22	911.7
	TERRAPLEN	2.885	14.84	1002.6				
125.000	CAPA DE FORMA	4.461	22.31	569.6	SUBBALASTO	1.870	9.35	235.3
	BALASTO	1.975	9.92	275.7	EXC SUELO 2	8.513	41.55	953.2
	TERRAPLEN	2.649	13.83	1016.4				
128.357	CAPA DE FORMA	4.461	14.98	584.6	SUBBALASTO	1.870	6.28	241.5
	BALASTO	1.964	6.61	282.3	EXC SUELO 2	8.807	29.07	982.3
	TERRAPLEN	2.209	8.15	1024.6				
130.000	CAPA DE FORMA	4.461	7.33	591.9	SUBBALASTO	1.870	3.07	244.6
	BALASTO	1.964	3.23	285.5	EXC SUELO 2	9.015	14.64	996.9
	TERRAPLEN	2.081	3.52	1028.1				
135.000	CAPA DE FORMA	4.461	22.30	614.2	SUBBALASTO	1.870	9.35	254.0
	BALASTO	1.964	9.82	295.3	EXC SUELO 2	9.848	47.16	1044.1
	TERRAPLEN	1.698	9.45	1037.6				
140.000	CAPA DE FORMA	4.461	22.30	636.5	SUBBALASTO	1.870	9.35	263.3
	BALASTO	1.964	9.82	305.2	EXC SUELO 2	11.270	52.80	1096.9
	TERRAPLEN	1.174	7.18	1044.7				
145.000	CAPA DE FORMA	4.311	21.93	658.5	SUBBALASTO	1.851	9.30	272.6
	BALASTO	1.964	9.82	315.0	EXC SUELO 2	12.632	59.75	1156.6
	TERRAPLEN	0.000	2.94	1047.7				
150.000	CAPA DE FORMA	4.311	21.55	680.0	SUBBALASTO	1.851	9.26	281.9
	BALASTO	1.964	9.82	324.8	EXC SUELO 2	13.872	66.26	1222.9
155.000	CAPA DE FORMA	4.311	21.55	701.6	SUBBALASTO	1.851	9.26	291.1
	BALASTO	1.964	9.82	334.6	EXC SUELO 2	16.077	74.87	1297.8
160.000	CAPA DE FORMA	4.311	21.55	723.1	SUBBALASTO	1.851	9.26	300.4
	BALASTO	1.964	9.82	344.4	EXC SUELO 2	18.287	85.91	1383.7
165.000	CAPA DE FORMA	4.311	21.55	744.7	SUBBALASTO	1.851	9.26	309.6
	BALASTO	1.964	9.82	354.3	EXC SUELO 2	19.500	94.47	1478.2
170.000	CAPA DE FORMA	4.311	21.55	766.2	SUBBALASTO	1.851	9.26	318.9
	BALASTO	1.964	9.82	364.1	EXC SUELO 2	20.480	99.95	1578.1
175.000	CAPA DE FORMA	4.311	21.55	787.8	SUBBALASTO	1.851	9.26	328.2
	BALASTO	1.964	9.82	373.9	EXC SUELO 2	19.925	101.01	1679.1
180.000	CAPA DE FORMA	4.311	21.55	809.3	SUBBALASTO	1.851	9.26	337.4
	BALASTO	1.964	9.82	383.7	EXC SUELO 2	22.385	105.77	1784.9

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
185.000	CAPA DE FORMA	4.311	21.55	830.9	SUBBALASTO	1.851	9.26	346.7
	BALASTO	1.964	9.82	393.5	EXC SUELO 2	25.748	120.33	1905.2
190.000	CAPA DE FORMA	4.311	21.55	852.5	SUBBALASTO	1.851	9.26	355.9
	BALASTO	1.964	9.82	403.3	EXC SUELO 2	26.724	131.18	2036.4
195.000	CAPA DE FORMA	4.311	21.55	874.0	SUBBALASTO	1.851	9.26	365.2
	BALASTO	1.964	9.82	413.2	EXC SUELO 2	26.334	132.64	2169.0
200.000	CAPA DE FORMA	4.311	21.55	895.6	SUBBALASTO	1.851	9.26	374.4
	BALASTO	1.964	9.82	423.0	EXC SUELO 2	24.118	126.13	2295.2
205.000	CAPA DE FORMA	4.311	21.55	917.1	SUBBALASTO	1.851	9.26	383.7
	BALASTO	1.964	9.82	432.8	EXC SUELO 2	20.662	111.95	2407.1
210.000	CAPA DE FORMA	4.311	21.55	938.7	SUBBALASTO	1.851	9.26	393.0
	BALASTO	1.964	9.82	442.6	EXC SUELO 2	19.189	99.63	2506.7
215.000	CAPA DE FORMA	4.311	21.55	960.2	SUBBALASTO	1.851	9.26	402.2
	BALASTO	1.964	9.82	452.4	EXC SUELO 2	18.949	95.34	2602.1
220.000	CAPA DE FORMA	4.311	21.55	981.8	SUBBALASTO	1.851	9.26	411.5
	BALASTO	1.964	9.82	462.3	EXC SUELO 2	22.668	104.04	2706.1
225.000	CAPA DE FORMA	4.311	21.55	1003.3	SUBBALASTO	1.851	9.26	420.7
	BALASTO	1.964	9.82	472.1	EXC SUELO 2	23.837	116.26	2822.4
230.000	CAPA DE FORMA	4.311	21.55	1024.9	SUBBALASTO	1.851	9.26	430.0
	BALASTO	1.964	9.82	481.9	EXC SUELO 2	27.562	128.50	2950.9
235.000	CAPA DE FORMA	4.311	21.55	1046.4	SUBBALASTO	1.851	9.26	439.2
	BALASTO	1.964	9.82	491.7	EXC SUELO 2	36.039	159.00	3109.9
240.000	CAPA DE FORMA	4.311	21.55	1068.0	SUBBALASTO	1.851	9.26	448.5
	BALASTO	1.963	9.82	501.5	EXC SUELO 2	92.625	321.66	3431.6
245.000	CAPA DE FORMA	4.311	21.55	1089.5	SUBBALASTO	1.851	9.26	457.8
	BALASTO	1.964	9.82	511.4	EXC SUELO 2	254.665	868.22	4299.8
250.000	CAPA DE FORMA	4.311	21.55	1111.1	SUBBALASTO	1.851	9.26	467.0
	BALASTO	1.964	9.82	521.2	EXC SUELO 2	258.407	1282.68	5582.5
255.000	CAPA DE FORMA	4.311	21.55	1132.6	SUBBALASTO	1.851	9.26	476.3
	BALASTO	1.964	9.82	531.0	EXC SUELO 2	143.063	1003.67	6586.1
260.000	CAPA DE FORMA	4.311	21.55	1154.2	SUBBALASTO	1.851	9.26	485.5
	BALASTO	1.964	9.82	540.8	EXC SUELO 2	44.296	468.40	7054.5

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
260.000	CAPA DE FORMA	4.311	0.00	1154.2	EXC SUELO 3	32.860	0.00	0.0
	SUBBALASTO	1.851	0.00	485.5	BALASTO	1.964	0.00	540.8
	VEGETAL	11.436	0.00	0.0				
265.000	CAPA DE FORMA	4.311	21.55	1175.8	EXC SUELO 3	20.795	134.14	134.1
	SUBBALASTO	1.851	9.26	494.8	BALASTO	1.964	9.82	550.6
	VEGETAL	9.105	51.35	51.4	TERRAPLEN	0.163	0.41	1048.1
270.000	CAPA DE FORMA	4.311	21.55	1197.3	EXC SUELO 3	15.559	90.89	225.0
	SUBBALASTO	1.851	9.26	504.0	BALASTO	1.964	9.82	560.4
	VEGETAL	6.878	39.96	91.3	TERRAPLEN	0.000	0.41	1048.5
275.000	CAPA DE FORMA	4.311	21.55	1218.9	EXC SUELO 3	15.234	76.98	302.0
	SUBBALASTO	1.851	9.26	513.3	BALASTO	1.964	9.82	570.3
	VEGETAL	6.489	33.42	124.7				
280.000	CAPA DE FORMA	4.311	21.55	1240.4	EXC SUELO 3	15.369	76.51	378.5
	SUBBALASTO	1.851	9.26	522.5	BALASTO	1.964	9.82	580.1
	VEGETAL	6.544	32.58	157.3				
285.000	CAPA DE FORMA	4.311	21.55	1262.0	EXC SUELO 3	15.772	77.85	456.4
	SUBBALASTO	1.851	9.26	531.8	BALASTO	1.964	9.82	589.9
	VEGETAL	6.805	33.37	190.7				
290.000	CAPA DE FORMA	4.311	21.55	1283.5	EXC SUELO 3	14.743	76.29	532.7
	SUBBALASTO	1.851	9.26	541.1	BALASTO	1.963	9.82	599.7
	VEGETAL	6.858	34.16	224.8				
295.000	CAPA DE FORMA	4.311	21.55	1305.1	EXC SUELO 3	14.470	73.03	605.7
	SUBBALASTO	1.851	9.26	550.3	BALASTO	1.964	9.82	609.5
	VEGETAL	7.010	34.67	259.5				
300.000	CAPA DE FORMA	4.311	21.55	1326.6	EXC SUELO 3	14.716	72.97	678.7
	SUBBALASTO	1.851	9.26	559.6	BALASTO	1.963	9.82	619.4
	VEGETAL	7.299	35.77	295.3				
305.000	CAPA DE FORMA	4.311	21.55	1348.2	EXC SUELO 3	13.205	69.80	748.5
	SUBBALASTO	1.851	9.26	568.8	BALASTO	1.964	9.82	629.2
	VEGETAL	7.691	37.47	332.8	TERRAPLEN	0.078	0.20	1048.7
307.470	CAPA DE FORMA	4.311	10.65	1358.8	EXC SUELO 3	15.241	35.13	783.6
	SUBBALASTO	1.851	4.57	573.4	BALASTO	1.964	4.85	634.0
	VEGETAL	7.922	19.28	352.0	TERRAPLEN	0.173	0.31	1049.0
310.000	CAPA DE FORMA	4.311	10.91	1369.7	EXC SUELO 3	18.640	42.86	826.4
	SUBBALASTO	1.851	4.68	578.1	BALASTO	1.977	4.99	639.0
	VEGETAL	8.130	20.31	372.3	TERRAPLEN	0.225	0.50	1049.5

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
315.000	CAPA DE FORMA	4.311	21.55	1391.3	EXC SUELO 3	20.457	97.74	924.2
	SUBBALASTO	1.851	9.26	587.3	BALASTO	2.006	9.96	649.0
	VEGETAL	8.033	40.41	412.7	TERRAPLEN	0.602	2.07	1051.6
320.000	CAPA DE FORMA	4.311	21.55	1412.9	EXC SUELO 3	16.358	92.04	1016.2
	SUBBALASTO	1.851	9.26	596.6	BALASTO	2.034	10.10	659.1
	VEGETAL	7.588	39.05	451.8	TERRAPLEN	1.076	4.19	1055.8
325.000	CAPA DE FORMA	4.311	21.55	1434.4	EXC SUELO 3	11.699	70.14	1086.4
	SUBBALASTO	1.851	9.26	605.9	BALASTO	2.062	10.24	669.3
	VEGETAL	7.082	36.68	488.5	TERRAPLEN	2.034	7.77	1063.5
330.000	CAPA DE FORMA	4.311	21.55	1456.0	EXC SUELO 3	8.709	51.02	1137.4
	SUBBALASTO	1.851	9.26	615.1	BALASTO	2.090	10.38	679.7
	VEGETAL	6.736	34.55	523.0	TERRAPLEN	3.013	12.62	1076.1
335.000	CAPA DE FORMA	4.461	21.93	1477.9	EXC SUELO 3	5.531	35.60	1173.0
	SUBBALASTO	1.870	9.30	624.4	BALASTO	2.119	10.52	690.2
	VEGETAL	6.659	33.49	556.5	TERRAPLEN	10.969	34.95	1111.1
340.000	CAPA DE FORMA	4.461	22.30	1500.2	EXC SUELO 3	1.805	18.34	1191.3
	SUBBALASTO	1.870	9.35	633.8	BALASTO	2.148	10.67	700.9
	VEGETAL	6.105	31.91	588.4	TERRAPLEN	14.606	63.94	1175.0
345.000	CAPA DE FORMA	4.611	22.68	1522.9	EXC SUELO 3	0.000	4.51	1195.8
	SUBBALASTO	1.889	9.40	643.2	BALASTO	2.177	10.81	711.7
	VEGETAL	4.924	27.57	616.0	TERRAPLEN	18.265	82.18	1257.2
350.000	CAPA DE FORMA	4.611	23.06	1545.9	SUBBALASTO	1.889	9.44	652.6
	BALASTO	2.207	10.96	722.6	VEGETAL	5.869	26.98	643.0
	TERRAPLEN	32.294	126.40	1383.6				
355.000	CAPA DE FORMA	4.611	23.06	1569.0	SUBBALASTO	1.889	9.44	662.0
	BALASTO	2.236	11.11	733.8	VEGETAL	6.377	30.62	673.6
	TERRAPLEN	37.624	174.80	1558.4				
360.000	CAPA DE FORMA	4.611	23.06	1592.0	SUBBALASTO	1.889	9.44	671.5
	BALASTO	2.267	11.26	745.0	VEGETAL	7.115	33.73	707.3
	TERRAPLEN	60.494	245.29	1803.7				
365.000	CAPA DE FORMA	4.611	23.06	1615.1	SUBBALASTO	1.889	9.44	680.9
	BALASTO	2.297	11.41	756.4	VEGETAL	7.700	37.04	744.4
	TERRAPLEN	76.277	341.93	2145.6				
370.000	CAPA DE FORMA	4.611	23.06	1638.2	SUBBALASTO	1.889	9.44	690.4
	BALASTO	2.328	11.56	768.0	VEGETAL	8.635	40.84	785.2
	TERRAPLEN	67.632	359.77	2505.4				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
375.000	CAPA DE FORMA	4.611	23.06	1661.2	SUBBALASTO	1.889	9.44	699.8
	BALASTO	2.358	11.72	779.7	VEGETAL	7.436	40.18	825.4
	TERRAPLEN	48.566	290.50	2795.9				
380.000	CAPA DE FORMA	4.611	23.06	1684.3	SUBBALASTO	1.889	9.44	709.3
	BALASTO	2.390	11.87	791.6	VEGETAL	6.353	34.47	859.8
	TERRAPLEN	31.928	201.24	2997.1				
382.470	CAPA DE FORMA	4.611	11.39	1695.7	SUBBALASTO	1.889	4.66	713.9
	BALASTO	2.405	5.92	797.5	VEGETAL	6.410	15.76	875.6
	TERRAPLEN	32.754	79.88	3077.0				
385.000	CAPA DE FORMA	4.611	11.67	1707.3	SUBBALASTO	1.889	4.78	718.7
	BALASTO	2.405	6.08	803.6	VEGETAL	6.045	15.76	891.4
	TERRAPLEN	27.492	76.21	3153.2				
390.000	CAPA DE FORMA	4.461	22.68	1730.0	EXC SUELO 3	1.026	2.57	1198.4
	SUBBALASTO	1.870	9.40	728.1	BALASTO	2.405	12.03	815.6
	VEGETAL	6.104	30.37	921.7	TERRAPLEN	14.330	104.55	3257.8
395.000	CAPA DE FORMA	4.611	22.68	1752.7	EXC SUELO 3	0.000	2.57	1201.0
	SUBBALASTO	1.889	9.40	737.5	BALASTO	2.405	12.02	827.6
	VEGETAL	5.218	28.31	950.0	TERRAPLEN	17.045	78.44	3336.2
400.000	CAPA DE FORMA	4.611	23.06	1775.7	SUBBALASTO	1.889	9.44	747.0
	BALASTO	2.405	12.02	839.6	VEGETAL	4.890	25.27	975.3
	TERRAPLEN	12.797	74.61	3410.8				
405.000	CAPA DE FORMA	4.611	23.06	1798.8	SUBBALASTO	1.889	9.44	756.4
	BALASTO	2.405	12.02	851.7	VEGETAL	4.355	23.11	998.4
	TERRAPLEN	7.637	51.09	3461.9				
410.000	CAPA DE FORMA	4.461	22.68	1821.5	EXC SUELO 3	0.008	0.02	1201.0
	SUBBALASTO	1.870	9.40	765.8	BALASTO	2.405	12.03	863.7
	VEGETAL	4.729	22.71	1021.1	TERRAPLEN	6.228	34.66	3496.6
415.000	CAPA DE FORMA	4.311	21.93	1843.4	EXC SUELO 3	2.062	5.18	1206.2
	SUBBALASTO	1.851	9.30	775.1	BALASTO	2.405	12.03	875.7
	VEGETAL	5.801	26.32	1047.5	TERRAPLEN	0.059	15.72	3512.3
420.000	CAPA DE FORMA	4.311	21.55	1865.0	EXC SUELO 3	3.719	14.45	1220.6
	SUBBALASTO	1.851	9.26	784.4	BALASTO	2.405	12.02	887.8
	VEGETAL	5.923	29.31	1076.8	TERRAPLEN	0.000	0.15	3512.4
425.000	CAPA DE FORMA	4.311	21.55	1886.5	EXC SUELO 3	11.685	38.51	1259.1
	SUBBALASTO	1.851	9.26	793.6	BALASTO	2.405	12.02	899.8
	VEGETAL	6.430	30.88	1107.6				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
430.000	CAPA DE FORMA	4.311	21.55	1908.1	EXC SUELO 3	14.336	65.05	1324.2
	SUBBALASTO	1.851	9.26	802.9	BALASTO	2.405	12.03	911.8
	VEGETAL	6.376	32.02	1139.7				
435.000	CAPA DE FORMA	4.311	21.55	1929.6	EXC SUELO 3	17.848	80.46	1404.6
	SUBBALASTO	1.851	9.26	812.1	BALASTO	2.405	12.03	923.8
	VEGETAL	6.538	32.29	1171.9				
440.000	CAPA DE FORMA	4.311	21.55	1951.2	EXC SUELO 3	26.459	110.77	1515.4
	SUBBALASTO	1.851	9.26	821.4	BALASTO	2.405	12.02	935.9
	VEGETAL	7.076	34.03	1206.0				
445.000	CAPA DE FORMA	4.311	21.55	1972.7	EXC SUELO 3	38.553	162.53	1677.9
	SUBBALASTO	1.851	9.26	830.6	BALASTO	2.405	12.02	947.9
	VEGETAL	7.456	36.33	1242.3				
450.000	CAPA DE FORMA	4.311	21.55	1994.3	EXC SUELO 3	27.121	164.19	1842.1
	SUBBALASTO	1.851	9.26	839.9	BALASTO	2.405	12.03	959.9
	VEGETAL	7.025	36.20	1278.5				
455.000	CAPA DE FORMA	4.311	21.55	2015.8	EXC SUELO 3	25.617	131.85	1974.0
	SUBBALASTO	1.851	9.26	849.2	BALASTO	2.405	12.02	971.9
	VEGETAL	7.493	36.29	1314.8				
460.000	CAPA DE FORMA	4.311	21.55	2037.4	EXC SUELO 3	17.127	106.86	2080.8
	SUBBALASTO	1.851	9.26	858.4	BALASTO	2.405	12.03	984.0
	VEGETAL	7.089	36.46	1351.3				
465.000	CAPA DE FORMA	4.311	21.55	2058.9	EXC SUELO 3	14.698	79.56	2160.4
	SUBBALASTO	1.851	9.26	867.7	BALASTO	2.405	12.03	996.0
	VEGETAL	6.428	33.79	1385.1	TERRAPLEN	0.002	0.01	3512.4
470.000	CAPA DE FORMA	4.461	21.93	2080.9	EXC SUELO 3	14.019	71.79	2232.2
	SUBBALASTO	1.870	9.30	877.0	BALASTO	2.405	12.03	1008.0
	VEGETAL	5.978	31.02	1416.1	TERRAPLEN	2.459	6.15	3518.6
475.000	CAPA DE FORMA	4.461	22.30	2103.2	EXC SUELO 3	14.056	70.19	2302.4
	SUBBALASTO	1.870	9.35	886.3	BALASTO	2.405	12.03	1020.0
	VEGETAL	6.131	30.27	1446.3	TERRAPLEN	2.405	12.16	3530.8
480.000	CAPA DE FORMA	4.461	22.30	2125.5	EXC SUELO 3	13.593	69.12	2371.5
	SUBBALASTO	1.870	9.35	895.7	BALASTO	2.405	12.03	1032.1
	VEGETAL	6.545	31.69	1478.0	TERRAPLEN	4.689	17.74	3548.5
485.000	CAPA DE FORMA	4.461	22.30	2147.8	EXC SUELO 3	12.575	65.42	2436.9
	SUBBALASTO	1.870	9.35	905.0	BALASTO	2.405	12.03	1044.1
	VEGETAL	6.539	32.71	1510.7	TERRAPLEN	5.143	24.58	3573.1

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
490.000	CAPA DE FORMA	4.461	22.30	2170.1	EXC SUELO 3	12.069	61.61	2498.5
	SUBBALASTO	1.870	9.35	914.4	BALASTO	2.405	12.03	1056.1
	VEGETAL	6.445	32.46	1543.2	TERRAPLEN	5.311	26.14	3599.2
495.000	CAPA DE FORMA	4.461	22.30	2192.4	EXC SUELO 3	11.996	60.16	2558.7
	SUBBALASTO	1.870	9.35	923.7	BALASTO	2.405	12.03	1068.1
	VEGETAL	6.183	31.57	1574.8	TERRAPLEN	3.718	22.57	3621.8
500.000	CAPA DE FORMA	4.311	21.93	2214.3	EXC SUELO 3	12.159	60.39	2619.1
	SUBBALASTO	1.851	9.30	933.0	BALASTO	2.405	12.03	1080.2
	VEGETAL	5.291	28.68	1603.5	TERRAPLEN	0.049	9.42	3631.2
505.000	CAPA DE FORMA	4.311	21.55	2235.9	EXC SUELO 3	11.398	58.89	2678.0
	SUBBALASTO	1.851	9.26	942.3	BALASTO	2.405	12.03	1092.2
	VEGETAL	5.281	26.43	1629.9	TERRAPLEN	0.054	0.26	3631.5
510.000	CAPA DE FORMA	4.461	21.93	2257.8	EXC SUELO 3	6.683	45.20	2723.2
	SUBBALASTO	1.870	9.30	951.6	BALASTO	2.405	12.03	1104.2
	VEGETAL	5.415	26.74	1656.6	TERRAPLEN	4.689	11.86	3643.3
515.000	CAPA DE FORMA	4.461	22.30	2280.1	EXC SUELO 3	6.200	32.21	2755.4
	SUBBALASTO	1.870	9.35	960.9	BALASTO	2.405	12.03	1116.2
	VEGETAL	5.303	26.79	1683.4	TERRAPLEN	5.572	25.65	3669.0
520.000	CAPA DE FORMA	4.461	22.30	2302.4	EXC SUELO 3	4.976	27.94	2783.3
	SUBBALASTO	1.870	9.35	970.3	BALASTO	2.405	12.03	1128.3
	VEGETAL	5.230	26.33	1709.8	TERRAPLEN	7.786	33.39	3702.4
525.000	CAPA DE FORMA	4.461	22.30	2324.7	EXC SUELO 3	4.845	24.55	2807.9
	SUBBALASTO	1.870	9.35	979.6	BALASTO	2.405	12.03	1140.3
	VEGETAL	5.165	25.99	1735.7	TERRAPLEN	8.160	39.86	3742.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
525.000	CAPA DE FORMA	3.908	0.00	2324.7	EXC ROCA 1	5.321	0.00	0.0
	SUBBALASTO	1.801	0.00	979.6	BALASTO	2.405	0.00	1140.3
	MUROS	3.118	0.00	0.0	VEGETAL	4.792	0.00	1735.7
	TERRAPLEN	4.761	0.00	3742.2				
530.000	CAPA DE FORMA	3.908	19.54	2344.3	EXC ROCA 1	6.906	30.57	30.6
	SUBBALASTO	1.801	9.00	988.7	BALASTO	2.405	12.03	1152.3
	MUROS	2.714	14.58	14.6	VEGETAL	4.799	23.98	1759.7
	TERRAPLEN	0.725	13.72	3755.9				
531.469	CAPA DE FORMA	3.908	5.74	2350.0	EXC ROCA 1	6.903	10.14	40.7
	SUBBALASTO	1.801	2.65	991.3	BALASTO	2.405	3.53	1155.8
	MUROS	2.752	4.01	18.6	VEGETAL	4.801	7.05	1766.8
	TERRAPLEN	0.942	1.22	3757.2				
535.000	CAPA DE FORMA	3.908	13.80	2363.8	EXC ROCA 1	6.347	23.39	64.1
	SUBBALASTO	1.801	6.36	997.7	BALASTO	2.397	8.48	1164.3
	MUROS	2.961	10.09	28.7	VEGETAL	4.808	16.97	1783.7
	TERRAPLEN	1.920	5.05	3762.2				
540.000	CAPA DE FORMA	3.908	19.54	2383.3	EXC ROCA 1	6.034	30.95	95.1
	SUBBALASTO	1.801	9.00	1006.7	BALASTO	2.386	11.96	1176.3
	MUROS	3.761	16.80	45.5	VEGETAL	4.821	24.07	1807.8
	TERRAPLEN	4.717	16.59	3778.8				
545.000	CAPA DE FORMA	3.908	19.54	2402.9	EXC ROCA 1	26.094	80.32	175.4
	SUBBALASTO	1.801	9.00	1015.7	BALASTO	2.375	11.90	1188.2
	MUROS	3.830	18.98	64.5	VEGETAL	5.337	25.39	1833.2
	TERRAPLEN	4.448	22.91	3801.7				
550.000	CAPA DE FORMA	3.908	19.54	2422.4	EXC ROCA 1	42.503	171.49	346.9
	SUBBALASTO	1.801	9.01	1024.7	BALASTO	2.364	11.85	1200.0
	MUROS	3.794	19.06	83.5	VEGETAL	6.621	29.90	1863.1
	TERRAPLEN	6.577	27.56	3829.3				
555.000	CAPA DE FORMA	3.908	19.54	2442.0	EXC ROCA 1	17.599	150.25	497.1
	SUBBALASTO	1.801	9.01	1033.7	BALASTO	2.353	11.79	1211.8
	MUROS	3.752	18.87	102.4	VEGETAL	5.076	29.24	1892.3
	TERRAPLEN	3.789	25.92	3855.2				
560.000	CAPA DE FORMA	3.908	19.54	2461.5	EXC ROCA 1	6.703	60.76	557.9
	SUBBALASTO	1.801	9.01	1042.7	BALASTO	2.342	11.74	1223.6
	MUROS	3.426	17.95	120.3	VEGETAL	4.868	24.86	1917.2
	TERRAPLEN	2.064	14.63	3869.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
565.000	CAPA DE FORMA	3.908	19.54	2481.0	EXC ROCA 1	0.477	17.95	575.8
	SUBBALASTO	1.801	9.01	1051.7	BALASTO	2.331	11.68	1235.2
	MUROS	3.652	17.70	138.0	VEGETAL	4.104	22.43	1939.6
	TERRAPLEN	4.602	16.67	3886.5				
570.000	CAPA DE FORMA	4.058	19.92	2500.9	EXC ROCA 1	0.956	3.58	579.4
	SUBBALASTO	1.820	9.05	1060.7	BALASTO	2.320	11.63	1246.9
	MUROS	1.987	14.10	152.1	VEGETAL	3.834	19.84	1959.5
	TERRAPLEN	1.805	16.02	3902.5				
575.000	CAPA DE FORMA	4.059	20.29	2521.2	EXC ROCA 1	1.261	5.54	584.9
	SUBBALASTO	1.820	9.10	1069.8	BALASTO	2.309	11.57	1258.5
	MUROS	2.392	10.95	163.1	VEGETAL	3.860	19.23	1978.7
	TERRAPLEN	2.463	10.67	3913.2				
580.000	CAPA DE FORMA	4.059	20.29	2541.5	EXC ROCA 1	1.170	6.08	591.0
	SUBBALASTO	1.820	9.10	1078.9	BALASTO	2.299	11.52	1270.0
	MUROS	2.217	11.52	174.6	VEGETAL	3.842	19.25	1998.0
	TERRAPLEN	2.253	11.79	3925.0				
585.000	CAPA DE FORMA	4.058	20.29	2561.8	EXC ROCA 1	1.424	6.49	597.5
	SUBBALASTO	1.820	9.10	1088.0	BALASTO	2.288	11.47	1281.4
	MUROS	2.304	11.30	185.9	VEGETAL	3.836	19.19	2017.2
	TERRAPLEN	1.938	10.48	3935.5				
590.000	CAPA DE FORMA	4.059	20.29	2582.1	EXC ROCA 1	1.385	7.02	604.5
	SUBBALASTO	1.820	9.10	1097.1	BALASTO	2.277	11.41	1292.8
	MUROS	2.267	11.43	197.3	VEGETAL	4.495	20.83	2038.0
	TERRAPLEN	4.996	17.34	3952.8				
593.669	CAPA DE FORMA	4.059	14.89	2597.0	EXC ROCA 1	1.349	5.02	609.5
	SUBBALASTO	1.820	6.68	1103.8	BALASTO	2.269	8.34	1301.2
	MUROS	2.271	8.33	205.6	VEGETAL	4.646	16.77	2054.8
	TERRAPLEN	6.234	20.60	3973.4				
595.000	CAPA DE FORMA	4.059	5.40	2602.4	EXC ROCA 1	1.362	1.80	611.4
	SUBBALASTO	1.820	2.42	1106.2	BALASTO	2.269	3.02	1304.2
	MUROS	2.286	3.03	208.7	VEGETAL	4.661	6.19	2060.9
	TERRAPLEN	6.644	8.57	3982.0				
600.000	CAPA DE FORMA	4.059	20.29	2622.7	EXC ROCA 1	1.337	6.75	618.1
	SUBBALASTO	1.820	9.10	1115.3	BALASTO	2.269	11.35	1315.6
	MUROS	2.316	11.50	220.2	VEGETAL	4.542	23.01	2084.0
	TERRAPLEN	8.337	37.45	4019.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
605.000	CAPA DE FORMA	4.059	20.29	2643.0	EXC ROCA 1	1.180	6.29	624.4
	SUBBALASTO	1.820	9.10	1124.4	BALASTO	2.269	11.35	1326.9
	MUROS	2.315	11.58	231.8	VEGETAL	4.381	22.31	2106.3
	TERRAPLEN	10.196	46.33	4065.7				
610.000	CAPA DE FORMA	4.059	20.29	2663.3	EXC ROCA 1	0.965	5.36	629.8
	SUBBALASTO	1.820	9.10	1133.5	BALASTO	2.269	11.35	1338.3
	MUROS	2.215	11.33	243.1	VEGETAL	4.225	21.52	2127.8
	TERRAPLEN	11.174	53.43	4119.2				
615.000	CAPA DE FORMA	4.059	20.29	2683.6	EXC ROCA 1	0.923	4.72	634.5
	SUBBALASTO	1.820	9.10	1142.6	BALASTO	2.269	11.35	1349.6
	MUROS	2.156	10.93	254.0	VEGETAL	4.132	20.89	2148.7
	TERRAPLEN	11.172	55.86	4175.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
615.000	CAPA DE FORMA	3.498	0.00	2683.6	SUBBALASTO	1.750	0.00	1142.6
	BALASTO	2.269	0.00	1349.6	EXC SUELO 2	0.207	0.00	7054.5
	TERRAPLEN	5.524	0.00	4175.0				
620.000	CAPA DE FORMA	3.499	17.49	2701.1	SUBBALASTO	1.750	8.75	1151.4
	BALASTO	2.269	11.35	1360.9	EXC SUELO 2	0.017	0.56	7055.1
	TERRAPLEN	6.254	29.44	4204.5				
625.000	CAPA DE FORMA	3.499	17.50	2718.6	SUBBALASTO	1.750	8.75	1160.1
	BALASTO	2.269	11.35	1372.3	EXC SUELO 2	0.044	0.15	7055.2
	TERRAPLEN	6.137	30.98	4235.5				
630.000	CAPA DE FORMA	3.499	17.50	2736.1	SUBBALASTO	1.750	8.75	1168.9
	BALASTO	2.269	11.35	1383.6	EXC SUELO 2	0.025	0.17	7055.4
	TERRAPLEN	5.920	30.14	4265.6				
635.000	CAPA DE FORMA	3.500	17.50	2753.6	SUBBALASTO	1.750	8.75	1177.6
	BALASTO	2.269	11.35	1395.0	EXC SUELO 2	0.003	0.07	7055.5
	TERRAPLEN	5.429	28.37	4294.0				
640.000	CAPA DE FORMA	3.500	17.50	2771.1	SUBBALASTO	1.750	8.75	1186.4
	BALASTO	2.269	11.35	1406.3	TERRAPLEN	4.767	25.49	4319.5
645.000	CAPA DE FORMA	3.500	17.50	2788.6	SUBBALASTO	1.750	8.75	1195.1
	BALASTO	2.269	11.35	1417.7	TERRAPLEN	2.990	19.39	4338.9
650.000	CAPA DE FORMA	3.499	17.50	2806.1	SUBBALASTO	1.750	8.75	1203.9
	BALASTO	2.269	11.35	1429.0	EXC SUELO 2	0.011	0.03	7055.5
	TERRAPLEN	2.056	12.62	4351.5				
655.000	CAPA DE FORMA	3.499	17.50	2823.6	SUBBALASTO	1.750	8.75	1212.6
	BALASTO	2.269	11.35	1440.4	EXC SUELO 2	0.087	0.24	7055.8
	TERRAPLEN	1.227	8.21	4359.7				
660.000	CAPA DE FORMA	3.499	17.49	2841.1	SUBBALASTO	1.750	8.75	1221.4
	BALASTO	2.269	11.35	1451.7	EXC SUELO 2	0.313	1.00	7056.8
	TERRAPLEN	0.609	4.59	4364.3				
665.000	CAPA DE FORMA	3.498	17.49	2858.5	SUBBALASTO	1.750	8.75	1230.1
	BALASTO	2.269	11.35	1463.1	EXC SUELO 2	0.632	2.36	7059.1
	TERRAPLEN	0.243	2.13	4366.4				
670.000	CAPA DE FORMA	3.498	17.49	2876.0	SUBBALASTO	1.750	8.75	1238.9
	BALASTO	2.269	11.35	1474.4	EXC SUELO 2	1.065	4.24	7063.4
	TERRAPLEN	0.048	0.73	4367.1				
670.128	CAPA DE FORMA	3.498	0.45	2876.5	SUBBALASTO	1.750	0.22	1239.1
	BALASTO	2.269	0.29	1474.7	EXC SUELO 2	1.078	0.14	7063.5
	TERRAPLEN	0.045	0.01	4367.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
675.000	CAPA DE FORMA	3.497	17.04	2893.5	SUBBALASTO	1.750	8.53	1247.6
	BALASTO	2.279	11.08	1485.8	EXC SUELO 2	1.786	6.98	7070.5
	TERRAPLEN	0.010	0.13	4367.3				
680.000	CAPA DE FORMA	3.497	17.48	2911.0	SUBBALASTO	1.750	8.75	1256.4
	BALASTO	2.288	11.42	1497.2	EXC SUELO 2	2.301	10.22	7080.7
	TERRAPLEN	0.010	0.05	4367.3				
685.000	CAPA DE FORMA	3.497	17.48	2928.5	SUBBALASTO	1.750	8.75	1265.1
	BALASTO	2.299	11.47	1508.7	EXC SUELO 2	2.658	12.40	7093.1
	TERRAPLEN	0.032	0.10	4367.4				
690.000	CAPA DE FORMA	3.496	17.48	2946.0	SUBBALASTO	1.750	8.75	1273.9
	BALASTO	2.308	11.52	1520.2	EXC SUELO 2	2.987	14.11	7107.2
	TERRAPLEN	0.038	0.17	4367.6				
695.000	CAPA DE FORMA	3.497	17.48	2963.5	SUBBALASTO	1.750	8.75	1282.6
	BALASTO	2.318	11.57	1531.8	EXC SUELO 2	3.477	16.16	7123.4
	TERRAPLEN	0.005	0.11	4367.7				
700.000	CAPA DE FORMA	3.497	17.48	2980.9	SUBBALASTO	1.750	8.75	1291.4
	BALASTO	2.328	11.61	1543.4	EXC SUELO 2	3.983	18.65	7142.0
	TERRAPLEN	0.000	0.01	4367.7				
705.000	CAPA DE FORMA	3.496	17.48	2998.4	SUBBALASTO	1.750	8.75	1300.1
	BALASTO	2.338	11.66	1555.0	EXC SUELO 2	4.531	21.29	7163.3
710.000	CAPA DE FORMA	3.496	17.48	3015.9	SUBBALASTO	1.750	8.75	1308.9
	BALASTO	2.348	11.71	1566.7	EXC SUELO 2	6.149	26.70	7190.0
715.000	CAPA DE FORMA	3.495	17.48	3033.4	SUBBALASTO	1.750	8.75	1317.6
	BALASTO	2.358	11.76	1578.5	EXC SUELO 2	6.659	32.02	7222.0
720.000	CAPA DE FORMA	3.495	17.48	3050.9	SUBBALASTO	1.750	8.75	1326.4
	BALASTO	2.368	11.81	1590.3	EXC SUELO 2	7.164	34.56	7256.6
725.000	CAPA DE FORMA	3.495	17.47	3068.3	SUBBALASTO	1.750	8.75	1335.1
	BALASTO	2.378	11.86	1602.2	EXC SUELO 2	7.276	36.10	7292.7
730.000	CAPA DE FORMA	3.494	17.47	3085.8	SUBBALASTO	1.750	8.75	1343.9
	BALASTO	2.387	11.91	1614.1	EXC SUELO 2	7.445	36.80	7329.5
735.000	CAPA DE FORMA	3.494	17.47	3103.3	SUBBALASTO	1.749	8.75	1352.6
	BALASTO	2.398	11.96	1626.1	EXC SUELO 2	7.663	37.77	7367.3
738.740	CAPA DE FORMA	3.494	13.07	3116.3	SUBBALASTO	1.749	6.54	1359.1
	BALASTO	2.405	8.98	1635.0	EXC SUELO 2	7.890	29.08	7396.3
740.000	CAPA DE FORMA	3.494	4.40	3120.7	SUBBALASTO	1.749	2.20	1361.4
	BALASTO	2.405	3.03	1638.1	EXC SUELO 2	7.944	9.98	7406.3
745.000	CAPA DE FORMA	3.494	17.47	3138.2	SUBBALASTO	1.749	8.75	1370.1
	BALASTO	2.405	12.03	1650.1	EXC SUELO 2	8.039	39.96	7446.3

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
750.000	CAPA DE FORMA	3.493	17.47	3155.7	SUBBALASTO	1.749	8.75	1378.8
	BALASTO	2.405	12.03	1662.1	EXC SUELO 2	8.311	40.87	7487.2
755.000	CAPA DE FORMA	3.493	17.47	3173.1	SUBBALASTO	1.749	8.75	1387.6
	BALASTO	2.405	12.03	1674.1	EXC SUELO 2	8.632	42.36	7529.5
760.000	CAPA DE FORMA	0.000	8.73	3181.9	SUBBALASTO	0.000	4.37	1392.0
	BALASTO	2.405	12.03	1686.2	EXC SUELO 2	3.463	30.24	7559.7
765.000	BALASTO	2.405	12.02	1698.2	EXC SUELO 2	3.515	17.45	7577.2
770.000	BALASTO	2.405	12.02	1710.2	EXC SUELO 2	3.535	17.63	7594.8
775.000	BALASTO	2.405	12.02	1722.2	EXC SUELO 2	3.420	17.39	7612.2
777.153	BALASTO	2.405	5.18	1727.4	EXC SUELO 2	3.354	7.29	7619.5
	TERRAPLEN	0.003	0.00	4367.7				

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
CAPA DE FORMA	3181.9
EXC ROCA 1	634.5
EXC SUELO 3	2807.9
SUBBALASTO	1392.0
BALASTO	1727.4
EXC SUELO 2	7619.5
MUROS	254.0
VEGETAL	2148.7
TERRAPLEN	4367.7

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PROYECTO : VARIANTE DE OURENSE
EJE: 21: SOLUCION N-525 DESVIO 4

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	3.294	0.00	0.0	SUEL-EST3 TERR	2.701	0.00	0.0
	VEGETAL	3.150	0.00	0.0	TERRAPLEN	0.091	0.00	0.0
5.000	EXC SUELO 2	3.228	16.31	16.3	SUEL-EST3 TERR	2.701	13.50	13.5
	VEGETAL	3.191	15.85	15.9	TERRAPLEN	0.097	0.47	0.5
10.000	EXC SUELO 2	3.167	15.99	32.3	SUEL-EST3 TERR	2.701	13.50	27.0
	VEGETAL	3.210	16.00	31.9	TERRAPLEN	0.096	0.48	1.0
15.000	EXC SUELO 2	3.296	16.16	48.5	SUEL-EST3 TERR	2.701	13.51	40.5
	VEGETAL	3.222	16.08	47.9	TERRAPLEN	0.095	0.48	1.4
20.000	EXC SUELO 2	3.179	16.19	64.6	SUEL-EST3 TERR	2.700	13.50	54.0
	VEGETAL	3.191	16.03	64.0	TERRAPLEN	0.088	0.46	1.9
25.000	EXC SUELO 2	3.486	16.66	81.3	SUEL-EST3 TERR	2.701	13.50	67.5
	VEGETAL	3.204	15.99	80.0	TERRAPLEN	0.089	0.44	2.3
26.814	EXC SUELO 2	3.566	6.40	87.7	SUEL-EST3 TERR	2.700	4.90	72.4
	VEGETAL	3.215	5.82	85.8	TERRAPLEN	0.096	0.17	2.5
30.000	EXC SUELO 2	4.002	12.06	99.8	SUEL-EST3 TERR	2.701	8.60	81.0
	VEGETAL	3.233	10.27	96.0	TERRAPLEN	0.102	0.32	2.8
35.000	EXC SUELO 2	4.094	20.24	120.0	SUEL-EST3 TERR	2.701	13.50	94.5
	VEGETAL	3.244	16.19	112.2	TERRAPLEN	0.104	0.52	3.3
40.000	EXC SUELO 2	4.347	21.10	141.1	SUEL-EST3 TERR	2.701	13.50	108.0
	VEGETAL	3.251	16.24	128.5	TERRAPLEN	0.103	0.52	3.8
41.084	EXC SUELO 2	4.395	4.74	145.8	SUEL-EST3 TERR	2.701	2.93	111.0
	VEGETAL	3.250	3.52	132.0	TERRAPLEN	0.101	0.11	4.0
45.000	EXC SUELO 2	4.401	17.22	163.1	SUEL-EST3 TERR	2.701	10.58	121.5
	VEGETAL	3.231	12.69	144.7	TERRAPLEN	0.098	0.39	4.3
50.000	EXC SUELO 2	4.762	22.91	186.0	SUEL-EST3 TERR	2.701	13.51	135.0
	VEGETAL	3.185	16.04	160.7	TERRAPLEN	0.082	0.45	4.8
55.000	EXC SUELO 2	4.335	22.74	208.7	SUEL-EST3 TERR	2.701	13.51	148.5
	VEGETAL	3.159	15.86	176.6	TERRAPLEN	0.080	0.41	5.2
60.000	EXC SUELO 2	4.386	21.80	230.5	SUEL-EST3 TERR	2.701	13.50	162.1
	VEGETAL	3.160	15.80	192.4	TERRAPLEN	0.074	0.39	5.6
65.000	EXC SUELO 2	4.389	21.94	252.5	SUEL-EST3 TERR	2.701	13.51	175.6
	VEGETAL	3.174	15.83	208.2	TERRAPLEN	0.076	0.38	6.0
70.000	EXC SUELO 2	3.908	20.74	273.2	SUEL-EST3 TERR	2.701	13.50	189.1
	VEGETAL	3.170	15.86	224.1	TERRAPLEN	0.080	0.39	6.3
75.000	EXC SUELO 2	3.513	18.55	291.7	SUEL-EST3 TERR	2.701	13.50	202.6
	VEGETAL	3.185	15.89	240.0	TERRAPLEN	0.088	0.42	6.8
80.000	EXC SUELO 2	3.381	17.23	309.0	SUEL-EST3 TERR	2.701	13.50	216.1
	VEGETAL	3.168	15.88	255.9	TERRAPLEN	0.083	0.43	7.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 21: SOLUCION N-525 DESVIO 4

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
85.000	EXC SUELO 2	2.600	14.95	323.9	SUEL-EST3 TERR	2.701	13.50	229.6
	VEGETAL	3.138	15.76	271.6	TERRAPLEN	0.085	0.42	7.6
90.000	EXC SUELO 2	2.635	13.09	337.0	SUEL-EST3 TERR	2.701	13.51	243.1
	VEGETAL	3.104	15.60	287.2	TERRAPLEN	0.083	0.42	8.0
95.000	EXC SUELO 2	3.049	14.21	351.2	SUEL-EST3 TERR	2.701	13.51	256.6
	VEGETAL	3.071	15.44	302.7	TERRAPLEN	0.077	0.40	8.4
100.000	EXC SUELO 2	3.183	15.58	366.8	SUEL-EST3 TERR	2.701	13.51	270.1
	VEGETAL	3.098	15.42	318.1	TERRAPLEN	0.083	0.40	8.8
105.000	EXC SUELO 2	3.952	17.84	384.7	SUEL-EST3 TERR	2.701	13.50	283.6
	VEGETAL	3.102	15.50	333.6	TERRAPLEN	0.082	0.41	9.2
110.000	EXC SUELO 2	4.648	21.50	406.1	SUEL-EST3 TERR	2.701	13.50	297.1
	VEGETAL	3.121	15.56	349.1	TERRAPLEN	0.077	0.40	9.6
115.000	EXC SUELO 2	4.199	22.12	428.3	SUEL-EST3 TERR	2.701	13.51	310.6
	VEGETAL	3.131	15.63	364.8	TERRAPLEN	0.079	0.39	10.0
120.000	EXC SUELO 2	3.746	19.86	448.1	SUEL-EST3 TERR	2.701	13.51	324.1
	VEGETAL	3.115	15.62	380.4	TERRAPLEN	0.077	0.39	10.4
121.465	EXC SUELO 2	3.483	5.30	453.4	SUEL-EST3 TERR	2.701	3.96	328.1
	VEGETAL	3.108	4.56	384.9	TERRAPLEN	0.077	0.11	10.5
125.000	EXC SUELO 2	3.159	11.74	465.2	SUEL-EST3 TERR	2.701	9.55	337.6
	VEGETAL	3.095	10.97	395.9	TERRAPLEN	0.074	0.27	10.8
127.465	EXC SUELO 2	3.223	7.87	473.0	SUEL-EST3 TERR	2.701	6.66	344.3
	VEGETAL	3.095	7.63	403.5	TERRAPLEN	0.071	0.18	11.0
130.000	EXC SUELO 2	3.347	8.33	481.4	SUEL-EST3 TERR	2.701	6.85	351.1
	VEGETAL	3.093	7.84	411.4	TERRAPLEN	0.085	0.20	11.2
135.000	EXC SUELO 2	3.214	16.40	497.8	SUEL-EST3 TERR	2.701	13.51	364.6
	VEGETAL	3.068	15.40	426.8	TERRAPLEN	0.079	0.41	11.6
140.000	EXC SUELO 2	3.279	16.23	514.0	SUEL-EST3 TERR	2.701	13.50	378.1
	VEGETAL	3.076	15.36	442.1	TERRAPLEN	0.077	0.39	12.0
145.000	EXC SUELO 2	3.240	16.30	530.3	SUEL-EST3 TERR	2.701	13.51	391.6
	VEGETAL	3.089	15.41	457.6	TERRAPLEN	0.079	0.39	12.4
150.000	EXC SUELO 2	3.400	16.60	546.9	SUEL-EST3 TERR	2.701	13.51	405.1
	VEGETAL	3.120	15.52	473.1	TERRAPLEN	0.088	0.42	12.8
155.000	EXC SUELO 2	3.455	17.14	564.0	SUEL-EST3 TERR	2.701	13.50	418.6
	VEGETAL	3.108	15.57	488.7	TERRAPLEN	0.085	0.43	13.2
160.000	EXC SUELO 2	2.684	15.35	579.4	SUEL-EST3 TERR	2.701	13.51	432.2
	VEGETAL	3.100	15.52	504.2	TERRAPLEN	0.087	0.43	13.6
165.000	EXC SUELO 2	1.834	11.30	590.7	SUEL-EST3 TERR	2.701	13.51	445.7
	VEGETAL	3.078	15.44	519.6	TERRAPLEN	0.089	0.44	14.1

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
170.000	EXC SUELO 2	1.037	7.18	597.8	SUEL-EST3 TERR	2.743	13.61	459.3
	VEGETAL	2.972	15.12	534.7	TERRAPLEN	0.090	0.45	14.5
175.000	EXC SUELO 2	1.906	7.36	605.2	SUEL-EST3 TERR	2.701	13.61	472.9
	VEGETAL	3.070	15.10	549.8	TERRAPLEN	0.088	0.45	15.0
180.000	EXC SUELO 2	1.876	9.45	614.7	SUEL-EST3 TERR	2.721	13.56	486.4
	VEGETAL	2.945	15.04	564.9	TERRAPLEN	0.052	0.35	15.3
185.000	EXC SUELO 2	1.257	7.83	622.5	SUEL-EST3 TERR	2.743	13.66	500.1
	VEGETAL	2.973	14.80	579.7	TERRAPLEN	0.123	0.44	15.8
190.000	EXC SUELO 2	0.343	4.00	626.5	SUEL-EST3 TERR	2.764	13.77	513.9
	VEGETAL	3.038	15.03	594.7	TERRAPLEN	0.620	1.86	17.6
195.000	EXC SUELO 2	1.206	3.87	630.4	SUEL-EST3 TERR	2.701	13.66	527.5
	VEGETAL	3.054	15.23	609.9	TERRAPLEN	0.092	1.78	19.4
200.000	EXC SUELO 2	1.434	6.60	637.0	SUEL-EST3 TERR	2.719	13.55	541.1
	VEGETAL	2.931	14.96	624.9	TERRAPLEN	0.051	0.36	19.8
205.000	EXC SUELO 2	0.692	5.31	642.3	SUEL-EST3 TERR	2.754	13.68	554.8
	VEGETAL	2.943	14.69	639.6	TERRAPLEN	0.288	0.85	20.6
210.000	EXC SUELO 2	0.359	2.63	644.9	SUEL-EST3 TERR	2.760	13.78	568.5
	VEGETAL	2.962	14.76	654.3	TERRAPLEN	0.495	1.96	22.6
215.000	EXC SUELO 2	1.152	3.78	648.7	SUEL-EST3 TERR	2.764	13.81	582.4
	VEGETAL	3.059	15.05	669.4	TERRAPLEN	0.971	3.67	26.2
220.000	EXC SUELO 2	1.643	6.99	655.7	SUEL-EST3 TERR	2.701	13.66	596.0
	VEGETAL	3.033	15.23	684.6	TERRAPLEN	0.083	2.64	28.9
225.000	EXC SUELO 2	1.218	7.15	662.8	SUEL-EST3 TERR	2.736	13.59	609.6
	VEGETAL	2.971	15.01	699.6	TERRAPLEN	0.080	0.41	29.3
230.000	EXC SUELO 2	1.239	6.14	669.0	SUEL-EST3 TERR	2.764	13.75	623.4
	VEGETAL	3.116	15.22	714.9	TERRAPLEN	0.355	1.09	30.4
235.000	EXC SUELO 2	2.196	8.59	677.6	SUEL-EST3 TERR	2.764	13.82	637.2
	VEGETAL	3.239	15.89	730.7	TERRAPLEN	0.854	3.02	33.4
240.000	EXC SUELO 2	3.087	13.21	690.8	SUEL-EST3 TERR	2.764	13.82	651.0
	VEGETAL	3.382	16.55	747.3	TERRAPLEN	1.372	5.56	38.9
244.599	EXC SUELO 2	4.970	18.53	709.3	SUEL-EST3 TERR	2.765	12.71	663.7
	VEGETAL	3.510	15.85	763.1	TERRAPLEN	1.893	7.51	46.5
245.000	EXC SUELO 2	5.066	2.01	711.3	SUEL-EST3 TERR	2.764	1.11	664.8
	VEGETAL	3.513	1.41	764.6	TERRAPLEN	1.843	0.75	47.2
245.244	EXC SUELO 2	5.125	1.24	712.5	SUEL-EST3 TERR	2.764	0.67	665.5
	VEGETAL	3.511	0.86	765.4	TERRAPLEN	1.795	0.44	47.6
250.000	EXC SUELO 2	6.625	27.94	740.5	SUEL-EST3 TERR	2.762	13.14	678.6
	VEGETAL	3.341	16.29	781.7	TERRAPLEN	0.610	5.72	53.4

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
255.000	EXC SUELO 2	9.009	39.09	779.6	SUEL-EST3 TERR	2.701	13.66	692.3
	VEGETAL	3.343	16.71	798.4	TERRAPLEN	0.074	1.71	55.1
260.000	EXC SUELO 2	10.154	47.91	827.5	SUEL-EST3 TERR	2.700	13.50	705.8
	VEGETAL	3.538	17.20	815.6	TERRAPLEN	0.087	0.40	55.5
270.000	EXC SUELO 2	1.522	58.38	885.9	SUEL-EST3 TERR	2.754	27.27	733.1
	VEGETAL	4.116	38.27	853.9	TERRAPLEN	11.306	56.97	112.4
274.599	EXC SUELO 2	0.000	3.50	889.4	SUEL-EST3 TERR	2.805	12.78	745.9
	VEGETAL	6.088	23.46	877.3	TERRAPLEN	76.615	202.17	314.6
275.000	SUEL-EST3 TERR	2.805	1.12	747.0	VEGETAL	6.309	2.49	879.8
	TERRAPLEN	84.122	32.23	346.8				
280.000	EXC SUELO 2	0.819	2.05	891.4	SUEL-EST3 TERR	2.749	13.89	760.9
	VEGETAL	4.163	26.18	906.0	TERRAPLEN	13.247	243.42	590.3
285.000	EXC SUELO 2	0.065	2.21	893.6	SUEL-EST3 TERR	2.746	13.74	774.6
	VEGETAL	3.559	19.30	925.3	TERRAPLEN	8.339	53.96	644.2
287.203	EXC SUELO 2	0.000	0.07	893.7	SUEL-EST3 TERR	2.809	6.12	780.7
	VEGETAL	3.282	7.54	932.9	TERRAPLEN	9.795	19.97	664.2
290.000	SUEL-EST3 TERR	2.809	7.86	788.6	VEGETAL	3.293	9.19	942.0
	TERRAPLEN	10.009	27.70	691.9				
292.599	SUEL-EST3 TERR	2.809	7.30	795.9	VEGETAL	3.301	8.57	950.6
	TERRAPLEN	10.224	26.29	718.2				
295.000	SUEL-EST3 TERR	2.809	6.74	802.6	VEGETAL	3.308	7.93	958.5
	TERRAPLEN	10.436	24.80	743.0				
300.000	SUEL-EST3 TERR	2.809	14.04	816.7	VEGETAL	3.332	16.60	975.1
	TERRAPLEN	10.900	53.34	796.3				
305.000	SUEL-EST3 TERR	2.809	14.04	830.7	VEGETAL	3.353	16.71	991.9
	TERRAPLEN	11.363	55.66	852.0				
310.000	SUEL-EST3 TERR	2.809	14.04	844.8	VEGETAL	3.378	16.83	1008.7
	TERRAPLEN	11.841	58.01	910.0				
311.807	SUEL-EST3 TERR	2.809	5.08	849.8	VEGETAL	3.387	6.11	1014.8
	TERRAPLEN	12.013	21.55	931.6				
315.000	SUEL-EST3 TERR	2.809	8.97	858.8	VEGETAL	3.419	10.87	1025.7
	TERRAPLEN	12.370	38.93	970.5				
317.203	SUEL-EST3 TERR	2.809	6.19	865.0	VEGETAL	3.487	7.61	1033.3
	TERRAPLEN	13.317	28.29	998.8				
320.000	SUEL-EST3 TERR	2.806	7.85	872.8	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	3.433	9.68	1043.0	TERRAPLEN	12.875	36.63	1035.4
325.000	SUEL-EST3 TERR	2.806	14.03	886.9	VEGETAL	9.840	33.18	1076.1
	TERRAPLEN	254.677	668.88	1704.3				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
329.807	SUEL-EST3 TERR	2.805	13.49	900.4	VEGETAL	9.832	47.28	1123.4
	TERRAPLEN	258.419	1233.22	2937.5				
330.000	SUEL-EST3 TERR	2.805	0.54	900.9	VEGETAL	9.831	1.90	1125.3
	TERRAPLEN	258.533	49.89	2987.4				
335.000	SUEL-EST3 TERR	2.805	14.02	914.9	VEGETAL	3.494	33.31	1158.6
	TERRAPLEN	14.236	681.92	3669.3				
340.000	SUEL-EST3 TERR	2.806	14.03	929.0	VEGETAL	3.448	17.35	1176.0
	TERRAPLEN	14.129	70.91	3740.2				
345.000	SUEL-EST3 TERR	2.806	14.03	943.0	VEGETAL	3.560	17.52	1193.5
	TERRAPLEN	15.438	73.92	3814.1				
350.000	SUEL-EST3 TERR	2.808	14.04	957.0	VEGETAL	3.589	17.87	1211.4
	TERRAPLEN	15.976	78.53	3892.7				
353.807	SUEL-EST3 TERR	2.809	10.69	967.7	VEGETAL	3.603	13.69	1225.1
	TERRAPLEN	16.340	61.51	3954.2				
355.000	SUEL-EST3 TERR	2.809	3.35	971.1	VEGETAL	3.607	4.30	1229.4
	TERRAPLEN	16.448	19.56	3973.7				
360.000	SUEL-EST3 TERR	2.809	14.04	985.1	VEGETAL	8.117	29.31	1258.7
	TERRAPLEN	187.629	510.19	4483.9				
365.000	SUEL-EST3 TERR	2.809	14.04	999.1	VEGETAL	7.309	38.57	1297.2
	TERRAPLEN	128.365	789.98	5273.9				
370.000	SUEL-EST3 TERR	2.809	14.04	1013.2	VEGETAL	5.403	31.78	1329.0
	TERRAPLEN	57.859	465.56	5739.5				
380.000	EXC SUELO 2	18.487	92.44	986.1	SUEL-EST3 TERR	2.701	27.55	1040.7
	VEGETAL	4.106	47.55	1376.6	TERRAPLEN	0.097	289.78	6029.3
385.000	EXC SUELO 2	13.673	80.40	1066.5	SUEL-EST3 TERR	2.701	13.51	1054.2
	VEGETAL	3.757	19.66	1396.2	TERRAPLEN	0.091	0.47	6029.7
389.894	EXC SUELO 2	12.954	65.16	1131.7	SUEL-EST3 TERR	2.701	13.22	1067.5
	VEGETAL	3.759	18.39	1414.6	TERRAPLEN	0.093	0.45	6030.2
390.000	EXC SUELO 2	11.657	1.30	1133.0	SUEL-EST3 TERR	2.722	0.29	1067.8
	VEGETAL	3.609	0.39	1415.0	TERRAPLEN	0.070	0.01	6030.2
393.761	EXC SUELO 2	10.403	41.48	1174.5	SUEL-EST3 TERR	2.701	10.20	1077.9
	VEGETAL	3.858	14.04	1429.0	TERRAPLEN	0.103	0.32	6030.5
395.000	EXC SUELO 2	8.421	11.66	1186.1	SUEL-EST3 TERR	2.700	3.35	1081.3
	RELLEN MEDIANA	0.001	0.00	0.0	VEGETAL	3.468	4.54	1433.6
	TERRAPLEN	0.090	0.12	6030.6				
400.000	EXC SUELO 2	7.949	40.93	1227.1	SUEL-EST3 TERR	2.700	13.50	1094.8
	VEGETAL	3.442	17.27	1450.9	TERRAPLEN	0.090	0.45	6031.1

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
405.000	EXC SUELO 2	13.754	54.26	1281.3	SUEL-EST3 TERR	2.700	13.50	1108.3
	VEGETAL	4.640	20.20	1471.1	TERRAPLEN	0.110	0.50	6031.6
410.000	EXC SUELO 2	10.946	61.75	1343.1	SUEL-EST3 TERR	2.700	13.50	1121.8
	VEGETAL	4.647	23.22	1494.3	TERRAPLEN	0.128	0.59	6032.2
413.894	EXC SUELO 2	9.352	39.52	1382.6	SUEL-EST3 TERR	2.700	10.51	1132.3
	VEGETAL	4.680	18.16	1512.4	TERRAPLEN	0.134	0.51	6032.7
415.000	EXC SUELO 2	8.989	10.14	1392.7	SUEL-EST3 TERR	2.700	2.99	1135.3
	VEGETAL	4.645	5.16	1517.6	TERRAPLEN	0.126	0.14	6032.8
417.761	EXC SUELO 2	7.884	23.29	1416.0	SUEL-EST3 TERR	2.700	7.46	1142.8
	VEGETAL	4.588	12.75	1530.3	TERRAPLEN	0.118	0.34	6033.2
420.000	EXC SUELO 2	6.782	16.42	1432.4	SUEL-EST3 TERR	2.700	6.05	1148.8
	VEGETAL	4.521	10.20	1540.5	TERRAPLEN	0.163	0.31	6033.5
425.000	EXC SUELO 2	5.088	29.67	1462.1	SUEL-EST3 TERR	2.701	13.50	1162.3
	VEGETAL	3.344	19.66	1560.2	TERRAPLEN	0.096	0.65	6034.1
430.000	EXC SUELO 2	5.385	26.18	1488.3	SUEL-EST3 TERR	2.701	13.50	1175.8
	VEGETAL	3.328	16.68	1576.9	TERRAPLEN	0.090	0.46	6034.6
431.101	EXC SUELO 2	5.565	6.03	1494.3	SUEL-EST3 TERR	2.701	2.97	1178.8
	VEGETAL	3.327	3.66	1580.6	TERRAPLEN	0.090	0.10	6034.7
433.894	EXC SUELO 2	5.665	15.68	1510.0	SUEL-EST3 TERR	2.701	7.54	1186.3
	VEGETAL	3.326	9.29	1589.8	TERRAPLEN	0.091	0.25	6035.0
435.000	EXC SUELO 2	5.654	6.26	1516.3	SUEL-EST3 TERR	2.701	2.99	1189.3
	VEGETAL	3.322	3.68	1593.5	TERRAPLEN	0.091	0.10	6035.1
440.000	EXC SUELO 2	5.162	27.04	1543.3	SUEL-EST3 TERR	2.701	13.51	1202.8
	VEGETAL	3.295	16.54	1610.1	TERRAPLEN	0.091	0.46	6035.5
445.000	EXC SUELO 2	4.874	25.09	1568.4	SUEL-EST3 TERR	2.701	13.51	1216.3
	VEGETAL	3.293	16.47	1626.5	TERRAPLEN	0.093	0.46	6036.0
449.273	EXC SUELO 2	4.501	20.03	1588.4	SUEL-EST3 TERR	2.701	11.54	1227.9
	VEGETAL	3.249	13.98	1640.5	TERRAPLEN	0.091	0.39	6036.4
450.000	EXC SUELO 2	4.433	3.25	1591.7	SUEL-EST3 TERR	2.701	1.96	1229.8
	VEGETAL	3.239	2.36	1642.9	TERRAPLEN	0.090	0.07	6036.4
455.000	EXC SUELO 2	4.444	22.19	1613.9	SUEL-EST3 TERR	2.701	13.51	1243.3
	VEGETAL	3.251	16.23	1659.1	TERRAPLEN	0.091	0.45	6036.9
460.000	EXC SUELO 2	5.336	24.45	1638.3	SUEL-EST3 TERR	2.700	13.50	1256.8
	RELLEN MEDIANA	0.001	0.00	0.0	VEGETAL	3.321	16.43	1675.5
	TERRAPLEN	0.091	0.45	6037.3				
461.101	EXC SUELO 2	5.462	5.94	1644.2	SUEL-EST3 TERR	2.701	2.97	1259.8
	VEGETAL	3.321	3.66	1679.2	TERRAPLEN	0.089	0.10	6037.4

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
465.000	EXC SUELO 2	5.655	21.67	1665.9	SUEL-EST3 TERR	2.700	10.53	1270.3
	VEGETAL	3.323	12.95	1692.1	TERRAPLEN	0.089	0.35	6037.8
466.873	EXC SUELO 2	5.751	10.68	1676.6	SUEL-EST3 TERR	2.700	5.06	1275.4
	VEGETAL	3.325	6.23	1698.4	TERRAPLEN	0.089	0.17	6037.9
470.000	EXC SUELO 2	5.924	18.25	1694.9	SUEL-EST3 TERR	2.700	8.44	1283.8
	VEGETAL	3.329	10.40	1708.8	TERRAPLEN	0.089	0.28	6038.2
472.042	EXC SUELO 2	6.029	12.20	1707.1	SUEL-EST3 TERR	2.700	5.51	1289.4
	VEGETAL	3.332	6.80	1715.6	TERRAPLEN	0.089	0.18	6038.4
475.000	EXC SUELO 2	6.174	18.05	1725.1	SUEL-EST3 TERR	2.700	7.99	1297.3
	VEGETAL	3.334	9.86	1725.4	TERRAPLEN	0.089	0.26	6038.7
480.000	EXC SUELO 2	6.335	31.27	1756.4	SUEL-EST3 TERR	2.701	13.50	1310.8
	VEGETAL	3.337	16.68	1742.1	TERRAPLEN	0.089	0.45	6039.1
485.000	EXC SUELO 2	5.935	30.67	1787.1	SUEL-EST3 TERR	2.700	13.50	1324.3
	VEGETAL	3.330	16.67	1758.8	TERRAPLEN	0.090	0.45	6039.6
490.000	EXC SUELO 2	5.214	27.87	1814.9	SUEL-EST3 TERR	2.701	13.50	1337.8
	VEGETAL	3.305	16.59	1775.4	TERRAPLEN	0.089	0.45	6040.0
494.417	EXC SUELO 2	4.501	21.45	1836.4	SUEL-EST3 TERR	2.700	11.93	1349.8
	VEGETAL	3.264	14.51	1789.9	TERRAPLEN	0.089	0.39	6040.4

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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	1836.4
SUEL-EST3 TERR	1349.8
VEGETAL	1789.9
TERRAPLEN	6040.4

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	3.189	0.00	0.0	SUEL-EST3 TERR	2.695	0.00	0.0
	VEGETAL	3.138	0.00	0.0	TERRAPLEN	0.091	0.00	0.0
5.000	EXC SUELO 2	3.135	15.81	15.8	SUEL-EST3 TERR	2.695	13.47	13.5
	VEGETAL	3.179	15.79	15.8	TERRAPLEN	0.098	0.47	0.5
10.000	EXC SUELO 2	3.094	15.57	31.4	SUEL-EST3 TERR	2.695	13.47	26.9
	VEGETAL	3.198	15.94	31.7	TERRAPLEN	0.095	0.48	1.0
15.000	EXC SUELO 2	3.245	15.85	47.2	SUEL-EST3 TERR	2.695	13.47	40.4
	VEGETAL	3.210	16.02	47.8	TERRAPLEN	0.093	0.47	1.4
20.000	EXC SUELO 2	3.157	16.00	63.2	SUEL-EST3 TERR	2.695	13.47	53.9
	VEGETAL	3.182	15.98	63.7	TERRAPLEN	0.088	0.45	1.9
24.091	EXC SUELO 2	3.451	13.52	76.8	SUEL-EST3 TERR	2.695	11.02	64.9
	VEGETAL	3.193	13.04	76.8	TERRAPLEN	0.088	0.36	2.2
25.000	EXC SUELO 2	3.481	3.15	79.9	SUEL-EST3 TERR	2.695	2.45	67.4
	VEGETAL	3.195	2.90	79.7	TERRAPLEN	0.088	0.08	2.3
30.000	EXC SUELO 2	4.011	18.73	98.6	SUEL-EST3 TERR	2.695	13.47	80.8
	VEGETAL	3.223	16.05	95.7	TERRAPLEN	0.101	0.47	2.8
35.000	EXC SUELO 2	4.111	20.30	118.9	SUEL-EST3 TERR	2.695	13.47	94.3
	VEGETAL	3.235	16.14	111.9	TERRAPLEN	0.103	0.51	3.3
38.362	EXC SUELO 2	4.275	14.10	133.0	SUEL-EST3 TERR	2.695	9.06	103.4
	VEGETAL	3.242	10.89	122.8	TERRAPLEN	0.104	0.35	3.6
40.000	EXC SUELO 2	4.359	7.07	140.1	SUEL-EST3 TERR	2.695	4.41	107.8
	VEGETAL	3.245	5.31	128.1	TERRAPLEN	0.104	0.17	3.8
45.000	EXC SUELO 2	4.403	21.90	162.0	SUEL-EST3 TERR	2.695	13.48	121.3
	VEGETAL	3.228	16.18	144.3	TERRAPLEN	0.098	0.50	4.3
50.000	EXC SUELO 2	4.749	22.88	184.9	SUEL-EST3 TERR	2.695	13.47	134.7
	VEGETAL	3.179	16.02	160.3	TERRAPLEN	0.082	0.45	4.8
55.000	EXC SUELO 2	4.303	22.63	207.5	SUEL-EST3 TERR	2.695	13.47	148.2
	VEGETAL	3.154	15.83	176.1	TERRAPLEN	0.080	0.41	5.2
60.000	EXC SUELO 2	4.353	21.64	229.2	SUEL-EST3 TERR	2.695	13.47	161.7
	VEGETAL	3.156	15.78	191.9	TERRAPLEN	0.076	0.39	5.6
65.000	EXC SUELO 2	4.364	21.79	251.0	SUEL-EST3 TERR	2.695	13.47	175.2
	VEGETAL	3.167	15.81	207.7	TERRAPLEN	0.080	0.39	6.0
70.000	EXC SUELO 2	3.886	20.63	271.6	SUEL-EST3 TERR	2.695	13.47	188.6
	VEGETAL	3.156	15.81	223.5	TERRAPLEN	0.079	0.40	6.4
75.000	EXC SUELO 2	3.465	18.38	290.0	SUEL-EST3 TERR	2.695	13.47	202.1
	VEGETAL	3.176	15.83	239.3	TERRAPLEN	0.088	0.42	6.8
80.000	EXC SUELO 2	3.313	16.94	306.9	SUEL-EST3 TERR	2.695	13.48	215.6
	VEGETAL	3.153	15.82	255.1	TERRAPLEN	0.082	0.43	7.2

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
85.000	EXC SUELO 2	2.485	14.49	321.4	SUEL-EST3 TERR	2.695	13.48	229.1
	VEGETAL	3.103	15.64	270.8	TERRAPLEN	0.086	0.42	7.6
90.000	EXC SUELO 2	2.511	12.49	333.9	SUEL-EST3 TERR	2.695	13.48	242.5
	VEGETAL	3.071	15.44	286.2	TERRAPLEN	0.083	0.42	8.0
95.000	EXC SUELO 2	2.943	13.63	347.5	SUEL-EST3 TERR	2.695	13.48	256.0
	VEGETAL	3.058	15.32	301.5	TERRAPLEN	0.081	0.41	8.5
100.000	EXC SUELO 2	3.096	15.10	362.6	SUEL-EST3 TERR	2.695	13.48	269.5
	VEGETAL	3.077	15.34	316.9	TERRAPLEN	0.083	0.41	8.9
105.000	EXC SUELO 2	3.840	17.34	380.0	SUEL-EST3 TERR	2.695	13.48	283.0
	VEGETAL	3.083	15.40	332.3	TERRAPLEN	0.081	0.41	9.3
110.000	EXC SUELO 2	4.452	20.73	400.7	SUEL-EST3 TERR	2.695	13.48	296.4
	VEGETAL	3.081	15.41	347.7	TERRAPLEN	0.075	0.39	9.7
115.000	EXC SUELO 2	3.997	21.12	421.8	SUEL-EST3 TERR	2.695	13.47	309.9
	VEGETAL	3.085	15.41	363.1	TERRAPLEN	0.079	0.39	10.0
120.000	EXC SUELO 2	3.546	18.86	440.7	SUEL-EST3 TERR	2.695	13.47	323.4
	VEGETAL	3.062	15.37	378.5	TERRAPLEN	0.079	0.40	10.4
125.000	EXC SUELO 2	2.960	16.26	456.9	SUEL-EST3 TERR	2.695	13.47	336.9
	VEGETAL	3.051	15.28	393.8	TERRAPLEN	0.074	0.38	10.8
130.000	EXC SUELO 2	3.118	15.19	472.1	SUEL-EST3 TERR	2.695	13.47	350.3
	VEGETAL	3.059	15.28	409.0	TERRAPLEN	0.073	0.37	11.2
135.000	EXC SUELO 2	3.011	15.32	487.4	SUEL-EST3 TERR	2.695	13.47	363.8
	VEGETAL	3.026	15.21	424.2	TERRAPLEN	0.079	0.38	11.6
140.000	EXC SUELO 2	3.128	15.35	502.8	SUEL-EST3 TERR	2.695	13.47	377.3
	VEGETAL	3.058	15.21	439.5	TERRAPLEN	0.087	0.41	12.0
145.000	EXC SUELO 2	3.282	16.02	518.8	SUEL-EST3 TERR	2.695	13.47	390.8
	VEGETAL	3.078	15.34	454.8	TERRAPLEN	0.081	0.42	12.4
150.000	EXC SUELO 2	3.543	17.06	535.9	SUEL-EST3 TERR	2.695	13.47	404.2
	VEGETAL	3.131	15.52	470.3	TERRAPLEN	0.085	0.41	12.8
155.000	EXC SUELO 2	3.743	18.21	554.1	SUEL-EST3 TERR	2.695	13.47	417.7
	VEGETAL	3.120	15.63	486.0	TERRAPLEN	0.085	0.42	13.2
160.000	EXC SUELO 2	3.138	17.20	571.3	SUEL-EST3 TERR	2.695	13.48	431.2
	VEGETAL	3.119	15.60	501.5	TERRAPLEN	0.085	0.43	13.7
165.000	EXC SUELO 2	2.487	14.06	585.3	SUEL-EST3 TERR	2.695	13.47	444.7
	VEGETAL	3.114	15.58	517.1	TERRAPLEN	0.085	0.43	14.1
170.000	EXC SUELO 2	2.083	11.43	596.8	SUEL-EST3 TERR	2.695	13.47	458.1
	VEGETAL	3.096	15.53	532.7	TERRAPLEN	0.083	0.42	14.5
175.000	EXC SUELO 2	3.197	13.20	610.0	SUEL-EST3 TERR	2.695	13.47	471.6
	VEGETAL	3.119	15.54	548.2	TERRAPLEN	0.088	0.43	14.9

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
180.000	EXC SUELO 2	3.270	16.17	626.1	SUEL-EST3 TERR	2.695	13.47	485.1
	VEGETAL	3.082	15.50	563.7	TERRAPLEN	0.084	0.43	15.4
185.000	EXC SUELO 2	2.652	14.81	640.9	SUEL-EST3 TERR	2.695	13.47	498.6
	VEGETAL	3.087	15.42	579.1	TERRAPLEN	0.083	0.42	15.8
190.000	EXC SUELO 2	1.300	9.88	650.8	SUEL-EST3 TERR	2.695	13.47	512.0
	VEGETAL	3.064	15.38	594.5	TERRAPLEN	0.086	0.42	16.2
195.000	EXC SUELO 2	1.362	6.66	657.5	SUEL-EST3 TERR	2.695	13.47	525.5
	VEGETAL	3.038	15.25	609.8	TERRAPLEN	0.090	0.44	16.7
200.000	EXC SUELO 2	0.760	5.31	662.8	SUEL-EST3 TERR	2.695	13.48	539.0
	VEGETAL	2.971	15.02	624.8	TERRAPLEN	0.088	0.44	17.1
205.000	EXC SUELO 2	0.000	1.90	664.7	SUEL-EST3 TERR	2.767	13.66	552.6
	VEGETAL	2.785	14.39	639.2	TERRAPLEN	0.868	2.39	19.5
210.000	SUEL-EST3 TERR	2.782	13.87	566.5	VEGETAL	2.825	14.03	653.2
	TERRAPLEN	2.040	7.27	26.8				
214.662	SUEL-EST3 TERR	2.798	13.01	579.5	VEGETAL	2.898	13.34	666.5
	TERRAPLEN	2.265	10.03	36.8				
215.000	SUEL-EST3 TERR	2.798	0.95	580.5	VEGETAL	2.904	0.98	667.5
	TERRAPLEN	2.310	0.77	37.6				
220.000	SUEL-EST3 TERR	2.797	13.99	594.4	RELLEN MEDIANA	0.001	0.00	0.0
	VEGETAL	2.929	14.58	682.1	TERRAPLEN	3.141	13.63	51.2
225.000	SUEL-EST3 TERR	2.792	13.97	608.4	VEGETAL	2.951	14.70	696.8
	TERRAPLEN	4.083	18.06	69.3				
230.000	SUEL-EST3 TERR	2.790	13.96	622.4	VEGETAL	3.013	14.91	711.7
	TERRAPLEN	4.876	22.40	91.6				
231.804	SUEL-EST3 TERR	2.794	5.04	627.4	VEGETAL	3.032	5.45	717.2
	TERRAPLEN	4.903	8.82	100.5				
235.000	SUEL-EST3 TERR	2.799	8.94	636.4	VEGETAL	3.109	9.81	727.0
	TERRAPLEN	5.508	16.64	117.1				
238.662	SUEL-EST3 TERR	2.802	10.25	646.6	VEGETAL	3.135	11.43	738.4
	TERRAPLEN	5.831	20.76	137.9				
240.000	SUEL-EST3 TERR	2.803	3.75	650.4	VEGETAL	3.162	4.21	742.6
	TERRAPLEN	5.999	7.91	145.8				
245.000	SUEL-EST3 TERR	2.807	14.02	664.4	VEGETAL	3.135	15.74	758.4
	TERRAPLEN	6.322	30.80	176.6				
245.519	SUEL-EST3 TERR	2.807	1.46	665.8	VEGETAL	3.117	1.62	760.0
	TERRAPLEN	6.268	3.27	179.8				
250.000	SUEL-EST3 TERR	2.807	12.58	678.4	VEGETAL	3.086	13.90	773.9
	TERRAPLEN	6.347	28.27	208.1				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
255.000	SUEL-EST3 TERR	2.808	14.04	692.5	VEGETAL	3.081	15.42	789.3
	TERRAPLEN	6.498	32.11	240.2				
260.000	SUEL-EST3 TERR	2.808	14.04	706.5	VEGETAL	3.123	15.51	804.8
	TERRAPLEN	7.565	35.16	275.4				
265.000	SUEL-EST3 TERR	2.807	14.04	720.5	VEGETAL	3.143	15.67	820.5
	TERRAPLEN	7.525	37.72	313.1				
270.000	SUEL-EST3 TERR	2.807	14.04	734.6	VEGETAL	3.122	15.66	836.1
	TERRAPLEN	7.184	36.77	349.9				
275.000	EXC SUELO 2	0.173	0.43	665.1	SUEL-EST3 TERR	2.754	13.90	748.5
	VEGETAL	3.148	15.67	851.8	TERRAPLEN	4.577	29.40	379.3
280.000	EXC SUELO 2	0.000	0.43	665.6	SUEL-EST3 TERR	2.807	13.90	762.4
	VEGETAL	3.140	15.72	867.5	TERRAPLEN	6.483	27.65	406.9
285.000	SUEL-EST3 TERR	2.807	14.04	776.4	VEGETAL	3.100	15.60	883.1
	TERRAPLEN	7.207	34.23	441.2				
290.000	EXC SUELO 2	0.096	0.24	665.8	SUEL-EST3 TERR	2.754	13.90	790.3
	VEGETAL	3.300	16.00	899.1	TERRAPLEN	6.813	35.05	476.2
295.000	EXC SUELO 2	2.057	5.38	671.2	SUEL-EST3 TERR	2.754	13.77	804.1
	VEGETAL	3.397	16.74	915.9	TERRAPLEN	4.504	28.29	504.5
300.000	EXC SUELO 2	4.105	15.40	686.6	SUEL-EST3 TERR	2.754	13.77	817.8
	VEGETAL	3.275	16.68	932.5	TERRAPLEN	0.295	12.00	516.5
305.000	EXC SUELO 2	6.242	25.87	712.4	SUEL-EST3 TERR	2.700	13.63	831.5
	VEGETAL	3.496	16.93	949.5	TERRAPLEN	0.098	0.98	517.5
307.292	EXC SUELO 2	4.347	12.13	724.6	SUEL-EST3 TERR	2.752	6.25	837.7
	VEGETAL	3.387	7.89	957.4	TERRAPLEN	0.354	0.52	518.0
310.000	EXC SUELO 2	1.950	8.53	733.1	SUEL-EST3 TERR	2.751	7.45	845.2
	VEGETAL	3.231	8.96	966.3	TERRAPLEN	1.075	1.93	519.9
310.506	EXC SUELO 2	1.704	0.92	734.0	SUEL-EST3 TERR	2.751	1.39	846.6
	VEGETAL	3.196	1.63	967.9	TERRAPLEN	1.173	0.57	520.5
313.721	EXC SUELO 2	0.362	3.32	737.4	SUEL-EST3 TERR	2.748	8.84	855.4
	VEGETAL	3.043	10.03	978.0	TERRAPLEN	1.476	4.26	524.8
315.000	EXC SUELO 2	0.144	0.32	737.7	SUEL-EST3 TERR	2.749	3.52	858.9
	VEGETAL	2.981	3.85	981.8	TERRAPLEN	1.182	1.70	526.5
320.000	EXC SUELO 2	2.049	5.48	743.2	SUEL-EST3 TERR	2.695	13.61	872.5
	VEGETAL	3.159	15.35	997.2	TERRAPLEN	0.099	3.20	529.7
321.756	EXC SUELO 2	10.623	11.13	754.3	SUEL-EST3 TERR	2.695	4.73	877.3
	VEGETAL	4.430	6.66	1003.8	TERRAPLEN	0.205	0.27	529.9
325.000	EXC SUELO 2	63.795	120.71	875.0	SUEL-EST3 TERR	2.695	8.74	886.0
	VEGETAL	6.082	17.05	1020.9	TERRAPLEN	0.096	0.49	530.4

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
330.000	EXC SUELO 2	68.596	330.98	1206.0	SUEL-EST3 TERR	2.695	13.47	899.5
	VEGETAL	5.708	29.47	1050.4	TERRAPLEN	0.103	0.50	530.9
335.000	EXC SUELO 2	52.714	303.28	1509.2	SUEL-EST3 TERR	2.695	13.48	913.0
	VEGETAL	5.388	27.74	1078.1	TERRAPLEN	0.086	0.47	531.4
340.000	EXC SUELO 2	38.520	228.09	1737.3	SUEL-EST3 TERR	2.695	13.48	926.4
	VEGETAL	4.921	25.77	1103.9	TERRAPLEN	0.097	0.46	531.8
345.000	EXC SUELO 2	25.567	160.22	1897.5	SUEL-EST3 TERR	2.695	13.47	939.9
	VEGETAL	4.464	23.46	1127.3	TERRAPLEN	0.091	0.47	532.3
350.000	EXC SUELO 2	13.461	97.57	1995.1	SUEL-EST3 TERR	2.695	13.47	953.4
	VEGETAL	3.939	21.01	1148.3	TERRAPLEN	0.090	0.45	532.8
355.000	EXC SUELO 2	7.418	52.20	2047.3	SUEL-EST3 TERR	2.695	13.47	966.9
	VEGETAL	3.447	18.46	1166.8	TERRAPLEN	0.089	0.45	533.2
360.000	EXC SUELO 2	8.396	39.54	2086.9	SUEL-EST3 TERR	2.695	13.48	980.3
	VEGETAL	3.481	17.32	1184.1	TERRAPLEN	0.091	0.45	533.7
365.000	EXC SUELO 2	10.430	47.06	2133.9	SUEL-EST3 TERR	2.695	13.48	993.8
	VEGETAL	3.520	17.50	1201.6	TERRAPLEN	0.088	0.45	534.1
370.000	EXC SUELO 2	6.878	43.27	2177.2	SUEL-EST3 TERR	2.695	13.47	1007.3
	VEGETAL	3.269	16.97	1218.6	TERRAPLEN	0.087	0.44	534.5
375.000	EXC SUELO 2	2.106	22.46	2199.6	SUEL-EST3 TERR	2.695	13.47	1020.8
	VEGETAL	3.120	15.97	1234.6	TERRAPLEN	0.090	0.44	535.0
380.000	EXC SUELO 2	1.625	9.33	2209.0	SUEL-EST3 TERR	2.726	13.55	1034.3
	VEGETAL	3.126	15.62	1250.2	TERRAPLEN	0.111	0.50	535.5
385.000	EXC SUELO 2	10.148	29.43	2238.4	SUEL-EST3 TERR	2.710	13.59	1047.9
	VEGETAL	3.640	16.92	1267.1	TERRAPLEN	0.053	0.41	535.9
390.000	EXC SUELO 2	17.399	68.87	2307.3	SUEL-EST3 TERR	2.695	13.51	1061.4
	VEGETAL	3.923	18.91	1286.0	TERRAPLEN	0.087	0.35	536.3
395.000	EXC SUELO 2	28.236	114.09	2421.4	SUEL-EST3 TERR	2.695	13.47	1074.9
	VEGETAL	4.068	19.98	1306.0	TERRAPLEN	0.079	0.41	536.7
400.000	EXC SUELO 2	38.632	167.17	2588.5	SUEL-EST3 TERR	2.695	13.47	1088.4
	VEGETAL	4.302	20.92	1326.9	TERRAPLEN	0.074	0.38	537.1
405.000	EXC SUELO 2	43.678	205.77	2794.3	SUEL-EST3 TERR	2.695	13.47	1101.8
	VEGETAL	4.487	21.97	1348.9	TERRAPLEN	0.069	0.36	537.4
405.737	EXC SUELO 2	43.747	32.22	2826.5	SUEL-EST3 TERR	2.695	1.99	1103.8
	VEGETAL	4.488	3.31	1352.2	TERRAPLEN	0.074	0.05	537.5
405.756	EXC SUELO 2	43.746	0.83	2827.4	SUEL-EST3 TERR	2.695	0.05	1103.9
	VEGETAL	4.488	0.09	1352.3	TERRAPLEN	0.074	0.00	537.5
410.000	EXC SUELO 2	46.782	192.10	3019.5	SUEL-EST3 TERR	2.694	11.44	1115.3
	VEGETAL	4.654	19.40	1371.7	TERRAPLEN	0.083	0.33	537.8

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
415.000	EXC SUELO 2	49.559	240.85	3260.3	SUEL-EST3 TERR	2.694	13.47	1128.8
	VEGETAL	4.785	23.60	1395.3	TERRAPLEN	0.083	0.42	538.2
416.987	EXC SUELO 2	50.120	99.03	3359.3	SUEL-EST3 TERR	2.694	5.35	1134.1
	VEGETAL	4.850	9.57	1404.8	TERRAPLEN	0.089	0.17	538.4
417.006	EXC SUELO 2	50.113	0.95	3360.3	SUEL-EST3 TERR	2.694	0.05	1134.2
	VEGETAL	4.850	0.09	1404.9	TERRAPLEN	0.089	0.00	538.4
420.000	EXC SUELO 2	49.059	148.46	3508.8	SUEL-EST3 TERR	2.694	8.07	1142.2
	VEGETAL	4.948	14.67	1419.6	TERRAPLEN	0.084	0.26	538.6
425.000	EXC SUELO 2	47.074	240.33	3749.1	SUEL-EST3 TERR	2.695	13.47	1155.7
	VEGETAL	4.863	24.53	1444.1	TERRAPLEN	0.083	0.42	539.1
429.844	EXC SUELO 2	40.849	212.95	3962.0	SUEL-EST3 TERR	2.736	13.15	1168.9
	VEGETAL	4.513	22.71	1466.8	TERRAPLEN	0.117	0.49	539.6
429.863	EXC SUELO 2	40.811	0.78	3962.8	SUEL-EST3 TERR	2.735	0.05	1168.9
	VEGETAL	4.514	0.09	1466.9	TERRAPLEN	0.120	0.00	539.6
430.000	EXC SUELO 2	40.506	5.57	3968.4	SUEL-EST3 TERR	2.736	0.37	1169.3
	VEGETAL	4.512	0.62	1467.6	TERRAPLEN	0.137	0.02	539.6
435.000	EXC SUELO 2	29.913	176.05	4144.4	SUEL-EST3 TERR	2.731	13.67	1183.0
	VEGETAL	4.444	22.39	1489.9	TERRAPLEN	0.320	1.14	540.7
440.000	EXC SUELO 2	20.742	126.64	4271.1	SUEL-EST3 TERR	2.708	13.60	1196.6
	VEGETAL	4.348	21.98	1511.9	TERRAPLEN	0.083	1.01	541.7
445.000	EXC SUELO 2	11.576	80.79	4351.9	SUEL-EST3 TERR	2.695	13.51	1210.1
	VEGETAL	4.296	21.61	1533.5	TERRAPLEN	0.092	0.44	542.2
450.000	EXC SUELO 2	5.853	43.57	4395.4	SUEL-EST3 TERR	2.695	13.47	1223.5
	VEGETAL	4.038	20.84	1554.4	TERRAPLEN	0.109	0.50	542.7
455.000	EXC SUELO 2	4.843	26.74	4422.2	SUEL-EST3 TERR	2.695	13.47	1237.0
	VEGETAL	3.294	18.33	1572.7	TERRAPLEN	0.094	0.51	543.2
460.000	EXC SUELO 2	5.399	25.60	4447.8	SUEL-EST3 TERR	2.695	13.47	1250.5
	VEGETAL	3.304	16.49	1589.2	TERRAPLEN	0.091	0.46	543.6
465.000	EXC SUELO 2	5.092	26.23	4474.0	SUEL-EST3 TERR	2.695	13.47	1264.0
	VEGETAL	3.291	16.49	1605.7	TERRAPLEN	0.092	0.46	544.1
467.921	EXC SUELO 2	4.931	14.64	4488.6	SUEL-EST3 TERR	2.695	7.87	1271.8
	VEGETAL	3.287	9.61	1615.3	TERRAPLEN	0.093	0.27	544.4
467.974	EXC SUELO 2	4.929	0.26	4488.9	SUEL-EST3 TERR	2.695	0.14	1272.0
	VEGETAL	3.286	0.17	1615.5	TERRAPLEN	0.092	0.00	544.4
470.000	EXC SUELO 2	4.777	9.83	4498.7	SUEL-EST3 TERR	2.695	5.46	1277.4
	VEGETAL	3.282	6.65	1622.1	TERRAPLEN	0.091	0.19	544.5
475.000	EXC SUELO 2	4.267	22.61	4521.3	SUEL-EST3 TERR	2.695	13.47	1290.9
	VEGETAL	3.222	16.26	1638.4	TERRAPLEN	0.090	0.45	545.0

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
480.000	EXC SUELO 2	4.324	21.48	4542.8	SUEL-EST3 TERR	2.694	13.47	1304.4
	VEGETAL	3.243	16.16	1654.5	TERRAPLEN	0.091	0.45	545.5
480.178	EXC SUELO 2	4.363	0.77	4543.6	SUEL-EST3 TERR	2.694	0.48	1304.9
	VEGETAL	3.245	0.58	1655.1	TERRAPLEN	0.091	0.02	545.5
480.231	EXC SUELO 2	4.374	0.23	4543.8	SUEL-EST3 TERR	2.694	0.14	1305.0
	VEGETAL	3.246	0.17	1655.3	TERRAPLEN	0.091	0.00	545.5
485.000	EXC SUELO 2	5.240	22.92	4566.8	SUEL-EST3 TERR	2.694	12.85	1317.9
	VEGETAL	3.306	15.62	1670.9	TERRAPLEN	0.089	0.43	545.9
490.000	EXC SUELO 2	5.551	26.98	4593.7	SUEL-EST3 TERR	2.694	13.47	1331.3
	VEGETAL	3.311	16.54	1687.5	TERRAPLEN	0.089	0.44	546.4
495.000	EXC SUELO 2	5.824	28.44	4622.2	SUEL-EST3 TERR	2.694	13.47	1344.8
	VEGETAL	3.318	16.57	1704.0	TERRAPLEN	0.089	0.45	546.8
500.000	EXC SUELO 2	6.075	29.75	4651.9	SUEL-EST3 TERR	2.694	13.47	1358.3
	VEGETAL	3.323	16.60	1720.6	TERRAPLEN	0.090	0.45	547.2
505.000	EXC SUELO 2	6.213	30.72	4682.6	SUEL-EST3 TERR	2.694	13.47	1371.7
	VEGETAL	3.324	16.62	1737.2	TERRAPLEN	0.088	0.45	547.7
510.000	EXC SUELO 2	5.761	29.93	4712.6	SUEL-EST3 TERR	2.694	13.47	1385.2
	VEGETAL	3.316	16.60	1753.8	TERRAPLEN	0.090	0.45	548.1
515.000	EXC SUELO 2	5.045	27.01	4739.6	SUEL-EST3 TERR	2.694	13.47	1398.7
	VEGETAL	3.290	16.52	1770.4	TERRAPLEN	0.089	0.45	548.6
519.080	EXC SUELO 2	4.389	19.25	4758.8	SUEL-EST3 TERR	2.694	10.99	1409.7
	VEGETAL	3.252	13.35	1783.7	TERRAPLEN	0.089	0.36	548.9

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PROYECTO : VARIANTE DE OURENSE
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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	4758.8
SUEL-EST3 TERR	1409.7
VEGETAL	1783.7
TERRAPLEN	548.9

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	3.189	0.00	0.0	SUEL-EST3 TERR	2.695	0.00	0.0
	VEGETAL	3.138	0.00	0.0	TERRAPLEN	0.091	0.00	0.0
5.000	EXC SUELO 2	3.127	15.79	15.8	SUEL-EST3 TERR	2.700	13.49	13.5
	VEGETAL	3.184	15.80	15.8	TERRAPLEN	0.098	0.47	0.5
10.000	EXC SUELO 2	3.069	15.49	31.3	SUEL-EST3 TERR	2.704	13.51	27.0
	VEGETAL	3.208	15.98	31.8	TERRAPLEN	0.095	0.48	1.0
10.323	EXC SUELO 2	3.083	0.99	32.3	SUEL-EST3 TERR	2.705	0.87	27.9
	VEGETAL	3.209	1.04	32.8	TERRAPLEN	0.095	0.03	1.0
15.000	EXC SUELO 2	3.212	14.72	47.0	SUEL-EST3 TERR	2.717	12.68	40.6
	VEGETAL	3.233	15.06	47.9	TERRAPLEN	0.095	0.45	1.4
19.586	EXC SUELO 2	3.124	14.53	61.5	SUEL-EST3 TERR	2.728	12.48	53.0
	VEGETAL	3.214	14.78	62.7	TERRAPLEN	0.088	0.42	1.9
20.000	EXC SUELO 2	3.107	1.29	62.8	SUEL-EST3 TERR	2.728	1.13	54.2
	VEGETAL	3.211	1.33	64.0	TERRAPLEN	0.088	0.04	1.9
21.103	EXC SUELO 2	3.171	3.46	66.3	SUEL-EST3 TERR	2.727	3.01	57.2
	VEGETAL	3.214	3.54	67.5	TERRAPLEN	0.088	0.10	2.0
25.000	EXC SUELO 2	3.409	12.82	79.1	SUEL-EST3 TERR	2.726	10.62	67.8
	VEGETAL	3.222	12.54	80.1	TERRAPLEN	0.089	0.34	2.3
27.423	EXC SUELO 2	3.677	8.58	87.7	SUEL-EST3 TERR	2.724	6.60	74.4
	VEGETAL	3.236	7.82	87.9	TERRAPLEN	0.095	0.22	2.6
30.000	EXC SUELO 2	3.906	9.77	97.4	SUEL-EST3 TERR	2.720	7.02	81.4
	VEGETAL	3.246	8.35	96.3	TERRAPLEN	0.102	0.25	2.8
32.714	EXC SUELO 2	3.963	10.68	108.1	SUEL-EST3 TERR	2.715	7.38	88.8
	VEGETAL	3.247	8.81	105.1	TERRAPLEN	0.103	0.28	3.1
35.000	EXC SUELO 2	3.967	9.06	117.2	SUEL-EST3 TERR	2.710	6.20	95.0
	VEGETAL	3.244	7.42	112.5	TERRAPLEN	0.104	0.24	3.3
39.245	EXC SUELO 2	4.167	17.26	134.5	SUEL-EST3 TERR	2.702	11.49	106.5
	VEGETAL	3.241	13.77	126.3	TERRAPLEN	0.104	0.44	3.8
40.000	EXC SUELO 2	4.190	3.15	137.6	SUEL-EST3 TERR	2.703	2.04	108.5
	VEGETAL	3.242	2.45	128.7	TERRAPLEN	0.104	0.08	3.8
45.000	EXC SUELO 2	4.240	21.07	158.7	SUEL-EST3 TERR	2.704	13.52	122.0
	VEGETAL	3.223	16.16	144.9	TERRAPLEN	0.098	0.50	4.3
46.165	EXC SUELO 2	4.273	4.96	163.6	SUEL-EST3 TERR	2.705	3.15	125.2
	VEGETAL	3.217	3.75	148.6	TERRAPLEN	0.098	0.11	4.5
46.472	EXC SUELO 2	4.279	1.31	165.0	SUEL-EST3 TERR	2.704	0.83	126.0
	VEGETAL	3.214	0.99	149.6	TERRAPLEN	0.098	0.03	4.5
50.000	EXC SUELO 2	4.580	15.63	180.6	SUEL-EST3 TERR	2.691	9.52	135.5
	VEGETAL	3.168	11.26	160.9	TERRAPLEN	0.082	0.32	4.8

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
51.397	EXC SUELO 2	4.475	6.32	186.9	SUEL-EST3 TERR	2.687	3.76	139.3
	VEGETAL	3.157	4.42	165.3	TERRAPLEN	0.082	0.11	4.9
52.114	EXC SUELO 2	4.420	3.19	190.1	SUEL-EST3 TERR	2.688	1.93	141.2
	VEGETAL	3.155	2.26	167.5	TERRAPLEN	0.081	0.06	5.0
55.000	EXC SUELO 2	4.146	12.36	202.5	SUEL-EST3 TERR	2.683	7.75	149.0
	VEGETAL	3.133	9.07	176.6	TERRAPLEN	0.080	0.23	5.2
56.213	EXC SUELO 2	4.169	5.04	207.5	SUEL-EST3 TERR	2.680	3.25	152.2
	VEGETAL	3.132	3.80	180.4	TERRAPLEN	0.079	0.10	5.3
57.072	EXC SUELO 2	4.163	3.58	211.1	SUEL-EST3 TERR	2.666	2.30	154.5
	VEGETAL	3.120	2.69	183.1	TERRAPLEN	0.078	0.07	5.4
60.000	EXC SUELO 2	4.148	12.17	223.2	SUEL-EST3 TERR	2.658	7.80	162.3
	VEGETAL	3.114	9.13	192.2	TERRAPLEN	0.076	0.23	5.6
65.000	EXC SUELO 2	4.109	20.64	243.9	SUEL-EST3 TERR	2.645	13.26	175.6
	VEGETAL	3.117	15.58	207.8	TERRAPLEN	0.076	0.38	6.0
65.217	EXC SUELO 2	4.091	0.89	244.8	SUEL-EST3 TERR	2.645	0.57	176.1
	VEGETAL	3.116	0.68	208.5	TERRAPLEN	0.077	0.02	6.0
70.000	EXC SUELO 2	3.606	18.41	263.2	SUEL-EST3 TERR	2.627	12.61	188.8
	VEGETAL	3.090	14.84	223.3	TERRAPLEN	0.090	0.40	6.4
75.000	EXC SUELO 2	3.189	16.99	280.2	SUEL-EST3 TERR	2.609	13.09	201.8
	VEGETAL	3.082	15.43	238.7	TERRAPLEN	0.089	0.45	6.8
76.207	EXC SUELO 2	3.170	3.84	284.0	SUEL-EST3 TERR	2.604	3.15	205.0
	VEGETAL	3.075	3.72	242.5	TERRAPLEN	0.089	0.11	7.0
80.000	EXC SUELO 2	3.033	11.76	295.8	SUEL-EST3 TERR	2.587	9.85	214.8
	VEGETAL	3.048	11.61	254.1	TERRAPLEN	0.087	0.33	7.3
84.407	EXC SUELO 2	2.359	11.88	307.7	SUEL-EST3 TERR	2.568	11.36	226.2
	VEGETAL	3.023	13.38	267.5	TERRAPLEN	0.087	0.38	7.7
85.000	EXC SUELO 2	2.257	1.37	309.0	SUEL-EST3 TERR	2.565	1.52	227.7
	VEGETAL	3.019	1.79	269.2	TERRAPLEN	0.088	0.05	7.7
88.959	EXC SUELO 2	2.292	9.01	318.0	SUEL-EST3 TERR	2.545	10.11	237.8
	VEGETAL	2.976	11.87	281.1	TERRAPLEN	0.085	0.34	8.1
90.000	EXC SUELO 2	2.287	2.38	320.4	SUEL-EST3 TERR	2.542	2.65	240.5
	VEGETAL	2.966	3.09	284.2	TERRAPLEN	0.083	0.09	8.2
95.000	EXC SUELO 2	2.667	12.38	332.8	SUEL-EST3 TERR	2.531	12.68	253.2
	VEGETAL	2.925	14.73	298.9	TERRAPLEN	0.084	0.42	8.6
100.000	EXC SUELO 2	2.772	13.60	346.4	SUEL-EST3 TERR	2.519	12.62	265.8
	VEGETAL	2.927	14.63	313.6	TERRAPLEN	0.086	0.42	9.0
100.513	EXC SUELO 2	2.859	1.44	347.8	SUEL-EST3 TERR	2.518	1.29	267.1
	VEGETAL	2.927	1.50	315.1	TERRAPLEN	0.086	0.04	9.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
105.000	EXC SUELO 2	3.568	14.42	362.3	SUEL-EST3 TERR	2.535	11.34	278.4
	VEGETAL	2.946	13.18	328.2	TERRAPLEN	0.084	0.38	9.4
107.148	EXC SUELO 2	3.887	8.01	370.3	SUEL-EST3 TERR	2.544	5.46	283.9
	VEGETAL	2.972	6.36	334.6	TERRAPLEN	0.083	0.18	9.6
110.000	EXC SUELO 2	4.258	11.61	381.9	SUEL-EST3 TERR	2.551	7.26	291.1
	VEGETAL	2.998	8.51	343.1	TERRAPLEN	0.082	0.23	9.8
115.000	EXC SUELO 2	3.806	20.16	402.0	SUEL-EST3 TERR	2.563	12.78	303.9
	VEGETAL	3.020	15.04	358.2	TERRAPLEN	0.079	0.40	10.2
115.878	EXC SUELO 2	3.728	3.31	405.3	SUEL-EST3 TERR	2.565	2.25	306.2
	VEGETAL	3.020	2.65	360.8	TERRAPLEN	0.080	0.07	10.3
120.000	EXC SUELO 2	3.371	14.63	420.0	SUEL-EST3 TERR	2.581	10.61	316.8
	VEGETAL	3.024	12.46	373.3	TERRAPLEN	0.082	0.33	10.6
120.944	EXC SUELO 2	3.266	3.13	423.1	SUEL-EST3 TERR	2.585	2.44	319.2
	VEGETAL	3.022	2.85	376.1	TERRAPLEN	0.082	0.08	10.7
125.000	EXC SUELO 2	2.812	12.33	435.4	SUEL-EST3 TERR	2.598	10.51	329.7
	VEGETAL	3.013	12.24	388.4	TERRAPLEN	0.083	0.34	11.1
125.103	EXC SUELO 2	2.818	0.29	435.7	SUEL-EST3 TERR	2.599	0.27	330.0
	VEGETAL	3.013	0.31	388.7	TERRAPLEN	0.083	0.01	11.1
130.000	EXC SUELO 2	3.104	14.50	450.2	SUEL-EST3 TERR	2.607	12.75	342.7
	VEGETAL	2.980	14.67	403.3	TERRAPLEN	0.079	0.40	11.5
132.170	EXC SUELO 2	3.054	6.68	456.9	SUEL-EST3 TERR	2.611	5.66	348.4
	VEGETAL	2.993	6.48	409.8	TERRAPLEN	0.080	0.17	11.6
135.000	EXC SUELO 2	2.988	8.55	465.5	SUEL-EST3 TERR	2.613	7.39	355.8
	VEGETAL	3.003	8.49	418.3	TERRAPLEN	0.079	0.22	11.9
140.000	EXC SUELO 2	3.124	15.28	480.7	SUEL-EST3 TERR	2.616	13.07	368.9
	VEGETAL	3.019	15.05	433.4	TERRAPLEN	0.077	0.39	12.2
142.342	EXC SUELO 2	3.124	7.32	488.1	SUEL-EST3 TERR	2.617	6.13	375.0
	VEGETAL	3.026	7.08	440.4	TERRAPLEN	0.084	0.19	12.4
145.000	EXC SUELO 2	3.143	8.33	496.4	SUEL-EST3 TERR	2.636	6.98	382.0
	VEGETAL	3.067	8.10	448.5	TERRAPLEN	0.103	0.25	12.7
145.483	EXC SUELO 2	3.184	1.53	497.9	SUEL-EST3 TERR	2.640	1.27	383.2
	VEGETAL	3.067	1.48	450.0	TERRAPLEN	0.101	0.05	12.7
146.414	EXC SUELO 2	3.259	3.00	500.9	SUEL-EST3 TERR	2.643	2.46	385.7
	VEGETAL	3.065	2.85	452.9	TERRAPLEN	0.098	0.09	12.8
147.359	EXC SUELO 2	3.335	3.12	504.0	SUEL-EST3 TERR	2.645	2.50	388.2
	VEGETAL	3.060	2.89	455.8	TERRAPLEN	0.093	0.09	12.9
148.065	EXC SUELO 2	3.389	2.37	506.4	SUEL-EST3 TERR	2.645	1.87	390.1
	VEGETAL	3.054	2.16	457.9	TERRAPLEN	0.089	0.06	13.0

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150.000	EXC SUELO 2	3.534	6.70	513.1	SUEL-EST3 TERR	2.639	5.11	395.2
	VEGETAL	3.036	5.89	463.8	TERRAPLEN	0.078	0.16	13.1
150.502	EXC SUELO 2	3.548	1.78	514.9	SUEL-EST3 TERR	2.638	1.32	396.5
	VEGETAL	3.037	1.52	465.3	TERRAPLEN	0.079	0.04	13.2
155.000	EXC SUELO 2	3.714	16.33	531.2	SUEL-EST3 TERR	2.659	11.91	408.4
	VEGETAL	3.076	13.75	479.1	TERRAPLEN	0.088	0.38	13.6
158.020	EXC SUELO 2	3.398	10.74	541.9	SUEL-EST3 TERR	2.673	8.05	416.5
	VEGETAL	3.100	9.33	488.4	TERRAPLEN	0.086	0.26	13.8
160.000	EXC SUELO 2	3.180	6.51	548.5	SUEL-EST3 TERR	2.670	5.29	421.8
	VEGETAL	3.102	6.14	494.6	TERRAPLEN	0.084	0.17	14.0
163.753	EXC SUELO 2	2.752	11.13	559.6	SUEL-EST3 TERR	2.664	10.01	431.8
	VEGETAL	3.107	11.65	506.2	TERRAPLEN	0.086	0.32	14.3
165.000	EXC SUELO 2	2.616	3.35	562.9	SUEL-EST3 TERR	2.669	3.32	435.1
	VEGETAL	3.114	3.88	510.1	TERRAPLEN	0.086	0.11	14.4
170.000	EXC SUELO 2	2.133	11.87	574.8	SUEL-EST3 TERR	2.685	13.38	448.5
	VEGETAL	3.086	15.50	525.6	TERRAPLEN	0.088	0.43	14.9
170.704	EXC SUELO 2	2.283	1.55	576.4	SUEL-EST3 TERR	2.687	1.89	450.4
	VEGETAL	3.091	2.17	527.8	TERRAPLEN	0.088	0.06	14.9
175.000	EXC SUELO 2	3.221	11.82	588.2	SUEL-EST3 TERR	2.729	11.63	462.0
	VEGETAL	3.147	13.40	541.2	TERRAPLEN	0.087	0.38	15.3
178.209	EXC SUELO 2	3.401	10.63	598.8	SUEL-EST3 TERR	2.760	8.81	470.8
	VEGETAL	3.156	10.11	551.3	TERRAPLEN	0.082	0.27	15.6
180.000	EXC SUELO 2	3.502	6.18	605.0	SUEL-EST3 TERR	2.776	4.96	475.8
	VEGETAL	3.162	5.66	556.9	TERRAPLEN	0.082	0.15	15.7
185.000	EXC SUELO 2	3.353	17.14	622.1	SUEL-EST3 TERR	2.821	13.99	489.8
	VEGETAL	3.199	15.90	572.8	TERRAPLEN	0.074	0.39	16.1
185.322	EXC SUELO 2	3.315	1.07	623.2	SUEL-EST3 TERR	2.823	0.91	490.7
	VEGETAL	3.202	1.03	573.9	TERRAPLEN	0.074	0.02	16.1
190.000	EXC SUELO 2	2.766	14.22	637.4	SUEL-EST3 TERR	2.862	13.30	504.0
	VEGETAL	3.245	15.08	588.9	TERRAPLEN	0.071	0.34	16.5
192.955	EXC SUELO 2	3.050	8.59	646.0	SUEL-EST3 TERR	2.886	8.49	512.5
	VEGETAL	3.285	9.65	598.6	TERRAPLEN	0.078	0.22	16.7
195.000	EXC SUELO 2	3.245	6.44	652.5	SUEL-EST3 TERR	2.901	5.92	518.4
	VEGETAL	3.314	6.75	605.3	TERRAPLEN	0.083	0.16	16.8
200.000	EXC SUELO 2	3.423	16.67	669.1	SUEL-EST3 TERR	2.936	14.59	533.0
	VEGETAL	3.327	16.60	621.9	TERRAPLEN	0.083	0.42	17.3
201.042	EXC SUELO 2	3.247	3.48	672.6	SUEL-EST3 TERR	2.943	3.06	536.0
	VEGETAL	3.328	3.47	625.4	TERRAPLEN	0.082	0.09	17.3

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205.000	EXC SUELO 2	2.589	11.55	684.2	SUEL-EST3 TERR	2.986	11.74	547.8
	VEGETAL	3.344	13.20	638.6	TERRAPLEN	0.079	0.32	17.7
209.358	EXC SUELO 2	2.198	10.43	694.6	SUEL-EST3 TERR	3.034	13.12	560.9
	VEGETAL	3.362	14.61	653.2	TERRAPLEN	0.075	0.34	18.0
210.000	EXC SUELO 2	2.136	1.39	696.0	SUEL-EST3 TERR	3.037	1.95	562.8
	VEGETAL	3.361	2.16	655.4	TERRAPLEN	0.074	0.05	18.0
215.000	EXC SUELO 2	2.668	12.01	708.0	SUEL-EST3 TERR	3.063	15.25	578.1
	VEGETAL	3.349	16.77	672.2	TERRAPLEN	0.067	0.35	18.4
215.004	EXC SUELO 2	2.668	0.01	708.0	SUEL-EST3 TERR	3.063	0.01	578.1
	VEGETAL	3.349	0.01	672.2	TERRAPLEN	0.068	0.00	18.4
220.000	EXC SUELO 2	2.636	13.25	721.3	SUEL-EST3 TERR	3.106	15.41	593.5
	VEGETAL	3.418	16.90	689.1	TERRAPLEN	0.068	0.34	18.7
222.604	EXC SUELO 2	2.574	6.78	728.0	SUEL-EST3 TERR	3.128	8.12	601.6
	VEGETAL	3.435	8.92	698.0	TERRAPLEN	0.074	0.19	18.9
225.000	EXC SUELO 2	2.535	6.12	734.2	SUEL-EST3 TERR	3.154	7.53	609.2
	VEGETAL	3.451	8.25	706.2	TERRAPLEN	0.081	0.19	19.1
230.000	EXC SUELO 2	2.340	12.19	746.3	SUEL-EST3 TERR	3.237	15.98	625.1
	VEGETAL	3.399	17.12	723.4	TERRAPLEN	0.074	0.39	19.5
231.550	EXC SUELO 2	2.385	3.66	750.0	SUEL-EST3 TERR	3.259	5.03	630.2
	VEGETAL	3.429	5.29	728.7	TERRAPLEN	0.089	0.13	19.6
235.000	EXC SUELO 2	2.489	8.41	758.4	SUEL-EST3 TERR	3.297	11.31	641.5
	VEGETAL	3.494	11.94	740.6	TERRAPLEN	0.134	0.39	20.0
239.390	EXC SUELO 2	2.477	10.90	769.3	SUEL-EST3 TERR	3.328	14.54	656.0
	VEGETAL	3.495	15.34	755.9	TERRAPLEN	0.074	0.46	20.5
240.000	EXC SUELO 2	2.477	1.51	770.8	SUEL-EST3 TERR	3.333	2.03	658.1
	VEGETAL	3.496	2.13	758.1	TERRAPLEN	0.068	0.04	20.5
245.000	EXC SUELO 2	2.348	12.06	782.9	SUEL-EST3 TERR	3.357	16.73	674.8
	VEGETAL	3.668	17.91	776.0	TERRAPLEN	0.091	0.40	20.9
250.000	EXC SUELO 2	3.025	13.43	796.3	SUEL-EST3 TERR	3.413	16.93	691.7
	VEGETAL	3.804	18.68	794.7	TERRAPLEN	0.091	0.46	21.4
251.249	EXC SUELO 2	3.113	3.83	800.2	SUEL-EST3 TERR	3.426	4.27	696.0
	VEGETAL	3.827	4.77	799.4	TERRAPLEN	0.092	0.11	21.5
254.892	EXC SUELO 2	3.342	11.76	811.9	SUEL-EST3 TERR	3.421	12.47	708.4
	VEGETAL	3.846	13.98	813.4	TERRAPLEN	0.093	0.34	21.8
255.000	EXC SUELO 2	3.350	0.36	812.3	SUEL-EST3 TERR	3.422	0.37	708.8
	VEGETAL	3.848	0.42	813.8	TERRAPLEN	0.093	0.01	21.8
260.000	EXC SUELO 2	3.034	15.96	828.2	SUEL-EST3 TERR	3.471	17.23	726.0
	VEGETAL	3.954	19.51	833.3	TERRAPLEN	0.104	0.49	22.3

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
261.619	EXC SUELO 2	2.947	4.84	833.1	SUEL-EST3 TERR	3.487	5.63	731.7
	VEGETAL	3.977	6.42	839.7	TERRAPLEN	0.096	0.16	22.5
262.811	EXC SUELO 2	2.907	3.49	836.6	SUEL-EST3 TERR	3.502	4.17	735.8
	VEGETAL	3.999	4.75	844.5	TERRAPLEN	0.093	0.11	22.6
264.013	EXC SUELO 2	2.883	3.48	840.0	SUEL-EST3 TERR	3.518	4.22	740.1
	VEGETAL	4.021	4.82	849.3	TERRAPLEN	0.090	0.11	22.7
265.000	EXC SUELO 2	2.872	2.84	842.9	SUEL-EST3 TERR	3.529	3.48	743.5
	VEGETAL	4.037	3.98	853.3	TERRAPLEN	0.088	0.09	22.8
265.216	EXC SUELO 2	2.904	0.62	843.5	SUEL-EST3 TERR	3.532	0.76	744.3
	VEGETAL	4.040	0.87	854.2	TERRAPLEN	0.089	0.02	22.8
266.418	EXC SUELO 2	3.096	3.61	847.1	SUEL-EST3 TERR	3.547	4.25	748.6
	VEGETAL	4.060	4.87	859.0	TERRAPLEN	0.089	0.11	22.9
267.620	EXC SUELO 2	3.298	3.84	851.0	SUEL-EST3 TERR	3.561	4.27	752.8
	VEGETAL	4.079	4.89	863.9	TERRAPLEN	0.090	0.11	23.0
268.822	EXC SUELO 2	3.513	4.09	855.1	SUEL-EST3 TERR	3.575	4.29	757.1
	VEGETAL	4.098	4.91	868.8	TERRAPLEN	0.091	0.11	23.1
270.000	EXC SUELO 2	3.733	4.27	859.3	SUEL-EST3 TERR	3.586	4.22	761.3
	VEGETAL	4.115	4.84	873.7	TERRAPLEN	0.092	0.11	23.2
270.025	EXC SUELO 2	3.740	0.09	859.4	SUEL-EST3 TERR	3.587	0.09	761.4
	VEGETAL	4.115	0.10	873.8	TERRAPLEN	0.092	0.00	23.2
271.226	EXC SUELO 2	4.043	4.67	864.1	SUEL-EST3 TERR	3.601	4.32	765.7
	VEGETAL	4.136	4.96	878.7	TERRAPLEN	0.090	0.11	23.4
272.429	EXC SUELO 2	4.356	5.05	869.1	SUEL-EST3 TERR	3.612	4.34	770.1
	VEGETAL	4.155	4.99	883.7	TERRAPLEN	0.089	0.11	23.5
273.631	EXC SUELO 2	4.684	5.43	874.6	SUEL-EST3 TERR	3.624	4.35	774.4
	VEGETAL	4.175	5.01	888.7	TERRAPLEN	0.087	0.11	23.6
274.844	EXC SUELO 2	5.031	5.89	880.5	SUEL-EST3 TERR	3.635	4.40	778.8
	VEGETAL	4.195	5.08	893.8	TERRAPLEN	0.087	0.11	23.7
275.000	EXC SUELO 2	5.077	0.79	881.3	SUEL-EST3 TERR	3.638	0.57	779.4
	VEGETAL	4.197	0.65	894.5	TERRAPLEN	0.087	0.01	23.7
275.911	EXC SUELO 2	5.145	4.66	885.9	SUEL-EST3 TERR	3.647	3.32	782.7
	VEGETAL	4.201	3.83	898.3	TERRAPLEN	0.087	0.08	23.8
276.978	EXC SUELO 2	5.231	5.54	891.4	SUEL-EST3 TERR	3.655	3.90	786.6
	VEGETAL	4.204	4.48	902.8	TERRAPLEN	0.087	0.09	23.9
278.046	EXC SUELO 2	5.331	5.64	897.1	SUEL-EST3 TERR	3.664	3.91	790.5
	VEGETAL	4.208	4.49	907.3	TERRAPLEN	0.088	0.09	23.9
279.124	EXC SUELO 2	5.444	5.81	902.9	SUEL-EST3 TERR	3.674	3.96	794.5
	VEGETAL	4.214	4.54	911.8	TERRAPLEN	0.089	0.10	24.0

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
280.000	EXC SUELO 2	5.546	4.81	907.7	SUEL-EST3 TERR	3.683	3.22	797.7
	VEGETAL	4.219	3.69	915.5	TERRAPLEN	0.089	0.08	24.1
280.191	EXC SUELO 2	5.546	1.06	908.8	SUEL-EST3 TERR	3.685	0.70	798.4
	VEGETAL	4.221	0.81	916.3	TERRAPLEN	0.089	0.02	24.1
281.260	EXC SUELO 2	5.553	5.93	914.7	SUEL-EST3 TERR	3.694	3.94	802.3
	VEGETAL	4.226	4.51	920.8	TERRAPLEN	0.089	0.10	24.2
282.339	EXC SUELO 2	5.574	6.00	920.7	SUEL-EST3 TERR	3.703	3.99	806.3
	VEGETAL	4.234	4.56	925.4	TERRAPLEN	0.089	0.10	24.3
283.408	EXC SUELO 2	5.600	5.97	926.7	SUEL-EST3 TERR	3.710	3.96	810.3
	VEGETAL	4.239	4.53	929.9	TERRAPLEN	0.089	0.10	24.4
284.478	EXC SUELO 2	5.645	6.02	932.7	SUEL-EST3 TERR	3.722	3.98	814.3
	VEGETAL	4.249	4.54	934.5	TERRAPLEN	0.089	0.10	24.5
285.000	EXC SUELO 2	5.669	2.95	935.6	SUEL-EST3 TERR	3.726	1.94	816.2
	VEGETAL	4.253	2.22	936.7	TERRAPLEN	0.089	0.05	24.6
285.548	EXC SUELO 2	5.719	3.12	938.8	SUEL-EST3 TERR	3.731	2.04	818.3
	VEGETAL	4.259	2.33	939.0	TERRAPLEN	0.089	0.05	24.6
286.619	EXC SUELO 2	5.823	6.18	944.9	SUEL-EST3 TERR	3.737	4.00	822.3
	VEGETAL	4.270	4.57	943.6	TERRAPLEN	0.090	0.10	24.7
290.000	EXC SUELO 2	6.198	20.32	965.3	SUEL-EST3 TERR	3.742	12.64	834.9
	VEGETAL	4.292	14.47	958.0	TERRAPLEN	0.091	0.31	25.0
291.797	EXC SUELO 2	6.242	11.18	976.4	SUEL-EST3 TERR	3.744	6.73	841.6
	VEGETAL	4.311	7.73	965.8	TERRAPLEN	0.091	0.16	25.2
295.000	EXC SUELO 2	6.445	20.32	996.8	SUEL-EST3 TERR	3.759	12.02	853.6
	VEGETAL	4.366	13.90	979.7	TERRAPLEN	0.094	0.30	25.5
296.910	EXC SUELO 2	6.747	12.60	1009.4	SUEL-EST3 TERR	3.768	7.19	860.8
	VEGETAL	4.419	8.39	988.1	TERRAPLEN	0.086	0.17	25.6
296.922	EXC SUELO 2	6.748	0.08	1009.4	SUEL-EST3 TERR	3.768	0.05	860.9
	VEGETAL	4.419	0.05	988.1	TERRAPLEN	0.086	0.00	25.6
298.956	EXC SUELO 2	6.555	13.53	1023.0	SUEL-EST3 TERR	3.769	7.67	868.5
	VEGETAL	4.547	9.12	997.2	TERRAPLEN	0.173	0.26	25.9
300.000	EXC SUELO 2	6.466	6.80	1029.8	SUEL-EST3 TERR	3.765	3.93	872.5
	VEGETAL	4.593	4.77	1002.0	TERRAPLEN	0.162	0.17	26.1
304.953	EXC SUELO 2	6.239	31.46	1061.2	SUEL-EST3 TERR	3.746	18.60	891.1
	VEGETAL	4.273	21.96	1024.0	TERRAPLEN	0.088	0.62	26.7
305.000	EXC SUELO 2	6.238	0.29	1061.5	SUEL-EST3 TERR	3.745	0.18	891.3
	VEGETAL	4.273	0.20	1024.2	TERRAPLEN	0.088	0.00	26.7
310.000	EXC SUELO 2	5.477	29.29	1090.8	SUEL-EST3 TERR	3.723	18.67	909.9
	VEGETAL	4.214	21.22	1045.4	TERRAPLEN	0.090	0.44	27.2

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
310.733	EXC SUELO 2	5.350	3.97	1094.8	SUEL-EST3 TERR	3.720	2.73	912.7
	VEGETAL	4.245	3.10	1048.5	TERRAPLEN	0.106	0.07	27.2
315.000	EXC SUELO 2	4.823	21.71	1116.5	SUEL-EST3 TERR	3.697	15.83	928.5
	VEGETAL	4.531	18.72	1067.2	TERRAPLEN	0.094	0.43	27.7
317.452	EXC SUELO 2	6.108	13.40	1129.9	SUEL-EST3 TERR	3.684	9.05	937.5
	VEGETAL	4.842	11.49	1078.7	TERRAPLEN	0.104	0.24	27.9
320.000	EXC SUELO 2	8.770	18.95	1148.8	SUEL-EST3 TERR	3.656	9.35	946.9
	VEGETAL	5.348	12.98	1091.7	TERRAPLEN	0.120	0.29	28.2
324.027	EXC SUELO 2	6.897	31.55	1180.4	SUEL-EST3 TERR	3.611	14.63	961.5
	VEGETAL	5.025	20.89	1112.6	TERRAPLEN	0.107	0.46	28.6
325.000	EXC SUELO 2	6.523	6.53	1186.9	SUEL-EST3 TERR	3.600	3.51	965.0
	VEGETAL	4.960	4.86	1117.4	TERRAPLEN	0.105	0.10	28.7
330.000	EXC SUELO 2	2.959	23.71	1210.6	SUEL-EST3 TERR	3.537	17.84	982.9
	VEGETAL	3.996	22.39	1139.8	TERRAPLEN	0.093	0.50	29.2
332.311	EXC SUELO 2	2.702	6.54	1217.2	SUEL-EST3 TERR	3.509	8.14	991.0
	VEGETAL	3.936	9.17	1149.0	TERRAPLEN	0.093	0.22	29.5
335.000	EXC SUELO 2	2.472	6.96	1224.1	SUEL-EST3 TERR	3.459	9.37	1000.4
	VEGETAL	3.856	10.48	1159.4	TERRAPLEN	0.092	0.25	29.7
339.588	EXC SUELO 2	2.393	11.16	1235.3	SUEL-EST3 TERR	3.375	15.68	1016.1
	VEGETAL	3.760	17.47	1176.9	TERRAPLEN	0.092	0.42	30.1
340.000	EXC SUELO 2	2.393	0.99	1236.3	SUEL-EST3 TERR	3.367	1.39	1017.4
	VEGETAL	3.752	1.55	1178.5	TERRAPLEN	0.091	0.04	30.2
340.136	EXC SUELO 2	2.391	0.33	1236.6	SUEL-EST3 TERR	3.365	0.46	1017.9
	VEGETAL	3.750	0.51	1179.0	TERRAPLEN	0.091	0.01	30.2
345.000	EXC SUELO 2	2.445	11.76	1248.4	SUEL-EST3 TERR	3.293	16.19	1034.1
	VEGETAL	3.695	18.11	1197.1	TERRAPLEN	0.089	0.44	30.6
348.291	EXC SUELO 2	2.519	8.17	1256.5	SUEL-EST3 TERR	3.245	10.76	1044.9
	VEGETAL	3.661	12.11	1209.2	TERRAPLEN	0.090	0.30	30.9
350.000	EXC SUELO 2	2.592	4.37	1260.9	SUEL-EST3 TERR	3.218	5.52	1050.4
	VEGETAL	3.644	6.24	1215.4	TERRAPLEN	0.090	0.15	31.1
355.000	EXC SUELO 2	2.793	13.46	1274.4	SUEL-EST3 TERR	3.141	15.90	1066.3
	VEGETAL	3.612	18.14	1233.6	TERRAPLEN	0.093	0.46	31.5
356.340	EXC SUELO 2	2.763	3.72	1278.1	SUEL-EST3 TERR	3.121	4.20	1070.5
	VEGETAL	3.584	4.82	1238.4	TERRAPLEN	0.092	0.12	31.6
360.000	EXC SUELO 2	2.725	10.04	1288.1	SUEL-EST3 TERR	3.083	11.35	1081.8
	VEGETAL	3.531	13.02	1251.4	TERRAPLEN	0.091	0.34	32.0
363.840	EXC SUELO 2	3.150	11.28	1299.4	SUEL-EST3 TERR	3.044	11.76	1093.6
	VEGETAL	3.520	13.54	1265.0	TERRAPLEN	0.089	0.35	32.3

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
365.000	EXC SUELO 2	4.267	4.30	1303.7	SUEL-EST3 TERR	4.354	4.29	1097.9
	VEGETAL	4.780	4.81	1269.8	TERRAPLEN	0.086	0.10	32.4
365.175	EXC SUELO 2	4.334	0.75	1304.5	SUEL-EST3 TERR	4.551	0.78	1098.7
	VEGETAL	4.959	0.85	1270.6	TERRAPLEN	0.086	0.02	32.4
370.000	EXC SUELO 2	4.639	21.65	1326.1	SUEL-EST3 TERR	4.526	21.90	1120.6
	VEGETAL	4.972	23.96	1294.6	TERRAPLEN	0.087	0.42	32.9
375.000	EXC SUELO 2	4.283	22.31	1348.4	SUEL-EST3 TERR	4.499	22.56	1143.1
	VEGETAL	4.974	24.87	1319.4	TERRAPLEN	0.089	0.44	33.3
378.113	EXC SUELO 2	4.097	13.04	1361.5	SUEL-EST3 TERR	4.483	13.98	1157.1
	VEGETAL	4.955	15.45	1334.9	TERRAPLEN	0.091	0.28	33.6
380.000	EXC SUELO 2	4.013	7.65	1369.1	SUEL-EST3 TERR	4.472	8.45	1165.6
	VEGETAL	4.941	9.34	1344.2	TERRAPLEN	0.091	0.17	33.7
385.000	EXC SUELO 2	3.684	19.24	1388.3	SUEL-EST3 TERR	4.440	22.28	1187.8
	VEGETAL	4.869	24.52	1368.8	TERRAPLEN	0.091	0.45	34.2
389.588	EXC SUELO 2	3.297	16.02	1404.4	SUEL-EST3 TERR	4.410	20.30	1208.1
	VEGETAL	4.807	22.20	1391.0	TERRAPLEN	0.090	0.42	34.6
390.000	EXC SUELO 2	3.247	1.35	1405.7	SUEL-EST3 TERR	4.409	1.82	1209.9
	VEGETAL	4.801	1.98	1392.9	TERRAPLEN	0.090	0.04	34.7
395.000	EXC SUELO 2	3.407	16.64	1422.3	SUEL-EST3 TERR	4.377	21.96	1231.9
	VEGETAL	4.738	23.85	1416.8	TERRAPLEN	0.082	0.43	35.1
400.000	EXC SUELO 2	3.131	16.35	1438.7	SUEL-EST3 TERR	4.345	21.80	1253.7
	VEGETAL	4.695	23.58	1440.4	TERRAPLEN	0.086	0.42	35.5
405.000	EXC SUELO 2	3.239	15.93	1454.6	SUEL-EST3 TERR	4.334	21.70	1275.4
	VEGETAL	4.583	23.19	1463.6	TERRAPLEN	0.064	0.37	35.9
410.000	EXC SUELO 2	3.881	17.80	1472.4	SUEL-EST3 TERR	4.311	21.61	1297.0
	VEGETAL	4.580	22.91	1486.5	TERRAPLEN	0.078	0.35	36.2
411.665	EXC SUELO 2	4.201	6.73	1479.1	SUEL-EST3 TERR	4.287	7.16	1304.2
	VEGETAL	4.549	7.60	1494.1	TERRAPLEN	0.052	0.11	36.3
415.000	EXC SUELO 2	4.920	15.21	1494.4	SUEL-EST3 TERR	4.290	14.30	1318.5
	VEGETAL	4.675	15.38	1509.4	TERRAPLEN	0.083	0.23	36.6
420.000	EXC SUELO 2	6.249	27.92	1522.3	SUEL-EST3 TERR	4.317	21.52	1340.0
	VEGETAL	4.762	23.59	1533.0	TERRAPLEN	0.083	0.42	37.0
425.000	EXC SUELO 2	6.931	32.95	1555.2	SUEL-EST3 TERR	4.345	21.66	1361.7
	VEGETAL	4.878	24.10	1557.1	TERRAPLEN	0.089	0.43	37.4
430.000	EXC SUELO 2	6.914	34.61	1589.8	SUEL-EST3 TERR	4.373	21.80	1383.4
	VEGETAL	4.832	24.28	1581.4	TERRAPLEN	0.083	0.43	37.8
431.446	EXC SUELO 2	7.009	10.07	1599.9	SUEL-EST3 TERR	4.381	6.33	1389.8
	VEGETAL	4.842	6.99	1588.4	TERRAPLEN	0.083	0.12	38.0

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
435.000	EXC SUELO 2	7.228	25.30	1625.2	SUEL-EST3 TERR	4.372	15.56	1405.3
	VEGETAL	4.843	17.21	1605.6	TERRAPLEN	0.082	0.29	38.3
440.000	EXC SUELO 2	8.008	38.09	1663.3	SUEL-EST3 TERR	4.361	21.83	1427.2
	VEGETAL	4.919	24.41	1630.0	TERRAPLEN	0.083	0.41	38.7
445.000	EXC SUELO 2	7.779	39.47	1702.8	SUEL-EST3 TERR	4.349	21.77	1448.9
	VEGETAL	4.936	24.64	1654.7	TERRAPLEN	0.088	0.43	39.1
446.695	EXC SUELO 2	7.621	13.05	1715.8	SUEL-EST3 TERR	4.345	7.37	1456.3
	VEGETAL	4.930	8.36	1663.0	TERRAPLEN	0.089	0.15	39.2
450.000	EXC SUELO 2	7.304	24.66	1740.5	SUEL-EST3 TERR	4.330	14.34	1470.6
	VEGETAL	4.914	16.27	1679.3	TERRAPLEN	0.091	0.30	39.5
455.000	EXC SUELO 2	6.201	33.76	1774.3	SUEL-EST3 TERR	4.309	21.60	1492.2
	VEGETAL	4.869	24.46	1703.7	TERRAPLEN	0.091	0.45	40.0
460.000	EXC SUELO 2	5.324	28.81	1803.1	SUEL-EST3 TERR	4.288	21.49	1513.7
	VEGETAL	4.808	24.19	1727.9	TERRAPLEN	0.091	0.45	40.4
463.736	EXC SUELO 2	6.274	21.67	1824.7	SUEL-EST3 TERR	4.271	15.99	1529.7
	VEGETAL	4.800	17.95	1745.9	TERRAPLEN	0.092	0.34	40.8
465.000	EXC SUELO 2	6.608	8.14	1832.9	SUEL-EST3 TERR	4.278	5.40	1535.1
	VEGETAL	4.809	6.07	1752.0	TERRAPLEN	0.091	0.12	40.9
470.000	EXC SUELO 2	7.233	34.60	1867.5	SUEL-EST3 TERR	4.305	21.46	1556.6
	VEGETAL	4.845	24.14	1776.1	TERRAPLEN	0.091	0.46	41.4
475.000	EXC SUELO 2	7.550	36.96	1904.4	SUEL-EST3 TERR	4.333	21.60	1578.2
	VEGETAL	4.879	24.31	1800.4	TERRAPLEN	0.089	0.45	41.8
477.620	EXC SUELO 2	7.714	20.00	1924.4	SUEL-EST3 TERR	4.347	11.37	1589.5
	VEGETAL	4.895	12.80	1813.2	TERRAPLEN	0.087	0.23	42.0
477.621	EXC SUELO 2	7.714	0.01	1924.4	SUEL-EST3 TERR	4.348	0.00	1589.6
	VEGETAL	4.895	0.00	1813.2	TERRAPLEN	0.087	0.00	42.0
480.000	EXC SUELO 2	7.898	18.57	1943.0	SUEL-EST3 TERR	4.360	10.36	1599.9
	VEGETAL	4.911	11.66	1824.9	TERRAPLEN	0.086	0.21	42.3
485.000	EXC SUELO 2	8.256	40.38	1983.4	SUEL-EST3 TERR	4.387	21.87	1621.8
	VEGETAL	4.946	24.64	1849.5	TERRAPLEN	0.083	0.42	42.7
488.918	EXC SUELO 2	8.259	32.35	2015.7	SUEL-EST3 TERR	4.409	17.23	1639.0
	VEGETAL	4.976	19.44	1869.0	TERRAPLEN	0.081	0.32	43.0
490.000	EXC SUELO 2	8.255	8.93	2024.7	SUEL-EST3 TERR	4.409	4.77	1643.8
	VEGETAL	4.979	5.39	1874.3	TERRAPLEN	0.081	0.09	43.1
495.000	EXC SUELO 2	7.387	39.10	2063.8	SUEL-EST3 TERR	4.409	22.04	1665.8
	VEGETAL	4.955	24.83	1899.2	TERRAPLEN	0.090	0.43	43.5
500.000	EXC SUELO 2	6.201	33.97	2097.8	SUEL-EST3 TERR	4.409	22.05	1687.9
	VEGETAL	4.916	24.68	1923.9	TERRAPLEN	0.091	0.45	44.0

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EJE: 23: SOLUCION N-525 SITUACION FINAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
500.953	EXC SUELO 2	5.997	5.81	2103.6	SUEL-EST3 TERR	4.409	4.20	1692.1
	VEGETAL	4.909	4.68	1928.5	TERRAPLEN	0.091	0.09	44.0
500.954	EXC SUELO 2	5.997	0.01	2103.6	SUEL-EST3 TERR	4.409	0.00	1692.1
	VEGETAL	4.909	0.00	1928.5	TERRAPLEN	0.091	0.00	44.0

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PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 SITUACION FINAL

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	2103.6
SUEL-EST3 TERR	1692.1
VEGETAL	1928.5
TERRAPLEN	44.0

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 4 / INTERSECCION

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	40.584	0.00	0.0	SUEL-EST3 TERR	6.478	0.00	0.0
	VEGETAL	7.639	0.00	0.0	TERRAPLEN	0.062	0.00	0.0
0.035	EXC SUELO 2	47.623	1.54	1.5	SUEL-EST3 TERR	9.494	0.28	0.3
	VEGETAL	10.537	0.32	0.3	TERRAPLEN	0.062	0.00	0.0
0.038	EXC SUELO 2	47.359	0.14	1.7	SUEL-EST3 TERR	9.463	0.03	0.3
	VEGETAL	10.505	0.03	0.3	TERRAPLEN	0.062	0.00	0.0
0.151	EXC SUELO 2	43.652	5.14	6.8	SUEL-EST3 TERR	8.910	1.04	1.3
	VEGETAL	9.916	1.15	1.5	TERRAPLEN	0.062	0.01	0.0
0.155	EXC SUELO 2	43.534	0.17	7.0	SUEL-EST3 TERR	8.894	0.04	1.4
	VEGETAL	9.900	0.04	1.5	TERRAPLEN	0.063	0.00	0.0
0.341	EXC SUELO 2	40.113	7.78	14.8	SUEL-EST3 TERR	8.348	1.60	3.0
	VEGETAL	9.298	1.79	3.3	TERRAPLEN	0.062	0.01	0.0
0.349	EXC SUELO 2	39.984	0.32	15.1	SUEL-EST3 TERR	8.328	0.07	3.1
	VEGETAL	9.276	0.07	3.4	TERRAPLEN	0.062	0.00	0.0
0.561	EXC SUELO 2	37.556	8.22	23.3	SUEL-EST3 TERR	7.888	1.72	4.8
	VEGETAL	8.801	1.92	5.3	TERRAPLEN	0.062	0.01	0.0
0.604	EXC SUELO 2	37.087	1.60	24.9	SUEL-EST3 TERR	7.799	0.34	5.1
	VEGETAL	8.705	0.38	5.7	TERRAPLEN	0.062	0.00	0.0
0.618	EXC SUELO 2	36.944	0.52	25.4	SUEL-EST3 TERR	7.772	0.11	5.2
	VEGETAL	8.677	0.12	5.8	TERRAPLEN	0.062	0.00	0.0
0.938	EXC SUELO 2	34.416	11.42	36.9	SUEL-EST3 TERR	7.264	2.41	7.6
	VEGETAL	8.123	2.69	8.5	TERRAPLEN	0.062	0.02	0.1
0.961	EXC SUELO 2	34.253	0.79	37.7	SUEL-EST3 TERR	7.231	0.17	7.8
	VEGETAL	8.087	0.19	8.7	TERRAPLEN	0.062	0.00	0.1
1.341	EXC SUELO 2	32.024	12.59	50.2	SUEL-EST3 TERR	6.747	2.66	10.4
	VEGETAL	7.556	2.97	11.7	TERRAPLEN	0.062	0.02	0.1
1.375	EXC SUELO 2	31.844	1.09	51.3	SUEL-EST3 TERR	6.707	0.23	10.7
	VEGETAL	7.513	0.26	11.9	TERRAPLEN	0.062	0.00	0.1
1.811	EXC SUELO 2	29.842	13.45	64.8	SUEL-EST3 TERR	6.250	2.82	13.5
	VEGETAL	7.014	3.17	15.1	TERRAPLEN	0.060	0.03	0.1
1.859	EXC SUELO 2	29.649	1.43	66.2	SUEL-EST3 TERR	6.205	0.30	13.8
	VEGETAL	6.968	0.34	15.4	TERRAPLEN	0.060	0.00	0.1
1.965	EXC SUELO 2	29.266	3.12	69.3	SUEL-EST3 TERR	6.112	0.65	14.5
	VEGETAL	6.875	0.73	16.2	TERRAPLEN	0.060	0.01	0.1
2.345	EXC SUELO 2	27.886	10.86	80.2	SUEL-EST3 TERR	5.778	2.26	16.7
	VEGETAL	6.544	2.55	18.7	TERRAPLEN	0.060	0.02	0.1
2.408	EXC SUELO 2	27.670	1.75	81.9	SUEL-EST3 TERR	5.728	0.36	17.1
	VEGETAL	6.493	0.41	19.1	TERRAPLEN	0.060	0.00	0.1

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 4 / INTERSECCION

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2.939	EXC SUELO 2	26.076	14.27	96.2	SUEL-EST3 TERR	5.334	2.94	20.0
	VEGETAL	6.114	3.35	22.5	TERRAPLEN	0.060	0.03	0.2
3.020	EXC SUELO 2	25.871	2.10	98.3	SUEL-EST3 TERR	5.278	0.43	20.4
	VEGETAL	6.062	0.49	23.0	TERRAPLEN	0.060	0.00	0.2
3.591	EXC SUELO 2	24.439	14.36	112.7	SUEL-EST3 TERR	4.918	2.91	23.3
	VEGETAL	5.714	3.36	26.3	TERRAPLEN	0.060	0.03	0.2
3.690	EXC SUELO 2	24.174	2.41	115.1	SUEL-EST3 TERR	4.860	0.48	23.8
	VEGETAL	5.658	0.56	26.9	TERRAPLEN	0.060	0.01	0.2
4.294	EXC SUELO 2	22.485	14.09	129.2	SUEL-EST3 TERR	4.536	2.84	26.7
	VEGETAL	5.342	3.32	30.2	TERRAPLEN	0.060	0.04	0.3
4.414	EXC SUELO 2	22.082	2.67	131.8	SUEL-EST3 TERR	4.476	0.54	27.2
	VEGETAL	5.285	0.64	30.8	TERRAPLEN	0.060	0.01	0.3
5.000	EXC SUELO 2	20.098	12.36	144.2	SUEL-EST3 TERR	4.208	2.54	29.8
	VEGETAL	5.021	3.02	33.9	TERRAPLEN	0.060	0.04	0.3
5.046	EXC SUELO 2	19.939	0.92	145.1	SUEL-EST3 TERR	4.187	0.19	29.9
	VEGETAL	5.000	0.23	34.1	TERRAPLEN	0.060	0.00	0.3
5.187	EXC SUELO 2	19.481	2.78	147.9	SUEL-EST3 TERR	4.128	0.59	30.5
	VEGETAL	4.939	0.70	34.8	TERRAPLEN	0.060	0.01	0.3
5.842	EXC SUELO 2	18.052	12.29	160.2	SUEL-EST3 TERR	3.876	2.62	33.2
	VEGETAL	4.673	3.15	37.9	TERRAPLEN	0.060	0.04	0.4
6.004	EXC SUELO 2	17.791	2.90	163.1	SUEL-EST3 TERR	3.818	0.62	33.8
	VEGETAL	4.616	0.75	38.7	TERRAPLEN	0.060	0.01	0.4
6.676	EXC SUELO 2	16.789	11.62	174.7	SUEL-EST3 TERR	3.603	2.49	36.3
	VEGETAL	4.403	3.03	41.7	TERRAPLEN	0.061	0.04	0.4
6.860	EXC SUELO 2	16.537	3.07	177.8	SUEL-EST3 TERR	3.550	0.66	36.9
	VEGETAL	4.350	0.81	42.5	TERRAPLEN	0.061	0.01	0.4
7.543	EXC SUELO 2	15.679	11.00	188.8	SUEL-EST3 TERR	3.370	2.36	39.3
	RELLEN MEDIANA	0.001	0.00	0.0	VEGETAL	4.171	2.91	45.4
	TERRAPLEN	0.061	0.04	0.5				
7.750	EXC SUELO 2	15.443	3.22	192.0	SUEL-EST3 TERR	3.322	0.69	40.0
	RELLEN MEDIANA	0.001	0.00	0.0	VEGETAL	4.122	0.86	46.3
	TERRAPLEN	0.061	0.01	0.5				
8.438	EXC SUELO 2	14.736	10.38	202.4	SUEL-EST3 TERR	3.181	2.24	42.2
	VEGETAL	3.979	2.79	49.1	TERRAPLEN	0.061	0.04	0.5
8.667	EXC SUELO 2	14.541	3.35	205.7	SUEL-EST3 TERR	3.140	0.72	42.9
	VEGETAL	3.937	0.91	50.0	TERRAPLEN	0.061	0.01	0.5
9.356	EXC SUELO 2	14.132	9.88	215.6	SUEL-EST3 TERR	3.034	2.13	45.1
	VEGETAL	3.836	2.68	52.7	TERRAPLEN	0.060	0.04	0.6

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
9.606	EXC SUELO 2	13.930	3.51	219.1	SUEL-EST3 TERR	3.001	0.75	45.8
	VEGETAL	3.801	0.95	53.6	TERRAPLEN	0.060	0.01	0.6
10.000	EXC SUELO 2	13.655	5.43	224.6	SUEL-EST3 TERR	2.960	1.17	47.0
	VEGETAL	3.752	1.49	55.1	TERRAPLEN	0.059	0.02	0.6
10.208	EXC SUELO 2	13.509	2.83	227.4	SUEL-EST3 TERR	2.939	0.61	47.6
	VEGETAL	3.726	0.78	55.9	TERRAPLEN	0.059	0.01	0.6
10.776	EXC SUELO 2	13.248	7.60	235.0	SUEL-EST3 TERR	2.901	1.66	49.3
	VEGETAL	3.687	2.11	58.0	TERRAPLEN	0.059	0.03	0.7
11.014	EXC SUELO 2	13.152	3.14	238.1	SUEL-EST3 TERR	2.887	0.69	50.0
	VEGETAL	3.672	0.88	58.9	TERRAPLEN	0.059	0.01	0.7
11.705	EXC SUELO 2	12.965	9.02	247.1	SUEL-EST3 TERR	2.860	1.99	52.0
	VEGETAL	3.643	2.53	61.4	TERRAPLEN	0.059	0.04	0.7
11.975	EXC SUELO 2	12.900	3.49	250.6	SUEL-EST3 TERR	2.849	0.77	52.7
	VEGETAL	3.632	0.98	62.4	TERRAPLEN	0.059	0.02	0.7
13.168	EXC SUELO 2	13.007	15.45	266.1	SUEL-EST3 TERR	2.809	3.38	56.1
	VEGETAL	3.571	4.30	66.7	TERRAPLEN	0.060	0.07	0.8
14.355	EXC SUELO 2	13.479	15.72	281.8	SUEL-EST3 TERR	2.774	3.31	59.4
	VEGETAL	3.537	4.22	70.9	TERRAPLEN	0.060	0.07	0.9
15.000	EXC SUELO 2	13.921	8.84	290.6	SUEL-EST3 TERR	2.758	1.78	61.2
	VEGETAL	3.543	2.28	73.2	TERRAPLEN	0.054	0.04	0.9
15.537	EXC SUELO 2	13.885	7.47	298.1	SUEL-EST3 TERR	2.746	1.48	62.7
	VEGETAL	3.540	1.90	75.1	TERRAPLEN	0.062	0.03	0.9
16.715	EXC SUELO 2	13.518	16.14	314.3	SUEL-EST3 TERR	2.724	3.22	65.9
	VEGETAL	3.521	4.16	79.2	TERRAPLEN	0.059	0.07	1.0
16.777	EXC SUELO 2	13.482	0.84	315.1	SUEL-EST3 TERR	2.723	0.17	66.1
	VEGETAL	3.521	0.22	79.5	TERRAPLEN	0.059	0.00	1.0
17.890	EXC SUELO 2	12.815	14.63	329.7	SUEL-EST3 TERR	2.708	3.02	69.1
	VEGETAL	3.456	3.88	83.3	TERRAPLEN	0.064	0.07	1.1
19.063	EXC SUELO 2	12.311	14.74	344.5	SUEL-EST3 TERR	2.698	3.17	72.3
	VEGETAL	3.419	4.03	87.4	TERRAPLEN	0.062	0.07	1.2
20.000	EXC SUELO 2	12.038	11.41	355.9	SUEL-EST3 TERR	2.695	2.53	74.8
	VEGETAL	3.388	3.19	90.6	TERRAPLEN	0.059	0.06	1.2
20.236	EXC SUELO 2	11.955	2.83	358.7	SUEL-EST3 TERR	2.695	0.64	75.4
	VEGETAL	3.382	0.80	91.4	TERRAPLEN	0.059	0.01	1.2
25.000	EXC SUELO 2	11.055	54.81	413.5	SUEL-EST3 TERR	2.695	12.84	88.3
	VEGETAL	3.346	16.03	107.4	TERRAPLEN	0.059	0.28	1.5
30.000	EXC SUELO 2	9.480	51.34	464.9	SUEL-EST3 TERR	2.695	13.47	101.7
	VEGETAL	3.253	16.50	123.9	TERRAPLEN	0.060	0.30	1.8

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
31.511	EXC SUELO 2	8.858	13.85	478.7	SUEL-EST3 TERR	2.695	4.07	105.8
	VEGETAL	3.243	4.91	128.8	TERRAPLEN	0.058	0.09	1.9
35.000	EXC SUELO 2	6.424	26.66	505.4	SUEL-EST3 TERR	2.695	9.40	115.2
	VEGETAL	3.158	11.17	140.0	TERRAPLEN	0.058	0.20	2.1
38.600	EXC SUELO 2	4.911	20.40	525.8	SUEL-EST3 TERR	2.695	9.70	124.9
	VEGETAL	3.116	11.29	151.3	TERRAPLEN	0.066	0.22	2.3
40.000	EXC SUELO 2	4.539	6.62	532.4	SUEL-EST3 TERR	2.695	3.77	128.7
	VEGETAL	3.114	4.36	155.6	TERRAPLEN	0.066	0.09	2.4
45.000	EXC SUELO 2	3.020	18.90	551.3	SUEL-EST3 TERR	2.715	13.52	142.2
	VEGETAL	2.990	15.26	170.9	TERRAPLEN	0.045	0.28	2.7
46.245	EXC SUELO 2	3.211	3.88	555.2	SUEL-EST3 TERR	2.724	3.39	145.6
	VEGETAL	2.993	3.72	174.6	TERRAPLEN	0.050	0.06	2.7
50.000	EXC SUELO 2	2.715	11.13	566.3	SUEL-EST3 TERR	2.731	10.24	155.8
	VEGETAL	3.000	11.25	185.8	TERRAPLEN	0.081	0.25	3.0
55.000	EXC SUELO 2	2.438	12.88	579.2	SUEL-EST3 TERR	2.712	13.61	169.4
	VEGETAL	3.025	15.06	200.9	TERRAPLEN	0.039	0.30	3.3
60.000	EXC SUELO 2	3.687	15.31	594.5	SUEL-EST3 TERR	2.700	13.53	183.0
	VEGETAL	3.186	15.53	216.4	TERRAPLEN	0.071	0.28	3.6
63.868	EXC SUELO 2	6.907	20.49	615.0	SUEL-EST3 TERR	2.700	10.44	193.4
	VEGETAL	4.297	14.47	230.9	TERRAPLEN	0.106	0.34	3.9

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	615.0
SUEL-EST3 TERR	193.4
VEGETAL	230.9
TERRAPLEN	3.9

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	EXC SUELO 2	4.876	0.00	0.0	SUELO ADECUADO	1.940	0.00	0.0
	VEGETAL	2.869	0.00	0.0	TERRAPLEN	0.849	0.00	0.0
5.000	EXC SUELO 2	50.406	138.21	138.2	SUELO ADECUADO	1.942	9.70	9.7
	VEGETAL	4.952	19.55	19.6	TERRAPLEN	0.000	2.12	2.1
10.000	EXC SUELO 2	54.316	261.81	400.0	SUELO ADECUADO	1.942	9.71	19.4
	VEGETAL	5.350	25.75	45.3				
15.000	EXC SUELO 2	53.725	270.10	670.1	SUELO ADECUADO	1.936	9.70	29.1
	VEGETAL	5.378	26.82	72.1				
17.054	EXC SUELO 2	50.962	107.51	777.6	SUELO ADECUADO	1.934	3.98	33.1
	VEGETAL	5.263	10.93	83.1				
20.000	EXC SUELO 2	48.944	147.16	924.8	SUELO ADECUADO	1.932	5.69	38.8
	VEGETAL	5.178	15.38	98.4				
25.000	EXC SUELO 2	47.102	240.12	1164.9	SUELO ADECUADO	1.928	9.65	48.4
	VEGETAL	5.100	25.69	124.1				
30.000	EXC SUELO 2	44.749	229.63	1394.5	SUELO ADECUADO	1.924	9.63	58.1
	VEGETAL	4.996	25.24	149.4				
35.000	EXC SUELO 2	45.211	224.90	1619.4	SUELO ADECUADO	1.921	9.61	67.7
	VEGETAL	4.933	24.82	174.2				
40.000	EXC SUELO 2	43.904	222.79	1842.2	SUELO ADECUADO	1.919	9.60	77.3
	VEGETAL	4.888	24.55	198.7				
45.000	EXC SUELO 2	42.551	216.14	2058.4	SUELO ADECUADO	1.917	9.59	86.9
	VEGETAL	4.796	24.21	223.0				
50.000	EXC SUELO 2	41.604	210.39	2268.7	SUELO ADECUADO	1.916	9.58	96.4
	VEGETAL	4.709	23.76	246.7				
55.000	EXC SUELO 2	39.236	202.10	2470.8	SUELO ADECUADO	1.915	9.58	106.0
	VEGETAL	4.656	23.41	270.1				
60.000	EXC SUELO 2	36.212	188.62	2659.5	SUELO ADECUADO	1.914	9.57	115.6
	VEGETAL	4.533	22.97	293.1				
65.000	EXC SUELO 2	33.499	174.28	2833.7	SUELO ADECUADO	1.914	9.57	125.2
	VEGETAL	4.343	22.19	315.3				
70.000	EXC SUELO 2	31.261	161.90	2995.6	SUELO ADECUADO	1.914	9.57	134.7
	VEGETAL	4.236	21.45	336.7				
75.000	EXC SUELO 2	25.672	142.33	3138.0	SUELO ADECUADO	1.914	9.57	144.3
	VEGETAL	4.018	20.63	357.4				
80.000	EXC SUELO 2	18.370	110.10	3248.1	SUELO ADECUADO	1.914	9.57	153.9
	VEGETAL	3.697	19.29	376.7				
85.000	EXC SUELO 2	14.738	82.77	3330.8	SUELO ADECUADO	1.914	9.57	163.4
	VEGETAL	3.494	17.98	394.6	TERRAPLEN	0.028	0.07	2.2

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
90.000	EXC SUELO 2	12.599	68.34	3399.2	SUELO ADECUADO	1.909	9.56	173.0
	VEGETAL	3.720	18.04	412.7	TERRAPLEN	0.796	2.06	4.3
95.000	EXC SUELO 2	12.124	61.81	3461.0	SUELO ADECUADO	1.909	9.55	182.5
	VEGETAL	3.372	17.73	430.4	TERRAPLEN	0.328	2.81	7.1
100.000	EXC SUELO 2	12.617	61.85	3522.8	SUELO ADECUADO	1.909	9.55	192.1
	VEGETAL	3.451	17.06	447.5	TERRAPLEN	0.527	2.14	9.2
105.000	EXC SUELO 2	12.452	62.67	3585.5	SUELO ADECUADO	1.909	9.55	201.6
	VEGETAL	3.401	17.13	464.6	TERRAPLEN	0.523	2.63	11.8
110.000	EXC SUELO 2	7.422	49.69	3635.2	SUELO ADECUADO	1.909	9.55	211.2
	VEGETAL	3.324	16.81	481.4	TERRAPLEN	1.138	4.15	16.0
115.000	EXC SUELO 2	3.450	27.18	3662.4	SUELO ADECUADO	1.909	9.55	220.7
	VEGETAL	3.526	17.13	498.5	TERRAPLEN	3.072	10.52	26.5
119.532	EXC SUELO 2	0.412	8.75	3671.1	SUELO ADECUADO	1.909	8.65	229.4
	VEGETAL	4.610	18.44	517.0	TERRAPLEN	11.123	32.17	58.7
120.000	EXC SUELO 2	0.255	0.16	3671.3	SUELO ADECUADO	1.909	0.89	230.3
	VEGETAL	4.650	2.17	519.1	TERRAPLEN	12.326	5.49	64.2
125.000	EXC SUELO 2	0.000	0.64	3671.9	SUELO ADECUADO	1.905	9.54	239.8
	VEGETAL	5.185	24.59	543.7	TERRAPLEN	28.833	102.90	167.1
130.000	SUELO ADECUADO	1.905	9.53	249.3	VEGETAL	5.781	27.42	571.1
	TERRAPLEN	43.996	182.07	349.1				
135.000	SUELO ADECUADO	1.905	9.53	258.9	VEGETAL	6.390	30.43	601.6
	TERRAPLEN	62.469	266.16	615.3				
139.681	SUELO ADECUADO	1.905	8.92	267.8	VEGETAL	7.231	31.88	633.4
	TERRAPLEN	86.025	347.55	962.8				
140.000	SUELO ADECUADO	1.905	0.61	268.4	VEGETAL	7.292	2.32	635.8
	TERRAPLEN	87.772	27.72	990.6				
145.000	SUELO ADECUADO	1.905	9.53	277.9	VEGETAL	7.954	38.11	673.9
	TERRAPLEN	112.985	501.89	1492.4				
150.000	SUELO ADECUADO	1.905	9.53	287.5	VEGETAL	7.549	38.76	712.6
	TERRAPLEN	91.637	511.56	2004.0				
155.000	SUELO ADECUADO	1.905	9.53	297.0	VEGETAL	5.811	33.40	746.0
	TERRAPLEN	54.565	365.51	2369.5				
160.000	SUELO ADECUADO	1.905	9.53	306.5	VEGETAL	4.883	26.74	772.8
	TERRAPLEN	34.136	221.75	2591.3				
165.000	SUELO ADECUADO	1.905	9.53	316.0	VEGETAL	4.528	23.53	796.3
	TERRAPLEN	27.188	153.31	2744.6				
170.000	SUELO ADECUADO	1.905	9.53	325.6	VEGETAL	4.527	22.64	818.9
	TERRAPLEN	25.508	131.74	2876.3				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
175.000	SUELO ADECUADO	1.892	9.49	335.0	VEGETAL	4.502	22.57	841.5
	TERRAPLEN	21.146	116.63	2993.0				
180.000	EXC SUELO 2	0.527	1.32	3673.2	SUELO ADECUADO	1.909	9.50	344.6
	VEGETAL	5.152	24.14	865.6	TERRAPLEN	19.714	102.15	3095.1
185.000	EXC SUELO 2	0.204	1.83	3675.1	SUELO ADECUADO	1.909	9.55	354.1
	VEGETAL	5.648	27.00	892.6	TERRAPLEN	25.406	112.80	3207.9
190.000	EXC SUELO 2	0.000	0.51	3675.6	SUELO ADECUADO	1.905	9.54	363.6
	VEGETAL	5.268	27.29	919.9	TERRAPLEN	33.634	147.60	3355.5
195.000	SUELO ADECUADO	1.905	9.53	373.2	VEGETAL	5.503	26.93	946.9
	TERRAPLEN	44.166	194.50	3550.0				
200.000	SUELO ADECUADO	1.905	9.53	382.7	VEGETAL	5.819	28.31	975.2
	TERRAPLEN	54.268	246.09	3796.1				
204.830	SUELO ADECUADO	1.905	9.20	391.9	VEGETAL	5.895	28.29	1003.5
	TERRAPLEN	61.715	280.10	4076.2				
205.000	SUELO ADECUADO	1.905	0.32	392.2	VEGETAL	5.897	1.00	1004.5
	TERRAPLEN	61.969	10.51	4086.7				
210.000	SUELO ADECUADO	1.905	9.53	401.7	VEGETAL	5.573	28.67	1033.1
	TERRAPLEN	54.731	291.75	4378.5				
210.001	SUELO ADECUADO	1.905	0.00	401.7	VEGETAL	5.573	0.01	1033.1
	TERRAPLEN	54.728	0.05	4378.5				
215.000	SUELO ADECUADO	1.905	9.52	411.3	VEGETAL	4.145	24.29	1057.4
	TERRAPLEN	26.904	204.04	4582.5				
220.000	SUELO ADECUADO	1.905	9.53	420.8	VEGETAL	2.809	17.38	1074.8
	TERRAPLEN	9.673	91.44	4674.0				
225.000	SUELO ADECUADO	1.905	9.53	430.3	VEGETAL	2.361	12.92	1087.7
	TERRAPLEN	4.982	36.64	4710.6				
230.000	EXC SUELO 2	6.456	16.14	3691.7	SUELO ADECUADO	1.915	9.55	439.9
	VEGETAL	2.798	12.90	1100.6	TERRAPLEN	0.000	12.45	4723.1
235.000	EXC SUELO 2	7.333	34.47	3726.2	SUELO ADECUADO	1.914	9.57	449.4
	VEGETAL	2.809	14.02	1114.6				
240.000	EXC SUELO 2	19.596	67.32	3793.5	SUELO ADECUADO	1.914	9.57	459.0
	VEGETAL	3.378	15.47	1130.1				
245.000	EXC SUELO 2	32.793	130.97	3924.5	SUELO ADECUADO	1.914	9.57	468.6
	VEGETAL	4.469	19.62	1149.7				
250.000	EXC SUELO 2	48.294	202.72	4127.2	SUELO ADECUADO	1.914	9.57	478.2
	VEGETAL	5.145	24.04	1173.8				
255.000	EXC SUELO 2	61.705	275.00	4402.2	SUELO ADECUADO	1.914	9.57	487.7
	VEGETAL	5.528	26.68	1200.5				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
260.000	EXC SUELO 2	67.701	323.51	4725.7	SUELO ADECUADO	1.914	9.57	497.3
	VEGETAL	5.796	28.31	1228.8				
265.000	EXC SUELO 2	59.921	319.06	5044.8	SUELO ADECUADO	1.914	9.57	506.9
	VEGETAL	5.482	28.20	1257.0				
270.000	EXC SUELO 2	34.883	237.01	5281.8	SUELO ADECUADO	1.914	9.57	516.4
	VEGETAL	4.353	24.59	1281.5				
275.000	EXC SUELO 2	13.305	120.47	5402.3	SUELO ADECUADO	1.914	9.57	526.0
	VEGETAL	3.270	19.06	1300.6				
277.280	EXC SUELO 2	6.936	23.08	5425.3	SUELO ADECUADO	1.915	4.37	530.4
	VEGETAL	2.896	7.03	1307.6	TERRAPLEN	0.005	0.01	4723.1
280.000	EXC SUELO 2	3.718	14.49	5439.8	SUELO ADECUADO	1.911	5.20	535.6
	VEGETAL	2.948	7.95	1315.6	TERRAPLEN	1.398	1.91	4725.0
285.000	EXC SUELO 2	0.897	11.54	5451.4	SUELO ADECUADO	1.911	9.55	545.1
	VEGETAL	3.351	15.75	1331.3	TERRAPLEN	6.124	18.80	4743.8
290.000	EXC SUELO 2	0.178	2.69	5454.1	SUELO ADECUADO	1.911	9.55	554.7
	VEGETAL	3.372	16.81	1348.1	TERRAPLEN	8.912	37.59	4781.4
295.000	EXC SUELO 2	0.141	0.80	5454.8	SUELO ADECUADO	1.911	9.55	564.2
	VEGETAL	3.499	17.18	1365.3	TERRAPLEN	10.731	49.11	4830.5
300.000	EXC SUELO 2	0.000	0.35	5455.2	SUELO ADECUADO	1.893	9.51	573.8
	VEGETAL	3.650	17.87	1383.2	TERRAPLEN	14.143	62.19	4892.7
305.000	SUELO ADECUADO	1.879	9.43	583.2	VEGETAL	3.574	18.06	1401.2
	TERRAPLEN	9.923	60.17	4952.8				
310.000	SUELO ADECUADO	1.882	9.40	592.6	VEGETAL	2.390	14.91	1416.2
	TERRAPLEN	4.919	37.10	4989.9				
315.000	EXC SUELO 2	0.166	0.41	5455.6	SUELO ADECUADO	1.911	9.48	602.1
	VEGETAL	2.490	12.20	1428.4	TERRAPLEN	2.691	19.03	5009.0
317.238	EXC SUELO 2	0.258	0.47	5456.1	SUELO ADECUADO	1.911	4.28	606.3
	VEGETAL	2.422	5.50	1433.9	TERRAPLEN	1.691	4.90	5013.9
320.000	EXC SUELO 2	1.287	2.13	5458.2	SUELO ADECUADO	1.911	5.28	611.6
	VEGETAL	2.530	6.84	1440.7	TERRAPLEN	1.165	3.94	5017.8
325.000	EXC SUELO 2	4.140	13.57	5471.8	SUELO ADECUADO	1.911	9.55	621.2
	VEGETAL	2.795	13.31	1454.0	TERRAPLEN	0.762	4.82	5022.6
330.000	EXC SUELO 2	8.395	31.34	5503.1	SUELO ADECUADO	1.908	9.55	630.7
	VEGETAL	3.009	14.51	1468.5	TERRAPLEN	0.103	2.16	5024.8
335.000	EXC SUELO 2	10.400	46.99	5550.1	SUELO ADECUADO	1.911	9.55	640.3
	VEGETAL	3.412	16.05	1484.6	TERRAPLEN	0.468	1.43	5026.2
340.000	EXC SUELO 2	6.039	41.10	5591.2	SUELO ADECUADO	1.911	9.55	649.8
	VEGETAL	3.349	16.90	1501.5	TERRAPLEN	1.303	4.43	5030.7

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
345.000	EXC SUELO 2	4.735	26.94	5618.2	SUELO ADECUADO	1.911	9.55	659.4
	VEGETAL	3.021	15.92	1517.4	TERRAPLEN	0.759	5.16	5035.8
350.000	EXC SUELO 2	4.928	24.16	5642.3	SUELO ADECUADO	1.911	9.55	668.9
	VEGETAL	2.788	14.52	1531.9	TERRAPLEN	0.253	2.53	5038.3
355.000	EXC SUELO 2	11.923	42.13	5684.4	SUELO ADECUADO	1.914	9.56	678.5
	VEGETAL	3.250	15.10	1547.0	TERRAPLEN	0.000	0.63	5039.0
360.000	EXC SUELO 2	19.239	77.90	5762.3	SUELO ADECUADO	1.914	9.57	688.1
	VEGETAL	4.034	18.21	1565.2				
363.289	EXC SUELO 2	24.449	71.84	5834.2	SUELO ADECUADO	1.914	6.30	694.4
	VEGETAL	4.331	13.76	1579.0				
365.000	EXC SUELO 2	26.025	43.18	5877.4	SUELO ADECUADO	1.914	3.28	697.6
	VEGETAL	4.360	7.44	1586.4				
370.000	EXC SUELO 2	31.774	144.50	6021.9	SUELO ADECUADO	1.914	9.57	707.2
	VEGETAL	4.632	22.48	1608.9				
375.000	EXC SUELO 2	42.063	184.59	6206.5	SUELO ADECUADO	1.914	9.57	716.8
	VEGETAL	5.030	24.16	1633.1				
380.000	EXC SUELO 2	47.789	224.63	6431.1	SUELO ADECUADO	1.914	9.57	726.4
	VEGETAL	5.181	25.53	1658.6				
385.000	EXC SUELO 2	53.160	252.37	6683.5	SUELO ADECUADO	1.914	9.57	735.9
	VEGETAL	5.435	26.54	1685.1				
390.000	EXC SUELO 2	55.097	270.64	6954.1	SUELO ADECUADO	1.914	9.57	745.5
	VEGETAL	5.496	27.33	1712.4				
395.000	EXC SUELO 2	54.444	273.85	7228.0	SUELO ADECUADO	1.914	9.57	755.1
	VEGETAL	5.510	27.51	1740.0				
400.000	EXC SUELO 2	53.266	269.27	7497.2	SUELO ADECUADO	1.914	9.57	764.6
	VEGETAL	5.515	27.56	1767.5				
405.000	EXC SUELO 2	50.520	259.46	7756.7	SUELO ADECUADO	1.914	9.57	774.2
	VEGETAL	5.470	27.46	1795.0				
410.000	EXC SUELO 2	49.260	249.45	8006.2	SUELO ADECUADO	1.914	9.57	783.8
	VEGETAL	5.610	27.70	1822.7				
415.000	EXC SUELO 2	52.578	254.60	8260.7	SUELO ADECUADO	1.914	9.57	793.4
	VEGETAL	5.586	27.99	1850.7				
420.000	EXC SUELO 2	53.149	264.32	8525.1	SUELO ADECUADO	1.914	9.57	802.9
	VEGETAL	5.533	27.80	1878.5				
423.662	EXC SUELO 2	50.945	190.60	8715.7	SUELO ADECUADO	1.914	7.01	809.9
	VEGETAL	5.474	20.15	1898.6				
425.000	EXC SUELO 2	50.741	68.03	8783.7	SUELO ADECUADO	1.914	2.56	812.5
	VEGETAL	5.473	7.32	1906.0				

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
430.000	EXC SUELO 2	50.892	254.08	9037.8	SUELO ADECUADO	1.914	9.57	822.1
	VEGETAL	5.595	27.67	1933.6				
435.000	EXC SUELO 2	49.057	249.87	9287.6	SUELO ADECUADO	1.914	9.57	831.6
	VEGETAL	5.518	27.78	1961.4				
440.000	EXC SUELO 2	41.322	225.95	9513.6	SUELO ADECUADO	1.914	9.57	841.2
	VEGETAL	5.170	26.72	1988.1				
445.000	EXC SUELO 2	26.312	169.08	9682.7	SUELO ADECUADO	1.914	9.57	850.8
	VEGETAL	4.215	23.46	2011.6				
450.000	EXC SUELO 2	9.755	90.17	9772.8	SUELO ADECUADO	1.911	9.56	860.4
	VEGETAL	3.990	20.51	2032.1	TERRAPLEN	1.861	4.65	5043.6
455.000	EXC SUELO 2	0.597	25.88	9798.7	SUELO ADECUADO	1.911	9.55	869.9
	VEGETAL	4.765	21.89	2054.0	TERRAPLEN	16.464	45.81	5089.4
455.880	EXC SUELO 2	0.000	0.26	9799.0	SUELO ADECUADO	1.864	1.66	871.6
	VEGETAL	4.358	4.01	2058.0	TERRAPLEN	20.509	16.27	5105.7
460.000	SUELO ADECUADO	1.905	7.76	879.3	VEGETAL	6.637	22.65	2080.7
	TERRAPLEN	51.358	148.05	5253.7				
465.000	SUELO ADECUADO	1.905	9.53	888.9	VEGETAL	8.786	38.56	2119.2
	TERRAPLEN	90.982	355.85	5609.6				
469.099	SUELO ADECUADO	1.905	7.81	896.7	VEGETAL	8.955	36.36	2155.6
	TERRAPLEN	106.116	403.95	6013.6				
470.000	SUELO ADECUADO	1.905	1.72	898.4	VEGETAL	8.857	8.02	2163.6
	TERRAPLEN	104.187	94.74	6108.3				
475.000	SUELO ADECUADO	1.905	9.53	907.9	VEGETAL	7.713	41.42	2205.0
	TERRAPLEN	68.353	431.35	6539.6				
480.000	SUELO ADECUADO	1.905	9.53	917.4	VEGETAL	4.351	30.16	2235.2
	TERRAPLEN	29.731	245.21	6784.9				
485.000	SUELO ADECUADO	1.905	9.53	927.0	VEGETAL	2.335	16.71	2251.9
	TERRAPLEN	3.918	84.12	6869.0				
488.698	EXC SUELO 2	1.325	2.45	9801.4	SUELO ADECUADO	1.865	6.97	933.9
	VEGETAL	2.252	8.48	2260.4	TERRAPLEN	0.007	7.26	6876.2
490.000	EXC SUELO 2	1.280	1.70	9803.1	SUELO ADECUADO	1.844	2.41	936.3
	VEGETAL	2.276	2.95	2263.3				
495.000	EXC SUELO 2	1.988	8.17	9811.3	SUELO ADECUADO	1.442	8.21	944.6
	VEGETAL	2.399	11.69	2275.0				
496.348	EXC SUELO 2	1.258	2.19	9813.5	SUELO ADECUADO	1.347	1.88	946.4
	VEGETAL	1.604	2.70	2277.7	TERRAPLEN	0.015	0.01	6876.2
500.000	EXC SUELO 2	10.631	21.71	9835.2	SUELO ADECUADO	1.345	4.92	951.4
	VEGETAL	3.252	8.87	2286.6	TERRAPLEN	0.000	0.03	6876.3

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
500.392	EXC SUELO 2	10.239	4.09	9839.3	SUELO ADECUADO	1.346	0.53	951.9
	VEGETAL	3.216	1.27	2287.8				

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 2	9839.3
SUELO ADECUADO	951.9
VEGETAL	2287.8
TERRAPLEN	6876.3

CONEXIÓN PROVISIONAL

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1000.000	EXC SUELO 1	10.670	0.00	0.0	C TRANS PEDR	4.015	0.00	0.0
	COR RELL	4.133	0.00	0.0	PEDRAPLEN	0.181	0.00	0.0
	VEGETAL	8.911	0.00	0.0				
1020.000	EXC SUELO 1	0.235	78.42	78.4	C TRANS PEDR	4.251	76.20	76.2
	COR RELL	4.170	77.05	77.0	PEDRAPLEN	5.531	26.75	26.7
	VEGETAL	9.109	163.63	163.6				
1040.000	EXC SUELO 1	0.779	11.44	89.9	C TRANS PEDR	3.394	84.65	160.8
	COR RELL	3.454	84.16	161.2	PEDRAPLEN	2.221	184.76	211.5
	VEGETAL	7.151	191.81	355.4				
1060.000	EXC SUELO 1	0.000	81.30	171.2	C TRANS PEDR	3.894	80.40	241.2
	COR RELL	3.755	77.98	239.2	PEDRAPLEN	41.120	354.48	566.0
	VEGETAL	9.282	223.35	578.8				
1080.000	EXC SUELO 1	21.910	309.47	480.6	C TRANS PEDR	2.985	96.64	337.9
	COR RELL	3.045	96.48	335.7	PEDRAPLEN	0.000	224.90	790.9
	VEGETAL	11.974	253.97	832.8				
1100.000	EXC SUELO 1	63.631	637.31	1117.9	C TRANS PEDR	3.629	70.71	408.6
	COR RELL	3.688	71.96	407.6	PEDRAPLEN	0.000	1.91	792.8
	VEGETAL	20.772	333.03	1165.8				
1120.000	EXC ROCA 2	3.481	200.93	200.9	EXC SUELO 1	62.189	1535.67	2653.6
	C TRANS PEDR	3.431	84.65	493.3	COR RELL	3.491	85.83	493.5
	VEGETAL	17.253	401.41	1567.2				
1140.000	EXC ROCA 2	0.000	17.81	218.7	EXC SUELO 1	13.928	818.75	3472.4
	C TRANS PEDR	4.551	76.20	569.5	COR RELL	4.610	78.25	571.7
	PEDRAPLEN	0.004	0.00	792.8	VEGETAL	10.061	262.21	1829.4
1160.000	EXC SUELO 1	42.170	371.57	3843.9	C TRANS PEDR	4.592	100.67	670.1
	COR RELL	5.403	114.66	686.4	PEDRAPLEN	0.000	2.66	795.5
	VEGETAL	12.238	227.97	2057.4				
1180.000	EXC ROCA 2	4.578	49.84	268.6	EXC SUELO 1	56.379	1261.19	5105.1
	C TRANS PEDR	3.563	89.97	760.1	COR RELL	3.682	103.79	790.2
	PEDRAPLEN	0.066	0.17	795.6	VEGETAL	13.150	291.87	2349.3
1200.000	EXC ROCA 2	0.000	9.23	277.8	EXC SUELO 1	12.550	243.88	5349.0
	C TRANS PEDR	5.161	84.95	845.0	COR RELL	5.756	81.76	871.9
	PEDRAPLEN	24.864	470.73	1266.4	VEGETAL	15.412	245.79	2595.1
1220.000	EXC ROCA 2	8.925	139.09	416.9	EXC SUELO 1	65.640	1015.78	6364.8
	C TRANS PEDR	5.113	98.68	943.7	COR RELL	5.891	112.52	984.4
	PEDRAPLEN	0.000	126.55	1392.9	VEGETAL	14.683	293.24	2888.3

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1240.000	EXC ROCA 2	0.000	35.46	452.4	EXC SUELO 1	24.973	460.96	6825.7
	C TRANS PEDR	4.219	90.10	1033.8	COR RELL	4.338	93.09	1077.5
	PEDRAPLEN	0.000	73.51	1466.4	VEGETAL	16.802	217.91	3106.2
1260.000	EXC ROCA 2	0.513	0.28	452.6	EXC SUELO 1	64.537	957.54	7783.3
	C TRANS PEDR	5.026	82.26	1116.1	COR RELL	5.743	86.55	1164.1
	PEDRAPLEN	0.015	0.06	1466.5	VEGETAL	24.444	383.44	3489.6
1280.000	EXC ROCA 2	0.000	1.51	454.1	EXC SUELO 1	34.064	812.91	8596.2
	C TRANS PEDR	4.577	91.93	1208.0	COR RELL	5.372	102.60	1266.7
	PEDRAPLEN	0.687	4.66	1471.1	VEGETAL	19.321	444.15	3933.8
1295.310	EXC SUELO 1	10.670	311.07	8907.3	C TRANS PEDR	4.015	67.79	1275.8
	COR RELL	4.134	70.95	1337.6	PEDRAPLEN	0.181	4.17	1475.3
	VEGETAL	8.912	175.86	4109.7				

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 2	454.1
EXC SUELO 1	8907.3
C TRANS PEDR	1275.8
COR RELL	1337.6
PEDRAPLEN	1475.3
VEGETAL	4109.7

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P4 : Enlace de A Casilla. Eje-4 (OC7-14.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4093.038	EXC SUELO 1	30.744	0.00	0.0	C TRANS PEDR	7.921	0.00	0.0
	COR RELL	9.453	0.00	0.0	PEDRAPLEN	0.368	0.00	0.0
	VEGETAL	19.693	0.00	0.0				
4100.000	EXC SUELO 1	28.180	204.89	204.9	C TRANS PEDR	7.921	55.15	55.1
	COR RELL	9.453	65.81	65.8	PEDRAPLEN	0.543	3.11	3.1
	VEGETAL	20.189	138.80	138.8				
4120.000	EXC SUELO 1	19.972	477.33	682.2	C TRANS PEDR	7.921	158.43	213.6
	COR RELL	9.453	189.06	254.9	PEDRAPLEN	1.425	19.30	22.4
	VEGETAL	18.362	385.03	523.8				
4140.000	EXC SUELO 1	15.027	346.88	1029.1	C TRANS PEDR	8.096	160.18	373.8
	COR RELL	8.513	182.51	437.4	PEDRAPLEN	1.815	31.04	53.5
	VEGETAL	16.650	350.86	874.7				
4160.000	EXC SUELO 1	11.899	277.95	1307.0	C TRANS PEDR	7.439	159.79	533.5
	COR RELL	7.224	163.66	601.0	PEDRAPLEN	1.476	29.52	83.0
	VEGETAL	15.179	343.22	1217.9				
4180.000	EXC SUELO 1	9.433	214.69	1521.7	C TRANS PEDR	7.283	148.22	681.8
	COR RELL	7.466	147.60	748.6	PEDRAPLEN	0.326	17.81	100.8
	VEGETAL	14.983	300.94	1518.9				
4200.000	EXC SUELO 1	6.426	156.88	1678.6	C TRANS PEDR	6.989	143.06	824.8
	COR RELL	7.106	145.51	894.2	PEDRAPLEN	0.261	5.13	105.9
	VEGETAL	14.411	295.60	1814.5				
4220.000	EXC SUELO 1	4.606	104.82	1783.4	C TRANS PEDR	6.776	131.79	956.6
	COR RELL	6.894	134.14	1028.3	PEDRAPLEN	0.219	4.63	110.5
	VEGETAL	14.059	273.82	2088.3				
4240.000	EXC SUELO 1	7.432	118.69	1902.1	C TRANS PEDR	7.236	139.72	1096.3
	COR RELL	7.353	142.06	1170.4	PEDRAPLEN	0.216	4.35	114.9
	VEGETAL	15.110	290.88	2379.2				

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P4 : Enlace de A Casilla. Eje-4 (OC7-14.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	1902.1
C TRANS PEDR	1096.3
COR RELL	1170.4
PEDRAPLEN	114.9
VEGETAL	2379.2

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P5 : Enlace de A Casilla. Eje-5 (OC7-15.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
5101.075	C TRANS PEDR	5.441	0.00	0.0	COR RELL	5.163	0.00	0.0
	PEDRAPLEN	27.416	0.00	0.0	VEGETAL	12.626	0.00	0.0
5120.000	C TRANS PEDR	5.432	102.84	102.8	COR RELL	5.154	97.58	97.6
	PEDRAPLEN	17.493	416.72	416.7	VEGETAL	11.849	230.12	230.1
5140.000	C TRANS PEDR	5.385	108.47	211.3	COR RELL	5.153	103.08	200.7
	PEDRAPLEN	8.881	262.03	678.7	VEGETAL	11.279	231.19	461.3
5160.000	C TRANS PEDR	5.152	105.31	316.6	COR RELL	5.072	102.60	303.3
	PEDRAPLEN	2.923	113.07	791.8	VEGETAL	10.851	220.93	682.2
5180.000	EXC SUELO 1	1.907	16.75	16.8	C TRANS PEDR	5.016	101.68	418.3
	COR RELL	4.953	100.13	403.4	PEDRAPLEN	0.657	29.34	821.1
	VEGETAL	10.332	211.85	894.1				
5200.000	EXC SUELO 1	2.963	51.74	68.5	C TRANS PEDR	5.003	100.16	518.5
	COR RELL	4.924	98.62	502.0	PEDRAPLEN	2.132	27.32	848.5
	VEGETAL	10.844	212.69	1106.8				

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P5 : Enlace de A Casilla. Eje-5 (OC7-15.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	68.5
C TRANS PEDR	518.5
COR RELL	502.0
PEDRAPLEN	848.5
VEGETAL	1106.8

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1
PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P6 : Enlace de A Casilla. Eje-6 (OC7-16.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
6064.616	EXC SUELO 1	14.464	0.00	0.0	C TRANS PEDR	5.552	0.00	0.0
	COR RELL	6.389	0.00	0.0	PEDRAPLEN	0.094	0.00	0.0
	VEGETAL	14.642	0.00	0.0				
6080.000	EXC SUELO 1	11.074	209.48	209.5	C TRANS PEDR	5.224	82.64	82.6
	COR RELL	6.022	95.22	95.2	PEDRAPLEN	0.102	1.50	1.5
	VEGETAL	13.691	218.02	218.0				
6100.000	EXC SUELO 1	13.298	188.69	398.2	C TRANS PEDR	5.942	109.84	192.5
	COR RELL	7.279	120.08	215.3	PEDRAPLEN	0.010	2.55	4.1
	VEGETAL	15.023	254.23	472.2				
6120.000	EXC SUELO 1	16.245	310.13	708.3	C TRANS PEDR	5.910	118.55	311.0
	COR RELL	7.200	144.97	360.3	PEDRAPLEN	0.056	1.79	5.8
	VEGETAL	15.230	305.60	777.8				
6140.000	EXC SUELO 1	12.167	283.27	991.6	C TRANS PEDR	4.771	109.33	420.4
	COR RELL	5.481	125.43	485.7	PEDRAPLEN	0.124	1.77	7.6
	VEGETAL	12.181	276.66	1054.5				
6145.283	EXC SUELO 1	10.787	60.62	1052.2	C TRANS PEDR	4.693	25.00	445.4
	COR RELL	5.407	28.76	514.4	PEDRAPLEN	0.267	1.03	8.6
	VEGETAL	11.836	63.44	1117.9				

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1
PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P6 : Enlace de A Casilla. Eje-6 (OC7-16.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	1052.2
C TRANS PEDR	445.4
COR RELL	514.4
PEDRAPLEN	8.6
VEGETAL	1117.9

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P7 : Enlace de A Casilla. Eje-7 (OC7-17.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7021.376	EXC ROCA 2	8.197	0.00	0.0	EXC SUELO 1	35.716	0.00	0.0
	C TRANS PEDR	3.151	0.00	0.0	COR RELL	3.151	0.00	0.0
	VEGETAL	6.303	0.00	0.0				
7040.000	EXC ROCA 2	0.000	52.44	52.4	EXC SUELO 1	27.310	699.76	699.8
	C TRANS PEDR	2.737	63.61	63.6	COR RELL	2.736	64.83	64.8
	VEGETAL	5.473	127.31	127.3				
7060.000	EXC ROCA 2	1.755	0.67	53.1	EXC SUELO 1	54.060	359.99	1059.8
	C TRANS PEDR	4.304	39.88	103.5	COR RELL	5.111	40.18	105.0
	VEGETAL	11.707	80.93	208.2				
7080.000	EXC ROCA 2	0.000	8.92	62.0	EXC SUELO 1	37.176	920.00	1979.8
	C TRANS PEDR	3.987	82.05	185.5	COR RELL	4.793	98.18	203.2
	VEGETAL	10.367	218.77	427.0				
7100.000	EXC SUELO 1	25.435	624.56	2604.3	C TRANS PEDR	3.954	79.31	264.8
	COR RELL	4.760	95.43	298.6	VEGETAL	9.674	200.16	627.2
7113.816	EXC SUELO 1	20.689	318.36	2922.7	C TRANS PEDR	3.953	54.61	319.5
	COR RELL	4.759	65.75	364.4	VEGETAL	9.309	131.09	758.3

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P7 : Enlace de A Casilla. Eje-7 (OC7-17.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 2	62.0
EXC SUELO 1	2922.7
C TRANS PEDR	319.5
COR RELL	364.4
VEGETAL	758.3

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P8 : Enlace de A Casilla. Eje-8 (OC7-18.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8000.000	EXC SUELO 1	10.062	0.00	0.0	C TRANS PEDR	3.968	0.00	0.0
	COR RELL	4.694	0.00	0.0	PEDRAPLEN	0.368	0.00	0.0
	VEGETAL	10.385	0.00	0.0				
8020.000	EXC SUELO 1	7.061	138.30	138.3	C TRANS PEDR	3.655	76.41	76.4
	COR RELL	3.783	85.26	85.3	PEDRAPLEN	0.146	3.43	3.4
	VEGETAL	8.174	178.77	178.8				
8040.000	EXC SUELO 1	12.254	191.93	330.2	C TRANS PEDR	3.802	74.43	150.8
	COR RELL	4.033	78.03	163.3	PEDRAPLEN	0.140	2.86	6.3
	VEGETAL	8.301	164.44	343.2				
8040.000	EXC SUELO 1	13.336	0.00	330.2	C TRANS PEDR	4.050	0.00	150.8
	COR RELL	4.705	0.00	163.3	VEGETAL	9.002	0.00	343.2
8060.000	EXC SUELO 1	44.343	603.38	933.6	C TRANS PEDR	4.334	83.01	233.8
	COR RELL	5.073	96.01	259.3	PEDRAPLEN	0.000	0.08	6.4
	VEGETAL	10.808	185.37	528.6				
8080.000	EXC SUELO 1	58.736	849.95	1783.6	C TRANS PEDR	5.746	97.75	331.6
	COR RELL	6.482	112.05	371.4	PEDRAPLEN	0.000	0.04	6.4
	VEGETAL	13.507	231.00	759.6				
8092.197	EXC SUELO 1	32.455	593.25	2376.8	C TRANS PEDR	6.078	65.75	397.3
	COR RELL	7.344	74.75	446.1	PEDRAPLEN	0.025	0.03	6.4
	VEGETAL	15.090	154.17	913.8				

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P8 : Enlace de A Casilla. Eje-8 (OC7-18.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	2376.8
C TRANS PEDR	397.3
COR RELL	446.1
PEDRAPLEN	6.4
VEGETAL	913.8

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P10 : Enlace de A Casilla. Eje-10 (OC7_REV2-20.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
10025.392	C TRANS PEDR	3.745	0.00	0.0	COR RELL	3.628	0.00	0.0
	PEDRAPLEN	22.700	0.00	0.0	VEGETAL	9.413	0.00	0.0
10040.000	C TRANS PEDR	3.700	53.37	53.4	COR RELL	3.416	50.30	50.3
	PEDRAPLEN	35.307	427.67	427.7	VEGETAL	10.774	143.58	143.6
10060.000	C TRANS PEDR	3.041	69.56	122.9	COR RELL	2.895	64.89	115.2
	PEDRAPLEN	31.585	691.78	1119.4	VEGETAL	8.359	195.91	339.5
10080.000	C TRANS PEDR	2.442	53.94	176.9	COR RELL	2.297	51.02	166.2
	PEDRAPLEN	23.794	556.79	1676.2	VEGETAL	6.949	151.24	490.7
10100.000	C TRANS PEDR	2.243	46.55	223.4	COR RELL	2.103	43.69	209.9
	PEDRAPLEN	17.990	415.48	2091.7	VEGETAL	6.591	135.39	626.1
10120.000	C TRANS PEDR	2.193	44.18	267.6	COR RELL	2.054	41.39	251.3
	PEDRAPLEN	12.723	305.36	2397.1	VEGETAL	5.605	120.98	747.1
10129.277	C TRANS PEDR	2.191	20.33	287.9	COR RELL	2.052	19.04	270.3
	PEDRAPLEN	10.496	107.72	2504.8	VEGETAL	5.249	50.42	797.5

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P10 : Enlace de A Casilla. Eje-10 (OC7_REV2-20.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
C TRANS PEDR	287.9
COR RELL	270.3
PEDRAPLEN	2504.8
VEGETAL	797.5

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P11 : Enlace de A Casilla. Eje-11 (OC7-21_m.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
11000.000	C TRANS PEDR	2.200	0.00	0.0	COR RELL	2.061	0.00	0.0
	PEDRAPLEN	11.352	0.00	0.0	VEGETAL	5.348	0.00	0.0
11020.000	C TRANS PEDR	1.055	23.91	23.9	COR RELL	1.055	23.56	23.6
	PEDRAPLEN	6.214	124.16	124.2	VEGETAL	2.111	50.18	50.2
11040.000	C TRANS PEDR	1.109	21.46	45.4	COR RELL	1.109	21.46	45.0
	PEDRAPLEN	7.841	140.59	264.8	VEGETAL	2.217	42.93	93.1
11060.000	C TRANS PEDR	1.486	25.14	70.5	COR RELL	1.486	25.14	70.2
	PEDRAPLEN	11.729	188.79	453.5	VEGETAL	2.972	50.28	143.4
11080.000	C TRANS PEDR	3.045	44.21	114.7	COR RELL	2.906	43.48	113.6
	PEDRAPLEN	28.258	371.37	824.9	VEGETAL	6.690	89.66	233.0
11098.928	EXC SUELO 1	0.531	0.68	0.7	C TRANS PEDR	4.339	67.96	182.7
	COR RELL	4.200	65.92	179.6	PEDRAPLEN	34.269	621.40	1446.3
	VEGETAL	10.866	154.11	387.2				

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P11 : Enlace de A Casilla. Eje-11 (OC7-21_m.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	0.7
C TRANS PEDR	182.7
COR RELL	179.6
PEDRAPLEN	1446.3
VEGETAL	387.2

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P13 : Enlace de A Casilla. Eje-13 (OC7-23.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
13022.184	EXC ROCA 2	0.177	0.00	0.0	EXC SUELO 1	44.050	0.00	0.0
	C TRANS PEDR	3.983	0.00	0.0	COR RELL	4.674	0.00	0.0
	VEGETAL	10.539	0.00	0.0				
13040.000	EXC ROCA 2	0.000	0.31	0.3	EXC SUELO 1	24.784	600.20	600.2
	C TRANS PEDR	4.702	82.07	82.1	COR RELL	5.367	93.73	93.7
	PEDRAPLEN	3.367	54.72	54.7	VEGETAL	11.862	209.05	209.0
13060.000	EXC SUELO 1	5.643	262.67	862.9	C TRANS PEDR	3.394	80.75	162.8
	COR RELL	4.027	93.73	187.5	PEDRAPLEN	2.745	61.69	116.4
	VEGETAL	8.667	205.07	414.1				
13080.000	EXC SUELO 1	1.862	45.46	908.3	C TRANS PEDR	2.123	50.05	212.9
	COR RELL	2.146	50.67	238.1	PEDRAPLEN	0.254	35.83	152.2
	VEGETAL	4.352	108.93	523.1				
13086.250	EXC SUELO 1	13.217	19.47	927.8	C TRANS PEDR	4.566	13.63	226.5
	COR RELL	5.009	14.47	252.6	PEDRAPLEN	0.078	0.91	153.1
	VEGETAL	12.498	31.09	554.1				

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P13 : Enlace de A Casilla. Eje-13 (OC7-23.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC ROCA 2	0.3
EXC SUELO 1	927.8
C TRANS PEDR	226.5
COR RELL	252.6
PEDRAPLEN	153.1
VEGETAL	554.1

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P14 : Enlace de A Casilla. Eje-14 (OC7-24.vol)

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
14000.000	EXC SUELO 1	4.765	0.00	0.0	C TRANS PEDR	2.563	0.00	0.0
	COR RELL	2.623	0.00	0.0	PEDRAPLEN	0.094	0.00	0.0
	VEGETAL	5.467	0.00	0.0				
14020.000	EXC SUELO 1	9.300	133.74	133.7	C TRANS PEDR	3.112	57.22	57.2
	COR RELL	3.749	57.14	57.1	PEDRAPLEN	0.038	1.44	1.4
	VEGETAL	6.687	120.47	120.5				
14040.000	EXC SUELO 1	17.459	251.54	385.3	C TRANS PEDR	3.829	67.60	124.8
	COR RELL	4.477	80.68	137.8	PEDRAPLEN	0.000	0.15	1.6
	VEGETAL	8.471	148.43	268.9				
14060.000	EXC SUELO 1	30.661	538.03	923.3	C TRANS PEDR	3.889	90.80	215.6
	COR RELL	3.949	105.59	243.4	PEDRAPLEN	0.000	0.18	1.8
	VEGETAL	8.858	199.84	468.7				
14064.203	EXC SUELO 1	28.469	126.11	1049.4	C TRANS PEDR	3.438	15.90	231.5
	COR RELL	3.497	15.47	258.9	PEDRAPLEN	0.000	0.09	1.9
	VEGETAL	8.058	35.23	504.0				

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P14 : Enlace de A Casilla. Eje-14 (OC7-24.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
EXC SUELO 1	1049.4
C TRANS PEDR	231.5
COR RELL	258.9
PEDRAPLEN	1.9
VEGETAL	504.0

RESUMEN

		EXC_SUELO_3	EXC_SUELO_1	EXC_ROCA_1	EXC_ROCA_2	EXC_SUELO_2	BALASTO	SUBBALASTO	CAPA FORMA	SUELO_ADECUADO	SUEL-EST3_DESM	SUEL-EST3_TERR	HM-20	RELLEN_MEDIANA	RELLEN_ARCENES	TERRAPLEN	VEGETAL
1	**TRONCO**	274655,40	22561,20	382413,80	531522,90	7258,00				629,20	2312,50	7107,00	124,90	1457,90	3160,10	245111,60	54436,50
1 expl	Emboquilles	88491,80	22238,90	100536,10	74569,40											875,40	6573,00
	Túnel	36576,20		51371,40	134432,70												
	ENLACE DA CASILLA																
9	ENLACE DA CASILLA RAMAL A	6283,40								2106,10	402,00	419,40				3538,90	1661,50
10	ENLACE DA CASILLA RAMAL B		1774,10			2025,80				2603,60	272,10	1120,50				15432,40	2531,10
		6 283,400	*1 774,100*	*0,000*	*0,000*	*2 025,800*	0	0	0	4 709,700	674,100	1 539,900	0,000	0,000	0,000	18 971,300	4 192,600
	REPOSICIÓN DE CAMINOS																
12	REPOSICIÓN DE CAMINO EN P.K. 1+830					133,00										1219,20	
13	REPOSICIÓN DE CAMINO EN P.K. 2+120					315,00				364,80						75,20	
14	REPOSICIÓN DE CAMINO EN P.K. 3+430	7146,90		850,30												358,20	1887,30
15	REPOSICIÓN DEL CAMINO DE SANTIAGO	156,70	577,30													11302,20	1470,20
		7 303,600	*577,300*	*850,300*	*0,000*	*448,000*	0	0	0	364,800	0,000	0,000	0,000	0,000	0,000	12 954,800	3 357,500
	CAMINOS PARALELOS																
16	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280			6230,50		717,40				868,00						4263,40	1874,50
17	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA	806,40								497,40						242,90	812,00
		806,400	*0,000*	*6 230,500*	*0,000*	*717,400*	0	0	0	1 365,400	0,000	0,000	0,000	0,000	0,000	4 506,300	2 686,500
	DESVÍOS PROVISIONALES																
20	DESVÍO FFCC ACTUAL	2807,90		634,50		7619,50	1727,40	1392,00	3181,90							4367,70	2148,70
21	SOLUCION N-525 DESVIO 1					1836,40						1349,80				6040,40	1789,90
22	SOLUCION N-525 DESVIO 2					4758,80						1409,70				548,90	1783,70
23	SOLUCION N-525 SITUACIÓN FINAL					2103,60						1692,10				44,00	1928,50
24	SOLUCION N-525 DESVIO 1 / INTERSECCION					615,00						193,40				3,90	230,90
25	DESVIO PROVISIONAL EN P.K. 3+300					9839,30				951,90						6876,30	2287,80
		2 807,900	*0,000*	*634,500*	*0,000*	*26 772,600*	1727,4	1392	3181,9	951,900	0,000	4 645,000	0,000	0,000	0,000	17 881,200	10 169,500
	TOTAL	*416 924,700*	*47 151,500*	*542 036,600*	*740 525,000*	*37 221,800*	1727,4	1392	3181,9	8 021,000	2 986,600	13 291,900	124,900	1 457,900	3 160,100	300 300,600	81 415,600

LEYENDA
Necesidades de material (Rellenos)
Necesidades de material ferroviario
Disponibilidad de material (Excavación)
Tierra vegetal (Excavación).

RESUMEN DE TIERRAS - CONEXIÓN PROVISIONAL

	EXC ROCA 2 (m3)	EXC SUELO 1 (m3)	C TRANS PEDR (m3)	COR RELL (m3)	PEDRAPLÉN (m3)	VEGETAL (m3)
	320.0020N1	320.0020N1	330.0050	512.0130	330.0020	320.0010
EJE P1	454.1	8907.3	1275.8	1337.6	1475.3	4109.7
EJE P4		1902.1	1096.3	1170.4	114.9	2379.2
EJE P5		68.5	518.5	502	848.5	1106.8
EJE P6		1052.2	445.4	514.4	806	1117.9
EJE P7	62	2922.7	319.5	364.4		758.3
EJE P8		2376.8	397.3	446.1	6.4	913.8
EJE P10			287.9	270.3	2504.8	797.5
EJE P11		0.7	182.7	179.6	1446.3	387.2
EJE P13	0.3	927.8	226.5	252.6	153.1	554.1
EJE P14		1049.4	231.5	258.9	1.9	504
TOTAL (m3)	**516.4**	**19207.5**	**4981.4**	**5296.3**	**7357.2**	**12628.5**

1.1.1.2. DESBROCES

1.1.1.2.1. TRONCO

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** D E S B R O C E S ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1734.276	0.000	0.000	56.826	57.135	0.000	0.000	0.000	0.000
1736.559	0.000	0.000	54.900	55.161	0.000	127.536	0.000	128.185
1738.455	0.000	0.000	54.404	54.668	0.000	231.157	0.000	232.303
1739.257	0.000	0.000	54.201	54.466	0.000	274.708	0.000	276.065
1739.271	0.000	0.000	54.198	54.462	0.000	275.466	0.000	276.828
1739.999	0.000	0.000	54.028	54.294	0.000	314.861	0.000	316.415
1740.000	0.000	0.000	54.028	54.293	0.000	314.915	0.000	316.469
1740.348	0.000	0.000	53.952	54.217	0.000	333.703	0.000	335.350
1742.241	0.000	0.000	53.567	53.824	0.000	435.470	0.000	437.611
1744.131	0.000	0.000	51.696	51.905	0.000	534.943	0.000	537.525
1744.437	0.000	0.000	51.639	51.847	0.000	550.753	0.000	553.399
1746.020	0.000	0.000	51.355	51.559	0.000	632.273	0.000	635.245
1747.908	0.000	0.000	51.006	51.203	0.000	728.901	0.000	732.252
1749.623	0.000	0.000	49.130	49.294	0.000	814.768	0.000	818.429
1749.795	0.000	0.000	49.096	49.261	0.000	823.215	0.000	826.904
1750.000	0.000	0.000	49.056	49.220	0.000	833.276	0.000	836.999
1751.680	0.000	0.000	48.676	48.845	0.000	915.370	0.000	919.374
1753.564	0.000	0.000	48.298	48.469	0.000	1006.720	0.000	1011.043
1754.827	0.000	0.000	48.043	48.218	0.000	1067.560	0.000	1072.101
1755.448	0.000	0.000	47.937	48.112	0.000	1097.361	0.000	1102.012
1757.330	0.000	0.000	47.633	47.811	0.000	1187.293	0.000	1192.275
1757.430	0.000	0.000	47.619	47.797	0.000	1192.055	0.000	1197.055
1759.212	0.000	0.000	46.817	46.998	0.000	1276.198	0.000	1281.518
1760.000	0.000	0.000	45.796	45.909	0.000	1312.688	0.000	1318.123
1760.038	0.000	0.000	45.792	45.905	0.000	1314.428	0.000	1319.868
1760.049	0.000	0.000	45.791	45.904	0.000	1314.932	0.000	1320.373
1761.096	0.000	0.000	45.681	45.793	0.000	1362.817	0.000	1368.376
1762.980	0.000	0.000	45.440	45.557	0.000	1448.653	0.000	1454.428
1764.866	0.000	0.000	45.177	45.305	0.000	1534.105	0.000	1540.110
1764.999	0.000	0.000	45.157	45.285	0.000	1540.112	0.000	1546.134
1765.000	0.000	0.000	45.157	45.285	0.000	1540.157	0.000	1546.179
1765.273	0.000	0.000	45.115	45.247	0.000	1552.479	0.000	1558.537
1766.753	0.000	0.000	44.552	44.703	0.000	1618.833	0.000	1625.100
1768.641	0.000	0.000	43.244	43.430	0.000	1701.712	0.000	1708.298
1770.000	0.000	0.000	42.911	42.962	0.000	1760.254	0.000	1767.001
1770.499	0.000	0.000	42.837	42.889	0.000	1781.648	0.000	1788.421
1770.529	0.000	0.000	42.834	42.886	0.000	1782.933	0.000	1789.707

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** D E S B R O C E S ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1772.419	0.000	0.000	42.433	42.493	0.000	1863.510	0.000	1870.390
1774.310	12.639	12.639	32.629	32.638	11.951	1934.481	11.951	1941.427
1775.725	12.422	12.422	32.693	32.704	29.682	1980.697	29.682	1987.657
1776.202	12.354	12.354	32.724	32.735	35.591	1996.299	35.591	2003.264
1778.094	12.076	12.076	32.729	32.759	58.701	2058.217	58.701	2065.220
1779.987	11.782	11.782	32.818	32.860	81.282	2120.258	81.282	2127.329
1780.000	11.779	11.779	32.820	32.863	81.435	2120.684	81.435	2127.756
1780.951	11.626	11.626	32.903	32.954	92.564	2151.936	92.564	2159.052
1786.177	15.618	15.622	28.658	28.704	163.753	2312.796	163.763	2320.163
1790.000	24.814	24.814	19.393	19.409	241.038	2404.647	241.057	2412.131
1791.403	24.819	24.821	19.342	19.362	275.856	2431.820	275.876	2439.329
1792.330	24.849	24.853	19.344	19.368	298.877	2449.751	298.900	2457.280
1794.948	25.535	25.543	18.913	18.944	364.830	2499.830	364.868	2507.431
1794.999	25.548	25.557	18.901	18.932	366.132	2500.794	366.171	2508.397
1795.000	25.549	25.557	18.900	18.932	366.158	2500.813	366.197	2508.415
1800.000	34.754	34.756	9.476	9.476	516.915	2571.755	516.980	2579.435
1801.357	34.637	34.640	9.461	9.466	563.997	2584.604	564.066	2592.288
1801.367	34.636	34.639	9.461	9.467	564.343	2584.698	564.412	2592.382
1805.000	34.867	34.886	9.033	9.085	690.594	2618.293	690.704	2626.081
1805.000	34.465	34.478	9.033	9.085	690.594	2618.293	690.704	2626.081
1809.478	45.620	45.764	0.000	0.000	869.905	2638.518	870.367	2646.423
1810.000	45.712	45.869	0.000	0.000	893.742	2638.518	894.283	2646.423
1814.938	46.460	46.847	0.000	0.000	1121.313	2638.518	1123.200	2646.423
1818.417	46.900	47.631	0.000	0.000	1283.711	2638.518	1287.545	2646.423
1819.999	46.874	47.475	0.000	0.000	1357.887	2638.518	1362.775	2646.423
1820.000	46.874	47.475	0.000	0.000	1357.933	2638.518	1362.822	2646.423
1820.037	46.879	47.477	0.000	0.000	1359.668	2638.518	1364.579	2646.423
1825.845	47.505	47.877	0.000	0.000	1633.760	2638.518	1641.487	2646.423
1830.000	47.884	48.389	0.000	0.000	1831.931	2638.518	1841.479	2646.423
1830.044	47.893	48.393	0.000	0.000	1834.038	2638.518	1843.608	2646.423
1833.870	48.584	48.856	0.000	0.000	2018.598	2638.518	2029.646	2646.423
1839.851	49.564	49.822	0.000	0.000	2312.108	2638.518	2324.743	2646.423
1840.000	49.585	49.848	0.000	0.000	2319.495	2638.518	2332.169	2646.423
1842.000	49.815	49.990	0.000	0.000	2418.895	2638.518	2432.007	2646.423
1842.000	41.656	41.804	0.000	0.000	2418.895	2638.518	2432.007	2646.423
1843.702	41.597	41.668	0.000	0.000	2489.743	2638.518	2503.041	2646.423
1843.712	39.399	39.470	0.000	0.000	2490.148	2638.518	2503.447	2646.423

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1844.572	39.373	39.430	0.000	0.000	2524.020	2638.518	2537.374	2646.423
1846.572	39.319	39.408	0.000	0.000	2602.712	2638.518	2616.211	2646.423
1847.746	39.293	39.442	0.000	0.000	2648.857	2638.518	2662.496	2646.423
1848.072	39.279	39.450	0.000	0.000	2661.664	2638.518	2675.356	2646.423
1850.000	39.207	39.550	0.000	0.000	2737.325	2638.518	2751.512	2646.423
1850.071	39.205	39.543	0.000	0.000	2740.109	2638.518	2754.320	2646.423
1852.571	39.131	39.343	0.000	0.000	2838.029	2638.518	2852.927	2646.423
1853.584	39.108	39.297	0.000	0.000	2877.657	2638.518	2892.758	2646.423
1854.999	39.052	39.236	0.000	0.000	2932.955	2638.518	2948.321	2646.423
1855.000	39.052	39.236	0.000	0.000	2932.994	2638.518	2948.360	2646.423
1855.072	39.049	39.230	0.000	0.000	2935.806	2638.518	2951.185	2646.423
1858.071	38.953	39.086	0.000	0.000	3052.770	2638.518	3068.619	2646.423
1859.342	38.986	39.152	0.000	0.000	3102.300	2638.518	3118.340	2646.423
1859.997	38.993	39.186	0.000	0.000	3127.838	2638.518	3143.996	2646.423
1860.000	38.993	39.186	0.000	0.000	3127.955	2638.518	3144.113	2646.423
1863.106	38.894	39.057	0.000	0.000	3248.914	2638.518	3265.625	2646.423
1863.146	38.893	39.059	0.000	0.000	3250.469	2638.518	3267.187	2646.423
1864.610	38.834	39.188	0.000	0.000	3307.366	2638.518	3324.464	2646.423
1864.627	38.833	39.185	0.000	0.000	3308.026	2638.518	3325.130	2646.423
1866.898	38.706	39.004	0.000	0.000	3396.072	2638.518	3413.913	2646.423
1870.000	38.558	39.508	0.000	0.000	3515.909	2638.518	3535.685	2646.423
1870.038	38.556	39.498	0.000	0.000	3517.374	2638.518	3537.186	2646.423
1870.043	38.556	39.497	0.000	0.000	3517.567	2638.518	3537.384	2646.423
1871.382	38.475	39.177	0.000	0.000	3569.139	2638.518	3590.056	2646.423
1874.311	38.317	38.787	0.000	0.000	3681.601	2638.518	3704.235	2646.423
1874.332	38.316	38.786	0.000	0.000	3682.406	2638.518	3705.049	2646.423
1879.785	38.013	39.206	0.000	0.000	3890.517	2638.518	3917.693	2646.423
1880.000	37.998	39.251	0.000	0.000	3898.688	2638.518	3926.127	2646.423
1880.031	37.996	39.246	0.000	0.000	3899.866	2638.518	3927.344	2646.423
1883.373	37.803	38.932	0.000	0.000	4026.526	2638.518	4057.980	2646.423
1886.211	37.669	39.068	0.000	0.000	4133.621	2638.518	4168.662	2646.423
1886.928	37.624	39.144	0.000	0.000	4160.614	2638.518	4196.700	2646.423
1889.999	37.463	39.731	0.000	0.000	4275.911	2638.518	4317.812	2646.423
1890.000	37.463	39.731	0.000	0.000	4275.948	2638.518	4317.852	2646.423
1890.036	37.461	39.715	0.000	0.000	4277.297	2638.518	4319.282	2646.423
1890.045	37.461	39.711	0.000	0.000	4277.634	2638.518	4319.640	2646.423
1892.190	37.341	38.980	0.000	0.000	4357.859	2638.518	4404.036	2646.423

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1892.206	37.340	38.976	0.000	0.000	4358.456	2638.518	4404.659	2646.423
1895.650	37.147	38.759	0.000	0.000	4486.722	2638.518	4538.520	2646.423
1895.664	37.146	38.761	0.000	0.000	4487.242	2638.518	4539.062	2646.423
1898.533	36.986	39.470	0.000	0.000	4593.584	2638.518	4651.285	2646.423
1900.000	36.846	40.071	0.000	0.000	4647.740	2638.518	4709.628	2646.423
1900.039	36.842	40.037	0.000	0.000	4649.177	2638.518	4711.190	2646.423
1901.417	36.723	39.980	0.000	0.000	4699.864	2638.518	4766.321	2646.423
1901.439	36.721	39.966	0.000	0.000	4700.672	2638.518	4767.201	2646.423
1901.450	36.721	39.960	0.000	0.000	4701.076	2638.518	4767.640	2646.423
1904.095	36.680	38.875	0.000	0.000	4798.149	2638.518	4871.900	2646.423
1904.138	36.679	38.864	0.000	0.000	4799.726	2638.518	4873.571	2646.423
1906.163	36.650	38.604	0.000	0.000	4873.971	2638.518	4952.007	2646.423
1907.425	36.627	38.696	0.000	0.000	4920.209	2638.518	5000.784	2646.423
1907.466	36.626	38.702	0.000	0.000	4921.710	2638.518	5002.370	2646.423
1909.074	36.603	39.120	0.000	0.000	4980.586	2638.518	5064.939	2646.423
1909.992	36.586	39.493	0.000	0.000	5014.179	2638.518	5101.022	2646.423
1910.000	36.586	39.496	0.000	0.000	5014.472	2638.518	5101.338	2646.423
1910.034	36.585	39.476	0.000	0.000	5015.716	2638.518	5102.680	2646.423
1912.347	36.556	38.739	0.000	0.000	5100.304	2638.518	5193.137	2646.423
1912.391	36.555	38.737	0.000	0.000	5101.912	2638.518	5194.841	2646.423
1912.471	36.554	38.733	0.000	0.000	5104.837	2638.518	5197.940	2646.423
1912.481	38.753	41.105	0.000	0.000	5105.213	2638.518	5198.339	2646.423
1915.000	38.721	42.109	0.000	0.000	5202.792	2638.518	5303.148	2646.423
1915.000	45.821	49.551	0.000	0.000	5202.792	2638.518	5303.148	2646.423
1915.632	46.405	50.303	0.000	0.000	5231.936	2638.518	5334.702	2646.423
1917.238	47.866	52.869	0.000	0.000	5307.635	2638.518	5417.549	2646.423
1920.000	50.225	59.268	0.000	0.000	5443.098	2638.518	5572.410	2646.423
1920.378	50.181	58.876	0.000	0.000	5462.074	2638.518	5594.739	2646.423
1927.786	49.439	57.529	0.000	0.000	5831.066	2638.518	6025.905	2646.423
1929.999	49.250	58.617	0.000	0.000	5940.266	2638.518	6154.422	2646.423
1930.000	49.250	58.618	0.000	0.000	5940.315	2638.518	6154.481	2646.423
1931.609	48.296	57.304	0.000	0.000	6018.791	2638.518	6247.739	2646.423
1935.210	45.734	55.168	0.000	0.000	6188.092	2638.518	6450.245	2646.423
1938.136	45.312	54.552	0.000	0.000	6321.292	2638.518	6610.765	2646.423
1940.000	45.264	54.740	0.000	0.000	6405.709	2638.518	6712.625	2646.423
1940.712	45.245	54.271	0.000	0.000	6437.930	2638.518	6751.433	2646.423
1946.141	44.167	52.874	0.000	0.000	6680.641	2638.518	7042.280	2646.423

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** D E S B R O C E S ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1949.007	42.400	52.831	0.000	0.000	6804.692	2638.518	7193.756	2646.423
1949.999	41.755	52.999	0.000	0.000	6846.432	2638.518	7246.248	2646.423
1950.000	41.755	52.999	0.000	0.000	6846.474	2638.518	7246.301	2646.423
1952.728	41.604	51.812	0.000	0.000	6960.176	2638.518	7389.264	2646.423
1958.000	41.270	52.034	0.000	0.000	7178.631	2638.518	7663.004	2646.423
1958.000	41.270	52.034	0.000	0.000	7178.631	2638.518	7663.004	2646.423
1959.943	50.957	66.318	0.000	0.000	7268.229	2638.518	7777.983	2646.423
1959.953	60.854	76.552	0.000	0.000	7268.788	2638.518	7778.698	2646.423
1960.000	60.863	76.734	0.000	0.000	7271.649	2638.518	7782.300	2646.423
1970.000	64.271	81.270	0.000	0.000	7897.320	2638.518	8572.323	2646.423
1980.000	68.575	90.543	0.000	0.000	8561.549	2638.518	9431.390	2646.423
1990.000	62.982	78.928	0.000	0.000	9219.335	2638.518	10278.745	2646.423
2000.000	65.970	80.009	0.000	0.000	9864.099	2638.518	11073.430	2646.423
2009.999	67.181	81.241	0.000	0.000	10529.787	2638.518	11879.599	2646.423
2010.000	67.181	81.241	0.000	0.000	10529.854	2638.518	11879.680	2646.423
2020.000	61.541	67.023	0.000	0.000	11173.460	2638.518	12621.001	2646.423
2030.000	62.355	64.201	0.000	0.000	11792.940	2638.518	13277.120	2646.423
2031.610	62.277	63.876	0.000	0.000	11893.269	2638.518	13380.222	2646.423
2040.000	60.276	61.507	0.000	0.000	12407.378	2638.518	13906.203	2646.423
2050.000	56.132	57.209	0.000	0.000	12989.419	2638.518	14499.786	2646.423
2060.000	50.096	51.044	0.000	0.000	13520.559	2638.518	15041.052	2646.423
2064.999	46.687	47.518	0.000	0.000	13762.467	2638.518	15287.408	2646.423
2065.000	46.686	47.517	0.000	0.000	13762.514	2638.518	15287.456	2646.423
2070.000	43.105	43.646	0.000	0.000	13986.992	2638.518	15515.365	2646.423
2080.000	41.673	42.281	0.000	0.000	14410.882	2638.518	15945.000	2646.423
2090.000	45.204	45.222	0.000	0.000	14845.266	2638.518	16382.513	2646.423
2099.999	47.903	48.642	0.000	0.000	15310.758	2638.518	16851.787	2646.423
2100.000	47.904	48.643	0.000	0.000	15310.806	2638.518	16851.836	2646.423
2110.000	53.441	53.778	0.000	0.000	15817.528	2638.518	17363.939	2646.423
2120.000	51.922	51.929	0.000	0.000	16344.343	2638.518	17892.475	2646.423
2130.000	60.670	61.560	0.000	0.000	16907.305	2638.518	18459.919	2646.423
2139.999	63.495	64.219	0.000	0.000	17528.071	2638.518	19088.750	2646.423
2140.000	63.496	64.219	0.000	0.000	17528.134	2638.518	19088.814	2646.423
2150.000	66.793	67.496	0.000	0.000	18179.579	2638.518	19747.389	2646.423
2160.000	69.487	70.306	0.000	0.000	18860.981	2638.518	20436.396	2646.423
2170.000	71.889	73.142	0.000	0.000	19567.863	2638.518	21153.636	2646.423
2180.000	71.893	73.324	0.000	0.000	20286.772	2638.518	21885.964	2646.423

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** D E S B R O C E S ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
2190.000	72.534	74.157	0.000	0.000	21008.906	2638.518	22623.367	2646.423
2200.000	72.841	75.265	0.000	0.000	21735.782	2638.518	23370.477	2646.423
2210.000	71.975	74.909	0.000	0.000	22459.864	2638.518	24121.347	2646.423
2220.000	71.090	74.359	0.000	0.000	23175.192	2638.518	24867.686	2646.423
2230.000	69.659	72.984	0.000	0.000	23878.940	2638.518	25604.400	2646.423
2234.999	68.949	72.393	0.000	0.000	24225.393	2638.518	25967.771	2646.423
2235.000	68.949	72.393	0.000	0.000	24225.461	2638.518	25967.843	2646.423
2240.000	67.950	71.492	0.000	0.000	24567.710	2638.518	26327.556	2646.423
2250.000	66.273	70.099	0.000	0.000	25238.825	2638.518	27035.509	2646.423
2260.000	68.062	73.395	0.000	0.000	25910.497	2638.518	27752.978	2646.423
2270.000	65.928	71.271	0.000	0.000	26580.446	2638.518	28476.306	2646.423
2270.764	65.622	70.894	0.000	0.000	26630.698	2638.518	28530.613	2646.423
2280.000	60.374	64.387	0.000	0.000	27212.547	2638.518	29155.343	2646.423
2289.999	54.458	57.694	0.000	0.000	27786.652	2638.518	29765.690	2646.423
2290.000	54.458	57.694	0.000	0.000	27786.706	2638.518	29765.748	2646.423
2300.000	46.421	48.578	0.000	0.000	28291.097	2638.518	30297.108	2646.423
2309.999	21.489	21.905	17.915	18.255	28630.612	2728.083	30649.489	2737.690
2310.000	21.487	21.903	17.917	18.257	28630.634	2728.101	30649.511	2737.709
2320.000	0.000	0.000	40.688	41.043	28738.068	3021.124	30759.025	3034.210
2329.999	0.000	0.000	48.393	48.774	28738.068	3466.484	30759.025	3483.251
2330.000	0.000	0.000	48.394	48.775	28738.068	3466.533	30759.025	3483.300
2332.699	0.000	0.000	50.492	50.977	28738.068	3599.979	30759.025	3617.915
2340.000	0.000	0.000	55.166	55.963	28738.068	3985.682	30759.025	4008.301
2350.000	0.000	0.000	60.389	62.165	28738.068	4563.453	30759.025	4598.944
2353.343	0.000	0.000	59.964	61.955	28738.068	4764.622	30759.025	4806.410
2354.999	0.000	0.000	59.400	61.428	28738.068	4863.456	30759.025	4908.571
2355.000	0.000	0.000	59.399	61.428	28738.068	4863.515	30759.025	4908.633
2360.000	0.000	0.000	56.004	58.022	28738.068	5152.022	30759.025	5207.257
2369.999	0.000	0.000	51.535	53.693	28738.068	5689.661	30759.025	5765.774
2370.000	0.000	0.000	51.535	53.693	28738.068	5689.712	30759.025	5765.828
2373.988	0.000	0.000	50.910	53.654	28738.068	5893.987	30759.025	5979.878
2380.000	0.000	0.000	49.039	51.858	28738.068	6194.435	30759.025	6297.049
2389.999	13.736	14.592	39.764	42.925	28806.741	6638.408	30831.975	6770.917
2390.000	13.736	14.592	39.764	42.925	28806.754	6638.447	30831.990	6770.960
2400.000	12.217	12.876	40.572	42.488	28936.519	7040.129	30969.330	7198.022
2410.000	10.555	10.826	39.537	41.490	29050.381	7440.673	31087.840	7617.908
2420.000	1.340	1.378	41.596	43.137	29109.860	7846.336	31148.856	8041.040

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
2430.000	1.313	1.351	40.727	42.104	29123.126	8257.948	31162.501	8467.246
2440.000	9.039	9.347	38.704	39.929	29174.883	8655.104	31215.990	8877.411
2450.000	11.543	12.048	35.280	36.299	29277.790	9025.028	31322.963	9258.552
2460.000	19.032	20.029	28.699	29.627	29430.661	9344.922	31483.346	9588.183
2464.999	25.036	26.275	22.040	22.769	29540.810	9471.743	31599.084	9719.148
2465.000	25.037	26.276	22.039	22.768	29540.835	9471.765	31599.110	9719.171
2470.000	28.875	30.308	17.350	17.895	29675.615	9570.236	31740.571	9820.830
2480.000	40.556	43.022	6.502	6.696	30022.769	9689.493	32107.221	9943.785
2490.000	48.944	52.088	0.000	0.000	30470.269	9722.001	32582.772	9977.263
2494.999	51.231	54.621	0.000	0.000	30720.657	9722.001	32849.492	9977.263
2495.000	51.231	54.622	0.000	0.000	30720.708	9722.001	32849.547	9977.263
2500.000	52.335	55.950	0.000	0.000	30979.624	9722.001	33125.977	9977.263
2510.000	48.585	51.163	0.000	0.000	31484.226	9722.001	33661.541	9977.263
2514.999	45.594	47.542	0.000	0.000	31719.628	9722.001	33908.252	9977.263
2515.000	45.594	47.541	0.000	0.000	31719.674	9722.001	33908.300	9977.263
2520.000	42.201	43.890	0.000	0.000	31939.161	9722.001	34136.877	9977.263
2529.999	35.912	37.297	8.379	8.843	32329.688	9763.891	34542.772	10021.473
2530.000	35.911	37.296	8.381	8.845	32329.724	9763.899	34542.810	10021.482
2539.999	26.765	27.757	22.755	24.264	32643.074	9919.563	34868.040	10187.011
2540.000	26.764	27.756	22.756	24.265	32643.101	9919.586	34868.068	10187.036
2550.000	16.819	17.393	32.811	34.446	32861.016	10197.419	35093.812	10480.590
2560.000	0.515	0.534	45.067	46.784	32947.684	10586.809	35183.448	10886.738
2569.160	0.000	0.000	51.566	53.170	32950.042	11029.392	35185.894	11344.527
2570.000	0.000	0.000	52.151	53.746	32950.042	11072.953	35185.894	11389.432
2580.000	0.000	0.000	59.079	60.764	32950.042	11629.103	35185.894	11961.985
2589.999	0.000	0.000	65.873	67.568	32950.042	12253.797	35185.894	12603.581
2590.000	0.000	0.000	65.873	67.568	32950.042	12253.863	35185.894	12603.648
2592.303	0.000	0.000	65.103	67.030	32950.042	12404.681	35185.894	12758.638
2600.000	0.000	0.000	68.107	69.385	32950.042	12917.337	35185.894	13283.630
2600.000	0.000	0.000	68.107	69.385	32950.042	12917.337	35185.894	13283.630
2610.000	0.000	0.000	68.097	69.452	32950.042	13598.356	35185.894	13977.816
2614.999	0.000	0.000	67.431	68.604	32950.042	13937.110	35185.894	14322.887
2615.000	0.000	0.000	67.431	68.603	32950.042	13937.177	35185.894	14322.955
2615.446	0.000	0.000	67.353	68.523	32950.042	13967.234	35185.894	14353.534
2620.000	0.000	0.000	66.335	67.488	32950.042	14271.641	35185.894	14663.230
2630.000	0.000	0.000	61.072	62.526	32950.042	14908.677	35185.894	15313.300
2640.000	0.000	0.000	54.979	56.992	32950.042	15488.928	35185.894	15910.889

PROYECTO : VARIANTE DE OURENSE
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*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
2650.000	0.000	0.000	51.613	53.661	32950.042	16021.886	35185.894	16464.151
2660.000	1.236	1.267	46.382	48.341	32956.224	16511.859	35192.229	16974.162
2670.000	11.508	11.759	39.856	41.451	33019.943	16943.048	35257.360	17423.124
2680.000	16.536	17.205	33.764	35.169	33160.164	17311.146	35402.182	17806.223
2684.874	20.060	20.765	30.702	32.134	33249.351	17468.249	35494.716	17970.240
2689.999	22.498	23.369	28.644	29.924	33358.406	17620.324	35607.809	18129.265
2690.000	22.498	23.369	28.644	29.924	33358.428	17620.353	35607.833	18129.295
2700.000	32.366	33.741	16.396	17.114	33632.747	17845.552	35893.382	18364.488
2710.000	53.502	55.748	1.482	1.525	34062.087	17934.942	36340.827	18457.682
2714.999	59.756	62.230	0.000	0.000	34345.176	17938.647	36635.714	18461.493
2715.000	59.757	62.231	0.000	0.000	34345.236	17938.647	36635.776	18461.493
2720.000	62.789	65.282	0.000	0.000	34651.601	17938.647	36954.558	18461.493
2730.000	68.269	70.628	0.000	0.000	35306.890	17938.647	37634.104	18461.493
2740.000	72.599	75.037	0.000	0.000	36011.229	17938.647	38362.428	18461.493
2750.000	76.059	78.705	0.000	0.000	36754.521	17938.647	39131.140	18461.493
2760.000	77.884	80.589	0.000	0.000	37524.237	17938.647	39927.609	18461.493
2770.000	79.672	82.388	0.000	0.000	38312.021	17938.647	40742.491	18461.493
2780.000	82.570	85.273	0.000	0.000	39123.231	17938.647	41580.793	18461.493
2790.000	83.764	87.686	0.000	0.000	39954.896	17938.647	42445.585	18461.493
2800.000	84.397	88.490	0.000	0.000	40795.698	17938.647	43326.464	18461.493
2810.000	85.453	89.739	0.000	0.000	41644.950	17938.647	44217.613	18461.493
2820.000	85.398	90.544	0.000	0.000	42499.209	17938.647	45119.030	18461.493
2830.000	85.022	91.102	0.000	0.000	43351.313	17938.647	46027.259	18461.493
2840.000	83.810	90.651	0.000	0.000	44195.476	17938.647	46936.023	18461.493
2850.000	83.777	91.342	0.000	0.000	45033.410	17938.647	47845.989	18461.493
2860.000	84.139	92.352	0.000	0.000	45872.990	17938.647	48764.456	18461.493
2870.000	85.066	93.840	0.000	0.000	46719.019	17938.647	49695.416	18461.493
2880.000	87.503	97.025	0.000	0.000	47581.869	17938.647	50649.740	18461.493
2890.000	89.531	98.976	0.000	0.000	48467.042	17938.647	51629.745	18461.493
2900.000	91.560	100.725	0.000	0.000	49372.497	17938.647	52628.253	18461.493
2900.000	91.560	100.725	0.000	0.000	49372.497	17938.647	52628.253	18461.493
2910.000	93.373	102.137	0.000	0.000	50297.161	17938.647	53642.564	18461.493
2920.000	95.867	104.043	0.000	0.000	51243.361	17938.647	54673.463	18461.493
2930.000	97.950	105.774	0.000	0.000	52212.443	17938.647	55722.551	18461.493
2940.000	98.893	106.586	0.000	0.000	53196.654	17938.647	56784.351	18461.493
2950.000	99.393	106.841	0.000	0.000	54188.082	17938.647	57851.485	18461.493
2960.000	99.256	106.447	0.000	0.000	55181.327	17938.647	58917.928	18461.493

PROYECTO : VARIANTE DE OURENSE
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*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
2963.392	99.162	106.216	0.000	0.000	55517.845	17938.647	59278.605	18461.493
2970.000	98.937	105.803	0.000	0.000	56172.367	17938.647	59979.115	18461.493
2980.000	98.295	104.873	0.000	0.000	57158.530	17938.647	61032.495	18461.493
2990.000	98.118	104.557	0.000	0.000	58140.599	17938.647	62079.644	18461.493
3000.000	99.262	106.010	0.000	0.000	59127.501	17938.647	63132.479	18461.493
3004.571	99.220	106.337	0.000	0.000	59581.133	17938.647	63617.799	18461.493
3010.000	98.487	104.875	0.000	0.000	60117.808	17938.647	64191.134	18461.493
3020.000	96.692	101.643	0.000	0.000	61093.704	17938.647	65223.726	18461.493
3030.000	94.610	99.089	0.000	0.000	62050.213	17938.647	66227.390	18461.493
3032.821	94.136	98.706	0.000	0.000	62316.439	17938.647	66506.380	18461.493
3040.000	92.419	97.436	0.000	0.000	62986.079	17938.647	67210.431	18461.493
3050.000	90.178	95.185	0.000	0.000	63899.065	17938.647	68173.537	18461.493
3055.964	88.023	93.117	0.000	0.000	64430.461	17938.647	68735.056	18461.493
3060.000	86.567	91.765	0.000	0.000	64782.784	17938.647	69108.148	18461.493
3070.000	83.394	87.376	0.000	0.000	65632.592	17938.647	70003.850	18461.493
3079.107	80.772	84.460	0.000	0.000	66380.125	17938.647	70786.307	18461.493
3080.000	80.458	84.119	0.000	0.000	66452.114	17938.647	70861.577	18461.493
3090.000	77.930	80.932	0.000	0.000	67244.050	17938.647	71686.832	18461.493
3099.999	73.801	77.853	0.000	0.000	68002.629	17938.647	72480.678	18461.493
3100.000	73.801	77.854	0.000	0.000	68002.703	17938.647	72480.756	18461.493
3110.000	68.191	70.915	0.000	0.000	68712.662	17938.647	73224.600	18461.493
3114.999	65.799	68.369	0.000	0.000	69047.569	17938.647	73572.738	18461.493
3115.000	65.798	68.369	0.000	0.000	69047.635	17938.647	73572.807	18461.493
3120.000	55.021	57.784	0.000	0.000	69349.683	17938.647	73888.188	18461.493
3120.000	55.021	57.784	0.000	0.000	69349.683	17938.647	73888.188	18461.493
3130.000	51.704	53.967	0.000	0.000	69883.308	17938.647	74446.942	18461.493
3140.000	51.393	54.141	0.000	0.000	70398.793	17938.647	74987.480	18461.493
3150.000	51.140	54.152	0.000	0.000	70911.457	17938.647	75528.944	18461.493
3159.999	44.285	46.107	0.000	0.000	71388.534	17938.647	76030.190	18461.493
3160.000	44.284	46.106	0.000	0.000	71388.578	17938.647	76030.236	18461.493
3170.000	34.951	35.788	9.736	10.090	71784.751	17987.326	76439.709	18511.944
3171.571	32.093	32.829	13.128	13.567	71837.413	18005.286	76493.608	18530.527
3174.999	25.880	26.486	20.180	20.744	71936.779	18062.377	76595.275	18589.336
3175.000	25.879	26.485	20.182	20.746	71936.805	18062.397	76595.301	18589.356
3180.000	18.594	19.339	31.938	33.011	72047.987	18192.697	76709.861	18723.750
3180.000	18.594	19.339	31.938	33.011	72047.987	18192.697	76709.861	18723.750
3190.000	21.547	22.503	30.786	32.002	72248.693	18506.314	76919.073	19048.817

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3199.999	32.158	33.497	16.985	17.598	72517.193	18745.143	77199.049	19296.793
3200.000	32.159	33.498	16.983	17.596	72517.225	18745.160	77199.082	19296.811
3210.000	51.752	54.431	0.000	0.000	72936.783	18830.076	77638.728	19384.791
3219.999	58.959	61.714	0.000	0.000	73490.285	18830.076	78219.394	19384.791
3220.000	58.959	61.714	0.000	0.000	73490.344	18830.076	78219.455	19384.791
3230.000	61.983	64.510	0.000	0.000	74095.058	18830.076	78850.576	19384.791
3240.000	75.298	78.700	0.000	0.000	74781.463	18830.076	79566.624	19384.791
3250.000	77.292	80.741	0.000	0.000	75544.413	18830.076	80363.826	19384.791
3259.999	79.519	82.792	0.000	0.000	76328.389	18830.076	81181.407	19384.791
3260.000	79.519	82.792	0.000	0.000	76328.469	18830.076	81181.490	19384.791
3270.000	83.271	86.629	0.000	0.000	77142.419	18830.076	82028.592	19384.791
3280.000	92.496	96.316	0.000	0.000	78021.259	18830.076	82943.316	19384.791
3290.000	98.047	102.315	0.000	0.000	78973.977	18830.076	83936.473	19384.791
3300.000	108.861	114.799	0.000	0.000	80008.519	18830.076	85022.045	19384.791
3300.000	108.861	114.799	0.000	0.000	80008.519	18830.076	85022.045	19384.791
3310.000	108.314	113.283	0.000	0.000	81094.398	18830.076	86162.454	19384.791
3320.000	114.549	119.647	0.000	0.000	82208.714	18830.076	87327.104	19384.791
3325.858	117.726	123.087	0.000	0.000	82889.046	18830.076	88038.073	19384.791
3325.868	117.731	123.094	0.000	0.000	82890.223	18830.076	88039.304	19384.791
3330.000	114.333	120.159	0.000	0.000	83369.667	18830.076	88541.865	19384.791
3336.662	108.522	113.740	0.000	0.000	84111.995	18830.076	89320.983	19384.791
3340.000	111.576	117.272	0.000	0.000	84479.337	18830.076	89706.542	19384.791
3343.235	114.820	120.516	0.000	0.000	84845.532	18830.076	90091.164	19384.791
3350.000	120.384	126.843	0.000	0.000	85641.110	18830.076	90927.855	19384.791
3350.005	120.178	126.621	0.000	0.000	85641.711	18830.076	90928.488	19384.791
3360.000	127.703	136.000	0.000	0.000	86880.499	18830.076	92240.937	19384.791
3367.161	132.056	142.305	0.000	0.000	87810.565	18830.076	93237.410	19384.791
3367.171	132.057	142.314	0.000	0.000	87811.886	18830.076	93238.833	19384.791
3367.280	132.077	142.403	0.000	0.000	87826.281	18830.076	93254.350	19384.791
3370.000	132.479	142.773	0.000	0.000	88186.078	18830.076	93642.189	19384.791
3380.000	134.008	145.375	0.000	0.000	89518.513	18830.076	95082.928	19384.791
3390.000	134.725	142.206	0.000	0.000	90862.178	18830.076	96520.830	19384.791
3391.326	134.716	141.879	0.000	0.000	91040.818	18830.076	96709.178	19384.791
3399.999	133.144	140.530	0.000	0.000	92202.393	18830.076	97933.846	19384.791
3400.000	133.144	140.530	0.000	0.000	92202.526	18830.076	97933.987	19384.791
3410.000	131.478	137.884	0.000	0.000	93525.636	18830.076	99326.056	19384.791
3420.000	129.469	135.080	0.000	0.000	94830.371	18830.076	100690.873	19384.791

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3430.000	126.528	132.374	0.000	0.000	96110.356	18830.076	102028.139	19384.791
3440.000	119.576	124.337	0.000	0.000	97340.876	18830.076	103311.694	19384.791
3450.000	120.408	125.303	0.000	0.000	98540.795	18830.076	104559.897	19384.791
3460.000	120.130	125.058	0.000	0.000	99743.489	18830.076	105811.703	19384.791
3463.462	120.030	124.815	0.000	0.000	100159.206	18830.076	106244.233	19384.791
3465.022	120.005	124.766	0.000	0.000	100346.433	18830.076	106438.905	19384.791
3470.000	119.718	125.045	0.000	0.000	100943.103	18830.076	107060.685	19384.791
3471.501	119.471	124.748	0.000	0.000	101122.614	18830.076	107248.154	19384.791
3477.982	118.872	124.265	0.000	0.000	101894.965	18830.076	108055.082	19384.791
3480.000	115.970	121.153	0.000	0.000	102131.921	18830.076	108302.709	19384.791
3484.468	110.113	114.171	0.000	0.000	102636.990	18830.076	108828.423	19384.791
3490.000	104.549	108.626	0.000	0.000	103230.743	18830.076	109444.677	19384.791
3490.955	101.779	105.831	0.000	0.000	103329.265	18830.076	109547.080	19384.791
3497.446	91.588	95.378	0.000	0.000	103956.837	18830.076	110200.102	19384.791
3500.000	88.631	91.967	0.000	0.000	104186.976	18830.076	110439.342	19384.791
3503.939	85.391	88.390	0.000	0.000	104529.711	18830.076	110794.556	19384.791
3510.000	79.981	82.815	0.000	0.000	105030.872	18830.076	111313.394	19384.791
3510.436	79.749	82.484	0.000	0.000	105065.693	18830.076	111349.429	19384.791
3516.935	71.248	74.115	0.000	0.000	105556.360	18830.076	111858.297	19384.791
3520.000	69.674	72.857	0.000	0.000	105772.323	18830.076	112083.531	19384.791
3523.437	68.360	71.007	0.000	0.000	106009.534	18830.076	112330.761	19384.791
3529.943	64.568	66.605	0.000	0.000	106441.949	18830.076	112778.414	19384.791
3530.000	64.564	66.605	0.000	0.000	106445.629	18830.076	112782.210	19384.791
3536.452	62.708	64.942	0.000	0.000	106856.206	18830.076	113206.582	19384.791
3539.999	62.448	64.350	0.000	0.000	107078.170	18830.076	113435.881	19384.791
3540.000	62.448	64.350	0.000	0.000	107078.233	18830.076	113435.945	19384.791
3542.964	62.177	64.192	0.000	0.000	107262.928	18830.076	113626.445	19384.791
3549.480	47.996	49.754	7.397	7.452	107621.872	18854.175	113997.684	19409.069
3550.000	46.482	48.164	8.914	8.980	107646.436	18858.416	114023.142	19413.341
3554.999	36.264	37.235	22.214	22.621	107853.259	18936.221	114236.597	19492.327
3555.000	36.262	37.232	22.216	22.622	107853.295	18936.243	114236.634	19492.349
3560.000	32.264	33.159	29.720	30.423	108024.609	19066.082	114412.613	19624.961
3562.833	30.116	30.740	34.445	35.275	108112.970	19156.973	114503.125	19718.022
3562.843	30.109	30.732	34.461	35.291	108113.271	19157.317	114503.433	19718.375
3564.868	28.559	29.076	36.773	37.690	108172.672	19229.442	114563.988	19792.268
3566.405	27.262	27.732	37.651	38.612	108215.571	19286.637	114607.644	19850.906
3567.025	26.709	27.168	38.016	38.997	108232.302	19310.094	114624.663	19874.965

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3567.030	26.704	27.162	38.019	39.001	108232.436	19310.284	114624.799	19875.160
3567.356	26.350	26.779	38.234	39.225	108241.083	19322.713	114633.591	19887.910
3569.414	13.022	13.155	45.750	46.880	108281.597	19409.132	114674.683	19976.512
3569.419	12.981	13.113	45.793	46.923	108281.662	19409.361	114674.749	19976.746
3570.000	6.685	6.735	52.387	53.561	108287.375	19437.883	114680.515	20005.937
3570.004	6.636	6.686	52.438	53.612	108287.401	19438.092	114680.542	20006.151
3571.799	0.361	0.384	59.233	60.619	108293.681	19538.317	114686.887	20108.673
3571.804	0.360	0.383	59.235	60.620	108293.683	19538.613	114686.889	20108.977
3573.439	0.000	0.000	60.032	61.434	108293.977	19636.114	114687.202	20208.756
3574.179	0.000	0.000	60.252	61.805	108293.977	19680.618	114687.202	20254.354
3574.184	0.000	0.000	60.254	61.805	108293.977	19680.920	114687.202	20254.663
3575.255	0.000	0.000	60.678	62.022	108293.977	19745.679	114687.202	20320.973
3576.552	0.000	0.000	61.173	62.584	108293.977	19824.699	114687.202	20401.779
3576.557	0.000	0.000	61.175	62.586	108293.977	19825.005	114687.202	20402.092
3576.919	0.000	0.000	61.375	62.739	108293.977	19847.187	114687.202	20424.776
3578.582	0.000	0.000	62.260	63.634	108293.977	19949.990	114687.202	20529.855
3578.916	0.000	0.000	62.431	63.854	108293.977	19970.814	114687.202	20551.146
3578.920	0.000	0.000	62.433	63.854	108293.977	19971.064	114687.202	20551.401
3580.000	0.000	0.000	62.866	64.291	108293.977	20038.725	114687.202	20620.600
3580.005	0.000	0.000	62.868	64.292	108293.977	20039.039	114687.202	20620.921
3580.240	0.000	0.000	62.956	64.337	108293.977	20053.823	114687.202	20636.035
3581.270	0.000	0.000	63.329	64.705	108293.977	20118.860	114687.202	20702.492
3581.275	0.000	0.000	63.332	64.706	108293.977	20119.177	114687.202	20702.815
3581.888	0.000	0.000	63.613	64.907	108293.977	20158.086	114687.202	20742.542
3583.529	0.000	0.000	64.411	65.742	108293.977	20263.130	114687.202	20849.739
3583.611	0.000	0.000	64.453	65.795	108293.977	20268.413	114687.202	20855.132
3583.616	0.000	0.000	64.455	65.796	108293.977	20268.736	114687.202	20855.461
3585.160	0.000	0.000	65.061	66.337	108293.977	20368.721	114687.202	20957.467
3585.938	0.000	0.000	65.385	66.788	108293.977	20419.465	114687.202	21009.252
3585.942	0.000	0.000	65.387	66.789	108293.977	20419.727	114687.202	21009.520
3586.781	0.000	0.000	65.716	67.045	108293.977	20474.724	114687.202	21065.663
3588.250	0.000	0.000	66.305	67.760	108293.977	20571.694	114687.202	21164.677
3588.255	0.000	0.000	66.307	67.762	108293.977	20572.025	114687.202	21165.016
3588.388	0.000	0.000	66.372	67.812	108293.977	20580.849	114687.202	21174.031
3590.000	0.000	0.000	67.175	68.762	108293.977	20688.488	114687.202	21284.110
3590.004	0.000	0.000	67.177	68.763	108293.977	20688.756	114687.202	21284.385
3590.129	0.000	0.000	67.235	68.805	108293.977	20697.157	114687.202	21292.983

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3590.544	0.000	0.000	67.391	69.019	108293.977	20725.092	114687.202	21321.582
3590.548	0.000	0.000	67.393	69.021	108293.977	20725.362	114687.202	21321.858
3592.324	0.000	0.000	68.647	70.273	108293.977	20846.165	114687.202	21445.550
3592.819	0.000	0.000	68.918	70.633	108293.977	20880.213	114687.202	21480.424
3592.823	0.000	0.000	68.920	70.634	108293.977	20880.488	114687.202	21480.707
3595.000	0.000	0.000	70.449	72.194	108293.977	21032.192	114687.202	21636.175
3595.189	0.000	0.000	70.668	72.264	108293.977	21045.527	114687.202	21649.826
3595.428	0.000	0.000	72.831	74.716	108293.977	21062.675	114687.202	21667.390
3595.433	0.000	0.000	72.831	74.711	108293.977	21063.039	114687.202	21667.764
3597.641	0.000	0.000	73.320	74.596	108293.977	21224.390	114687.202	21832.599
3597.646	0.000	0.000	73.321	74.595	108293.977	21224.757	114687.202	21832.972
3598.091	0.000	0.000	73.385	74.553	108293.977	21257.399	114687.202	21866.158
3599.882	0.000	0.000	73.485	75.210	108293.977	21388.921	114687.202	22000.270
3599.887	0.000	0.000	73.486	75.208	108293.977	21389.289	114687.202	22000.646
3600.000	0.000	0.000	73.515	75.313	108293.977	21397.594	114687.202	22009.151
3600.000	0.000	0.000	73.515	75.313	108293.977	21397.594	114687.202	22009.151
3600.005	0.000	0.000	73.517	75.311	108293.977	21397.962	114687.202	22009.527
3601.052	0.000	0.000	73.928	75.317	108293.977	21475.149	114687.202	22088.381
3602.148	0.000	0.000	74.424	76.093	108293.977	21556.446	114687.202	22171.354
3602.152	0.000	0.000	74.428	76.096	108293.977	21556.744	114687.202	22171.658
3603.910	0.000	0.000	76.316	77.856	108293.977	21689.248	114687.202	22306.982
3604.433	0.000	0.000	76.878	78.616	108293.977	21729.308	114687.202	22347.899
3604.438	0.000	0.000	76.879	78.615	108293.977	21729.693	114687.202	22348.292
3606.694	0.000	0.000	77.238	78.795	108293.977	21903.536	114687.202	22525.851
3606.699	0.000	0.000	77.243	78.797	108293.977	21903.922	114687.202	22526.245
3606.805	0.000	0.000	77.347	78.848	108293.977	21912.116	114687.202	22534.600
3609.010	0.000	0.000	79.543	80.959	108293.977	22085.087	114687.202	22710.787
3609.015	0.000	0.000	79.543	80.958	108293.977	22085.485	114687.202	22711.192
3609.795	0.000	0.000	79.619	81.450	108293.977	22147.558	114687.202	22774.531
3610.000	0.000	0.000	79.637	81.741	108293.977	22163.881	114687.202	22791.258
3610.005	0.000	0.000	79.639	81.736	108293.977	22164.280	114687.202	22791.667
3611.338	0.000	0.000	79.968	81.526	108293.977	22270.658	114687.202	22900.481
3611.342	0.000	0.000	79.971	81.526	108293.977	22270.978	114687.202	22900.807
3612.795	0.000	0.000	81.093	82.025	108293.977	22387.991	114687.202	23019.627
3613.675	0.000	0.000	81.896	82.859	108293.977	22459.706	114687.202	23092.176
3613.680	0.000	0.000	81.901	82.862	108293.977	22460.116	114687.202	23092.590
3615.662	0.000	0.000	83.623	84.535	108293.977	22624.150	114687.202	23258.481

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3616.015	0.000	0.000	83.930	84.923	108293.977	22653.723	114687.202	23288.391
3616.020	0.000	0.000	83.933	84.924	108293.977	22654.143	114687.202	23288.815
3619.444	0.000	0.000	85.654	86.241	108293.977	22944.475	114687.202	23581.850
3620.000	0.000	0.000	85.932	86.587	108293.977	22992.176	114687.202	23629.896
3620.005	0.000	0.000	85.935	86.589	108293.977	22992.605	114687.202	23630.329
3626.016	0.000	0.000	88.874	89.282	108293.977	23517.995	114687.202	24158.909
3630.000	0.000	0.000	90.712	91.202	108293.977	23875.732	114687.202	24518.432
3630.005	0.000	0.000	90.714	91.203	108293.977	23876.186	114687.202	24518.888
3632.588	0.000	0.000	91.649	92.012	108293.977	24111.708	114687.202	24755.512
3639.160	0.000	0.000	94.041	94.297	108293.977	24721.887	114687.202	25367.726
3640.000	0.000	0.000	94.348	94.614	108293.977	24801.011	114687.202	25447.069
3640.005	0.000	0.000	94.349	94.615	108293.977	24801.482	114687.202	25447.542
3645.732	0.000	0.000	95.639	95.879	108293.977	25345.513	114687.202	25993.024
3649.999	0.000	0.000	96.515	96.858	108293.977	25755.473	114687.202	26404.229
3650.000	0.000	0.000	96.515	96.858	108293.977	25755.570	114687.202	26404.326
3650.005	0.000	0.000	96.516	96.859	108293.977	25756.052	114687.202	26404.810
3652.307	0.000	0.000	96.850	97.171	108293.977	25978.616	114687.202	26628.138
3658.881	0.000	0.000	97.876	98.203	108293.977	26618.679	114687.202	27270.334
3660.000	0.000	0.000	98.062	98.400	108293.977	26728.306	114687.202	27380.334
3660.004	0.000	0.000	98.060	98.399	108293.977	26728.699	114687.202	27380.727
3665.458	0.000	0.000	96.047	96.299	108293.977	27258.028	114687.202	27911.666
3670.000	0.000	0.000	94.457	94.720	108293.977	27690.662	114687.202	28345.469
3670.004	0.000	0.000	94.455	94.718	108293.977	27691.039	114687.202	28345.848
3672.033	0.000	0.000	93.781	94.005	108293.977	27882.005	114687.202	28537.308
3674.999	0.000	0.000	92.891	93.109	108293.977	28158.840	114687.202	28814.797
3675.000	0.000	0.000	92.891	93.108	108293.977	28158.933	114687.202	28814.891
3678.611	0.000	0.000	91.440	91.621	108293.977	28491.743	114687.202	29148.420
3680.000	0.000	0.000	90.837	91.023	108293.977	28618.335	114687.202	29275.267
3680.005	0.000	0.000	90.833	91.019	108293.977	28618.789	114687.202	29275.722
3685.192	0.000	0.000	86.644	86.928	108293.977	29079.075	114687.202	29737.227
3689.883	0.000	0.000	82.824	83.300	108293.977	29476.561	114687.202	30136.499
3689.892	0.000	0.000	82.816	83.294	108293.977	29477.307	114687.202	30137.249
3690.000	0.000	0.000	82.728	83.211	108293.977	29486.246	114687.202	30146.240
3691.000	0.000	0.000	82.121	82.529	108293.977	29568.671	114687.202	30229.110
3691.085	0.000	0.000	82.045	82.454	108293.977	29575.648	114687.202	30236.122
3691.096	0.000	0.000	77.150	77.537	108293.977	29576.523	114687.202	30237.002
3691.100	0.000	0.000	77.147	77.534	108293.977	29576.832	114687.202	30237.312

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3691.105	0.000	0.000	77.143	77.530	108293.977	29577.218	114687.202	30237.700
3698.442	0.000	0.000	71.919	72.176	108293.977	30124.053	114687.202	30786.897
3700.000	0.000	0.000	70.915	71.163	108293.977	30235.321	114687.202	30898.558
3704.999	34.193	34.226	35.822	36.007	108379.443	30502.109	114772.750	31166.431
3705.000	34.195	34.228	35.821	36.006	108379.478	30502.145	114772.785	31166.467
3706.445	56.232	56.344	14.419	14.549	108444.811	30538.443	114838.223	31202.992
3706.455	56.441	56.554	16.917	17.062	108445.374	30538.600	114838.788	31203.150
3710.000	74.245	74.626	0.000	0.000	108677.014	30568.586	115071.305	31233.392
3720.000	81.375	81.776	0.000	0.000	109455.114	30568.586	115853.318	31233.392
3726.000	85.430	85.810	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3726.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3730.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3740.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3740.100	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3750.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3760.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3770.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3780.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3790.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3800.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3810.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3820.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3830.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3840.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3850.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3860.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3870.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3880.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3890.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3900.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3910.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3920.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3930.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3940.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3941.239	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3950.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3960.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

*** DESBROCES ***

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
3970.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3980.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
3990.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4000.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4010.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4020.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4030.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4037.421	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4040.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4050.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4060.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4070.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4080.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4090.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4100.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4110.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4120.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4130.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4133.603	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4140.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4150.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4160.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4170.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4180.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4190.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4200.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4210.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4220.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4230.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4240.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4250.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4260.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4270.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4280.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4290.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4300.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4310.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
4320.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4330.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4340.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4350.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4360.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4370.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4380.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4390.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4400.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4410.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4420.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4430.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4440.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4450.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4460.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4470.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4480.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4490.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4500.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4510.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4520.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4530.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4540.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4550.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4560.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4561.974	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4570.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4580.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4585.000	0.000	0.000	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4585.000	63.531	64.177	0.000	0.000	109955.531	30568.586	116356.076	31233.392
4587.900	62.786	63.797	0.000	0.000	110138.691	30568.586	116541.639	31233.392
4587.990	61.813	62.825	0.000	0.000	110144.298	30568.586	116547.337	31233.392
4588.000	81.429	82.641	0.000	0.000	110145.014	30568.586	116548.064	31233.392
4589.999	80.972	82.676	0.000	0.000	110307.334	30568.586	116713.299	31233.392
4590.000	80.972	82.676	0.000	0.000	110307.415	30568.586	116713.381	31233.392
4600.000	79.031	80.761	0.000	0.000	111107.431	30568.586	117530.563	31233.392
4609.999	75.701	76.100	0.000	0.000	111881.012	30568.586	118314.787	31233.392

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
4610.000	75.701	76.099	0.000	0.000	111881.087	30568.586	118314.863	31233.392
4620.000	71.484	71.946	0.000	0.000	112617.009	30568.586	119055.088	31233.392
4625.000	69.543	69.892	0.000	0.000	112969.577	30568.586	119409.680	31233.392
4630.000	67.461	67.749	0.000	0.000	113312.087	30568.586	119753.783	31233.392
4634.110	62.780	63.040	0.000	0.000	113579.733	30568.586	120022.555	31233.392
4639.999	51.542	51.823	11.328	11.370	113916.352	30601.940	120360.770	31266.870
4640.000	51.540	51.822	11.329	11.371	113916.403	30601.951	120360.822	31266.881
4640.500	50.589	50.872	12.306	12.348	113941.935	30607.860	120386.495	31272.811
4641.510	34.753	34.823	14.699	14.739	113985.033	30621.498	120429.771	31286.490
4650.000	12.740	12.761	36.340	36.412	114186.640	30838.159	120631.764	31503.627
4651.780	8.697	8.710	40.725	40.817	114205.719	30906.747	120650.874	31572.361
4653.704	4.506	4.512	43.653	43.746	114218.420	30987.920	120663.594	31653.710
4655.622	1.768	1.771	47.119	47.203	114224.436	31074.970	120669.619	31740.931
4657.536	0.000	0.000	49.484	49.555	114226.128	31167.419	120671.314	31833.529
4658.155	0.000	0.000	49.646	49.714	114226.128	31198.100	120671.314	31864.252
4658.156	0.000	0.000	49.646	49.714	114226.128	31198.149	120671.314	31864.302
4659.443	0.000	0.000	49.922	49.988	114226.128	31262.221	120671.314	31928.460
4660.000	0.000	0.000	50.307	50.381	114226.128	31290.135	120671.314	31956.413
4661.350	0.000	0.000	50.732	50.810	114226.128	31358.336	120671.314	32024.717
4663.252	0.000	0.000	51.370	51.452	114226.128	31455.435	120671.314	32121.969
4665.152	0.000	0.000	52.007	52.096	114226.128	31553.643	120671.314	32220.339
4667.049	0.000	0.000	52.505	52.598	114226.128	31652.772	120671.314	32319.642
4668.942	0.000	0.000	52.740	52.825	114226.128	31752.387	120671.314	32419.425
4670.000	0.000	0.000	53.054	53.130	114226.128	31808.352	120671.314	32475.475
4670.833	0.000	0.000	53.307	53.375	114226.128	31852.652	120671.314	32519.835
4672.720	0.000	0.000	53.846	53.899	114226.128	31953.751	120671.314	32621.047
4674.604	0.000	0.000	54.075	54.125	114226.128	32055.412	120671.314	32722.805
4676.484	0.000	0.000	54.996	55.028	114226.128	32157.940	120671.314	32825.409
4678.360	0.000	0.000	55.952	55.982	114226.128	32262.009	120671.314	32929.537
4680.000	0.000	0.000	57.371	57.411	114226.128	32354.935	120671.314	33022.520
4680.232	0.000	0.000	57.457	57.497	114226.128	32368.255	120671.314	33035.849
4682.099	0.000	0.000	57.978	58.019	114226.128	32476.013	120671.314	33143.683
4682.201	0.000	0.000	58.006	58.047	114226.128	32481.928	120671.314	33149.603
4683.632	0.000	0.000	58.359	58.398	114226.128	32565.187	120671.314	33232.919
4683.963	0.000	0.000	58.424	58.462	114226.128	32584.514	120671.314	33252.260
4685.822	0.000	0.000	58.806	58.840	114226.128	32693.479	120671.314	33361.293
4687.668	0.000	0.000	59.580	59.617	114226.128	32802.750	120671.314	33470.628

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
4689.999	0.000	0.000	61.699	61.763	114226.128	32944.100	120671.314	33612.097
4690.000	0.000	0.000	61.699	61.764	114226.128	32944.162	120671.314	33612.158
4690.083	0.000	0.000	61.733	61.796	114226.128	32949.284	120671.314	33617.286
4692.208	0.000	0.000	63.519	63.584	114226.128	33082.365	120671.314	33750.502
4692.493	0.000	0.000	63.609	63.673	114226.128	33100.480	120671.314	33768.636
4694.339	0.000	0.000	64.331	64.396	114226.128	33218.569	120671.314	33886.844
4696.194	0.000	0.000	64.336	64.390	114226.128	33337.907	120671.314	34006.293
4698.048	0.000	0.000	65.123	65.164	114226.128	33457.916	120671.314	34126.390
4699.903	0.000	0.000	65.715	65.745	114226.128	33579.269	120671.314	34247.808
4699.953	0.000	0.000	65.726	65.756	114226.128	33582.555	120671.314	34251.095
4700.000	0.000	0.000	65.733	65.763	114226.128	33585.644	120671.314	34254.186
4700.000	0.000	0.000	65.733	65.763	114226.128	33585.644	120671.314	34254.186
4700.783	0.000	0.000	65.806	65.836	114226.128	33637.141	120671.314	34305.707
4702.137	0.000	0.000	65.928	65.958	114226.128	33726.325	120671.314	34394.931
4702.147	0.000	0.000	42.099	42.112	114226.128	33726.865	120671.314	34395.472
4702.172	0.000	0.000	42.101	42.114	114226.128	33727.917	120671.314	34396.524
4702.277	0.000	0.000	42.109	42.122	114226.128	33732.338	120671.314	34400.947
4707.506	0.000	0.000	42.147	42.180	114226.128	33952.624	120671.314	34621.353
4709.356	0.000	0.000	42.231	42.286	114226.128	34030.673	120671.314	34699.484
4710.000	0.000	0.000	42.309	42.324	114226.128	34057.895	120671.314	34726.729
4717.929	0.000	0.000	41.807	41.808	114226.128	34391.372	120671.314	35060.268
4720.000	0.000	0.000	42.066	42.066	114226.128	34478.223	120671.314	35147.119
4726.497	0.000	0.000	42.937	42.937	114226.128	34754.354	120671.314	35423.250
4727.547	0.000	0.000	43.087	43.087	114226.128	34799.517	120671.314	35468.413
4730.000	0.000	0.000	43.526	43.526	114226.128	34905.747	120671.314	35574.644
4735.064	0.000	0.000	44.436	44.438	114226.128	35128.466	120671.314	35797.368
4740.000	0.000	0.000	45.348	45.355	114226.128	35350.053	120671.314	36018.978
4742.932	0.000	0.000	45.893	45.899	114226.128	35483.813	120671.314	36152.756
4750.000	0.000	0.000	47.071	47.079	114226.128	35812.347	120671.314	36481.340
4753.489	0.000	0.000	47.215	47.220	114226.128	35976.830	120671.314	36645.845
4760.000	0.000	0.000	47.323	47.327	114226.128	36284.597	120671.314	36953.641
4761.328	0.000	0.000	47.480	47.487	114226.128	36347.546	120671.314	37016.597
4763.321	0.000	0.000	47.574	47.582	114226.128	36442.268	120671.314	37111.333
4764.427	0.000	0.000	47.736	47.743	114226.128	36494.975	120671.314	37164.048
4764.999	0.000	0.000	47.819	47.826	114226.128	36522.303	120671.314	37191.381
4765.000	0.000	0.000	47.819	47.826	114226.128	36522.351	120671.314	37191.429
4765.313	0.000	0.000	47.806	47.813	114226.128	36537.316	120671.314	37206.396

PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

* * * D E S B R O C E S * * *

PK inicial : 1298.153
PK final : 4969.712

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
4767.305	0.000	0.000	46.895	46.897	114226.128	36631.639	120671.314	37300.727
4769.297	0.000	0.000	46.951	46.953	114226.128	36725.110	120671.314	37394.202
4770.000	0.000	0.000	46.960	46.962	114226.128	36758.120	120671.314	37427.213
4771.289	0.000	0.000	46.983	46.985	114226.128	36818.666	120671.314	37487.761
4773.280	0.000	0.000	47.027	47.028	114226.128	36912.254	120671.314	37581.351
4775.272	0.000	0.000	46.378	46.378	114226.128	37005.285	120671.314	37674.384
4775.480	0.000	0.000	46.393	46.393	114226.128	37014.933	120671.314	37684.032
4777.263	0.000	0.000	46.522	46.522	114226.128	37097.767	120671.314	37766.866
4779.253	0.000	0.000	46.675	46.675	114226.128	37190.497	120671.314	37859.597
4780.000	0.000	0.000	44.729	44.731	114226.128	37224.637	120671.314	37893.736
4781.242	0.000	0.000	44.793	44.794	114226.128	37280.230	120671.314	37949.331
4783.231	0.000	0.000	44.978	44.980	114226.128	37369.507	120671.314	38038.611
4784.854	0.000	0.000	44.759	44.761	114226.128	37442.329	120671.314	38111.436
4784.864	0.000	0.000	44.757	44.760	114226.128	37442.777	120671.314	38111.883
4785.220	0.000	0.000	44.711	44.713	114226.128	37458.702	120671.314	38127.809
4787.207	0.000	0.000	44.249	44.259	114226.128	37547.084	120671.314	38216.203
4788.357	0.000	0.000	43.591	43.601	114226.128	37597.591	120671.314	38266.722
4788.581	0.000	0.000	43.539	43.549	114226.128	37607.350	120671.314	38276.483
4788.591	0.000	0.000	29.874	29.883	114226.128	37607.717	120671.314	38276.850
4788.844	0.000	0.000	29.816	29.826	114226.128	37615.268	120671.314	38284.403
4788.845	0.000	0.000	29.816	29.826	114226.128	37615.298	120671.314	38284.433
4790.000	0.000	0.000	29.631	29.634	114226.128	37649.628	120671.314	38318.771
4798.923	0.000	0.000	28.757	28.760	114226.128	37910.124	120671.314	38579.297
4800.000	0.000	0.000	28.675	28.678	114226.128	37941.051	120671.314	38610.228
4800.005	0.000	0.000	28.674	28.678	114226.128	37941.195	120671.314	38610.371
4807.551	0.000	0.000	27.717	27.724	114226.128	38153.959	120671.314	38823.175
4810.000	0.406	0.406	26.927	26.936	114226.625	38220.871	120671.812	38890.106
4813.667	11.490	11.499	19.180	19.184	114248.437	38305.410	120693.641	38974.667
4816.183	30.696	30.709	0.000	0.000	114301.506	38329.538	120746.739	38998.800
4819.023	32.972	32.988	0.000	0.000	114391.914	38329.538	120837.189	38998.800
4819.999	33.310	33.326	0.000	0.000	114424.260	38329.538	120869.550	38998.800
4820.000	33.310	33.326	0.000	0.000	114424.293	38329.538	120869.583	38998.800
4825.582	35.041	35.052	0.000	0.000	114615.061	38329.538	121060.429	38998.800
4830.000	36.448	36.457	0.000	0.000	114772.981	38329.538	121218.394	38998.800
4833.466	37.292	37.302	0.000	0.000	114900.773	38329.538	121346.219	38998.800
4839.942	38.502	38.515	0.000	0.000	115146.193	38329.538	121591.716	38998.800
4839.946	38.502	38.516	0.000	0.000	115146.347	38329.538	121591.870	38998.800

1.1.1.2.2. ENLACE DE CASILLA

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 354.871

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
104.834	0.613	0.613	13.700	13.701	0.000	0.000	0.000	0.000
110.000	0.619	0.620	13.365	13.368	3.183	69.909	3.183	69.917
114.707	0.623	0.623	12.910	12.914	6.106	131.747	6.108	131.772
120.000	0.626	0.627	12.430	12.435	9.412	198.810	9.414	198.857
123.069	0.629	0.629	12.224	12.230	11.338	236.642	11.341	236.706
128.868	0.706	0.706	12.194	12.203	15.208	307.443	15.214	307.552
130.000	0.998	0.999	11.873	11.883	16.173	321.065	16.179	321.185
131.256	1.201	1.202	11.440	11.450	17.554	335.706	17.561	335.838
131.732	1.204	1.205	11.276	11.286	18.126	341.112	18.134	341.249
131.814	1.205	1.206	11.249	11.259	18.225	342.036	18.233	342.173
134.185	7.193	7.199	4.463	4.467	28.181	360.663	28.197	360.816
134.834	10.958	10.967	0.592	0.593	34.071	362.303	34.092	362.458
135.610	11.323	11.332	0.000	0.000	42.716	362.533	42.744	362.688
140.000	13.413	13.426	0.000	0.000	97.011	362.533	97.088	362.688
140.544	13.492	13.505	0.000	0.000	104.329	362.533	104.414	362.688
148.145	14.710	14.733	0.000	0.000	211.509	362.533	211.735	362.688
150.000	15.107	15.134	0.000	0.000	239.164	362.533	239.437	362.688
156.260	15.658	15.704	0.000	0.000	335.458	362.533	335.960	362.688
158.020	15.613	15.666	0.000	0.000	362.977	362.533	363.566	362.688
160.000	15.058	15.081	0.000	0.000	393.341	362.533	394.007	362.688
161.814	14.892	14.915	0.000	0.000	420.506	362.533	421.214	362.688
164.157	16.016	16.036	0.000	0.000	456.715	362.533	457.473	362.688
164.167	16.021	16.041	0.000	0.000	456.875	362.533	457.634	362.688
170.000	18.818	18.830	0.000	0.000	558.484	362.533	559.336	362.688
178.086	20.469	20.497	0.000	0.000	717.323	362.533	718.336	362.688
178.096	20.471	20.499	0.000	0.000	717.528	362.533	718.541	362.688
180.000	20.863	20.896	0.000	0.000	756.878	362.533	757.949	362.688
186.965	21.877	21.915	0.000	0.000	905.719	362.533	907.037	362.688
190.000	22.047	22.098	0.000	0.000	972.374	362.533	973.826	362.688
191.564	22.109	22.152	0.000	0.000	1006.905	362.533	1008.429	362.688
195.738	22.314	22.346	0.000	0.000	1099.615	362.533	1101.297	362.688
198.795	22.470	22.503	0.000	0.000	1168.068	362.533	1169.849	362.688
200.000	22.509	22.543	0.000	0.000	1195.168	362.533	1196.989	362.688
204.474	22.091	22.125	0.000	0.000	1294.939	362.533	1296.912	362.688
210.000	21.538	21.573	0.000	0.000	1415.488	362.533	1417.648	362.688
213.643	21.079	21.119	0.000	0.000	1493.115	362.533	1495.411	362.688
215.876	20.735	20.779	0.000	0.000	1539.801	362.533	1542.190	362.688

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 354.871

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
215.877	20.735	20.779	0.000	0.000	1539.821	362.533	1542.211	362.688
220.000	19.842	19.893	0.000	0.000	1623.470	362.533	1626.055	362.688
226.572	18.338	18.397	0.000	0.000	1748.928	362.533	1751.877	362.688
226.582	18.335	18.395	0.000	0.000	1749.111	362.533	1752.061	362.688
229.860	17.587	17.651	0.000	0.000	1807.988	362.533	1811.141	362.688
229.870	17.585	17.649	0.000	0.000	1808.164	362.533	1811.318	362.688
230.000	17.555	17.619	0.000	0.000	1810.448	362.533	1813.610	362.688
235.513	16.359	16.438	0.000	0.000	1903.933	362.533	1907.490	362.688
240.000	14.501	14.588	0.000	0.000	1973.168	362.533	1977.097	362.688
244.592	11.423	11.503	3.757	3.782	2032.689	371.159	2037.003	371.372
250.000	7.012	7.074	8.688	8.761	2082.537	404.809	2087.237	405.288
251.435	5.909	5.967	9.786	9.878	2091.808	418.064	2096.594	418.661
256.367	2.580	2.623	13.469	13.662	2112.744	475.411	2117.775	476.708
257.543	1.788	1.826	14.373	14.601	2115.312	491.783	2120.392	493.326
257.544	1.787	1.826	14.374	14.601	2115.314	491.797	2120.393	493.341
258.942	0.898	0.919	15.480	15.782	2117.190	512.665	2122.312	514.579
260.000	0.847	0.863	16.001	16.356	2118.113	529.318	2123.255	531.580
260.361	0.842	0.858	16.075	16.429	2118.418	535.108	2123.565	537.498
262.515	0.818	0.830	16.517	16.873	2120.206	570.209	2125.383	573.365
264.672	0.794	0.805	16.934	17.301	2121.944	606.286	2127.147	610.221
266.827	0.763	0.771	17.327	17.715	2123.622	643.202	2128.844	647.950
268.982	0.729	0.734	17.699	18.117	2125.230	680.943	2130.466	686.558
270.000	0.717	0.721	17.872	18.308	2125.966	699.049	2131.207	705.098
271.137	0.717	0.722	17.915	18.335	2126.781	719.394	2132.027	725.930
273.293	0.718	0.723	18.011	18.405	2128.329	758.122	2133.584	765.536
275.449	0.719	0.724	18.107	18.477	2129.878	797.058	2135.143	805.295
277.603	0.720	0.725	18.206	18.555	2131.428	836.167	2136.702	845.179
279.760	0.721	0.725	18.303	18.635	2132.982	875.542	2138.266	885.288
280.000	0.721	0.726	18.317	18.648	2133.156	879.936	2138.440	889.762
281.914	0.712	0.716	18.294	18.595	2134.527	914.973	2139.820	925.404
284.070	0.703	0.706	18.271	18.542	2136.052	954.389	2141.353	965.438
286.224	0.693	0.696	18.248	18.494	2137.556	993.720	2142.863	1005.326
288.380	0.684	0.686	18.226	18.450	2139.040	1033.040	2144.353	1045.151
290.000	0.677	0.679	18.217	18.426	2140.143	1062.558	2145.459	1075.021
290.537	0.677	0.679	18.188	18.396	2140.506	1072.333	2145.823	1084.908
292.691	0.675	0.677	18.099	18.300	2141.962	1111.414	2147.283	1124.429
294.846	0.674	0.676	18.003	18.200	2143.416	1150.314	2148.741	1163.759

PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

*** DESBROCES ***

PK inicial : 0.000
PK final : 354.871

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
297.002	0.673	0.674	17.900	18.094	2144.868	1189.017	2150.197	1202.884
299.158	0.671	0.673	17.792	17.985	2146.317	1227.493	2151.650	1241.777
300.000	0.671	0.673	17.756	17.949	2146.882	1242.459	2152.216	1256.906
301.312	0.672	0.674	17.639	17.828	2147.763	1265.678	2153.099	1280.375
303.467	0.675	0.676	17.455	17.638	2149.214	1303.491	2154.554	1318.590
305.624	0.677	0.679	17.263	17.440	2150.672	1340.934	2156.016	1356.420
307.780	0.679	0.681	17.061	17.232	2152.134	1377.934	2157.482	1393.797
309.934	0.682	0.684	16.852	17.018	2153.599	1414.458	2158.952	1430.683
310.000	0.682	0.684	16.849	17.015	2153.644	1415.570	2158.997	1431.806
314.670	0.673	0.675	16.652	16.817	2156.808	1493.795	2162.170	1510.804
315.000	0.673	0.674	16.659	16.824	2157.030	1499.291	2162.393	1516.355
320.000	0.718	0.722	16.090	16.230	2160.505	1581.162	2165.883	1598.991
320.354	0.715	0.719	16.019	16.157	2160.759	1586.845	2166.138	1604.723
326.662	0.675	0.677	15.406	15.536	2165.144	1685.959	2170.542	1704.683
327.686	0.669	0.671	15.378	15.512	2165.832	1701.720	2171.232	1720.579
329.332	0.893	0.898	14.462	14.542	2167.118	1726.278	2172.523	1745.313
330.000	1.241	1.250	14.011	14.101	2167.830	1735.788	2173.241	1754.880
331.874	1.955	1.966	12.282	12.401	2170.826	1760.423	2176.255	1779.712
332.382	2.217	2.224	11.856	11.973	2171.886	1766.554	2177.319	1785.903
333.276	2.724	2.732	11.095	11.226	2174.094	1776.814	2179.534	1796.272
334.658	3.526	3.536	10.075	10.221	2178.413	1791.442	2183.865	1811.092
334.934	3.696	3.706	9.874	10.017	2179.409	1794.195	2184.864	1813.885
336.031	4.341	4.354	9.104	9.269	2183.817	1804.605	2189.285	1824.463
337.400	5.149	5.164	8.259	8.437	2190.313	1816.490	2195.800	1836.583
338.762	6.089	6.112	7.277	7.478	2197.966	1827.071	2203.479	1847.422
339.892	5.997	6.023	6.689	6.888	2204.795	1834.962	2210.335	1855.538
340.000	5.973	5.999	6.636	6.837	2205.441	1835.681	2210.984	1856.280
340.118	5.941	5.968	6.583	6.782	2206.144	1836.461	2211.690	1857.083
340.636	5.807	5.835	6.357	6.549	2209.187	1839.812	2214.747	1860.536
340.822	5.765	5.793	6.274	6.462	2210.263	1840.987	2215.829	1861.746
341.466	5.732	5.780	5.879	6.043	2213.965	1844.901	2219.555	1865.773
342.808	6.077	6.180	4.723	4.813	2221.889	1852.015	2227.581	1873.057
343.256	5.976	6.076	4.593	4.676	2224.589	1854.102	2230.326	1875.183
344.429	4.958	5.042	4.321	4.393	2231.001	1859.330	2236.847	1880.502
345.923	3.872	3.937	4.073	4.141	2237.597	1865.601	2243.554	1886.877
347.579	2.862	2.903	3.859	3.927	2243.173	1872.168	2249.218	1893.557
349.383	2.104	2.136	3.645	3.711	2247.653	1878.936	2253.764	1900.447

PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

*** DESBROCES ***

PK inicial : 0.000
PK final : 354.871

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
350.000	1.918	1.949	3.582	3.649	2248.893	1881.166	2255.024	1902.718
351.046	1.262	1.272	3.880	3.963	2250.557	1885.068	2256.709	1906.699
351.308	1.051	1.057	4.007	4.087	2250.860	1886.102	2257.014	1907.754
354.060	0.706	0.710	3.773	3.816	2253.277	1896.807	2259.445	1918.628
354.866	0.695	0.698	3.699	3.742	2253.842	1899.818	2260.013	1921.674
354.869	0.695	0.698	3.699	3.742	2253.844	1899.829	2260.015	1921.685
354.870	0.695	0.698	3.699	3.742	2253.844	1899.833	2260.015	1921.689
354.871	0.695	0.698	3.699	3.742	2253.845	1899.836	2260.016	1921.693

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	5.249	5.252	0.000	0.000	0.000	0.000	0.000	0.000
0.005	5.250	5.253	0.000	0.000	0.026	0.000	0.026	0.000
10.000	9.071	9.073	0.000	0.000	71.596	0.000	71.623	0.000
13.372	11.445	11.447	0.000	0.000	106.187	0.000	106.219	0.000
13.929	11.698	11.699	0.000	0.000	112.632	0.000	112.665	0.000
15.478	12.485	12.486	0.000	0.000	131.362	0.000	131.396	0.000
15.830	12.683	12.683	0.000	0.000	135.792	0.000	135.826	0.000
15.981	12.763	12.764	0.000	0.000	137.713	0.000	137.747	0.000
16.734	13.187	13.187	0.000	0.000	147.483	0.000	147.518	0.000
17.029	13.336	13.336	0.000	0.000	151.395	0.000	151.430	0.000
18.587	14.205	14.205	0.000	0.000	172.850	0.000	172.885	0.000
20.000	12.594	12.594	0.000	0.000	191.784	0.000	191.819	0.000
20.147	13.220	13.220	0.000	0.000	193.681	0.000	193.716	0.000
20.263	13.270	13.270	0.000	0.000	195.218	0.000	195.253	0.000
21.711	13.525	13.526	0.000	0.000	214.617	0.000	214.653	0.000
21.791	13.539	13.540	0.000	0.000	215.700	0.000	215.735	0.000
23.279	9.444	9.446	4.370	4.371	232.799	3.251	232.837	3.252
24.549	4.912	4.914	7.015	7.018	241.915	10.480	241.956	10.484
24.851	4.473	4.475	7.562	7.566	243.332	12.682	243.373	12.686
25.000	4.266	4.268	7.824	7.828	243.983	13.828	244.025	13.833
26.426	2.668	2.670	9.933	9.942	248.927	26.488	248.972	26.504
28.004	1.278	1.280	11.899	11.916	252.040	43.713	252.088	43.750
29.434	0.212	0.213	13.080	13.107	253.106	61.573	253.155	61.642
29.586	0.111	0.111	13.172	13.199	253.131	63.568	253.180	63.641
30.000	0.000	0.000	13.261	13.290	253.154	69.040	253.203	69.124
31.171	0.000	0.000	13.175	13.211	253.154	84.518	253.203	84.641
32.758	0.000	0.000	13.156	13.201	253.154	105.412	253.203	105.599
33.762	0.000	0.000	13.200	13.252	253.154	118.643	253.203	118.879
34.353	0.000	0.000	13.122	13.177	253.154	126.421	253.203	126.689
35.948	0.000	0.000	12.987	13.052	253.154	147.242	253.203	147.606
37.546	0.000	0.000	12.962	13.039	253.154	167.976	253.203	168.453
37.723	0.000	0.000	12.967	13.044	253.154	170.270	253.203	170.761
37.954	0.000	0.000	12.941	13.020	253.154	173.263	253.203	173.771
38.689	0.000	0.000	12.873	12.957	253.154	182.749	253.203	183.318
40.000	0.000	0.000	12.812	12.904	253.154	199.586	253.203	200.269
40.237	0.000	0.000	12.801	12.896	253.154	202.621	253.203	203.327
41.082	0.000	0.000	12.784	12.888	253.154	213.431	253.203	214.221

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
41.786	0.000	0.000	12.717	12.829	253.154	222.407	253.203	223.273
42.625	0.000	0.000	12.666	12.787	253.154	233.055	253.203	234.019
43.332	0.000	0.000	12.613	12.743	253.154	241.991	253.203	243.044
44.179	0.000	0.000	12.578	12.719	253.154	252.660	253.203	253.827
44.881	0.000	0.000	12.540	12.691	253.154	261.476	253.203	262.746
45.743	0.000	0.000	12.523	12.687	253.154	272.278	253.203	273.684
46.429	0.000	0.000	12.501	12.675	253.154	280.862	253.203	282.383
47.314	0.000	0.000	12.501	12.690	253.154	291.925	253.203	293.607
47.976	0.000	0.000	12.493	12.693	253.154	300.198	253.203	302.009
48.891	0.000	0.000	12.511	12.728	253.154	311.637	253.203	313.638
49.524	0.000	0.000	12.516	12.744	253.154	319.558	253.203	321.700
50.000	0.000	0.000	12.531	12.769	253.154	325.519	253.203	327.772
50.473	0.000	0.000	12.530	12.767	253.154	331.446	253.203	333.811
51.072	0.000	0.000	12.516	12.751	253.154	338.947	253.203	341.454
52.058	0.000	0.000	12.526	12.758	253.154	351.293	253.203	354.030
52.618	0.000	0.000	12.525	12.756	253.154	358.307	253.203	361.173
53.642	0.000	0.000	12.557	12.787	253.154	371.149	253.203	374.251
54.165	0.000	0.000	12.567	12.796	253.154	377.718	253.203	380.941
55.226	0.000	0.000	12.621	12.851	253.154	391.081	253.203	394.546
55.714	0.000	0.000	12.641	12.870	253.154	397.245	253.203	400.822
56.807	0.000	0.000	12.720	12.951	253.154	411.104	253.203	414.934
57.263	0.000	0.000	12.748	12.980	253.154	416.911	253.203	420.846
58.384	0.000	0.000	12.852	13.088	253.154	431.260	253.203	435.457
58.808	0.000	0.000	12.887	13.124	253.154	436.716	253.203	441.014
59.952	0.000	0.000	13.018	13.260	253.154	451.534	253.203	456.106
60.000	0.000	0.000	13.022	13.265	253.154	452.159	253.203	456.742
60.355	0.000	0.000	13.050	13.289	253.154	456.787	253.203	461.456
61.513	0.000	0.000	13.177	13.407	253.154	471.972	253.203	476.913
61.905	0.000	0.000	13.216	13.443	253.154	477.145	253.203	482.175
63.064	0.000	0.000	13.368	13.586	253.154	492.550	253.203	497.838
63.452	0.000	0.000	13.414	13.629	253.154	497.746	253.203	503.118
64.604	0.000	0.000	13.587	13.794	253.154	513.298	253.203	518.914
64.999	0.000	0.000	13.643	13.847	253.154	518.676	253.203	524.373
66.130	0.000	0.000	13.838	14.034	253.154	534.216	253.203	540.140
66.547	0.000	0.000	13.904	14.097	253.154	540.001	253.203	546.005
67.644	0.000	0.000	14.115	14.301	253.154	555.369	253.203	561.581
68.094	0.000	0.000	14.196	14.378	253.154	561.738	253.203	568.034

PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** DESBROCES ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
69.142	0.000	0.000	14.419	14.595	253.154	576.732	253.203	583.216
69.642	0.000	0.000	14.520	14.693	253.154	583.967	253.203	590.538
70.000	0.000	0.000	14.599	14.770	253.154	589.180	253.203	595.812
70.624	0.000	0.000	14.735	14.903	253.154	598.332	253.203	605.070
71.190	0.000	0.000	14.847	15.012	253.154	606.704	253.203	613.536
71.213	0.000	0.000	14.851	15.017	253.154	607.045	253.203	613.881
72.088	0.000	0.000	15.059	15.221	253.154	620.131	253.203	627.111
72.737	0.000	0.000	15.204	15.364	253.154	629.951	253.203	637.035
73.536	0.000	0.000	15.410	15.567	253.154	642.182	253.203	649.392
74.285	0.000	0.000	15.593	15.746	253.154	653.792	253.203	661.119
74.966	0.000	0.000	15.781	15.932	253.154	664.475	253.203	671.905
75.833	0.000	0.000	16.011	16.158	253.154	678.257	253.203	685.816
76.376	0.000	0.000	16.174	16.318	253.154	686.996	253.203	694.633
77.295	0.000	0.000	16.443	16.582	253.154	701.983	253.203	709.750
77.379	0.000	0.000	16.423	16.562	253.154	703.364	253.203	711.142
78.922	0.000	0.000	16.119	16.244	253.154	728.470	253.203	736.452
79.104	0.000	0.000	16.090	16.214	253.154	731.401	253.203	739.405
80.000	0.000	0.000	15.965	16.081	253.154	745.762	253.203	753.873
80.011	0.000	0.000	15.964	16.080	253.154	745.937	253.203	754.050
81.279	0.000	0.000	15.828	15.932	253.154	766.093	253.203	774.346
82.513	0.000	0.000	15.765	15.858	253.154	785.586	253.203	793.960
82.812	0.000	0.000	15.733	15.823	253.154	790.295	253.203	798.696
84.346	0.000	0.000	15.633	15.711	253.154	814.353	253.203	822.883
85.880	0.000	0.000	15.639	15.705	253.154	838.339	253.203	846.979
87.208	0.000	0.000	15.728	15.786	253.154	859.167	253.203	867.889
87.413	0.000	0.000	15.739	15.795	253.154	862.392	253.203	871.126
88.947	0.000	0.000	15.768	15.815	253.154	886.558	253.203	895.371
90.000	0.000	0.000	15.499	15.539	253.154	903.020	253.203	911.879
90.480	0.000	0.000	15.356	15.393	253.154	910.425	253.203	919.303
92.014	0.000	0.000	14.902	14.932	253.154	933.633	253.203	942.563
93.221	0.000	0.000	14.549	14.574	253.154	951.407	253.203	960.370
93.548	0.000	0.000	14.455	14.478	253.154	956.149	253.203	965.120
95.081	0.000	0.000	14.013	14.031	253.154	977.970	253.203	986.973
96.614	0.000	0.000	13.577	13.590	253.154	999.117	253.203	1008.144
98.148	0.000	0.000	13.145	13.155	253.154	1019.612	253.203	1028.658
99.682	0.336	0.337	12.383	12.389	253.412	1039.192	253.461	1048.250
100.000	0.568	0.568	12.063	12.069	253.555	1043.079	253.605	1052.139

PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** DESBROCES ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
100.005	0.571	0.571	12.059	12.065	253.558	1043.139	253.608	1052.199
100.015	0.577	0.577	12.051	12.057	253.564	1043.260	253.613	1052.320
101.162	1.403	1.404	11.001	11.007	254.700	1056.480	254.750	1065.546
101.213	1.441	1.442	10.953	10.958	254.772	1057.040	254.822	1066.106
103.174	2.839	2.841	9.140	9.144	258.968	1076.741	259.021	1085.817
105.134	5.298	5.301	6.266	6.269	266.943	1091.839	267.000	1100.922
107.094	11.148	11.154	0.000	0.000	283.060	1097.979	283.126	1107.065
109.053	10.623	10.629	0.000	0.000	304.385	1097.979	304.462	1107.065
110.000	9.679	9.684	0.000	0.000	313.998	1097.979	314.080	1107.065
111.012	12.796	12.803	0.000	0.000	325.370	1097.979	325.458	1107.065
112.971	14.810	14.818	0.000	0.000	352.410	1097.979	352.513	1107.065
114.930	15.056	15.065	0.000	0.000	381.664	1097.979	381.783	1107.065
116.888	15.293	15.302	0.000	0.000	411.376	1097.979	411.513	1107.065
118.846	15.528	15.538	0.000	0.000	441.550	1097.979	441.705	1107.065
120.000	15.667	15.677	0.000	0.000	459.550	1097.979	459.716	1107.065
120.804	15.679	15.689	0.000	0.000	472.151	1097.979	472.325	1107.065
122.760	15.706	15.716	0.000	0.000	502.845	1097.979	503.039	1107.065
124.716	15.734	15.744	0.000	0.000	533.594	1097.979	533.808	1107.065
126.672	15.762	15.773	0.000	0.000	564.397	1097.979	564.632	1107.065
128.628	15.795	15.806	0.000	0.000	595.260	1097.979	595.515	1107.065
130.000	15.823	15.834	0.000	0.000	616.950	1097.979	617.220	1107.065
130.582	15.788	15.801	0.000	0.000	626.149	1097.979	626.426	1107.065
132.536	15.679	15.697	0.000	0.000	656.893	1097.979	657.200	1107.065
134.488	15.578	15.603	0.000	0.000	687.400	1097.979	687.749	1107.065
136.439	15.484	15.517	0.000	0.000	717.701	1097.979	718.107	1107.065
138.391	15.399	15.441	0.000	0.000	747.844	1097.979	748.322	1107.065
140.000	15.335	15.385	0.000	0.000	772.569	1097.979	773.122	1107.065
140.341	15.295	15.343	0.000	0.000	777.792	1097.979	778.361	1107.065
142.290	15.076	15.113	0.000	0.000	807.389	1097.979	808.040	1107.065
144.237	14.858	14.886	0.000	0.000	836.531	1097.979	837.244	1107.065
146.184	14.650	14.672	0.000	0.000	865.257	1097.979	866.018	1107.065
148.130	14.455	14.474	0.000	0.000	893.576	1097.979	894.376	1107.065
150.000	14.279	14.298	0.000	0.000	920.443	1097.979	921.278	1107.065
150.064	14.277	14.296	0.000	0.000	921.357	1097.979	922.193	1107.065
150.213	14.274	14.293	0.000	0.000	923.484	1097.979	924.322	1107.065
160.000	14.169	14.275	0.000	0.000	1062.673	1097.979	1064.119	1107.065
166.844	10.163	10.228	2.998	3.141	1145.939	1108.239	1147.966	1117.814

PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** DESBROCES ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
166.854	10.161	10.225	1.488	1.632	1146.041	1108.262	1148.069	1117.838
169.621	9.696	9.712	1.831	2.188	1173.512	1112.853	1175.652	1123.123
170.000	9.230	9.245	2.275	2.661	1177.099	1113.631	1179.245	1124.042
172.394	0.000	0.000	10.609	10.841	1188.147	1129.054	1190.311	1140.204
175.165	0.000	0.000	11.782	11.883	1188.147	1160.077	1190.311	1171.687
177.938	0.000	0.000	12.900	12.940	1188.147	1194.299	1190.311	1206.104
180.000	0.000	0.000	13.691	13.738	1188.147	1221.715	1190.311	1233.609
180.710	0.000	0.000	13.583	13.627	1188.147	1231.398	1190.311	1243.323
183.482	0.000	0.000	13.091	13.127	1188.147	1268.368	1190.311	1280.404
186.255	0.000	0.000	12.545	12.584	1188.147	1303.913	1190.311	1316.054
189.027	0.000	0.000	11.962	12.013	1188.147	1337.879	1190.311	1350.146
190.000	0.000	0.000	11.736	11.793	1188.147	1349.408	1190.311	1361.728
191.798	0.000	0.000	11.565	11.609	1188.147	1370.357	1190.311	1382.766
200.000	0.000	0.000	11.145	11.158	1188.147	1463.491	1190.311	1476.134
205.133	0.000	0.000	11.543	11.571	1188.147	1521.721	1190.311	1534.467
210.000	1.483	1.485	9.438	9.460	1191.757	1572.778	1193.924	1585.646
219.995	0.000	0.000	13.654	13.654	1199.169	1688.176	1201.344	1701.160
220.000	0.000	0.000	13.654	13.655	1199.169	1688.244	1201.344	1701.228
220.005	0.000	0.000	13.654	13.655	1199.169	1688.313	1201.344	1701.296
230.000	0.000	0.000	13.778	13.795	1199.169	1825.405	1201.344	1838.482
240.000	0.000	0.000	14.751	14.766	1199.169	1968.052	1201.344	1981.290
250.000	0.000	0.000	15.383	15.390	1199.169	2118.724	1201.344	2132.070
260.000	0.000	0.000	16.811	16.819	1199.169	2279.693	1201.344	2293.112
263.874	0.000	0.000	17.370	17.377	1199.169	2345.901	1201.344	2359.350
270.000	0.000	0.000	18.305	18.312	1199.169	2455.173	1201.344	2468.666
280.000	0.000	0.000	20.764	20.764	1199.169	2650.518	1201.344	2664.046
280.000	0.000	0.000	20.764	20.764	1199.169	2650.518	1201.344	2664.046
281.105	0.000	0.000	21.063	21.063	1199.169	2673.627	1201.344	2687.155
283.706	0.000	0.000	21.796	21.796	1199.169	2729.364	1201.344	2742.894
286.302	0.000	0.000	22.649	22.651	1199.169	2787.053	1201.344	2800.587
288.886	0.000	0.000	23.620	23.625	1199.169	2846.833	1201.344	2860.375
290.000	0.000	0.000	24.087	24.093	1199.169	2873.406	1201.344	2886.954
290.267	0.000	0.000	24.136	24.142	1199.169	2879.843	1201.344	2893.393
290.277	0.000	0.000	24.138	24.144	1199.169	2880.085	1201.344	2893.635
291.454	0.000	0.000	24.355	24.360	1199.169	2908.623	1201.344	2922.179
294.001	0.000	0.000	24.943	24.949	1199.169	2971.404	1201.344	2984.974
296.525	0.000	0.000	25.645	25.650	1199.169	3035.247	1201.344	3048.830

PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

*** DESBROCES ***

PK inicial : 0.000
PK final : 435.793

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
299.024	0.000	0.000	26.455	26.460	1199.169	3100.346	1201.344	3113.942
300.000	0.000	0.000	26.814	26.819	1199.169	3126.341	1201.344	3139.942
300.183	0.000	0.000	26.839	26.844	1199.169	3131.251	1201.344	3144.852
301.494	0.000	0.000	27.026	27.029	1199.169	3166.559	1201.344	3180.166
303.938	0.000	0.000	27.480	27.482	1199.169	3233.165	1201.344	3246.779
305.069	0.000	0.000	27.720	27.721	1199.169	3264.381	1201.344	3277.997
307.278	0.000	0.000	28.132	28.132	1199.169	3326.069	1201.344	3339.687
309.509	0.000	0.000	28.605	28.605	1199.169	3389.360	1201.344	3402.978
310.000	0.000	0.000	28.708	28.708	1199.169	3403.430	1201.344	3417.049
311.481	0.600	0.600	29.380	29.380	1200.058	3446.444	1202.233	3460.062
311.762	0.600	0.600	29.507	29.507	1200.226	3454.718	1202.401	3468.336
312.874	0.600	0.600	29.980	29.980	1200.894	3487.793	1203.069	3501.411
314.038	0.600	0.600	30.481	30.481	1201.592	3522.981	1203.767	3536.599
316.335	0.137	0.137	31.408	31.408	1202.439	3594.060	1204.614	3607.678
318.648	0.000	0.000	31.598	31.598	1202.598	3666.926	1204.773	3680.544
320.000	0.000	0.000	31.590	31.590	1202.598	3709.641	1204.773	3723.260
320.980	0.000	0.000	31.439	31.439	1202.598	3740.525	1204.773	3754.144
322.083	0.000	0.000	31.236	31.236	1202.598	3775.090	1204.773	3788.709
323.325	0.000	0.000	31.042	31.042	1202.598	3813.765	1204.773	3827.383
325.683	0.000	0.000	30.611	30.611	1202.598	3886.454	1204.773	3900.073
328.051	0.000	0.000	30.115	30.115	1202.598	3958.354	1204.773	3971.972
329.990	0.000	0.000	29.658	29.658	1202.598	4016.303	1204.773	4029.921
330.000	0.000	0.000	29.655	29.655	1202.598	4016.600	1204.773	4030.218
330.429	0.000	0.000	29.556	29.556	1202.598	4029.300	1204.773	4042.919
332.304	0.000	0.000	29.092	29.093	1202.598	4084.283	1204.773	4097.902
334.397	0.000	0.000	28.632	28.636	1202.598	4144.691	1204.773	4158.316
340.000	0.000	0.000	27.479	27.498	1202.598	4301.888	1204.773	4315.576
347.243	0.000	0.000	27.270	27.272	1202.598	4500.163	1204.773	4513.925
350.000	0.000	0.000	27.155	27.155	1202.598	4575.189	1204.773	4588.953
360.000	0.000	0.000	25.804	25.857	1202.598	4839.984	1204.773	4854.017
364.397	0.000	0.000	24.842	24.875	1202.598	4951.329	1204.773	4965.552
364.432	0.000	0.000	24.835	24.867	1202.598	4952.198	1204.773	4966.422
366.614	0.000	0.000	24.405	24.431	1202.598	5005.919	1204.773	5020.207
370.000	0.000	0.000	23.648	23.672	1202.598	5087.273	1204.773	5101.646
371.619	0.000	0.000	23.261	23.287	1202.598	5125.246	1204.773	5139.659

1.1.1.2.3. REPOSICIÓN DE CAMINOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

*** DESBROCES ***

PK inicial : 0.000
PK final : 188.195

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	6.217	6.261	0.160	0.173	0.000	0.000	0.000	0.000
2.000	5.183	5.230	0.000	0.000	11.401	0.160	11.492	0.173
4.000	5.042	5.063	0.000	0.000	21.626	0.160	21.785	0.173
6.000	5.868	5.883	0.000	0.000	32.536	0.160	32.731	0.173
8.000	5.650	5.710	0.000	0.000	44.055	0.160	44.323	0.173
10.000	5.601	5.657	0.539	0.545	55.307	0.699	55.691	0.718
12.000	6.026	6.064	0.000	0.000	66.934	1.238	67.412	1.263
14.000	5.933	5.953	0.000	0.000	78.892	1.238	79.430	1.263
16.000	5.606	5.656	0.000	0.000	90.432	1.238	91.039	1.263
18.000	5.763	5.818	0.318	0.322	101.801	1.556	102.513	1.585
20.000	5.918	5.961	0.102	0.103	113.481	1.976	114.292	2.011
22.000	5.107	5.114	0.000	0.000	124.507	2.078	125.368	2.114
24.000	5.242	5.246	0.000	0.000	134.856	2.078	135.728	2.114
26.000	4.079	4.087	2.006	2.040	144.177	4.084	145.061	4.154
28.000	0.000	0.000	6.161	6.191	148.255	12.251	149.148	12.386
30.000	0.000	0.000	6.301	6.320	148.255	24.713	149.148	24.897
32.000	0.000	0.000	6.377	6.385	148.255	37.391	149.148	37.603
34.000	0.000	0.000	7.989	8.144	148.255	51.757	149.148	52.132
36.000	0.000	0.000	8.038	8.165	148.255	67.783	149.148	68.442
36.060	0.000	0.000	8.040	8.167	148.255	68.265	149.148	68.931
38.000	0.000	0.000	7.966	8.055	148.255	83.791	149.148	84.667
40.000	0.000	0.000	7.882	7.955	148.255	99.639	149.148	100.677
42.000	0.000	0.000	8.680	8.863	148.255	116.201	149.148	117.495
44.000	0.000	0.000	8.654	8.814	148.255	133.535	149.148	135.171
46.000	0.000	0.000	8.746	8.879	148.255	150.935	149.148	152.864
48.000	0.000	0.000	16.320	17.763	148.255	176.001	149.148	179.505
50.000	0.000	0.000	16.807	18.233	148.255	209.128	149.148	215.500
52.000	0.000	0.000	17.721	19.249	148.255	243.657	149.148	252.982
54.000	0.000	0.000	18.220	19.774	148.255	279.597	149.148	292.005
56.000	0.000	0.000	18.413	19.994	148.255	316.230	149.148	331.773
58.000	0.000	0.000	18.460	19.992	148.255	353.103	149.148	371.758
60.000	0.000	0.000	18.337	19.825	148.255	389.900	149.148	411.576
62.000	0.000	0.000	18.421	19.909	148.255	426.659	149.148	451.310
64.000	0.000	0.000	19.001	20.574	148.255	464.081	149.148	491.794
66.000	0.000	0.000	19.159	20.778	148.255	502.241	149.148	533.146
68.000	0.000	0.000	19.350	20.985	148.255	540.751	149.148	574.909
70.000	0.000	0.000	19.538	21.205	148.255	579.639	149.148	617.099

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

*** DESBROCES ***

PK inicial : 0.000
PK final : 188.195

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
72.000	0.000	0.000	19.784	21.438	148.255	618.962	149.148	659.742
74.000	0.000	0.000	20.060	21.715	148.255	658.806	149.148	702.895
76.000	0.000	0.000	20.428	22.141	148.255	699.293	149.148	746.751
78.000	0.000	0.000	19.985	21.730	148.255	739.706	149.148	790.622
80.000	0.000	0.000	18.476	19.836	148.255	778.167	149.148	832.188
82.000	0.000	0.000	20.449	22.327	148.255	817.092	149.148	874.351
84.000	0.000	0.000	19.344	21.074	148.255	856.885	149.148	917.752
86.000	0.000	0.000	19.301	20.992	148.255	895.531	149.148	959.818
88.000	0.000	0.000	18.845	20.517	148.255	933.676	149.148	1001.326
90.000	0.000	0.000	18.240	19.864	148.255	970.761	149.148	1041.706
92.000	0.000	0.000	17.757	18.664	148.255	1006.758	149.148	1080.234
94.000	0.000	0.000	17.217	18.099	148.255	1041.733	149.148	1116.996
96.000	0.000	0.000	16.680	17.545	148.255	1075.630	149.148	1152.640
98.000	0.000	0.000	16.200	17.145	148.255	1108.509	149.148	1187.331
100.000	0.000	0.000	15.743	16.781	148.255	1140.452	149.148	1221.256
102.000	0.000	0.000	15.018	16.119	148.255	1171.214	149.148	1254.156
104.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
106.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
107.671	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
108.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
110.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
112.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
114.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
116.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
118.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
120.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
122.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
124.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
126.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
128.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
130.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
132.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
134.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
136.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
137.060	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
138.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
140.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

*** DESBROCES ***

PK inicial : 0.000
PK final : 188.195

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
142.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
144.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
146.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
148.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
150.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
152.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
154.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
156.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
158.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
160.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
161.342	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
162.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
164.000	0.000	0.000	0.000	0.000	148.255	1186.232	149.148	1270.275
166.000	9.319	9.746	0.000	0.000	157.574	1186.232	158.895	1270.275
168.000	8.795	9.110	0.000	0.000	175.688	1186.232	177.751	1270.275
170.000	8.644	8.938	0.000	0.000	193.128	1186.232	195.799	1270.275
172.000	8.501	8.769	0.000	0.000	210.272	1186.232	213.506	1270.275
174.000	8.066	8.254	0.000	0.000	226.839	1186.232	230.529	1270.275
176.000	7.954	8.114	0.000	0.000	242.858	1186.232	246.896	1270.275
178.000	7.854	7.996	0.000	0.000	258.666	1186.232	263.007	1270.275
180.000	7.314	7.345	0.000	0.000	273.834	1186.232	278.348	1270.275
182.000	6.102	6.128	0.000	0.000	287.250	1186.232	291.820	1270.275
184.000	6.141	6.167	0.000	0.000	299.493	1186.232	304.115	1270.275
186.000	6.196	6.224	0.000	0.000	311.830	1186.232	316.507	1270.275
188.000	6.000	6.016	0.000	0.000	324.026	1186.232	328.748	1270.275
188.195	6.008	6.024	0.000	0.000	325.197	1186.232	329.922	1270.275

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PROYECTO : VARIANTE DE OURENSE
EJE: 13: REP. CAMINO EN P.K.2+120

*** DESBROCES ***

PK inicial : 0.000
PK final : 222.519

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	2.648	2.745	2.011	2.013	0.000	0.000	0.000	0.000
5.000	4.271	4.292	0.565	0.634	17.295	6.439	17.591	6.617
10.000	4.448	4.471	1.049	1.109	39.092	10.473	39.500	10.977
15.000	4.561	4.576	1.194	1.214	61.615	16.081	62.118	16.784
20.000	1.164	1.167	6.229	6.359	75.929	34.636	76.476	35.716
25.000	2.148	2.173	5.200	5.352	84.211	63.209	84.827	64.994
25.057	2.159	2.184	5.280	5.448	84.334	63.507	84.951	65.302
30.000	2.116	2.149	7.853	8.340	94.901	95.966	95.662	99.379
30.000	2.116	2.149	7.853	8.340	94.901	95.966	95.662	99.379
35.000	0.000	0.000	8.660	8.759	100.191	137.249	101.034	142.128
40.000	0.000	0.000	8.521	8.551	100.191	180.201	101.034	185.404
45.000	0.000	0.000	8.114	8.200	100.191	221.788	101.034	227.282
50.000	0.000	0.000	8.326	8.419	100.191	262.888	101.034	268.830
55.000	0.000	0.000	8.225	8.269	100.191	304.267	101.034	310.549
60.000	0.000	0.000	8.130	8.140	100.191	345.156	101.034	351.572
65.000	0.000	0.000	8.023	8.059	100.191	385.537	101.034	392.072
70.000	0.000	0.000	7.693	7.757	100.191	424.825	101.034	431.614
71.376	0.000	0.000	7.665	7.731	100.191	435.392	101.034	442.270
75.000	0.000	0.000	7.674	7.759	100.191	463.186	101.034	470.337
77.500	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
80.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
85.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
90.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
95.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
100.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
105.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
110.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
115.000	0.000	0.000	0.000	0.000	100.191	472.778	101.034	480.036
117.500	0.000	0.000	7.468	7.476	100.191	482.114	101.034	489.381
120.000	0.000	0.000	7.430	7.439	100.191	500.736	101.034	508.026
123.182	0.000	0.000	7.410	7.424	100.191	524.347	101.034	531.673
125.000	0.000	0.000	7.401	7.417	100.191	537.810	101.034	545.164
130.000	0.000	0.000	7.223	7.236	100.191	574.369	101.034	581.794
135.000	6.620	6.621	0.000	0.000	116.742	592.425	117.588	599.883
140.000	0.000	0.000	7.085	7.126	133.292	610.139	134.141	617.699
145.000	0.000	0.000	7.127	7.160	133.292	645.668	134.141	653.415
150.000	1.772	1.788	5.857	5.945	137.722	678.127	138.611	686.177

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PROYECTO : VARIANTE DE OURENSE
EJE: 13: REP. CAMINO EN P.K.2+120

*** DESBROCES ***

PK inicial : 0.000
PK final : 222.519

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
154.088	2.324	2.338	5.095	5.159	146.094	700.512	147.044	708.873
155.000	2.540	2.552	4.696	4.744	148.312	704.977	149.274	713.389
160.000	3.592	3.606	3.931	3.989	163.644	726.543	164.671	735.220
165.000	5.074	5.088	2.000	2.038	185.309	741.369	186.407	750.287
170.000	5.690	5.700	0.970	0.999	212.220	748.793	213.376	757.879
175.000	7.107	7.168	0.323	0.345	244.213	752.027	245.544	761.238
180.000	7.368	7.407	0.000	0.000	280.400	752.835	281.981	762.100
185.000	7.189	7.261	0.000	0.000	316.794	752.835	318.650	762.100
190.000	7.022	7.174	0.000	0.000	352.322	752.835	354.737	762.100
195.000	7.092	7.161	0.000	0.000	387.607	752.835	390.575	762.100
200.000	6.791	6.821	0.000	0.000	422.315	752.835	425.530	762.100
200.000	6.791	6.821	0.000	0.000	422.315	752.835	425.530	762.100
205.000	7.084	7.097	0.000	0.000	457.002	752.835	460.327	762.100
210.000	6.536	6.580	0.000	0.000	491.052	752.835	494.521	762.100
215.000	5.804	5.832	0.673	0.700	521.902	754.519	525.551	763.850
220.000	5.257	5.262	0.816	0.837	549.553	758.242	553.286	767.694
222.519	3.137	3.176	2.446	2.449	560.126	762.349	563.914	771.833

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PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

*** DESBROCES ***

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	5.011	5.032	0.000	0.000	0.000	0.000	0.000	0.000
2.000	4.946	4.972	0.000	0.000	9.957	0.000	10.004	0.000
4.000	5.162	5.172	0.000	0.000	20.065	0.000	20.149	0.000
6.000	4.282	4.305	0.000	0.000	29.509	0.000	29.626	0.000
8.000	4.356	4.375	0.000	0.000	38.147	0.000	38.305	0.000
10.000	5.576	5.595	0.000	0.000	48.079	0.000	48.275	0.000
12.000	4.889	4.949	0.000	0.000	58.545	0.000	58.819	0.000
14.000	4.832	4.872	0.000	0.000	68.266	0.000	68.640	0.000
16.000	5.685	5.744	0.000	0.000	78.783	0.000	79.257	0.000
18.000	6.590	6.669	0.005	0.006	91.058	0.005	91.669	0.006
20.000	6.741	6.806	0.000	0.000	104.390	0.011	105.143	0.011
22.000	6.758	6.827	0.000	0.000	117.889	0.011	118.776	0.011
24.000	8.064	8.376	0.000	0.000	132.710	0.011	133.980	0.011
26.000	6.609	6.726	0.659	0.697	147.383	0.670	149.082	0.708
27.865	6.600	6.704	0.565	0.622	159.700	1.811	161.607	1.938
28.000	6.593	6.698	0.555	0.610	160.591	1.886	162.511	2.021
30.000	6.563	6.671	0.340	0.368	173.748	2.781	175.881	2.999
32.000	6.491	6.612	0.478	0.514	186.802	3.599	189.164	3.881
34.000	6.394	6.506	3.871	4.551	199.687	7.948	202.282	8.946
36.000	6.347	6.478	4.189	4.899	212.428	16.009	215.266	18.397
38.000	6.294	6.460	4.461	5.191	225.069	24.660	228.204	28.487
40.000	5.830	5.983	4.939	5.688	237.192	34.060	240.647	39.365
42.000	4.834	4.950	5.595	6.500	247.857	44.595	251.581	51.554
44.000	4.747	4.867	6.269	7.300	257.438	56.459	261.398	65.354
46.000	4.329	4.434	7.176	8.257	266.514	69.905	270.700	80.911
46.827	4.349	4.445	7.179	8.261	270.103	75.840	274.371	87.742
46.827	4.349	4.445	0.665	0.746	270.103	75.840	274.371	87.742
48.000	4.383	4.473	0.631	0.724	275.224	76.601	279.601	88.604
50.000	4.477	4.587	0.586	0.717	284.084	77.818	288.661	90.045
52.000	4.104	4.200	1.022	1.135	292.665	79.426	297.448	91.897
54.000	4.243	4.317	0.938	1.067	301.012	81.386	305.966	94.100
56.000	4.556	4.626	0.649	0.755	309.811	82.972	314.909	95.921
56.766	4.425	4.482	0.760	0.849	313.251	83.511	318.397	96.536
57.711	4.181	4.240	0.976	1.045	317.317	84.331	322.518	97.431
58.000	4.074	4.138	1.074	1.136	318.510	84.628	323.728	97.746
60.000	4.306	4.369	0.757	0.797	326.890	86.458	332.235	99.679
62.000	5.704	5.784	0.391	0.470	336.900	87.607	342.387	100.946

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PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

*** DESBROCES ***

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
62.111	5.701	5.780	0.401	0.480	337.533	87.651	343.028	100.999
64.000	5.630	5.744	0.593	0.680	348.236	88.590	353.912	102.095
66.000	5.257	5.368	0.858	0.911	359.123	90.040	365.025	103.686
67.840	5.704	5.802	0.402	0.444	369.207	91.199	375.301	104.933
68.000	5.760	5.857	0.347	0.389	370.124	91.259	376.234	105.000
69.175	5.902	6.004	0.221	0.250	376.976	91.593	383.202	105.375
69.175	5.902	6.004	5.105	5.917	376.976	91.593	383.202	105.375
70.000	5.998	6.113	4.327	5.005	381.885	95.483	388.201	109.880
72.000	6.023	6.116	1.235	1.293	393.906	101.045	400.430	116.178
74.000	9.299	10.434	0.000	0.000	409.228	102.280	416.981	117.471
76.000	10.591	11.945	0.000	0.000	429.117	102.280	439.360	117.471
78.000	11.363	13.035	0.000	0.000	451.070	102.280	464.341	117.471
80.000	11.680	13.599	0.000	0.000	474.113	102.280	490.975	117.471
80.750	11.929	13.916	0.000	0.000	482.966	102.280	501.294	117.471
82.000	12.499	14.664	0.000	0.000	498.233	102.280	519.156	117.471
84.000	13.553	16.044	0.000	0.000	524.285	102.280	549.864	117.471
84.843	13.896	16.450	0.000	0.000	535.855	102.280	563.560	117.471
86.000	14.274	16.837	0.000	0.000	552.152	102.280	582.816	117.471
88.000	14.863	17.395	0.000	0.000	581.289	102.280	617.047	117.471
90.000	15.211	17.687	0.000	0.000	611.363	102.280	652.129	117.471
92.000	15.362	17.932	0.000	0.000	641.935	102.280	687.748	117.471
94.000	15.491	17.576	0.000	0.000	672.789	102.280	723.255	117.471
96.000	15.605	17.720	0.000	0.000	703.885	102.280	758.551	117.471
98.000	15.817	18.005	0.000	0.000	735.308	102.280	794.276	117.471
99.705	16.079	18.378	0.000	0.000	762.500	102.280	825.293	117.471
100.000	16.125	18.452	0.000	0.000	767.250	102.280	830.725	117.471
102.000	16.438	18.862	0.000	0.000	799.813	102.280	868.040	117.471
104.000	16.749	19.318	0.000	0.000	832.999	102.280	906.220	117.471
106.000	17.070	19.726	0.000	0.000	866.818	102.280	945.263	117.471
108.000	22.240	25.351	0.000	0.000	906.129	102.280	990.339	117.471
110.000	22.737	26.027	0.000	0.000	951.106	102.280	1041.717	117.471
112.000	23.487	27.024	0.000	0.000	997.331	102.280	1094.768	117.471
114.000	24.045	27.831	0.000	0.000	1044.863	102.280	1149.624	117.471
114.569	24.185	27.975	0.000	0.000	1058.585	102.280	1165.500	117.471
116.000	24.639	28.583	0.000	0.000	1093.519	102.280	1205.968	117.471
118.000	25.257	29.416	0.000	0.000	1143.415	102.280	1263.967	117.471
119.923	25.736	30.077	0.000	0.000	1192.445	102.280	1321.170	117.471

*** DESBROCES ***

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
119.923	25.736	30.077	0.000	0.000	1192.445	102.280	1321.170	117.471
120.000	25.756	30.104	0.000	0.000	1194.427	102.280	1323.487	117.471
122.000	26.360	30.920	0.000	0.000	1246.544	102.280	1384.511	117.471
124.000	27.128	31.952	0.000	0.000	1300.032	102.280	1447.384	117.471
126.000	27.876	32.940	0.000	0.000	1355.036	102.280	1512.276	117.471
128.000	28.562	33.851	0.000	0.000	1411.474	102.280	1579.067	117.471
130.000	29.030	34.483	0.000	0.000	1469.066	102.280	1647.401	117.471
132.000	29.302	34.856	0.000	0.000	1527.398	102.280	1716.741	117.471
134.000	29.536	35.142	0.000	0.000	1586.236	102.280	1786.739	117.471
136.000	29.905	35.631	0.000	0.000	1645.676	102.280	1857.513	117.471
138.000	30.232	36.062	0.000	0.000	1705.813	102.280	1929.206	117.471
140.000	30.460	36.360	0.000	0.000	1766.506	102.280	2001.628	117.471
142.000	30.529	36.440	0.000	0.000	1827.494	102.280	2074.428	117.471
144.000	30.590	36.513	0.000	0.000	1888.613	102.280	2147.381	117.471
146.000	30.649	36.582	0.000	0.000	1949.853	102.280	2220.475	117.471
148.000	30.705	36.646	0.000	0.000	2011.207	102.280	2293.703	117.471
150.000	30.760	36.710	0.000	0.000	2072.672	102.280	2367.058	117.471
152.000	30.815	36.774	0.000	0.000	2134.246	102.280	2440.542	117.471
154.000	30.867	36.837	0.000	0.000	2195.928	102.280	2514.154	117.472
156.000	30.918	36.897	0.000	0.000	2257.714	102.280	2587.888	117.472
158.000	30.962	36.948	0.000	0.000	2319.594	102.280	2661.732	117.472
160.000	31.007	36.999	0.000	0.000	2381.563	102.280	2735.680	117.472
162.000	31.051	37.051	0.000	0.000	2443.621	102.280	2809.729	117.472
164.000	31.342	37.280	0.000	0.000	2506.015	102.280	2884.060	117.472
166.000	31.694	37.552	0.000	0.000	2569.051	102.280	2958.891	117.472
168.000	32.039	37.813	0.000	0.000	2632.785	102.280	3034.255	117.472
170.000	32.384	38.075	0.000	0.000	2697.208	102.280	3110.143	117.472
172.000	32.484	38.161	0.000	0.000	2762.075	102.280	3186.379	117.472
174.000	32.517	38.202	0.000	0.000	2827.076	102.280	3262.742	117.472
176.000	32.550	38.241	0.000	0.000	2892.144	102.280	3339.185	117.472
178.000	32.577	38.272	0.000	0.000	2957.271	102.280	3415.699	117.472
180.000	32.603	38.302	0.000	0.000	3022.451	102.280	3492.273	117.472
182.000	32.628	38.330	0.000	0.000	3087.682	102.280	3568.905	117.472
184.000	32.653	38.360	0.000	0.000	3152.963	102.280	3645.595	117.472
186.000	32.677	38.389	0.000	0.000	3218.293	102.280	3722.343	117.472
188.000	32.698	38.414	0.000	0.000	3283.669	102.280	3799.145	117.472
190.000	32.717	38.435	0.000	0.000	3349.084	102.280	3875.994	117.472

*** DESBROCES ***

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
191.470	32.730	38.450	0.000	0.000	3397.187	102.280	3932.504	117.472
192.000	32.477	38.093	0.000	0.000	3414.467	102.280	3952.788	117.472
194.000	31.171	36.298	0.000	0.000	3478.115	102.280	4027.179	117.472
196.000	29.395	33.916	0.000	0.000	3538.681	102.280	4097.394	117.472
198.000	27.273	31.123	0.000	0.000	3595.349	102.280	4162.433	117.472
200.000	18.051	20.196	0.000	0.000	3640.674	102.280	4213.752	117.472
202.000	16.014	17.649	0.000	0.000	3674.739	102.280	4251.598	117.472
204.000	14.636	15.973	0.000	0.000	3705.388	102.280	4285.219	117.472
206.000	14.633	16.011	0.000	0.000	3734.657	102.280	4317.203	117.472
208.000	13.183	14.310	0.000	0.000	3762.473	102.280	4347.523	117.472
210.000	10.328	11.047	0.000	0.000	3785.984	102.280	4372.880	117.472
212.000	6.687	7.052	4.042	4.262	3802.999	106.323	4390.979	121.735
214.000	0.747	0.777	7.695	7.959	3810.434	118.060	4398.807	133.956
216.000	0.000	0.000	9.251	9.374	3811.181	135.005	4399.585	151.290
218.000	0.000	0.000	10.576	10.625	3811.181	154.832	4399.585	171.289
220.000	0.000	0.000	12.911	13.155	3811.181	178.320	4399.585	195.068
222.000	0.000	0.000	17.216	17.355	3811.181	208.447	4399.585	225.578
224.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
226.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
226.094	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
228.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
230.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
230.159	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
232.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
234.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
236.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
238.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
240.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
242.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
244.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
246.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
248.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
250.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
252.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
254.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
256.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
258.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933

PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

* * * DESBROCES * * *

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
260.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
262.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
264.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
266.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
268.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
270.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
272.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
274.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
276.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
278.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
280.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
282.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
284.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
286.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
288.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
290.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
292.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
294.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
295.298	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
296.000	0.000	0.000	0.000	0.000	3811.181	225.664	4399.585	242.933
296.649	0.000	0.000	11.471	11.474	3811.181	229.386	4399.585	246.657
298.000	0.000	0.000	7.064	7.068	3811.181	241.906	4399.585	259.182
300.000	8.308	8.313	0.000	0.000	3819.488	248.970	4407.898	266.249
300.294	8.030	8.033	0.000	0.000	3821.890	248.970	4410.301	266.249
300.294	8.030	8.033	0.000	0.000	3821.890	248.970	4410.301	266.249
302.000	7.658	7.658	0.000	0.000	3835.273	248.970	4423.686	266.249
304.000	7.837	7.837	0.000	0.000	3850.768	248.970	4439.181	266.249
306.000	7.871	7.880	0.000	0.000	3866.475	248.970	4454.897	266.249
308.000	7.931	7.944	0.000	0.000	3882.277	248.970	4470.721	266.249
310.000	7.578	7.584	0.000	0.000	3897.786	248.970	4486.249	266.249
312.000	7.696	7.703	0.000	0.000	3913.059	248.970	4501.536	266.249
314.000	7.798	7.808	0.000	0.000	3928.553	248.970	4517.048	266.249
316.000	7.853	7.870	0.000	0.000	3944.204	248.970	4532.725	266.249
318.000	6.566	6.581	0.000	0.000	3958.622	248.970	4547.176	266.249
320.000	6.526	6.540	0.000	0.000	3971.713	248.970	4560.297	266.249
322.000	7.734	7.753	0.000	0.000	3985.973	248.970	4574.590	266.249
324.000	7.797	7.827	0.000	0.000	4001.504	248.970	4590.170	266.249

PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

* * * DESBROCES * * *

PK inicial : 0.000
PK final : 386.783

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
326.000	6.837	6.877	0.000	0.000	4016.138	248.970	4604.874	266.249
328.000	7.111	7.174	0.000	0.000	4030.086	248.970	4618.925	266.249
330.000	7.214	7.283	0.000	0.000	4044.411	248.970	4633.381	266.249
332.000	7.206	7.274	0.000	0.000	4058.832	248.970	4647.938	266.249
334.000	7.399	7.488	0.000	0.000	4073.437	248.970	4662.700	266.249
336.000	5.758	5.823	1.710	1.728	4086.594	250.680	4676.010	267.977
338.000	3.614	3.707	4.034	4.055	4095.966	256.425	4685.540	273.760
340.000	2.654	2.668	3.356	3.374	4102.235	263.815	4691.916	281.189
342.000	4.685	4.732	2.792	2.819	4109.574	269.963	4699.316	287.381
344.000	4.289	4.378	3.561	3.596	4118.547	276.315	4708.427	293.796
344.808	4.319	4.421	3.825	3.880	4122.025	279.299	4711.981	296.816
346.000	3.967	4.070	4.472	4.567	4126.964	284.244	4717.042	301.850
348.000	3.502	3.628	4.673	4.737	4134.432	293.389	4724.740	311.155
350.000	3.879	4.006	3.908	3.932	4141.814	301.970	4732.374	319.824
352.000	5.443	5.512	2.403	2.455	4151.136	308.281	4741.893	326.212
354.000	4.320	4.356	3.052	3.077	4160.899	313.736	4751.760	331.744
356.000	7.090	7.140	0.000	0.000	4172.308	316.789	4763.256	334.821
358.000	5.587	5.669	1.994	2.011	4184.985	318.783	4776.066	336.833
360.000	7.299	7.392	0.000	0.000	4197.870	320.776	4789.128	338.844
362.000	7.209	7.335	0.000	0.000	4212.378	320.776	4803.855	338.844
364.000	8.750	8.914	0.000	0.000	4228.337	320.776	4820.103	338.844
365.599	8.868	9.025	0.000	0.000	4242.422	320.776	4834.446	338.844
366.000	5.573	5.811	2.271	2.278	4245.318	321.232	4837.420	339.301
366.812	7.512	7.742	0.000	0.000	4250.630	322.154	4842.923	340.226
368.000	8.511	8.736	0.000	0.000	4260.148	322.154	4852.711	340.226
370.000	8.745	8.937	0.000	0.000	4277.404	322.154	4870.384	340.226
372.000	6.600	6.743	0.000	0.000	4292.748	322.154	4886.063	340.226
374.000	8.266	8.430	0.000	0.000	4307.613	322.154	4901.237	340.226
376.000	6.416	6.572	0.000	0.000	4322.295	322.154	4916.239	340.226
378.000	7.736	7.845	0.000	0.000	4336.446	322.154	4930.656	340.226
380.000	6.158	6.308	0.000	0.000	4350.340	322.154	4944.809	340.226
382.000	7.191	7.291	0.000	0.000	4363.689	322.154	4958.408	340.226
384.000	7.289	7.289	0.000	0.000	4378.169	322.154	4972.989	340.226
385.727	6.452	6.509	0.000	0.000	4390.035	322.154	4984.904	340.226
386.000	6.492	6.538	0.000	0.000	4391.802	322.154	4986.685	340.226
386.783	4.789	4.789	0.000	0.000	4396.219	322.154	4991.119	340.226

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	11.618	11.637	0.000	0.000	0.000	0.000	0.000	0.000
2.000	11.473	11.500	0.000	0.000	23.091	0.000	23.137	0.000
4.000	10.090	10.105	0.000	0.000	44.654	0.000	44.742	0.000
6.000	10.351	10.388	0.000	0.000	65.095	0.000	65.235	0.000
8.000	10.331	10.362	0.000	0.000	85.777	0.000	85.985	0.000
10.000	10.038	10.058	0.000	0.000	106.146	0.000	106.405	0.000
10.000	9.707	9.726	0.000	0.000	106.146	0.000	106.405	0.000
11.083	9.702	9.716	0.000	0.000	116.656	0.000	116.933	0.000
12.000	9.680	9.689	0.000	0.000	125.543	0.000	125.830	0.000
14.000	8.303	8.305	0.000	0.000	143.526	0.000	143.825	0.000
16.000	8.539	8.539	0.000	0.000	160.369	0.000	160.669	0.000
18.000	8.691	8.695	0.000	0.000	177.599	0.000	177.904	0.000
20.000	8.697	8.698	0.000	0.000	194.987	0.000	195.297	0.000
22.000	8.703	8.703	0.000	0.000	212.387	0.000	212.698	0.000
24.000	8.715	8.715	0.000	0.000	229.804	0.000	230.116	0.000
26.000	4.090	4.109	4.750	4.785	242.609	4.750	242.941	4.785
28.000	8.734	12.937	5.465	5.589	255.433	14.965	259.987	15.159
30.000	10.028	13.071	5.431	5.583	274.195	25.861	285.995	26.331
32.000	0.597	0.597	8.736	8.742	284.821	40.028	299.663	40.655
34.000	0.597	0.597	8.895	8.898	286.015	57.659	300.858	58.295
36.000	0.597	0.597	9.113	9.115	287.210	75.667	302.053	76.307
38.000	0.597	0.597	9.142	9.146	288.404	93.923	303.248	94.568
40.000	0.597	0.597	9.388	9.389	289.598	112.453	304.443	113.103
42.000	0.597	0.597	9.638	9.638	290.792	131.478	305.637	132.130
44.000	0.597	0.597	9.886	9.887	291.986	151.003	306.831	151.656
46.000	0.597	0.597	10.083	10.084	293.179	170.972	308.024	171.626
48.000	0.596	0.598	10.374	10.380	294.372	191.429	309.218	192.090
50.000	0.596	0.596	10.495	10.497	295.565	212.298	310.413	212.967
50.602	0.596	0.596	10.532	10.533	295.924	218.627	310.772	219.297
52.000	0.596	0.596	10.621	10.623	296.757	233.413	311.605	234.085
54.000	0.596	0.597	10.724	10.733	297.950	254.757	312.798	255.441
56.000	0.596	0.596	10.906	10.920	299.143	276.387	313.991	277.093
58.000	0.596	0.596	11.077	11.100	300.335	298.370	315.184	299.112
60.000	0.597	0.597	11.242	11.278	301.528	320.688	316.377	321.490
62.000	0.597	0.597	11.653	11.662	302.721	343.583	317.571	344.430
64.000	0.597	0.597	11.694	11.702	303.914	366.930	318.765	367.794
66.000	0.596	0.597	12.096	12.097	305.107	390.720	319.958	391.593

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
68.000	0.596	0.596	12.178	12.179	306.300	414.995	321.151	415.868
70.000	0.597	0.606	12.235	12.292	307.494	439.408	322.354	440.339
72.000	0.597	0.603	12.368	12.411	308.688	464.012	323.563	465.041
74.000	0.597	0.601	12.553	12.580	309.882	488.933	324.766	490.032
76.000	0.597	0.599	12.584	12.617	311.076	514.069	325.966	515.229
78.000	0.597	0.598	12.803	12.827	312.270	539.456	327.163	540.673
80.000	0.597	0.598	13.031	13.042	313.464	565.289	328.359	566.543
82.000	0.598	0.604	13.267	13.331	314.659	591.587	329.561	592.916
84.000	0.598	0.619	13.963	14.019	315.854	618.817	330.783	620.267
86.000	0.598	0.642	13.978	14.040	317.049	646.758	332.044	648.326
88.000	0.598	0.623	13.993	14.084	318.245	674.729	333.308	676.450
90.000	0.598	0.614	14.008	14.102	319.441	702.730	334.545	704.635
92.000	0.598	0.675	14.169	14.197	320.637	730.907	335.835	732.933
94.000	0.599	0.752	14.394	14.463	321.834	759.471	337.262	761.593
96.000	0.599	0.690	14.507	14.645	323.031	788.372	338.704	790.701
97.108	0.599	0.653	14.569	14.710	323.695	804.480	339.448	806.964
98.000	0.599	0.637	14.625	14.758	324.229	817.500	340.023	820.107
100.000	0.599	0.620	15.583	15.684	325.426	847.708	341.280	850.550
102.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
104.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
106.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
108.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
110.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
112.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
114.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
116.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
118.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
120.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
122.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
124.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
126.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
128.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
130.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
132.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
134.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
136.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
138.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235

PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
140.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
142.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
144.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
146.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
148.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
150.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
152.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
154.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
156.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
158.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
160.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
162.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
164.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
166.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
168.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
170.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
172.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
174.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
176.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
178.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
180.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
182.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
184.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
186.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
188.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
190.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
192.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
194.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
196.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
198.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
200.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
202.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
204.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
206.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
208.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
210.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
212.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235

PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
214.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
216.000	0.000	0.000	0.000	0.000	326.025	863.292	341.899	866.235
218.000	0.600	0.600	21.807	21.864	326.625	885.098	342.500	888.099
220.000	0.600	0.601	21.605	21.658	327.825	928.510	343.701	931.621
222.000	0.600	0.601	21.428	21.484	329.025	971.544	344.903	974.763
224.000	0.600	0.601	21.284	21.344	330.224	1014.256	346.106	1017.591
226.000	0.600	0.601	21.145	21.211	331.423	1056.685	347.308	1060.146
228.000	0.599	0.601	21.076	21.142	332.622	1098.907	348.511	1102.499
230.000	0.599	0.601	20.971	21.037	333.821	1140.953	349.713	1144.679
232.000	0.599	0.600	20.845	20.912	335.020	1182.770	350.914	1186.628
234.000	0.599	0.601	20.736	20.794	336.219	1224.351	352.115	1228.334
236.000	0.599	0.601	20.704	20.765	337.417	1265.790	353.317	1269.893
238.000	0.599	0.600	20.619	20.684	338.616	1307.113	354.518	1311.342
240.000	0.599	0.600	20.459	20.529	339.814	1348.191	355.719	1352.554
242.000	0.599	0.599	20.168	20.244	341.013	1388.818	356.918	1393.327
244.000	0.599	0.599	19.936	20.034	342.211	1428.922	358.116	1433.605
246.000	0.599	0.599	19.723	19.844	343.408	1468.581	359.314	1473.483
248.000	0.599	0.601	19.551	19.688	344.606	1507.855	360.514	1513.015
250.000	0.599	0.605	19.456	19.611	345.803	1546.862	361.719	1552.315
252.000	0.599	0.609	19.208	19.336	347.001	1585.527	362.933	1591.262
254.000	0.598	0.609	18.909	19.082	348.197	1623.643	364.150	1629.680
256.000	0.598	0.599	18.611	18.663	349.394	1661.163	365.358	1667.424
258.000	0.598	0.598	18.326	18.371	350.591	1698.100	366.555	1704.457
260.000	0.598	0.600	18.164	18.202	351.788	1734.591	367.752	1741.029
262.000	0.598	0.599	17.968	18.006	352.984	1770.724	368.951	1777.237
264.000	0.598	0.599	17.735	17.771	354.181	1806.428	370.150	1813.014
266.000	0.598	0.599	17.464	17.497	355.377	1841.627	371.349	1848.282
268.000	0.598	0.599	17.266	17.299	356.572	1876.357	372.547	1883.078
270.000	0.598	0.598	17.056	17.089	357.768	1910.679	373.744	1917.466
271.256	0.598	0.598	16.923	16.960	358.519	1932.018	374.495	1938.849
272.000	0.598	0.598	16.824	16.862	358.964	1944.572	374.940	1951.430
274.000	0.598	0.598	16.563	16.605	360.159	1977.960	376.135	1984.898
276.000	0.597	0.598	16.325	16.372	361.354	2010.847	377.330	2017.876
278.000	0.598	0.598	16.083	16.093	362.549	2043.255	378.525	2050.342
280.000	0.598	0.598	15.832	15.844	363.745	2075.170	379.721	2082.279
282.000	0.598	0.598	15.595	15.608	364.940	2106.598	380.916	2113.731
284.000	0.597	0.597	15.364	15.378	366.135	2137.557	382.111	2144.717

PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
286.000	0.598	0.598	15.435	15.436	367.330	2168.356	383.306	2175.531
288.000	0.598	0.598	15.092	15.093	368.526	2198.884	384.502	2206.059
290.000	0.597	0.597	14.824	14.826	369.721	2228.800	385.697	2235.978
292.000	0.597	0.597	14.761	14.765	370.915	2258.386	386.892	2265.569
294.000	0.597	0.597	14.737	14.740	372.110	2287.884	388.086	2295.074
296.000	0.597	0.597	14.461	14.463	373.305	2317.082	389.281	2324.277
298.000	0.597	0.597	14.208	14.212	374.499	2345.751	390.475	2352.952
300.000	0.597	0.597	13.998	14.005	375.693	2373.958	391.670	2381.169
302.000	0.597	0.597	13.800	13.812	376.886	2401.756	392.864	2408.985
304.000	0.597	0.597	13.501	13.513	378.079	2429.057	394.058	2436.311
306.000	0.597	0.597	13.111	13.123	379.273	2455.670	395.253	2462.947
308.000	0.596	0.597	12.973	12.986	380.465	2481.754	396.448	2489.056
310.000	0.596	0.598	12.734	12.747	381.658	2507.461	397.643	2514.789
312.000	0.596	0.600	12.526	12.535	382.851	2532.721	398.841	2540.071
314.000	0.596	0.597	12.306	12.313	384.043	2557.553	400.037	2564.918
316.000	0.596	0.597	12.081	12.098	385.236	2581.939	401.231	2589.329
318.000	0.596	0.598	12.391	12.425	386.428	2606.410	402.426	2613.853
320.000	0.596	0.599	12.100	12.135	387.621	2630.900	403.622	2638.413
322.000	0.596	0.602	11.781	11.809	388.813	2654.781	404.823	2662.357
324.000	0.596	0.604	11.472	11.479	390.005	2678.034	406.029	2685.645
326.000	0.596	0.600	11.173	11.173	391.197	2700.680	407.234	2708.298
328.000	0.596	0.596	10.884	10.884	392.390	2722.738	408.430	2730.356
330.000	0.596	0.596	10.605	10.605	393.582	2744.228	409.623	2751.846
330.000	0.000	0.000	13.990	14.009	393.582	2744.228	409.623	2751.846
332.000	0.000	0.000	13.643	13.652	393.582	2771.861	409.623	2779.507
334.000	0.000	0.000	13.286	13.289	393.582	2798.790	409.623	2806.447
336.000	0.000	0.000	12.855	12.855	393.582	2824.931	409.623	2832.591
336.570	0.000	0.000	12.717	12.717	393.582	2832.219	409.623	2839.879
338.000	0.000	0.000	12.377	12.377	393.582	2850.161	409.623	2857.821
340.000	0.000	0.000	11.920	11.920	393.582	2874.458	409.623	2882.118
342.000	0.000	0.000	11.482	11.482	393.582	2897.860	409.623	2905.520
344.000	0.000	0.000	11.065	11.065	393.582	2920.407	409.623	2928.067
346.000	0.000	0.000	10.667	10.667	393.582	2942.138	409.623	2949.799
348.000	0.000	0.000	10.542	10.542	393.582	2963.347	409.623	2971.007
350.000	0.000	0.000	10.295	10.295	393.582	2984.184	409.623	2991.844
352.000	0.000	0.000	10.071	10.071	393.582	3004.550	409.623	3012.210
354.000	0.000	0.000	9.867	9.867	393.582	3024.487	409.623	3032.147

PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

*** DESBROCES ***

PK inicial : 0.000
PK final : 381.778

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
356.000	0.668	0.668	9.015	9.015	394.250	3043.369	410.291	3051.029
356.272	1.005	1.006	8.654	8.654	394.478	3045.772	410.519	3053.432
358.000	1.603	1.603	7.984	7.984	396.732	3060.147	412.772	3067.808
360.000	3.911	3.911	5.533	5.533	402.245	3073.664	418.286	3081.324
362.000	0.000	0.000	9.619	9.620	406.156	3088.815	422.196	3096.477
364.000	0.000	0.000	9.511	9.512	406.156	3107.945	422.196	3115.609
366.000	0.000	0.000	9.475	9.477	406.156	3126.931	422.196	3134.598
368.000	8.042	8.044	1.313	1.314	414.197	3137.719	430.241	3145.388
370.000	9.266	9.270	0.000	0.000	431.506	3139.032	447.556	3146.702
372.000	9.179	9.184	0.000	0.000	449.951	3139.032	466.010	3146.702
374.000	8.825	8.833	0.313	0.313	467.955	3139.345	484.028	3147.015
375.958	9.007	9.016	0.000	0.000	485.413	3139.652	501.501	3147.322
376.000	9.004	9.013	0.000	0.000	485.791	3139.652	501.880	3147.322
378.000	8.478	8.488	0.000	0.000	503.273	3139.652	519.382	3147.322
380.000	9.073	9.082	0.000	0.000	520.825	3139.652	536.952	3147.322
381.776	9.034	9.049	0.000	0.000	536.905	3139.652	553.053	3147.322
381.778	9.034	9.049	0.000	0.000	536.923	3139.652	553.071	3147.322

1.1.1.2.4. CAMINOS PARALELOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	4.931	5.072	1.394	1.523	0.000	0.000	0.000	0.000
5.000	0.000	0.000	9.746	10.338	12.329	27.850	12.679	29.652
10.000	0.000	0.000	12.166	12.635	12.329	82.630	12.679	87.085
15.000	0.000	0.000	13.258	13.632	12.329	146.190	12.679	152.751
20.000	0.000	0.000	13.928	14.232	12.329	214.155	12.679	222.410
23.558	0.000	0.000	14.021	14.309	12.329	263.877	12.679	273.184
25.000	0.000	0.000	13.950	14.244	12.329	284.044	12.679	293.771
29.947	0.000	0.000	13.604	13.927	12.329	352.198	12.679	363.452
30.000	0.000	0.000	13.601	13.925	12.329	352.919	12.679	364.190
35.000	0.000	0.000	13.640	14.098	12.329	421.024	12.679	434.250
40.000	0.000	0.000	12.275	12.735	12.329	485.813	12.679	501.332
45.000	0.000	0.000	10.815	11.163	12.329	543.540	12.679	561.077
50.000	0.000	0.000	10.494	10.951	12.329	596.812	12.679	616.364
55.000	3.008	3.132	8.971	9.427	19.849	645.472	20.509	667.309
60.000	5.355	5.602	6.452	6.946	40.757	684.028	42.343	708.241
61.157	5.933	6.212	5.755	6.205	47.287	691.090	49.177	715.848
65.000	8.308	8.681	3.252	3.558	74.651	708.396	77.793	734.608
70.000	7.705	8.130	4.273	4.529	114.683	727.208	119.820	754.827
75.000	7.407	7.756	4.647	4.968	152.463	749.507	159.534	778.571
80.000	7.192	7.632	5.494	5.859	188.962	774.859	198.002	805.639
85.000	8.707	9.386	5.041	5.462	228.711	801.198	240.547	833.942
87.082	9.049	9.805	4.976	5.432	247.195	811.626	260.525	845.283
90.000	8.891	9.655	5.205	5.696	273.369	826.480	288.919	861.519
95.000	8.344	9.074	4.652	5.027	316.456	851.124	335.743	888.327
100.000	8.042	8.565	3.999	4.265	357.420	872.753	379.840	911.556
105.000	6.360	6.722	4.653	4.848	393.426	894.384	418.059	934.338
110.000	4.044	4.327	9.492	10.096	419.438	929.747	445.683	971.699
115.000	2.424	2.692	11.551	12.156	435.609	982.356	463.230	1027.331
120.000	2.371	2.568	11.538	12.198	447.598	1040.079	476.378	1088.217
125.000	3.015	3.285	10.521	11.215	461.063	1095.227	491.009	1146.749
125.090	3.041	3.313	10.510	11.206	461.336	1096.174	491.306	1147.758
130.000	5.257	5.667	8.710	9.263	481.707	1143.359	513.351	1198.009
135.000	8.478	8.904	2.773	2.930	516.043	1172.066	549.779	1228.493
139.424	11.190	11.586	0.000	0.000	559.549	1178.199	595.103	1234.975
139.428	11.191	11.587	0.000	0.000	559.594	1178.199	595.149	1234.975
139.436	11.193	11.589	0.000	0.000	559.683	1178.199	595.242	1234.975
140.000	11.343	11.748	0.000	0.000	566.039	1178.199	601.823	1234.975

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
145.000	11.916	12.405	0.000	0.000	624.187	1178.199	662.206	1234.975
150.000	11.587	12.100	0.000	0.000	682.944	1178.199	723.471	1234.975
155.000	11.967	12.577	0.000	0.000	741.830	1178.199	785.164	1234.975
160.000	13.045	13.694	0.000	0.000	804.361	1178.199	850.842	1234.975
165.000	14.236	14.769	0.000	0.000	872.565	1178.199	922.000	1234.975
170.000	14.910	15.477	0.000	0.000	945.431	1178.199	997.615	1234.975
175.000	14.298	15.097	0.000	0.000	1018.449	1178.199	1074.049	1234.975
180.000	12.089	13.127	0.292	0.314	1084.416	1178.929	1144.608	1235.760
182.564	9.977	11.048	4.108	4.369	1112.705	1184.571	1175.600	1241.764
185.000	7.812	8.811	7.567	8.066	1134.373	1198.791	1199.789	1256.910
190.000	5.770	6.619	11.289	12.157	1168.327	1245.932	1238.364	1307.468
195.000	5.662	6.424	12.047	13.063	1196.906	1304.274	1270.971	1370.520
200.000	6.205	6.937	10.373	11.202	1226.575	1360.324	1304.373	1431.184
205.000	7.605	8.240	6.512	6.988	1261.098	1402.536	1342.315	1476.660
210.000	11.776	12.400	0.000	0.000	1309.549	1418.815	1393.916	1494.131
210.000	10.409	10.960	0.000	0.000	1309.549	1418.815	1393.916	1494.131
215.000	11.637	11.961	0.000	0.000	1364.664	1418.815	1451.219	1494.131
215.562	11.792	12.097	0.000	0.000	1371.248	1418.815	1457.980	1494.131
220.000	13.708	14.044	0.000	0.000	1427.830	1418.815	1515.986	1494.131
224.000	14.928	15.215	0.000	0.000	1485.102	1418.815	1574.503	1494.131
224.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
225.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
230.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
235.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
240.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
245.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
250.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
255.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
260.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
265.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
270.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
275.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
280.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
285.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
290.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
295.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
300.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131

PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

* * * D E S B R O C E S * * *

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
305.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
310.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
315.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
320.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
325.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
330.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
335.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
340.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
345.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
350.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
355.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
360.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
365.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
370.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
375.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
380.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
385.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
390.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
395.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
400.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
405.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
410.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
415.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
420.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
425.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
430.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
435.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
440.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
442.295	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
445.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
450.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
455.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
460.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
465.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
470.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
475.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
480.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131

PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

* * * D E S B R O C E S * * *

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
485.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
490.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
495.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
500.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
505.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
510.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
515.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
520.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
523.556	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
525.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
528.704	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
530.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
535.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
535.659	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
540.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
545.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
550.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
555.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
560.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
565.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
570.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
575.000	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
575.427	0.000	0.000	0.000	0.000	1485.102	1418.815	1574.503	1494.131
575.427	14.194	14.480	0.000	0.000	1485.102	1418.815	1574.503	1494.131
580.000	12.067	12.193	0.000	0.000	1545.148	1418.815	1635.491	1494.131
585.000	10.581	10.724	0.000	0.000	1601.767	1418.815	1692.785	1494.131
587.500	9.630	9.791	0.000	0.000	1627.030	1418.815	1718.429	1494.131
590.000	8.846	9.070	0.000	0.000	1650.125	1418.815	1742.005	1494.131
591.357	7.610	7.890	0.901	0.950	1661.291	1419.427	1753.512	1494.776
591.357	7.610	7.890	1.890	1.946	1661.291	1419.427	1753.512	1494.776
595.000	5.703	5.821	4.503	4.678	1685.541	1431.071	1778.486	1506.841
600.000	3.051	3.132	8.387	8.719	1707.425	1463.295	1800.869	1540.334
605.000	1.689	1.730	9.798	10.145	1719.276	1508.757	1813.026	1587.495
610.000	1.392	1.418	10.378	10.780	1726.979	1559.198	1820.898	1639.809
615.000	0.000	0.000	12.053	12.637	1730.460	1615.276	1824.443	1698.350
620.000	0.000	0.000	12.065	12.775	1730.460	1675.570	1824.443	1761.879
625.000	0.000	0.000	8.046	8.117	1730.460	1725.848	1824.443	1814.109

PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

*** DESBROCES ***

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
630.000	1.769	1.778	6.740	6.785	1734.883	1762.813	1828.887	1851.365
632.636	2.519	2.527	5.718	5.748	1740.534	1779.232	1834.561	1867.885
635.000	4.478	4.513	4.067	4.105	1748.804	1790.798	1842.883	1879.531
640.000	6.736	6.886	2.679	2.740	1776.839	1807.663	1871.382	1896.642
645.000	9.224	9.594	0.905	0.937	1816.739	1816.622	1912.584	1905.835
650.000	9.830	10.532	1.662	1.727	1864.373	1823.039	1962.899	1912.497
655.000	7.875	8.542	3.637	3.719	1908.637	1836.286	2010.584	1926.113
660.000	7.694	8.067	2.711	2.776	1947.560	1852.156	2052.108	1942.351
665.000	7.915	8.143	1.625	1.662	1986.582	1862.995	2092.635	1953.445
670.000	10.908	11.218	0.000	0.000	2033.640	1867.056	2141.037	1957.599
675.000	13.673	14.525	0.000	0.000	2095.093	1867.056	2205.395	1957.599
678.686	14.827	16.004	0.000	0.000	2147.618	1867.056	2261.660	1957.599
680.000	14.898	16.109	0.000	0.000	2167.147	1867.056	2282.758	1957.599
685.000	15.678	17.024	0.000	0.000	2243.586	1867.056	2365.591	1957.599
690.000	17.063	18.487	0.000	0.000	2325.439	1867.056	2454.369	1957.599
695.000	17.568	18.970	0.000	0.000	2412.018	1867.056	2548.012	1957.599
700.000	18.401	19.776	0.000	0.000	2501.941	1867.056	2644.877	1957.599
704.709	18.644	20.037	0.000	0.000	2589.165	1867.056	2738.618	1957.599
705.000	18.648	20.042	0.000	0.000	2594.592	1867.056	2744.449	1957.599
710.000	18.708	20.132	0.000	0.000	2687.982	1867.056	2844.884	1957.599
715.000	18.765	20.369	0.000	0.000	2781.665	1867.056	2946.137	1957.599
720.000	18.607	20.454	0.000	0.000	2875.094	1867.056	3048.195	1957.599
722.672	18.940	21.012	0.000	0.000	2925.256	1867.056	3103.594	1957.599
725.000	19.044	21.108	0.000	0.000	2969.469	1867.056	3152.620	1957.599
730.000	18.974	20.824	0.000	0.000	3064.515	1867.056	3257.450	1957.599
735.000	18.809	20.499	0.000	0.000	3158.974	1867.056	3360.758	1957.599
739.059	18.615	20.227	0.000	0.000	3234.927	1867.056	3443.411	1957.599
740.000	18.622	20.241	0.000	0.000	3252.447	1867.056	3462.452	1957.599
742.000	18.659	20.286	0.000	0.000	3289.728	1867.056	3502.979	1957.599
745.000	19.010	20.777	0.000	0.000	3346.230	1867.056	3564.572	1957.599
750.000	18.775	20.590	0.000	0.000	3440.691	1867.056	3667.989	1957.599
755.000	17.608	19.325	0.000	0.000	3531.649	1867.056	3767.776	1957.599
757.000	16.977	18.671	0.000	0.000	3566.234	1867.056	3805.772	1957.599
760.000	14.598	15.810	0.000	0.000	3613.597	1867.056	3857.493	1957.599
765.000	10.015	10.851	2.846	3.068	3675.129	1874.172	3924.147	1965.269
770.000	3.197	3.477	12.647	13.610	3708.160	1912.906	3959.967	2006.963
771.278	0.000	0.000	14.381	15.401	3710.203	1930.176	3962.189	2025.501

PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

*** DESBROCES ***

PK inicial : 0.000
PK final : 804.095

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
775.000	0.000	0.000	21.220	23.037	3710.203	1996.430	3962.189	2097.032
780.000	0.000	0.000	29.014	31.970	3710.203	2122.015	3962.189	2234.550
780.310	0.000	0.000	29.087	32.177	3710.203	2131.021	3962.189	2244.493
785.000	0.000	0.000	29.539	32.611	3710.203	2268.499	3962.189	2396.423
786.385	0.000	0.000	28.816	31.765	3710.203	2308.910	3962.189	2441.004
790.000	0.000	0.000	29.796	32.933	3710.203	2414.851	3962.189	2557.947
790.388	0.000	0.000	29.545	32.559	3710.203	2426.363	3962.189	2570.653
790.388	0.000	0.000	26.523	29.411	3710.203	2426.363	3962.189	2570.653
795.000	0.000	0.000	23.676	26.033	3710.203	2542.121	3962.189	2698.507
799.243	0.000	0.000	16.831	17.968	3710.203	2628.056	3962.189	2791.855
799.243	0.000	0.000	5.000	5.350	3710.203	2628.056	3962.189	2791.855
800.000	0.000	0.000	5.000	5.362	3710.203	2631.841	3962.189	2795.910
802.000	0.000	0.000	2.524	2.689	3710.203	2639.365	3962.189	2803.961
803.043	0.000	0.000	1.143	1.219	3710.203	2641.277	3962.189	2805.999
804.095	0.000	0.000	0.541	0.580	3710.203	2642.163	3962.189	2806.945

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

* * * DESBROCES * * *

PK inicial : 0.000
PK final : 281.191

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	7.882	7.908	0.638	0.639	0.000	0.000	0.000	0.000
0.144	7.863	7.889	0.585	0.586	1.134	0.088	1.137	0.088
0.440	7.358	7.362	0.546	0.547	3.386	0.255	3.395	0.256
0.586	7.343	7.346	0.453	0.453	4.460	0.328	4.468	0.329
0.721	7.358	7.361	0.358	0.359	5.452	0.383	5.461	0.384
1.069	7.351	7.352	0.169	0.169	8.011	0.475	8.021	0.475
1.565	6.360	6.362	0.000	0.000	11.411	0.517	11.422	0.517
1.906	6.308	6.309	0.000	0.000	13.571	0.517	13.582	0.517
2.029	6.287	6.288	0.000	0.000	14.346	0.517	14.357	0.517
2.069	6.280	6.281	0.000	0.000	14.597	0.517	14.608	0.517
3.060	6.169	6.169	0.000	0.000	20.765	0.517	20.777	0.517
3.374	6.142	6.143	0.000	0.000	22.698	0.517	22.710	0.517
4.723	6.073	6.075	0.000	0.000	30.937	0.517	30.951	0.517
5.000	6.067	6.069	0.000	0.000	32.619	0.517	32.633	0.517
6.076	5.973	5.988	0.000	0.000	39.096	0.517	39.120	0.517
7.435	5.691	5.731	0.175	0.176	47.022	0.635	47.083	0.637
8.800	2.331	2.369	3.499	3.520	52.497	3.143	52.611	3.159
10.000	3.458	4.580	5.160	5.194	55.970	8.338	56.781	8.387
10.169	3.465	4.587	5.143	5.178	56.555	9.209	57.555	9.264
11.543	3.795	4.863	4.872	4.959	61.543	16.089	64.047	16.228
14.153	5.028	5.931	3.477	3.798	73.057	26.985	78.133	27.655
15.000	5.716	6.476	2.922	3.285	77.607	29.695	83.387	30.655
15.540	0.000	0.000	6.853	6.900	79.151	32.334	85.135	33.405
20.000	8.258	8.290	0.000	0.000	97.566	47.615	103.621	48.791
25.000	8.420	8.420	0.000	0.000	139.262	47.615	145.395	48.791
30.000	8.908	8.911	0.000	0.000	182.581	47.615	188.723	48.791
35.000	9.465	9.489	0.000	0.000	228.514	47.615	234.722	48.791
37.438	9.515	9.538	0.000	0.000	251.651	47.615	257.916	48.791
40.000	9.502	9.526	0.000	0.000	276.011	47.615	282.338	48.791
45.000	9.844	9.909	0.000	0.000	324.374	47.615	330.924	48.791
50.000	10.167	10.194	0.000	0.000	374.400	47.615	381.180	48.791
55.000	10.112	10.133	0.000	0.000	425.096	47.615	431.996	48.791
60.000	9.847	9.870	0.000	0.000	474.993	47.615	482.003	48.791
65.000	9.418	9.445	0.000	0.000	523.155	47.615	530.290	48.791
70.000	8.703	8.733	0.000	0.000	568.458	47.615	575.735	48.791
75.000	8.085	8.116	0.000	0.000	610.429	47.615	617.857	48.791
80.000	7.696	7.725	0.000	0.000	649.882	47.615	657.459	48.791

PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

*** DESBROCES ***

PK inicial : 0.000
PK final : 281.191

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
85.000	7.466	7.501	0.000	0.000	687.785	47.615	695.524	48.791
90.000	6.618	6.651	0.000	0.000	722.994	47.615	730.904	48.791
95.000	6.791	6.834	0.000	0.000	756.515	47.615	764.617	48.791
100.000	6.419	6.471	0.555	0.559	789.539	49.001	797.879	50.188
105.000	4.569	4.626	2.828	2.861	817.008	57.459	825.622	58.736
106.432	3.854	3.910	3.610	3.648	823.039	62.069	831.734	63.396
110.000	1.447	1.474	5.471	5.569	832.495	78.269	841.340	79.839
115.000	0.000	0.000	7.486	7.548	836.113	110.661	845.025	112.631
120.000	0.000	0.000	7.244	7.271	836.113	147.485	845.025	149.677
125.000	0.000	0.000	6.915	6.940	836.113	182.880	845.025	185.205
130.000	0.000	0.000	7.014	7.049	836.113	217.702	845.025	220.179
135.000	0.000	0.000	7.077	7.118	836.113	252.929	845.025	255.599
140.000	0.000	0.000	6.797	6.831	836.113	287.614	845.025	290.472
145.000	1.069	1.074	5.312	5.334	838.786	317.886	847.709	320.886
146.931	2.094	2.101	3.992	4.005	841.840	326.869	850.774	329.902
150.000	2.494	2.504	3.493	3.505	848.881	338.355	857.840	341.426
155.000	2.783	2.792	3.088	3.095	862.074	354.808	871.080	357.928
160.000	0.306	0.307	6.055	6.070	869.797	377.664	878.827	380.842
165.000	0.605	0.605	5.430	5.434	872.074	406.377	881.107	409.604
170.000	0.262	0.263	5.835	5.843	874.241	434.541	883.277	437.797
175.000	5.217	5.219	0.000	0.000	887.939	449.129	896.982	452.406
180.000	5.514	5.515	0.000	0.000	914.767	449.129	923.816	452.406
185.000	1.995	2.000	3.920	3.927	933.540	458.931	942.603	462.222
190.000	1.865	1.870	4.218	4.228	943.190	479.278	952.278	482.609
195.000	1.675	1.680	4.497	4.511	952.041	501.068	961.153	504.458
198.405	5.541	5.549	0.000	0.000	964.327	508.724	973.460	512.139
200.000	6.570	6.595	0.000	0.000	973.986	508.724	983.144	512.139
205.000	7.774	7.824	0.000	0.000	1009.848	508.724	1019.193	512.139
210.000	8.167	8.255	0.000	0.000	1049.701	508.724	1059.393	512.139
215.000	8.335	8.470	0.000	0.000	1090.956	508.724	1101.208	512.139
220.000	8.192	8.335	0.000	0.000	1132.274	508.724	1143.221	512.139
225.000	6.946	7.011	0.000	0.000	1170.117	508.724	1181.587	512.139
230.000	5.965	5.996	0.794	0.797	1202.394	510.709	1214.104	514.132
233.177	3.101	3.113	2.764	2.774	1216.795	516.361	1228.572	519.804
235.000	2.007	2.016	4.057	4.070	1221.451	522.579	1233.247	526.043
240.000	0.000	0.000	6.669	6.685	1226.469	549.394	1238.287	552.929
245.000	0.000	0.000	6.546	6.555	1226.469	582.432	1238.287	586.028

PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

*** DESBROCES ***

PK inicial : 0.000
PK final : 281.191

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
250.000	2.268	2.269	3.680	3.683	1232.138	607.996	1243.960	611.622
255.000	5.606	5.610	0.000	0.000	1251.823	617.196	1263.660	620.829
260.000	5.294	5.299	0.000	0.000	1279.075	617.196	1290.932	620.829
265.000	6.281	6.291	0.000	0.000	1308.015	617.196	1319.907	620.829
270.000	6.347	6.359	0.000	0.000	1339.586	617.196	1351.534	620.829
275.000	6.325	6.336	0.000	0.000	1371.266	617.196	1383.273	620.829
278.044	7.211	7.222	0.000	0.000	1391.868	617.196	1403.909	620.829
280.000	6.376	6.391	0.000	0.000	1405.157	617.196	1417.222	620.829
281.191	6.438	6.455	0.000	0.000	1412.788	617.196	1424.872	620.829

1.1.1.2.5. DESVÍOS PROVISIONALES

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 777.153

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	9.049	9.762	11.552	13.933	0.000	0.000	0.000	0.000
5.000	9.154	9.877	11.265	13.694	45.508	57.043	49.099	69.066
10.000	9.059	9.773	11.206	13.459	91.041	113.221	98.225	136.949
11.274	9.121	9.828	10.738	12.972	102.622	127.199	110.711	153.786
15.000	10.024	10.773	10.197	12.360	138.288	166.202	149.089	200.981
20.000	9.968	10.711	9.389	11.213	188.268	215.168	202.799	259.915
25.000	9.097	9.771	8.691	10.414	235.931	260.369	254.007	313.984
30.000	8.697	9.371	8.289	10.077	280.415	302.818	301.862	365.213
35.000	8.425	9.103	9.649	11.605	323.219	347.663	348.046	419.419
40.000	8.103	8.819	13.071	16.102	364.538	404.462	392.851	488.685
45.000	7.843	8.588	12.877	15.285	404.401	469.332	436.367	567.153
50.000	7.925	8.682	12.341	14.716	443.820	532.377	479.541	642.157
55.000	9.342	10.306	7.637	9.029	486.987	582.321	527.011	701.521
60.000	7.346	8.178	11.677	13.668	528.706	630.606	573.222	758.263
65.000	7.385	8.217	11.061	13.024	565.533	687.451	614.210	824.994
70.000	7.431	8.281	10.654	12.617	602.572	741.736	655.456	889.099
75.000	7.506	8.354	10.236	12.444	639.915	793.960	697.042	951.752
80.000	7.777	8.684	9.890	12.168	678.122	844.273	739.637	1013.281
85.000	7.913	8.774	8.532	10.640	717.348	890.327	783.282	1070.302
90.000	7.946	8.760	9.818	11.664	756.996	936.200	827.117	1126.063
95.000	8.107	8.877	9.452	11.266	797.129	984.373	871.210	1183.387
100.000	8.534	9.262	7.941	9.314	838.732	1027.855	916.558	1234.835
105.000	8.657	9.351	7.474	8.752	881.710	1066.393	963.091	1280.000
110.000	8.770	9.459	7.025	8.230	925.276	1102.640	1010.117	1322.456
115.000	8.960	9.635	6.140	7.250	969.601	1135.552	1057.855	1361.157
120.000	11.152	11.847	5.050	6.035	1019.881	1163.527	1111.560	1394.369
125.000	11.289	12.019	4.918	5.775	1075.982	1188.445	1171.224	1423.893
128.357	11.406	12.092	4.353	5.074	1114.076	1204.005	1211.693	1442.102
130.000	11.507	12.163	4.096	4.773	1132.898	1210.945	1231.618	1450.191
135.000	11.914	12.510	3.244	3.900	1191.449	1229.295	1293.302	1471.875
140.000	12.465	13.023	2.360	3.249	1252.396	1243.306	1357.134	1489.747
145.000	12.879	13.428	0.000	0.000	1315.756	1249.206	1423.260	1497.870
150.000	13.126	13.762	0.000	0.000	1380.770	1249.206	1491.233	1497.870
155.000	13.908	14.418	0.000	0.000	1448.355	1249.206	1561.682	1497.870
160.000	15.067	15.642	0.000	0.000	1520.793	1249.206	1636.832	1497.870
165.000	14.330	14.962	0.000	0.000	1594.285	1249.206	1713.341	1497.870
170.000	15.662	16.297	0.000	0.000	1669.264	1249.206	1791.488	1497.870

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 777.153

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
175.000	16.228	16.755	0.000	0.000	1748.988	1249.206	1874.119	1497.870
180.000	17.038	17.724	0.000	0.000	1832.151	1249.206	1960.316	1497.870
185.000	17.377	18.302	0.000	0.000	1918.189	1249.206	2050.381	1497.870
190.000	17.509	18.500	0.000	0.000	2005.406	1249.206	2142.388	1497.870
195.000	17.220	18.003	0.000	0.000	2092.228	1249.206	2233.647	1497.870
200.000	16.911	17.431	0.000	0.000	2177.555	1249.206	2322.232	1497.870
205.000	16.357	16.789	0.000	0.000	2260.724	1249.206	2407.782	1497.870
210.000	15.941	16.389	0.000	0.000	2341.469	1249.206	2490.727	1497.870
215.000	15.845	16.361	0.000	0.000	2420.935	1249.206	2572.602	1497.870
220.000	16.426	17.258	0.000	0.000	2501.615	1249.206	2656.650	1497.870
225.000	16.589	17.562	0.000	0.000	2584.152	1249.206	2743.699	1497.870
230.000	17.095	18.171	0.000	0.000	2668.362	1249.206	2833.032	1497.870
235.000	21.542	25.497	0.000	0.000	2764.956	1249.206	2942.202	1497.870
240.000	30.462	41.166	0.000	0.000	2894.965	1249.206	3108.859	1497.870
245.000	34.346	34.440	0.000	0.000	3056.985	1249.206	3297.874	1497.870
250.000	35.423	35.598	0.000	0.000	3231.408	1249.206	3472.970	1497.870
255.000	38.347	48.610	0.000	0.000	3415.833	1249.206	3683.491	1497.870
260.000	33.631	37.532	0.000	0.000	3595.776	1249.206	3898.846	1497.870
265.000	23.655	25.241	0.000	0.000	3738.991	1249.206	4055.779	1497.870
270.000	17.773	18.147	0.000	0.000	3842.562	1249.206	4164.250	1497.870
275.000	16.670	16.822	0.000	0.000	3928.670	1249.206	4251.674	1497.870
280.000	16.801	16.964	0.000	0.000	4012.345	1249.206	4336.139	1497.870
285.000	17.498	17.688	0.000	0.000	4098.092	1249.206	4422.768	1497.870
290.000	17.640	17.795	0.000	0.000	4185.936	1249.206	4511.476	1497.870
295.000	18.013	18.196	0.000	0.000	4275.068	1249.206	4601.455	1497.870
300.000	18.836	19.121	0.000	0.000	4367.191	1249.206	4694.749	1497.870
305.000	19.903	20.501	0.000	0.000	4464.040	1249.206	4793.805	1497.870
307.470	20.512	21.274	0.000	0.000	4513.953	1249.206	4845.398	1497.870
310.000	20.985	21.897	0.000	0.000	4566.447	1249.206	4900.010	1497.870
315.000	21.038	22.088	0.000	0.000	4671.506	1249.206	5009.973	1497.870
320.000	19.904	20.844	0.000	0.000	4773.860	1249.206	5117.302	1497.870
325.000	17.271	18.100	1.334	1.335	4866.797	1252.541	5214.662	1501.207
330.000	13.637	14.441	4.090	4.102	4944.067	1266.100	5296.014	1514.799
335.000	7.814	8.586	9.142	9.292	4997.694	1299.179	5353.580	1548.285
340.000	4.757	5.188	10.819	11.001	5029.123	1349.082	5388.015	1599.018
345.000	0.000	0.000	12.310	12.501	5041.016	1406.905	5400.986	1657.773
350.000	0.000	0.000	14.674	14.908	5041.016	1474.365	5400.986	1726.297

PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

*** DESBROCES ***

PK inicial : 0.000
PK final : 777.153

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
355.000	0.000	0.000	15.943	16.053	5041.016	1550.907	5400.986	1803.701
360.000	0.000	0.000	17.788	20.173	5041.016	1635.235	5400.986	1894.268
365.000	0.000	0.000	19.250	21.043	5041.016	1727.829	5400.986	1997.309
370.000	0.000	0.000	21.587	22.190	5041.016	1829.921	5400.986	2105.393
375.000	0.000	0.000	18.589	18.589	5041.016	1930.361	5400.986	2207.341
380.000	0.000	0.000	15.882	15.882	5041.016	2016.537	5400.986	2293.518
382.470	0.000	0.000	16.026	16.026	5041.016	2055.943	5400.986	2332.924
385.000	0.000	0.000	15.112	15.129	5041.016	2095.333	5400.986	2372.335
390.000	4.679	4.818	10.847	11.012	5052.714	2160.231	5413.030	2437.686
395.000	0.000	0.000	13.046	13.054	5064.411	2219.964	5425.074	2497.851
400.000	0.000	0.000	12.226	12.232	5064.411	2283.146	5425.074	2561.067
405.000	0.000	0.000	10.888	10.890	5064.411	2340.932	5425.074	2618.874
410.000	2.850	2.851	9.470	9.474	5071.536	2391.828	5432.202	2669.785
415.000	15.109	15.115	0.000	0.000	5116.433	2415.504	5477.117	2693.471
420.000	15.395	15.406	0.000	0.000	5192.692	2415.504	5553.421	2693.471
425.000	16.652	16.697	0.000	0.000	5272.809	2415.504	5633.678	2693.471
430.000	16.339	16.362	0.000	0.000	5355.287	2415.504	5716.325	2693.471
435.000	16.745	16.754	0.000	0.000	5437.998	2415.504	5799.115	2693.471
440.000	18.104	18.130	0.000	0.000	5525.121	2415.504	5886.326	2693.471
445.000	19.013	19.024	0.000	0.000	5617.914	2415.504	5979.210	2693.471
450.000	17.990	18.044	0.000	0.000	5710.420	2415.504	6071.881	2693.471
455.000	19.386	19.959	0.000	0.000	5803.859	2415.504	6166.891	2693.471
460.000	18.215	19.073	0.000	0.000	5897.860	2415.504	6264.470	2693.471
465.000	17.083	17.940	0.000	0.000	5986.104	2415.504	6357.000	2693.471
470.000	12.333	13.029	2.831	3.148	6059.643	2422.581	6434.423	2701.340
475.000	12.838	13.520	2.706	3.104	6122.570	2436.425	6500.795	2716.969
480.000	12.898	13.602	3.679	4.583	6186.911	2452.389	6568.600	2736.186
485.000	12.729	13.327	3.835	4.862	6250.977	2471.175	6635.925	2759.800
490.000	12.581	13.210	3.747	4.950	6314.252	2490.130	6702.268	2784.330
495.000	12.965	13.567	2.707	4.205	6378.119	2506.265	6769.208	2807.217
500.000	13.440	14.058	0.000	0.000	6444.131	2513.033	6838.270	2817.728
505.000	13.412	13.967	0.000	0.000	6511.261	2513.033	6908.333	2817.728
510.000	11.076	11.731	2.661	4.786	6572.482	2519.685	6972.576	2829.694
515.000	10.520	11.057	2.938	5.370	6626.472	2533.682	7029.547	2855.085
520.000	8.773	9.071	4.503	6.553	6674.705	2552.285	7079.868	2884.892
525.000	8.437	8.720	4.676	6.733	6717.731	2575.234	7124.345	2918.106
525.000	9.234	9.516	2.947	3.723	6717.731	2575.234	7124.345	2918.106

PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

*** DESBROCES ***

PK inicial : 0.000
PK final : 777.153

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
530.000	11.322	12.048	0.875	1.046	6769.119	2584.791	7178.255	2930.029
531.469	11.035	11.803	1.168	1.337	6785.540	2586.292	7195.774	2931.779
535.000	10.183	10.762	2.038	2.325	6823.000	2591.953	7235.613	2938.244
540.000	9.009	9.596	3.243	3.963	6870.980	2605.156	7286.507	2953.966
545.000	11.053	14.908	2.374	4.034	6921.135	2619.199	7347.765	2973.961
550.000	13.491	17.079	3.243	4.591	6982.493	2633.242	7427.733	2995.524
555.000	10.351	12.500	2.443	3.604	7042.098	2647.457	7501.682	3016.012
560.000	10.370	11.092	1.896	2.386	7093.901	2658.305	7560.662	3030.989
565.000	7.990	8.135	2.518	3.799	7139.800	2669.340	7608.729	3046.452
570.000	8.364	8.391	1.221	1.228	7180.684	2678.686	7650.045	3059.019
575.000	6.931	7.046	2.718	2.729	7218.922	2688.533	7688.638	3068.910
580.000	7.589	7.644	2.015	2.023	7255.223	2700.366	7725.363	3080.790
585.000	8.161	8.223	1.430	1.437	7294.597	2708.980	7765.028	3089.442
590.000	4.927	4.978	6.309	6.472	7327.317	2728.329	7798.028	3109.216
593.669	4.246	4.300	7.368	7.564	7344.147	2753.420	7815.048	3134.966
595.000	4.120	4.179	7.532	7.730	7349.715	2763.336	7820.691	3145.144
600.000	3.565	3.647	7.791	7.997	7368.928	2801.643	7840.256	3184.461
605.000	2.601	2.726	8.352	8.587	7384.343	2842.000	7856.188	3225.920
610.000	1.941	2.074	8.622	8.895	7395.698	2884.436	7868.188	3269.626
615.000	1.808	1.922	8.523	8.836	7405.069	2927.299	7878.180	3313.954
615.000	1.000	1.065	6.000	6.205	7405.069	2927.299	7878.180	3313.954
620.000	0.300	0.318	6.700	6.918	7408.319	2959.049	7881.638	3346.760
625.000	0.417	0.460	6.583	6.911	7410.114	2992.255	7883.584	3381.330
630.000	0.299	0.338	6.701	7.136	7411.905	3025.464	7885.581	3416.446
635.000	0.106	0.119	6.894	7.291	7412.918	3059.451	7886.725	3452.512
640.000	0.000	0.000	7.000	7.277	7413.184	3094.185	7887.023	3488.931
645.000	0.041	0.046	6.959	7.080	7413.287	3129.082	7887.138	3524.822
650.000	0.232	0.253	6.768	6.858	7413.969	3163.400	7887.887	3559.665
655.000	1.914	1.938	5.086	5.154	7419.333	3193.036	7893.365	3589.696
660.000	3.432	3.479	3.568	3.613	7432.697	3214.671	7906.907	3611.615
665.000	4.454	4.527	2.546	2.588	7452.413	3229.956	7926.921	3627.117
670.000	5.752	5.865	1.248	1.278	7477.927	3239.442	7952.900	3636.782
670.128	5.789	5.904	1.211	1.240	7478.666	3239.599	7953.653	3636.943
675.000	6.746	6.945	0.254	0.269	7509.202	3243.166	7984.953	3640.619
680.000	6.741	6.962	0.259	0.275	7542.920	3244.449	8019.721	3641.981
685.000	6.576	6.840	0.424	0.457	7576.212	3246.157	8054.224	3643.811
690.000	6.547	6.839	0.453	0.491	7609.021	3248.348	8088.420	3646.179

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * D E S B R O C E S * * *

PK inicial : 0.000
PK final : 777.153

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
695.000	6.820	7.098	0.180	0.193	7642.438	3249.930	8123.263	3647.887
700.000	7.000	7.266	0.000	0.000	7676.987	3250.381	8159.174	3648.369
705.000	7.000	7.261	0.000	0.000	7711.987	3250.381	8195.493	3648.369
710.000	7.000	7.187	0.000	0.000	7746.987	3250.381	8231.613	3648.369
715.000	7.000	7.184	0.000	0.000	7781.987	3250.381	8267.539	3648.369
720.000	7.000	7.183	0.000	0.000	7816.987	3250.381	8303.454	3648.369
725.000	7.000	7.160	0.000	0.000	7851.987	3250.381	8339.311	3648.369
730.000	7.000	7.151	0.000	0.000	7886.987	3250.381	8375.090	3648.369
735.000	7.000	7.137	0.000	0.000	7921.987	3250.381	8410.811	3648.369
738.740	7.000	7.133	0.000	0.000	7948.167	3250.381	8437.497	3648.369
740.000	7.000	7.132	0.000	0.000	7956.987	3250.381	8446.484	3648.369
745.000	7.000	7.108	0.000	0.000	7991.987	3250.381	8482.083	3648.369
750.000	7.000	7.112	0.000	0.000	8026.987	3250.381	8517.634	3648.369
755.000	7.000	7.105	0.000	0.000	8061.987	3250.381	8553.178	3648.369
760.000	7.000	7.130	0.000	0.000	8096.987	3250.381	8588.765	3648.369
765.000	7.000	7.141	0.000	0.000	8131.987	3250.381	8624.441	3648.369
770.000	7.000	7.140	0.000	0.000	8166.987	3250.381	8660.144	3648.369
775.000	6.933	7.085	0.067	0.067	8201.820	3250.548	8695.708	3648.537
777.153	6.619	6.778	0.381	0.384	8216.409	3251.031	8710.632	3649.023

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PROYECTO : VARIANTE DE OURENSE
EJE: 21: SOLUCION N-525 DESVIO 4

*** DESBROCES ***

PK inicial : 0.000
PK final : 494.417

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	10.500	10.599	0.000	0.000	0.000	0.000	0.000	0.000
5.000	10.637	10.713	0.000	0.000	52.843	0.000	53.281	0.000
10.000	10.702	10.752	0.000	0.000	106.189	0.000	106.944	0.000
15.000	10.741	10.766	0.000	0.000	159.795	0.000	160.741	0.000
20.000	10.635	10.668	0.000	0.000	213.235	0.000	214.326	0.000
25.000	10.678	10.700	0.000	0.000	266.519	0.000	267.746	0.000
26.814	10.715	10.742	0.000	0.000	285.923	0.000	287.195	0.000
30.000	10.777	10.801	0.000	0.000	320.160	0.000	321.513	0.000
35.000	10.814	10.842	0.000	0.000	374.136	0.000	375.619	0.000
40.000	10.838	10.872	0.000	0.000	428.264	0.000	429.902	0.000
41.084	10.832	10.864	0.000	0.000	440.009	0.000	441.683	0.000
45.000	10.770	10.800	0.000	0.000	482.307	0.000	484.101	0.000
50.000	10.617	10.658	0.000	0.000	535.776	0.000	537.746	0.000
55.000	10.531	10.579	0.000	0.000	588.647	0.000	590.837	0.000
60.000	10.533	10.580	0.000	0.000	641.307	0.000	643.733	0.000
65.000	10.579	10.623	0.000	0.000	694.086	0.000	696.740	0.000
70.000	10.568	10.604	0.000	0.000	746.954	0.000	749.809	0.000
75.000	10.615	10.655	0.000	0.000	799.913	0.000	802.958	0.000
80.000	10.560	10.606	0.000	0.000	852.850	0.000	856.112	0.000
85.000	10.460	10.522	0.000	0.000	905.399	0.000	908.933	0.000
90.000	10.346	10.395	0.000	0.000	957.414	0.000	961.224	0.000
95.000	10.237	10.286	0.000	0.000	1008.871	0.000	1012.926	0.000
100.000	10.326	10.360	0.000	0.000	1060.279	0.000	1064.541	0.000
105.000	10.341	10.393	0.000	0.000	1111.947	0.000	1116.421	0.000
110.000	10.403	10.475	0.000	0.000	1163.806	0.000	1168.591	0.000
115.000	10.438	10.504	0.000	0.000	1215.907	0.000	1221.040	0.000
120.000	10.382	10.446	0.000	0.000	1267.957	0.000	1273.413	0.000
121.465	10.361	10.420	0.000	0.000	1283.152	0.000	1288.697	0.000
125.000	10.318	10.380	0.000	0.000	1319.702	0.000	1325.462	0.000
127.465	10.316	10.378	0.000	0.000	1345.133	0.000	1351.046	0.000
130.000	10.312	10.363	0.000	0.000	1371.279	0.000	1377.335	0.000
135.000	10.228	10.299	0.000	0.000	1422.628	0.000	1428.989	0.000
140.000	10.252	10.326	0.000	0.000	1473.828	0.000	1480.553	0.000
145.000	10.298	10.383	0.000	0.000	1525.204	0.000	1532.326	0.000
150.000	10.401	10.514	0.000	0.000	1576.953	0.000	1584.570	0.000
155.000	10.360	10.434	0.000	0.000	1628.855	0.000	1636.942	0.000
160.000	10.332	10.377	0.000	0.000	1680.584	0.000	1688.971	0.000

*** DESBROCES ***

PK inicial : 0.000
PK final : 494.417

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
165.000	10.259	10.323	0.000	0.000	1732.060	0.000	1740.721	0.000
170.000	9.244	9.299	0.662	0.679	1780.817	1.656	1789.775	1.698
175.000	10.232	10.284	0.000	0.000	1829.507	3.312	1838.730	3.397
180.000	9.356	9.415	0.462	0.465	1878.478	4.467	1887.977	4.560
185.000	8.551	8.596	1.359	1.374	1923.246	9.019	1933.003	9.157
190.000	6.597	6.637	3.529	3.593	1961.117	21.240	1971.085	21.575
195.000	10.181	10.238	0.000	0.000	2003.062	30.063	2013.272	30.558
200.000	9.390	9.432	0.382	0.384	2051.987	31.017	2062.448	31.518
205.000	6.896	6.923	2.913	2.936	2092.701	39.254	2103.336	39.818
210.000	5.722	5.744	4.151	4.181	2124.244	56.913	2135.004	57.612
215.000	4.990	5.058	5.208	5.255	2151.023	80.309	2162.009	81.203
220.000	10.110	10.180	0.000	0.000	2188.772	93.328	2200.103	94.341
225.000	8.390	8.434	1.514	1.531	2235.022	97.114	2246.638	98.168
230.000	9.017	9.082	1.368	1.476	2278.540	104.319	2290.429	105.684
235.000	8.461	8.585	2.336	2.519	2322.235	113.578	2334.597	115.672
240.000	8.758	8.940	2.514	2.887	2365.284	125.704	2378.410	129.187
244.599	8.461	8.682	3.238	3.654	2404.879	138.933	2418.932	144.227
245.000	8.420	8.647	3.291	3.694	2408.264	140.242	2422.407	145.700
245.244	8.445	8.673	3.259	3.656	2410.321	141.041	2424.520	146.597
250.000	9.405	9.648	1.730	1.919	2452.770	152.903	2468.086	159.854
255.000	11.144	11.331	0.000	0.000	2504.145	157.227	2520.532	164.653
260.000	11.792	11.886	0.000	0.000	2561.484	157.227	2578.575	164.653
270.000	4.325	4.500	9.393	9.909	2642.069	204.192	2660.505	214.199
274.599	0.000	0.000	20.294	21.181	2652.015	272.457	2670.852	285.691
275.000	0.000	0.000	21.029	21.950	2652.015	280.743	2670.852	294.339
280.000	3.315	3.486	10.562	11.007	2660.302	359.720	2679.567	376.730
285.000	2.074	2.526	9.788	9.948	2673.774	410.595	2694.598	429.117
287.203	0.000	0.000	10.941	10.947	2676.059	433.428	2697.380	452.134
290.000	0.000	0.000	10.975	10.981	2676.059	464.078	2697.380	482.800
292.599	0.000	0.000	11.003	11.007	2676.059	492.638	2697.380	511.373
295.000	0.000	0.000	11.028	11.031	2676.059	519.085	2697.380	537.830
300.000	0.000	0.000	11.105	11.109	2676.059	574.416	2697.380	593.180
305.000	0.000	0.000	11.177	11.182	2676.059	630.121	2697.380	648.906
310.000	0.000	0.000	11.260	11.263	2676.059	686.216	2697.380	705.018
311.807	0.000	0.000	11.290	11.292	2676.059	706.590	2697.380	725.397
315.000	0.000	0.000	11.397	11.400	2676.059	742.808	2697.380	761.625
317.203	0.000	0.000	11.625	11.627	2676.059	768.166	2697.380	786.989

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 494.417

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
320.000	0.000	0.000	11.444	11.446	2676.059	800.428	2697.380	819.257
325.000	0.000	0.000	32.801	32.808	2676.059	911.040	2697.380	929.892
329.807	0.000	0.000	32.774	32.782	2676.059	1068.649	2697.380	1087.538
330.000	0.000	0.000	32.771	32.780	2676.059	1074.974	2697.380	1093.864
335.000	0.000	0.000	11.646	11.649	2676.059	1186.017	2697.380	1204.935
340.000	0.000	0.000	11.492	11.498	2676.059	1243.862	2697.380	1262.802
345.000	0.000	0.000	11.865	11.873	2676.059	1302.254	2697.380	1321.230
350.000	0.000	0.000	11.963	11.970	2676.059	1361.824	2697.380	1380.837
353.807	0.000	0.000	12.009	12.016	2676.059	1407.456	2697.380	1426.495
355.000	0.000	0.000	12.022	12.029	2676.059	1421.790	2697.380	1440.837
360.000	0.000	0.000	27.058	27.746	2676.059	1519.490	2697.380	1540.273
365.000	0.000	0.000	24.365	25.339	2676.059	1648.048	2697.380	1672.984
370.000	0.000	0.000	18.011	18.675	2676.059	1753.989	2697.380	1783.017
380.000	13.687	14.075	0.000	0.000	2744.492	1844.046	2767.757	1876.392
385.000	12.523	12.575	0.000	0.000	2810.017	1844.046	2834.383	1876.392
389.894	12.531	12.704	0.000	0.000	2871.326	1844.046	2896.242	1876.392
390.000	11.674	11.828	0.356	0.361	2872.609	1844.065	2897.543	1876.411
393.761	12.861	13.039	0.000	0.000	2918.747	1844.734	2944.305	1877.089
395.000	11.562	11.569	0.000	0.000	2933.877	1844.734	2959.551	1877.089
400.000	11.472	11.472	0.000	0.000	2991.461	1844.734	3017.155	1877.089
405.000	15.466	16.979	0.000	0.000	3058.805	1844.734	3088.283	1877.089
410.000	15.490	17.230	0.000	0.000	3136.195	1844.734	3173.806	1877.089
413.894	15.601	17.470	0.000	0.000	3196.728	1844.734	3241.367	1877.089
415.000	15.483	17.370	0.000	0.000	3213.918	1844.734	3260.634	1877.089
417.761	15.295	17.220	0.000	0.000	3256.406	1844.734	3308.385	1877.089
420.000	15.069	16.949	0.000	0.000	3290.398	1844.734	3346.636	1877.089
425.000	11.148	11.195	0.000	0.000	3355.939	1844.734	3416.996	1877.089
430.000	11.095	11.133	0.000	0.000	3411.546	1844.734	3472.814	1877.089
431.101	11.091	11.105	0.000	0.000	3423.759	1844.734	3485.057	1877.089
433.894	11.087	11.090	0.000	0.000	3454.731	1844.734	3516.053	1877.089
435.000	11.075	11.079	0.000	0.000	3466.987	1844.734	3528.313	1877.089
440.000	10.983	10.988	0.000	0.000	3522.132	1844.734	3583.479	1877.089
445.000	10.976	10.980	0.000	0.000	3577.032	1844.734	3638.398	1877.089
449.273	10.830	10.831	0.000	0.000	3623.621	1844.734	3684.997	1877.089
450.000	10.798	10.799	0.000	0.000	3631.483	1844.734	3692.859	1877.089
455.000	10.837	10.839	0.000	0.000	3685.570	1844.734	3746.953	1877.089
460.000	11.071	11.079	0.000	0.000	3740.340	1844.734	3801.748	1877.089

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 494.417

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
461.101	11.070	11.081	0.000	0.000	3752.529	1844.734	3813.947	1877.089
465.000	11.078	11.088	0.000	0.000	3795.708	1844.734	3857.164	1877.089
466.873	11.084	11.091	0.000	0.000	3816.462	1844.734	3877.934	1877.089
470.000	11.097	11.102	0.000	0.000	3851.141	1844.734	3912.633	1877.089
472.042	11.105	11.111	0.000	0.000	3873.809	1844.734	3935.312	1877.089
475.000	11.114	11.118	0.000	0.000	3906.671	1844.734	3968.189	1877.089
480.000	11.124	11.126	0.000	0.000	3962.267	1844.734	4023.801	1877.089
485.000	11.099	11.099	0.000	0.000	4017.823	1844.734	4079.364	1877.089
490.000	11.017	11.021	0.000	0.000	4073.113	1844.734	4134.664	1877.089
494.417	10.878	10.890	0.000	0.000	4121.470	1844.734	4183.055	1877.089

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PROYECTO : VARIANTE DE OURENSE
EJE: 22: SOLUCION N-525 DESVIO 3

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 519.080

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	10.459	10.558	0.000	0.000	0.000	0.000	0.000	0.000
5.000	10.598	10.675	0.000	0.000	52.642	0.000	53.083	0.000
10.000	10.660	10.711	0.000	0.000	105.787	0.000	106.547	0.000
15.000	10.700	10.728	0.000	0.000	159.187	0.000	160.143	0.000
20.000	10.607	10.639	0.000	0.000	212.454	0.000	213.561	0.000
24.091	10.644	10.668	0.000	0.000	255.923	0.000	257.145	0.000
25.000	10.650	10.672	0.000	0.000	265.602	0.000	266.844	0.000
30.000	10.743	10.766	0.000	0.000	319.085	0.000	320.440	0.000
35.000	10.783	10.809	0.000	0.000	372.899	0.000	374.379	0.000
38.362	10.806	10.840	0.000	0.000	409.190	0.000	410.770	0.000
40.000	10.817	10.850	0.000	0.000	426.899	0.000	428.534	0.000
45.000	10.761	10.791	0.000	0.000	480.842	0.000	482.637	0.000
50.000	10.597	10.639	0.000	0.000	534.237	0.000	536.211	0.000
55.000	10.515	10.564	0.000	0.000	587.018	0.000	589.216	0.000
60.000	10.519	10.568	0.000	0.000	639.603	0.000	642.044	0.000
65.000	10.556	10.604	0.000	0.000	692.291	0.000	694.973	0.000
70.000	10.518	10.562	0.000	0.000	744.978	0.000	747.889	0.000
75.000	10.588	10.629	0.000	0.000	797.743	0.000	800.867	0.000
80.000	10.509	10.563	0.000	0.000	850.485	0.000	853.845	0.000
85.000	10.344	10.415	0.000	0.000	902.620	0.000	906.288	0.000
90.000	10.236	10.298	0.000	0.000	954.072	0.000	958.071	0.000
95.000	10.194	10.252	0.000	0.000	1005.148	0.000	1009.446	0.000
100.000	10.258	10.301	0.000	0.000	1056.278	0.000	1060.830	0.000
105.000	10.276	10.339	0.000	0.000	1107.615	0.000	1112.432	0.000
110.000	10.269	10.380	0.000	0.000	1158.980	0.000	1164.231	0.000
115.000	10.284	10.381	0.000	0.000	1210.363	0.000	1216.134	0.000
120.000	10.207	10.310	0.000	0.000	1261.590	0.000	1267.864	0.000
125.000	10.171	10.280	0.000	0.000	1312.535	0.000	1319.339	0.000
130.000	10.197	10.295	0.000	0.000	1363.453	0.000	1370.777	0.000
135.000	10.087	10.190	0.000	0.000	1414.161	0.000	1421.989	0.000
140.000	10.194	10.297	0.000	0.000	1464.862	0.000	1473.207	0.000
145.000	10.261	10.354	0.000	0.000	1515.999	0.000	1524.834	0.000
150.000	10.437	10.547	0.000	0.000	1567.745	0.000	1577.084	0.000
155.000	10.399	10.469	0.000	0.000	1619.834	0.000	1629.622	0.000
160.000	10.396	10.440	0.000	0.000	1671.820	0.000	1681.893	0.000
165.000	10.382	10.445	0.000	0.000	1723.763	0.000	1734.104	0.000
170.000	10.321	10.374	0.000	0.000	1775.520	0.000	1786.151	0.000

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PROYECTO : VARIANTE DE OURENSE
EJE: 22: SOLUCION N-525 DESVIO 3

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 519.080

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
175.000	10.398	10.444	0.000	0.000	1827.317	0.000	1838.198	0.000
180.000	10.273	10.324	0.000	0.000	1878.995	0.000	1890.118	0.000
185.000	10.289	10.333	0.000	0.000	1930.401	0.000	1941.761	0.000
190.000	10.213	10.277	0.000	0.000	1981.657	0.000	1993.287	0.000
195.000	10.126	10.184	0.000	0.000	2032.507	0.000	2044.440	0.000
200.000	9.903	9.931	0.000	0.000	2082.581	0.000	2094.730	0.000
205.000	0.000	0.000	9.283	9.312	2107.340	23.206	2119.558	23.279
210.000	0.000	0.000	9.418	9.467	2107.340	69.957	2119.558	70.225
214.662	0.000	0.000	9.660	9.754	2107.340	114.425	2119.558	115.028
215.000	0.000	0.000	9.680	9.763	2107.340	117.694	2119.558	118.326
220.000	0.000	0.000	9.763	9.813	2107.340	166.300	2119.558	167.267
225.000	0.000	0.000	9.837	9.887	2107.340	215.299	2119.558	216.518
230.000	0.000	0.000	10.044	10.107	2107.340	265.000	2119.558	266.503
231.804	0.000	0.000	10.108	10.219	2107.340	283.178	2119.558	284.837
235.000	0.000	0.000	10.364	10.485	2107.340	315.893	2119.558	317.921
238.662	0.000	0.000	10.448	10.552	2107.340	354.001	2119.558	356.440
240.000	0.000	0.000	10.541	10.654	2107.340	368.043	2119.558	370.627
245.000	0.000	0.000	10.449	10.486	2107.340	420.518	2119.558	423.477
245.519	0.000	0.000	10.390	10.425	2107.340	425.926	2119.558	428.903
250.000	0.000	0.000	10.286	10.318	2107.340	472.250	2119.558	475.377
255.000	0.000	0.000	10.269	10.302	2107.340	523.636	2119.558	526.927
260.000	0.000	0.000	10.411	10.477	2107.340	575.335	2119.558	578.874
265.000	0.000	0.000	10.476	10.507	2107.340	627.554	2119.558	631.333
270.000	0.000	0.000	10.405	10.439	2107.340	679.758	2119.558	683.697
275.000	2.415	2.418	8.077	8.419	2113.377	725.964	2125.603	730.842
280.000	0.000	0.000	10.466	10.806	2119.414	772.321	2131.649	778.905
285.000	0.000	0.000	10.332	10.353	2119.414	824.316	2131.649	831.803
290.000	1.246	1.370	9.752	9.903	2122.530	874.527	2135.073	882.441
295.000	5.420	5.492	5.904	6.118	2139.195	913.667	2152.228	922.492
300.000	9.706	9.762	1.211	1.290	2177.011	931.455	2190.366	941.011
305.000	11.652	11.806	0.000	0.000	2230.407	934.483	2244.286	944.234
307.292	8.908	9.046	2.383	2.401	2253.969	937.214	2268.181	946.987
310.000	6.319	6.380	4.451	4.482	2274.586	946.468	2289.068	956.307
310.506	6.052	6.100	4.600	4.632	2277.715	948.758	2292.225	958.612
313.721	3.528	3.545	6.615	6.637	2293.115	966.786	2307.728	976.727
315.000	2.562	2.572	7.377	7.398	2297.009	975.734	2311.640	985.703
320.000	10.531	10.551	0.000	0.000	2329.740	994.176	2344.448	1004.199

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 519.080

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
321.756	14.768	15.799	0.000	0.000	2351.952	994.176	2367.584	1004.199
325.000	20.273	22.712	0.000	0.000	2408.789	994.176	2430.048	1004.199
330.000	19.025	19.532	0.000	0.000	2507.035	994.176	2535.659	1004.199
335.000	17.958	18.356	0.000	0.000	2599.495	994.176	2630.381	1004.199
340.000	16.403	16.682	0.000	0.000	2685.397	994.176	2717.978	1004.199
345.000	14.880	15.298	0.000	0.000	2763.603	994.176	2797.930	1004.199
350.000	13.129	13.431	0.000	0.000	2833.625	994.176	2869.753	1004.199
355.000	11.489	11.563	0.000	0.000	2895.170	994.176	2932.240	1004.199
360.000	11.604	11.662	0.000	0.000	2952.902	994.176	2990.302	1004.199
365.000	11.733	11.781	0.000	0.000	3011.244	994.176	3048.909	1004.199
370.000	10.895	10.966	0.000	0.000	3067.815	994.176	3105.777	1004.199
375.000	10.400	10.463	0.000	0.000	3121.054	994.176	3159.349	1004.199
380.000	8.914	9.051	1.507	1.517	3169.341	997.944	3208.134	1007.991
385.000	11.750	12.281	0.384	0.386	3221.001	1002.674	3261.466	1012.748
390.000	13.078	13.938	0.000	0.000	3283.072	1003.634	3327.013	1013.714
395.000	13.560	14.536	0.000	0.000	3349.668	1003.634	3398.197	1013.714
400.000	14.339	15.260	0.000	0.000	3419.415	1003.634	3472.686	1013.714
405.000	14.957	15.817	0.000	0.000	3492.654	1003.634	3550.379	1013.714
405.737	14.959	15.844	0.000	0.000	3503.678	1003.634	3562.046	1013.714
405.756	14.959	15.845	0.000	0.000	3503.962	1003.634	3562.347	1013.714
410.000	15.514	16.518	0.000	0.000	3568.624	1003.634	3631.021	1013.714
415.000	15.948	16.853	0.000	0.000	3647.279	1003.634	3714.447	1013.714
416.987	16.165	17.034	0.000	0.000	3679.184	1003.634	3748.113	1013.714
417.006	16.166	17.034	0.000	0.000	3679.491	1003.634	3748.437	1013.714
420.000	16.495	17.243	0.000	0.000	3728.384	1003.634	3799.748	1013.714
425.000	16.211	17.184	0.000	0.000	3810.148	1003.634	3885.815	1013.714
429.844	14.514	15.834	0.531	0.639	3884.561	1004.921	3965.785	1015.262
429.863	14.500	15.822	0.545	0.653	3884.837	1004.931	3966.085	1015.274
430.000	14.403	15.736	0.639	0.744	3886.817	1005.012	3968.247	1015.370
435.000	12.118	13.826	2.696	2.697	3953.120	1013.350	4042.152	1023.972
440.000	13.069	14.924	1.424	1.425	4016.087	1023.650	4114.028	1034.276
445.000	14.321	16.019	0.000	0.000	4084.561	1027.210	4191.387	1037.838
450.000	13.460	14.855	0.000	0.000	4154.015	1027.210	4268.574	1037.838
455.000	10.980	10.998	0.000	0.000	4215.115	1027.210	4333.209	1037.838
460.000	11.012	11.017	0.000	0.000	4270.095	1027.210	4388.247	1037.838
465.000	10.969	10.973	0.000	0.000	4325.048	1027.210	4443.223	1037.838
467.921	10.955	10.959	0.000	0.000	4357.068	1027.210	4475.255	1037.838

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 519.080

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
467.974	10.955	10.959	0.000	0.000	4357.648	1027.210	4475.836	1037.838
470.000	10.940	10.944	0.000	0.000	4379.828	1027.210	4498.023	1037.838
475.000	10.741	10.741	0.000	0.000	4434.031	1027.210	4552.236	1037.838
480.000	10.809	10.813	0.000	0.000	4487.906	1027.210	4606.122	1037.838
480.178	10.817	10.821	0.000	0.000	4489.831	1027.210	4608.048	1037.838
480.231	10.819	10.824	0.000	0.000	4490.405	1027.210	4608.621	1037.838
485.000	11.020	11.029	0.000	0.000	4542.481	1027.210	4660.729	1037.838
490.000	11.038	11.047	0.000	0.000	4597.626	1027.210	4715.920	1037.838
495.000	11.058	11.064	0.000	0.000	4652.866	1027.210	4771.197	1037.838
500.000	11.075	11.080	0.000	0.000	4708.200	1027.210	4826.556	1037.838
505.000	11.081	11.083	0.000	0.000	4763.591	1027.210	4881.963	1037.838
510.000	11.053	11.053	0.000	0.000	4818.926	1027.210	4937.303	1037.838
515.000	10.967	10.971	0.000	0.000	4873.977	1027.210	4992.365	1037.838
519.080	10.839	10.851	0.000	0.000	4918.461	1027.210	5036.882	1037.838

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PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 SITUACION FINAL

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	10.459	10.558	0.000	0.000	0.000	0.000	0.000	0.000
5.000	10.614	10.692	0.000	0.000	52.683	0.000	53.125	0.000
10.000	10.692	10.743	0.000	0.000	105.949	0.000	106.710	0.000
10.323	10.697	10.745	0.000	0.000	109.403	0.000	110.180	0.000
15.000	10.775	10.804	0.000	0.000	159.616	0.000	160.572	0.000
19.586	10.715	10.746	0.000	0.000	208.892	0.000	209.987	0.000
20.000	10.704	10.737	0.000	0.000	213.326	0.000	214.434	0.000
21.103	10.715	10.744	0.000	0.000	225.138	0.000	226.281	0.000
25.000	10.739	10.761	0.000	0.000	266.940	0.000	268.183	0.000
27.423	10.787	10.806	0.000	0.000	293.018	0.000	294.311	0.000
30.000	10.819	10.843	0.000	0.000	320.857	0.000	322.206	0.000
32.714	10.822	10.847	0.000	0.000	350.224	0.000	351.640	0.000
35.000	10.815	10.842	0.000	0.000	374.955	0.000	376.431	0.000
39.245	10.804	10.836	0.000	0.000	420.840	0.000	422.443	0.000
40.000	10.806	10.840	0.000	0.000	428.998	0.000	430.625	0.000
45.000	10.743	10.772	0.000	0.000	482.870	0.000	484.655	0.000
46.165	10.725	10.755	0.000	0.000	495.375	0.000	497.194	0.000
46.472	10.715	10.746	0.000	0.000	498.666	0.000	500.494	0.000
50.000	10.559	10.598	0.000	0.000	536.191	0.000	538.145	0.000
51.397	10.522	10.559	0.000	0.000	550.916	0.000	552.924	0.000
52.114	10.515	10.552	0.000	0.000	558.458	0.000	560.492	0.000
55.000	10.443	10.490	0.000	0.000	588.701	0.000	590.855	0.000
56.213	10.441	10.483	0.000	0.000	601.368	0.000	603.575	0.000
57.072	10.400	10.440	0.000	0.000	610.319	0.000	612.561	0.000
60.000	10.379	10.421	0.000	0.000	640.739	0.000	643.101	0.000
65.000	10.389	10.427	0.000	0.000	692.660	0.000	695.221	0.000
65.217	10.387	10.424	0.000	0.000	694.914	0.000	697.483	0.000
70.000	10.300	10.329	0.000	0.000	744.388	0.000	747.114	0.000
75.000	10.273	10.312	0.000	0.000	795.821	0.000	798.717	0.000
76.207	10.252	10.290	0.000	0.000	808.208	0.000	811.150	0.000
80.000	10.161	10.203	0.000	0.000	846.921	0.000	850.016	0.000
84.407	10.076	10.118	0.000	0.000	891.513	0.000	894.794	0.000
85.000	10.064	10.108	0.000	0.000	897.485	0.000	900.791	0.000
88.959	9.920	9.945	0.000	0.000	937.045	0.000	940.485	0.000
90.000	9.888	9.913	0.000	0.000	947.355	0.000	950.821	0.000
95.000	9.751	9.772	0.000	0.000	996.452	0.000	1000.033	0.000
100.000	9.756	9.775	0.000	0.000	1045.220	0.000	1048.900	0.000

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PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 DESVIO 5

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
100.513	9.756	9.776	0.000	0.000	1050.225	0.000	1053.915	0.000
105.000	9.821	9.858	0.000	0.000	1094.146	0.000	1097.965	0.000
107.148	9.906	9.941	0.000	0.000	1115.332	0.000	1119.230	0.000
110.000	9.993	10.031	0.000	0.000	1143.708	0.000	1147.710	0.000
115.000	10.067	10.099	0.000	0.000	1193.858	0.000	1198.035	0.000
115.878	10.067	10.096	0.000	0.000	1202.697	0.000	1206.900	0.000
120.000	10.081	10.104	0.000	0.000	1244.221	0.000	1248.531	0.000
120.944	10.074	10.094	0.000	0.000	1253.734	0.000	1258.065	0.000
125.000	10.044	10.072	0.000	0.000	1294.532	0.000	1298.961	0.000
125.103	10.042	10.070	0.000	0.000	1295.567	0.000	1299.999	0.000
130.000	9.934	9.984	0.000	0.000	1344.480	0.000	1349.101	0.000
132.170	9.977	10.020	0.000	0.000	1366.084	0.000	1370.806	0.000
135.000	10.011	10.052	0.000	0.000	1394.368	0.000	1399.208	0.000
140.000	10.062	10.101	0.000	0.000	1444.552	0.000	1449.592	0.000
142.342	10.086	10.118	0.000	0.000	1468.145	0.000	1473.269	0.000
145.000	10.222	10.268	0.000	0.000	1495.135	0.000	1500.363	0.000
145.483	10.224	10.272	0.000	0.000	1500.072	0.000	1505.324	0.000
146.414	10.217	10.270	0.000	0.000	1509.588	0.000	1514.886	0.000
147.359	10.198	10.263	0.000	0.000	1519.234	0.000	1524.588	0.000
148.065	10.178	10.253	0.000	0.000	1526.427	0.000	1531.830	0.000
150.000	10.121	10.231	0.000	0.000	1546.067	0.000	1551.648	0.000
150.502	10.123	10.223	0.000	0.000	1551.148	0.000	1556.782	0.000
155.000	10.255	10.322	0.000	0.000	1596.976	0.000	1602.987	0.000
158.020	10.332	10.367	0.000	0.000	1628.061	0.000	1634.227	0.000
160.000	10.340	10.368	0.000	0.000	1648.526	0.000	1654.755	0.000
163.753	10.356	10.392	0.000	0.000	1687.361	0.000	1693.712	0.000
165.000	10.380	10.424	0.000	0.000	1700.289	0.000	1706.691	0.000
170.000	10.286	10.328	0.000	0.000	1751.956	0.000	1758.570	0.000
170.704	10.302	10.341	0.000	0.000	1759.203	0.000	1765.845	0.000
175.000	10.489	10.530	0.000	0.000	1803.863	0.000	1810.676	0.000
178.209	10.518	10.561	0.000	0.000	1837.569	0.000	1844.517	0.000
180.000	10.540	10.589	0.000	0.000	1856.427	0.000	1863.457	0.000
185.000	10.662	10.710	0.000	0.000	1909.433	0.000	1916.705	0.000
185.322	10.673	10.721	0.000	0.000	1912.868	0.000	1920.156	0.000
190.000	10.817	10.886	0.000	0.000	1963.132	0.000	1970.693	0.000
192.955	10.949	11.002	0.000	0.000	1995.292	0.000	2003.032	0.000
195.000	11.046	11.111	0.000	0.000	2017.782	0.000	2025.643	0.000

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS DESMONTE -PLANTA-	DESMONTE --REAL--	ANCHOS OCUPADOS TERRAPLEN -PLANTA-	TERRAPLEN --REAL--	AREA DE DESBROCE EN PLANTA DESMONTE	TERRAPLEN	SUPERFICIE REAL DESMONTE	TERRAPLEN
200.000	11.091	11.118	0.000	0.000	2073.124	0.000	2081.216	0.000
201.042	11.092	11.118	0.000	0.000	2084.681	0.000	2092.801	0.000
205.000	11.147	11.178	0.000	0.000	2128.692	0.000	2136.926	0.000
209.358	11.205	11.272	0.000	0.000	2177.398	0.000	2185.845	0.000
210.000	11.203	11.279	0.000	0.000	2184.591	0.000	2193.084	0.000
215.000	11.162	11.324	0.000	0.000	2240.503	0.000	2249.590	0.000
215.004	11.163	11.324	0.000	0.000	2240.548	0.000	2249.635	0.000
220.000	11.392	11.486	0.000	0.000	2296.889	0.000	2306.614	0.000
222.604	11.451	11.514	0.000	0.000	2326.631	0.000	2336.561	0.000
225.000	11.505	11.582	0.000	0.000	2354.131	0.000	2364.230	0.000
230.000	10.858	11.000	0.471	0.482	2410.038	1.176	2420.687	1.206
231.550	10.879	11.007	0.550	0.566	2426.885	1.967	2437.742	2.018
235.000	10.933	11.082	0.713	0.743	2464.511	4.146	2475.845	4.277
239.390	11.236	11.345	0.414	0.433	2513.172	6.621	2525.072	6.859
240.000	11.281	11.396	0.374	0.391	2520.040	6.861	2532.008	7.110
245.000	12.228	12.280	0.000	0.000	2578.811	7.795	2591.201	8.088
250.000	12.680	12.733	0.000	0.000	2641.079	7.795	2653.735	8.088
251.249	12.756	12.802	0.000	0.000	2656.964	7.795	2669.681	8.088
254.892	12.820	12.870	0.000	0.000	2703.551	7.795	2716.442	8.088
255.000	12.826	12.877	0.000	0.000	2704.936	7.795	2717.832	8.088
260.000	13.181	13.272	0.000	0.000	2769.953	7.795	2783.205	8.088
261.619	13.258	13.323	0.000	0.000	2791.354	7.795	2804.733	8.088
262.811	13.329	13.384	0.000	0.000	2807.200	7.795	2820.650	8.088
264.013	13.403	13.456	0.000	0.000	2823.266	7.795	2836.781	8.088
265.000	13.456	13.516	0.000	0.000	2836.520	7.795	2850.092	8.088
265.216	13.466	13.524	0.000	0.000	2839.428	7.795	2853.012	8.088
266.418	13.534	13.586	0.000	0.000	2855.655	7.795	2869.305	8.088
267.620	13.595	13.647	0.000	0.000	2871.959	7.795	2885.672	8.088
268.822	13.660	13.719	0.000	0.000	2888.340	7.795	2902.119	8.088
270.000	13.716	13.788	0.000	0.000	2904.464	7.795	2918.321	8.088
270.025	13.717	13.789	0.000	0.000	2904.807	7.795	2918.666	8.088
271.226	13.788	13.849	0.000	0.000	2921.324	7.795	2935.263	8.088
272.429	13.851	13.913	0.000	0.000	2937.948	7.795	2951.962	8.088
273.631	13.915	13.990	0.000	0.000	2954.635	7.795	2968.732	8.088
274.844	13.982	14.081	0.000	0.000	2971.555	7.795	2985.758	8.088
275.000	13.991	14.094	0.000	0.000	2973.737	7.795	2987.955	8.088
275.911	14.004	14.097	0.000	0.000	2986.488	7.795	3000.796	8.088

*** D E S B R O C E S ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS DESMONTE -PLANTA-	DESMONTE --REAL--	ANCHOS OCUPADOS TERRAPLEN -PLANTA-	TERRAPLEN --REAL--	AREA DE DESBROCE EN PLANTA DESMONTE	TERRAPLEN	SUPERFICIE REAL DESMONTE	TERRAPLEN
276.978	14.014	14.101	0.000	0.000	3001.436	7.795	3015.840	8.088
278.046	14.028	14.115	0.000	0.000	3016.411	7.795	3030.907	8.088
279.124	14.046	14.140	0.000	0.000	3031.543	7.795	3046.136	8.088
280.000	14.064	14.169	0.000	0.000	3043.855	7.795	3058.535	8.088
280.191	14.068	14.169	0.000	0.000	3046.541	7.795	3061.242	8.088
281.260	14.088	14.169	0.000	0.000	3061.591	7.795	3076.388	8.088
282.339	14.112	14.179	0.000	0.000	3076.805	7.795	3091.682	8.088
283.408	14.130	14.190	0.000	0.000	3091.900	7.795	3106.845	8.088
284.478	14.162	14.223	0.000	0.000	3107.036	7.795	3122.047	8.088
285.000	14.175	14.238	0.000	0.000	3114.432	7.795	3129.475	8.088
285.548	14.197	14.253	0.000	0.000	3122.206	7.795	3137.282	8.088
286.619	14.233	14.279	0.000	0.000	3137.431	7.795	3152.560	8.088
290.000	14.308	14.337	0.000	0.000	3185.679	7.795	3200.936	8.088
291.797	14.372	14.396	0.000	0.000	3211.448	7.795	3226.753	8.088
295.000	14.552	14.582	0.000	0.000	3257.769	7.795	3273.162	8.088
296.910	14.729	14.799	0.000	0.000	3285.732	7.795	3301.221	8.088
296.922	14.730	14.800	0.000	0.000	3285.909	7.795	3301.398	8.088
298.956	15.156	15.369	0.000	0.000	3316.303	7.795	3332.080	8.088
300.000	15.309	15.647	0.000	0.000	3332.206	7.795	3348.270	8.088
304.953	14.245	14.288	0.000	0.000	3405.395	7.795	3422.405	8.088
305.000	14.242	14.286	0.000	0.000	3406.064	7.795	3423.076	8.088
310.000	14.045	14.118	0.000	0.000	3476.783	7.795	3494.088	8.088
310.733	14.149	14.235	0.000	0.000	3487.117	7.795	3504.480	8.088
315.000	15.104	15.625	0.000	0.000	3549.528	7.795	3568.187	8.088
317.452	16.140	17.132	0.000	0.000	3587.834	7.795	3608.347	8.088
320.000	17.826	19.768	0.000	0.000	3631.108	7.795	3655.358	8.088
324.027	16.749	18.202	0.000	0.000	3700.725	7.795	3731.810	8.088
325.000	16.532	17.977	0.000	0.000	3716.916	7.795	3749.411	8.088
330.000	13.320	13.359	0.000	0.000	3791.545	7.795	3827.751	8.088
332.311	13.119	13.139	0.000	0.000	3822.096	7.795	3858.370	8.088
335.000	12.854	12.864	0.000	0.000	3857.017	7.795	3893.332	8.088
339.588	12.533	12.539	0.000	0.000	3915.256	7.795	3951.607	8.088
340.000	12.506	12.512	0.000	0.000	3920.414	7.795	3956.767	8.088
340.136	12.499	12.505	0.000	0.000	3922.114	7.795	3958.469	8.088
345.000	12.318	12.330	0.000	0.000	3982.469	7.795	4018.868	8.088
348.291	12.204	12.219	0.000	0.000	4022.819	7.795	4059.264	8.088
350.000	12.147	12.171	0.000	0.000	4043.626	7.795	4080.105	8.088

PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 DESVIO 5

*** DESBROCES ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
355.000	12.040	12.098	0.000	0.000	4104.092	7.795	4140.779	8.088
356.340	11.948	11.989	0.000	0.000	4120.164	7.795	4156.917	8.088
360.000	11.770	11.799	0.000	0.000	4163.568	7.795	4200.450	8.088
363.840	11.732	11.749	0.000	0.000	4208.692	7.795	4245.662	8.088
365.000	15.934	15.968	0.000	0.000	4224.738	7.795	4261.737	8.088
365.175	16.528	16.563	0.000	0.000	4227.578	7.795	4264.584	8.088
370.000	16.574	16.600	0.000	0.000	4307.438	7.795	4344.589	8.088
375.000	16.580	16.597	0.000	0.000	4390.322	7.795	4427.580	8.088
378.113	16.515	16.520	0.000	0.000	4441.834	7.795	4479.126	8.088
380.000	16.472	16.477	0.000	0.000	4472.957	7.795	4510.260	8.088
385.000	16.228	16.233	0.000	0.000	4554.707	7.795	4592.035	8.088
389.588	16.023	16.031	0.000	0.000	4628.692	7.795	4666.049	8.088
390.000	16.004	16.013	0.000	0.000	4635.290	7.795	4672.650	8.088
395.000	15.793	15.812	0.000	0.000	4714.781	7.795	4752.213	8.088
400.000	15.649	15.670	0.000	0.000	4793.385	7.795	4830.917	8.088
405.000	14.952	14.968	0.325	0.330	4869.887	8.607	4907.510	8.914
410.000	14.722	14.734	0.544	0.553	4944.072	10.780	4981.764	11.123
411.665	14.929	14.968	0.234	0.238	4968.756	11.429	5006.491	11.782
415.000	15.583	15.725	0.000	0.000	5019.635	11.819	5057.671	12.180
420.000	15.875	16.188	0.000	0.000	5098.279	11.819	5137.453	12.180
425.000	16.261	16.486	0.000	0.000	5178.620	11.819	5219.139	12.180
430.000	16.107	16.179	0.000	0.000	5259.540	11.819	5300.802	12.180
431.446	16.140	16.196	0.000	0.000	5282.854	11.819	5324.209	12.180
435.000	16.144	16.179	0.000	0.000	5340.223	11.819	5381.740	12.180
440.000	16.398	16.432	0.000	0.000	5421.579	11.819	5463.267	12.180
445.000	16.452	16.475	0.000	0.000	5503.704	11.819	5545.533	12.180
446.695	16.434	16.460	0.000	0.000	5531.575	11.819	5573.445	12.180
450.000	16.379	16.423	0.000	0.000	5585.799	11.819	5627.784	12.180
455.000	16.228	16.331	0.000	0.000	5667.317	11.819	5709.668	12.180
460.000	16.028	16.189	0.000	0.000	5747.957	11.819	5790.968	12.180
463.736	16.000	16.041	0.000	0.000	5807.786	11.819	5851.174	12.180
465.000	16.031	16.039	0.000	0.000	5828.030	11.819	5871.449	12.180
470.000	16.149	16.165	0.000	0.000	5908.481	11.819	5951.960	12.180
475.000	16.262	16.278	0.000	0.000	5989.510	11.819	6033.067	12.180
477.620	16.316	16.333	0.000	0.000	6032.187	11.819	6075.788	12.180
477.621	16.316	16.333	0.000	0.000	6032.203	11.819	6075.804	12.180
480.000	16.369	16.388	0.000	0.000	6071.082	11.819	6114.726	12.180

PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 DESVIO 5

*** DESBROCES ***

PK inicial : 0.000
PK final : 500.954

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
485.000	16.485	16.507	0.000	0.000	6153.217	11.819	6196.963	12.180
488.918	16.585	16.593	0.000	0.000	6218.002	11.819	6261.806	12.180
490.000	16.596	16.605	0.000	0.000	6235.953	11.819	6279.766	12.180
495.000	16.517	16.519	0.000	0.000	6318.735	11.819	6362.578	12.180
500.000	16.388	16.398	0.000	0.000	6400.996	11.819	6444.871	12.180
500.953	16.363	16.376	0.000	0.000	6416.601	11.819	6460.488	12.180
500.954	16.363	16.376	0.000	0.000	6416.618	11.819	6460.505	12.180

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 4 / INTERSECCION

*** DESBROCES ***

PK inicial : 0.000
PK final : 63.868

P.K.	ANCHOS OCUPADOS DESMONTE -PLANTA-	DESMONTE --REAL--	TERRAPLEN -PLANTA-	TERRAPLEN --REAL--	AREA DE DESBROCE EN PLANTA DESMONTE	TERRAPLEN	SUPERFICIE REAL DESMONTE	TERRAPLEN
0.000	25.463	25.698	0.000	0.000	0.000	0.000	0.000	0.000
0.035	35.123	35.376	0.000	0.000	1.060	0.000	1.069	0.000
0.038	35.015	35.267	0.000	0.000	1.165	0.000	1.175	0.000
0.151	33.055	33.281	0.000	0.000	5.011	0.000	5.048	0.000
0.155	32.998	33.223	0.000	0.000	5.144	0.000	5.181	0.000
0.341	30.991	31.176	0.000	0.000	11.095	0.000	11.170	0.000
0.349	30.919	31.103	0.000	0.000	11.342	0.000	11.419	0.000
0.561	29.338	29.499	0.000	0.000	17.729	0.000	17.843	0.000
0.604	29.017	29.173	0.000	0.000	18.984	0.000	19.104	0.000
0.618	28.924	29.079	0.000	0.000	19.390	0.000	19.512	0.000
0.938	27.078	27.199	0.000	0.000	28.350	0.000	28.516	0.000
0.961	26.957	27.076	0.000	0.000	28.971	0.000	29.141	0.000
1.341	25.188	25.265	0.000	0.000	38.879	0.000	39.085	0.000
1.375	25.042	25.116	0.000	0.000	39.733	0.000	39.942	0.000
1.811	23.378	23.421	0.000	0.000	50.289	0.000	50.523	0.000
1.859	23.225	23.266	0.000	0.000	51.407	0.000	51.643	0.000
1.965	22.916	22.955	0.000	0.000	53.853	0.000	54.093	0.000
2.345	21.813	21.847	0.000	0.000	62.351	0.000	62.605	0.000
2.408	21.645	21.678	0.000	0.000	63.720	0.000	63.976	0.000
2.939	20.381	20.406	0.000	0.000	74.878	0.000	75.150	0.000
3.020	20.206	20.231	0.000	0.000	76.521	0.000	76.796	0.000
3.591	19.048	19.074	0.000	0.000	87.728	0.000	88.017	0.000
3.690	18.860	18.887	0.000	0.000	89.605	0.000	89.896	0.000
4.294	17.807	17.835	0.000	0.000	100.678	0.000	100.986	0.000
4.414	17.616	17.643	0.000	0.000	102.803	0.000	103.115	0.000
5.000	16.736	16.759	0.000	0.000	112.868	0.000	113.195	0.000
5.046	16.665	16.688	0.000	0.000	113.637	0.000	113.964	0.000
5.187	16.463	16.485	0.000	0.000	115.972	0.000	116.303	0.000
5.842	15.576	15.594	0.000	0.000	126.465	0.000	126.809	0.000
6.004	15.388	15.406	0.000	0.000	128.973	0.000	129.320	0.000
6.676	14.677	14.691	0.000	0.000	139.075	0.000	139.432	0.000
6.860	14.499	14.514	0.000	0.000	141.759	0.000	142.119	0.000
7.543	13.904	13.917	0.000	0.000	151.459	0.000	151.828	0.000
7.750	13.741	13.754	0.000	0.000	154.320	0.000	154.692	0.000
8.438	13.263	13.276	0.000	0.000	163.609	0.000	163.991	0.000
8.667	13.124	13.138	0.000	0.000	166.631	0.000	167.015	0.000
9.356	12.786	12.807	0.000	0.000	175.556	0.000	175.953	0.000

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 4 / INTERSECCION

*** DESBROCES ***

PK inicial : 0.000
PK final : 63.868

P.K.	ANCHOS OCUPADOS DESMONTE -PLANTA-	DESMONTE --REAL--	TERRAPLEN -PLANTA-	TERRAPLEN --REAL--	AREA DE DESBROCE EN PLANTA DESMONTE	TERRAPLEN	SUPERFICIE REAL DESMONTE	TERRAPLEN
9.606	12.668	12.689	0.000	0.000	178.738	0.000	179.140	0.000
10.000	12.507	12.529	0.000	0.000	183.698	0.000	184.108	0.000
10.208	12.418	12.441	0.000	0.000	186.290	0.000	186.705	0.000
10.776	12.289	12.315	0.000	0.000	193.307	0.000	193.736	0.000
11.014	12.239	12.266	0.000	0.000	196.226	0.000	196.661	0.000
11.705	12.144	12.175	0.000	0.000	204.650	0.000	205.106	0.000
11.975	12.107	12.139	0.000	0.000	207.924	0.000	208.388	0.000
13.168	11.904	11.924	0.000	0.000	222.247	0.000	222.741	0.000
14.355	11.790	11.818	0.000	0.000	236.309	0.000	236.832	0.000
15.000	11.811	11.851	0.000	0.000	243.920	0.000	244.465	0.000
15.537	11.800	11.829	0.000	0.000	250.260	0.000	250.823	0.000
16.715	11.738	11.812	0.000	0.000	264.124	0.000	264.748	0.000
16.777	11.736	11.809	0.000	0.000	264.852	0.000	265.480	0.000
17.890	11.521	11.590	0.000	0.000	277.794	0.000	278.502	0.000
19.063	11.398	11.517	0.000	0.000	291.236	0.000	292.054	0.000
20.000	11.295	11.464	0.000	0.000	301.867	0.000	302.821	0.000
20.236	11.273	11.458	0.000	0.000	304.530	0.000	305.526	0.000
25.000	11.155	11.534	0.000	0.000	357.953	0.000	360.290	0.000
30.000	10.843	11.101	0.000	0.000	412.947	0.000	416.876	0.000
31.511	10.810	11.065	0.000	0.000	429.306	0.000	433.623	0.000
35.000	10.525	10.649	0.000	0.000	466.524	0.000	471.504	0.000
38.600	10.388	10.580	0.000	0.000	504.168	0.000	509.717	0.000
40.000	10.381	10.641	0.000	0.000	518.706	0.000	524.572	0.000
45.000	9.453	9.627	0.513	0.516	568.290	1.282	575.240	1.291
46.245	9.556	9.719	0.419	0.430	580.123	1.862	587.283	1.881
50.000	9.301	9.394	0.698	0.711	615.526	3.960	623.168	4.024
55.000	9.713	9.824	0.371	0.372	663.059	6.633	671.212	6.732
60.000	10.621	10.792	0.000	0.000	713.892	7.560	722.750	7.662
63.868	14.324	17.616	0.000	0.000	762.135	7.560	777.690	7.662

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

*** DESBROCES ***

PK inicial : 0.000
PK final : 500.392

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
0.000	7.090	7.176	2.652	2.672	0.000	0.000	0.000	0.000
5.000	16.782	17.456	0.000	0.000	59.680	6.629	61.581	6.679
10.000	18.163	18.812	0.000	0.000	147.041	6.629	152.251	6.679
15.000	18.310	18.963	0.000	0.000	238.224	6.629	246.689	6.679
17.054	17.945	18.527	0.000	0.000	275.458	6.629	285.191	6.679
20.000	17.603	18.082	0.000	0.000	327.819	6.629	339.116	6.679
25.000	17.329	17.713	0.000	0.000	415.147	6.629	428.604	6.679
30.000	16.985	17.323	0.000	0.000	500.932	6.629	516.193	6.679
35.000	16.774	17.048	0.000	0.000	585.329	6.629	602.122	6.679
40.000	16.624	16.867	0.000	0.000	668.824	6.629	686.909	6.679
45.000	16.319	16.549	0.000	0.000	751.182	6.629	770.449	6.679
50.000	16.031	16.330	0.000	0.000	832.057	6.629	852.645	6.679
55.000	15.853	16.309	0.000	0.000	911.765	6.629	934.242	6.679
60.000	15.444	15.883	0.000	0.000	990.008	6.629	1014.723	6.679
65.000	14.809	15.246	0.000	0.000	1065.640	6.629	1092.546	6.679
70.000	14.432	14.997	0.000	0.000	1138.742	6.629	1168.152	6.679
75.000	13.705	14.315	0.000	0.000	1209.084	6.629	1241.430	6.679
80.000	12.637	13.332	0.000	0.000	1274.938	6.629	1310.548	6.679
85.000	11.953	12.814	0.000	0.000	1336.413	6.629	1375.913	6.679
90.000	10.247	11.014	2.350	2.630	1391.912	12.504	1435.482	13.254
95.000	10.035	10.737	1.400	1.505	1442.615	21.878	1489.859	23.592
100.000	9.876	10.575	1.820	1.984	1492.393	29.928	1543.138	32.315
105.000	9.772	10.395	1.749	1.951	1541.515	38.851	1595.563	42.153
110.000	8.330	8.674	2.940	3.252	1586.770	50.572	1643.235	55.161
115.000	6.709	6.864	5.232	5.801	1624.368	71.000	1682.082	77.795
119.532	2.526	2.588	13.033	14.188	1645.295	112.389	1703.501	123.090
120.000	1.993	2.044	13.700	14.875	1646.353	118.645	1704.585	129.891
125.000	0.000	0.000	17.284	18.472	1651.335	196.104	1709.695	213.259
130.000	0.000	0.000	19.269	20.506	1651.335	287.487	1709.695	310.706
135.000	0.000	0.000	21.298	22.421	1651.335	388.906	1709.695	418.025
139.681	0.000	0.000	24.103	24.926	1651.335	495.167	1709.695	528.842
140.000	0.000	0.000	24.306	25.121	1651.335	502.888	1709.695	536.824
145.000	0.000	0.000	26.513	27.204	1651.335	629.937	1709.695	667.638
150.000	0.000	0.000	25.164	26.014	1651.335	759.130	1709.695	800.684
155.000	0.000	0.000	19.371	19.943	1651.335	870.468	1709.695	915.578
160.000	0.000	0.000	16.275	16.874	1651.335	959.584	1709.695	1007.620
165.000	0.000	0.000	15.095	15.761	1651.335	1038.010	1709.695	1089.206

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

*** DESBROCES ***

PK inicial : 0.000
PK final : 500.392

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
170.000	0.000	0.000	15.088	15.878	1651.335	1113.468	1709.695	1168.304
175.000	0.000	0.000	15.007	16.149	1651.335	1188.708	1709.695	1248.372
180.000	2.742	2.826	14.631	16.135	1658.190	1262.805	1716.761	1329.083
185.000	1.727	1.803	17.319	19.109	1669.362	1342.680	1728.335	1417.194
190.000	0.000	0.000	17.560	19.156	1673.680	1429.878	1732.844	1512.858
195.000	0.000	0.000	18.344	19.648	1673.680	1519.639	1732.844	1609.868
200.000	0.000	0.000	19.397	20.417	1673.680	1613.992	1732.844	1710.029
204.830	0.000	0.000	19.651	20.383	1673.680	1708.293	1732.844	1808.562
205.000	0.000	0.000	19.656	20.382	1673.680	1711.634	1732.844	1812.027
210.000	0.000	0.000	18.576	18.967	1673.680	1807.215	1732.844	1910.401
210.001	0.000	0.000	18.576	18.967	1673.680	1807.234	1732.844	1910.420
215.000	0.000	0.000	13.817	13.951	1673.680	1888.199	1732.844	1992.697
220.000	0.000	0.000	9.362	9.368	1673.680	1946.146	1732.844	2050.994
225.000	0.000	0.000	7.870	7.870	1673.680	1989.227	1732.844	2094.089
230.000	9.625	9.625	0.000	0.000	1697.743	2008.903	1756.907	2113.765
235.000	9.652	9.671	0.000	0.000	1745.937	2008.903	1805.148	2113.765
240.000	11.578	11.815	0.000	0.000	1799.012	2008.903	1858.862	2113.765
245.000	15.237	15.755	0.000	0.000	1866.048	2008.903	1927.788	2113.765
250.000	17.512	18.415	0.000	0.000	1947.921	2008.903	2013.214	2113.765
255.000	18.746	20.008	0.000	0.000	2038.567	2008.903	2109.272	2113.765
260.000	19.636	21.212	0.000	0.000	2134.523	2008.903	2212.322	2113.765
265.000	18.571	20.065	0.000	0.000	2230.040	2008.903	2315.513	2113.765
270.000	14.817	15.658	0.000	0.000	2313.509	2008.903	2404.819	2113.765
275.000	11.224	11.634	0.000	0.000	2378.613	2008.903	2473.050	2113.765
277.280	9.958	10.198	0.000	0.000	2402.761	2008.903	2497.939	2113.765
280.000	6.536	6.686	3.470	3.607	2425.193	2013.622	2520.901	2118.670
285.000	3.321	3.410	8.038	8.358	2449.834	2042.392	2546.139	2148.582
290.000	1.622	1.663	9.810	10.149	2462.192	2087.012	2558.820	2194.849
295.000	1.415	1.436	10.421	10.841	2469.786	2137.589	2566.566	2247.323
300.000	0.000	0.000	12.167	12.771	2473.324	2194.061	2570.156	2306.352
305.000	0.000	0.000	11.913	12.637	2473.324	2254.262	2570.156	2369.871
310.000	0.000	0.000	7.968	8.029	2473.324	2303.963	2570.156	2421.537
315.000	1.924	1.929	6.531	6.577	2478.133	2340.209	2574.978	2458.052
317.238	2.520	2.529	5.717	5.747	2483.105	2353.913	2579.966	2471.842
320.000	4.667	4.709	3.939	3.977	2493.031	2367.247	2589.961	2485.271
325.000	6.955	7.116	2.548	2.614	2522.086	2383.463	2619.525	2501.749
330.000	9.414	9.818	0.834	0.865	2563.010	2391.917	2661.861	2510.447

PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * D E S B R O C E S * * *

PK inicial : 0.000
PK final : 500.392

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
335.000	9.731	10.450	1.848	1.920	2610.874	2398.624	2712.531	2517.410
340.000	7.767	8.407	3.639	3.715	2654.618	2412.341	2759.674	2531.499
345.000	7.668	8.026	2.652	2.715	2693.204	2428.067	2800.757	2547.573
350.000	7.968	8.200	1.534	1.565	2732.292	2438.532	2841.321	2558.272
355.000	11.153	11.491	0.000	0.000	2780.093	2442.367	2890.549	2562.185
360.000	13.851	14.746	0.000	0.000	2842.604	2442.367	2956.142	2562.185
363.289	14.827	16.004	0.000	0.000	2889.765	2442.367	3006.711	2562.185
365.000	14.911	16.134	0.000	0.000	2915.205	2442.367	3034.205	2562.185
370.000	15.832	17.186	0.000	0.000	2992.062	2442.367	3117.504	2562.185
375.000	17.119	18.548	0.000	0.000	3074.441	2442.367	3206.838	2562.185
380.000	17.617	19.016	0.000	0.000	3161.283	2442.367	3300.746	2562.185
385.000	18.451	19.825	0.000	0.000	3251.453	2442.367	3397.848	2562.185
390.000	18.655	20.050	0.000	0.000	3344.216	2442.367	3497.534	2562.185
395.000	18.710	20.142	0.000	0.000	3437.627	2442.367	3598.012	2562.185
400.000	18.756	20.381	0.000	0.000	3531.290	2442.367	3699.319	2562.185
405.000	18.597	20.457	0.000	0.000	3624.671	2442.367	3801.414	2562.185
410.000	19.043	21.099	0.000	0.000	3718.771	2442.367	3905.304	2562.185
415.000	18.975	20.810	0.000	0.000	3813.817	2442.367	4010.075	2562.185
420.000	18.799	20.476	0.000	0.000	3908.252	2442.367	4113.290	2562.185
423.662	18.615	20.227	0.000	0.000	3976.757	2442.367	4187.818	2562.185
425.000	18.628	20.251	0.000	0.000	4001.673	2442.367	4214.897	2562.185
430.000	19.080	20.867	0.000	0.000	4095.942	2442.367	4317.693	2562.185
435.000	18.752	20.573	0.000	0.000	4190.521	2442.367	4421.294	2562.185
440.000	17.588	19.316	0.000	0.000	4281.370	2442.367	4521.016	2562.185
445.000	14.431	15.627	0.000	0.000	4361.419	2442.367	4608.371	2562.185
450.000	9.572	10.373	3.954	4.272	4421.426	2452.253	4673.369	2572.864
455.000	2.790	3.040	13.368	14.359	4452.332	2495.561	4706.901	2619.441
455.880	0.000	0.000	14.528	15.554	4453.560	2507.835	4708.238	2632.603
460.000	0.000	0.000	22.125	24.050	4453.560	2583.339	4708.238	2714.188
465.000	0.000	0.000	29.287	32.421	4453.560	2711.867	4708.238	2855.366
469.099	0.000	0.000	29.851	32.913	4453.560	2833.071	4708.238	2989.267
470.000	0.000	0.000	29.522	32.541	4453.560	2859.819	4708.238	3018.754
475.000	0.000	0.000	25.708	27.773	4453.560	2997.894	4708.238	3169.538
480.000	0.000	0.000	14.503	14.697	4453.560	3098.423	4708.238	3275.713
485.000	0.000	0.000	7.782	7.829	4453.560	3154.137	4708.238	3332.027
488.698	7.754	7.817	0.000	0.000	4467.897	3168.527	4722.692	3346.502
490.000	7.844	7.873	0.000	0.000	4478.052	3168.527	4732.906	3346.502

PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * D E S B R O C E S * * *

PK inicial : 0.000
PK final : 500.392

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
495.000	8.369	9.097	0.000	0.000	4518.585	3168.527	4775.329	3346.502
496.348	5.263	5.348	0.222	0.247	4527.773	3168.676	4785.065	3346.669
500.000	11.158	14.232	0.000	0.000	4557.758	3169.082	4820.817	3347.120
500.392	11.037	14.078	0.000	0.000	4562.109	3169.082	4826.365	3347.120

1.1.1.2.6. CONEXIÓN PROVISIONAL

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1000.000	16.691	17.029	0.000	0.000	0.000	0.000	0.000	0.000
1001.000	16.297	16.549	0.000	0.000	16.494	0.000	16.789	0.000
1002.000	15.885	16.112	0.000	0.000	32.585	0.000	33.119	0.000
1003.000	14.833	14.975	0.000	0.000	47.943	0.000	48.663	0.000
1004.000	13.235	13.353	0.000	0.000	61.977	0.000	62.826	0.000
1005.000	13.166	13.226	0.000	0.000	75.178	0.000	76.116	0.000
1006.000	13.110	13.165	0.000	0.000	88.316	0.000	89.311	0.000
1007.000	12.993	13.029	0.001	0.001	101.367	0.000	102.408	0.000
1008.000	12.836	12.868	0.000	0.000	114.282	0.001	115.356	0.001
1009.000	12.814	12.850	0.084	0.085	127.107	0.043	128.215	0.043
1010.000	12.197	12.233	0.869	0.876	139.612	0.519	140.757	0.524
1011.000	11.650	11.685	1.588	1.603	151.536	1.748	152.716	1.764
1012.000	11.139	11.176	2.263	2.286	162.930	3.673	164.146	3.708
1013.000	9.575	9.603	3.974	4.002	173.287	6.792	174.536	6.852
1014.000	6.940	6.987	6.736	6.767	181.544	12.146	182.831	12.236
1015.000	5.381	5.410	8.559	8.595	187.705	19.794	189.030	19.918
1015.253	4.910	4.943	9.098	9.135	189.007	22.028	190.339	22.161
1016.000	3.275	3.339	10.976	11.018	192.064	29.526	193.433	29.687
1017.000	2.688	2.721	11.713	11.757	195.045	40.870	196.463	41.075
1018.000	2.291	2.336	12.259	12.307	197.535	52.856	198.991	53.107
1018.181	2.324	2.363	12.264	12.312	197.953	55.076	199.416	55.335
1019.000	2.911	2.929	11.945	12.004	200.096	64.989	201.584	65.293
1020.000	3.062	3.089	12.120	12.198	203.083	77.022	204.592	77.394
1021.000	3.028	3.038	12.339	12.416	206.127	89.251	207.655	89.701
1021.072	3.024	3.034	12.358	12.436	206.345	90.140	207.874	90.596
1022.000	1.085	1.103	14.615	14.728	208.252	102.656	209.794	103.200
1023.000	0.299	0.314	15.873	16.072	208.945	117.900	210.502	118.600
1023.889	0.283	0.298	16.220	16.403	209.203	132.165	210.774	133.035
1024.000	0.278	0.293	16.293	16.488	209.235	133.970	210.807	134.860
1025.000	0.350	0.376	16.719	17.034	209.549	150.476	211.141	151.621
1026.000	0.545	0.584	16.804	17.045	209.996	167.237	211.621	168.661
1026.603	0.681	0.730	17.036	17.370	210.365	177.440	212.017	179.037
1027.000	0.770	0.825	17.176	17.471	210.653	184.232	212.326	185.954
1028.000	0.994	1.064	17.575	17.937	211.535	201.608	213.270	203.658
1029.000	7.382	7.574	17.950	18.216	215.723	219.370	217.589	221.734
1029.187	7.359	7.547	18.022	18.283	217.101	222.734	219.003	225.147
1030.000	7.251	7.429	18.400	18.694	223.040	237.540	225.091	240.178

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1031.000	7.281	7.428	18.576	18.833	230.306	256.027	232.519	258.942
1031.623	7.297	7.436	17.044	17.301	234.847	267.123	237.149	270.197
1032.000	7.303	7.441	15.383	15.649	237.599	273.235	239.953	276.408
1032.756	7.368	7.479	12.212	12.434	243.144	283.666	245.593	287.024
1033.000	7.388	7.493	11.648	11.876	244.944	286.577	247.420	289.990
1033.495	7.433	7.530	10.519	10.780	248.612	292.064	251.138	295.597
1034.000	7.478	7.574	9.403	9.663	252.377	297.094	254.952	300.759
1034.356	7.415	7.502	8.750	8.977	255.028	300.325	257.635	304.077
1035.000	7.396	7.468	7.485	7.696	259.797	305.553	262.455	309.445
1035.457	7.532	7.593	6.441	6.672	263.208	308.735	265.897	312.729
1036.000	7.840	7.893	5.062	5.331	267.382	311.858	270.101	315.987
1036.523	7.599	7.647	4.373	4.572	271.419	314.326	274.165	318.577
1037.000	7.374	7.418	4.623	4.802	274.991	316.471	277.758	320.813
1038.000	6.956	6.991	5.077	5.236	282.156	321.321	284.963	325.832
1039.000	5.695	5.723	6.077	6.174	288.481	326.898	291.319	331.537
1040.000	4.893	4.918	7.026	7.087	293.775	333.450	296.640	338.168
1041.000	4.697	4.710	7.900	7.958	298.570	340.913	301.454	345.690
1042.000	4.533	4.541	8.798	8.843	303.185	349.262	306.079	354.090
1043.000	0.000	0.000	14.420	14.464	305.451	360.871	308.349	365.744
1044.000	0.000	0.000	15.587	15.640	305.451	375.874	308.349	380.796
1045.000	0.000	0.000	16.573	16.623	305.451	391.954	308.350	396.928
1046.000	0.000	0.000	17.519	17.590	305.452	409.001	308.350	414.034
1047.000	0.000	0.000	18.791	18.862	305.452	427.156	308.350	432.260
1048.000	0.000	0.000	20.129	20.242	305.452	446.616	308.350	451.811
1049.000	0.000	0.000	20.978	21.000	305.452	467.170	308.350	472.432
1050.000	0.000	0.000	21.768	21.797	305.452	488.543	308.350	493.831
1051.000	0.000	0.000	18.688	18.765	305.452	508.771	308.350	514.112
1052.000	0.000	0.000	16.738	16.926	305.452	526.484	308.350	531.957
1053.000	2.040	2.064	11.945	12.012	306.472	540.826	309.382	546.426
1054.000	37.068	37.249	0.000	0.000	326.026	546.798	329.038	552.432
1055.000	36.233	36.411	0.000	0.000	362.677	546.798	365.868	552.432
1056.000	35.437	35.612	0.000	0.000	398.512	546.798	401.879	552.432
1057.000	23.148	23.347	3.423	3.453	427.805	548.510	431.359	554.159
1058.000	0.297	0.301	10.751	10.894	439.527	555.597	443.183	561.332
1058.349	0.000	0.000	11.372	11.479	439.579	559.457	443.236	565.236
1059.000	0.000	0.000	13.035	13.102	439.579	567.402	443.236	573.237
1059.676	0.000	0.000	14.693	14.759	439.579	576.774	443.236	582.654

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

* * * D E S B R O C E S * * *

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1060.000	0.000	0.000	15.470	15.553	439.579	581.661	443.236	587.564
1061.000	0.000	0.000	16.847	16.891	439.579	597.819	443.236	603.786
1061.006	0.000	0.000	16.856	16.899	439.579	597.920	443.236	603.887
1062.000	0.000	0.000	18.446	18.525	439.579	615.465	443.236	621.494
1062.441	0.000	0.000	18.995	19.061	439.579	623.721	443.236	629.781
1063.000	0.000	0.000	19.721	19.789	439.579	634.542	443.236	640.640
1063.765	0.000	0.000	20.773	20.877	439.579	650.031	443.236	656.195
1064.000	0.000	0.000	21.298	21.422	439.579	654.974	443.236	661.165
1064.380	0.000	0.000	21.676	21.804	439.579	663.139	443.236	669.377
1065.000	0.000	0.000	21.805	21.945	439.579	676.618	443.236	682.940
1065.161	0.000	0.000	21.373	21.518	439.579	680.094	443.236	686.438
1065.994	10.066	10.143	11.062	11.185	443.772	693.603	447.461	700.059
1066.000	10.109	10.186	11.018	11.141	443.832	693.669	447.522	700.126
1066.875	14.629	14.706	5.262	5.346	454.655	700.792	458.412	707.339
1067.000	15.152	15.236	4.568	4.644	456.517	701.406	460.283	707.964
1067.794	18.146	18.333	0.451	0.460	469.736	703.399	473.610	709.990
1068.000	18.311	18.526	0.000	0.000	473.491	703.446	477.407	710.037
1068.744	18.410	18.545	0.000	0.000	487.151	703.446	491.197	710.037
1069.000	18.867	18.996	0.000	0.000	491.923	703.446	496.002	710.037
1069.714	20.178	20.331	0.000	0.000	505.862	703.446	510.042	710.037
1070.000	20.695	20.873	0.000	0.000	511.707	703.446	515.934	710.037
1070.695	21.821	21.951	0.000	0.000	526.481	703.446	530.816	710.037
1071.000	22.306	22.429	0.000	0.000	533.210	703.446	537.584	710.037
1071.676	23.342	23.484	0.000	0.000	548.639	703.446	553.102	710.037
1072.000	23.832	23.998	0.000	0.000	556.282	703.446	560.794	710.037
1072.646	24.845	24.969	0.000	0.000	572.004	703.446	576.611	710.037
1073.000	25.393	25.507	0.000	0.000	580.896	703.446	585.545	710.037
1073.595	26.285	26.410	0.000	0.000	596.270	703.446	600.990	710.037
1074.000	26.884	27.035	0.000	0.000	607.037	703.446	611.813	710.037
1074.515	27.448	27.569	0.001	0.001	621.028	703.446	625.873	710.037
1075.000	28.194	28.290	0.000	0.000	634.521	703.446	639.419	710.037
1075.394	28.719	28.817	0.000	0.000	645.732	703.446	650.669	710.037
1076.000	26.457	26.560	0.000	0.000	662.451	703.446	667.448	710.037
1076.546	24.280	24.352	0.000	0.000	676.302	703.446	681.347	710.037
1077.000	23.967	24.021	0.000	0.000	687.254	703.446	692.328	710.037
1077.376	23.861	23.903	0.000	0.000	696.245	703.446	701.338	710.037
1078.000	23.820	23.871	0.000	0.000	711.122	703.446	716.243	710.037

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

* * * D E S B R O C E S * * *

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1078.443	23.339	23.380	0.000	0.000	721.568	703.446	726.710	710.037
1079.000	22.783	22.815	0.000	0.000	734.413	703.446	739.575	710.038
1079.536	22.343	22.367	0.000	0.000	746.507	703.446	751.684	710.038
1080.000	22.168	22.188	0.000	0.000	756.833	703.446	762.021	710.038
1080.368	21.761	21.779	0.000	0.000	764.916	703.446	770.111	710.038
1081.000	21.994	22.010	0.000	0.000	778.743	703.446	783.948	710.038
1082.000	22.387	22.403	0.000	0.000	800.933	703.446	806.155	710.038
1083.000	22.818	22.831	0.000	0.000	823.536	703.446	828.772	710.038
1084.000	23.282	23.294	0.000	0.000	846.586	703.446	851.834	710.038
1085.000	23.787	23.798	0.000	0.000	870.121	703.446	875.380	710.038
1086.000	24.328	24.337	0.000	0.000	894.178	703.446	899.447	710.038
1087.000	24.937	24.946	0.000	0.000	918.811	703.446	924.089	710.038
1088.000	25.585	25.594	0.000	0.000	944.072	703.446	949.359	710.038
1089.000	26.301	26.310	0.001	0.001	970.015	703.446	975.311	710.038
1090.000	26.376	26.385	0.000	0.000	996.354	703.447	1001.659	710.038
1091.000	39.576	39.880	0.000	0.000	1029.330	703.447	1034.791	710.038
1092.000	38.551	38.856	0.000	0.000	1068.394	703.447	1074.160	710.038
1093.000	37.612	37.866	0.000	0.000	1106.475	703.447	1112.521	710.039
1094.000	36.710	36.987	0.000	0.000	1143.636	703.447	1149.947	710.039
1095.000	35.842	36.076	0.000	0.000	1179.912	703.448	1186.479	710.039
1096.000	35.007	35.259	0.000	0.000	1215.337	703.448	1222.146	710.039
1097.000	34.210	34.421	0.000	0.000	1249.945	703.448	1256.986	710.039
1097.018	34.196	34.407	0.000	0.000	1250.561	703.448	1257.605	710.039
1098.000	34.756	34.988	0.000	0.000	1284.417	703.448	1291.678	710.039
1098.418	35.006	35.215	0.000	0.000	1298.997	703.448	1306.350	710.039
1099.000	35.367	35.572	0.000	0.000	1319.476	703.448	1326.949	710.039
1099.357	35.597	35.815	0.000	0.000	1332.143	703.448	1339.692	710.039
1099.686	35.815	36.029	0.000	0.000	1343.890	703.448	1351.510	710.039
1100.000	36.027	36.238	0.000	0.000	1355.169	703.448	1362.856	710.039
1100.005	36.030	36.241	0.000	0.000	1355.349	703.448	1363.037	710.039
1101.000	36.736	36.930	0.000	0.000	1391.551	703.448	1399.440	710.039
1101.405	37.039	37.252	0.000	0.000	1406.490	703.448	1414.462	710.039
1101.520	37.127	37.348	0.000	0.000	1410.755	703.448	1418.751	710.039
1102.000	37.501	37.726	0.000	0.000	1428.665	703.448	1436.769	710.039
1102.232	37.687	37.913	0.000	0.000	1437.387	703.448	1445.543	710.039
1102.443	37.858	38.081	0.000	0.000	1445.357	703.448	1453.560	710.039
1102.489	37.896	38.117	0.000	0.000	1447.099	703.448	1455.313	710.039

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1102.785	38.142	38.357	0.000	0.000	1458.353	703.448	1466.631	710.039
1102.810	38.164	38.378	0.000	0.000	1459.307	703.448	1467.590	710.039
1102.843	38.324	38.540	0.000	0.000	1460.569	703.448	1468.860	710.039
1102.922	38.689	38.907	0.000	0.000	1463.611	703.448	1471.919	710.039
1102.970	38.838	39.056	0.000	0.000	1465.472	703.448	1473.790	710.039
1103.000	38.938	39.157	0.000	0.000	1466.638	703.448	1474.963	710.039
1103.038	39.067	39.286	0.000	0.000	1468.120	703.448	1476.453	710.039
1103.090	39.248	39.467	0.000	0.000	1470.157	703.448	1478.501	710.039
1103.101	39.286	39.506	0.000	0.000	1470.589	703.448	1478.935	710.039
1103.208	39.668	39.888	0.000	0.000	1474.813	703.448	1483.183	710.039
1103.628	39.444	39.649	0.000	0.000	1491.426	703.448	1499.886	710.039
1103.707	39.219	39.418	0.000	0.000	1494.533	703.448	1503.009	710.039
1103.938	38.562	38.749	0.000	0.000	1503.517	703.448	1512.037	710.039
1104.000	38.385	38.569	0.000	0.000	1505.902	703.448	1514.434	710.039
1104.116	38.056	38.232	0.000	0.000	1510.336	703.448	1518.888	710.039
1104.308	37.510	37.676	0.000	0.000	1517.590	703.448	1526.176	710.039
1104.365	37.431	37.591	0.000	0.000	1519.726	703.448	1528.321	710.039
1104.961	36.875	37.011	0.000	0.000	1541.869	703.448	1550.552	710.039
1105.000	36.861	36.994	0.000	0.000	1543.307	703.448	1551.995	710.039
1105.055	36.842	36.972	0.000	0.000	1545.334	703.448	1554.029	710.039
1105.203	36.791	36.918	0.000	0.000	1550.783	703.448	1559.497	710.039
1105.718	36.627	36.730	0.000	0.000	1569.688	703.448	1578.462	710.039
1105.772	36.610	36.710	0.000	0.000	1571.665	703.448	1580.444	710.039
1106.000	36.542	36.634	0.000	0.000	1580.005	703.448	1588.806	710.039
1106.273	36.462	36.544	0.000	0.000	1589.970	703.448	1598.795	710.039
1106.507	36.479	36.547	0.000	0.000	1598.504	703.448	1607.346	710.039
1107.000	36.572	36.627	0.000	0.000	1616.511	703.448	1625.384	710.039
1107.173	36.606	36.661	0.000	0.000	1622.841	703.448	1631.723	710.039
1107.251	36.619	36.669	0.000	0.000	1625.697	703.448	1634.583	710.039
1107.813	36.715	36.750	0.000	0.000	1646.304	703.448	1655.213	710.039
1107.997	36.746	36.776	0.000	0.000	1653.062	703.448	1661.978	710.039
1108.481	36.824	36.843	0.000	0.000	1670.866	703.448	1679.794	710.039
1108.734	36.914	36.929	0.000	0.000	1680.193	703.448	1689.126	710.039
1108.825	36.953	36.968	0.000	0.000	1683.554	703.448	1692.488	710.039
1109.000	37.014	37.029	0.000	0.000	1690.026	703.448	1698.963	710.039
1109.455	37.178	37.192	0.000	0.000	1706.905	703.448	1715.848	710.039
1109.895	37.342	37.356	0.000	0.000	1723.299	703.448	1732.249	710.039

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1110.000	37.370	37.384	0.000	0.000	1727.222	703.448	1736.173	710.039
1110.152	37.431	37.444	0.000	0.000	1732.907	703.448	1741.860	710.039
1110.817	37.843	37.856	0.000	0.000	1757.935	703.448	1766.897	710.039
1111.000	37.972	37.986	0.000	0.000	1764.872	703.448	1773.836	710.039
1111.397	38.163	38.176	0.000	0.000	1779.985	703.448	1788.955	710.039
1111.559	38.149	38.162	0.000	0.000	1786.166	703.448	1795.138	710.039
1112.000	36.074	36.086	0.000	0.000	1802.532	703.448	1811.509	710.039
1112.021	35.978	35.990	0.000	0.000	1803.289	703.448	1812.266	710.039
1112.176	35.737	35.749	0.000	0.000	1808.847	703.448	1817.826	710.039
1113.000	34.497	34.507	0.000	0.000	1837.783	703.448	1846.772	710.039
1113.237	34.149	34.160	0.000	0.000	1845.918	703.448	1854.909	710.039
1113.363	33.967	33.977	0.000	0.000	1850.209	703.448	1859.201	710.039
1114.000	33.192	33.201	0.000	0.000	1871.599	703.448	1880.598	710.039
1114.538	32.370	32.379	0.000	0.000	1889.236	703.448	1898.239	710.039
1115.000	31.762	31.771	0.000	0.000	1904.050	703.448	1913.058	710.039
1115.296	31.382	31.390	0.000	0.000	1913.396	703.448	1922.405	710.039
1115.792	30.737	30.745	0.000	0.000	1928.801	703.448	1937.815	710.039
1116.000	30.471	30.478	0.000	0.000	1935.167	703.448	1944.182	710.039
1116.028	30.434	30.441	0.000	0.000	1936.019	703.448	1945.035	710.039
1117.000	29.176	29.183	0.000	0.000	1964.990	703.448	1974.013	710.040
1117.069	29.089	29.097	0.000	0.000	1967.000	703.448	1976.023	710.040
1117.118	29.036	29.043	0.000	0.000	1968.424	703.448	1977.448	710.040
1117.719	29.383	29.390	0.000	0.000	1985.979	703.448	1995.007	710.040
1118.000	29.551	29.558	0.000	0.000	1994.259	703.448	2003.289	710.040
1118.029	29.569	29.576	0.000	0.000	1995.116	703.448	2004.147	710.040
1118.623	29.881	29.888	0.000	0.000	2012.773	703.448	2021.808	710.040
1119.000	30.006	30.013	0.000	0.000	2024.062	703.448	2033.099	710.040
1119.178	30.067	30.077	0.000	0.000	2029.409	703.448	2038.447	710.040
1119.443	30.159	30.169	0.000	0.000	2037.388	703.448	2046.430	710.040
1119.698	30.250	30.260	0.000	0.000	2045.091	703.448	2054.135	710.040
1119.944	30.339	30.349	0.000	0.000	2052.543	703.448	2061.589	710.040
1120.000	30.360	30.370	0.000	0.000	2054.243	703.448	2063.290	710.040
1120.629	30.604	30.613	0.000	0.000	2073.416	703.448	2082.469	710.040
1121.000	30.767	30.774	0.001	0.001	2084.800	703.448	2093.856	710.040
1121.774	31.126	31.135	0.000	0.000	2108.752	703.448	2117.815	710.040
1122.000	31.237	31.245	0.000	0.000	2115.799	703.448	2124.864	710.040
1122.379	30.923	30.933	0.000	0.000	2127.579	703.448	2136.647	710.040

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** D E S B R O C E S ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1122.638	31.031	31.041	0.000	0.000	2135.602	703.448	2144.672	710.040
1122.869	31.133	31.144	0.000	0.000	2142.782	703.448	2151.855	710.040
1122.974	31.181	31.192	0.000	0.000	2146.053	703.448	2155.127	710.040
1123.000	31.193	31.203	0.000	0.000	2146.864	703.448	2155.938	710.040
1123.073	31.227	31.237	0.000	0.000	2149.142	703.448	2158.218	710.040
1123.165	31.270	31.281	0.000	0.000	2152.017	703.448	2161.093	710.040
1123.251	31.311	31.321	0.000	0.000	2154.708	703.448	2163.785	710.040
1123.332	31.351	31.361	0.000	0.000	2157.246	703.448	2166.324	710.040
1123.478	31.422	31.433	0.000	0.000	2161.828	703.448	2170.908	710.040
1123.545	31.455	31.466	0.000	0.000	2163.935	703.448	2173.015	710.040
1123.730	31.549	31.560	0.000	0.000	2169.763	703.448	2178.845	710.040
1124.000	31.690	31.701	0.000	0.000	2178.300	703.448	2187.385	710.040
1124.039	31.711	31.721	0.000	0.000	2179.536	703.448	2188.622	710.040
1124.166	31.778	31.789	0.000	0.000	2183.568	703.448	2192.654	710.040
1124.276	31.762	31.773	0.000	0.000	2187.062	703.448	2196.150	710.040
1124.424	31.829	31.841	0.000	0.000	2191.768	703.448	2200.858	710.040
1124.472	31.850	31.862	0.000	0.000	2193.296	703.448	2202.387	710.040
1124.614	31.914	31.925	0.000	0.000	2197.824	703.448	2206.916	710.040
1124.623	31.917	31.929	0.000	0.000	2198.111	703.448	2207.203	710.040
1124.631	31.921	31.933	0.000	0.000	2198.366	703.448	2207.458	710.040
1124.637	31.924	31.935	0.000	0.000	2198.558	703.448	2207.650	710.040
1124.642	31.926	31.937	0.000	0.000	2198.717	703.448	2207.810	710.040
1124.647	31.928	31.939	0.000	0.000	2198.877	703.448	2207.969	710.040
1124.692	31.947	31.959	0.000	0.000	2200.314	703.448	2209.407	710.040
1124.704	31.952	31.964	0.000	0.000	2200.698	703.448	2209.791	710.040
1124.733	31.965	31.976	0.000	0.000	2201.624	703.448	2210.718	710.040
1124.768	31.980	31.991	0.000	0.000	2202.743	703.448	2211.837	710.040
1125.000	32.100	32.111	0.000	0.000	2210.177	703.448	2219.273	710.040
1125.140	32.175	32.187	0.000	0.000	2214.676	703.448	2223.774	710.040
1125.286	32.256	32.268	0.000	0.000	2219.380	703.448	2228.479	710.040
1125.366	32.302	32.313	0.000	0.000	2221.962	703.448	2231.062	710.040
1125.450	32.350	32.361	0.000	0.000	2224.677	703.448	2233.779	710.040
1126.000	32.678	32.689	0.000	0.000	2242.560	703.448	2251.667	710.040
1126.996	29.245	29.300	0.000	0.000	2273.398	703.448	2282.538	710.040
1127.550	28.769	28.821	0.000	0.000	2289.468	703.448	2298.638	710.040
1128.000	28.398	28.449	0.000	0.000	2302.330	703.448	2311.523	710.040
1128.068	28.343	28.394	0.000	0.000	2304.259	703.448	2313.456	710.040

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** D E S B R O C E S ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1129.000	27.611	27.672	0.000	0.000	2330.334	703.448	2339.583	710.040
1129.272	27.404	27.483	0.000	0.000	2337.816	703.448	2347.084	710.040
1129.785	27.017	27.093	0.000	0.000	2351.775	703.448	2361.083	710.040
1130.000	26.858	26.933	0.000	0.000	2357.566	703.448	2366.891	710.040
1130.493	20.501	20.654	0.000	0.000	2369.240	703.448	2378.621	710.040
1131.000	20.145	20.311	0.000	0.000	2379.544	703.448	2389.006	710.040
1131.040	20.117	20.287	0.000	0.000	2380.349	703.448	2389.818	710.040
1131.505	19.801	19.967	0.000	0.000	2389.630	703.448	2399.177	710.040
1132.000	17.269	17.474	0.000	0.000	2398.805	703.448	2408.443	710.040
1133.000	15.395	15.578	0.000	0.000	2415.137	703.448	2424.969	710.040
1133.019	15.368	15.551	0.000	0.000	2415.429	703.448	2425.265	710.040
1133.113	15.299	15.477	0.000	0.000	2416.870	703.448	2426.723	710.040
1133.300	15.163	15.331	0.000	0.000	2419.718	703.448	2429.604	710.040
1133.672	14.874	15.023	0.000	0.000	2425.305	703.448	2435.250	710.040
1133.857	14.705	14.845	0.000	0.000	2428.041	703.448	2438.013	710.040
1134.000	14.576	14.708	0.000	0.000	2430.135	703.448	2440.126	710.040
1134.042	14.538	14.668	0.000	0.000	2430.747	703.448	2440.742	710.040
1134.226	14.373	14.493	0.000	0.000	2433.406	703.448	2443.425	710.040
1134.409	14.211	14.322	0.000	0.000	2436.022	703.448	2446.062	710.040
1134.773	13.890	13.983	0.000	0.000	2441.136	703.448	2451.213	710.040
1134.886	13.792	13.879	0.000	0.000	2442.700	703.448	2452.788	710.040
1135.000	13.878	13.961	0.001	0.001	2444.277	703.448	2454.374	710.040
1135.313	14.122	14.200	0.000	0.000	2448.659	703.448	2458.782	710.040
1135.670	14.397	14.468	0.000	0.000	2453.750	703.448	2463.899	710.040
1136.000	14.656	14.722	0.000	0.000	2458.544	703.448	2468.715	710.040
1136.287	14.886	14.948	0.000	0.000	2462.783	703.448	2472.973	710.040
1136.428	15.001	15.060	0.000	0.000	2464.890	703.448	2475.089	710.040
1136.462	15.029	15.087	0.000	0.000	2465.401	703.448	2475.601	710.040
1136.982	15.463	15.512	0.000	0.000	2473.328	703.448	2483.557	710.040
1137.000	15.478	15.526	0.000	0.000	2473.607	703.448	2483.836	710.040
1137.154	15.609	15.655	0.000	0.000	2476.001	703.448	2486.237	710.040
1137.412	15.833	15.878	0.000	0.000	2480.057	703.448	2490.305	710.040
1137.584	15.978	16.021	0.000	0.000	2482.792	703.448	2493.048	710.040
1137.868	16.220	16.258	0.001	0.001	2487.365	703.448	2497.632	710.040
1138.000	16.335	16.374	0.000	0.000	2489.513	703.448	2499.786	710.040
1138.018	16.351	16.389	0.000	0.000	2489.807	703.448	2500.080	710.040
1138.194	16.506	16.543	0.000	0.000	2492.699	703.448	2502.978	710.040

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1138.283	16.586	16.622	0.000	0.000	2494.171	703.448	2504.454	710.040
1139.000	17.250	17.272	0.000	0.000	2506.301	703.448	2516.605	710.040
1139.132	17.376	17.399	0.000	0.000	2508.587	703.448	2518.894	710.040
1139.179	17.422	17.444	0.000	0.000	2509.405	703.448	2519.712	710.040
1140.000	18.243	18.256	0.000	0.000	2524.045	703.448	2534.367	710.040
1140.096	18.343	18.354	0.000	0.000	2525.801	703.448	2536.124	710.040
1140.707	18.998	19.009	0.000	0.000	2537.209	703.448	2547.539	710.040
1141.000	19.798	19.807	0.000	0.000	2542.893	703.448	2553.225	710.040
1141.028	19.876	19.884	0.000	0.000	2543.448	703.448	2553.781	710.040
1142.000	22.760	22.812	0.000	0.000	2564.169	703.448	2574.532	710.040
1142.400	24.042	24.226	0.000	0.000	2573.530	703.448	2583.939	710.040
1143.000	25.327	25.625	0.000	0.000	2588.341	703.448	2598.894	710.040
1143.911	22.824	23.092	0.000	0.000	2610.273	703.448	2621.085	710.040
1144.000	17.985	18.028	0.000	0.000	2612.089	703.448	2622.915	710.040
1145.000	21.983	22.111	0.000	0.000	2632.074	703.448	2642.984	710.040
1145.517	21.556	21.711	0.000	0.000	2643.328	703.448	2654.312	710.040
1146.000	19.547	19.754	1.606	1.645	2653.255	703.836	2664.326	710.437
1146.836	18.948	19.154	1.667	1.714	2669.346	705.204	2680.589	711.842
1146.942	18.873	19.079	1.669	1.717	2671.350	705.381	2682.616	712.024
1147.000	18.834	19.040	1.667	1.714	2672.444	705.478	2683.721	712.123
1147.006	18.831	19.037	1.666	1.715	2672.557	705.488	2683.835	712.133
1147.066	18.790	18.996	1.665	1.714	2673.685	705.588	2684.976	712.236
1147.095	18.771	18.976	1.664	1.713	2674.230	705.636	2685.527	712.286
1147.213	18.691	18.895	1.660	1.707	2676.440	705.832	2687.761	712.488
1147.231	18.681	18.886	1.660	1.710	2676.777	705.862	2688.101	712.518
1147.492	18.533	18.737	1.653	1.705	2681.633	706.294	2693.011	712.964
1147.745	18.382	18.587	1.650	1.704	2686.303	706.712	2697.733	713.395
1147.988	18.236	18.440	1.649	1.704	2690.752	707.113	2702.231	713.809
1148.000	18.228	18.433	1.649	1.704	2690.971	707.133	2702.453	713.830
1148.224	18.092	18.296	1.648	1.704	2695.039	707.502	2706.566	714.212
1148.366	18.007	18.211	1.647	1.704	2697.602	707.736	2709.158	714.454
1148.416	17.977	18.181	1.646	1.704	2698.501	707.818	2710.068	714.539
1148.470	17.945	18.151	1.645	1.703	2699.471	707.907	2711.049	714.631
1148.795	17.751	17.963	1.643	1.703	2705.272	708.441	2716.917	715.184
1148.988	17.633	17.847	1.641	1.694	2708.686	708.758	2720.373	715.512
1149.000	17.627	17.842	1.641	1.696	2708.898	708.778	2720.587	715.532
1149.033	17.611	17.829	1.641	1.703	2709.479	708.832	2721.176	715.588

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1149.208	17.528	17.750	1.643	1.705	2712.554	709.119	2724.289	715.887
1149.402	17.441	17.668	1.644	1.707	2715.946	709.438	2727.724	716.218
1149.494	17.399	17.629	1.644	1.709	2717.548	709.589	2729.348	716.375
1149.699	17.303	17.537	1.646	1.712	2721.106	709.927	2732.952	716.725
1149.914	17.202	17.441	1.647	1.713	2724.815	710.281	2736.713	717.094
1150.000	17.160	17.401	1.648	1.714	2726.292	710.422	2738.211	717.241
1150.829	16.860	17.117	1.611	1.676	2740.394	711.773	2752.519	718.646
1150.870	16.816	17.079	1.650	1.721	2741.084	711.840	2753.220	718.716
1150.934	16.814	17.079	1.650	1.722	2742.160	711.945	2754.313	718.826
1150.998	16.812	17.079	1.650	1.722	2743.236	712.051	2755.406	718.936
1151.261	16.801	17.074	1.650	1.724	2747.656	712.485	2759.897	719.389
1151.394	16.791	17.068	1.650	1.725	2749.890	712.704	2762.167	719.619
1151.461	16.785	17.064	1.650	1.724	2751.015	712.815	2763.311	719.734
1151.529	16.778	17.059	1.649	1.725	2752.156	712.927	2764.471	719.852
1152.000	16.717	17.010	1.649	1.726	2760.044	713.704	2772.494	720.664
1152.724	18.472	18.712	0.000	0.000	2772.783	714.301	2785.425	721.289
1153.000	18.518	18.749	0.000	0.000	2777.888	714.301	2790.595	721.289
1154.000	17.157	17.464	1.469	1.552	2795.725	715.035	2808.702	722.065
1154.654	18.367	18.664	0.000	0.000	2807.342	715.515	2820.516	722.573
1155.000	18.171	18.443	0.000	0.000	2813.663	715.515	2826.935	722.573
1156.000	18.397	18.693	0.000	0.000	2831.947	715.515	2845.503	722.573
1156.604	18.853	19.180	0.000	0.000	2843.196	715.515	2856.941	722.573
1157.000	19.163	19.522	0.000	0.000	2850.723	715.515	2864.604	722.573
1158.000	19.929	20.418	0.000	0.000	2870.269	715.515	2884.573	722.573
1159.000	20.561	21.120	0.000	0.000	2890.515	715.515	2905.342	722.573
1160.000	21.179	21.885	0.000	0.000	2911.385	715.515	2926.845	722.573
1161.000	21.841	22.615	0.000	0.000	2932.895	715.515	2949.094	722.573
1162.000	22.487	23.411	0.000	0.000	2955.059	715.515	2972.107	722.573
1163.000	22.954	23.763	0.000	0.000	2977.780	715.515	2995.694	722.573
1164.000	23.412	24.306	0.000	0.000	3000.963	715.515	3019.729	722.573
1165.000	23.938	24.743	0.000	0.000	3024.638	715.515	3044.253	722.573
1166.000	24.405	25.293	0.000	0.000	3048.809	715.515	3069.271	722.573
1167.000	24.952	25.726	0.000	0.000	3073.487	715.515	3094.781	722.573
1168.000	25.475	26.278	0.000	0.000	3098.701	715.515	3120.783	722.573
1169.000	26.022	26.713	0.000	0.000	3124.449	715.516	3147.278	722.573
1170.000	26.548	27.262	0.000	0.000	3150.734	715.516	3174.266	722.573
1171.000	27.043	27.676	0.000	0.000	3177.529	715.516	3201.735	722.573

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1172.000	27.439	28.161	0.000	0.000	3204.770	715.516	3229.654	722.573
1173.000	27.199	28.099	0.000	0.000	3232.089	715.516	3257.784	722.573
1174.000	27.073	28.312	0.000	0.000	3259.225	715.516	3285.990	722.573
1175.000	26.448	27.751	0.000	0.000	3285.985	715.516	3314.022	722.573
1176.000	25.879	27.702	0.000	0.000	3312.149	715.516	3341.748	722.574
1177.000	25.312	27.081	0.000	0.000	3337.744	715.516	3369.140	722.574
1178.000	24.406	26.473	0.000	0.000	3362.602	715.516	3395.917	722.574
1179.000	23.240	25.300	0.000	0.000	3386.425	715.516	3421.804	722.574
1180.000	22.135	24.427	0.000	0.000	3409.113	715.516	3446.667	722.574
1181.000	21.047	23.139	3.452	3.894	3430.704	717.242	3470.450	724.521
1182.000	19.585	21.839	5.133	6.106	3451.020	721.535	3492.938	729.520
1183.000	18.349	20.182	6.220	6.865	3469.987	727.211	3513.949	736.006
1184.000	16.906	18.734	7.430	8.558	3487.614	734.037	3533.407	743.717
1185.000	14.580	15.984	9.710	10.325	3503.357	742.607	3550.766	753.158
1186.000	12.423	13.710	11.819	12.628	3516.858	753.372	3565.613	764.635
1187.000	9.948	10.473	13.680	14.298	3528.044	766.122	3577.705	778.098
1188.000	0.023	0.025	15.380	16.219	3533.029	780.651	3582.954	793.357
1189.000	0.000	0.000	16.305	16.772	3533.041	796.494	3582.967	809.853
1190.000	0.000	0.000	17.257	17.758	3533.041	813.275	3582.967	827.118
1191.000	0.000	0.000	18.337	18.475	3533.041	831.071	3582.967	845.235
1192.000	0.000	0.000	19.843	20.003	3533.041	850.161	3582.967	864.474
1193.000	0.000	0.000	19.524	19.633	3533.041	869.845	3582.967	884.292
1194.000	0.000	0.000	19.151	19.234	3533.041	889.183	3582.967	903.725
1195.000	0.000	0.000	19.072	19.194	3533.041	908.294	3582.967	922.939
1196.000	0.000	0.000	18.987	19.243	3533.041	927.324	3582.967	942.158
1197.000	0.000	0.000	18.564	18.780	3533.041	946.099	3582.967	961.169
1198.000	0.000	0.000	18.257	18.595	3533.041	964.509	3582.967	979.857
1199.000	0.000	0.000	17.323	17.715	3533.041	982.300	3582.967	998.011
1200.000	9.658	11.186	16.459	17.121	3537.870	999.191	3588.560	1015.429
1201.000	10.741	12.093	15.223	15.722	3548.070	1015.031	3600.200	1031.851
1202.000	11.775	13.305	14.035	14.761	3559.327	1029.660	3612.899	1047.092
1203.000	13.130	14.474	12.520	13.042	3571.780	1042.938	3626.788	1060.994
1204.000	14.395	15.997	11.096	11.763	3585.543	1054.746	3642.023	1073.397
1205.000	16.080	17.437	9.274	9.781	3600.780	1064.931	3658.741	1084.169
1206.000	17.702	19.356	7.513	8.211	3617.671	1073.325	3677.137	1093.165
1207.000	19.151	20.552	6.053	6.586	3636.097	1080.107	3697.091	1100.563
1208.000	20.502	22.183	4.851	5.514	3655.924	1085.559	3718.459	1106.613

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1209.000	21.799	23.263	2.455	2.881	3677.075	1089.212	3741.182	1110.810
1210.000	22.314	23.798	0.000	0.000	3699.131	1090.439	3764.713	1112.251
1211.000	23.075	24.316	0.000	0.000	3721.826	1090.439	3788.770	1112.251
1212.000	23.804	25.176	0.000	0.000	3745.265	1090.439	3813.516	1112.251
1213.000	24.399	25.569	0.000	0.000	3769.367	1090.439	3838.889	1112.251
1213.365	24.608	25.780	0.000	0.000	3778.310	1090.440	3848.260	1112.251
1214.000	25.069	26.371	0.000	0.000	3794.083	1090.440	3864.818	1112.251
1215.000	25.476	26.448	0.000	0.000	3819.355	1090.440	3891.228	1112.251
1215.279	25.615	26.522	0.000	0.000	3826.482	1090.440	3898.617	1112.251
1216.000	26.092	26.881	0.000	0.000	3845.123	1090.440	3917.869	1112.251
1217.000	25.811	26.536	0.000	0.000	3871.074	1090.440	3944.577	1112.251
1217.158	25.762	26.491	0.000	0.000	3875.148	1090.440	3948.766	1112.251
1218.000	25.542	26.347	0.000	0.000	3896.747	1090.440	3971.011	1112.251
1218.986	25.422	26.165	0.000	0.000	3921.873	1090.440	3996.900	1112.251
1219.000	25.422	26.165	0.000	0.000	3922.229	1090.440	3997.266	1112.251
1220.000	25.347	26.176	0.000	0.000	3947.613	1090.440	4023.436	1112.251
1220.748	24.988	25.762	0.000	0.000	3966.438	1090.440	4042.861	1112.251
1221.000	24.891	25.666	0.000	0.000	3972.723	1090.440	4049.341	1112.251
1222.000	24.489	25.356	0.000	0.000	3997.413	1090.440	4074.852	1112.251
1222.433	24.285	25.106	0.000	0.000	4007.973	1090.440	4085.777	1112.251
1223.000	24.070	24.875	0.000	0.000	4021.681	1090.440	4099.946	1112.251
1224.000	21.502	22.457	1.479	1.609	4044.467	1091.179	4123.612	1113.056
1224.030	21.375	22.324	1.530	1.659	4045.110	1091.225	4124.284	1113.105
1225.000	17.357	18.201	2.984	3.111	4063.895	1093.414	4143.939	1115.418
1225.535	15.228	16.075	3.743	3.902	4072.612	1095.213	4153.107	1117.294
1226.000	13.454	14.336	4.373	4.586	4079.280	1097.100	4160.178	1119.268
1226.149	12.910	13.762	4.539	4.735	4081.245	1097.764	4162.271	1119.962
1227.000	10.705	11.462	5.541	5.699	4091.293	1102.053	4173.004	1124.402
1227.185	10.224	10.978	5.769	5.931	4093.228	1103.100	4175.080	1125.478
1228.000	8.091	8.893	6.819	7.065	4100.692	1108.229	4183.177	1130.774
1228.625	6.415	7.079	7.683	7.864	4105.225	1112.761	4188.168	1135.439
1229.000	5.417	5.972	8.208	8.383	4107.444	1115.741	4190.615	1138.486
1229.692	3.588	3.948	9.191	9.428	4110.559	1121.761	4194.048	1144.648
1230.000	2.777	3.054	9.636	9.930	4111.539	1124.660	4195.126	1147.629
1230.818	10.418	10.953	11.170	11.355	4116.936	1133.170	4200.855	1156.335
1231.000	0.000	0.000	11.501	11.679	4117.884	1135.233	4201.852	1158.431
1232.000	0.000	0.000	11.910	12.078	4117.884	1146.939	4201.852	1170.309

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1233.000	0.000	0.000	12.268	12.358	4117.884	1159.028	4201.852	1182.527
1234.000	0.571	0.577	12.099	12.173	4118.170	1171.212	4202.140	1194.793
1235.000	2.339	2.359	10.641	10.694	4119.625	1182.582	4203.608	1206.226
1236.000	10.867	10.949	7.997	8.033	4126.228	1191.901	4210.262	1215.589
1237.000	21.041	21.167	2.901	2.911	4142.182	1197.350	4226.321	1221.061
1238.000	27.090	27.213	0.000	0.000	4166.248	1198.800	4250.511	1222.517
1239.000	30.153	30.244	0.000	0.000	4194.869	1198.800	4279.240	1222.517
1240.000	31.519	31.583	0.000	0.000	4225.705	1198.800	4310.153	1222.517
1241.000	31.500	31.561	0.000	0.000	4257.215	1198.800	4341.726	1222.517
1242.000	31.366	31.424	0.000	0.000	4288.648	1198.800	4373.218	1222.517
1243.000	31.270	31.325	0.000	0.000	4319.966	1198.800	4404.592	1222.517
1244.000	31.156	31.210	0.000	0.000	4351.179	1198.800	4435.860	1222.517
1245.000	31.038	31.087	0.000	0.000	4382.276	1198.800	4467.008	1222.517
1246.000	30.904	30.949	0.000	0.000	4413.247	1198.800	4498.026	1222.517
1247.000	30.788	30.831	0.000	0.000	4444.093	1198.800	4528.916	1222.517
1247.076	30.782	30.825	0.000	0.000	4446.432	1198.800	4531.259	1222.517
1248.000	30.727	30.766	0.000	0.000	4474.850	1198.800	4559.714	1222.517
1249.000	30.631	30.667	0.001	0.001	4505.529	1198.801	4590.430	1222.517
1249.991	30.380	30.413	0.000	0.000	4535.760	1198.801	4620.695	1222.518
1250.000	30.377	30.410	0.000	0.000	4536.033	1198.801	4620.969	1222.518
1250.997	31.786	31.817	0.000	0.000	4567.022	1198.801	4651.989	1222.518
1252.000	33.238	33.268	0.000	0.000	4599.631	1198.801	4684.630	1222.518
1252.278	33.655	33.684	0.000	0.000	4608.930	1198.801	4693.936	1222.518
1253.000	34.754	34.783	0.000	0.000	4633.625	1198.801	4718.653	1222.518
1253.378	35.339	35.368	0.000	0.000	4646.873	1198.801	4731.911	1222.518
1254.000	36.317	36.346	0.000	0.000	4669.158	1198.801	4754.214	1222.518
1254.615	37.301	37.341	0.000	0.000	4691.795	1198.801	4776.873	1222.518
1255.000	38.280	38.347	0.000	0.000	4706.345	1198.801	4791.442	1222.518
1255.759	40.286	40.485	0.000	0.000	4736.161	1198.801	4821.359	1222.518
1256.000	40.946	41.212	0.000	0.000	4745.949	1198.801	4831.204	1222.518
1256.487	42.310	42.589	0.000	0.000	4766.222	1198.801	4851.609	1222.518
1257.000	43.786	44.088	0.000	0.000	4788.306	1198.801	4873.842	1222.518
1257.854	43.651	44.065	0.000	0.000	4825.641	1198.801	4911.483	1222.518
1258.000	43.625	44.073	0.000	0.000	4832.013	1198.801	4917.917	1222.518
1259.000	43.502	43.884	0.000	0.000	4875.576	1198.801	4961.896	1222.518
1259.294	43.465	43.870	0.000	0.000	4888.361	1198.801	4974.795	1222.518
1260.000	43.459	43.994	0.000	0.000	4919.045	1198.801	5005.811	1222.518

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

*** DESBROCES ***

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1260.797	43.391	43.853	0.001	0.001	4953.654	1198.801	5040.818	1222.518
1261.000	43.391	43.856	0.000	0.000	4962.463	1198.802	5049.721	1222.518
1262.000	43.402	44.013	0.000	0.000	5005.859	1198.802	5093.655	1222.518
1262.354	43.419	43.975	0.000	0.000	5021.227	1198.802	5109.229	1222.518
1263.000	43.506	44.037	0.000	0.000	5049.304	1198.802	5137.657	1222.518
1263.952	43.625	44.294	0.000	0.000	5090.778	1198.802	5179.702	1222.518
1264.000	43.635	44.317	0.000	0.000	5092.872	1198.802	5181.829	1222.518
1265.000	43.854	44.454	0.000	0.000	5136.617	1198.802	5226.214	1222.518
1265.580	43.969	44.630	0.000	0.000	5162.086	1198.802	5252.049	1222.518
1266.000	44.089	44.843	0.000	0.000	5180.578	1198.802	5270.838	1222.518
1267.000	44.366	45.038	0.000	0.000	5224.805	1198.802	5315.779	1222.518
1267.221	44.426	45.112	0.001	0.001	5234.617	1198.802	5325.740	1222.518
1268.000	44.676	45.501	0.000	0.000	5269.322	1198.802	5361.034	1222.518
1269.000	44.766	45.496	0.000	0.000	5314.043	1198.802	5406.533	1222.518
1270.000	44.855	45.761	0.000	0.000	5358.854	1198.802	5452.162	1222.518
1271.000	45.041	45.854	0.000	0.000	5403.802	1198.802	5497.970	1222.518
1272.000	32.114	32.834	0.000	0.000	5442.380	1198.802	5537.314	1222.518
1273.000	32.162	32.816	0.000	0.000	5474.517	1198.802	5570.139	1222.518
1274.000	32.139	32.956	0.000	0.000	5506.667	1198.802	5603.025	1222.518
1275.000	32.380	33.100	0.000	0.000	5538.927	1198.802	5636.054	1222.518
1276.000	32.613	33.521	0.000	0.000	5571.423	1198.802	5669.364	1222.519
1277.000	33.084	33.903	0.000	0.000	5604.272	1198.802	5703.076	1222.519
1278.000	33.496	34.611	0.000	0.000	5637.562	1198.802	5737.333	1222.519
1279.000	33.471	34.415	0.000	0.000	5671.045	1198.802	5771.846	1222.519
1280.000	33.413	34.505	0.000	0.000	5704.487	1198.802	5806.306	1222.519
1281.000	33.359	34.276	0.000	0.000	5737.873	1198.802	5840.697	1222.519
1282.000	19.879	20.292	0.000	0.000	5764.492	1198.802	5867.981	1222.519
1283.000	33.219	34.179	0.000	0.000	5791.041	1198.802	5895.216	1222.519
1284.000	19.921	20.383	0.000	0.000	5817.611	1198.802	5922.496	1222.519
1285.000	19.891	20.263	0.000	0.000	5837.517	1198.802	5942.819	1222.519
1286.000	20.009	20.587	0.000	0.000	5857.467	1198.802	5963.244	1222.519
1287.000	19.710	20.115	0.000	0.000	5877.327	1198.802	5983.595	1222.519
1288.000	19.377	20.010	0.000	0.000	5896.871	1198.802	6003.658	1222.519
1289.000	19.068	19.526	0.000	0.000	5916.094	1198.802	6023.426	1222.519
1290.000	18.753	19.431	0.000	0.000	5935.004	1198.802	6042.904	1222.519
1291.000	18.341	18.876	0.000	0.000	5953.551	1198.802	6062.057	1222.519
1292.000	17.486	17.925	0.000	0.000	5971.464	1198.802	6080.458	1222.519

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P1: Enlace de A Casilla. Eje-1. (Glorieta)

* * * D E S B R O C E S * * *

PK inicial : 1000.000
PK final : 1295.310

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
1293.000	17.321	17.720	0.000	0.000	5988.867	1198.802	6098.280	1222.519
1294.000	17.180	17.490	0.000	0.000	6006.118	1198.802	6115.885	1222.519
1295.000	16.817	17.149	0.000	0.000	6023.117	1198.802	6133.205	1222.519
1295.310	16.692	17.030	0.000	0.000	6028.311	1198.802	6138.502	1222.519

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P4: Enlace de A Casilla. Eje-4

*** DESBROCES ***

PK inicial : 4000.000
PK final : 4240.000

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
4093.038	31.694	32.731	2.207	2.402	0.000	0.000	0.000	0.000
4093.059	31.695	32.732	2.208	2.403	0.666	0.046	0.687	0.050
4095.000	31.806	32.861	2.340	2.473	62.294	4.461	64.345	4.783
4100.000	31.122	32.346	3.460	3.632	219.615	18.962	227.362	20.045
4105.000	29.972	30.987	4.005	4.172	372.351	37.623	385.694	39.556
4110.000	29.209	30.076	4.076	4.229	520.303	57.825	538.353	60.561
4115.000	28.278	29.031	4.161	4.312	664.020	78.419	686.121	81.916
4120.000	27.396	28.103	4.308	4.471	803.205	99.593	828.956	103.875
4125.000	26.494	26.978	4.519	4.680	937.930	121.662	966.657	126.754
4130.000	25.656	25.969	4.722	4.909	1068.305	144.767	1099.025	150.726
4135.000	24.963	25.164	4.820	5.056	1194.852	168.624	1226.859	175.638
4140.000	24.238	24.406	4.986	5.276	1317.853	193.142	1350.783	201.468
4145.000	24.657	24.873	5.241	5.425	1440.091	218.711	1473.979	228.220
4150.000	25.427	25.758	5.141	5.259	1565.301	244.667	1600.557	254.929
4155.000	26.285	26.786	4.959	5.080	1694.580	269.918	1731.917	280.776
4160.000	21.662	21.757	4.321	4.464	1814.448	293.117	1853.274	304.635
4165.000	21.567	21.626	4.329	4.414	1922.523	314.742	1961.731	326.830
4170.000	21.163	21.212	4.654	4.693	2029.348	337.200	2068.825	349.598
4175.000	20.745	20.796	4.751	4.768	2134.118	360.714	2173.845	373.249
4180.000	21.690	21.749	3.474	3.492	2240.208	381.278	2280.207	393.898
4185.000	23.742	23.819	1.203	1.235	2353.788	392.972	2394.126	405.716
4190.000	23.952	24.085	0.774	0.870	2473.021	397.915	2513.887	410.979
4195.000	23.738	23.839	0.486	0.535	2592.246	401.065	2633.697	414.492
4200.000	23.547	23.712	0.330	0.413	2710.458	403.106	2752.575	416.861
4205.000	22.227	22.357	0.160	0.185	2824.892	404.330	2867.748	418.357
4210.000	22.498	22.737	0.000	0.000	2936.706	404.731	2980.481	418.820
4215.000	22.522	22.630	0.000	0.000	3049.257	404.731	3093.898	418.820
4220.000	23.431	23.514	0.000	0.000	3164.141	404.731	3209.259	418.820
4225.000	23.333	23.412	0.000	0.000	3281.050	404.731	3326.574	418.820
4230.000	24.493	24.570	0.000	0.000	3400.613	404.731	3446.528	418.820
4235.000	24.826	24.902	0.000	0.000	3523.910	404.731	3570.209	418.820
4240.000	25.183	25.259	0.000	0.000	3648.933	404.731	3695.613	418.820

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P5: Enlace de A Casilla. Eje-5

*** DESBROCES ***

PK inicial : 5000.000
PK final : 5200.000

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
5101.075	0.000	0.000	21.042	21.266	0.000	0.000	0.000	0.000
5105.000	0.000	0.000	20.594	20.753	0.000	81.712	0.000	82.462
5110.000	0.000	0.000	20.217	20.361	0.001	183.742	0.001	185.245
5110.332	0.000	0.000	20.193	20.337	0.001	190.450	0.001	192.001
5115.000	0.000	0.000	19.979	20.153	0.001	284.211	0.001	286.507
5120.000	0.000	0.000	19.749	19.992	0.001	383.529	0.001	386.869
5125.000	0.000	0.000	19.505	19.702	0.001	481.662	0.001	486.104
5130.000	0.000	0.000	19.262	19.465	0.001	578.580	0.001	584.023
5135.000	0.000	0.000	19.022	19.282	0.001	674.291	0.001	680.890
5140.000	0.000	0.000	18.799	19.159	0.001	768.842	0.001	776.992
5145.000	0.000	0.000	18.582	18.896	0.001	862.294	0.001	872.127
5150.000	0.000	0.000	18.392	18.697	0.001	954.728	0.001	966.109
5155.000	0.000	0.000	18.226	18.565	0.001	1046.273	0.001	1059.264
5160.000	0.000	0.000	18.084	18.493	0.001	1137.050	0.001	1151.908
5165.000	12.662	12.664	5.190	5.474	31.655	1195.236	31.660	1211.824
5170.000	14.877	14.885	2.762	2.942	100.501	1215.117	100.531	1232.863
5175.000	14.980	14.994	2.493	2.598	175.143	1228.255	175.227	1246.714
5180.000	15.111	15.129	2.109	2.174	250.370	1239.762	250.535	1258.643
5185.000	15.158	15.182	2.396	2.538	326.043	1251.026	326.314	1270.423
5190.000	15.168	15.199	2.533	2.704	401.859	1263.351	402.268	1283.529
5195.000	15.163	15.200	2.707	2.972	477.686	1276.451	478.264	1297.719
5200.000	15.153	15.196	2.859	3.255	553.475	1290.367	554.253	1313.287

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P6: Enlace de A Casilla. Eje-6

*** D E S B R O C E S ***

PK inicial : 6000.000
PK final : 6145.283

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
6064.616	24.886	26.742	0.000	0.000	0.000	0.000	0.000	0.000
6065.000	24.851	26.691	0.000	0.000	9.550	0.000	10.259	0.000
6070.000	24.286	26.206	0.000	0.000	132.393	0.000	142.500	0.000
6075.000	23.866	25.512	0.000	0.000	252.773	0.001	271.794	0.001
6080.000	23.317	24.803	0.000	0.000	370.732	0.001	397.580	0.001
6085.000	21.401	21.938	0.000	0.000	482.528	0.001	514.432	0.001
6090.000	18.840	18.873	0.000	0.000	583.131	0.001	616.459	0.001
6095.000	23.469	23.988	0.000	0.000	688.902	0.001	723.613	0.001
6100.000	26.000	27.516	0.000	0.000	812.572	0.001	852.373	0.001
6105.000	26.372	27.900	0.000	0.000	943.502	0.001	990.913	0.001
6105.345	26.396	27.946	0.000	0.000	952.605	0.001	1000.546	0.001
6110.000	25.360	27.043	1.311	1.475	1073.067	3.053	1128.534	3.434
6115.000	25.405	26.843	1.126	1.212	1199.979	9.147	1263.247	10.150
6120.000	25.483	26.967	0.863	0.912	1327.200	14.120	1397.771	15.459
6125.000	25.617	26.946	0.162	0.169	1454.950	16.685	1532.552	18.160
6130.000	25.235	26.654	0.000	0.000	1582.079	17.091	1666.552	18.582
6135.000	20.848	22.038	0.000	0.000	1697.286	17.091	1788.280	18.582
6140.000	20.394	21.713	0.423	0.466	1800.392	18.148	1897.658	19.746
6145.000	19.105	20.229	1.147	1.258	1899.141	22.073	2002.513	24.054
6145.283	19.054	20.171	1.168	1.291	1904.540	22.401	2008.230	24.415

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P7: Enlace de A Casilla. Eje-7

*** D E S B R O C E S ***

PK inicial : 7000.000
PK final : 7113.816

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
7021.376	10.505	10.520	0.000	0.000	0.000	0.000	0.000	0.000
7025.000	11.010	11.059	0.000	0.000	38.985	0.000	39.101	0.000
7025.229	11.067	11.114	0.000	0.000	41.513	0.000	41.639	0.000
7030.000	12.891	12.951	0.000	0.000	98.667	0.000	99.046	0.000
7030.874	13.315	13.365	0.000	0.000	110.119	0.000	110.546	0.000
7035.000	11.366	11.439	0.000	0.000	161.035	0.000	161.716	0.000
7035.273	11.217	11.286	0.000	0.000	164.118	0.000	164.818	0.000
7040.000	9.122	9.132	0.000	0.000	212.189	0.000	213.075	0.000
7040.649	8.872	8.877	0.000	0.000	218.028	0.000	218.919	0.000
7043.164	8.034	8.049	0.000	0.000	239.287	0.000	240.204	0.000
7045.000	7.478	7.493	0.000	0.000	253.527	0.000	254.472	0.000
7045.914	7.227	7.237	0.000	0.000	260.248	0.000	261.203	0.000
7050.000	6.223	6.223	0.000	0.000	287.726	0.000	288.702	0.000
7050.064	6.208	6.208	0.000	0.000	288.124	0.000	289.099	0.000
7055.000	5.310	5.317	0.000	0.000	316.550	0.000	317.543	0.000
7055.189	5.281	5.288	0.000	0.000	317.550	0.000	318.545	0.000
7059.618	4.709	4.709	0.000	0.000	339.673	0.000	340.684	0.000
7059.628	20.038	20.044	0.000	0.000	339.797	0.000	340.808	0.000
7060.000	19.979	19.984	0.000	0.000	347.240	0.000	348.253	0.000
7065.000	19.200	19.207	0.000	0.000	445.187	0.000	446.230	0.000
7065.292	19.156	19.164	0.000	0.000	450.787	0.000	451.832	0.000
7070.000	18.601	18.636	0.000	0.000	539.666	0.000	540.815	0.000
7070.306	18.567	18.605	0.000	0.000	545.353	0.000	546.512	0.000
7075.000	18.115	18.208	0.000	0.000	631.445	0.000	632.913	0.000
7075.322	18.085	18.183	0.000	0.000	637.273	0.000	638.772	0.000
7080.000	17.732	17.912	0.000	0.000	721.051	0.000	723.198	0.000
7080.338	17.709	17.885	0.000	0.000	727.040	0.000	729.248	0.000
7085.000	17.418	17.561	0.000	0.000	808.920	0.000	811.872	0.000
7090.000	17.117	17.234	0.000	0.000	895.256	0.000	898.858	0.000
7095.000	16.833	16.936	0.000	0.000	980.131	0.000	984.281	0.000
7100.000	16.568	16.665	0.000	0.000	1063.635	0.000	1068.283	0.000
7105.000	16.339	16.428	0.000	0.000	1145.903	0.001	1151.017	0.001
7110.000	16.116	16.205	0.000	0.000	1227.041	0.001	1232.600	0.001
7113.816	15.953	16.047	0.000	0.000	1288.229	0.001	1294.137	0.001

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P8: Enlace de A Casilla. Eje-8

* * * D E S B R O C E S * * *

PK inicial : 8000.000
PK final : 8113.572

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
8000.000	15.743	16.686	2.205	2.400	0.000	0.000	0.000	0.000
8005.000	14.745	15.370	2.088	2.169	76.220	10.734	80.139	11.423
8010.000	15.008	15.491	0.754	0.809	150.602	17.839	157.290	18.869
8010.000	12.846	13.284	0.754	0.809	150.602	17.839	157.290	18.869
8015.000	13.610	13.952	0.000	0.000	216.742	19.724	225.380	20.893
8020.000	13.623	13.965	0.000	0.000	284.822	19.724	295.170	20.893
8025.000	13.645	13.879	0.000	0.000	352.991	19.724	364.779	20.893
8030.000	13.686	13.858	0.000	0.000	421.318	19.724	434.121	20.893
8035.000	13.754	13.914	0.000	0.000	489.920	19.724	503.551	20.893
8040.000	13.835	14.033	0.000	0.000	558.892	19.724	573.417	20.893
8040.000	15.670	15.909	0.000	0.000	558.892	19.724	573.417	20.893
8045.000	15.445	15.574	0.000	0.000	636.681	19.724	652.124	20.893
8047.280	15.335	15.472	0.000	0.000	671.769	19.724	687.516	20.893
8050.000	15.256	15.457	0.000	0.000	713.373	19.724	729.579	20.893
8050.217	15.287	15.476	0.000	0.000	716.687	19.724	732.936	20.893
8055.000	15.917	16.153	0.000	0.000	791.310	19.724	808.576	20.893
8055.181	16.011	16.229	0.000	0.000	794.200	19.724	811.507	20.893
8058.814	18.141	18.191	0.000	0.000	856.239	19.724	874.031	20.893
8060.000	18.432	18.468	0.000	0.000	877.926	19.724	895.770	20.893
8060.237	18.465	18.498	0.000	0.000	882.299	19.724	900.151	20.893
8065.000	19.248	19.257	0.000	0.000	972.114	19.724	990.066	20.893
8065.392	19.298	19.305	0.000	0.000	979.669	19.724	997.624	20.893
8070.000	20.175	20.259	0.000	0.000	1070.615	19.724	1088.779	20.893
8070.818	20.055	20.139	0.000	0.000	1087.069	19.724	1105.301	20.893
8075.000	18.725	18.833	0.000	0.000	1168.158	19.724	1186.791	20.893
8080.000	22.946	22.950	0.000	0.000	1272.337	19.724	1291.248	20.893
8080.219	23.018	23.022	0.000	0.000	1277.370	19.724	1296.282	20.893
8085.000	22.007	22.017	0.000	0.000	1385.002	19.724	1403.949	20.893
8085.141	21.902	21.912	0.000	0.000	1388.098	19.724	1407.046	20.893
8090.000	18.751	18.791	0.000	0.000	1486.863	19.724	1505.935	20.893
8090.196	18.580	18.625	0.000	0.000	1490.522	19.724	1509.602	20.893
8092.197	26.261	27.046	0.000	0.000	1535.385	19.724	1555.296	20.893

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P10: Enlace de A Casilla. Eje-10

* * * D E S B R O C E S * * *

PK inicial : 10000.000
PK final : 10129.278

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
10025.392	0.000	0.000	15.688	16.203	0.000	0.000	0.000	0.000
10030.000	0.000	0.000	15.065	15.569	0.000	70.854	0.000	73.202
10035.000	0.000	0.000	17.180	17.518	0.000	151.465	0.000	155.921
10040.000	0.000	0.000	17.956	18.504	0.000	239.305	0.000	245.976
10045.000	0.000	0.000	18.377	18.675	0.000	330.137	0.000	338.922
10050.000	0.000	0.000	16.101	16.433	0.000	416.332	0.000	426.690
10055.000	0.000	0.000	14.882	15.085	0.000	493.791	0.000	505.483
10060.000	0.000	0.000	13.932	14.248	0.000	565.826	0.000	578.813
10065.000	0.000	0.000	13.114	13.311	0.000	633.440	0.000	647.709
10070.000	0.000	0.000	12.473	12.700	0.000	697.407	0.000	712.734
10075.000	0.000	0.000	12.006	12.172	0.000	758.604	0.000	774.912
10080.000	0.000	0.000	11.582	11.783	0.000	817.574	0.000	834.798
10085.000	0.000	0.000	11.419	11.565	0.000	875.076	0.000	893.168
10090.000	0.000	0.000	11.310	11.546	0.000	931.900	0.000	950.945
10095.000	0.000	0.000	11.118	11.323	0.000	987.970	0.000	1008.117
10100.000	0.000	0.000	10.985	11.283	0.000	1043.226	0.000	1064.634
10105.000	0.000	0.000	10.382	10.488	0.000	1096.643	0.000	1119.061
10110.000	0.000	0.000	10.079	10.178	0.000	1147.796	0.000	1170.724
10115.000	0.000	0.000	9.701	9.778	0.000	1197.246	0.000	1220.613
10120.000	0.000	0.000	9.342	9.398	0.000	1244.852	0.000	1268.553
10125.000	0.000	0.000	9.050	9.096	0.000	1290.831	0.000	1314.787
10129.277	0.000	0.000	8.749	8.777	0.000	1328.893	0.000	1353.007

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P11: Enlace de A Casilla. Eje-11

*** DESBROCES ***

PK inicial : 11000.000
PK final : 11119.248

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
11000.000	0.000	0.000	8.913	8.920	0.000	0.000	0.000	0.000
11005.000	0.000	0.000	3.500	3.500	0.000	31.032	0.000	31.052
11010.000	0.000	0.000	3.502	3.503	0.000	48.537	0.000	48.559
11015.000	0.000	0.000	3.509	3.510	0.000	66.065	0.000	66.089
11020.000	0.000	0.000	3.518	3.519	0.000	83.633	0.000	83.659
11025.000	0.000	0.000	3.529	3.530	0.000	101.252	0.000	101.280
11030.000	0.000	0.000	3.555	3.555	0.000	118.961	0.000	118.991
11035.000	0.000	0.000	3.618	3.618	0.000	136.892	0.000	136.925
11040.000	0.000	0.000	3.695	3.696	0.000	155.175	0.000	155.211
11045.000	0.000	0.000	3.852	3.853	0.000	174.043	0.000	174.083
11050.000	0.000	0.000	4.117	4.118	0.000	193.966	0.000	194.010
11055.000	0.000	0.000	4.480	4.481	0.000	215.460	0.000	215.509
11056.000	0.000	0.000	4.558	4.560	0.000	219.979	0.000	220.030
11058.000	0.000	0.000	4.746	4.747	0.000	229.283	0.000	229.337
11060.000	0.000	0.000	4.953	4.955	0.000	238.981	0.000	239.039
11062.000	0.000	0.000	5.232	5.234	0.000	249.165	0.000	249.227
11064.000	0.000	0.000	5.616	5.618	0.000	260.013	0.000	260.079
11065.000	0.000	0.000	5.809	5.811	0.000	265.725	0.000	265.794
11066.000	0.000	0.000	6.025	6.027	0.000	271.642	0.000	271.713
11068.000	0.000	0.000	6.601	6.606	0.000	284.267	0.000	284.347
11070.000	0.000	0.000	7.262	7.293	0.000	298.130	0.000	298.246
11072.000	0.000	0.000	7.883	7.935	0.000	313.275	0.000	313.474
11074.000	0.000	0.000	8.507	8.578	0.000	329.665	0.000	329.987
11075.000	0.000	0.000	8.932	9.001	0.000	338.384	0.000	338.776
11076.000	0.000	0.000	9.350	9.442	0.000	347.525	0.000	347.997
11078.000	0.000	0.000	10.190	10.305	0.000	367.066	0.000	367.744
11080.000	0.000	0.000	11.151	11.274	0.000	388.407	0.000	389.323
11082.000	0.000	0.000	12.111	12.261	0.000	411.669	0.000	412.859
11084.000	0.000	0.000	13.417	13.802	0.000	437.198	0.000	438.922
11085.000	0.000	0.000	13.682	14.143	0.000	450.748	0.000	452.894
11086.000	0.000	0.000	13.962	14.887	0.000	464.570	0.000	467.409
11088.000	0.000	0.000	14.753	15.662	0.000	493.284	0.000	497.957
11090.000	0.000	0.000	15.856	16.737	0.000	523.893	0.000	530.356
11092.000	0.000	0.000	14.294	14.956	0.000	554.043	0.000	562.049
11094.000	0.000	0.000	13.236	14.004	0.000	581.573	0.000	591.010
11095.000	0.000	0.000	12.731	13.404	0.000	594.557	0.000	604.714
11096.000	0.095	0.105	12.309	13.187	0.048	607.077	0.053	618.009

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P11: Enlace de A Casilla. Eje-11

*** DESBROCES ***

PK inicial : 11000.000
PK final : 11119.248

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
11098.000	1.377	1.447	10.454	11.357	1.520	629.839	1.604	642.553
11098.928	1.976	2.067	16.134	17.051	3.076	642.176	3.235	655.735

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P13: Enlace de A Casilla. Eje-13

* * * D E S B R O C E S * * *

PK inicial : 13000.000
PK final : 13086.250

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
13022.184	18.010	19.344	0.000	0.000	0.000	0.000	0.000	0.000
13025.000	17.071	18.462	1.750	2.342	49.394	2.464	53.232	3.297
13025.849	16.776	18.088	2.330	2.840	63.762	4.196	68.747	5.497
13030.000	15.301	16.536	4.784	5.522	130.338	18.961	140.609	22.853
13030.493	15.176	16.366	4.849	5.528	137.851	21.335	148.719	25.577
13035.000	15.911	17.145	5.459	6.272	207.905	44.565	224.235	52.169
13035.102	15.896	17.121	5.444	6.246	209.527	45.121	225.982	52.807
13039.677	15.275	16.416	5.006	5.736	280.833	69.027	302.698	80.215
13040.000	15.227	16.383	4.995	5.759	285.759	70.642	307.995	82.072
13044.217	13.746	14.690	5.122	5.679	346.847	91.973	373.512	106.191
13045.000	13.513	14.464	5.138	5.781	357.519	95.990	384.925	110.677
13048.709	12.818	13.646	5.089	5.598	406.348	114.955	437.055	131.778
13050.000	12.651	13.499	5.021	5.649	422.788	121.480	454.577	139.038
13050.934	12.432	13.251	5.016	5.572	434.502	126.168	467.070	144.279
13055.000	11.474	12.275	4.951	5.540	483.102	146.430	518.965	166.870
13055.348	11.360	12.152	4.952	5.522	487.075	148.153	523.216	168.794
13059.721	10.035	10.810	4.951	5.456	533.854	169.805	573.421	192.796
13060.000	9.968	10.747	4.949	5.463	536.645	171.186	576.428	194.319
13061.895	10.118	10.874	4.603	5.105	555.676	180.237	596.914	204.333
13065.000	4.477	4.538	3.595	4.250	578.334	192.964	620.842	218.857
13065.045	4.480	4.541	3.591	4.241	578.536	193.126	621.046	219.048
13070.000	5.148	5.209	2.968	3.594	602.390	209.378	645.200	238.459
13070.266	5.167	5.226	2.949	3.561	603.762	210.165	646.588	239.410
13075.000	5.610	5.685	2.538	3.180	629.272	223.152	672.415	255.366
13075.457	5.652	5.724	2.462	3.006	631.845	224.295	675.022	256.779
13080.000	6.122	6.219	1.132	1.209	658.590	232.458	702.150	266.355
13080.619	6.165	6.256	1.021	1.075	662.393	233.125	706.011	267.062
13085.000	6.587	6.605	0.000	0.000	690.326	235.362	734.183	269.416
13085.757	15.765	17.512	0.000	0.000	698.786	235.362	743.312	269.416
13086.250	22.091	23.863	0.000	0.000	708.118	235.362	753.511	269.416

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
EJE: P14: Enlace de A Casilla. Eje-14

* * * D E S B R O C E S * * *

PK inicial : 14000.000
PK final : 14084.612

P.K.	ANCHOS OCUPADOS				AREA DE DESBROCE EN PLANTA		SUPERFICIE REAL	
	DESMONTE		TERRAPLEN		DESMONTE	TERRAPLEN	DESMONTE	TERRAPLEN
	-PLANTA-	--REAL--	-PLANTA-	--REAL--				
14000.000	9.112	9.212	0.000	0.000	0.000	0.000	0.000	0.000
14005.013	10.467	10.562	0.000	0.000	49.076	0.000	49.564	0.000
14010.000	10.508	10.639	0.000	0.000	101.379	0.000	102.430	0.000
14010.788	10.559	10.680	0.000	0.000	109.680	0.000	110.829	0.000
14015.618	11.026	11.114	0.000	0.000	161.809	0.000	163.463	0.000
14020.000	11.393	11.544	0.000	0.000	210.929	0.000	213.107	0.000
14020.466	11.422	11.569	0.000	0.000	216.245	0.000	218.493	0.000
14025.330	11.972	12.088	0.000	0.000	273.142	0.000	276.027	0.000
14030.000	12.461	12.571	0.000	0.000	330.193	0.000	333.606	0.000
14030.193	12.474	12.583	0.000	0.000	332.600	0.000	336.033	0.000
14034.000	13.120	13.237	0.000	0.000	381.318	0.000	385.182	0.000
14035.061	13.305	13.421	0.000	0.000	395.336	0.000	399.323	0.000
14036.000	13.521	13.641	0.000	0.000	407.931	0.000	412.029	0.000
14038.000	13.954	14.091	0.000	0.000	435.405	0.000	439.761	0.000
14040.000	14.389	14.541	0.000	0.000	463.747	0.000	468.393	0.000
14040.969	14.570	14.725	0.000	0.000	477.778	0.000	482.572	0.000
14042.000	14.969	15.135	0.000	0.000	493.005	0.000	497.965	0.000
14044.000	15.756	15.940	0.000	0.000	523.730	0.000	529.041	0.000
14045.969	16.524	16.739	0.000	0.000	555.510	0.000	561.213	0.000
14046.000	16.537	16.752	0.000	0.000	556.023	0.000	561.732	0.000
14048.000	17.508	17.765	0.000	0.000	590.068	0.000	596.249	0.000
14050.000	18.542	18.844	0.000	0.000	626.118	0.000	632.858	0.000
14050.032	18.559	18.860	0.000	0.000	626.711	0.000	633.461	0.000
14052.000	19.336	19.704	0.000	0.000	663.999	0.000	671.408	0.000
14054.000	18.853	19.259	0.000	0.000	702.188	0.000	710.371	0.000
14055.211	17.961	18.385	0.000	0.000	724.479	0.000	733.165	0.000
14056.000	17.348	17.804	0.000	0.000	738.408	0.000	747.441	0.000
14058.000	16.256	16.743	0.000	0.000	772.012	0.000	781.988	0.000
14060.000	15.295	15.813	0.000	0.000	803.564	0.000	814.544	0.000
14060.534	15.059	15.552	0.000	0.000	811.668	0.000	822.918	0.000
14062.000	14.423	14.965	0.000	0.000	833.279	0.000	845.287	0.000
14064.000	13.927	14.493	0.000	0.000	861.629	0.000	874.745	0.000
14064.203	13.895	14.464	0.000	0.000	864.453	0.000	877.684	0.000

1.1.1.2.7. RESUMEN

RESUMEN DESBROCES

		EN DESMONTE	EN TERRAPLEN
	TRONCO		
1	EXPLANACIÓN TRONCO	121,591.87	38,998.80
1	EMBOQUILLES TÚNEL	22,003.36	107.19
	ENLACE CASILLA		
9	ENLACE DA CASILLA RAMAL A	2,260.02	1,921.69
10	ENLACE DA CASILLA RAMAL B	1,204.77	5,139.66
	REPOSICIÓN DE CAMINOS		
12	REPOSICIÓN DE CAMINO EN P.K. 1+830	329.92	1,270.28
13	REPOSICIÓN DE CAMINO EN P.K. 2+120	563.91	771.83
14	REPOSICIÓN DE CAMINO EN P.K. 3+430	4,991.12	340.23
15	REPOSICIÓN DEL CAMINO DE SANTIAGO	533.07	3,147.32
	CAMINOS PARALELOS		
16	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280	3,962.19	2,806.95
17	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA	1,424.87	620.83
	DESVÍOS PROVISIONALES		
20	DESVÍO FFCC ACTUAL	8,710.63	3,649.02
21	SOLUCION N-525 DESVIO 1	4,183.06	1,877.09
22	SOLUCION N-525 DESVIO 2	5,036.88	1,037.84
23	SOLUCION N-525 SITUACION FINAL	6,460.51	12.18
24	SOLUCION N-525 DESVIO 1 / INTERSECCION	777.69	7.66
25	DESVIO PROVISIONAL EN P.K. 3+300	4,826.37	3,347.12
		188,860.23	**65,055.68**

TOTAL	**253,915.91**

1.1.1.3. REFINOS

1.1.1.3.1. TRONCO

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1734.276	0.000	0.00	0.0	0.000	0.00	0.0	13.406	0.00	0.0	45.767	0.00	0.0
1740.000	0.000	0.00	0.0	0.000	0.00	0.0	11.446	67.98	68.0	44.615	258.95	258.9
1760.000	0.000	0.00	0.0	0.000	0.00	0.0	6.263	179.31	247.3	40.743	851.33	1110.3
1780.000	0.396	2.97	3.0	4.804	34.92	34.9	3.439	96.25	343.5	35.102	764.13	1874.4
1800.000	3.093	34.98	38.0	23.748	287.18	322.1	0.922	43.08	386.6	15.978	507.78	2382.2
1820.000	6.550	98.83	136.8	40.696	660.62	982.7	0.000	2.06	388.7	0.000	144.81	2527.0
1840.000	11.097	171.31	308.1	40.191	809.49	1792.2	0.000	0.00	388.7	0.000	0.00	2527.0
1860.000	0.000	37.54	345.6	39.155	789.35	2581.6	0.000	0.00	388.7	0.000	0.00	2527.0
1880.000	0.000	0.00	345.6	38.158	773.95	3355.5	0.000	0.00	388.7	0.000	0.00	2527.0
1900.000	0.000	0.00	345.6	37.004	752.23	4107.7	0.000	0.00	388.7	0.000	0.00	2527.0
1920.000	16.358	85.86	431.5	37.106	738.78	4846.5	0.000	0.00	388.7	0.000	0.00	2527.0
1940.000	9.937	273.41	704.9	36.685	738.24	5584.8	0.000	0.00	388.7	0.000	0.00	2527.0
1960.000	29.381	147.96	852.9	36.827	730.17	6314.9	0.000	0.00	388.7	0.000	0.00	2527.0
1980.000	40.831	695.89	1548.8	36.441	732.59	7047.5	0.000	0.00	388.7	0.000	0.00	2527.0
2000.000	37.721	724.92	2273.7	36.034	724.69	7772.2	0.000	0.00	388.7	0.000	0.00	2527.0
2020.000	32.104	746.70	3020.4	35.574	716.08	8488.3	0.000	0.00	388.7	0.000	0.00	2527.0
2040.000	30.708	651.77	3672.2	35.296	707.72	9196.0	0.000	0.00	388.7	0.000	0.00	2527.0
2060.000	16.453	485.02	4157.2	35.193	704.87	9900.9	0.000	0.00	388.7	0.000	0.00	2527.0
2080.000	4.685	172.74	4329.9	30.327	678.98	10579.9	0.000	0.00	388.7	4.762	23.81	2550.8
2100.000	13.688	189.29	4519.2	34.953	676.85	11256.7	0.000	0.00	388.7	0.000	23.81	2574.6
2120.000	19.588	382.64	4901.8	34.798	697.51	11954.2	0.000	0.00	388.7	0.000	0.00	2574.6
2140.000	36.234	600.06	5501.9	34.598	693.98	12648.2	0.000	0.00	388.7	0.000	0.00	2574.6
2160.000	45.019	816.78	6318.7	34.375	689.74	13337.9	0.000	0.00	388.7	0.000	0.00	2574.6
2180.000	48.755	954.69	7273.4	34.136	685.11	14023.0	0.000	0.00	388.7	0.000	0.00	2574.6
2200.000	50.499	994.90	8268.3	33.848	679.83	14702.9	0.000	0.00	388.7	0.000	0.00	2574.6
2220.000	48.464	989.53	9257.8	33.532	673.96	15376.8	0.000	0.00	388.7	0.000	0.00	2574.6
2240.000	44.477	932.14	10189.9	33.207	667.58	16044.4	0.000	0.00	388.7	0.000	0.00	2574.6
2260.000	45.185	871.92	11061.9	32.814	660.35	16704.8	0.000	0.00	388.7	0.000	0.00	2574.6
2280.000	34.896	825.79	11887.6	32.381	652.06	17356.8	0.000	0.00	388.7	0.000	0.00	2574.6
2300.000	16.700	526.03	12413.7	31.973	643.46	18000.3	0.000	0.00	388.7	0.000	0.00	2574.6
2320.000	0.000	124.94	12538.6	0.000	282.99	18283.3	13.731	119.77	508.4	29.313	329.12	2903.7
2340.000	0.000	0.00	12538.6	0.000	0.00	18283.3	31.395	458.48	966.9	29.083	583.95	3487.7
2360.000	0.000	0.00	12538.6	0.000	0.00	18283.3	32.606	705.76	1672.7	28.908	579.84	4067.5
2380.000	0.000	0.00	12538.6	0.000	0.00	18283.3	24.416	560.65	2233.3	28.757	576.59	4644.1
2400.000	5.145	81.62	12620.2	5.924	94.28	18377.6	21.212	444.28	2677.6	23.899	497.49	5141.6
2420.000	0.000	56.01	12676.2	0.319	87.61	18465.2	18.798	398.51	3076.1	27.366	497.53	5639.1
2440.000	2.976	14.88	12691.1	4.222	25.79	18491.0	17.297	361.94	3438.1	25.343	533.76	6172.9
2460.000	8.489	102.45	12793.6	10.158	128.05	18619.0	12.750	299.85	3737.9	19.279	461.99	6634.9
2480.000	19.629	268.54	13062.1	23.514	343.72	18962.7	2.626	151.03	3888.9	5.795	243.74	6878.6
2500.000	27.294	479.10	13541.2	30.374	568.09	19530.8	0.000	14.61	3903.5	0.000	31.63	6910.3

2520.000	16.879	439.72	13980.9	28.569	602.02	20132.8	0.358	0.89	3904.4	0.000	0.00	6910.3
2540.000	10.175	272.21	14253.1	16.893	461.11	20594.0	14.079	119.46	4023.9	12.030	116.22	7026.5
2560.000	0.000	111.15	14364.3	0.000	183.17	20777.1	21.936	358.17	4382.1	27.501	387.56	7414.0
2580.000	0.000	0.00	14364.3	0.000	0.00	20777.1	37.939	594.84	4976.9	27.530	550.80	7964.8

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
2600.000	0.000	0.00	14364.3	0.000	0.00	20777.1	48.830	887.41	5864.3	27.497	550.24	8515.1
2600.000	0.000	0.00	14364.3	0.000	0.00	20777.1	48.830	0.00	5864.3	27.497	0.00	8515.1
2620.000	0.000	0.00	14364.3	0.000	0.00	20777.1	46.715	967.30	6831.6	27.490	549.89	9065.0
2640.000	0.000	0.00	14364.3	0.000	0.00	20777.1	33.140	803.39	7635.0	27.439	549.41	9614.4
2660.000	0.000	0.00	14364.3	0.214	1.07	20778.2	26.031	586.99	8222.0	26.136	542.20	10156.6
2680.000	6.218	65.44	14429.7	10.195	114.69	20892.9	18.806	448.42	8670.4	18.436	446.58	10603.2
2700.000	14.980	201.65	14631.4	19.291	280.99	21173.9	9.523	311.85	8982.3	9.339	291.60	10894.8
2720.000	39.361	586.61	15218.0	29.875	519.74	21693.6	0.000	52.56	9034.8	0.000	62.19	10957.0
2740.000	53.235	934.08	16152.1	29.874	597.49	22291.1	0.000	0.00	9034.8	0.000	0.00	10957.0
2760.000	60.709	1151.00	17303.1	29.874	597.48	22888.6	0.000	0.00	9034.8	0.000	0.00	10957.0
2780.000	67.335	1272.59	18575.7	29.874	597.49	23486.1	0.000	0.00	9034.8	0.000	0.00	10957.0
2800.000	69.919	1376.50	19952.2	29.875	597.49	24083.6	0.000	0.00	9034.8	0.000	0.00	10957.0
2820.000	71.335	1420.40	21372.6	29.875	597.49	24681.1	0.000	0.00	9034.8	0.000	0.00	10957.0
2840.000	69.088	1410.16	22782.7	29.875	597.49	25278.5	0.000	0.00	9034.8	0.000	0.00	10957.0
2860.000	69.555	1383.63	24166.4	29.874	597.49	25876.0	0.000	0.00	9034.8	0.000	0.00	10957.0
2880.000	74.313	1428.01	25594.4	29.874	597.48	26473.5	0.000	0.00	9034.8	0.000	0.00	10957.0
2900.000	80.050	1543.62	27138.0	29.874	597.48	27071.0	0.000	0.00	9034.8	0.000	0.00	10957.0
2900.000	80.050	0.00	27138.0	29.874	0.00	27071.0	0.000	0.00	9034.8	0.000	0.00	10957.0
2920.000	86.139	1657.08	28795.1	29.875	597.49	27668.5	0.000	0.00	9034.8	0.000	0.00	10957.0
2940.000	90.420	1773.66	30568.7	29.874	597.48	28266.0	0.000	0.00	9034.8	0.000	0.00	10957.0
2960.000	90.933	1818.05	32386.8	29.875	597.48	28863.5	0.000	0.00	9034.8	0.000	0.00	10957.0
2980.000	89.575	1807.47	34194.2	29.847	597.26	29460.7	0.000	0.00	9034.8	0.000	0.00	10957.0
3000.000	90.942	1795.82	35990.1	29.823	596.70	30057.4	0.000	0.00	9034.8	0.000	0.00	10957.0
3020.000	86.965	1789.27	37779.3	30.052	598.19	30655.6	0.000	0.00	9034.8	0.000	0.00	10957.0
3040.000	80.477	1676.19	39455.5	30.360	604.11	31259.7	0.000	0.00	9034.8	0.000	0.00	10957.0
3060.000	71.756	1532.00	40987.5	30.672	610.30	31870.0	0.000	0.00	9034.8	0.000	0.00	10957.0
3080.000	62.671	1342.97	42330.5	30.986	616.57	32486.6	0.000	0.00	9034.8	0.000	0.00	10957.0
3100.000	52.813	1166.16	43496.6	31.300	622.86	33109.4	0.000	0.00	9034.8	0.000	0.00	10957.0
3120.000	27.947	872.08	44368.7	31.860	631.59	33741.0	0.000	0.00	9034.8	0.000	0.00	10957.0
3120.000	27.947	0.00	44368.7	31.860	0.00	33741.0	0.000	0.00	9034.8	0.000	0.00	10957.0
3140.000	22.027	478.49	44847.2	32.418	642.78	34383.8	0.000	0.00	9034.8	0.000	0.00	10957.0
3160.000	16.169	406.29	45253.5	31.227	645.20	35029.0	0.000	0.00	9034.8	0.297	1.49	10958.4
3180.000	7.311	213.86	45467.4	10.723	456.29	35485.3	13.899	109.71	9144.5	21.384	182.67	11141.1
3180.000	7.311	0.00	45467.4	10.723	0.00	35485.3	13.899	0.00	9144.5	21.384	0.00	11141.1
3200.000	12.660	189.43	45656.8	19.853	282.04	35767.3	7.684	254.57	9399.1	12.253	360.09	11501.2

3220.000	30.238	460.59	46117.4	33.300	544.59	36311.9	0.000	38.42	9437.5	0.000	102.19	11603.4
3240.000	50.302	747.84	46865.2	33.301	666.01	36977.9	0.000	0.00	9437.5	0.000	0.00	11603.4
3260.000	55.791	1059.64	47924.9	33.300	666.01	37644.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3280.000	71.195	1240.55	49165.4	33.300	666.01	38310.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3300.000	91.090	1590.89	50756.3	33.300	666.01	38976.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3300.000	91.090	0.00	50756.3	33.300	0.00	38976.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3320.000	97.650	1850.08	52606.4	33.304	666.03	39642.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3340.000	92.982	1921.42	54527.8	33.325	666.35	40308.3	0.000	0.00	9437.5	0.000	0.00	11603.4
3360.000	113.467	2079.70	56607.5	33.300	666.12	40974.5	0.000	0.00	9437.5	0.000	0.00	11603.4

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
3380.000	121.533	2378.11	58985.6	33.306	666.03	41640.5	0.000	0.00	9437.5	0.000	0.00	11603.4
3400.000	120.579	2437.44	61423.1	33.406	666.91	42307.4	0.000	0.00	9437.5	0.000	0.00	11603.4
3420.000	116.295	2372.19	63795.3	33.772	671.27	42978.7	0.000	0.00	9437.5	0.000	0.00	11603.4
3440.000	103.702	2225.15	66020.4	34.509	682.37	43661.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3460.000	102.861	2073.07	68093.5	35.573	700.43	44361.5	0.000	0.00	9437.5	0.000	0.00	11603.4
3480.000	94.951	2013.79	70107.3	37.369	727.36	45088.8	0.000	0.00	9437.5	0.000	0.00	11603.4
3500.000	59.592	1554.88	71662.1	39.671	770.24	45859.1	0.000	0.00	9437.5	0.000	0.00	11603.4
3520.000	33.316	931.76	72593.9	41.998	816.72	46675.8	0.000	0.00	9437.5	0.000	0.00	11603.4
3540.000	19.862	509.91	73103.8	44.308	863.20	47539.0	0.000	0.00	9437.5	0.000	0.00	11603.4
3560.000	6.589	260.83	73364.7	25.215	675.98	48215.0	11.923	65.35	9502.9	19.954	217.42	11820.8
3580.000	0.000	40.70	73405.4	0.000	202.81	48417.8	19.278	334.71	9837.6	45.862	702.38	12523.2
3600.000	0.000	0.00	73405.4	0.000	0.00	48417.8	25.110	446.75	10284.3	51.326	964.35	13487.5
3600.000	0.000	0.00	73405.4	0.000	0.00	48417.8	25.110	0.00	10284.3	51.326	0.00	13487.5
3620.000	0.000	0.00	73405.4	0.000	0.00	48417.8	35.397	594.84	10879.2	54.566	1068.20	14555.7
3640.000	0.000	0.00	73405.4	0.000	0.00	48417.8	43.467	795.37	11674.6	55.779	1103.46	15659.2
3660.000	0.000	0.00	73405.4	0.000	0.00	48417.8	46.352	901.84	12576.4	56.928	1127.01	16786.2
3680.000	0.000	0.00	73405.4	0.000	0.00	48417.8	37.076	835.45	13411.8	58.015	1149.42	17935.6
3700.000	0.000	0.00	73405.4	0.000	0.00	48417.8	2.602	406.86	13818.7	68.973	1260.30	19195.9
3720.000	13.528	96.24	73501.6	69.678	682.55	49100.4	0.000	10.18	13828.9	0.000	705.82	19901.8
3740.000	0.000	98.01	73599.6	66.717	1350.98	50451.3	0.000	0.00	13828.9	0.000	0.00	19901.8
3760.000	0.000	0.00	73599.6	48.501	962.53	51413.9	0.000	0.00	13828.9	0.000	0.00	19901.8
3780.000	0.000	0.00	73599.6	49.276	977.96	52391.8	0.000	0.00	13828.9	0.000	0.00	19901.8
3800.000	0.000	0.00	73599.6	49.984	992.72	53384.5	0.000	0.00	13828.9	0.000	0.00	19901.8
3820.000	0.000	0.00	73599.6	50.280	1001.14	54385.7	0.000	0.00	13828.9	0.000	0.00	19901.8
3840.000	0.000	0.00	73599.6	50.841	1011.41	55397.1	0.000	0.00	13828.9	0.000	0.00	19901.8
3860.000	0.000	0.00	73599.6	51.338	1021.85	56418.9	0.000	0.00	13828.9	0.000	0.00	19901.8
3880.000	0.000	0.00	73599.6	51.750	1030.91	57449.9	0.000	0.00	13828.9	0.000	0.00	19901.8
3900.000	0.000	0.00	73599.6	52.095	1038.55	58488.4	0.000	0.00	13828.9	0.000	0.00	19901.8
3920.000	0.000	0.00	73599.6	52.375	1044.74	59533.1	0.000	0.00	13828.9	0.000	0.00	19901.8
3940.000	0.000	0.00	73599.6	52.569	1049.44	60582.6	0.000	0.00	13828.9	0.000	0.00	19901.8

3960.000	0.000	0.00	73599.6	52.631	1052.14	61634.7	0.000	0.00	13828.9	0.000	0.00	19901.8
3980.000	0.000	0.00	73599.6	52.610	1052.47	62687.2	0.000	0.00	13828.9	0.000	0.00	19901.8
4000.000	0.000	0.00	73599.6	52.552	1051.64	63738.8	0.000	0.00	13828.9	0.000	0.00	19901.8
4020.000	0.000	0.00	73599.6	52.491	1050.42	64789.3	0.000	0.00	13828.9	0.000	0.00	19901.8
4040.000	0.000	0.00	73599.6	52.454	1049.41	65838.7	0.000	0.00	13828.9	0.000	0.00	19901.8
4060.000	0.000	0.00	73599.6	52.450	1049.00	66887.7	0.000	0.00	13828.9	0.000	0.00	19901.8
4080.000	0.000	0.00	73599.6	52.474	1049.21	67936.9	0.000	0.00	13828.9	0.000	0.00	19901.8
4100.000	0.000	0.00	73599.6	52.516	1049.89	68986.8	0.000	0.00	13828.9	0.000	0.00	19901.8
4120.000	0.000	0.00	73599.6	52.565	1050.80	70037.6	0.000	0.00	13828.9	0.000	0.00	19901.8
4140.000	0.000	0.00	73599.6	52.578	1051.53	71089.1	0.000	0.00	13828.9	0.000	0.00	19901.8
4160.000	0.000	0.00	73599.6	52.580	1051.69	72140.8	0.000	0.00	13828.9	0.000	0.00	19901.8
4180.000	0.000	0.00	73599.6	52.580	1051.69	73192.5	0.000	0.00	13828.9	0.000	0.00	19901.8
4200.000	0.000	0.00	73599.6	52.581	1051.69	74244.2	0.000	0.00	13828.9	0.000	0.00	19901.8
4220.000	0.000	0.00	73599.6	52.582	1051.68	75295.9	0.000	0.00	13828.9	0.000	0.00	19901.8

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE TALUD			DESMONTE PLATAFORMA			TERRAPLÉN TALUD			TERRAPLÉN PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
4240.000	0.000	0.00	73599.6	52.583	1051.69	76347.5	0.000	0.00	13828.9	0.000	0.00	19901.8
4260.000	0.000	0.00	73599.6	52.584	1051.70	77399.2	0.000	0.00	13828.9	0.000	0.00	19901.8
4280.000	0.000	0.00	73599.6	52.585	1051.71	78451.0	0.000	0.00	13828.9	0.000	0.00	19901.8
4300.000	0.000	0.00	73599.6	52.578	1051.68	79502.6	0.000	0.00	13828.9	0.000	0.00	19901.8
4320.000	0.000	0.00	73599.6	52.581	1051.68	80554.3	0.000	0.00	13828.9	0.000	0.00	19901.8
4340.000	0.000	0.00	73599.6	52.584	1051.70	81606.0	0.000	0.00	13828.9	0.000	0.00	19901.8
4360.000	0.000	0.00	73599.6	52.586	1051.72	82657.7	0.000	0.00	13828.9	0.000	0.00	19901.8
4380.000	0.000	0.00	73599.6	52.578	1051.68	83709.4	0.000	0.00	13828.9	0.000	0.00	19901.8
4400.000	0.000	0.00	73599.6	52.584	1051.76	84761.2	0.000	0.00	13828.9	0.000	0.00	19901.8
4420.000	0.000	0.00	73599.6	52.491	1051.05	85812.2	0.000	0.00	13828.9	0.000	0.00	19901.8
4440.000	0.000	0.00	73599.6	52.229	1047.58	86859.8	0.000	0.00	13828.9	0.000	0.00	19901.8
4460.000	0.000	0.00	73599.6	51.764	1040.22	87900.0	0.000	0.00	13828.9	0.000	0.00	19901.8
4480.000	0.000	0.00	73599.6	50.981	1027.99	88928.0	0.000	0.00	13828.9	0.000	0.00	19901.8
4500.000	0.000	0.00	73599.6	50.093	1009.70	89937.7	0.000	0.00	13828.9	0.000	0.00	19901.8
4520.000	0.000	0.00	73599.6	48.329	984.90	90922.6	0.000	0.00	13828.9	0.000	0.00	19901.8
4540.000	0.000	0.00	73599.6	46.061	944.51	91867.1	0.000	0.00	13828.9	0.000	0.00	19901.8
4560.000	0.000	0.00	73599.6	43.354	894.15	92761.3	0.000	0.00	13828.9	0.000	0.00	19901.8
4580.000	0.000	0.00	73599.6	40.467	838.30	93599.6	0.000	0.00	13828.9	0.000	0.00	19901.8
4600.000	22.174	357.74	73957.3	60.497	1062.00	94661.6	0.000	0.00	13828.9	0.000	0.00	19901.8
4620.000	13.828	366.95	74324.3	58.798	1192.40	95854.0	0.000	0.00	13828.9	0.000	0.00	19901.8
4640.000	6.319	191.36	74515.6	41.707	1087.78	96941.8	1.671	4.92	13833.8	14.076	61.12	19962.9
4660.000	0.000	24.53	74540.2	0.000	207.86	97149.6	7.045	82.69	13916.5	44.505	689.59	20652.5
4680.000	0.000	0.00	74540.2	0.000	0.00	97149.6	15.781	217.35	14133.9	44.285	884.97	21537.4
4700.000	0.000	0.00	74540.2	0.000	0.00	97149.6	23.237	395.46	14529.3	46.432	902.44	22439.9
4700.000	0.000	0.00	74540.2	0.000	0.00	97149.6	23.237	0.00	14529.3	46.432	0.00	22439.9

4720.000	0.000	0.00	74540.2	0.000	0.00	97149.6	11.956	273.82	14803.1	32.143	665.30	23105.2
4740.000	0.000	0.00	74540.2	0.000	0.00	97149.6	15.215	269.89	15073.0	32.710	647.72	23752.9
4760.000	0.000	0.00	74540.2	0.000	0.00	97149.6	16.546	327.24	15400.3	33.576	662.67	24415.6
4780.000	0.000	0.00	74540.2	0.000	0.00	97149.6	12.088	310.78	15711.0	34.691	681.84	25097.4
4800.000	0.000	0.00	74540.2	0.000	0.00	97149.6	2.286	136.63	15847.7	26.791	603.10	25700.5
4820.000	1.598	6.93	74547.1	29.800	90.09	97239.7	0.000	11.49	15859.2	0.000	467.65	26168.2
4839.946	7.499	88.66	74635.8	29.800	594.39	97834.1	0.000	0.00	15859.2	0.000	0.00	26168.2

1.1.1.3.2. ENLACE DE CASILLA

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
104.834	0.000	0.00	0.0	0.000	0.00	0.0	5.980	0.00	0.0	9.345	0.00	0.0
110.000	0.000	0.00	0.0	0.000	0.00	0.0	5.310	29.16	29.2	9.573	48.87	48.9
120.000	0.000	0.00	0.0	0.000	0.00	0.0	3.370	43.60	72.8	10.262	98.94	147.8
130.000	0.000	0.00	0.0	0.000	0.00	0.0	2.512	27.64	100.4	10.799	106.15	254.0
140.000	0.344	0.76	0.8	11.295	24.79	24.8	0.000	10.00	110.4	0.000	84.70	338.7
150.000	1.707	8.67	9.4	11.295	112.95	137.7	0.000	0.00	110.4	0.000	0.00	338.7
160.000	1.638	21.46	30.9	11.295	112.95	250.7	0.000	0.00	110.4	0.000	0.00	338.7
170.000	6.956	36.97	67.9	11.310	113.01	363.7	0.000	0.00	110.4	0.000	0.00	338.7
180.000	9.847	84.00	151.9	11.333	113.21	476.9	0.000	0.00	110.4	0.000	0.00	338.7
190.000	11.522	108.18	260.0	11.500	114.17	591.1	0.000	0.00	110.4	0.000	0.00	338.7
200.000	12.175	118.50	378.5	11.728	116.08	707.2	0.000	0.00	110.4	0.000	0.00	338.7
210.000	10.802	115.00	493.5	11.877	118.11	825.3	0.000	0.00	110.4	0.000	0.00	338.7
220.000	8.403	97.56	591.1	11.881	118.92	944.2	0.000	0.00	110.4	0.000	0.00	338.7
230.000	5.169	67.85	658.9	11.671	117.89	1062.1	0.000	0.00	110.4	0.000	0.00	338.7
240.000	2.400	36.63	695.6	9.413	111.10	1173.2	0.308	0.69	111.1	1.804	4.05	342.7
250.000	0.473	15.70	711.3	2.405	56.54	1229.7	3.320	17.79	128.9	8.902	56.08	398.8
260.000	0.000	0.34	711.6	0.000	7.48	1237.2	8.021	54.85	183.7	10.192	102.13	500.9
270.000	0.000	0.00	711.6	0.000	0.00	1237.2	10.106	91.18	274.9	10.198	101.90	602.8
280.000	0.000	0.00	711.6	0.000	0.00	1237.2	10.653	103.79	378.7	10.193	101.90	704.7
290.000	0.000	0.00	711.6	0.000	0.00	1237.2	10.476	105.63	484.3	10.196	101.91	806.6
300.000	0.000	0.00	711.6	0.000	0.00	1237.2	9.913	102.07	586.4	10.197	101.90	908.5
310.000	0.000	0.00	711.6	0.000	0.00	1237.2	8.842	93.94	680.3	10.192	101.90	1010.4
320.000	0.000	0.00	711.6	0.000	0.00	1237.2	7.483	82.97	763.3	10.595	103.59	1114.0
330.000	0.000	0.00	711.6	0.000	0.00	1237.2	5.062	63.49	826.8	11.049	109.23	1223.2
340.000	0.000	0.00	711.6	2.496	7.25	1244.4	2.760	34.51	861.3	7.824	101.88	1325.1
350.000	0.000	0.00	711.6	0.000	9.83	1254.3	1.913	22.90	884.2	3.912	60.11	1385.2
354.871	0.000	0.00	711.6	0.000	0.00	1254.3	1.811	9.11	893.3	2.890	16.06	1401.3

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLA Ramal B

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	1.277	0.00	0.0	3.221	0.00	0.0	0.000	0.00	0.0	0.000	0.00	0.0
10.000	1.020	11.48	11.5	7.208	52.14	52.1	0.000	0.00	0.0	0.000	0.00	0.0
20.000	0.455	7.37	18.9	9.493	102.22	154.4	0.000	0.00	0.0	1.966	1.39	1.4
30.000	0.000	1.14	20.0	0.000	17.08	171.4	1.466	7.11	7.1	12.050	103.42	104.8
40.000	0.000	0.00	20.0	0.000	0.00	171.4	1.326	14.67	21.8	11.717	118.43	223.2
50.000	0.000	0.00	20.0	0.000	0.00	171.4	1.947	15.66	37.4	10.919	112.98	336.2
60.000	0.000	0.00	20.0	0.000	0.00	171.4	2.160	20.48	57.9	11.233	109.68	445.9
70.000	0.000	0.00	20.0	0.000	0.00	171.4	3.474	25.22	83.1	11.717	116.12	562.0
80.000	0.000	0.00	20.0	0.000	0.00	171.4	4.898	46.33	129.5	11.899	118.12	680.1
90.000	0.000	0.00	20.0	0.000	0.00	171.4	4.100	44.77	174.2	12.097	120.11	800.2
100.000	0.000	0.00	20.0	0.000	0.00	171.4	0.647	23.04	197.3	12.136	121.41	921.7
110.000	0.000	0.00	20.0	1.434	3.25	174.7	0.000	1.62	198.9	9.063	114.53	1036.2
120.000	1.802	8.82	28.8	12.124	105.90	280.6	0.000	0.00	198.9	0.000	15.74	1051.9
130.000	2.249	20.19	49.0	11.678	119.12	399.7	0.000	0.00	198.9	0.000	0.00	1051.9
140.000	1.779	19.91	68.9	11.493	115.85	515.6	0.000	0.00	198.9	0.000	0.00	1051.9
150.000	0.498	11.13	80.0	11.322	114.06	629.6	0.000	0.00	198.9	0.000	0.00	1051.9
160.000	0.346	4.21	84.3	11.319	113.20	742.8	0.000	0.00	198.9	0.000	0.00	1051.9
170.000	0.000	1.19	85.4	1.324	64.24	807.1	0.000	3.47	202.4	9.128	45.58	1097.5
180.000	0.000	0.00	85.4	0.000	1.59	808.6	4.195	18.63	221.0	10.221	100.97	1198.5
190.000	0.000	0.00	85.4	0.000	0.00	808.6	1.849	30.80	251.8	10.218	102.27	1300.7
200.000	0.000	0.00	85.4	0.000	0.00	808.6	0.642	12.46	264.3	10.631	103.92	1404.7
210.000	0.000	0.00	85.4	0.000	0.00	808.6	0.137	6.00	270.3	10.863	108.19	1512.9
220.000	0.000	0.00	85.4	0.000	0.00	808.6	3.343	17.41	287.7	10.893	108.78	1621.6
230.000	0.000	0.00	85.4	0.000	0.00	808.6	3.493	34.18	321.8	10.891	108.92	1730.6
240.000	0.000	0.00	85.4	0.000	0.00	808.6	4.665	40.79	362.6	10.890	108.91	1839.5
250.000	0.000	0.00	85.4	0.000	0.00	808.6	5.426	50.46	413.1	10.888	108.89	1948.4
260.000	0.000	0.00	85.4	0.000	0.00	808.6	7.144	62.85	475.9	10.887	108.88	2057.2
270.000	0.000	0.00	85.4	0.000	0.00	808.6	8.925	80.25	556.2	10.895	108.89	2166.1
280.000	0.000	0.00	85.4	0.000	0.00	808.6	11.852	103.88	660.1	10.912	109.03	2275.2
280.000	0.000	0.00	85.4	0.000	0.00	808.6	11.852	0.00	660.1	10.912	0.00	2275.2
290.000	0.000	0.00	85.4	0.000	0.00	808.6	16.060	139.61	799.7	10.733	106.81	2382.0
300.000	0.000	0.00	85.4	0.000	0.00	808.6	17.463	167.54	967.2	12.294	113.62	2495.6
310.000	0.000	0.00	85.4	0.000	0.00	808.6	16.410	168.98	1136.2	15.066	136.60	2632.2
310.000	0.000	0.00	85.4	0.000	0.00	808.6	17.131	0.00	1136.2	15.066	0.00	2632.2
320.000	0.000	0.00	85.4	0.000	0.00	808.6	17.150	176.06	1312.3	17.334	163.28	2795.5
330.000	0.000	0.00	85.4	0.000	0.00	808.6	13.869	154.49	1466.8	18.130	178.55	2974.0
340.000	0.000	0.00	85.4	0.000	0.00	808.6	11.409	125.61	1592.4	18.000	180.92	3154.9
350.000	0.000	0.00	85.4	0.000	0.00	808.6	11.298	113.68	1706.1	17.769	178.85	3333.8
360.000	0.000	0.00	85.4	0.000	0.00	808.6	10.252	107.75	1813.8	17.287	175.28	3509.1
370.000	0.000	0.00	85.4	0.000	0.00	808.6	9.091	96.76	1910.6	16.097	166.92	3676.0
371.619	0.000	0.00	85.4	0.000	0.00	808.6	8.840	14.51	1925.1	15.919	25.92	3701.9

1.1.1.3.3. REPOSICIÓN DE CAMINOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 12: REP. CAMINO EN P.K.1+830

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.041	0.00	0.0	5.288	0.00	0.0	0.118	0.00	0.0	0.062	0.00	0.0
10.000	0.000	0.04	0.0	4.941	52.53	52.5	0.163	0.28	0.3	0.403	0.47	0.5
20.000	0.000	0.00	0.0	5.264	52.07	104.6	0.027	0.40	0.7	0.080	0.95	1.4
30.000	0.000	0.00	0.0	0.000	34.91	139.5	0.961	3.98	4.7	5.502	19.43	20.8
40.000	0.000	0.00	0.0	0.000	0.00	139.5	2.862	23.94	28.6	5.502	55.02	75.9
50.000	0.000	0.00	0.0	0.000	0.00	139.5	13.589	65.48	94.1	5.502	55.02	130.9
60.000	0.000	0.00	0.0	0.000	0.00	139.5	15.427	151.15	245.2	5.502	55.02	185.9
70.000	0.000	0.00	0.0	0.000	0.00	139.5	16.871	161.93	407.1	5.502	55.02	240.9
80.000	0.000	0.00	0.0	0.000	0.00	139.5	15.595	172.49	579.6	5.502	55.02	295.9
90.000	0.000	0.00	0.0	0.000	0.00	139.5	15.310	165.36	745.0	5.502	55.02	351.0
100.000	0.000	0.00	0.0	0.000	0.00	139.5	12.310	137.83	882.8	5.502	55.02	406.0
110.000	0.000	0.00	0.0	0.000	0.00	139.5	0.000	35.19	918.0	4.607	48.75	454.7
120.000	0.000	0.00	0.0	0.000	0.00	139.5	0.000	0.00	918.0	4.607	46.07	500.8
130.000	0.000	0.00	0.0	0.000	0.00	139.5	0.000	0.00	918.0	4.607	46.07	546.9
140.000	0.000	0.00	0.0	4.607	7.65	147.2	0.000	0.00	918.0	0.000	38.42	585.3
150.000	0.000	0.00	0.0	4.607	46.07	193.2	0.000	0.00	918.0	0.000	0.00	585.3
160.000	0.000	0.00	0.0	4.608	46.07	239.3	0.000	0.00	918.0	0.000	0.00	585.3
170.000	2.325	13.96	14.0	5.205	49.07	288.4	0.000	0.00	918.0	0.000	0.00	585.3
180.000	0.520	15.22	29.2	5.208	52.07	340.4	0.000	0.00	918.0	0.000	0.00	585.3
188.195	0.091	2.44	31.7	5.238	42.87	383.3	0.000	0.00	918.0	0.000	0.00	585.3

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PROYECTO : VARIANTE DE OURENSE
EJE: 13: REP. CAMINO EN P.K.2+120

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.000	0.00	0.0	2.002	0.00	0.0	0.013	0.00	0.0	2.002	0.00	0.0
10.000	0.000	0.00	0.0	4.450	37.70	37.7	0.647	4.29	4.3	0.511	6.91	6.9
20.000	0.000	0.00	0.0	1.165	36.85	74.5	1.769	7.94	12.2	4.758	17.57	24.5
30.000	0.000	0.00	0.0	2.240	20.49	95.0	3.957	23.67	35.9	4.561	41.64	66.1
30.000	0.000	0.00	0.0	2.240	0.00	95.0	3.957	0.00	35.9	4.561	0.00	66.1
40.000	0.000	0.00	0.0	0.000	5.60	100.6	1.969	25.50	61.4	6.883	63.03	129.1
50.000	0.000	0.00	0.0	0.000	0.00	100.6	1.736	16.67	78.1	6.883	68.83	198.0
60.000	0.000	0.00	0.0	0.000	0.00	100.6	1.500	16.16	94.2	6.883	68.83	266.8
70.000	0.000	0.00	0.0	0.000	0.00	100.6	0.975	13.04	107.3	6.883	68.83	335.6
80.000	0.000	0.00	0.0	0.000	0.00	100.6	0.000	5.94	113.2	7.176	69.93	405.6
90.000	0.000	0.00	0.0	0.000	0.00	100.6	0.000	0.00	113.2	7.176	71.76	477.3
100.000	0.000	0.00	0.0	7.176	17.94	118.6	0.000	0.00	113.2	0.000	53.82	531.2
110.000	0.000	0.00	0.0	0.000	17.94	136.5	0.000	0.00	113.2	7.176	53.82	585.0
120.000	0.000	0.00	0.0	0.000	0.00	136.5	0.659	2.59	115.8	6.883	70.67	655.6
130.000	0.000	0.00	0.0	0.000	0.00	136.5	0.410	5.78	121.6	6.883	68.83	724.5
140.000	0.000	0.00	0.0	0.000	33.88	170.4	0.244	1.63	123.2	6.883	34.42	758.9
150.000	0.000	0.00	0.0	1.772	4.43	174.8	0.898	4.33	127.5	5.111	64.40	823.3
160.000	0.000	0.00	0.0	3.593	25.93	200.8	0.770	6.63	134.2	3.290	42.91	866.2
170.000	0.000	0.00	0.0	5.956	49.75	250.5	0.245	4.71	138.9	0.767	18.34	884.5
180.000	0.000	0.00	0.0	6.694	63.62	314.1	0.000	0.61	139.5	0.000	3.53	888.1
190.000	0.000	0.00	0.0	6.645	66.66	380.8	0.000	0.00	139.5	0.000	0.00	888.1
200.000	0.000	0.00	0.0	6.351	65.63	446.4	0.000	0.00	139.5	0.000	0.00	888.1
200.000	0.000	0.00	0.0	6.351	0.00	446.4	0.000	0.00	139.5	0.000	0.00	888.1
210.000	0.000	0.00	0.0	5.791	61.56	508.0	0.000	0.00	139.5	0.000	0.00	888.1
220.000	0.000	0.00	0.0	4.328	50.31	558.3	0.259	2.44	141.9	0.600	3.37	891.5
222.519	0.000	0.00	0.0	2.350	8.41	566.7	0.115	0.47	142.4	2.350	3.72	895.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.037	0.00	0.0	0.000	0.00	0.0	0.000	0.00	0.0	4.203	0.00	0.0
10.000	0.000	0.04	0.0	0.635	0.64	0.6	0.000	0.00	0.0	4.292	44.97	45.0
20.000	0.307	0.48	0.5	3.499	15.01	15.6	0.000	0.00	0.0	2.206	38.30	83.3
30.000	0.042	5.75	6.3	4.302	44.18	59.8	0.252	1.95	2.0	1.457	12.76	96.0
40.000	0.000	0.92	7.2	3.517	42.41	102.2	5.046	33.09	35.0	2.242	15.18	111.2
50.000	0.000	0.00	7.2	0.667	16.15	118.4	0.000	43.42	78.5	4.644	40.01	151.2
60.000	0.000	0.00	7.2	0.000	0.91	119.3	0.000	0.00	78.5	5.311	52.45	203.7
70.000	0.000	0.06	7.3	3.752	22.60	141.9	4.478	4.04	82.5	2.007	30.75	234.4
80.000	6.120	34.64	41.9	5.601	47.73	189.6	0.000	5.81	88.3	0.000	8.93	243.4
90.000	11.104	90.10	132.0	5.601	56.01	245.6	0.000	0.00	88.3	0.000	0.00	243.4
100.000	12.399	116.39	248.4	5.600	56.00	301.6	0.000	0.00	88.3	0.000	0.00	243.4
110.000	20.521	152.29	400.7	5.601	56.00	357.6	0.000	0.00	88.3	0.000	0.00	243.4
120.000	24.803	227.86	628.5	5.601	56.01	413.7	0.000	0.00	88.3	0.000	0.00	243.4
130.000	29.367	271.95	900.5	5.601	56.01	469.7	0.000	0.00	88.3	0.000	0.00	243.4
140.000	31.370	303.59	1204.1	5.601	56.01	525.7	0.000	0.00	88.3	0.000	0.00	243.4
150.000	31.793	315.91	1520.0	5.601	56.01	581.7	0.000	0.00	88.3	0.000	0.00	243.4
160.000	32.142	319.76	1839.7	5.601	56.01	637.7	0.000	0.00	88.3	0.000	0.00	243.4
170.000	34.090	329.31	2169.0	5.601	56.01	693.7	0.000	0.00	88.3	0.000	0.00	243.4
180.000	34.400	342.89	2511.9	5.601	56.01	749.7	0.000	0.00	88.3	0.000	0.00	243.4
190.000	34.560	344.85	2856.8	5.601	56.01	805.7	0.000	0.00	88.3	0.000	0.00	243.4
200.000	15.063	296.54	3153.3	5.601	56.01	861.8	0.000	0.00	88.3	0.000	0.00	243.4
210.000	5.380	102.09	3255.4	4.824	55.24	917.0	0.000	0.00	88.3	0.876	0.88	244.2
220.000	0.000	11.05	3266.5	0.000	10.14	927.1	8.426	39.69	128.0	5.902	48.09	292.3
230.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	35.62	163.6	5.001	52.71	345.0
240.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	395.0
250.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	445.1
260.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	495.1
270.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	545.1
280.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	595.1
290.000	0.000	0.00	3266.5	0.000	0.00	927.1	0.000	0.00	163.6	5.001	50.01	645.1
300.000	1.284	1.28	3267.7	5.601	5.60	932.7	0.000	9.04	172.7	0.000	47.42	692.5
310.000	0.269	6.10	3273.8	2.036	51.13	983.9	0.000	0.00	172.7	3.565	4.89	697.4
320.000	0.451	4.88	3278.7	2.970	42.08	1025.9	0.000	0.00	172.7	2.617	13.92	711.3
330.000	0.937	7.36	3286.1	2.888	38.49	1064.4	0.000	0.00	172.7	2.821	17.77	729.1
340.000	0.000	7.53	3293.6	0.000	17.74	1082.2	0.516	2.53	175.2	5.792	39.75	768.8
350.000	0.915	6.65	3300.3	0.739	4.32	1086.5	0.572	8.99	184.2	5.021	53.31	822.1
360.000	1.014	6.71	3307.0	2.145	11.24	1097.7	0.000	4.32	188.5	3.576	46.29	868.4
370.000	2.427	16.92	3323.9	5.231	30.07	1127.8	0.000	0.01	188.5	0.000	25.51	893.9
380.000	1.347	17.43	3341.3	2.385	34.30	1162.1	0.000	0.00	188.5	2.066	13.90	907.9
386.783		0.163	10.20	3351.5		0.544	23.34	1185.4		0.000	0.00	188.5	3.425	4.65	912.5

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.874	0.00	0.0	5.573	0.00	0.0	0.000	0.00	0.0	3.568	0.00	0.0
10.000	0.150	4.53	4.5	4.374	53.14	53.1	0.000	0.00	0.0	4.796	38.63	38.6
10.000	0.150	0.00	4.5	4.374	0.00	53.1	2.410	0.00	0.0	3.675	0.00	38.6
20.000	0.000	16.21	20.7	0.000	14.27	67.4	2.352	9.45	9.5	8.140	70.51	109.1
30.000	8.284	21.29	42.0	2.241	6.66	74.1	3.038	27.30	36.8	5.809	74.55	183.7
40.000	0.000	8.28	50.3	0.000	2.24	76.3	4.828	40.81	77.6	8.170	79.34	263.0
50.000	0.000	0.00	50.3	0.000	0.00	76.3	6.908	59.23	136.8	8.170	81.70	344.7
60.000	0.000	0.00	50.3	0.000	0.00	76.3	8.833	77.09	213.9	8.169	81.70	426.4
70.000	0.000	0.00	50.3	0.000	0.00	76.3	10.884	97.05	310.9	8.169	81.69	508.1
80.000	0.000	0.00	50.3	0.000	0.00	76.3	12.052	113.94	424.9	8.169	81.69	589.8
90.000	0.000	0.00	50.3	0.000	0.00	76.3	14.280	136.14	561.0	8.169	81.69	671.5
100.000	0.000	0.00	50.3	0.000	0.00	76.3	17.207	155.26	716.3	8.169	81.69	753.2
110.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	17.21	733.5	7.001	71.18	824.4
120.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	894.4
130.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	964.4
140.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1034.4
150.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1104.4
160.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1174.4
170.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1244.5
180.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1314.5
190.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1384.5
200.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1454.5
210.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	733.5	7.001	70.01	1524.5
220.000	0.000	0.00	50.3	0.000	0.00	76.3	26.183	79.27	812.8	8.241	73.73	1598.2
230.000	0.000	0.00	50.3	0.000	0.00	76.3	24.836	253.91	1066.7	8.241	82.41	1680.7
240.000	0.000	0.00	50.3	0.000	0.00	76.3	23.931	244.28	1311.0	8.241	82.41	1763.1
250.000	0.000	0.00	50.3	0.000	0.00	76.3	21.871	228.39	1539.3	8.241	82.41	1845.5
260.000	0.000	0.00	50.3	0.000	0.00	76.3	20.087	208.85	1748.2	8.241	82.41	1927.9
270.000	0.000	0.00	50.3	0.000	0.00	76.3	18.271	191.21	1939.4	8.241	82.41	2010.3
280.000	0.000	0.00	50.3	0.000	0.00	76.3	16.500	171.62	2111.0	8.241	82.41	2092.7
290.000	0.000	0.00	50.3	0.000	0.00	76.3	14.919	157.13	2268.1	8.241	82.41	2175.1
300.000	0.000	0.00	50.3	0.000	0.00	76.3	13.048	141.75	2409.9	8.241	82.41	2257.5
310.000	0.000	0.00	50.3	0.000	0.00	76.3	10.598	117.53	2527.4	8.242	82.42	2340.0
320.000	0.000	0.00	50.3	0.000	0.00	76.3	9.163	97.62	2625.0	8.242	82.42	2422.4
330.000	0.000	0.00	50.3	0.000	0.00	76.3	7.167	83.01	2708.1	8.242	82.42	2504.8
330.000	0.000	0.00	50.3	0.000	0.00	76.3	5.509	0.00	2708.1	9.408	0.00	2504.8
340.000	0.000	0.00	50.3	0.000	0.00	76.3	3.021	43.47	2751.5	9.408	94.08	2598.9
350.000	0.000	0.00	50.3	0.000	0.00	76.3	1.069	18.83	2770.4	9.408	94.08	2693.0
360.000	0.000	0.00	50.3	0.000	0.00	76.3	0.178	5.22	2775.6	9.359	93.95	2786.9
370.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	1.13	2776.7	9.352	93.92	2880.8

380.000	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.02	2776.7	9.286	91.99	2972.8
381.778	0.000	0.00	50.3	0.000	0.00	76.3	0.000	0.00	2776.7	9.274	16.50	2989.3

1.1.1.3.4. CAMINOS PARALELOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.761	0.00	0.0	1.947	0.00	0.0	0.939	0.00	0.0	2.104	0.00	0.0
10.000	0.000	1.90	1.9	0.000	4.87	4.9	8.675	55.87	55.9	5.003	40.26	40.3
20.000	0.000	0.00	1.9	0.000	0.00	4.9	9.611	92.70	148.6	5.975	54.89	95.1
30.000	0.000	0.00	1.9	0.000	0.00	4.9	9.234	95.57	244.1	5.944	59.59	154.7
40.000	0.000	0.00	1.9	0.000	0.00	4.9	7.652	88.65	332.8	5.921	59.32	214.1
50.000	0.000	0.00	1.9	0.000	0.00	4.9	5.518	62.43	395.2	5.907	59.13	273.2
60.000	2.292	11.71	13.6	1.726	4.54	9.4	3.844	48.33	443.6	4.262	55.13	328.3
70.000	3.781	32.26	45.9	3.258	27.79	37.2	2.772	29.29	472.9	2.741	32.13	360.4
80.000	3.657	35.34	81.2	2.500	29.96	67.2	3.730	32.42	505.3	3.498	30.02	390.5
90.000	5.181	47.76	129.0	3.095	30.02	97.2	4.129	38.80	544.1	2.904	29.97	420.4
100.000	4.222	47.60	176.6	3.320	32.98	130.2	2.474	32.08	576.2	2.678	27.01	447.4
110.000	2.206	31.75	208.3	0.589	20.63	150.8	5.984	31.96	608.1	5.409	39.36	486.8
120.000	1.404	17.27	225.6	0.000	1.47	152.3	7.114	67.67	675.8	5.998	58.51	545.3
130.000	3.053	20.44	246.0	1.394	3.65	155.9	5.782	63.66	739.4	4.604	56.33	601.6
140.000	4.613	38.56	284.6	6.083	38.70	194.6	0.000	22.73	762.2	0.000	21.52	623.2
150.000	5.031	51.23	335.8	5.886	60.33	254.9	0.000	0.00	762.2	0.197	0.49	623.6
160.000	7.020	57.93	393.7	6.083	60.33	315.3	0.000	0.00	762.2	0.000	0.49	624.1
170.000	9.657	85.21	479.0	6.083	60.83	376.1	0.000	0.00	762.2	0.000	0.00	624.1
180.000	7.365	86.51	565.5	5.111	58.40	434.5	0.212	0.53	762.7	0.887	2.22	626.4
190.000	4.628	59.69	625.2	0.974	25.40	459.9	8.160	46.56	809.3	5.024	34.58	660.9
200.000	4.442	44.36	669.5	1.455	11.31	471.2	7.740	85.70	895.0	4.543	48.67	709.6
210.000	5.443	47.60	717.1	5.587	30.93	502.1	0.000	42.68	937.6	0.496	29.27	738.9
210.000	5.452	0.00	717.1	5.564	0.00	502.1	0.000	0.00	937.6	0.288	0.00	738.9
220.000	13.816	93.35	810.5	5.852	57.80	559.9	0.000	0.00	937.6	0.000	0.72	739.6
230.000	0.000	61.45	871.9	5.001	53.41	613.4	0.000	0.00	937.6	0.000	0.00	739.6
240.000	0.000	0.00	871.9	5.001	50.01	663.4	0.000	0.00	937.6	0.000	0.00	739.6
250.000	0.000	0.00	871.9	5.001	50.01	713.4	0.000	0.00	937.6	0.000	0.00	739.6
260.000	0.000	0.00	871.9	5.001	50.01	763.4	0.000	0.00	937.6	0.000	0.00	739.6
270.000	0.000	0.00	871.9	5.001	50.01	813.4	0.000	0.00	937.6	0.000	0.00	739.6
280.000	0.000	0.00	871.9	5.001	50.01	863.4	0.000	0.00	937.6	0.000	0.00	739.6
290.000	0.000	0.00	871.9	5.001	50.01	913.4	0.000	0.00	937.6	0.000	0.00	739.6
300.000	0.000	0.00	871.9	5.001	50.01	963.4	0.000	0.00	937.6	0.000	0.00	739.6
310.000	0.000	0.00	871.9	5.001	50.01	1013.4	0.000	0.00	937.6	0.000	0.00	739.6
320.000	0.000	0.00	871.9	5.001	50.01	1063.4	0.000	0.00	937.6	0.000	0.00	739.6
330.000	0.000	0.00	871.9	5.001	50.01	1113.5	0.000	0.00	937.6	0.000	0.00	739.6
340.000	0.000	0.00	871.9	5.001	50.01	1163.5	0.000	0.00	937.6	0.000	0.00	739.6
350.000	0.000	0.00	871.9	5.001	50.01	1213.5	0.000	0.00	937.6	0.000	0.00	739.6
360.000	0.000	0.00	871.9	5.001	50.01	1263.5	0.000	0.00	937.6	0.000	0.00	739.6
370.000	0.000	0.00	871.9	5.001	50.01	1313.5	0.000	0.00	937.6	0.000	0.00	739.6
380.000	0.000	0.00	871.9	5.001	50.01	1363.5	0.000	0.00	937.6	0.000	0.00	739.6

390.000	0.000	0.00	871.9	5.001	50.01	1413.5	0.000	0.00	937.6	0.000	0.00	739.6
400.000	0.000	0.00	871.9	5.001	50.01	1463.5	0.000	0.00	937.6	0.000	0.00	739.6
410.000	0.000	0.00	871.9	5.001	50.01	1513.5	0.000	0.00	937.6	0.000	0.00	739.6
420.000	0.000	0.00	871.9	5.001	50.01	1563.5	0.000	0.00	937.6	0.000	0.00	739.6

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
430.000	0.000	0.00	871.9	5.001	50.01	1613.6	0.000	0.00	937.6	0.000	0.00	739.6
440.000	0.000	0.00	871.9	5.001	50.01	1663.6	0.000	0.00	937.6	0.000	0.00	739.6
450.000	0.000	0.00	871.9	5.001	50.01	1713.6	0.000	0.00	937.6	0.000	0.00	739.6
460.000	0.000	0.00	871.9	5.001	50.01	1763.6	0.000	0.00	937.6	0.000	0.00	739.6
470.000	0.000	0.00	871.9	5.001	50.01	1813.6	0.000	0.00	937.6	0.000	0.00	739.6
480.000	0.000	0.00	871.9	5.001	50.01	1863.6	0.000	0.00	937.6	0.000	0.00	739.6
490.000	0.000	0.00	871.9	5.001	50.01	1913.6	0.000	0.00	937.6	0.000	0.00	739.6
500.000	0.000	0.00	871.9	5.001	50.01	1963.6	0.000	0.00	937.6	0.000	0.00	739.6
510.000	0.000	0.00	871.9	5.001	50.01	2013.6	0.000	0.00	937.6	0.000	0.00	739.6
520.000	0.000	0.00	871.9	5.001	50.01	2063.6	0.000	0.00	937.6	0.000	0.00	739.6
530.000	0.000	0.00	871.9	5.001	50.01	2113.7	0.000	0.00	937.6	0.000	0.00	739.6
540.000	0.000	0.00	871.9	5.001	50.01	2163.7	0.000	0.00	937.6	0.000	0.00	739.6
550.000	0.000	0.00	871.9	5.001	50.01	2213.7	0.000	0.00	937.6	0.000	0.00	739.6
560.000	0.000	0.00	871.9	5.001	50.01	2263.7	0.000	0.00	937.6	0.000	0.00	739.6
570.000	0.000	0.00	871.9	5.001	50.01	2313.7	0.000	0.00	937.6	0.000	0.00	739.6
580.000	11.597	63.07	935.0	5.852	53.90	2367.6	0.000	0.00	937.6	0.000	0.00	739.6
590.000	3.232	74.87	1009.9	5.465	58.03	2425.6	0.000	0.00	937.6	0.349	0.44	740.0
600.000	1.037	19.22	1029.1	0.178	24.28	2449.9	4.455	22.78	960.4	5.821	35.28	775.3
610.000	0.367	6.21	1035.3	0.000	0.44	2450.4	5.425	49.39	1009.8	5.998	59.54	834.8
620.000	0.000	0.92	1036.2	0.000	0.00	2450.4	7.408	69.05	1078.9	5.902	59.26	894.1
630.000	0.243	0.61	1036.8	0.000	0.00	2450.4	1.611	35.44	1114.3	5.998	59.26	953.4
640.000	2.137	9.72	1046.5	3.040	11.06	2461.4	1.090	11.97	1126.3	2.958	48.92	1002.3
650.000	5.318	38.07	1084.6	4.123	40.18	2501.6	0.883	7.24	1133.5	1.875	19.80	1022.1
660.000	3.477	45.18	1129.8	3.002	29.51	2531.1	1.141	12.48	1146.0	2.996	30.47	1052.6
670.000	3.997	32.75	1162.5	6.069	40.50	2571.6	0.000	6.18	1152.2	0.014	19.69	1072.3
680.000	9.640	74.52	1237.0	6.083	60.79	2632.4	0.000	0.00	1152.2	0.000	0.04	1072.3
690.000	12.702	109.57	1346.6	6.083	60.83	2693.2	0.000	0.00	1152.2	0.000	0.00	1072.3
700.000	14.595	135.32	1481.9	6.083	60.83	2754.1	0.000	0.00	1152.2	0.000	0.00	1072.3
710.000	15.028	148.81	1630.8	6.083	60.83	2814.9	0.000	0.00	1152.2	0.000	0.00	1072.3
720.000	14.885	150.33	1781.1	6.083	60.83	2875.7	0.000	0.00	1152.2	0.000	0.00	1072.3
730.000	15.405	153.59	1934.7	6.083	60.83	2936.5	0.000	0.00	1152.2	0.000	0.00	1072.3
740.000	14.906	151.49	2086.2	6.083	60.83	2997.4	0.000	0.00	1152.2	0.000	0.00	1072.3
750.000	15.125	151.94	2238.1	6.081	60.82	3058.2	0.000	0.00	1152.2	0.000	0.00	1072.3
760.000	9.212	130.25	2368.3	6.084	60.81	3119.0	0.000	0.00	1152.2	0.000	0.00	1072.3
770.000	1.930	57.23	2425.6	0.010	35.73	3154.7	8.985	32.73	1184.9	5.994	24.48	1096.8

780.000	0.000	1.23	2426.8	0.000	0.01	3154.7	27.755	180.79	1365.7	5.921	59.22	1156.0
790.000	0.000	0.00	2426.8	0.000	0.00	3154.7	28.684	280.74	1646.4	5.931	59.26	1215.2
800.000	0.000	0.00	2426.8	0.000	0.00	3154.7	0.000	195.32	1841.7	5.075	54.52	1269.8
804.095	0.000	0.00	2426.8	0.000	0.00	3154.7	0.000	0.00	1841.7	0.962	12.03	1281.8

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.727	0.00	0.0	2.989	0.00	0.0	0.088	0.00	0.0	4.254	0.00	0.0
10.000	2.680	1.91	1.9	0.444	1.13	1.1	0.066	0.11	0.1	5.533	62.79	62.8
20.000	1.779	16.19	18.1	5.601	22.01	23.1	0.000	5.70	5.8	0.000	35.91	98.7
30.000	2.698	21.23	39.3	5.601	56.01	79.1	0.000	0.00	5.8	0.000	0.00	98.7
40.000	3.538	33.13	72.5	5.601	56.01	135.2	0.000	0.00	5.8	0.000	0.00	98.7
50.000	4.478	40.15	112.6	5.601	56.01	191.2	0.000	0.00	5.8	0.000	0.00	98.7
60.000	4.026	43.26	155.9	5.601	56.01	247.2	0.000	0.00	5.8	0.000	0.00	98.7
70.000	2.409	33.19	189.1	5.601	56.01	303.2	0.000	0.00	5.8	0.000	0.00	98.7
80.000	0.984	16.16	205.2	5.601	56.01	359.2	0.000	0.00	5.8	0.000	0.00	98.7
90.000	0.658	7.96	213.2	3.015	42.23	401.4	0.000	0.00	5.8	2.624	13.87	112.6
100.000	0.594	6.08	219.3	1.550	21.59	423.0	0.107	0.27	6.1	4.209	35.50	148.1
110.000	0.000	4.23	223.5	0.000	6.47	429.5	1.664	7.52	13.6	5.777	51.15	199.2
120.000	0.000	0.00	223.5	0.000	0.00	429.5	1.614	17.72	31.3	5.902	58.71	257.9
130.000	0.000	0.00	223.5	0.000	0.00	429.5	1.338	13.47	44.8	5.902	59.02	317.0
140.000	0.000	0.00	223.5	0.000	0.00	429.5	1.077	13.10	57.9	5.902	59.02	376.0
150.000	0.000	0.00	223.5	0.000	0.00	429.5	0.406	6.88	64.8	5.814	58.57	434.5
160.000	0.000	0.00	223.5	0.000	0.00	429.5	0.581	3.73	68.5	5.888	58.34	492.9
170.000	0.000	0.00	223.5	0.000	0.00	429.5	0.260	3.00	71.5	5.889	58.90	551.8
180.000	0.000	0.00	223.5	0.000	0.00	429.5	0.000	0.65	72.2	5.752	57.38	609.2
190.000	0.000	0.00	223.5	0.000	0.00	429.5	0.377	1.96	74.1	5.852	58.23	667.4
200.000	0.344	0.27	223.8	0.473	0.38	429.9	0.000	3.01	77.1	5.228	57.79	725.2
210.000	1.650	10.49	234.2	5.601	41.74	471.6	0.000	0.00	77.1	0.000	14.53	739.7
220.000	1.845	18.39	252.6	4.789	52.44	524.1	0.000	0.00	77.1	0.813	3.58	743.3
230.000	0.293	10.13	262.8	0.093	28.34	552.4	0.106	0.26	77.4	5.666	28.46	771.8
240.000	0.000	0.47	263.2	0.000	0.15	552.5	0.924	4.85	82.2	5.902	58.12	829.9
250.000	0.000	0.00	263.2	0.000	0.00	552.5	0.135	6.52	88.8	5.873	58.95	888.8
260.000	0.000	0.00	263.2	0.000	0.00	552.5	0.000	0.34	89.1	5.683	57.83	946.6
270.000	0.256	2.01	265.3	0.312	5.67	558.2	0.000	0.00	89.1	5.332	50.73	997.4
280.000	0.321	2.75	268.0	1.008	7.33	565.6	0.000	0.00	89.1	4.630	48.98	1046.4
281.191	0.309	0.38	268.4	0.880	1.12	566.7	0.000	0.00	89.1	4.783	5.61	1052.0

1.1.1.3.5. DESVÍOS PROVISIONALES

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.000	0.00	0.0	9.011	0.00	0.0	12.871	0.00	0.0	0.884	0.00	0.0
10.000	0.000	0.00	0.0	8.827	89.36	89.4	12.429	126.36	126.4	1.068	9.59	9.6
20.000	0.000	0.00	0.0	8.706	87.49	176.9	9.857	109.76	236.1	1.190	11.46	21.1
30.000	0.000	0.00	0.0	8.588	86.65	263.5	8.512	93.00	329.1	1.308	12.30	33.4
40.000	0.000	0.00	0.0	8.113	83.93	347.4	13.028	100.37	429.5	2.234	18.41	51.8
50.000	0.000	0.00	0.0	7.935	79.38	426.8	11.937	124.83	554.3	2.411	24.08	75.8
60.000	0.000	0.00	0.0	7.355	80.45	507.3	10.444	93.14	647.5	2.991	20.75	96.6
70.000	0.000	0.00	0.0	7.440	73.96	581.2	9.316	98.15	745.6	2.906	29.50	126.1
80.000	0.000	0.00	0.0	7.787	75.64	656.9	8.814	89.84	835.4	2.559	27.82	153.9
90.000	0.000	0.00	0.0	7.956	78.97	735.8	8.930	81.08	916.5	2.390	24.49	178.4
100.000	0.000	0.00	0.0	8.545	81.84	817.7	7.382	84.20	1000.7	1.802	21.62	200.0
110.000	0.000	0.00	0.0	8.781	86.65	904.3	6.564	69.70	1070.4	1.566	16.81	216.8
120.000	0.145	0.36	0.4	9.060	89.46	993.8	5.067	57.72	1128.1	0.835	12.88	229.7
130.000	0.705	4.62	5.0	9.019	89.86	1083.7	3.871	46.08	1174.2	0.876	9.09	238.8
140.000	1.519	10.77	15.7	9.402	92.00	1175.7	2.245	30.55	1204.8	0.493	6.95	245.8
150.000	1.930	17.73	33.5	9.444	94.34	1270.0	0.330	7.23	1212.0	0.000	1.23	247.0
160.000	3.203	27.06	60.5	9.444	94.44	1364.4	0.000	3.14	1215.1	0.000	0.00	247.0
170.000	3.916	35.48	96.0	9.444	94.44	1458.9	0.000	1.99	1217.1	0.000	0.00	247.0
180.000	5.099	42.30	138.3	9.444	94.44	1553.3	0.000	0.00	1217.1	0.000	0.00	247.0
190.000	5.765	55.06	193.4	9.444	94.44	1647.8	0.000	0.00	1217.1	0.000	0.00	247.0
200.000	4.920	53.49	246.9	9.444	94.44	1742.2	0.000	0.00	1217.1	0.000	0.00	247.0
210.000	3.548	41.85	288.7	9.444	94.44	1836.6	0.000	0.00	1217.1	0.000	0.00	247.0
220.000	4.234	36.52	325.2	9.444	94.44	1931.1	0.000	0.00	1217.1	0.000	0.00	247.0
230.000	5.180	45.85	371.1	9.444	94.44	2025.5	0.000	0.00	1217.1	0.000	0.00	247.0
240.000	24.083	130.50	501.6	9.444	94.44	2120.0	0.000	0.00	1217.1	0.000	0.00	247.0
250.000	30.657	284.73	786.3	9.444	94.44	2214.4	0.000	0.00	1217.1	0.000	0.00	247.0
260.000	25.801	298.38	1084.7	9.444	94.44	2308.8	0.000	0.00	1217.1	0.000	0.00	247.0
270.000	5.766	143.29	1228.0	9.444	94.44	2403.3	0.000	0.00	1217.1	0.000	0.00	247.0
280.000	4.423	46.60	1274.6	9.444	94.44	2497.7	0.000	0.00	1217.1	0.000	0.00	247.0
290.000	5.537	51.91	1326.5	9.444	94.44	2592.2	0.000	0.00	1217.1	0.000	0.00	247.0
300.000	7.083	61.54	1388.1	9.444	94.44	2686.6	0.000	0.00	1217.1	0.000	0.00	247.0
310.000	9.858	84.87	1472.9	9.444	94.44	2781.1	0.000	0.00	1217.1	0.000	0.00	247.0
320.000	8.720	96.44	1569.4	9.444	94.44	2875.5	0.000	0.00	1217.1	0.000	0.00	247.0
330.000	6.010	72.25	1641.6	5.349	77.53	2953.0	0.000	0.00	1217.1	4.095	16.92	263.9
340.000	2.960	48.01	1689.6	0.665	26.03	2979.1	1.924	13.55	1230.7	9.230	71.79	335.7
350.000	0.000	7.40	1697.0	0.000	1.66	2980.7	5.217	29.73	1260.4	10.346	100.67	436.4
360.000	0.000	0.00	1697.0	0.000	0.00	2980.7	8.959	69.15	1329.6	10.346	103.46	539.8
370.000	0.000	0.00	1697.0	0.000	0.00	2980.7	13.525	109.79	1439.4	10.346	103.46	643.3
380.000	0.000	0.00	1697.0	0.000	0.00	2980.7	6.668	100.09	1539.5	10.346	103.46	746.8
390.000	1.727	4.32	1701.3	1.460	3.65	2984.4	2.911	54.24	1593.7	8.436	98.69	845.4

400.000	0.000	4.32	1705.7	0.000	3.65	2988.0	2.275	29.27	1623.0	10.346	98.69	944.1
410.000	0.169	0.42	1706.1	0.731	1.83	2989.8	0.382	9.98	1632.9	9.164	100.51	1044.6
420.000	2.500	17.20	1723.3	9.444	72.66	3062.5	0.000	0.95	1633.9	0.000	22.91	1067.6
430.000	4.111	37.25	1760.5	9.444	94.44	3156.9	0.000	0.00	1633.9	0.000	0.00	1067.6

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
440.000	6.607	50.22	1810.7	9.444	94.44	3251.4	0.000	0.00	1633.9	0.000	0.00	1067.6
450.000	6.445	72.09	1882.8	9.444	94.44	3345.8	0.000	0.00	1633.9	0.000	0.00	1067.6
460.000	6.763	75.12	1957.9	9.444	94.44	3440.3	0.000	0.00	1633.9	0.000	0.00	1067.6
470.000	3.396	51.21	2009.2	7.942	90.69	3531.0	1.057	2.64	1636.5	1.954	4.88	1072.4
480.000	3.131	32.63	2041.8	8.695	84.30	3615.3	2.981	18.23	1654.8	1.200	14.65	1087.1
490.000	2.918	30.17	2072.0	8.528	86.11	3701.4	2.863	29.95	1684.7	1.367	12.84	1099.9
500.000	2.739	28.26	2100.2	9.444	89.83	3791.2	0.071	18.11	1702.8	0.000	7.99	1107.9
510.000	1.624	23.81	2124.0	7.938	90.68	3881.9	0.848	3.07	1705.9	1.957	4.89	1112.8
520.000	1.620	16.19	2140.2	5.635	70.86	3952.7	0.298	5.46	1711.4	4.260	28.09	1140.9
530.000	1.656	16.35	2156.6	7.360	58.93	4011.7	4.195	23.22	1734.6	0.874	31.71	1172.6
540.000	1.732	16.91	2173.5	4.992	61.99	4073.7	5.509	46.68	1781.3	3.241	20.35	1193.0
550.000	8.070	41.47	2215.0	4.994	54.29	4128.0	5.552	55.63	1836.9	3.240	28.05	1221.0
560.000	1.752	37.05	2252.0	6.339	57.31	4185.3	5.089	54.10	1891.0	1.895	25.03	1246.1
570.000	3.285	12.59	2264.6	8.566	65.86	4251.1	0.132	39.92	1930.9	1.112	20.09	1266.1
580.000	3.573	36.11	2300.7	7.790	76.54	4327.7	0.155	1.77	1932.7	1.888	20.23	1286.4
590.000	3.637	36.44	2337.1	5.125	74.10	4401.8	2.117	6.38	1939.1	4.553	22.68	1309.1
600.000	3.697	36.60	2373.8	3.761	43.57	4445.3	2.261	24.25	1963.3	5.917	53.21	1362.3
610.000	3.571	36.65	2410.4	2.134	28.71	4474.0	1.308	17.80	1981.1	7.543	68.07	1430.3
620.000	0.000	17.67	2428.1	0.411	14.88	4488.9	1.025	11.64	1992.7	6.708	69.84	1500.2
630.000	0.000	0.00	2428.1	0.463	5.30	4494.2	0.361	6.62	1999.4	6.709	66.50	1566.7
640.000	0.000	0.00	2428.1	0.000	1.94	4496.2	0.254	3.04	2002.4	7.009	68.81	1635.5
650.000	0.000	0.00	2428.1	0.332	1.11	4497.3	0.031	1.36	2003.8	6.777	69.30	1704.8
660.000	0.000	0.00	2428.1	3.647	20.57	4517.8	0.010	0.10	2003.9	3.572	51.34	1756.1
670.000	0.000	0.00	2428.1	6.182	48.36	4566.2	0.074	0.50	2004.4	1.250	24.80	1780.9
680.000	0.038	0.10	2428.2	7.489	71.51	4637.7	0.080	0.77	2005.1	0.260	5.01	1785.9
690.000	0.057	0.57	2428.7	7.295	73.58	4711.3	0.167	1.36	2006.5	0.453	3.90	1789.8
700.000	0.199	1.33	2430.1	7.757	75.47	4786.8	0.000	0.71	2007.2	0.000	2.04	1791.9
710.000	0.762	3.85	2433.9	7.908	78.29	4865.1	0.000	0.00	2007.2	0.000	0.00	1791.9
720.000	0.854	8.10	2442.0	8.059	79.85	4944.9	0.000	0.00	2007.2	0.000	0.00	1791.9
730.000	0.909	8.72	2450.7	8.199	81.33	5026.2	0.000	0.00	2007.2	0.000	0.00	1791.9
740.000	0.987	9.49	2460.2	8.337	82.73	5109.0	0.000	0.00	2007.2	0.000	0.00	1791.9
750.000	0.880	8.95	2469.2	8.432	83.86	5192.8	0.000	0.00	2007.2	0.000	0.00	1791.9
760.000	0.947	8.92	2478.1	7.009	81.03	5273.9	0.000	0.00	2007.2	0.000	0.00	1791.9
770.000	0.860	9.35	2487.4	7.009	70.09	5343.9	0.000	0.00	2007.2	0.000	0.00	1791.9
777.153	0.640	5.36	2492.8	6.627	49.48	5393.4	0.000	0.00	2007.2	0.382	0.65	1792.5

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PROYECTO : VARIANTE DE OURENSE
EJE: 21: SOLUCION N-525 DESVIO 4

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.845	0.00	0.0	8.130	0.00	0.0	0.000	0.00	0.0	0.589	0.00	0.0
20.000	1.036	21.47	21.5	5.795	143.63	143.6	0.000	0.00	0.0	2.924	30.75	30.7
40.000	1.321	24.00	45.5	8.724	165.63	309.3	0.000	0.00	0.0	0.000	8.78	39.5
60.000	0.890	21.17	66.6	8.725	174.50	483.8	0.000	0.00	0.0	0.000	0.00	39.5
80.000	0.928	19.05	85.7	6.589	160.58	644.3	0.000	0.00	0.0	2.136	13.91	53.4
100.000	0.598	13.24	98.9	6.512	91.24	735.6	0.000	0.00	0.0	2.213	83.25	136.7
120.000	0.677	13.59	112.5	8.093	165.79	901.4	0.000	0.00	0.0	0.632	8.71	145.4
140.000	0.493	11.03	123.6	8.725	150.04	1051.4	0.000	0.00	0.0	0.000	24.45	169.9
160.000	0.606	12.28	135.8	2.966	144.57	1196.0	0.000	0.00	0.0	5.759	29.92	199.8
180.000	0.397	9.34	145.2	0.000	7.41	1203.4	0.033	0.86	0.9	8.936	168.66	368.4
200.000	0.341	7.12	152.3	0.000	0.00	1203.4	0.023	3.97	4.8	8.936	177.66	546.1
220.000	0.455	6.03	158.3	1.486	16.04	1219.4	0.000	5.47	10.3	7.239	162.14	708.2
240.000	0.659	10.79	169.1	7.267	33.80	1253.2	1.829	14.56	24.9	1.669	144.39	852.6
260.000	2.674	27.74	196.9	8.706	151.17	1404.4	0.000	21.17	46.0	0.000	25.76	878.4
280.000	1.577	29.84	226.7	0.637	55.56	1460.0	4.664	128.39	174.4	8.230	122.03	1000.4
300.000	0.000	11.16	237.9	0.000	1.59	1461.5	2.889	55.03	229.5	9.084	178.77	1179.2
320.000	0.000	0.00	237.9	0.000	0.00	1461.5	3.376	63.33	292.8	9.071	181.66	1360.9
340.000	0.000	0.00	237.9	0.000	0.00	1461.5	3.450	371.09	663.9	9.056	181.10	1542.0
360.000	0.000	0.00	237.9	0.000	0.00	1461.5	25.451	133.60	797.5	9.084	181.46	1723.4
380.000	5.429	27.14	265.0	7.957	39.78	1501.3	0.000	266.76	1064.2	0.768	140.10	1863.5
400.000	2.221	71.49	336.5	8.708	167.18	1668.5	0.000	0.21	1064.5	0.000	7.51	1871.0
420.000	7.309	142.74	479.2	8.706	174.05	1842.6	0.000	0.00	1064.5	0.000	0.00	1871.0
440.000	1.527	47.62	526.8	8.725	174.42	2017.0	0.000	0.00	1064.5	0.000	0.00	1871.0
460.000	1.653	28.48	555.3	8.715	152.22	2169.2	0.000	0.00	1064.5	0.000	22.25	1893.3
480.000	1.731	33.82	589.2	8.703	174.10	2343.3	0.000	0.00	1064.5	0.000	0.00	1893.3
494.417	1.383	23.29	612.4	8.703	125.47	2468.8	0.000	0.00	1064.5	0.000	0.00	1893.3

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PROYECTO : VARIANTE DE OURENSE
EJE: 22: SOLUCION N-525 DESVIO 3

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.815	0.00	0.0	7.258	0.00	0.0	0.000	0.00	0.0	1.441	0.00	0.0
20.000	1.024	20.93	20.9	5.794	132.90	132.9	0.000	0.00	0.0	2.905	41.07	41.1
40.000	1.320	23.74	44.7	8.705	168.08	301.0	0.000	0.00	0.0	0.000	5.94	47.0
60.000	0.899	21.26	65.9	8.705	174.09	475.1	0.000	0.00	0.0	0.000	0.00	47.0
80.000	0.885	18.69	84.6	6.354	158.59	633.7	0.000	0.00	0.0	2.350	15.50	62.5
100.000	0.530	11.49	96.1	6.513	86.21	719.9	0.000	0.00	0.0	2.192	87.88	150.4
120.000	0.458	10.85	107.0	8.254	163.95	883.8	0.000	0.00	0.0	0.451	10.14	160.5
140.000	0.465	9.00	116.0	8.178	140.61	1024.4	0.000	0.00	0.0	0.527	33.48	194.0
160.000	0.725	13.21	129.2	7.445	155.54	1180.0	0.000	0.00	0.0	1.260	18.55	212.6
180.000	0.551	13.45	142.6	7.034	83.83	1263.8	0.000	0.00	0.0	1.670	90.26	302.8
200.000	0.057	8.47	151.1	0.000	25.85	1289.7	0.000	0.00	0.0	8.705	148.24	451.1
220.000	0.000	0.14	151.2	0.000	0.00	1289.7	1.041	11.69	11.7	9.040	180.16	631.2
240.000	0.000	0.00	151.2	0.000	0.00	1289.7	2.125	30.01	41.7	9.040	180.61	811.8
260.000	0.000	0.00	151.2	0.000	0.00	1289.7	1.923	37.19	78.9	9.053	181.03	992.9
280.000	0.000	0.89	152.1	0.000	0.00	1289.7	2.000	35.77	114.7	9.053	180.17	1173.1
300.000	1.439	12.71	164.8	4.920	26.70	1316.4	0.604	30.33	145.0	3.955	152.13	1325.2
320.000	0.917	26.22	191.0	2.717	61.24	1377.6	0.000	7.15	152.1	5.980	115.07	1440.3
340.000	9.219	223.43	414.5	8.705	159.07	1536.7	0.000	0.00	152.1	0.000	15.02	1455.3
360.000	2.433	98.77	513.2	8.705	174.09	1710.8	0.000	0.00	152.1	0.000	0.00	1455.3
380.000	1.226	33.04	546.3	0.706	118.91	1829.7	0.095	0.24	152.4	8.204	55.70	1511.0
400.000	6.300	86.08	632.4	8.705	132.01	1961.7	0.000	0.32	152.7	0.000	43.61	1554.6
420.000	9.355	157.45	789.8	8.681	173.84	2135.5	0.000	0.00	152.7	0.000	0.00	1554.6
440.000	7.097	160.86	950.7	3.136	141.34	2276.9	0.067	2.92	155.6	5.713	34.43	1589.0
460.000	1.597	86.16	1036.8	8.705	117.72	2394.6	0.000	0.17	155.8	0.000	56.73	1645.7
480.000	1.314	28.52	1065.4	8.683	172.34	2566.9	0.000	0.00	155.8	0.000	1.60	1647.4
500.000	1.690	32.08	1097.4	8.683	173.66	2740.6	0.000	0.00	155.8	0.000	0.00	1647.4
519.080	1.355	30.75	1128.2	8.683	165.67	2906.3	0.000	0.00	155.8	0.000	0.00	1647.4

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PROYECTO : VARIANTE DE OURENSE
EJE: 23: SOLUCION N-525 SITUACION FINAL

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	0.815	0.00	0.0	7.258	0.00	0.0	0.000	0.00	0.0	1.441	0.00	0.0
20.000	1.007	20.90	20.9	5.602	129.00	129.0	0.000	0.00	0.0	3.207	45.87	45.9
40.000	1.268	23.30	44.2	8.729	166.77	295.8	0.000	0.00	0.0	0.000	8.78	54.7
60.000	0.874	20.40	64.6	8.582	173.74	469.5	0.000	0.00	0.0	0.000	0.00	54.7
80.000	0.901	18.54	83.1	5.827	148.74	618.2	0.000	0.00	0.0	2.518	20.74	75.4
100.000	0.650	14.80	97.9	4.906	56.61	674.9	0.000	0.00	0.0	3.211	107.63	183.0
120.000	0.815	15.59	113.5	6.983	149.95	824.8	0.000	0.00	0.0	1.342	14.43	197.5
140.000	0.627	12.29	125.8	8.002	132.98	957.8	0.000	0.00	0.0	0.438	35.07	232.5
160.000	0.761	13.62	139.4	8.432	153.12	1110.9	0.000	0.00	0.0	0.191	17.64	250.2
180.000	0.546	13.95	153.4	7.228	96.81	1207.7	0.000	0.00	0.0	1.748	77.65	327.8
200.000	0.570	11.33	164.7	7.055	124.73	1332.5	0.000	0.00	0.0	2.456	60.41	388.2
220.000	0.195	5.78	170.5	3.326	47.45	1379.9	0.000	0.00	0.0	6.752	148.83	537.0
240.000	0.099	3.19	173.7	0.065	22.52	1402.4	0.188	3.09	3.1	10.812	187.44	724.5
260.000	1.004	10.51	184.2	1.912	55.50	1457.9	0.000	0.47	3.6	9.387	165.79	890.3
280.000	1.254	24.11	208.3	12.006	108.87	1566.8	0.000	0.00	3.6	0.000	124.56	1014.8
300.000	2.627	29.80	238.1	12.277	243.87	1810.7	0.000	0.00	3.6	0.000	0.00	1014.8
320.000	6.703	46.53	284.6	8.931	218.71	2029.4	0.000	0.00	3.6	2.962	23.59	1038.4
340.000	0.540	51.06	335.7	0.000	39.69	2069.1	0.000	0.00	3.6	10.924	189.55	1228.0
360.000	0.839	14.94	350.6	1.848	45.77	2114.8	0.000	0.00	3.6	8.130	162.83	1390.8
380.000	0.944	17.39	368.0	4.751	116.05	2230.9	0.000	0.00	3.6	9.858	157.11	1547.9
400.000	0.469	12.38	380.4	2.721	66.24	2297.1	0.000	0.00	3.6	11.470	221.79	1769.7
420.000	0.825	11.81	392.2	13.846	145.17	2442.3	0.000	1.19	4.8	0.254	137.52	1907.2
440.000	1.362	20.84	413.1	14.243	281.22	2723.5	0.000	0.00	4.8	0.000	3.51	1910.7
460.000	1.184	28.05	441.1	9.269	267.97	2991.5	0.000	0.00	4.8	4.730	14.74	1925.5
480.000	1.323	25.27	466.4	12.499	240.11	3231.6	0.000	0.00	4.8	1.742	41.31	1966.8
500.000	1.119	26.47	492.9	11.928	269.94	3501.5	0.000	0.00	4.8	2.472	17.37	1984.2
500.954	1.085	1.05	493.9	11.599	11.22	3512.7	0.000	0.00	4.8	2.801	2.51	1986.7

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 4 / INTERSECCION

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	5.355	0.00	0.0	21.293	0.00	0.0	0.000	0.00	0.0	0.000	0.00	0.0
20.000	2.540	62.34	62.3	8.707	243.59	243.6	0.000	0.00	0.0	0.000	0.00	0.0
40.000	0.898	34.55	96.9	8.594	174.02	417.6	0.000	0.00	0.0	0.105	0.07	0.1
60.000	1.310	18.61	115.5	4.861	97.63	515.2	0.000	1.37	1.4	3.834	78.90	79.0
63.868	7.983	17.97	133.5	7.087	23.11	538.3	0.000	0.00	1.4	1.608	10.53	89.5

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
0.000	2.474	0.00	0.0	3.276	0.00	0.0	1.064	0.00	0.0	2.899	0.00	0.0
20.000	13.390	242.88	242.9	6.180	117.00	117.0	0.000	2.66	2.7	0.000	7.25	7.2
40.000	12.062	252.79	495.7	6.108	122.80	239.8	0.000	0.00	2.7	0.000	0.00	7.2
60.000	10.414	225.52	721.2	6.080	121.82	361.6	0.000	0.00	2.7	0.000	0.00	7.2
80.000	6.443	174.39	895.6	6.083	121.63	483.3	0.000	0.00	2.7	0.000	0.00	7.2
100.000	5.014	111.00	1006.6	4.694	100.32	583.6	1.401	18.92	21.6	1.292	20.12	27.4
120.000	0.626	61.75	1068.3	0.000	75.54	659.1	9.933	71.28	92.9	5.986	44.19	71.6
140.000	0.000	1.57	1069.9	0.000	0.00	659.1	22.121	321.36	414.2	5.902	118.25	189.8
160.000	0.000	0.00	1069.9	0.000	0.00	659.1	12.468	407.04	821.3	5.902	118.04	307.9
180.000	0.941	2.35	1072.3	0.000	0.00	659.1	11.684	225.57	1046.8	5.986	118.25	426.1
200.000	0.000	5.98	1078.2	0.000	0.00	659.1	16.221	283.99	1330.8	5.902	118.67	544.8
220.000	0.000	0.00	1078.2	0.000	0.00	659.1	4.160	257.36	1588.2	5.902	118.04	662.8
240.000	4.944	34.39	1112.6	6.083	76.03	735.1	0.000	22.24	1610.4	0.000	44.26	707.1
260.000	16.341	245.91	1358.5	6.083	121.65	856.8	0.000	0.00	1610.4	0.000	0.00	707.1
280.000	2.087	188.88	1547.4	3.035	113.02	969.8	1.843	2.51	1612.9	2.963	8.52	715.6
300.000	0.000	15.16	1562.6	0.000	9.52	979.3	7.532	96.93	1709.9	5.902	110.20	825.8
320.000	0.972	2.87	1565.4	1.113	1.54	980.9	1.107	77.67	1787.5	4.886	117.23	943.0
340.000	4.537	72.12	1637.6	2.255	67.18	1048.1	1.442	18.92	1806.5	3.743	52.79	995.8
360.000	8.160	84.66	1722.2	6.083	84.14	1132.2	0.000	12.11	1818.6	0.000	36.46	1032.3
380.000	13.486	222.10	1944.3	6.083	121.65	1253.9	0.000	0.00	1818.6	0.000	0.00	1032.3
400.000	15.096	294.69	2239.0	6.083	121.65	1375.5	0.000	0.00	1818.6	0.000	0.00	1032.3
420.000	15.156	304.53	2543.6	6.083	121.65	1497.2	0.000	0.00	1818.6	0.000	0.00	1032.3
440.000	13.444	299.09	2842.6	6.083	121.65	1618.8	0.000	0.00	1818.6	0.000	0.00	1032.3
460.000	0.000	112.27	2954.9	0.000	64.52	1683.3	19.498	109.01	1927.6	5.902	55.64	1087.9
480.000	0.000	0.00	2954.9	0.000	0.00	1683.3	10.339	477.22	2404.8	5.902	118.04	1206.0
500.000	7.039	22.01	2976.9	1.593	2.91	1686.2	0.000	36.11	2440.9	2.589	103.23	1309.2
500.392	6.858	2.72	2979.6	0.000	0.31	1686.5	0.000	0.00	2440.9	4.188	1.33	1310.5

1.1.1.3.6. CONEXIÓN PROVISIONAL

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1000.000	2.207	0.00	0.0	10.740	0.00	0.0	0.000	0.00	0.0	3.944	0.00	0.0
1001.000	2.027	2.12	2.1	9.782	10.26	10.3	0.000	0.00	0.0	4.664	4.30	4.3
1002.000	1.833	1.93	4.0	8.476	9.13	19.4	0.000	0.00	0.0	5.726	5.19	9.5
1003.000	0.955	1.39	5.4	7.279	7.88	27.3	0.000	0.00	0.0	6.719	6.22	15.7
1004.000	0.811	0.88	6.3	5.453	6.37	33.6	0.000	0.00	0.0	6.967	6.84	22.6
1005.000	0.677	0.74	7.1	3.613	4.53	38.2	0.000	0.00	0.0	8.870	7.92	30.5
1006.000	0.555	0.62	7.7	0.464	2.04	40.2	0.000	0.00	0.0	12.083	10.48	41.0
1007.000	0.344	0.45	8.1	0.000	0.23	40.4	0.000	0.00	0.0	12.640	12.36	53.3
1008.000	0.086	0.22	8.3	0.000	0.00	40.4	0.000	0.00	0.0	12.736	12.69	66.0
1009.000	0.000	0.04	8.4	0.000	0.00	40.4	0.015	0.01	0.0	12.880	12.81	78.8
1010.000	0.000	0.00	8.4	0.000	0.00	40.4	0.169	0.09	0.1	12.920	12.90	91.7
1011.000	0.000	0.00	8.4	0.000	0.00	40.4	0.324	0.25	0.3	12.964	12.94	104.7
1012.000	0.000	0.00	8.4	0.000	0.00	40.4	0.484	0.40	0.8	12.994	12.98	117.6
1013.000	0.000	0.00	8.4	0.000	0.00	40.4	0.677	0.58	1.3	12.979	12.99	130.6
1014.000	0.000	0.00	8.4	0.000	0.00	40.4	0.857	0.77	2.1	12.959	12.97	143.6
1015.000	0.000	0.00	8.4	0.000	0.00	40.4	1.004	0.93	3.0	13.100	13.03	156.6
1015.253	0.000	0.00	8.4	0.000	0.00	40.4	1.043	0.26	3.3	13.135	3.32	159.9
1016.000	0.000	0.00	8.4	0.000	0.00	40.4	1.174	0.83	4.1	13.269	9.86	169.8
1017.000	0.000	0.00	8.4	0.000	0.00	40.4	1.268	1.22	5.3	13.342	13.31	183.1
1018.000	0.000	0.00	8.4	0.000	0.00	40.4	1.354	1.31	6.6	13.418	13.38	196.5
1018.181	0.000	0.00	8.4	0.000	0.00	40.4	1.375	0.25	6.9	13.439	2.43	198.9
1019.000	0.000	0.00	8.4	0.000	0.00	40.4	1.485	1.17	8.1	13.615	11.08	210.0
1020.000	0.000	0.00	8.4	0.000	0.00	40.4	1.620	1.55	9.6	13.829	13.72	223.7
1021.000	0.000	0.00	8.4	0.000	0.00	40.4	1.697	1.66	11.3	13.950	13.89	237.6
1021.072	0.000	0.00	8.4	0.000	0.00	40.4	1.704	0.12	11.4	13.959	1.00	238.6
1022.000	0.000	0.00	8.4	0.000	0.00	40.4	1.831	1.64	13.0	14.172	13.05	251.7
1023.000	0.000	0.00	8.4	0.000	0.00	40.4	2.047	1.94	15.0	14.464	14.32	266.0
1023.889	0.000	0.00	8.4	0.000	0.00	40.4	2.243	1.91	16.9	14.721	12.97	279.0
1024.000	0.000	0.00	8.4	0.000	0.00	40.4	2.271	0.25	17.1	14.766	1.64	280.6
1025.000	0.000	0.00	8.4	0.000	0.00	40.4	2.499	2.38	19.5	14.997	14.88	295.5
1026.000	0.000	0.00	8.4	0.000	0.00	40.4	2.729	2.61	22.1	15.212	15.10	310.6
1026.603	0.000	0.00	8.4	0.000	0.00	40.4	2.869	1.69	23.8	15.338	9.21	319.8
1027.000	0.000	0.00	8.4	0.000	0.00	40.4	2.990	1.16	25.0	15.466	6.11	325.9
1028.000	0.000	0.00	8.4	0.000	0.00	40.4	3.336	3.16	28.1	15.788	15.63	341.5
1029.000	6.182	3.09	11.5	0.000	0.00	40.4	3.714	3.52	31.7	16.140	15.96	357.5
1029.187	6.081	1.15	12.6	0.000	0.00	40.4	3.780	0.70	32.4	16.234	3.03	360.5
1030.000	5.623	4.76	17.4	0.131	0.05	40.5	4.065	3.19	35.6	16.586	13.34	373.9
1031.000	5.061	5.34	22.7	0.402	0.27	40.8	4.313	4.19	39.8	16.881	16.73	390.6

1031.623	4.702	3.04	25.8	0.745	0.36	41.1	2.440	2.10	41.9	16.935	10.53	401.1
1032.000	4.479	1.73	27.5	1.125	0.35	41.5	0.356	0.53	42.4	16.853	6.37	407.5
1032.756	4.037	3.22	30.7	1.022	0.81	42.3	0.000	0.13	42.5	14.582	11.88	419.4
1033.000	3.892	0.97	31.7	0.984	0.24	42.5	0.000	0.00	42.5	14.219	3.51	422.9
1033.495	3.594	1.85	33.5	0.901	0.47	43.0	0.000	0.00	42.5	13.511	6.86	429.8
1034.000	3.285	1.74	35.3	0.805	0.43	43.4	0.000	0.00	42.5	12.830	6.65	436.4

Istram 23.02.02.20 21/02/23 13:20:20 60 pagina 2
PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1034.356	3.097	1.14	36.4	0.678	0.26	43.7	0.000	0.00	42.5	12.426	4.50	440.9
1035.000	2.736	1.88	38.3	0.447	0.36	44.0	0.000	0.00	42.5	11.729	7.78	448.7
1035.457	2.457	1.19	39.5	0.283	0.17	44.2	0.000	0.00	42.5	11.260	5.25	453.9
1036.000	2.106	1.24	40.7	0.087	0.10	44.3	0.000	0.00	42.5	10.731	5.97	459.9
1036.523	1.846	1.03	41.8	0.000	0.02	44.3	0.000	0.00	42.5	10.143	5.46	465.4
1037.000	1.596	0.82	42.6	0.000	0.00	44.3	0.000	0.00	42.5	10.415	4.90	470.3
1038.000	1.027	1.31	43.9	0.000	0.00	44.3	0.000	0.00	42.5	11.013	10.71	481.0
1039.000	0.285	0.66	44.5	0.000	0.00	44.3	0.000	0.00	42.5	11.484	11.25	492.2
1040.000	0.000	0.14	44.7	0.000	0.00	44.3	0.000	0.00	42.5	11.911	11.70	503.9
1041.000	0.000	0.00	44.7	0.000	0.00	44.3	0.000	0.00	42.5	12.589	12.25	516.2
1042.000	0.000	0.00	44.7	0.000	0.00	44.3	0.017	0.01	42.5	13.310	12.95	529.1
1043.000	0.000	0.00	44.7	0.000	0.00	44.3	1.039	0.53	43.1	13.558	13.43	542.6
1044.000	0.000	0.00	44.7	0.000	0.00	44.3	2.442	1.74	44.8	13.557	13.56	556.1
1045.000	0.000	0.00	44.7	0.000	0.00	44.3	3.628	3.04	47.8	13.557	13.56	569.7
1046.000	0.000	0.00	44.7	0.000	0.00	44.3	4.766	4.20	52.0	13.556	13.56	583.2
1047.000	0.000	0.00	44.7	0.000	0.00	44.3	6.295	5.53	57.6	13.556	13.56	596.8
1048.000	0.000	0.00	44.7	0.000	0.00	44.3	7.903	7.10	64.7	13.556	13.56	610.3
1049.000	0.000	0.00	44.7	0.000	0.00	44.3	8.924	8.41	73.1	13.555	13.56	623.9
1050.000	0.000	0.00	44.7	0.000	0.00	44.3	9.873	9.40	82.5	13.555	13.55	637.5
1051.000	0.000	0.00	44.7	0.000	0.00	44.3	6.173	8.02	90.5	13.554	13.55	651.0
1052.000	0.000	0.00	44.7	0.000	0.00	44.3	3.831	5.00	95.5	13.553	13.55	664.6
1053.000	0.000	0.00	44.7	0.000	0.00	44.3	1.164	2.50	98.0	13.008	13.28	677.8
1054.000	24.287	12.14	56.8	13.104	6.55	50.9	0.000	0.58	98.6	0.000	6.50	684.4
1055.000	24.111	24.20	81.0	12.442	12.77	63.7	0.000	0.00	98.6	0.000	0.00	684.4
1056.000	23.934	24.02	105.0	11.820	12.13	75.8	0.000	0.00	98.6	0.000	0.00	684.4
1057.000	15.537	19.74	124.8	2.818	7.32	83.1	0.000	0.00	98.6	8.419	4.21	688.6
1058.000	0.000	7.77	132.5	0.000	1.41	84.5	0.000	0.00	98.6	11.039	9.73	698.3
1058.349	0.000	0.00	132.5	0.000	0.00	84.5	0.632	0.11	98.7	10.847	3.82	702.1
1059.000	0.000	0.00	132.5	0.000	0.00	84.5	1.970	0.85	99.5	11.397	7.24	709.3
1059.676	0.000	0.00	132.5	0.000	0.00	84.5	3.247	1.76	101.3	11.992	7.91	717.3
1060.000	0.000	0.00	132.5	0.000	0.00	84.5	3.827	1.15	102.4	12.286	3.93	721.2

1061.000	0.000	0.00	132.5	0.000	0.00	84.5	4.347	4.09	106.5	13.231	12.76	733.9
1061.006	0.000	0.00	132.5	0.000	0.00	84.5	4.350	0.03	106.6	13.237	0.08	734.0
1062.000	0.000	0.00	132.5	0.000	0.00	84.5	5.061	4.68	111.2	14.236	13.65	747.7
1062.441	0.000	0.00	132.5	0.000	0.00	84.5	5.164	2.25	113.5	14.699	6.38	754.1
1063.000	0.000	0.00	132.5	0.000	0.00	84.5	5.308	2.93	116.4	15.305	8.39	762.4
1063.765	0.000	0.00	132.5	0.000	0.00	84.5	5.533	4.15	120.6	16.170	12.04	774.5
1064.000	0.000	0.00	132.5	0.000	0.00	84.5	5.609	1.31	121.9	16.631	3.85	778.3
1064.380	0.000	0.00	132.5	0.000	0.00	84.5	5.144	2.04	123.9	17.397	6.47	784.8
1065.000	0.000	0.00	132.5	0.000	0.00	84.5	4.571	3.01	126.9	18.003	10.97	795.8
1065.161	0.000	0.00	132.5	0.000	0.00	84.5	4.219	0.71	127.6	17.864	2.89	798.7
1065.994	0.000	0.00	132.5	2.231	0.93	85.5	2.946	2.98	130.6	16.590	14.35	813.0
1066.000	0.000	0.00	132.5	2.318	0.01	85.5	2.937	0.02	130.6	16.509	0.10	813.1
1066.875	0.000	0.00	132.5	7.453	4.27	89.7	1.623	2.00	132.6	11.267	12.15	825.3

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLEN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1067.000	0.000	0.00	132.5	9.029	1.03	90.8	1.429	0.19	132.8	9.685	1.31	826.6
1067.794	0.000	0.00	132.5	12.777	8.66	99.4	0.152	0.63	133.4	5.904	6.19	832.8
1068.000	0.000	0.00	132.5	13.606	2.72	102.1	0.000	0.02	133.5	4.911	1.11	833.9
1068.744	0.639	0.24	132.8	16.097	11.05	113.2	0.000	0.00	133.5	1.911	2.54	836.4
1069.000	1.066	0.22	133.0	16.228	4.14	117.3	0.000	0.00	133.5	1.235	0.40	836.8
1069.714	2.208	1.17	134.2	16.602	11.72	129.1	0.000	0.00	133.5	0.742	0.71	837.5
1070.000	2.646	0.69	134.9	16.748	4.77	133.8	0.000	0.00	133.5	0.580	0.19	837.7
1070.695	3.656	2.19	137.1	17.021	11.73	145.6	0.000	0.00	133.5	0.271	0.30	838.0
1071.000	4.082	1.18	138.2	17.131	5.21	150.8	0.000	0.00	133.5	0.178	0.07	838.1
1071.676	4.989	3.07	141.3	17.345	11.65	162.4	0.000	0.00	133.5	0.000	0.06	838.1
1072.000	5.407	1.68	143.0	17.400	5.63	168.0	0.000	0.00	133.5	0.000	0.00	838.1
1072.646	6.199	3.75	146.7	17.510	11.28	179.3	0.000	0.00	133.5	0.000	0.00	838.1
1073.000	6.617	2.27	149.0	17.612	6.22	185.5	0.000	0.00	133.5	0.000	0.00	838.1
1073.595	7.297	4.14	153.1	17.786	10.53	196.1	0.000	0.00	133.5	0.000	0.00	838.1
1074.000	7.744	3.05	156.2	17.954	7.24	203.3	0.000	0.00	133.5	0.000	0.00	838.1
1074.515	8.134	4.09	160.3	18.185	9.31	212.6	0.000	0.00	133.5	0.000	0.00	838.1
1075.000	8.708	4.08	164.4	18.444	8.88	221.5	0.000	0.00	133.5	0.000	0.00	838.1
1075.394	9.073	3.50	167.9	18.732	7.32	228.8	0.000	0.00	133.5	0.000	0.00	838.1
1076.000	9.611	5.66	173.5	16.968	10.82	239.6	0.000	0.00	133.5	0.000	0.00	838.1
1076.546	9.822	5.31	178.8	14.582	8.61	248.2	0.000	0.00	133.5	0.000	0.00	838.1
1077.000	10.100	4.52	183.4	13.994	6.49	254.7	0.000	0.00	133.5	0.000	0.00	838.1
1077.376	10.473	3.87	187.2	13.521	5.17	259.9	0.000	0.00	133.5	0.000	0.00	838.1
1078.000	11.202	6.76	194.0	12.761	8.20	268.1	0.000	0.00	133.5	0.000	0.00	838.1
1078.443	11.242	4.97	199.0	12.240	5.54	273.6	0.000	0.00	133.5	0.000	0.00	838.1

1079.000	11.322	6.28	205.2	11.606	6.64	280.3	0.000	0.00	133.5	0.000	0.00	838.1
1079.536	11.473	6.11	211.3	11.016	6.06	286.3	0.000	0.00	133.5	0.000	0.00	838.1
1080.000	11.796	5.40	216.7	10.522	5.00	291.3	0.000	0.00	133.5	0.000	0.00	838.1
1080.368	11.771	4.34	221.1	10.141	3.80	295.1	0.000	0.00	133.5	0.000	0.00	838.1
1081.000	11.728	7.43	228.5	10.416	6.50	301.6	0.000	0.00	133.5	0.000	0.00	838.1
1082.000	11.661	11.69	240.2	10.876	10.65	312.3	0.000	0.00	133.5	0.000	0.00	838.1
1083.000	11.599	11.63	251.8	11.368	11.12	323.4	0.000	0.00	133.5	0.000	0.00	838.1
1084.000	11.536	11.57	263.4	11.894	11.63	335.0	0.000	0.00	133.5	0.000	0.00	838.1
1085.000	11.480	11.51	274.9	12.454	12.17	347.2	0.000	0.00	133.5	0.000	0.00	838.1
1086.000	11.424	11.45	286.4	13.051	12.75	360.0	0.000	0.00	133.5	0.000	0.00	838.1
1087.000	11.397	11.41	297.8	13.686	13.37	373.3	0.000	0.00	133.5	0.000	0.00	838.1
1088.000	11.370	11.38	309.2	14.361	14.02	387.4	0.000	0.00	133.5	0.000	0.00	838.1
1089.000	11.369	11.37	320.5	14.934	14.65	402.0	0.260	0.13	133.6	0.000	0.00	838.1
1090.000	11.368	11.37	331.9	14.934	14.93	416.9	0.395	0.33	133.9	0.000	0.00	838.1
1091.000	25.666	18.52	350.4	14.251	14.59	431.5	0.000	0.20	134.1	0.000	0.00	838.1
1092.000	25.465	25.57	376.0	13.424	13.84	445.4	0.000	0.00	134.1	0.000	0.00	838.1
1093.000	25.254	25.36	401.3	12.693	13.06	458.4	0.000	0.00	134.1	0.000	0.00	838.1
1094.000	25.041	25.15	426.5	12.002	12.35	470.8	0.000	0.00	134.1	0.000	0.00	838.1
1095.000	24.825	24.93	451.4	11.346	11.67	482.5	0.000	0.00	134.1	0.000	0.00	838.1
1096.000	24.604	24.71	476.1	10.730	11.04	493.5	0.000	0.00	134.1	0.000	0.00	838.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1097.000	24.382	24.49	500.6	10.151	10.44	503.9	0.000	0.00	134.1	0.000	0.00	838.1
1097.018	24.378	0.44	501.1	10.141	0.18	504.1	0.000	0.00	134.1	0.000	0.00	838.1
1098.000	24.157	23.83	524.9	10.920	10.34	514.5	0.000	0.00	134.1	0.000	0.00	838.1
1098.418	24.059	10.08	535.0	11.265	4.64	519.1	0.000	0.00	134.1	0.000	0.00	838.1
1099.000	23.923	13.96	548.9	11.761	6.70	525.8	0.000	0.00	134.1	0.000	0.00	838.1
1099.357	23.839	8.53	557.5	12.074	4.25	530.0	0.000	0.00	134.1	0.000	0.00	838.1
1099.686	23.761	7.83	565.3	12.369	4.02	534.1	0.000	0.00	134.1	0.000	0.00	838.1
1100.000	23.685	7.45	572.7	12.655	3.93	538.0	0.000	0.00	134.1	0.000	0.00	838.1
1100.005	23.684	0.12	572.9	12.660	0.06	538.1	0.000	0.00	134.1	0.000	0.00	838.1
1101.000	23.441	23.44	596.3	13.606	13.07	551.1	0.000	0.00	134.1	0.000	0.00	838.1
1101.405	23.341	9.47	605.8	14.007	5.59	556.7	0.000	0.00	134.1	0.000	0.00	838.1
1101.520	23.313	2.68	608.5	14.123	1.62	558.3	0.000	0.00	134.1	0.000	0.00	838.1
1102.000	23.192	11.16	619.6	14.616	6.90	565.2	0.000	0.00	134.1	0.000	0.00	838.1
1102.232	23.134	5.37	625.0	14.860	3.42	568.7	0.000	0.00	134.1	0.000	0.00	838.1
1102.443	23.080	4.88	629.9	15.084	3.16	571.8	0.000	0.00	134.1	0.000	0.00	838.1
1102.489	23.069	1.06	630.9	15.133	0.70	572.5	0.000	0.00	134.1	0.000	0.00	838.1
1102.785	22.993	6.82	637.7	15.454	4.53	577.0	0.000	0.00	134.1	0.000	0.00	838.1

1102.810	22.987	0.57	638.3	15.483	0.39	577.4	0.000	0.00	134.1	0.000	0.00	838.1
1102.843	22.978	0.76	639.1	15.651	0.51	577.9	0.000	0.00	134.1	0.000	0.00	838.1
1102.922	22.940	1.81	640.9	16.058	1.25	579.2	0.000	0.00	134.1	0.000	0.00	838.1
1102.970	22.856	1.10	642.0	16.308	0.78	580.0	0.000	0.00	134.1	0.000	0.00	838.1
1103.000	22.808	0.68	642.7	16.466	0.49	580.5	0.000	0.00	134.1	0.000	0.00	838.1
1103.038	22.748	0.87	643.5	16.667	0.63	581.1	0.000	0.00	134.1	0.000	0.00	838.1
1103.090	22.667	1.18	644.7	16.945	0.87	582.0	0.000	0.00	134.1	0.000	0.00	838.1
1103.101	22.650	0.25	645.0	17.004	0.19	582.1	0.000	0.00	134.1	0.000	0.00	838.1
1103.208	22.484	2.41	647.4	17.585	1.85	584.0	0.000	0.00	134.1	0.000	0.00	838.1
1103.628	21.827	9.31	656.7	18.149	7.50	591.5	0.000	0.00	134.1	0.000	0.00	838.1
1103.707	21.702	1.72	658.4	18.073	1.43	592.9	0.000	0.00	134.1	0.000	0.00	838.1
1103.938	21.337	4.97	663.4	17.853	4.15	597.1	0.000	0.00	134.1	0.000	0.00	838.1
1104.000	21.239	1.32	664.7	17.794	1.11	598.2	0.000	0.00	134.1	0.000	0.00	838.1
1104.116	21.055	2.45	667.2	17.685	2.06	600.2	0.000	0.00	134.1	0.000	0.00	838.1
1104.308	20.748	4.01	671.2	17.506	3.38	603.6	0.000	0.00	134.1	0.000	0.00	838.1
1104.365	20.723	1.18	672.4	17.453	1.00	604.6	0.000	0.00	134.1	0.000	0.00	838.1
1104.961	20.463	12.27	684.6	17.178	10.32	614.9	0.000	0.00	134.1	0.000	0.00	838.1
1105.000	20.462	0.80	685.4	17.163	0.67	615.6	0.000	0.00	134.1	0.000	0.00	838.1
1105.055	20.460	1.13	686.5	17.142	0.94	616.5	0.000	0.00	134.1	0.000	0.00	838.1
1105.203	20.457	3.03	689.6	17.084	2.53	619.1	0.000	0.00	134.1	0.000	0.00	838.1
1105.718	20.450	10.53	700.1	16.891	8.75	627.8	0.000	0.00	134.1	0.000	0.00	838.1
1105.772	20.449	1.10	701.2	16.871	0.91	628.7	0.000	0.00	134.1	0.000	0.00	838.1
1106.000	20.449	4.66	705.9	16.789	3.84	632.6	0.000	0.00	134.1	0.000	0.00	838.1
1106.273	20.448	5.58	711.5	16.692	4.57	637.1	0.000	0.00	134.1	0.000	0.00	838.1
1106.507	20.484	4.79	716.2	16.649	3.90	641.1	0.000	0.00	134.1	0.000	0.00	838.1
1107.000	20.560	10.12	726.4	16.618	8.20	649.3	0.000	0.00	134.1	0.000	0.00	838.1
1107.173	20.588	3.56	729.9	16.608	2.87	652.1	0.000	0.00	134.1	0.000	0.00	838.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1107.251	20.597	1.61	731.5	16.604	1.30	653.4	0.000	0.00	134.1	0.000	0.00	838.1
1107.813	20.664	11.59	743.1	16.578	9.32	662.7	0.000	0.00	134.1	0.000	0.00	838.1
1107.997	20.684	3.80	746.9	16.572	3.05	665.8	0.000	0.00	134.1	0.000	0.00	838.1
1108.481	20.730	10.02	757.0	16.559	8.02	673.8	0.000	0.00	134.1	0.000	0.00	838.1
1108.734	20.750	5.25	762.2	16.608	4.20	678.0	0.000	0.00	134.1	0.000	0.00	838.1
1108.825	20.757	1.89	764.1	16.632	1.51	679.5	0.000	0.00	134.1	0.000	0.00	838.1
1109.000	20.759	3.63	767.7	16.679	2.91	682.4	0.000	0.00	134.1	0.000	0.00	838.1
1109.455	20.764	9.45	777.2	16.806	7.62	690.1	0.000	0.00	134.1	0.000	0.00	838.1
1109.895	20.769	9.14	786.3	16.935	7.42	697.5	0.000	0.00	134.1	0.000	0.00	838.1
1110.000	20.761	2.18	788.5	16.967	1.78	699.3	0.000	0.00	134.1	0.000	0.00	838.1

1110.152	20.764	3.16	791.6	17.013	2.58	701.8	0.000	0.00	134.1	0.000	0.00	838.1
1110.817	20.779	13.81	805.5	17.363	11.43	713.3	0.000	0.00	134.1	0.000	0.00	838.1
1111.000	20.783	3.80	809.3	17.475	3.19	716.5	0.000	0.00	134.1	0.000	0.00	838.1
1111.397	20.715	8.24	817.5	17.724	6.99	723.4	0.000	0.00	134.1	0.000	0.00	838.1
1111.559	20.671	3.35	820.8	17.753	2.87	726.3	0.000	0.00	134.1	0.000	0.00	838.1
1112.000	20.551	9.09	829.9	15.796	7.40	733.7	0.000	0.00	134.1	0.000	0.00	838.1
1112.021	20.546	0.43	830.4	15.706	0.33	734.0	0.000	0.00	134.1	0.000	0.00	838.1
1112.176	20.503	3.18	833.5	15.506	2.42	736.5	0.000	0.00	134.1	0.000	0.00	838.1
1113.000	20.275	16.80	850.3	14.491	12.36	748.8	0.000	0.00	134.1	0.000	0.00	838.1
1113.237	20.209	4.80	855.1	14.209	3.40	752.2	0.000	0.00	134.1	0.000	0.00	838.1
1113.363	20.174	2.54	857.7	14.060	1.78	754.0	0.000	0.00	134.1	0.000	0.00	838.1
1114.000	20.131	12.84	870.5	13.329	8.72	762.7	0.000	0.00	134.1	0.000	0.00	838.1
1114.538	19.901	10.77	881.3	12.734	7.01	769.7	0.000	0.00	134.1	0.000	0.00	838.1
1115.000	19.786	9.17	890.5	12.238	5.77	775.5	0.000	0.00	134.1	0.000	0.00	838.1
1115.296	19.714	5.85	896.3	11.929	3.58	779.1	0.000	0.00	134.1	0.000	0.00	838.1
1115.792	19.574	9.74	906.1	11.422	5.79	784.9	0.000	0.00	134.1	0.000	0.00	838.1
1116.000	19.514	4.07	910.1	11.215	2.35	787.2	0.000	0.00	134.1	0.000	0.00	838.1
1116.028	19.505	0.55	910.7	11.187	0.31	787.5	0.000	0.00	134.1	0.000	0.00	838.1
1117.000	19.178	18.80	929.5	10.253	10.42	798.0	0.000	0.00	134.1	0.000	0.00	838.1
1117.069	19.154	1.32	930.8	10.188	0.71	798.7	0.000	0.00	134.1	0.000	0.00	838.1
1117.118	19.146	0.94	931.7	10.143	0.50	799.2	0.000	0.00	134.1	0.000	0.00	838.1
1117.719	19.046	11.48	943.2	10.589	6.23	805.4	0.000	0.00	134.1	0.000	0.00	838.1
1118.000	18.999	5.35	948.5	10.804	3.01	808.4	0.000	0.00	134.1	0.000	0.00	838.1
1118.029	18.995	0.55	949.1	10.826	0.31	808.7	0.000	0.00	134.1	0.000	0.00	838.1
1118.623	18.886	11.25	960.3	11.245	6.56	815.3	0.000	0.00	134.1	0.000	0.00	838.1
1119.000	18.812	7.11	967.5	11.443	4.28	819.5	0.000	0.00	134.1	0.000	0.00	838.1
1119.178	18.777	3.35	970.8	11.538	2.05	821.6	0.000	0.00	134.1	0.000	0.00	838.1
1119.443	18.726	4.97	975.8	11.682	3.08	824.7	0.000	0.00	134.1	0.000	0.00	838.1
1119.698	18.675	4.77	980.5	11.822	3.00	827.7	0.000	0.00	134.1	0.000	0.00	838.1
1119.944	18.626	4.59	985.1	11.960	2.93	830.6	0.000	0.00	134.1	0.000	0.00	838.1
1120.000	18.615	1.04	986.2	11.991	0.67	831.3	0.000	0.00	134.1	0.000	0.00	838.1
1120.629	18.490	11.67	997.8	12.359	7.66	838.9	0.000	0.00	134.1	0.000	0.00	838.1
1121.000	18.425	6.85	1004.7	12.587	4.63	843.5	0.000	0.00	134.1	0.000	0.00	838.1
1121.774	18.289	14.21	1018.9	13.080	9.93	853.5	0.000	0.00	134.1	0.000	0.00	838.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1122.000	18.251	4.13	1023.0	13.228	2.97	856.5	0.000	0.00	134.1	0.000	0.00	838.1
1122.379	17.675	6.81	1029.8	13.482	5.06	861.5	0.000	0.00	134.1	0.000	0.00	838.1
1122.638	17.606	4.57	1034.4	13.658	3.51	865.0	0.000	0.00	134.1	0.000	0.00	838.1

1122.869	17.547	4.06	1038.5	13.819	3.17	868.2	0.000	0.00	134.1	0.000	0.00	838.1
1122.974	17.521	1.84	1040.3	13.892	1.45	869.7	0.000	0.00	134.1	0.000	0.00	838.1
1123.000	17.515	0.46	1040.8	13.911	0.36	870.0	0.000	0.00	134.1	0.000	0.00	838.1
1123.073	17.497	1.28	1042.0	13.962	1.02	871.0	0.000	0.00	134.1	0.000	0.00	838.1
1123.165	17.475	1.61	1043.6	14.028	1.29	872.3	0.000	0.00	134.1	0.000	0.00	838.1
1123.251	17.454	1.50	1045.1	14.089	1.21	873.5	0.000	0.00	134.1	0.000	0.00	838.1
1123.332	17.435	1.41	1046.6	14.147	1.14	874.7	0.000	0.00	134.1	0.000	0.00	838.1
1123.478	17.400	2.54	1049.1	14.253	2.07	876.7	0.000	0.00	134.1	0.000	0.00	838.1
1123.545	17.385	1.17	1050.3	14.301	0.96	877.7	0.000	0.00	134.1	0.000	0.00	838.1
1123.730	17.342	3.21	1053.5	14.437	2.66	880.4	0.000	0.00	134.1	0.000	0.00	838.1
1124.000	17.282	4.67	1058.2	14.637	3.93	884.3	0.000	0.00	134.1	0.000	0.00	838.1
1124.039	17.273	0.67	1058.8	14.667	0.57	884.9	0.000	0.00	134.1	0.000	0.00	838.1
1124.166	17.245	2.19	1061.0	14.762	1.87	886.7	0.000	0.00	134.1	0.000	0.00	838.1
1124.276	17.143	1.89	1062.9	14.846	1.63	888.4	0.000	0.00	134.1	0.000	0.00	838.1
1124.424	17.097	2.53	1065.4	14.926	2.20	890.6	0.060	0.00	134.1	0.000	0.00	838.1
1124.472	17.081	0.82	1066.3	14.926	0.72	891.3	0.126	0.00	134.1	0.000	0.00	838.1
1124.614	17.034	2.42	1068.7	14.926	2.12	893.4	0.324	0.03	134.2	0.000	0.00	838.1
1124.623	17.031	0.15	1068.8	14.926	0.13	893.5	0.336	0.00	134.2	0.000	0.00	838.1
1124.631	17.028	0.14	1069.0	14.926	0.12	893.6	0.347	0.00	134.2	0.000	0.00	838.1
1124.637	17.026	0.10	1069.1	14.926	0.09	893.7	0.356	0.00	134.2	0.000	0.00	838.1
1124.642	17.024	0.09	1069.2	14.926	0.07	893.8	0.363	0.00	134.2	0.000	0.00	838.1
1124.647	17.022	0.09	1069.2	14.926	0.07	893.9	0.370	0.00	134.2	0.000	0.00	838.1
1124.692	17.007	0.77	1070.0	14.926	0.67	894.6	0.433	0.02	134.2	0.000	0.00	838.1
1124.704	17.002	0.20	1070.2	14.926	0.18	894.7	0.450	0.01	134.2	0.000	0.00	838.1
1124.733	16.991	0.49	1070.7	14.926	0.43	895.2	0.490	0.01	134.2	0.000	0.00	838.1
1124.768	16.979	0.59	1071.3	14.926	0.52	895.7	0.540	0.02	134.2	0.000	0.00	838.1
1125.000	16.919	3.93	1075.2	14.926	3.46	899.2	0.000	0.06	134.3	0.000	0.00	838.1
1125.140	16.884	2.37	1077.6	14.926	2.09	901.2	0.000	0.00	134.3	0.000	0.00	838.1
1125.286	16.850	2.46	1080.1	14.926	2.18	903.4	0.000	0.00	134.3	0.000	0.00	838.1
1125.366	16.831	1.35	1081.4	14.926	1.19	904.6	0.000	0.00	134.3	0.000	0.00	838.1
1125.450	16.812	1.41	1082.8	14.926	1.25	905.9	0.000	0.00	134.3	0.000	0.00	838.1
1126.000	16.687	9.21	1092.0	14.926	8.21	914.1	0.000	0.00	134.3	0.000	0.00	838.1
1126.996	13.988	15.28	1107.3	14.926	14.87	928.9	0.000	0.00	134.3	0.000	0.00	838.1
1127.550	13.946	7.74	1115.1	14.926	8.27	937.2	0.146	0.04	134.3	0.000	0.00	838.1
1128.000	13.914	6.27	1121.3	14.669	6.66	943.9	0.000	0.03	134.4	0.000	0.00	838.1
1128.068	13.909	0.95	1122.3	14.618	1.00	944.9	0.000	0.00	134.4	0.000	0.00	838.1
1129.000	13.843	12.93	1135.2	13.950	13.31	958.2	0.000	0.00	134.4	0.000	0.00	838.1
1129.272	13.825	3.76	1139.0	13.762	3.77	962.0	0.000	0.00	134.4	0.000	0.00	838.1
1129.785	13.791	7.08	1146.0	13.408	6.97	968.9	0.000	0.00	134.4	0.000	0.00	838.1
1130.000	13.777	2.96	1149.0	13.263	2.87	971.8	0.000	0.00	134.4	0.000	0.00	838.1
1130.493	7.663	5.28	1154.3	12.937	6.46	978.2	0.000	0.00	134.4	0.000	0.00	838.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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DESMONTE TERRAPLÉN

P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1131.000	7.632	3.88	1158.2	12.611	6.48	984.7	0.000	0.00	134.4	0.000	0.00	838.1
1131.040	7.629	0.31	1158.5	12.586	0.50	985.2	0.000	0.00	134.4	0.000	0.00	838.1
1131.505	7.602	3.54	1162.0	12.297	5.79	991.0	0.000	0.00	134.4	0.000	0.00	838.1
1132.000	5.340	3.20	1165.2	11.996	6.01	997.0	0.000	0.00	134.4	0.000	0.00	838.1
1133.000	4.032	4.69	1169.9	11.412	11.70	1008.7	0.000	0.00	134.4	0.000	0.00	838.1
1133.019	4.015	0.08	1170.0	11.402	0.22	1008.9	0.000	0.00	134.4	0.000	0.00	838.1
1133.113	3.999	0.38	1170.4	11.349	1.07	1010.0	0.000	0.00	134.4	0.000	0.00	838.1
1133.300	3.967	0.74	1171.1	11.244	2.11	1012.1	0.000	0.00	134.4	0.000	0.00	838.1
1133.672	3.903	1.46	1172.6	11.018	4.14	1016.3	0.000	0.00	134.4	0.000	0.00	838.1
1133.857	3.871	0.72	1173.3	10.881	2.03	1018.3	0.000	0.00	134.4	0.000	0.00	838.1
1134.000	3.847	0.55	1173.8	10.776	1.55	1019.8	0.000	0.00	134.4	0.000	0.00	838.1
1134.042	3.840	0.16	1174.0	10.745	0.45	1020.3	0.000	0.00	134.4	0.000	0.00	838.1
1134.226	3.808	0.70	1174.7	10.611	1.96	1022.3	0.000	0.00	134.4	0.000	0.00	838.1
1134.409	3.776	0.69	1175.4	10.480	1.93	1024.2	0.000	0.00	134.4	0.000	0.00	838.1
1134.773	3.712	1.36	1176.8	10.223	3.77	1028.0	0.000	0.00	134.4	0.000	0.00	838.1
1134.886	3.693	0.42	1177.2	10.144	1.15	1029.1	0.000	0.00	134.4	0.000	0.00	838.1
1135.000	3.674	0.42	1177.6	10.249	1.16	1030.3	0.000	0.00	134.4	0.000	0.00	838.1
1135.313	3.621	1.14	1178.7	10.544	3.25	1033.5	0.000	0.00	134.4	0.000	0.00	838.1
1135.670	3.553	1.28	1180.0	10.887	3.83	1037.4	0.000	0.00	134.4	0.000	0.00	838.1
1136.000	3.487	1.16	1181.2	11.211	3.65	1041.0	0.000	0.00	134.4	0.000	0.00	838.1
1136.287	3.429	0.99	1182.2	11.498	3.26	1044.3	0.000	0.00	134.4	0.000	0.00	838.1
1136.428	3.401	0.48	1182.7	11.641	1.63	1045.9	0.000	0.00	134.4	0.000	0.00	838.1
1136.462	3.394	0.12	1182.8	11.676	0.40	1046.3	0.000	0.00	134.4	0.000	0.00	838.1
1136.982	3.287	1.74	1184.5	12.216	6.21	1052.5	0.000	0.00	134.4	0.000	0.00	838.1
1137.000	3.283	0.06	1184.6	12.235	0.22	1052.7	0.000	0.00	134.4	0.000	0.00	838.1
1137.154	3.251	0.50	1185.1	12.398	1.90	1054.6	0.000	0.00	134.4	0.000	0.00	838.1
1137.412	3.197	0.83	1185.9	12.675	3.23	1057.8	0.000	0.00	134.4	0.000	0.00	838.1
1137.584	3.154	0.55	1186.4	12.863	2.20	1060.0	0.000	0.00	134.4	0.000	0.00	838.1
1137.868	3.081	0.89	1187.3	13.177	3.70	1063.7	0.000	0.00	134.4	0.000	0.00	838.1
1138.000	3.048	0.40	1187.7	13.324	1.75	1065.5	0.000	0.00	134.4	0.000	0.00	838.1
1138.018	3.043	0.05	1187.8	13.345	0.24	1065.7	0.000	0.00	134.4	0.000	0.00	838.1
1138.194	2.999	0.53	1188.3	13.544	2.37	1068.1	0.000	0.00	134.4	0.000	0.00	838.1
1138.283	2.977	0.27	1188.6	13.646	1.21	1069.3	0.000	0.00	134.4	0.000	0.00	838.1
1139.000	2.798	2.07	1190.7	14.486	10.09	1079.4	0.000	0.00	134.4	0.000	0.00	838.1
1139.132	2.766	0.37	1191.0	14.645	1.92	1081.3	0.000	0.00	134.4	0.000	0.00	838.1
1139.179	2.754	0.13	1191.2	14.702	0.69	1082.0	0.000	0.00	134.4	0.000	0.00	838.1
1140.000	2.550	2.18	1193.3	15.725	12.49	1094.5	0.000	0.00	134.4	0.000	0.00	838.1
1140.096	2.526	0.24	1193.6	15.848	1.52	1096.0	0.000	0.00	134.4	0.000	0.00	838.1
1140.707	2.375	1.50	1195.1	16.652	9.93	1105.9	0.000	0.00	134.4	0.000	0.00	838.1
1141.000	2.303	0.69	1195.8	17.524	5.01	1110.9	0.000	0.00	134.4	0.000	0.00	838.1
1141.028	2.296	0.06	1195.8	17.609	0.49	1111.4	0.000	0.00	134.4	0.000	0.00	838.1
1142.000	2.057	2.12	1197.9	20.526	18.53	1130.0	0.366	0.18	134.5	0.000	0.00	838.1
1142.400	2.748	0.96	1198.9	20.131	8.13	1138.1	0.000	0.07	134.6	0.000	0.00	838.1
1143.000	4.913	2.30	1201.2	16.692	11.05	1149.1	0.000	0.00	134.6	2.948	0.88	839.0

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1143.911	2.800	3.51	1204.7	14.098	14.02	1163.2	0.000	0.00	134.6	4.836	3.55	842.6
1144.000	1.490	0.19	1204.9	12.502	1.18	1164.4	0.000	0.00	134.6	4.000	0.39	843.0
1145.000	2.662	2.08	1207.0	6.286	9.39	1173.8	0.000	0.00	134.6	11.964	7.98	850.9
1145.517	2.565	1.35	1208.3	3.706	2.58	1176.3	0.000	0.00	134.6	14.217	6.77	857.7
1146.000	2.440	1.21	1209.5	3.108	1.65	1178.0	0.000	0.00	134.6	14.535	6.94	864.7
1146.836	2.356	2.00	1211.5	4.166	3.04	1181.0	0.000	0.00	134.6	13.037	11.53	876.2
1146.942	2.339	0.25	1211.8	4.292	0.45	1181.5	0.000	0.00	134.6	12.855	1.37	877.6
1147.000	2.329	0.14	1211.9	4.361	0.25	1181.7	0.000	0.00	134.6	12.756	0.74	878.3
1147.006	2.328	0.01	1211.9	4.368	0.03	1181.7	0.000	0.00	134.6	12.746	0.08	878.4
1147.066	2.318	0.14	1212.1	4.438	0.26	1182.0	0.000	0.00	134.6	12.644	0.76	879.1
1147.095	2.313	0.07	1212.2	4.472	0.13	1182.1	0.000	0.00	134.6	12.595	0.37	879.5
1147.213	2.293	0.27	1212.4	4.608	0.54	1182.7	0.000	0.00	134.6	12.397	1.47	881.0
1147.231	2.290	0.04	1212.5	4.631	0.08	1182.8	0.000	0.00	134.6	12.367	0.22	881.2
1147.492	2.247	0.59	1213.1	4.976	1.25	1184.0	0.000	0.00	134.6	11.912	3.17	884.4
1147.745	2.201	0.56	1213.6	5.322	1.30	1185.3	0.000	0.00	134.6	11.460	2.96	887.3
1147.988	2.156	0.53	1214.1	5.646	1.33	1186.6	0.000	0.00	134.6	11.034	2.73	890.1
1148.000	2.153	0.03	1214.2	5.662	0.07	1186.7	0.000	0.00	134.6	11.014	0.13	890.2
1148.224	2.109	0.48	1214.7	5.953	1.30	1188.0	0.000	0.00	134.6	10.628	2.42	892.6
1148.366	2.083	0.30	1215.0	6.135	0.86	1188.9	0.000	0.00	134.6	10.387	1.49	894.1
1148.416	2.074	0.10	1215.1	6.200	0.31	1189.2	0.000	0.00	134.6	10.301	0.52	894.6
1148.470	2.064	0.11	1215.2	6.274	0.34	1189.5	0.000	0.00	134.6	10.205	0.55	895.2
1148.795	2.002	0.66	1215.8	6.706	2.11	1191.6	0.000	0.00	134.6	9.637	3.22	898.4
1148.988	1.964	0.38	1216.2	6.956	1.32	1192.9	0.000	0.00	134.6	9.307	1.83	900.2
1149.000	1.962	0.02	1216.2	6.972	0.08	1193.0	0.000	0.00	134.6	9.287	0.11	900.3
1149.033	1.956	0.06	1216.3	7.018	0.23	1193.3	0.000	0.00	134.6	9.231	0.31	900.6
1149.208	1.933	0.34	1216.6	7.251	1.25	1194.5	0.000	0.00	134.6	8.942	1.59	902.2
1149.402	1.909	0.37	1217.0	7.507	1.43	1195.9	0.000	0.00	134.6	8.626	1.70	903.9
1149.494	1.897	0.18	1217.2	7.626	0.70	1196.6	0.000	0.00	134.6	8.478	0.79	904.7
1149.699	1.867	0.39	1217.6	7.889	1.59	1198.2	0.000	0.00	134.6	8.153	1.70	906.4
1149.914	1.834	0.40	1218.0	8.159	1.73	1200.0	0.000	0.00	134.6	7.818	1.72	908.1
1150.000	1.819	0.16	1218.1	8.265	0.71	1200.7	0.000	0.00	134.6	7.685	0.67	908.8
1150.829	1.736	1.47	1219.6	9.225	7.25	1207.9	0.000	0.00	134.6	6.475	5.87	914.7
1150.870	1.737	0.07	1219.7	9.275	0.38	1208.3	0.000	0.00	134.6	6.418	0.26	914.9
1150.934	1.749	0.11	1219.8	9.351	0.60	1208.9	0.000	0.00	134.6	6.331	0.41	915.4
1150.998	1.761	0.11	1219.9	9.426	0.60	1209.5	0.000	0.00	134.6	6.244	0.40	915.8
1151.261	1.800	0.47	1220.4	9.735	2.52	1212.0	0.000	0.00	134.6	5.891	1.60	917.4
1151.394	1.813	0.24	1220.6	9.889	1.30	1213.3	0.000	0.00	134.6	5.717	0.77	918.1
1151.461	1.818	0.12	1220.7	9.966	0.67	1214.0	0.000	0.00	134.6	5.629	0.38	918.5
1151.529	1.823	0.12	1220.8	10.043	0.68	1214.7	0.000	0.00	134.6	5.541	0.38	918.9
1152.000	1.841	0.86	1221.7	10.566	4.85	1219.5	0.000	0.00	134.6	4.941	2.47	921.4
1152.724	1.827	1.33	1223.0	11.323	7.92	1227.4	0.000	0.00	134.6	4.303	3.35	924.7
1153.000	1.822	0.50	1223.5	11.622	3.17	1230.6	0.000	0.00	134.6	4.053	1.15	925.9
1154.000	1.808	1.81	1225.4	12.670	12.15	1242.7	0.091	0.05	134.7	3.060	3.56	929.4
1154.654	1.855	1.20	1226.6	13.475	8.55	1251.3	0.000	0.03	134.7	2.022	1.66	931.1

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1155.000	1.879	0.65	1227.2	13.934	4.74	1256.0	0.000	0.00	134.7	1.347	0.58	931.7
1156.000	2.455	2.17	1229.4	14.949	14.44	1270.5	0.000	0.00	134.7	0.000	0.67	932.3
1156.604	2.963	1.64	1231.0	14.923	9.02	1279.5	0.000	0.00	134.7	0.000	0.00	932.3
1157.000	3.289	1.24	1232.2	14.923	5.91	1285.4	0.000	0.00	134.7	0.000	0.00	932.3
1158.000	4.096	3.69	1235.9	14.923	14.92	1300.3	0.000	0.00	134.7	0.000	0.00	932.3
1159.000	4.750	4.42	1240.4	14.924	14.92	1315.3	0.000	0.00	134.7	0.000	0.00	932.3
1160.000	5.389	5.07	1245.4	14.924	14.92	1330.2	0.000	0.00	134.7	0.000	0.00	932.3
1161.000	6.091	5.74	1251.2	14.924	14.92	1345.1	0.000	0.00	134.7	0.000	0.00	932.3
1162.000	6.774	6.43	1257.6	14.925	14.92	1360.0	0.000	0.00	134.7	0.000	0.00	932.3
1163.000	7.250	7.01	1264.6	14.925	14.92	1375.0	0.000	0.00	134.7	0.000	0.00	932.3
1164.000	7.716	7.48	1272.1	14.925	14.92	1389.9	0.000	0.00	134.7	0.000	0.00	932.3
1165.000	8.258	7.99	1280.1	14.925	14.93	1404.8	0.000	0.00	134.7	0.000	0.00	932.3
1166.000	8.739	8.50	1288.6	14.925	14.93	1419.7	0.000	0.00	134.7	0.000	0.00	932.3
1167.000	9.306	9.02	1297.6	14.926	14.93	1434.7	0.000	0.00	134.7	0.000	0.00	932.3
1168.000	9.849	9.58	1307.2	14.926	14.93	1449.6	0.000	0.00	134.7	0.000	0.00	932.3
1169.000	10.425	10.14	1317.3	14.926	14.93	1464.5	0.000	0.00	134.7	0.000	0.00	932.3
1170.000	10.978	10.70	1328.0	14.926	14.93	1479.4	0.000	0.00	134.7	0.000	0.00	932.3
1171.000	11.510	11.24	1339.3	14.926	14.93	1494.4	0.000	0.00	134.7	0.000	0.00	932.3
1172.000	11.931	11.72	1351.0	14.926	14.93	1509.3	0.000	0.00	134.7	0.000	0.00	932.3
1173.000	11.607	11.77	1362.8	14.926	14.93	1524.2	0.000	0.00	134.7	0.000	0.00	932.3
1174.000	11.421	11.51	1374.3	14.926	14.93	1539.1	0.000	0.00	134.7	0.000	0.00	932.3
1175.000	10.641	11.03	1385.3	14.926	14.93	1554.1	0.000	0.00	134.7	0.000	0.00	932.3
1176.000	9.927	10.28	1395.6	14.926	14.93	1569.0	0.000	0.00	134.7	0.000	0.00	932.3
1177.000	9.220	9.57	1405.2	15.500	15.21	1584.2	0.000	0.00	134.7	0.000	0.00	932.3
1178.000	9.132	9.18	1414.3	14.927	15.21	1599.4	0.000	0.00	134.7	0.000	0.00	932.3
1179.000	9.226	9.18	1423.5	13.833	14.38	1613.8	0.000	0.00	134.7	0.445	0.22	932.6
1180.000	9.315	9.27	1432.8	12.710	13.27	1627.1	0.380	0.19	134.9	0.018	0.23	932.8
1181.000	9.373	9.34	1442.1	11.162	11.94	1639.0	2.825	1.60	136.5	1.735	0.88	933.7
1182.000	9.426	9.40	1451.5	9.826	10.49	1649.5	3.026	2.93	139.4	3.070	2.40	936.1
1183.000	9.455	9.44	1461.0	8.511	9.17	1658.7	2.814	2.92	142.3	4.384	3.73	939.8
1184.000	9.483	9.47	1470.4	6.514	7.51	1666.2	2.502	2.66	145.0	6.380	5.38	945.2
1185.000	9.486	9.48	1479.9	4.187	5.35	1671.5	2.443	2.47	147.5	8.706	7.54	952.7
1186.000	9.490	9.49	1489.4	2.077	3.13	1674.7	2.382	2.41	149.9	10.816	9.76	962.5
1187.000	8.907	9.20	1498.6	0.219	1.15	1675.8	2.335	2.36	152.2	12.672	11.74	974.2
1188.000	0.000	4.45	1503.1	0.000	0.11	1675.9	2.288	2.31	154.5	13.507	13.09	987.3
1189.000	0.000	0.00	1503.1	0.000	0.00	1675.9	3.352	2.82	157.4	13.519	13.51	1000.8
1190.000	0.000	0.00	1503.1	0.000	0.00	1675.9	4.495	3.92	161.3	13.519	13.52	1014.3
1191.000	0.000	0.00	1503.1	0.000	0.00	1675.9	5.793	5.14	166.4	13.520	13.52	1027.9

1192.000	0.000	0.00	1503.1	0.000	0.00	1675.9	7.601	6.70	173.1	13.520	13.52	1041.4
1193.000	0.000	0.00	1503.1	0.000	0.00	1675.9	7.218	7.41	180.5	13.521	13.52	1054.9
1194.000	0.000	0.00	1503.1	0.000	0.00	1675.9	6.769	6.99	187.5	13.522	13.52	1068.4
1195.000	0.000	0.00	1503.1	0.000	0.00	1675.9	6.673	6.72	194.2	13.522	13.52	1081.9
1196.000	0.000	0.00	1503.1	0.000	0.00	1675.9	6.569	6.62	200.9	13.523	13.52	1095.5
1197.000	0.000	0.00	1503.1	0.000	0.00	1675.9	6.061	6.31	207.2	13.523	13.52	1109.0

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1198.000	0.000	0.00	1503.1	0.000	0.00	1675.9	5.692	5.88	213.1	13.523	13.52	1122.5
1199.000	0.000	0.00	1503.1	0.000	0.00	1675.9	4.569	5.13	218.2	13.524	13.52	1136.0
1200.000	7.057	3.53	1506.6	1.702	0.85	1676.8	4.039	4.30	222.5	13.873	13.70	1149.7
1201.000	6.963	7.01	1513.6	2.880	2.29	1679.1	3.946	3.99	226.5	12.697	13.29	1163.0
1202.000	6.869	6.92	1520.5	4.008	3.44	1682.5	3.854	3.90	230.4	11.571	12.13	1175.2
1203.000	6.768	6.82	1527.3	5.444	4.73	1687.2	3.762	3.81	234.2	10.137	10.85	1186.0
1204.000	6.666	6.72	1534.0	6.816	6.13	1693.4	3.670	3.72	237.9	8.766	9.45	1195.5
1205.000	6.589	6.63	1540.7	8.533	7.67	1701.0	3.580	3.63	241.5	7.051	7.91	1203.4
1206.000	6.512	6.55	1547.2	10.200	9.37	1710.4	3.489	3.53	245.1	5.386	6.22	1209.6
1207.000	6.377	6.44	1553.7	11.773	10.99	1721.4	3.609	3.55	248.6	3.814	4.60	1214.2
1208.000	6.244	6.31	1560.0	13.253	12.51	1733.9	3.920	3.76	252.4	2.336	3.07	1217.3
1209.000	6.192	6.22	1566.2	14.617	13.94	1747.8	2.650	3.29	255.7	0.973	1.65	1218.9
1210.000	7.109	6.65	1572.8	14.933	14.78	1762.6	0.000	1.32	257.0	0.000	0.49	1219.4
1211.000	7.864	7.49	1580.3	14.934	14.93	1777.5	0.000	0.00	257.0	0.000	0.00	1219.4
1212.000	8.588	8.23	1588.6	14.934	14.93	1792.5	0.000	0.00	257.0	0.000	0.00	1219.4
1213.000	9.176	8.88	1597.4	14.935	14.93	1807.4	0.000	0.00	257.0	0.000	0.00	1219.4
1213.365	9.382	3.39	1600.8	14.935	5.45	1812.9	0.000	0.00	257.0	0.000	0.00	1219.4
1214.000	9.727	6.07	1606.9	15.045	9.52	1822.4	0.000	0.00	257.0	0.000	0.00	1219.4
1215.000	9.945	9.84	1616.7	15.218	15.13	1837.5	0.000	0.00	257.0	0.000	0.00	1219.4
1215.279	10.033	2.79	1619.5	15.265	4.25	1841.8	0.000	0.00	257.0	0.000	0.00	1219.4
1216.000	10.340	7.34	1626.9	15.424	11.06	1852.8	0.000	0.00	257.0	0.000	0.00	1219.4
1217.000	9.835	10.09	1636.9	15.643	15.53	1868.4	0.000	0.00	257.0	0.000	0.00	1219.4
1217.158	9.749	1.55	1638.5	15.679	2.47	1870.8	0.000	0.00	257.0	0.000	0.00	1219.4
1218.000	9.259	8.00	1646.5	15.943	13.31	1884.1	0.000	0.00	257.0	0.000	0.00	1219.4
1218.986	8.855	8.93	1655.4	16.257	15.88	1900.0	0.000	0.00	257.0	0.000	0.00	1219.4
1219.000	8.849	0.12	1655.6	16.263	0.23	1900.2	0.000	0.00	257.0	0.000	0.00	1219.4
1220.000	8.382	8.62	1664.2	16.680	16.47	1916.7	0.000	0.00	257.0	0.000	0.00	1219.4
1220.748	7.686	6.01	1670.2	16.984	12.59	1929.3	0.000	0.00	257.0	0.000	0.00	1219.4
1221.000	7.446	1.91	1672.1	17.115	4.30	1933.6	0.000	0.00	257.0	0.000	0.00	1219.4
1222.000	6.477	6.96	1679.0	17.635	17.37	1951.0	0.000	0.00	257.0	0.000	0.00	1219.4
1222.433	6.023	2.71	1681.8	17.862	7.69	1958.7	0.000	0.00	257.0	0.000	0.00	1219.4

1223.000	5.415	3.24	1685.0	18.117	10.20	1968.9	0.000	0.00	257.0	0.106	0.03	1219.4
1224.000	1.435	3.42	1688.4	17.549	17.83	1986.7	1.122	0.56	257.6	2.004	1.05	1220.5
1224.030	1.302	0.04	1688.5	17.530	0.53	1987.2	1.138	0.03	257.6	2.042	0.06	1220.5
1225.000	0.000	0.63	1689.1	15.958	16.24	2003.5	1.385	1.22	258.8	3.231	2.56	1223.1
1225.535	0.000	0.00	1689.1	13.913	7.99	2011.5	1.436	0.75	259.6	3.863	1.90	1225.0
1226.000	0.000	0.00	1689.1	12.172	6.06	2017.5	1.465	0.67	260.2	4.437	1.93	1226.9
1226.149	0.000	0.00	1689.1	11.618	1.77	2019.3	1.447	0.22	260.5	4.628	0.68	1227.6
1227.000	0.000	0.00	1689.1	9.386	8.94	2028.2	1.339	1.19	261.6	5.747	4.41	1232.0
1227.185	0.000	0.00	1689.1	8.906	1.69	2029.9	1.316	0.25	261.9	5.992	1.09	1233.1
1228.000	0.000	0.00	1689.1	6.823	6.41	2036.3	1.213	1.03	262.9	7.079	5.33	1238.4
1228.625	0.000	0.00	1689.1	5.139	3.74	2040.1	1.114	0.73	263.6	8.033	4.72	1243.2
1229.000	0.000	0.00	1689.1	4.135	1.74	2041.8	1.054	0.41	264.1	8.614	3.12	1246.3
1229.692	0.000	0.00	1689.1	2.293	2.22	2044.0	0.945	0.69	264.7	9.700	6.34	1252.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLEN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1230.000	0.000	0.00	1689.1	1.477	0.58	2044.6	0.896	0.28	265.0	10.190	3.06	1255.7
1230.818	4.490	1.84	1690.9	4.063	2.27	2046.9	0.719	0.66	265.7	11.894	9.03	1264.7
1231.000	0.000	0.41	1691.3	0.000	0.37	2047.3	0.680	0.13	265.8	10.936	2.08	1266.8
1232.000	0.000	0.00	1691.3	0.000	0.00	2047.3	0.467	0.57	266.4	11.522	11.23	1278.0
1233.000	0.000	0.00	1691.3	0.000	0.00	2047.3	0.148	0.31	266.7	12.146	11.83	1289.9
1234.000	0.000	0.00	1691.3	0.000	0.00	2047.3	0.000	0.07	266.8	12.661	12.40	1302.3
1235.000	0.000	0.00	1691.3	0.000	0.00	2047.3	0.000	0.00	266.8	12.971	12.82	1315.1
1236.000	5.367	2.68	1694.0	0.243	0.12	2047.4	0.862	0.43	267.2	12.601	12.79	1327.9
1237.000	10.958	8.16	1702.2	3.025	1.63	2049.0	0.337	0.60	267.8	9.819	11.21	1339.1
1238.000	13.235	12.10	1714.3	7.768	5.40	2054.4	0.000	0.17	268.0	6.376	8.10	1347.2
1239.000	14.118	13.68	1728.0	14.947	11.36	2065.8	0.000	0.00	268.0	0.000	3.19	1350.4
1240.000	15.627	14.87	1742.8	15.478	15.21	2081.0	0.000	0.00	268.0	0.000	0.00	1350.4
1241.000	15.477	15.55	1758.4	14.948	15.21	2096.2	0.000	0.00	268.0	0.000	0.00	1350.4
1242.000	16.025	15.75	1774.1	14.948	14.95	2111.1	0.000	0.00	268.0	0.000	0.00	1350.4
1243.000	16.657	16.34	1790.5	14.831	14.89	2126.0	0.000	0.00	268.0	0.000	0.00	1350.4
1244.000	17.269	16.96	1807.4	14.115	14.47	2140.5	0.000	0.00	268.0	0.000	0.00	1350.4
1245.000	17.856	17.56	1825.0	13.416	13.77	2154.3	0.000	0.00	268.0	0.000	0.00	1350.4
1246.000	18.420	18.14	1843.1	12.726	13.07	2167.3	0.000	0.00	268.0	0.000	0.00	1350.4
1247.000	18.955	18.69	1861.8	12.082	12.40	2179.7	0.000	0.00	268.0	0.000	0.00	1350.4
1247.076	18.995	1.44	1863.3	12.037	0.92	2180.7	0.000	0.00	268.0	0.000	0.00	1350.4
1248.000	19.479	17.78	1881.0	11.505	10.88	2191.5	0.000	0.00	268.0	0.000	0.00	1350.4
1249.000	19.996	19.74	1900.8	10.900	11.20	2202.7	0.000	0.00	268.0	0.000	0.00	1350.4
1249.991	20.494	20.06	1920.8	10.156	10.43	2213.2	0.000	0.00	268.0	0.000	0.00	1350.4
1250.000	20.498	0.18	1921.0	10.149	0.09	2213.3	0.000	0.00	268.0	0.000	0.00	1350.4

1250.997	21.015	20.69	1941.7	11.048	10.57	2223.8	0.000	0.00	268.0	0.000	0.00	1350.4
1252.000	21.513	21.33	1963.0	12.010	11.56	2235.4	0.000	0.00	268.0	0.000	0.00	1350.4
1252.278	21.654	6.00	1969.0	12.287	3.38	2238.8	0.000	0.00	268.0	0.000	0.00	1350.4
1253.000	22.015	15.76	1984.8	13.030	9.14	2247.9	0.000	0.00	268.0	0.000	0.00	1350.4
1253.378	22.201	8.36	1993.2	13.433	5.00	2252.9	0.000	0.00	268.0	0.000	0.00	1350.4
1254.000	22.499	13.90	2007.1	14.116	8.57	2261.5	0.000	0.00	268.0	0.000	0.00	1350.4
1254.615	22.784	13.92	2021.0	14.820	8.90	2270.4	0.000	0.00	268.0	0.000	0.00	1350.4
1255.000	22.959	8.81	2029.8	15.627	5.86	2276.2	0.000	0.00	268.0	0.000	0.00	1350.4
1255.759	23.296	17.55	2047.4	17.301	12.50	2288.7	0.000	0.00	268.0	0.000	0.00	1350.4
1256.000	23.401	5.63	2053.0	17.857	4.24	2293.0	0.000	0.00	268.0	0.000	0.00	1350.4
1256.487	23.605	11.45	2064.4	18.353	8.82	2301.8	0.000	0.00	268.0	0.000	0.00	1350.4
1257.000	24.998	12.47	2076.9	18.014	9.33	2311.1	0.000	0.00	268.0	0.000	0.00	1350.4
1257.854	25.431	21.53	2098.4	17.466	15.15	2326.3	0.000	0.00	268.0	0.000	0.00	1350.4
1258.000	25.482	3.72	2102.1	17.389	2.54	2328.8	0.000	0.00	268.0	0.000	0.00	1350.4
1259.000	25.893	25.69	2127.8	16.862	17.13	2345.9	0.000	0.00	268.0	0.000	0.00	1350.4
1259.294	26.012	7.63	2135.5	16.708	4.93	2350.9	0.000	0.00	268.0	0.000	0.00	1350.4
1260.000	26.303	18.47	2153.9	16.419	11.69	2362.6	0.000	0.00	268.0	0.000	0.00	1350.4
1260.797	26.569	21.07	2175.0	16.084	12.95	2375.5	0.000	0.00	268.0	0.000	0.00	1350.4
1261.000	26.637	5.40	2180.4	16.015	3.26	2378.8	0.000	0.00	268.0	0.000	0.00	1350.4
1262.000	26.967	26.80	2207.2	15.697	15.86	2394.6	0.000	0.00	268.0	0.000	0.00	1350.4

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
1262.354	27.099	9.57	2216.8	15.585	5.54	2400.2	0.000	0.00	268.0	0.000	0.00	1350.4
1263.000	27.337	17.58	2234.4	15.440	10.02	2410.2	0.000	0.00	268.0	0.000	0.00	1350.4
1263.952	27.676	26.19	2260.5	15.229	14.60	2424.8	0.000	0.00	268.0	0.000	0.00	1350.4
1264.000	27.693	1.33	2261.9	15.223	0.73	2425.5	0.000	0.00	268.0	0.000	0.00	1350.4
1265.000	28.050	27.87	2289.7	15.095	15.16	2440.7	0.000	0.00	268.0	0.000	0.00	1350.4
1265.580	28.250	16.33	2306.1	15.015	8.73	2449.4	0.000	0.00	268.0	0.000	0.00	1350.4
1266.000	28.394	11.90	2318.0	14.996	6.30	2455.7	0.000	0.00	268.0	0.000	0.00	1350.4
1267.000	28.725	28.56	2346.5	14.953	14.97	2470.7	0.000	0.00	268.0	0.000	0.00	1350.4
1267.221	28.798	6.36	2352.9	14.943	3.30	2474.0	0.000	0.00	268.0	0.000	0.00	1350.4
1268.000	29.056	22.53	2375.4	14.943	11.64	2485.6	0.000	0.00	268.0	0.000	0.00	1350.4
1269.000	29.115	29.09	2404.5	14.943	14.94	2500.6	0.000	0.00	268.0	0.000	0.00	1350.4
1270.000	29.175	29.15	2433.6	14.942	14.94	2515.5	0.000	0.00	268.0	0.000	0.00	1350.4
1271.000	29.355	29.26	2462.9	14.942	14.94	2530.5	0.000	0.00	268.0	0.000	0.00	1350.4
1272.000	16.239	22.80	2485.7	15.488	15.22	2545.7	0.000	0.00	268.0	0.000	0.00	1350.4
1273.000	16.259	16.25	2502.0	14.941	15.21	2560.9	0.000	0.00	268.0	0.000	0.00	1350.4
1274.000	16.208	16.23	2518.2	14.941	14.94	2575.8	0.000	0.00	268.0	0.000	0.00	1350.4
1275.000	16.472	16.34	2534.5	14.940	14.94	2590.8	0.000	0.00	268.0	0.000	0.00	1350.4

1276.000	16.728	16.60	2551.1	15.492	15.22	2606.0	0.000	0.00	268.0	0.000	0.00	1350.4
1277.000	17.280	17.00	2568.1	14.939	15.22	2621.2	0.000	0.00	268.0	0.000	0.00	1350.4
1278.000	17.795	17.54	2585.7	14.938	14.94	2636.1	0.000	0.00	268.0	0.000	0.00	1350.4
1279.000	17.718	17.76	2603.4	14.938	14.94	2651.1	0.000	0.00	268.0	0.000	0.00	1350.4
1280.000	17.637	17.68	2621.1	14.937	14.94	2666.0	0.000	0.00	268.0	0.000	0.00	1350.4
1281.000	17.566	17.60	2638.7	14.937	14.94	2680.9	0.000	0.00	268.0	0.000	0.00	1350.4
1282.000	3.881	10.72	2649.4	14.936	14.94	2695.9	0.000	0.00	268.0	0.000	0.00	1350.4
1283.000	17.382	10.63	2660.1	14.936	14.94	2710.8	0.000	0.00	268.0	0.000	0.00	1350.4
1284.000	3.919	10.65	2670.7	14.936	14.94	2725.8	0.000	0.00	268.0	0.000	0.00	1350.4
1285.000	3.821	3.87	2674.6	15.496	15.22	2741.0	0.000	0.00	268.0	0.000	0.00	1350.4
1286.000	3.919	3.87	2678.4	14.935	15.22	2756.2	0.000	0.00	268.0	0.000	0.00	1350.4
1287.000	3.593	3.76	2682.2	14.935	14.94	2771.1	0.000	0.00	268.0	0.000	0.00	1350.4
1288.000	3.233	3.41	2685.6	14.934	14.93	2786.1	0.000	0.00	268.0	0.000	0.00	1350.4
1289.000	2.897	3.07	2688.7	14.934	14.93	2801.0	0.000	0.00	268.0	0.000	0.00	1350.4
1290.000	2.554	2.73	2691.4	14.934	14.93	2815.9	0.000	0.00	268.0	0.000	0.00	1350.4
1291.000	2.273	2.41	2693.8	14.933	14.93	2830.9	0.000	0.00	268.0	0.000	0.00	1350.4
1292.000	2.099	2.19	2696.0	14.110	14.52	2845.4	0.000	0.00	268.0	0.823	0.41	1350.8
1293.000	2.283	2.19	2698.2	13.137	13.62	2859.0	0.000	0.00	268.0	2.194	1.51	1352.3
1294.000	2.414	2.35	2700.5	12.110	12.62	2871.6	0.000	0.00	268.0	2.925	2.56	1354.8
1295.000	2.258	2.34	2702.9	11.106	11.61	2883.2	0.000	0.00	268.0	3.663	3.29	1358.1
1295.310	2.207	0.69	2703.6	10.739	3.39	2886.6	0.000	0.00	268.0	3.946	1.18	1359.3

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P4 : Enlace de A Casilla. Eje-4 (OC7-14.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
4093.038	8.053	0.00	0.0	11.957	0.00	0.0	0.000	0.00	0.0	12.632	0.00	0.0
4093.059	8.057	0.17	0.2	11.955	0.25	0.3	0.000	0.00	0.0	12.634	0.27	0.3
4095.000	8.349	15.92	16.1	11.897	23.15	23.4	0.000	0.00	0.0	12.692	24.58	24.8
4100.000	8.872	43.05	59.1	11.591	58.72	82.1	0.000	0.00	0.0	12.998	64.22	89.1
4105.000	8.145	42.54	101.7	11.074	56.66	138.8	0.000	0.00	0.0	13.515	66.28	155.4
4110.000	7.313	38.65	140.3	10.752	54.56	193.3	0.000	0.00	0.0	13.837	68.38	223.7
4115.000	6.297	34.03	174.4	10.306	52.64	246.0	0.000	0.00	0.0	14.283	70.30	294.0
4120.000	5.414	29.28	203.6	10.108	51.03	297.0	0.000	0.00	0.0	14.481	71.91	365.9
4125.000	4.422	24.59	228.2	10.233	50.85	347.9	0.000	0.00	0.0	14.502	72.46	438.4
4130.000	3.484	19.76	248.0	10.994	53.07	400.9	0.000	0.00	0.0	13.887	70.97	509.4
4135.000	2.593	15.19	263.2	11.820	57.03	458.0	0.000	0.00	0.0	13.208	67.74	577.1
4140.000	1.746	10.85	274.0	11.728	58.87	516.8	0.000	0.00	0.0	13.445	66.63	643.7
4145.000	2.381	10.32	284.3	12.520	60.62	577.5	0.000	0.00	0.0	13.404	67.12	710.9
4150.000	3.010	13.48	297.8	11.508	60.07	637.5	0.000	0.00	0.0	13.957	68.40	779.3
4155.000	3.633	16.61	314.4	10.916	56.06	693.6	0.000	0.00	0.0	14.696	71.63	850.9
4160.000	0.647	10.70	325.1	9.805	51.80	745.4	0.262	0.65	0.7	14.104	72.00	922.9
4165.000	0.377	2.56	327.7	9.319	47.81	793.2	0.252	1.28	1.9	14.736	72.10	995.0
4170.000	0.122	1.25	328.9	8.512	44.58	837.8	0.238	1.22	3.2	15.690	76.07	1071.1
4175.000	0.000	0.31	329.2	7.026	38.84	876.6	0.217	1.14	4.3	17.321	82.53	1153.6
4180.000	0.000	0.00	329.2	3.938	27.41	904.0	0.181	1.00	5.3	20.555	94.69	1248.3
4185.000	0.000	0.00	329.2	0.000	9.85	913.9	0.156	0.84	6.1	25.094	114.12	1362.4
4190.000	0.000	0.00	329.2	0.000	0.00	913.9	0.123	0.70	6.8	24.865	124.90	1487.3
4195.000	0.000	0.00	329.2	0.000	0.00	913.9	0.080	0.51	7.3	24.491	123.39	1610.7
4200.000	0.000	0.00	329.2	0.000	0.00	913.9	0.018	0.25	7.6	24.147	121.59	1732.3
4205.000	0.000	0.00	329.2	0.000	0.00	913.9	0.000	0.05	7.6	22.542	116.72	1849.0
4210.000	0.000	0.00	329.2	0.000	0.00	913.9	0.000	0.00	7.6	22.514	112.64	1961.7
4215.000	0.000	0.00	329.2	0.000	0.00	913.9	0.000	0.00	7.6	22.540	112.64	2074.3
4220.000	0.000	0.00	329.2	0.000	0.00	913.9	0.364	0.91	8.5	23.260	114.50	2188.8
4225.000	0.000	0.00	329.2	0.000	0.00	913.9	0.389	1.88	10.4	23.150	116.02	2304.8
4230.000	0.000	0.00	329.2	0.000	0.00	913.9	0.410	2.00	12.4	24.428	118.94	2423.8
4235.000	0.000	0.00	329.2	0.000	0.00	913.9	0.427	2.09	14.5	24.790	123.05	2546.8
4240.000	0.000	0.00	329.2	0.000	0.00	913.9	0.441	2.17	16.7	25.178	124.92	2671.7

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P5 : Enlace de A Casilla. Eje-5 (OC7-15.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
5101.075	0.000	0.00	0.0	0.000	0.00	0.0	5.164	0.00	0.0	16.747	0.00	0.0
5105.000	0.000	0.00	0.0	0.000	0.00	0.0	4.642	19.24	19.2	16.734	65.71	65.7
5110.000	0.000	0.00	0.0	0.000	0.00	0.0	4.209	22.13	41.4	16.719	83.63	149.3
5110.332	0.000	0.00	0.0	0.000	0.00	0.0	4.181	1.39	42.8	16.718	5.55	154.9
5115.000	0.000	0.00	0.0	0.000	0.00	0.0	3.923	18.92	61.7	16.718	78.04	232.9
5120.000	0.000	0.00	0.0	0.000	0.00	0.0	3.647	18.92	80.6	16.718	83.59	316.5
5125.000	0.000	0.00	0.0	0.000	0.00	0.0	3.354	17.50	98.1	16.718	83.59	400.1
5130.000	0.000	0.00	0.0	0.000	0.00	0.0	3.062	16.04	114.1	16.718	83.59	483.7
5135.000	0.000	0.00	0.0	0.000	0.00	0.0	2.773	14.59	128.7	16.718	83.59	567.3
5140.000	0.000	0.00	0.0	0.000	0.00	0.0	2.505	13.20	141.9	16.718	83.59	650.9
5145.000	0.000	0.00	0.0	0.000	0.00	0.0	2.244	11.87	153.8	16.718	83.59	734.5
5150.000	0.000	0.00	0.0	0.000	0.00	0.0	2.016	10.65	164.5	16.718	83.59	818.1
5155.000	0.000	0.00	0.0	0.000	0.00	0.0	1.817	9.58	174.0	16.718	83.59	901.6
5160.000	0.000	0.00	0.0	0.000	0.00	0.0	1.647	8.66	182.7	16.718	83.59	985.2
5165.000	0.000	0.00	0.0	0.000	0.00	0.0	1.421	7.67	190.4	16.663	83.45	1068.7
5170.000	0.000	0.00	0.0	0.000	0.00	0.0	1.256	6.69	197.1	16.587	83.13	1151.8
5175.000	0.000	0.00	0.0	0.000	0.00	0.0	1.134	5.98	203.0	16.523	82.77	1234.6
5180.000	0.000	0.00	0.0	0.000	0.00	0.0	0.894	5.07	208.1	16.470	82.48	1317.1
5185.000	0.000	0.00	0.0	0.000	0.00	0.0	1.340	5.58	213.7	16.433	82.26	1399.3
5190.000	0.000	0.00	0.0	0.000	0.00	0.0	1.620	7.40	221.1	16.409	82.10	1481.4
5195.000	0.000	0.00	0.0	0.000	0.00	0.0	1.834	8.63	229.7	16.399	82.02	1563.4
5200.000	0.000	0.00	0.0	0.000	0.00	0.0	2.000	9.59	239.3	16.403	82.00	1645.4

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P6 : Enlace de A Casilla. Eje-6 (OC7-16.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
6064.616	6.495	0.00	0.0	3.254	0.00	0.0	0.000	0.00	0.0	15.138	0.00	0.0
6065.000	6.496	2.49	2.5	3.192	1.24	1.2	0.000	0.00	0.0	15.161	5.82	5.8
6070.000	6.494	32.48	35.0	2.180	13.43	14.7	0.000	0.00	0.0	15.559	76.80	82.6
6075.000	6.333	32.07	67.0	0.350	6.32	21.0	0.000	0.00	0.0	17.080	81.60	164.2
6080.000	6.133	31.16	98.2	0.372	1.80	22.8	0.000	0.00	0.0	16.643	84.31	248.5
6085.000	3.787	24.80	123.0	0.471	2.11	24.9	0.000	0.00	0.0	16.590	83.08	331.6
6090.000	0.677	11.16	134.2	1.835	5.77	30.7	0.000	0.00	0.0	15.264	79.64	411.2
6095.000	3.524	10.50	144.7	0.365	5.50	36.2	0.000	0.00	0.0	17.604	82.17	493.4
6100.000	6.612	25.34	170.0	0.746	2.78	38.9	0.000	0.00	0.0	17.198	87.01	580.4
6105.000	7.094	34.27	204.3	1.065	4.53	43.5	0.000	0.00	0.0	16.855	85.13	665.5
6105.345	7.126	2.45	206.7	1.076	0.37	43.8	0.000	0.00	0.0	16.842	5.81	671.4
6110.000	7.494	34.03	240.7	1.781	6.65	50.5	0.000	0.00	0.0	16.113	76.70	748.1
6115.000	7.365	37.15	277.9	2.626	11.02	61.5	0.000	0.00	0.0	15.241	78.39	826.5
6120.000	7.184	36.37	314.3	2.856	13.70	75.2	0.000	0.00	0.0	14.977	75.54	902.0
6125.000	6.543	34.32	348.6	2.438	13.24	88.4	0.000	0.00	0.0	15.361	75.84	977.8
6130.000	5.928	31.18	379.8	2.015	11.13	99.6	0.000	0.00	0.0	15.750	77.78	1055.6
6135.000	5.189	27.79	407.5	1.327	8.36	107.9	0.000	0.00	0.0	13.930	74.20	1129.8
6140.000	5.061	25.62	433.2	1.250	6.44	114.4	0.000	0.00	0.0	14.080	70.03	1199.8
6145.000	4.603	24.16	457.3	1.163	6.03	120.4	0.000	0.00	0.0	13.981	70.15	1270.0
6145.283	4.578	1.30	458.6	1.157	0.33	120.7	0.000	0.00	0.0	13.977	3.96	1273.9

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P7 : Enlace de A Casilla. Eje-7 (OC7-17.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
7021.376	0.000	0.00	0.0	10.505	0.00	0.0	0.000	0.00	0.0	0.000	0.00	0.0
7025.000	0.000	0.00	0.0	11.011	38.99	39.0	0.000	0.00	0.0	0.000	0.00	0.0
7025.229	0.000	0.00	0.0	11.068	2.53	41.5	0.000	0.00	0.0	0.000	0.00	0.0
7030.000	0.000	0.00	0.0	12.538	56.31	97.8	0.000	0.00	0.0	0.000	0.00	0.0
7030.874	0.000	0.00	0.0	12.319	10.86	108.7	0.000	0.00	0.0	0.000	0.00	0.0
7035.000	0.000	0.00	0.0	11.369	48.87	157.6	0.000	0.00	0.0	0.000	0.00	0.0
7035.273	0.000	0.00	0.0	11.221	3.08	160.6	0.000	0.00	0.0	0.000	0.00	0.0
7040.000	0.000	0.00	0.0	9.127	48.09	208.7	0.000	0.00	0.0	0.000	0.00	0.0
7040.649	0.000	0.00	0.0	8.877	5.84	214.6	0.000	0.00	0.0	0.000	0.00	0.0
7043.164	0.000	0.00	0.0	8.040	21.27	235.9	0.000	0.00	0.0	0.000	0.00	0.0
7045.000	0.000	0.00	0.0	7.485	14.25	250.1	0.000	0.00	0.0	0.000	0.00	0.0
7045.914	0.000	0.00	0.0	7.234	6.73	256.8	0.000	0.00	0.0	0.000	0.00	0.0
7050.000	0.000	0.00	0.0	6.231	27.51	284.3	0.000	0.00	0.0	0.000	0.00	0.0
7050.064	0.000	0.00	0.0	6.216	0.40	284.7	0.000	0.00	0.0	0.000	0.00	0.0
7055.000	0.000	0.00	0.0	5.317	28.47	313.2	0.000	0.00	0.0	0.000	0.00	0.0
7055.189	0.000	0.00	0.0	5.289	1.00	314.2	0.000	0.00	0.0	0.000	0.00	0.0
7059.618	0.000	0.00	0.0	4.716	22.15	336.4	0.000	0.00	0.0	0.000	0.00	0.0
7059.628	6.290	0.03	0.0	13.490	0.09	336.5	0.000	0.00	0.0	0.000	0.00	0.0
7060.000	6.260	2.33	2.4	13.455	5.01	341.5	0.000	0.00	0.0	0.000	0.00	0.0
7065.000	5.867	30.32	32.7	13.002	66.14	407.6	0.000	0.00	0.0	0.000	0.00	0.0
7065.292	5.845	1.71	34.4	12.977	3.79	411.4	0.000	0.00	0.0	0.000	0.00	0.0
7070.000	5.504	26.71	61.1	12.705	60.46	471.9	0.000	0.00	0.0	0.000	0.00	0.0
7070.306	5.482	1.68	62.8	12.689	3.89	475.7	0.000	0.00	0.0	0.000	0.00	0.0
7075.000	5.160	24.98	87.8	12.505	59.13	534.9	0.000	0.00	0.0	0.000	0.00	0.0
7075.322	5.138	1.66	89.4	12.494	4.02	538.9	0.000	0.00	0.0	0.000	0.00	0.0
7080.000	4.828	23.31	112.7	12.398	58.22	597.1	0.000	0.00	0.0	0.000	0.00	0.0
7080.338	4.806	1.63	114.4	12.393	4.19	601.3	0.000	0.00	0.0	0.000	0.00	0.0
7085.000	4.507	21.71	136.1	12.351	57.68	659.0	0.000	0.00	0.0	0.000	0.00	0.0
7090.000	4.189	21.74	157.8	12.314	61.66	720.7	0.000	0.00	0.0	0.000	0.00	0.0
7095.000	3.875	20.16	178.0	12.293	61.52	782.2	0.000	0.00	0.0	0.000	0.00	0.0
7100.000	3.565	18.60	196.6	12.019	60.78	842.9	0.000	0.00	0.0	0.267	0.67	0.7
7105.000	3.296	17.15	213.7	11.398	58.54	901.5	0.000	0.00	0.0	0.882	2.87	3.5
7110.000	3.029	15.81	229.5	10.884	55.71	957.2	0.000	0.00	0.0	1.395	5.69	9.2
7113.816	2.828	11.17	240.7	10.047	39.94	997.1	0.000	0.00	0.0	2.236	6.93	16.2

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P8 : Enlace de A Casilla. Eje-8 (OC7-18.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
8000.000	5.226	0.00	0.0	1.915	0.00	0.0	0.000	0.00	0.0	10.390	0.00	0.0
8005.000	3.886	22.78	22.8	1.741	9.14	9.1	0.000	0.00	0.0	10.564	52.39	52.4
8010.000	2.599	16.21	39.0	1.671	8.53	17.7	0.000	0.00	0.0	10.636	53.00	105.4
8010.000	1.004	0.00	39.0	1.671	0.00	17.7	0.000	0.00	0.0	10.636	0.00	105.4
8015.000	1.113	5.29	44.3	1.583	8.14	25.8	0.000	0.00	0.0	10.737	53.43	158.8
8020.000	1.223	5.84	50.1	2.551	10.34	36.1	0.000	0.00	0.0	9.784	51.30	210.1
8025.000	1.126	5.87	56.0	5.010	18.90	55.0	0.000	0.00	0.0	7.351	42.84	253.0
8030.000	1.030	5.39	61.4	11.175	40.46	95.5	0.000	0.00	0.0	1.233	21.46	274.4
8035.000	0.934	4.91	66.3	12.480	59.14	154.6	0.000	0.00	0.0	0.000	3.08	277.5
8040.000	0.837	4.43	70.7	12.566	62.61	217.3	0.000	0.00	0.0	0.000	0.00	277.5
8040.000	2.206	0.00	70.7	12.566	0.00	217.3	0.000	0.00	0.0	0.000	0.00	277.5
8045.000	1.811	10.04	80.8	12.676	63.10	280.4	0.000	0.00	0.0	0.000	0.00	277.5
8047.280	1.604	3.89	84.7	12.742	28.98	309.3	0.000	0.00	0.0	0.000	0.00	277.5
8050.000	1.404	4.09	88.7	12.834	34.78	344.1	0.000	0.00	0.0	0.000	0.00	277.5
8050.217	1.432	0.31	89.1	12.841	2.79	346.9	0.000	0.00	0.0	0.000	0.00	277.5
8055.000	1.875	7.91	97.0	13.081	61.99	408.9	0.000	0.00	0.0	0.000	0.00	277.5
8055.181	1.974	0.35	97.3	13.092	2.37	411.3	0.000	0.00	0.0	0.000	0.00	277.5
8058.814	4.131	11.09	108.4	13.412	48.15	459.4	0.000	0.00	0.0	0.000	0.00	277.5
8060.000	4.327	5.02	113.4	13.535	15.98	475.4	0.000	0.00	0.0	0.000	0.00	277.5
8060.237	4.339	1.03	114.4	13.558	3.21	478.6	0.000	0.00	0.0	0.000	0.00	277.5
8065.000	4.594	21.27	135.7	14.130	65.94	544.5	0.000	0.00	0.0	0.000	0.00	277.5
8065.392	4.588	1.80	137.5	14.185	5.55	550.1	0.000	0.00	0.0	0.000	0.00	277.5
8070.000	4.585	21.14	158.7	15.063	67.39	617.5	0.000	0.00	0.0	0.000	0.00	277.5
8070.818	4.221	3.60	162.3	15.252	12.40	629.9	0.000	0.00	0.0	0.000	0.00	277.5
8075.000	1.207	11.35	173.6	16.456	66.30	696.2	0.000	0.00	0.0	0.000	0.00	277.5
8080.000	4.167	13.43	187.0	17.852	85.77	781.9	0.000	0.00	0.0	0.000	0.00	277.5
8080.219	4.152	0.91	188.0	17.866	3.91	785.9	0.000	0.00	0.0	0.000	0.00	277.5
8085.000	3.818	19.05	207.0	17.559	84.68	870.5	0.000	0.00	0.0	0.000	0.00	277.5
8085.141	3.800	0.54	207.5	17.469	2.47	873.0	0.000	0.00	0.0	0.000	0.00	277.5
8090.000	3.131	16.84	224.4	14.866	78.56	951.6	0.000	0.00	0.0	0.000	0.00	277.5
8090.196	3.030	0.60	225.0	14.779	2.91	954.5	0.000	0.00	0.0	0.000	0.00	277.5
8092.197	6.383	9.42	234.4	17.315	32.11	986.6	0.000	0.00	0.0	1.083	1.08	278.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P10 : Enlace de A Casilla. Eje-10 (OC7_REV2-20.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
10025.392	0.000	0.00	0.0	0.000	0.00	0.0	4.815	0.00	0.0	11.687	0.00	0.0
10030.000	0.000	0.00	0.0	0.000	0.00	0.0	5.080	22.80	22.8	10.844	51.91	51.9
10035.000	0.000	0.00	0.0	0.000	0.00	0.0	7.244	30.81	53.6	11.160	55.01	106.9
10040.000	0.000	0.00	0.0	0.000	0.00	0.0	8.462	39.26	92.9	10.924	55.21	162.1
10045.000	0.000	0.00	0.0	0.000	0.00	0.0	9.224	44.21	137.1	10.712	54.09	216.2
10050.000	0.000	0.00	0.0	0.000	0.00	0.0	6.717	39.85	176.9	10.523	53.09	269.3
10055.000	0.000	0.00	0.0	0.000	0.00	0.0	5.578	30.74	207.7	10.252	51.94	321.2
10060.000	0.000	0.00	0.0	0.000	0.00	0.0	5.439	27.54	235.2	9.416	49.17	370.4
10065.000	0.000	0.00	0.0	0.000	0.00	0.0	5.258	26.74	262.0	8.749	45.41	415.8
10070.000	0.000	0.00	0.0	0.000	0.00	0.0	5.253	26.28	288.2	8.173	42.30	458.1
10075.000	0.000	0.00	0.0	0.000	0.00	0.0	5.140	25.98	314.2	7.739	39.78	497.9
10080.000	0.000	0.00	0.0	0.000	0.00	0.0	5.010	25.37	339.6	7.421	37.90	535.8
10085.000	0.000	0.00	0.0	0.000	0.00	0.0	5.082	25.23	364.8	7.196	36.54	572.3
10090.000	0.000	0.00	0.0	0.000	0.00	0.0	5.156	25.60	390.4	7.025	35.55	607.9
10095.000	0.000	0.00	0.0	0.000	0.00	0.0	5.107	25.66	416.1	6.872	34.74	642.6
10100.000	0.000	0.00	0.0	0.000	0.00	0.0	5.062	25.42	441.5	6.776	34.12	676.8
10105.000	0.000	0.00	0.0	0.000	0.00	0.0	4.431	23.73	465.2	6.697	33.68	710.4
10110.000	0.000	0.00	0.0	0.000	0.00	0.0	4.125	21.39	486.6	6.648	33.36	743.8
10115.000	0.000	0.00	0.0	0.000	0.00	0.0	3.696	19.55	506.2	6.627	33.19	777.0
10120.000	0.000	0.00	0.0	0.000	0.00	0.0	3.279	17.44	523.6	6.614	33.10	810.1
10125.000	0.000	0.00	0.0	0.000	0.00	0.0	2.935	15.54	539.1	6.609	33.06	843.2
10129.277	0.000	0.00	0.0	0.000	0.00	0.0	2.574	11.78	550.9	6.608	28.26	871.4

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PROYECTO : Autovia A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P11 : Enlace de A Casilla. Eje-11 (OC7-21_m.vol)

*** * * SUPERFICIES DE REFINO. AMBOS LADOS * * ***

	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
11000.000	0.000	0.00	0.0	0.000	0.00	0.0	2.734	0.00	0.0	6.639	0.00	0.0
11005.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	6.83	6.8	3.500	25.35	25.3
11010.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.503	17.51	42.9
11015.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.511	17.53	60.4
11020.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.521	17.58	78.0
11025.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.534	17.64	95.6
11030.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.559	17.73	113.3
11035.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.622	17.95	131.3
11040.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.698	18.30	149.6
11045.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	3.853	18.88	168.5
11050.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	4.118	19.93	188.4
11055.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	4.480	21.49	209.9
11056.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	4.558	4.52	214.4
11058.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	4.746	9.30	223.7
11060.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	4.953	9.70	233.4
11062.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	5.232	10.19	243.6
11064.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	5.617	10.85	254.4
11065.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	5.810	5.71	260.2
11066.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	6.026	5.92	266.1
11068.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	6.602	12.63	278.7
11070.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	7.263	13.87	292.6
11072.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	6.8	7.884	15.15	307.7
11074.000	0.000	0.00	0.0	0.000	0.00	0.0	0.374	0.37	7.2	8.197	16.08	323.8
11075.000	0.000	0.00	0.0	0.000	0.00	0.0	0.617	0.50	7.7	8.420	8.31	332.1
11076.000	0.000	0.00	0.0	0.000	0.00	0.0	0.858	0.74	8.4	8.638	8.53	340.6
11078.000	0.000	0.00	0.0	0.000	0.00	0.0	1.402	2.26	10.7	9.026	17.66	358.3
11080.000	0.000	0.00	0.0	0.000	0.00	0.0	2.036	3.44	14.1	9.458	18.48	376.8
11082.000	0.000	0.00	0.0	0.000	0.00	0.0	2.582	4.62	18.8	9.965	19.42	396.2
11084.000	0.000	0.00	0.0	0.000	0.00	0.0	3.640	6.22	25.0	10.390	20.36	416.6
11085.000	0.000	0.00	0.0	0.000	0.00	0.0	3.738	3.69	28.7	10.573	10.48	427.0
11086.000	0.000	0.00	0.0	0.000	0.00	0.0	3.880	3.81	32.5	10.735	10.65	437.7
11088.000	0.000	0.00	0.0	0.000	0.00	0.0	4.221	8.10	40.6	11.241	21.98	459.7
11090.000	0.000	0.00	0.0	0.000	0.00	0.0	4.842	9.06	49.6	11.828	23.07	482.7
11092.000	0.000	0.00	0.0	0.000	0.00	0.0	2.425	7.27	56.9	12.277	24.11	506.9
11094.000	0.000	0.00	0.0	0.000	0.00	0.0	0.938	3.36	60.3	12.457	24.73	531.6
11095.000	0.000	0.00	0.0	0.000	0.00	0.0	0.470	0.70	61.0	12.342	12.40	544.0
11096.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.23	61.2	12.405	12.37	556.4
11098.000	0.000	0.00	0.0	0.000	0.00	0.0	0.000	0.00	61.2	11.833	24.24	580.6
11098.928	0.000	0.00	0.0	0.000	0.00	0.0	5.219	2.42	63.6	13.770	11.88	592.5

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P13 : Enlace de A Casilla. Eje-13 (OC7-23.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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	DESMONTE						TERRAPLÉN					
P.K.	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
13022.184	5.265	0.00	0.0	11.785	0.00	0.0	0.000	0.00	0.0	0.560	0.00	0.0
13025.000	5.151	14.66	14.7	10.879	31.91	31.9	0.000	0.00	0.0	2.373	4.13	4.1
13025.849	5.123	4.36	19.0	10.604	9.12	41.0	0.000	0.00	0.0	2.956	2.26	6.4
13030.000	4.988	20.99	40.0	9.233	41.17	82.2	0.751	1.56	1.6	4.796	16.09	22.5
13030.493	5.021	2.47	42.5	9.083	4.52	86.7	0.680	0.35	1.9	4.919	2.39	24.9
13035.000	5.322	23.31	65.8	8.033	38.57	125.3	0.000	1.53	3.4	7.632	28.28	53.2
13035.102	5.317	0.54	66.3	7.998	0.82	126.1	0.000	0.00	3.4	7.643	0.78	53.9
13039.677	5.075	23.77	90.1	7.560	35.59	161.7	0.000	0.00	3.4	7.226	34.01	88.0
13040.000	5.058	1.64	91.7	7.529	2.44	164.1	0.000	0.00	3.4	7.212	2.33	90.3
13044.217	4.490	20.13	111.9	5.694	27.88	192.0	0.000	0.00	3.4	8.168	32.43	122.7
13045.000	4.384	3.47	115.3	5.596	4.42	196.4	0.000	0.00	3.4	8.137	6.38	129.1
13048.709	4.649	16.75	132.1	3.928	17.66	214.1	0.000	0.00	3.4	8.844	31.49	160.6
13050.000	4.744	6.06	138.2	3.373	4.71	218.8	0.000	0.00	3.4	9.087	11.57	172.2
13050.934	4.726	4.42	142.6	3.047	3.00	221.8	0.000	0.00	3.4	9.204	8.54	180.7
13055.000	4.554	18.87	161.4	1.755	9.76	231.6	0.000	0.00	3.4	9.619	38.27	219.0
13055.348	4.498	1.58	163.0	1.688	0.60	232.2	0.000	0.00	3.4	9.620	3.35	222.3
13059.721	3.969	18.51	181.5	0.895	5.65	237.8	0.000	0.00	3.4	9.531	41.87	264.2
13060.000	3.945	1.10	182.6	0.847	0.24	238.1	0.000	0.00	3.4	9.531	2.66	266.8
13061.895	4.032	7.56	190.2	0.674	1.44	239.5	0.000	0.00	3.4	9.437	17.97	284.8
13065.000	0.000	6.26	196.5	0.000	1.05	240.5	0.555	0.86	4.3	7.613	26.47	311.3
13065.045	0.000	0.00	196.5	0.000	0.00	240.5	0.560	0.03	4.3	7.607	0.34	311.6
13070.000	0.000	0.00	196.5	0.000	0.00	240.5	1.076	4.05	8.4	7.225	36.75	348.4
13070.266	0.000	0.00	196.5	0.000	0.00	240.5	1.093	0.29	8.7	7.210	1.92	350.3
13075.000	0.000	0.00	196.5	0.000	0.00	240.5	1.338	5.75	14.4	7.039	33.73	384.0
13075.457	0.000	0.00	196.5	0.000	0.00	240.5	1.306	0.60	15.0	7.033	3.22	387.2
13080.000	0.000	0.00	196.5	0.000	0.00	240.5	0.343	3.75	18.8	6.974	31.82	419.1
13080.619	0.000	0.00	196.5	0.000	0.00	240.5	0.266	0.19	19.0	6.971	4.32	423.4
13085.000	0.000	0.00	196.5	0.000	0.00	240.5	0.000	0.58	19.5	6.585	29.69	453.1
13085.757	6.453	2.44	198.9	0.107	0.04	240.6	0.000	0.00	19.5	8.977	5.89	459.0
13086.250	7.356	3.40	202.3	2.188	0.57	241.2	0.000	0.00	19.5	11.191	4.97	463.9

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P14 : Enlace de A Casilla. Eje-14 (OC7-24.vol)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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P.K.	DESMONTE						TERRAPLÉN					
	TALUD			PLATAFORMA			TALUD			PLATAFORMA		
	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.	Longitud	Sup.Parcial	Sup.Acumul.
14000.000	0.000	0.00	0.0	3.143	0.00	0.0	0.000	0.00	0.0	6.192	0.00	0.0
14005.013	0.067	0.17	0.2	4.202	18.41	18.4	0.000	0.00	0.0	4.916	27.84	27.8
14010.000	0.065	0.33	0.5	4.801	22.45	40.9	0.000	0.00	0.0	4.364	23.14	51.0
14010.788	0.128	0.08	0.6	4.937	3.84	44.7	0.000	0.00	0.0	4.228	3.39	54.4
14015.618	0.556	1.65	2.2	6.468	27.54	72.2	0.000	0.00	0.0	3.327	18.24	72.6
14020.000	0.807	2.99	5.2	6.998	29.51	101.7	0.000	0.00	0.0	2.442	12.64	85.3
14020.466	0.825	0.38	5.6	7.093	3.28	105.0	0.000	0.00	0.0	2.362	1.12	86.4
14025.330	1.030	4.51	10.1	8.339	37.53	142.6	0.000	0.00	0.0	1.500	9.39	95.8
14030.000	1.290	5.42	15.5	9.826	42.42	185.0	0.000	0.00	0.0	0.290	4.18	99.9
14030.193	1.298	0.25	15.8	9.901	1.90	186.9	0.000	0.00	0.0	0.222	0.05	100.0
14034.000	1.443	5.22	21.0	10.651	39.12	226.0	0.000	0.00	0.0	0.000	0.42	100.4
14035.061	1.486	1.55	22.5	10.801	11.38	237.4	0.000	0.00	0.0	0.000	0.00	100.4
14036.000	1.516	1.41	23.9	10.992	10.23	247.6	0.000	0.00	0.0	0.000	0.00	100.4
14038.000	1.542	3.06	27.0	11.405	22.40	270.0	0.000	0.00	0.0	0.000	0.00	100.4
14040.000	1.556	3.10	30.1	11.830	23.23	293.2	0.000	0.00	0.0	0.000	0.00	100.4
14040.969	1.562	1.51	31.6	12.007	11.55	304.8	0.000	0.00	0.0	0.000	0.00	100.4
14042.000	1.560	1.61	33.2	12.408	12.59	317.4	0.000	0.00	0.0	0.000	0.00	100.4
14044.000	1.546	3.11	36.3	13.209	25.62	343.0	0.000	0.00	0.0	0.000	0.00	100.4
14045.969	1.482	2.98	39.3	14.031	26.82	369.8	0.000	0.00	0.0	0.000	0.00	100.4
14046.000	1.481	0.05	39.4	14.045	0.44	370.2	0.000	0.00	0.0	0.000	0.00	100.4
14048.000	1.632	3.11	42.5	15.061	29.11	399.4	0.000	0.00	0.0	0.000	0.00	100.4
14050.000	1.551	3.18	45.7	14.727	29.79	429.1	0.000	0.00	0.0	0.000	0.00	100.4
14050.032	1.567	0.05	45.7	14.729	0.47	429.6	0.000	0.00	0.0	0.000	0.00	100.4
14052.000	2.293	3.80	49.5	14.904	29.16	458.8	0.000	0.00	0.0	0.000	0.00	100.4
14054.000	1.501	3.79	53.3	15.081	29.98	488.8	0.000	0.00	0.0	0.000	0.00	100.4
14055.211	0.817	1.40	54.7	15.185	18.33	507.1	0.000	0.00	0.0	0.000	0.00	100.4
14056.000	0.750	0.62	55.3	15.262	12.01	519.1	0.365	0.14	0.1	0.000	0.00	100.4
14058.000	0.881	1.63	56.9	14.739	30.00	549.1	0.000	0.37	0.5	0.000	0.00	100.4
14060.000	0.917	1.80	58.7	13.752	28.49	577.6	0.000	0.00	0.5	0.000	0.00	100.4
14060.534	0.929	0.49	59.2	13.508	7.28	584.9	0.000	0.00	0.5	0.000	0.00	100.4
14062.000	0.965	1.39	60.6	12.349	18.95	603.8	0.000	0.00	0.5	0.000	0.00	100.4
14064.000	1.024	1.99	62.6	12.304	24.65	628.5	0.000	0.00	0.5	0.000	0.00	100.4
14064.203	1.030	0.21	62.8	12.268	2.49	631.0	0.000	0.00	0.5	0.000	0.00	100.4

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
C.R.S. : ETRS89 (HUSO 31)

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* * * SUPERFICIES DE REFINO. AMBOS LADOS * * *
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TOTALES

	DESMONTE				TERRAPLÉN			
	TALUD		PLATAFORMA		TALUD		PLATAFORMA	
		Sup.Acumul.		Sup.Acumul.		Sup.Acumul.		Sup.Acumul.
	4231.7		6777.1		1158.6		9273.4	

1.1.2. FIRMES

1.1.2.1. TRONCO

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1734.276	S-CEMEN	7.874	0.00	0.0	G-25	2.308	0.00	0.0
	S-C Arc	0.322	0.00	0.0	S-20	1.626	0.00	0.0
	M-10	0.965	0.00	0.0	S-20 Arc	0.230	0.00	0.0
	M-10 Arc	0.138	0.00	0.0	ZA Arc	0.554	0.00	0.0
	Rellenos	2.165	0.00	0.0				
1740.000	S-CEMEN	7.590	44.27	44.3	G-25	2.204	12.92	12.9
	S-C Arc	0.322	1.84	1.8	S-20	1.552	9.10	9.1
	M-10	0.922	5.39	5.4	S-20 Arc	0.230	1.32	1.3
	M-10 Arc	0.138	0.79	0.8	ZA Arc	0.549	3.16	3.2
	Rellenos	2.273	12.80	12.8				
1750.000	S-CEMEN	7.122	73.52	117.8	G-25	2.036	21.19	34.1
	S-C Arc	0.322	3.22	5.1	S-20	1.433	14.92	24.0
	M-10	0.849	8.83	14.2	S-20 Arc	0.230	2.30	3.6
	M-10 Arc	0.138	1.38	2.2	ZA Arc	0.542	5.46	8.6
	Rellenos	2.355	23.15	36.0				
1760.000	S-CEMEN	6.728	69.20	187.0	G-25	1.896	19.64	53.7
	S-C Arc	0.322	3.22	8.3	S-20	1.332	13.81	37.8
	M-10	0.789	8.17	22.4	S-20 Arc	0.230	2.30	5.9
	M-10 Arc	0.138	1.38	3.6	ZA Arc	0.537	5.39	14.0
	Rellenos	2.425	23.87	59.8				
1770.000	S-CEMEN	6.438	65.76	252.8	G-25	1.794	18.42	72.2
	S-C Arc	0.322	3.22	11.5	S-20	1.260	12.94	50.8
	M-10	0.745	7.65	30.1	S-20 Arc	0.230	2.30	8.2
	M-10 Arc	0.138	1.38	4.9	ZA Arc	0.537	5.37	19.4
	Rellenos	2.491	24.58	84.4				
1780.000	S-CEMEN	6.255	63.38	316.1	G-25	1.730	17.59	89.8
	S-C Arc	0.322	3.22	14.7	S-20	1.214	12.34	63.1
	M-10	0.717	7.30	37.4	S-20 Arc	0.230	2.30	10.5
	M-10 Arc	0.138	1.38	6.3	ZA Arc	0.811	7.19	26.6
	Rellenos	2.667	25.97	110.4				
1790.000	S-CEMEN	6.190	62.20	378.3	G-25	1.707	17.18	106.9
	S-C Arc	0.322	3.22	17.9	S-20	1.197	12.05	75.2
	M-10	0.708	7.12	44.5	S-20 Arc	0.230	2.30	12.8
	M-10 Arc	0.139	1.38	7.7	ZA Arc	0.811	8.11	34.7
	Rellenos	2.725	26.95	137.3				

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1800.000	S-CEMEN	6.167	61.72	440.1	G-25	1.698	17.00	123.9
	S-C Arc	0.322	3.22	21.2	S-20	1.191	11.93	87.1
	M-10	0.704	7.05	51.5	S-20 Arc	0.230	2.30	15.1
	M-10 Arc	0.138	1.38	9.1	ZA Arc	0.811	8.11	42.8
	Rellenos	2.775	27.50	164.8				
1810.000	S-CEMEN	6.168	61.67	501.7	G-25	1.698	16.98	140.9
	S-C Arc	0.322	3.22	24.4	S-20	1.191	11.91	99.0
	M-10	0.704	7.04	58.6	S-20 Arc	0.230	2.30	17.4
	M-10 Arc	0.138	1.38	10.5	ZA Arc	1.039	8.50	51.3
	Rellenos	2.833	28.00	192.8				
1820.000	S-CEMEN	6.156	61.67	563.4	G-25	1.694	16.98	157.9
	S-C Arc	0.322	3.22	27.6	S-20	1.188	11.91	110.9
	M-10	0.701	7.04	65.6	S-20 Arc	0.230	2.30	19.7
	M-10 Arc	0.138	1.38	11.8	ZA Arc	1.040	10.38	61.6
	Rellenos	2.889	28.61	221.4				
1830.000	S-CEMEN	6.072	61.13	624.5	G-25	1.664	16.79	174.7
	S-C Arc	0.322	3.22	30.8	S-20	1.167	11.77	122.7
	M-10	0.689	6.95	72.5	S-20 Arc	0.230	2.30	22.0
	M-10 Arc	0.138	1.38	13.2	ZA Arc	1.053	10.49	72.1
	Rellenos	2.932	29.10	250.5				
1840.000	S-CEMEN	5.988	60.31	684.8	G-25	1.635	16.49	191.2
	S-C Arc	0.322	3.22	34.0	S-20	1.146	11.56	134.2
	M-10	0.676	6.82	79.4	S-20 Arc	0.230	2.30	24.3
	M-10 Arc	0.138	1.38	14.6	ZA Arc	1.052	10.53	82.7
	Rellenos	2.986	29.59	280.1				
1850.000	S-CEMEN	5.905	59.46	744.3	G-25	1.605	16.20	207.4
	S-C Arc	0.322	3.22	37.3	S-20	1.125	11.35	145.6
	M-10	0.664	6.70	86.1	S-20 Arc	0.230	2.30	26.6
	M-10 Arc	0.138	1.38	16.0	ZA Arc	0.953	9.90	92.6
	Rellenos	3.017	30.00	310.1				
1860.000	S-CEMEN	5.821	58.63	802.9	G-25	1.575	15.90	223.3
	S-C Arc	0.322	3.22	40.5	S-20	1.103	11.14	156.7
	M-10	0.651	6.57	92.6	S-20 Arc	0.230	2.30	28.9
	M-10 Arc	0.138	1.38	17.4	ZA Arc	0.974	9.56	102.1
	Rellenos	3.062	30.39	340.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1870.000	S-CEMEN	5.714	57.73	860.7	G-25	1.538	15.59	238.9
	S-C Arc	0.322	3.22	43.7	S-20	1.077	10.91	167.6
	M-10	0.635	6.44	99.1	S-20 Arc	0.230	2.30	31.2
	M-10 Arc	0.138	1.38	18.7	ZA Arc	0.974	9.73	111.9
	Rellenos	3.101	30.82	371.3				
1880.000	S-CEMEN	5.589	56.51	917.2	G-25	1.494	15.16	254.0
	S-C Arc	0.322	3.22	46.9	S-20	1.045	10.61	178.3
	M-10	0.616	6.26	105.3	S-20 Arc	0.230	2.30	33.5
	M-10 Arc	0.138	1.38	20.1	ZA Arc	0.974	9.74	121.6
	Rellenos	3.131	31.15	402.5				
1890.000	S-CEMEN	5.462	55.25	972.4	G-25	1.450	14.72	268.7
	S-C Arc	0.322	3.22	50.1	S-20	1.014	10.29	188.5
	M-10	0.597	6.07	111.4	S-20 Arc	0.230	2.30	35.8
	M-10 Arc	0.138	1.38	21.5	ZA Arc	0.974	9.74	131.3
	Rellenos	3.170	31.49	434.0				
1900.000	S-CEMEN	5.336	54.00	1026.4	G-25	1.406	14.28	283.0
	S-C Arc	0.322	3.22	53.4	S-20	0.982	9.98	198.5
	M-10	0.578	5.87	117.3	S-20 Arc	0.230	2.30	38.1
	M-10 Arc	0.138	1.38	22.9	ZA Arc	0.967	9.74	141.1
	Rellenos	3.199	31.84	465.8				
1910.000	S-CEMEN	5.283	53.05	1079.5	G-25	1.387	13.94	297.0
	S-C Arc	0.322	3.22	56.6	S-20	0.969	9.74	208.3
	M-10	0.570	5.73	123.0	S-20 Arc	0.230	2.30	40.4
	M-10 Arc	0.138	1.38	24.2	ZA Arc	0.961	9.62	150.7
	Rellenos	3.220	32.09	497.9				
1920.000	S-CEMEN	5.242	52.62	1132.1	G-25	1.372	13.79	310.8
	S-C Arc	0.322	3.22	59.8	S-20	0.958	9.63	217.9
	M-10	0.563	5.67	128.7	S-20 Arc	0.230	2.30	42.7
	M-10 Arc	0.138	1.38	25.6	ZA Arc	1.009	9.97	160.7
	Rellenos	3.253	32.36	530.3				
1930.000	S-CEMEN	5.201	52.20	1184.3	G-25	1.357	13.65	324.4
	S-C Arc	0.322	3.22	63.0	S-20	0.948	9.53	227.4
	M-10	0.557	5.61	134.3	S-20 Arc	0.230	2.30	45.0
	M-10 Arc	0.138	1.38	27.0	ZA Arc	1.009	10.08	170.7
	Rellenos	3.273	32.63	562.9				

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1940.000	S-CEMEN	5.159	51.80	1236.1	G-25	1.343	13.50	337.9
	S-C Arc	0.322	3.22	66.2	S-20	0.937	9.42	236.8
	M-10	0.551	5.54	139.8	S-20 Arc	0.230	2.30	47.3
	M-10 Arc	0.138	1.38	28.4	ZA Arc	0.989	9.95	180.7
	Rellenos	3.290	32.81	595.7				
1950.000	S-CEMEN	5.117	51.37	1287.5	G-25	1.328	13.35	351.3
	S-C Arc	0.322	3.22	69.5	S-20	0.926	9.32	246.2
	M-10	0.544	5.48	145.3	S-20 Arc	0.230	2.30	49.6
	M-10 Arc	0.138	1.38	29.8	ZA Arc	0.989	9.88	190.6
	Rellenos	3.303	32.96	628.7				
1960.000	S-CEMEN	5.075	50.96	1338.4	G-25	1.313	13.21	364.5
	S-C Arc	0.322	3.22	72.7	S-20	0.916	9.21	255.4
	M-10	0.538	5.42	150.7	S-20 Arc	0.230	2.30	51.9
	M-10 Arc	0.138	1.38	31.1	ZA Arc	1.087	9.90	200.5
	Rellenos	3.328	33.09	661.8				
1970.000	S-CEMEN	5.034	50.54	1389.0	G-25	1.299	13.06	377.5
	S-C Arc	0.322	3.22	75.9	S-20	0.906	9.11	264.5
	M-10	0.532	5.35	156.1	S-20 Arc	0.230	2.30	54.2
	M-10 Arc	0.138	1.38	32.5	ZA Arc	1.087	10.87	211.4
	Rellenos	3.331	33.30	695.1				
1980.000	S-CEMEN	4.992	50.13	1439.1	G-25	1.284	12.92	390.4
	S-C Arc	0.322	3.22	79.1	S-20	0.895	9.00	273.5
	M-10	0.525	5.29	161.4	S-20 Arc	0.230	2.30	56.5
	M-10 Arc	0.138	1.38	33.9	ZA Arc	1.087	10.87	222.2
	Rellenos	3.341	33.36	728.4				
1990.000	S-CEMEN	4.949	49.71	1488.8	G-25	1.269	12.77	403.2
	S-C Arc	0.322	3.22	82.3	S-20	0.885	8.90	282.4
	M-10	0.519	5.22	166.6	S-20 Arc	0.230	2.30	58.8
	M-10 Arc	0.138	1.38	35.3	ZA Arc	1.087	10.87	233.1
	Rellenos	3.342	33.42	761.8				
2000.000	S-CEMEN	4.908	49.29	1538.1	G-25	1.255	12.62	415.8
	S-C Arc	0.322	3.22	85.6	S-20	0.874	8.79	291.2
	M-10	0.513	5.16	171.7	S-20 Arc	0.230	2.30	61.1
	M-10 Arc	0.138	1.38	36.7	ZA Arc	1.087	10.87	244.0
	Rellenos	3.347	33.45	795.3				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2010.000	S-CEMEN	4.866	48.87	1587.0	G-25	1.240	12.47	428.3
	S-C Arc	0.322	3.22	88.8	S-20	0.864	8.69	299.9
	M-10	0.507	5.10	176.8	S-20 Arc	0.230	2.30	63.4
	M-10 Arc	0.138	1.38	38.0	ZA Arc	1.087	10.87	254.8
	Rellenos	3.339	33.43	828.7				
2020.000	S-CEMEN	4.822	48.44	1635.4	G-25	1.225	12.33	440.6
	S-C Arc	0.322	3.22	92.0	S-20	0.853	8.58	308.5
	M-10	0.501	5.04	181.9	S-20 Arc	0.230	2.30	65.7
	M-10 Arc	0.138	1.38	39.4	ZA Arc	1.087	10.87	265.7
	Rellenos	3.331	33.35	862.1				
2030.000	S-CEMEN	4.782	48.02	1683.4	G-25	1.211	12.18	452.8
	S-C Arc	0.322	3.22	95.2	S-20	0.843	8.48	316.9
	M-10	0.495	4.98	186.9	S-20 Arc	0.230	2.30	68.0
	M-10 Arc	0.138	1.38	40.8	ZA Arc	1.087	10.87	276.6
	Rellenos	3.332	33.32	895.4				
2040.000	S-CEMEN	4.775	47.76	1731.2	G-25	1.208	12.08	464.9
	S-C Arc	0.322	3.22	98.4	S-20	0.841	8.41	325.3
	M-10	0.494	4.94	191.8	S-20 Arc	0.230	2.30	70.3
	M-10 Arc	0.138	1.38	42.2	ZA Arc	1.087	10.87	287.4
	Rellenos	3.325	33.28	928.7				
2050.000	S-CEMEN	4.776	47.76	1778.9	G-25	1.208	12.08	477.0
	S-C Arc	0.322	3.22	101.7	S-20	0.841	8.41	333.8
	M-10	0.494	4.94	196.7	S-20 Arc	0.230	2.30	72.6
	M-10 Arc	0.138	1.38	43.6	ZA Arc	1.087	10.87	298.3
	Rellenos	3.310	33.17	961.8				
2060.000	S-CEMEN	4.776	47.76	1826.7	G-25	1.208	12.08	489.1
	S-C Arc	0.322	3.22	104.9	S-20	0.841	8.41	342.2
	M-10	0.494	4.94	201.7	S-20 Arc	0.230	2.30	74.9
	M-10 Arc	0.138	1.38	44.9	ZA Arc	1.087	10.87	309.2
	Rellenos	3.292	33.01	994.8				
2070.000	S-CEMEN	4.776	47.76	1874.5	G-25	1.208	12.08	501.2
	S-C Arc	0.322	3.22	108.1	S-20	0.841	8.41	350.6
	M-10	0.494	4.94	206.6	S-20 Arc	0.230	2.30	77.2
	M-10 Arc	0.138	1.38	46.3	ZA Arc	1.087	10.87	320.1
	Rellenos	3.277	32.83	1027.7				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2080.000	S-CEMEN	4.776	47.76	1922.2	G-25	1.208	12.08	513.2
	S-C Arc	0.322	3.22	111.3	S-20	0.841	8.41	359.0
	M-10	0.494	4.94	211.6	S-20 Arc	0.230	2.30	79.5
	M-10 Arc	0.138	1.38	47.7	ZA Arc	1.087	10.87	330.9
	Rellenos	3.258	32.67	1060.3				
2090.000	S-CEMEN	4.776	47.76	1970.0	G-25	1.208	12.08	525.3
	S-C Arc	0.322	3.22	114.5	S-20	0.841	8.41	367.4
	M-10	0.494	4.94	216.5	S-20 Arc	0.230	2.30	81.8
	M-10 Arc	0.138	1.38	49.1	ZA Arc	1.087	10.87	341.8
	Rellenos	3.245	32.52	1092.9				
2100.000	S-CEMEN	4.777	47.76	2017.7	G-25	1.208	12.08	537.4
	S-C Arc	0.322	3.22	117.8	S-20	0.841	8.41	375.8
	M-10	0.494	4.94	221.4	S-20 Arc	0.230	2.30	84.1
	M-10 Arc	0.138	1.38	50.5	ZA Arc	1.087	10.87	352.7
	Rellenos	3.210	32.28	1125.1				
2110.000	S-CEMEN	4.776	47.76	2065.5	G-25	1.208	12.08	549.5
	S-C Arc	0.322	3.22	121.0	S-20	0.841	8.41	384.2
	M-10	0.494	4.94	226.4	S-20 Arc	0.230	2.30	86.4
	M-10 Arc	0.138	1.38	51.8	ZA Arc	1.087	10.87	363.5
	Rellenos	3.179	31.95	1157.1				
2120.000	S-CEMEN	4.776	47.76	2113.3	G-25	1.208	12.08	561.6
	S-C Arc	0.322	3.22	124.2	S-20	0.841	8.41	392.6
	M-10	0.494	4.94	231.3	S-20 Arc	0.230	2.30	88.7
	M-10 Arc	0.138	1.38	53.2	ZA Arc	1.087	10.87	374.4
	Rellenos	3.148	31.64	1188.7				
2130.000	S-CEMEN	4.776	47.76	2161.0	G-25	1.208	12.08	573.7
	S-C Arc	0.322	3.22	127.4	S-20	0.841	8.41	401.0
	M-10	0.494	4.94	236.2	S-20 Arc	0.230	2.30	91.0
	M-10 Arc	0.138	1.38	54.6	ZA Arc	1.087	10.87	385.3
	Rellenos	3.109	31.28	1220.0				
2140.000	S-CEMEN	4.775	47.75	2208.8	G-25	1.208	12.08	585.7
	S-C Arc	0.322	3.22	130.6	S-20	0.841	8.41	409.5
	M-10	0.494	4.94	241.2	S-20 Arc	0.230	2.30	93.3
	M-10 Arc	0.138	1.38	56.0	ZA Arc	1.087	10.87	396.2
	Rellenos	3.067	30.88	1250.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2150.000	S-CEMEN	4.775	47.75	2256.5	G-25	1.208	12.08	597.8
	S-C Arc	0.322	3.22	133.9	S-20	0.841	8.41	417.9
	M-10	0.494	4.94	246.1	S-20 Arc	0.230	2.30	95.6
	M-10 Arc	0.138	1.38	57.4	ZA Arc	1.087	10.87	407.0
	Rellenos	3.023	30.45	1281.3				
2160.000	S-CEMEN	4.774	47.74	2304.3	G-25	1.208	12.08	609.9
	S-C Arc	0.322	3.22	137.1	S-20	0.841	8.41	426.3
	M-10	0.494	4.94	251.1	S-20 Arc	0.230	2.30	97.9
	M-10 Arc	0.138	1.38	58.7	ZA Arc	1.087	10.87	417.9
	Rellenos	2.978	30.00	1311.3				
2170.000	S-CEMEN	4.774	47.74	2352.0	G-25	1.208	12.08	622.0
	S-C Arc	0.322	3.22	140.3	S-20	0.841	8.41	434.7
	M-10	0.494	4.94	256.0	S-20 Arc	0.230	2.30	100.2
	M-10 Arc	0.138	1.38	60.1	ZA Arc	1.087	10.87	428.8
	Rellenos	2.930	29.54	1340.9				
2180.000	S-CEMEN	4.773	47.73	2399.8	G-25	1.208	12.08	634.1
	S-C Arc	0.322	3.22	143.5	S-20	0.841	8.41	443.1
	M-10	0.494	4.94	260.9	S-20 Arc	0.230	2.30	102.5
	M-10 Arc	0.138	1.38	61.5	ZA Arc	1.087	10.87	439.6
	Rellenos	2.881	29.06	1369.9				
2190.000	S-CEMEN	4.773	47.73	2447.5	G-25	1.208	12.08	646.2
	S-C Arc	0.322	3.22	146.7	S-20	0.841	8.41	451.5
	M-10	0.494	4.94	265.9	S-20 Arc	0.230	2.30	104.8
	M-10 Arc	0.138	1.38	62.9	ZA Arc	1.087	10.87	450.5
	Rellenos	2.823	28.52	1398.5				
2200.000	S-CEMEN	4.772	47.72	2495.2	G-25	1.208	12.08	658.2
	S-C Arc	0.322	3.22	150.0	S-20	0.841	8.41	459.9
	M-10	0.494	4.94	270.8	S-20 Arc	0.230	2.30	107.1
	M-10 Arc	0.138	1.38	64.3	ZA Arc	1.087	10.87	461.4
	Rellenos	2.766	27.94	1426.4				
2210.000	S-CEMEN	4.771	47.71	2542.9	G-25	1.208	12.08	670.3
	S-C Arc	0.322	3.22	153.2	S-20	0.841	8.41	468.3
	M-10	0.494	4.94	275.8	S-20 Arc	0.230	2.30	109.4
	M-10 Arc	0.138	1.38	65.7	ZA Arc	1.087	10.87	472.2
	Rellenos	2.708	27.37	1453.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2220.000	S-CEMEN	4.770	47.71	2590.6	G-25	1.208	12.08	682.4
	S-C Arc	0.322	3.22	156.4	S-20	0.841	8.41	476.7
	M-10	0.494	4.94	280.7	S-20 Arc	0.230	2.30	111.7
	M-10 Arc	0.138	1.38	67.0	ZA Arc	1.087	10.87	483.1
	Rellenos	2.639	26.74	1480.5				
2230.000	S-CEMEN	4.769	47.70	2638.3	G-25	1.208	12.08	694.5
	S-C Arc	0.322	3.22	159.6	S-20	0.841	8.41	485.1
	M-10	0.494	4.94	285.6	S-20 Arc	0.230	2.30	114.0
	M-10 Arc	0.138	1.38	68.4	ZA Arc	1.087	10.87	494.0
	Rellenos	2.582	26.11	1506.6				
2240.000	S-CEMEN	4.768	47.69	2686.0	G-25	1.208	12.08	706.6
	S-C Arc	0.322	3.22	162.8	S-20	0.841	8.41	493.6
	M-10	0.494	4.94	290.6	S-20 Arc	0.230	2.30	116.3
	M-10 Arc	0.138	1.38	69.8	ZA Arc	1.087	10.87	504.9
	Rellenos	2.510	25.45	1532.1				
2250.000	S-CEMEN	4.767	47.68	2733.7	G-25	1.208	12.08	718.7
	S-C Arc	0.322	3.22	166.1	S-20	0.841	8.41	502.0
	M-10	0.494	4.94	295.5	S-20 Arc	0.230	2.30	118.6
	M-10 Arc	0.138	1.38	71.2	ZA Arc	1.087	10.87	515.7
	Rellenos	2.437	24.73	1556.8				
2260.000	S-CEMEN	4.766	47.67	2781.4	G-25	1.208	12.08	730.7
	S-C Arc	0.322	3.22	169.3	S-20	0.841	8.41	510.4
	M-10	0.494	4.94	300.4	S-20 Arc	0.230	2.30	120.9
	M-10 Arc	0.138	1.38	72.6	ZA Arc	1.087	10.87	526.6
	Rellenos	2.354	23.96	1580.7				
2270.000	S-CEMEN	4.765	47.65	2829.0	G-25	1.208	12.08	742.8
	S-C Arc	0.322	3.22	172.5	S-20	0.841	8.41	518.8
	M-10	0.494	4.94	305.4	S-20 Arc	0.230	2.30	123.2
	M-10 Arc	0.138	1.38	73.9	ZA Arc	1.087	10.87	537.5
	Rellenos	2.273	23.13	1603.9				
2280.000	S-CEMEN	4.755	47.60	2876.6	G-25	1.209	12.08	754.9
	S-C Arc	0.322	3.22	175.7	S-20	0.841	8.41	527.2
	M-10	0.493	4.94	310.3	S-20 Arc	0.230	2.30	125.5
	M-10 Arc	0.138	1.38	75.3	ZA Arc	1.116	11.00	548.5
	Rellenos	2.197	22.34	1626.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2290.000	S-CEMEN	4.746	47.50	2924.1	G-25	1.208	12.08	767.0
	S-C Arc	0.322	3.22	178.9	S-20	0.841	8.41	535.6
	M-10	0.494	4.93	315.3	S-20 Arc	0.230	2.30	127.8
	M-10 Arc	0.138	1.38	76.7	ZA Arc	1.144	11.30	559.8
	Rellenos	2.129	21.63	1647.9				
2300.000	S-CEMEN	4.736	47.41	2971.5	G-25	1.209	12.08	779.1
	S-C Arc	0.322	3.22	182.2	S-20	0.841	8.41	544.0
	M-10	0.493	4.93	320.2	S-20 Arc	0.230	2.30	130.1
	M-10 Arc	0.138	1.38	78.1	ZA Arc	1.169	11.56	571.3
	Rellenos	2.068	20.98	1668.8				
2310.000	S-CEMEN	4.726	47.31	3018.8	G-25	1.208	12.08	791.2
	S-C Arc	0.322	3.22	185.4	S-20	0.841	8.41	552.4
	M-10	0.493	4.93	325.1	S-20 Arc	0.230	2.30	132.4
	M-10 Arc	0.138	1.38	79.5	ZA Arc	0.935	10.52	581.8
	Rellenos	1.940	20.04	1688.9				
2320.000	S-CEMEN	4.733	47.30	3066.1	G-25	1.208	12.08	803.2
	S-C Arc	0.322	3.22	188.6	S-20	0.842	8.41	560.8
	M-10	0.493	4.93	330.0	S-20 Arc	0.230	2.30	134.7
	M-10 Arc	0.138	1.38	80.8	ZA Arc	0.584	7.59	589.4
	Rellenos	1.888	19.14	1708.0				
2330.000	S-CEMEN	4.735	47.34	3113.5	G-25	1.208	12.08	815.3
	S-C Arc	0.322	3.22	191.8	S-20	0.841	8.41	569.3
	M-10	0.494	4.93	335.0	S-20 Arc	0.230	2.30	137.0
	M-10 Arc	0.138	1.38	82.2	ZA Arc	0.591	5.87	595.3
	Rellenos	1.846	18.67	1726.7				
2340.000	S-CEMEN	4.734	47.34	3160.8	G-25	1.208	12.08	827.4
	S-C Arc	0.322	3.22	195.0	S-20	0.841	8.41	577.7
	M-10	0.494	4.94	339.9	S-20 Arc	0.230	2.30	139.3
	M-10 Arc	0.138	1.38	83.6	ZA Arc	0.578	5.86	601.2
	Rellenos	1.817	18.30	1745.0				
2350.000	S-CEMEN	4.733	47.34	3208.1	G-25	1.208	12.08	839.5
	S-C Arc	0.322	3.22	198.3	S-20	0.841	8.41	586.1
	M-10	0.493	4.94	344.9	S-20 Arc	0.230	2.30	141.6
	M-10 Arc	0.138	1.38	85.0	ZA Arc	0.561	5.70	606.9
	Rellenos	1.800	18.09	1763.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2360.000	S-CEMEN	4.733	47.33	3255.5	G-25	1.208	12.08	851.6
	S-C Arc	0.322	3.22	201.5	S-20	0.841	8.41	594.5
	M-10	0.493	4.94	349.8	S-20 Arc	0.230	2.30	143.9
	M-10 Arc	0.138	1.38	86.4	ZA Arc	0.543	5.52	612.4
	Rellenos	1.788	17.94	1781.0				
2370.000	S-CEMEN	4.732	47.33	3302.8	G-25	1.208	12.08	863.6
	S-C Arc	0.322	3.22	204.7	S-20	0.841	8.41	602.9
	M-10	0.494	4.93	354.7	S-20 Arc	0.230	2.30	146.2
	M-10 Arc	0.138	1.38	87.7	ZA Arc	0.525	5.34	617.7
	Rellenos	1.775	17.81	1798.8				
2380.000	S-CEMEN	4.733	47.33	3350.1	G-25	1.208	12.08	875.7
	S-C Arc	0.322	3.22	207.9	S-20	0.841	8.41	611.3
	M-10	0.494	4.94	359.7	S-20 Arc	0.230	2.30	148.5
	M-10 Arc	0.138	1.38	89.1	ZA Arc	0.517	5.19	622.9
	Rellenos	1.753	17.66	1816.5				
2390.000	S-CEMEN	4.732	47.33	3397.4	G-25	1.208	12.08	887.8
	S-C Arc	0.322	3.22	211.2	S-20	0.841	8.41	619.7
	M-10	0.494	4.94	364.6	S-20 Arc	0.230	2.30	150.8
	M-10 Arc	0.138	1.38	90.5	ZA Arc	0.827	6.72	629.6
	Rellenos	1.773	17.63	1834.1				
2400.000	S-CEMEN	4.732	47.32	3444.8	G-25	1.208	12.08	899.9
	S-C Arc	0.322	3.22	214.4	S-20	0.841	8.41	628.1
	M-10	0.494	4.94	369.5	S-20 Arc	0.230	2.30	153.1
	M-10 Arc	0.138	1.38	91.9	ZA Arc	0.827	8.27	637.9
	Rellenos	1.747	17.60	1851.7				
2410.000	S-CEMEN	4.732	47.32	3492.1	G-25	1.208	12.08	912.0
	S-C Arc	0.322	3.22	217.6	S-20	0.841	8.41	636.5
	M-10	0.494	4.94	374.5	S-20 Arc	0.230	2.30	155.4
	M-10 Arc	0.138	1.38	93.3	ZA Arc	0.827	8.27	646.2
	Rellenos	1.721	17.34	1869.0				
2420.000	S-CEMEN	4.731	47.31	3539.4	G-25	1.208	12.08	924.1
	S-C Arc	0.322	3.22	220.8	S-20	0.841	8.41	644.9
	M-10	0.494	4.94	379.4	S-20 Arc	0.230	2.30	157.7
	M-10 Arc	0.138	1.38	94.6	ZA Arc	0.281	5.54	651.7
	Rellenos	1.556	16.38	1885.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2430.000	S-CEMEN	4.687	47.09	3586.5	G-25	1.208	12.08	936.1
	S-C Arc	0.322	3.22	224.0	S-20	0.841	8.41	653.4
	M-10	0.494	4.94	384.4	S-20 Arc	0.230	2.30	160.0
	M-10 Arc	0.138	1.38	96.0	ZA Arc	0.259	2.70	654.4
	Rellenos	1.488	15.22	1900.7				
2440.000	S-CEMEN	4.730	47.09	3633.6	G-25	1.208	12.08	948.2
	S-C Arc	0.322	3.22	227.2	S-20	0.841	8.41	661.8
	M-10	0.494	4.94	389.3	S-20 Arc	0.230	2.30	162.3
	M-10 Arc	0.138	1.38	97.4	ZA Arc	0.827	5.43	659.9
	Rellenos	1.642	15.65	1916.3				
2450.000	S-CEMEN	4.730	47.30	3680.9	G-25	1.208	12.08	960.3
	S-C Arc	0.322	3.22	230.5	S-20	0.841	8.41	670.2
	M-10	0.494	4.94	394.2	S-20 Arc	0.230	2.30	164.6
	M-10 Arc	0.138	1.38	98.8	ZA Arc	0.827	8.27	668.1
	Rellenos	1.616	16.29	1932.6				
2460.000	S-CEMEN	4.729	47.30	3728.2	G-25	1.208	12.08	972.4
	S-C Arc	0.322	3.22	233.7	S-20	0.841	8.41	678.6
	M-10	0.494	4.94	399.2	S-20 Arc	0.230	2.30	166.9
	M-10 Arc	0.138	1.38	100.2	ZA Arc	0.827	8.27	676.4
	Rellenos	1.590	16.03	1948.6				
2470.000	S-CEMEN	4.729	47.29	3775.5	G-25	1.208	12.08	984.5
	S-C Arc	0.322	3.22	236.9	S-20	0.841	8.41	687.0
	M-10	0.494	4.94	404.1	S-20 Arc	0.230	2.30	169.2
	M-10 Arc	0.138	1.38	101.5	ZA Arc	0.827	8.27	684.7
	Rellenos	1.564	15.77	1964.4				
2480.000	S-CEMEN	4.728	47.29	3822.7	G-25	1.208	12.08	996.6
	S-C Arc	0.322	3.22	240.1	S-20	0.841	8.41	695.4
	M-10	0.494	4.94	409.0	S-20 Arc	0.230	2.30	171.5
	M-10 Arc	0.138	1.38	102.9	ZA Arc	0.827	8.27	692.9
	Rellenos	1.538	15.51	1979.9				
2490.000	S-CEMEN	4.728	47.28	3870.0	G-25	1.208	12.08	1008.6
	S-C Arc	0.322	3.22	243.3	S-20	0.841	8.41	703.8
	M-10	0.494	4.94	414.0	S-20 Arc	0.230	2.30	173.8
	M-10 Arc	0.138	1.38	104.3	ZA Arc	1.066	9.47	702.4
	Rellenos	1.558	15.48	1995.4				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2500.000	S-CEMEN	4.727	47.28	3917.3	G-25	1.208	12.08	1020.7
	S-C Arc	0.322	3.22	246.6	S-20	0.841	8.41	712.2
	M-10	0.494	4.94	418.9	S-20 Arc	0.230	2.30	176.1
	M-10 Arc	0.138	1.38	105.7	ZA Arc	1.137	11.19	713.6
	Rellenos	1.532	15.45	2010.8				
2510.000	S-CEMEN	4.727	47.27	3964.6	G-25	1.208	12.08	1032.8
	S-C Arc	0.322	3.22	249.8	S-20	0.841	8.41	720.6
	M-10	0.494	4.94	423.9	S-20 Arc	0.230	2.30	178.4
	M-10 Arc	0.138	1.38	107.1	ZA Arc	1.137	11.37	725.0
	Rellenos	1.506	15.19	2026.0				
2520.000	S-CEMEN	4.726	47.27	4011.8	G-25	1.208	12.08	1044.9
	S-C Arc	0.322	3.22	253.0	S-20	0.841	8.41	729.0
	M-10	0.494	4.94	428.8	S-20 Arc	0.230	2.30	180.7
	M-10 Arc	0.138	1.38	108.4	ZA Arc	0.758	10.42	735.4
	Rellenos	1.435	14.82	2040.8				
2530.000	S-CEMEN	4.726	47.26	4059.1	G-25	1.208	12.08	1057.0
	S-C Arc	0.322	3.22	256.2	S-20	0.841	8.41	737.5
	M-10	0.494	4.94	433.7	S-20 Arc	0.230	2.30	183.0
	M-10 Arc	0.138	1.38	109.8	ZA Arc	0.827	7.92	743.3
	Rellenos	1.408	14.22	2055.1				
2540.000	S-CEMEN	4.725	47.26	4106.4	G-25	1.208	12.08	1069.0
	S-C Arc	0.322	3.22	259.4	S-20	0.841	8.41	745.9
	M-10	0.494	4.94	438.7	S-20 Arc	0.230	2.30	185.3
	M-10 Arc	0.138	1.38	111.2	ZA Arc	0.827	8.27	751.6
	Rellenos	1.382	13.95	2069.0				
2550.000	S-CEMEN	4.725	47.25	4153.6	G-25	1.208	12.08	1081.1
	S-C Arc	0.322	3.22	262.7	S-20	0.841	8.41	754.3
	M-10	0.494	4.94	443.6	S-20 Arc	0.230	2.30	187.6
	M-10 Arc	0.138	1.38	112.6	ZA Arc	0.827	8.27	759.9
	Rellenos	1.356	13.69	2082.7				
2560.000	S-CEMEN	4.724	47.24	4200.9	G-25	1.208	12.08	1093.2
	S-C Arc	0.322	3.22	265.9	S-20	0.841	8.41	762.7
	M-10	0.494	4.94	448.5	S-20 Arc	0.230	2.30	189.9
	M-10 Arc	0.138	1.38	114.0	ZA Arc	0.496	6.62	766.5
	Rellenos	1.287	13.22	2095.9				

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TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2570.000	S-CEMEN	4.724	47.24	4248.1	G-25	1.209	12.08	1105.3
	S-C Arc	0.322	3.22	269.1	S-20	0.841	8.41	771.1
	M-10	0.493	4.94	453.5	S-20 Arc	0.230	2.30	192.2
	M-10 Arc	0.138	1.38	115.3	ZA Arc	0.519	5.08	771.6
	Rellenos	1.267	12.77	2108.7				
2580.000	S-CEMEN	4.723	47.23	4295.3	G-25	1.208	12.08	1117.4
	S-C Arc	0.322	3.22	272.3	S-20	0.841	8.41	779.5
	M-10	0.494	4.94	458.4	S-20 Arc	0.230	2.30	194.5
	M-10 Arc	0.138	1.38	116.7	ZA Arc	0.535	5.27	776.8
	Rellenos	1.240	12.54	2121.2				
2590.000	S-CEMEN	4.723	47.24	4342.6	G-25	1.208	12.08	1129.5
	S-C Arc	0.322	3.22	275.5	S-20	0.841	8.41	787.9
	M-10	0.494	4.94	463.4	S-20 Arc	0.230	2.30	196.8
	M-10 Arc	0.138	1.38	118.1	ZA Arc	0.551	5.43	782.3
	Rellenos	1.218	12.29	2133.5				
2600.000	S-CEMEN	4.724	47.24	4389.8	G-25	1.209	12.08	1141.5
	S-C Arc	0.322	3.22	278.8	S-20	0.841	8.41	796.3
	M-10	0.493	4.94	468.3	S-20 Arc	0.230	2.30	199.1
	M-10 Arc	0.138	1.38	119.5	ZA Arc	0.567	5.59	787.8
	Rellenos	1.198	12.08	2145.6				
2600.000	S-CEMEN	4.724	0.00	4389.8	G-25	1.209	0.00	1141.5
	S-C Arc	0.322	0.00	278.8	S-20	0.841	0.00	796.3
	M-10	0.493	0.00	468.3	S-20 Arc	0.230	0.00	199.1
	M-10 Arc	0.138	0.00	119.5	ZA Arc	0.567	0.00	787.8
	Rellenos	1.198	0.00	2145.6				
2610.000	S-CEMEN	4.724	47.24	4437.0	G-25	1.208	12.08	1153.6
	S-C Arc	0.322	3.22	282.0	S-20	0.841	8.41	804.7
	M-10	0.494	4.94	473.2	S-20 Arc	0.230	2.30	201.4
	M-10 Arc	0.138	1.38	120.9	ZA Arc	0.583	5.75	793.6
	Rellenos	1.181	11.90	2157.5				
2620.000	S-CEMEN	4.723	47.24	4484.3	G-25	1.208	12.08	1165.7
	S-C Arc	0.322	3.22	285.2	S-20	0.841	8.41	813.2
	M-10	0.494	4.94	478.2	S-20 Arc	0.230	2.30	203.7
	M-10 Arc	0.138	1.38	122.3	ZA Arc	0.591	5.89	799.5
	Rellenos	1.171	11.75	2169.2				

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TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2630.000	S-CEMEN	4.719	47.21	4531.5	G-25	1.209	12.08	1177.8
	S-C Arc	0.322	3.22	288.4	S-20	0.841	8.41	821.6
	M-10	0.493	4.94	483.1	S-20 Arc	0.230	2.30	206.0
	M-10 Arc	0.138	1.38	123.6	ZA Arc	0.583	5.87	805.3
	Rellenos	1.165	11.68	2180.9				
2640.000	S-CEMEN	4.711	47.15	4578.6	G-25	1.208	12.09	1189.9
	S-C Arc	0.322	3.22	291.6	S-20	0.842	8.41	830.0
	M-10	0.493	4.93	488.0	S-20 Arc	0.230	2.30	208.3
	M-10 Arc	0.138	1.38	125.0	ZA Arc	0.561	5.72	811.1
	Rellenos	1.157	11.61	2192.5				
2650.000	S-CEMEN	4.718	47.14	4625.8	G-25	1.209	12.08	1202.0
	S-C Arc	0.322	3.22	294.9	S-20	0.841	8.41	838.4
	M-10	0.494	4.94	493.0	S-20 Arc	0.230	2.30	210.6
	M-10 Arc	0.138	1.38	126.4	ZA Arc	0.555	5.58	816.6
	Rellenos	1.147	11.52	2204.1				
2660.000	S-CEMEN	4.694	47.06	4672.8	G-25	1.209	12.09	1214.1
	S-C Arc	0.322	3.22	298.1	S-20	0.841	8.41	846.8
	M-10	0.494	4.94	497.9	S-20 Arc	0.230	2.30	212.9
	M-10 Arc	0.138	1.38	127.8	ZA Arc	0.329	4.42	821.1
	Rellenos	0.992	10.70	2214.7				
2670.000	S-CEMEN	4.732	47.13	4720.0	G-25	1.208	12.09	1226.1
	S-C Arc	0.322	3.22	301.3	S-20	0.841	8.41	855.2
	M-10	0.494	4.94	502.9	S-20 Arc	0.230	2.30	215.2
	M-10 Arc	0.138	1.38	129.2	ZA Arc	0.816	5.72	826.8
	Rellenos	1.221	11.06	2225.8				
2680.000	S-CEMEN	4.737	47.34	4767.3	G-25	1.208	12.08	1238.2
	S-C Arc	0.322	3.22	304.5	S-20	0.841	8.41	863.6
	M-10	0.494	4.94	507.8	S-20 Arc	0.230	2.30	217.5
	M-10 Arc	0.138	1.38	130.5	ZA Arc	0.813	8.14	834.9
	Rellenos	1.221	12.21	2238.0				
2690.000	S-CEMEN	4.740	47.39	4814.7	G-25	1.208	12.08	1250.3
	S-C Arc	0.322	3.22	307.8	S-20	0.841	8.41	872.0
	M-10	0.494	4.94	512.7	S-20 Arc	0.230	2.30	219.8
	M-10 Arc	0.138	1.38	131.9	ZA Arc	0.811	8.11	843.0
	Rellenos	1.220	12.20	2250.2				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2700.000	S-CEMEN	4.740	47.40	4862.1	G-25	1.208	12.08	1262.4
	S-C Arc	0.322	3.22	311.0	S-20	0.841	8.41	880.4
	M-10	0.494	4.94	517.7	S-20 Arc	0.230	2.30	222.1
	M-10 Arc	0.138	1.38	133.3	ZA Arc	0.811	8.11	851.1
	Rellenos	1.221	12.20	2262.4				
2710.000	S-CEMEN	4.740	47.40	4909.5	G-25	1.208	12.08	1274.5
	S-C Arc	0.322	3.22	314.2	S-20	0.841	8.41	888.9
	M-10	0.494	4.94	522.6	S-20 Arc	0.230	2.30	224.4
	M-10 Arc	0.138	1.38	134.7	ZA Arc	0.811	8.11	859.2
	Rellenos	1.221	12.21	2274.6				
2720.000	S-CEMEN	4.740	47.40	4956.9	G-25	1.208	12.08	1286.6
	S-C Arc	0.322	3.22	317.4	S-20	0.841	8.41	897.3
	M-10	0.494	4.94	527.5	S-20 Arc	0.230	2.30	226.7
	M-10 Arc	0.138	1.38	136.1	ZA Arc	1.087	10.18	869.4
	Rellenos	1.221	12.21	2286.8				
2730.000	S-CEMEN	4.740	47.40	5004.3	G-25	1.208	12.08	1298.6
	S-C Arc	0.322	3.22	320.6	S-20	0.841	8.41	905.7
	M-10	0.494	4.94	532.5	S-20 Arc	0.230	2.30	229.0
	M-10 Arc	0.138	1.38	137.4	ZA Arc	1.087	10.87	880.3
	Rellenos	1.221	12.21	2299.1				
2740.000	S-CEMEN	4.740	47.40	5051.7	G-25	1.208	12.08	1310.7
	S-C Arc	0.322	3.22	323.9	S-20	0.841	8.41	914.1
	M-10	0.494	4.94	537.4	S-20 Arc	0.230	2.30	231.3
	M-10 Arc	0.138	1.38	138.8	ZA Arc	1.087	10.87	891.2
	Rellenos	1.221	12.21	2311.3				
2750.000	S-CEMEN	4.740	47.40	5099.1	G-25	1.208	12.08	1322.8
	S-C Arc	0.322	3.22	327.1	S-20	0.841	8.41	922.5
	M-10	0.494	4.94	542.4	S-20 Arc	0.230	2.30	233.6
	M-10 Arc	0.138	1.38	140.2	ZA Arc	1.087	10.87	902.0
	Rellenos	1.221	12.21	2323.5				
2760.000	S-CEMEN	4.740	47.40	5146.5	G-25	1.208	12.08	1334.9
	S-C Arc	0.322	3.22	330.3	S-20	0.841	8.41	930.9
	M-10	0.494	4.94	547.3	S-20 Arc	0.230	2.30	235.9
	M-10 Arc	0.138	1.38	141.6	ZA Arc	1.087	10.87	912.9
	Rellenos	1.221	12.21	2335.7				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2770.000	S-CEMEN	4.740	47.40	5193.9	G-25	1.208	12.08	1347.0
	S-C Arc	0.322	3.22	333.5	S-20	0.841	8.41	939.3
	M-10	0.494	4.94	552.2	S-20 Arc	0.230	2.30	238.2
	M-10 Arc	0.138	1.38	143.0	ZA Arc	1.087	10.87	923.8
	Rellenos	1.221	12.21	2347.9				
2780.000	S-CEMEN	4.740	47.40	5241.3	G-25	1.208	12.08	1359.0
	S-C Arc	0.322	3.22	336.7	S-20	0.841	8.41	947.7
	M-10	0.494	4.94	557.2	S-20 Arc	0.230	2.30	240.5
	M-10 Arc	0.138	1.38	144.4	ZA Arc	1.087	10.87	934.6
	Rellenos	1.221	12.21	2360.1				
2790.000	S-CEMEN	4.740	47.40	5288.7	G-25	1.208	12.08	1371.1
	S-C Arc	0.322	3.22	340.0	S-20	0.841	8.41	956.1
	M-10	0.494	4.94	562.1	S-20 Arc	0.230	2.30	242.8
	M-10 Arc	0.138	1.38	145.7	ZA Arc	1.087	10.87	945.5
	Rellenos	1.221	12.21	2372.3				
2800.000	S-CEMEN	4.740	47.40	5336.1	G-25	1.208	12.08	1383.2
	S-C Arc	0.322	3.22	343.2	S-20	0.841	8.41	964.5
	M-10	0.494	4.94	567.0	S-20 Arc	0.230	2.30	245.1
	M-10 Arc	0.138	1.38	147.1	ZA Arc	1.087	10.87	956.4
	Rellenos	1.221	12.21	2384.5				
2810.000	S-CEMEN	4.740	47.40	5383.5	G-25	1.208	12.08	1395.3
	S-C Arc	0.322	3.22	346.4	S-20	0.841	8.41	973.0
	M-10	0.494	4.94	572.0	S-20 Arc	0.230	2.30	247.4
	M-10 Arc	0.138	1.38	148.5	ZA Arc	1.087	10.87	967.3
	Rellenos	1.221	12.21	2396.8				
2820.000	S-CEMEN	4.740	47.40	5430.9	G-25	1.208	12.08	1407.4
	S-C Arc	0.322	3.22	349.6	S-20	0.841	8.41	981.4
	M-10	0.494	4.94	576.9	S-20 Arc	0.230	2.30	249.7
	M-10 Arc	0.138	1.38	149.9	ZA Arc	1.087	10.87	978.1
	Rellenos	1.221	12.21	2409.0				
2830.000	S-CEMEN	4.740	47.40	5478.3	G-25	1.208	12.08	1419.5
	S-C Arc	0.322	3.22	352.8	S-20	0.841	8.41	989.8
	M-10	0.494	4.94	581.9	S-20 Arc	0.230	2.30	252.0
	M-10 Arc	0.138	1.38	151.3	ZA Arc	1.087	10.87	989.0
	Rellenos	1.221	12.21	2421.2				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2840.000	S-CEMEN	4.740	47.40	5525.7	G-25	1.208	12.08	1431.5
	S-C Arc	0.322	3.22	356.1	S-20	0.841	8.41	998.2
	M-10	0.494	4.94	586.8	S-20 Arc	0.230	2.30	254.3
	M-10 Arc	0.138	1.38	152.6	ZA Arc	1.087	10.87	999.9
	Rellenos	1.222	12.21	2433.4				
2850.000	S-CEMEN	4.740	47.40	5573.1	G-25	1.208	12.08	1443.6
	S-C Arc	0.322	3.22	359.3	S-20	0.841	8.41	1006.6
	M-10	0.494	4.94	591.7	S-20 Arc	0.230	2.30	256.6
	M-10 Arc	0.138	1.38	154.0	ZA Arc	1.087	10.87	1010.7
	Rellenos	1.221	12.21	2445.6				
2860.000	S-CEMEN	4.740	47.40	5620.5	G-25	1.208	12.08	1455.7
	S-C Arc	0.322	3.22	362.5	S-20	0.841	8.41	1015.0
	M-10	0.494	4.94	596.7	S-20 Arc	0.230	2.30	258.9
	M-10 Arc	0.138	1.38	155.4	ZA Arc	1.087	10.87	1021.6
	Rellenos	1.221	12.21	2457.8				
2870.000	S-CEMEN	4.740	47.40	5667.9	G-25	1.208	12.08	1467.8
	S-C Arc	0.322	3.22	365.7	S-20	0.841	8.41	1023.4
	M-10	0.494	4.94	601.6	S-20 Arc	0.230	2.30	261.2
	M-10 Arc	0.138	1.38	156.8	ZA Arc	1.087	10.87	1032.5
	Rellenos	1.221	12.21	2470.0				
2880.000	S-CEMEN	4.740	47.40	5715.3	G-25	1.208	12.08	1479.9
	S-C Arc	0.322	3.22	368.9	S-20	0.841	8.41	1031.8
	M-10	0.494	4.94	606.5	S-20 Arc	0.230	2.30	263.5
	M-10 Arc	0.138	1.38	158.2	ZA Arc	1.087	10.87	1043.4
	Rellenos	1.221	12.21	2482.3				
2890.000	S-CEMEN	4.740	47.40	5762.7	G-25	1.208	12.08	1492.0
	S-C Arc	0.322	3.22	372.2	S-20	0.841	8.41	1040.2
	M-10	0.494	4.94	611.5	S-20 Arc	0.230	2.30	265.8
	M-10 Arc	0.138	1.38	159.5	ZA Arc	1.087	10.87	1054.2
	Rellenos	1.221	12.21	2494.5				
2900.000	S-CEMEN	4.740	47.40	5810.1	G-25	1.208	12.08	1504.0
	S-C Arc	0.322	3.22	375.4	S-20	0.841	8.41	1048.7
	M-10	0.494	4.94	616.4	S-20 Arc	0.230	2.30	268.1
	M-10 Arc	0.138	1.38	160.9	ZA Arc	1.087	10.87	1065.1
	Rellenos	1.221	12.21	2506.7				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2900.000	S-CEMEN	4.740	0.00	5810.1	G-25	1.208	0.00	1504.0
	S-C Arc	0.322	0.00	375.4	S-20	0.841	0.00	1048.7
	M-10	0.494	0.00	616.4	S-20 Arc	0.230	0.00	268.1
	M-10 Arc	0.138	0.00	160.9	ZA Arc	1.087	0.00	1065.1
	Rellenos	1.221	0.00	2506.7				
2910.000	S-CEMEN	4.740	47.40	5857.5	G-25	1.208	12.08	1516.1
	S-C Arc	0.322	3.22	378.6	S-20	0.841	8.41	1057.1
	M-10	0.494	4.94	621.4	S-20 Arc	0.230	2.30	270.4
	M-10 Arc	0.138	1.38	162.3	ZA Arc	1.087	10.87	1076.0
	Rellenos	1.221	12.21	2518.9				
2920.000	S-CEMEN	4.740	47.40	5904.9	G-25	1.208	12.08	1528.2
	S-C Arc	0.322	3.22	381.8	S-20	0.841	8.41	1065.5
	M-10	0.494	4.94	626.3	S-20 Arc	0.230	2.30	272.7
	M-10 Arc	0.138	1.38	163.7	ZA Arc	1.087	10.87	1086.8
	Rellenos	1.221	12.21	2531.1				
2930.000	S-CEMEN	4.740	47.40	5952.3	G-25	1.208	12.08	1540.3
	S-C Arc	0.322	3.22	385.0	S-20	0.841	8.41	1073.9
	M-10	0.494	4.94	631.2	S-20 Arc	0.230	2.30	275.0
	M-10 Arc	0.138	1.38	165.1	ZA Arc	1.087	10.87	1097.7
	Rellenos	1.221	12.21	2543.3				
2940.000	S-CEMEN	4.740	47.40	5999.7	G-25	1.208	12.08	1552.4
	S-C Arc	0.322	3.22	388.3	S-20	0.841	8.41	1082.3
	M-10	0.494	4.94	636.2	S-20 Arc	0.230	2.30	277.3
	M-10 Arc	0.138	1.38	166.4	ZA Arc	1.087	10.87	1108.6
	Rellenos	1.221	12.21	2555.5				
2950.000	S-CEMEN	4.740	47.40	6047.1	G-25	1.208	12.08	1564.5
	S-C Arc	0.322	3.22	391.5	S-20	0.841	8.41	1090.7
	M-10	0.494	4.94	641.1	S-20 Arc	0.230	2.30	279.6
	M-10 Arc	0.138	1.38	167.8	ZA Arc	1.087	10.87	1119.4
	Rellenos	1.221	12.21	2567.7				
2960.000	S-CEMEN	4.740	47.40	6094.5	G-25	1.208	12.08	1576.5
	S-C Arc	0.322	3.22	394.7	S-20	0.841	8.41	1099.1
	M-10	0.494	4.94	646.1	S-20 Arc	0.230	2.30	281.9
	M-10 Arc	0.138	1.38	169.2	ZA Arc	1.087	10.87	1130.3
	Rellenos	1.221	12.21	2579.9				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2970.000	S-CEMEN	4.737	47.39	6141.9	G-25	1.208	12.08	1588.6
	S-C Arc	0.322	3.22	397.9	S-20	0.841	8.41	1107.5
	M-10	0.494	4.94	651.0	S-20 Arc	0.230	2.30	284.2
	M-10 Arc	0.138	1.38	170.6	ZA Arc	1.106	10.93	1141.2
	Rellenos	1.221	12.21	2592.2				
2980.000	S-CEMEN	4.731	47.34	6189.2	G-25	1.208	12.08	1600.7
	S-C Arc	0.322	3.22	401.1	S-20	0.841	8.41	1115.9
	M-10	0.494	4.94	655.9	S-20 Arc	0.230	2.30	286.5
	M-10 Arc	0.138	1.38	172.0	ZA Arc	1.132	11.19	1152.4
	Rellenos	1.223	12.22	2604.4				
2990.000	S-CEMEN	4.724	47.27	6236.5	G-25	1.209	12.08	1612.8
	S-C Arc	0.322	3.22	404.4	S-20	0.841	8.41	1124.4
	M-10	0.494	4.94	660.9	S-20 Arc	0.230	2.30	288.8
	M-10 Arc	0.138	1.38	173.3	ZA Arc	1.155	11.43	1163.9
	Rellenos	1.227	12.25	2616.6				
3000.000	S-CEMEN	4.718	47.21	6283.7	G-25	1.208	12.08	1624.9
	S-C Arc	0.322	3.22	407.6	S-20	0.841	8.41	1132.8
	M-10	0.493	4.94	665.8	S-20 Arc	0.230	2.30	291.1
	M-10 Arc	0.138	1.38	174.7	ZA Arc	1.177	11.66	1175.5
	Rellenos	1.231	12.29	2628.9				
3010.000	S-CEMEN	4.728	47.19	6330.9	G-25	1.214	12.10	1637.0
	S-C Arc	0.322	3.22	410.8	S-20	0.845	8.42	1141.2
	M-10	0.496	4.94	670.7	S-20 Arc	0.230	2.30	293.4
	M-10 Arc	0.138	1.38	176.1	ZA Arc	1.199	11.88	1187.4
	Rellenos	1.238	12.35	2641.3				
3020.000	S-CEMEN	4.771	47.49	6378.4	G-25	1.225	12.20	1649.2
	S-C Arc	0.322	3.22	414.0	S-20	0.854	8.49	1149.7
	M-10	0.501	4.99	675.7	S-20 Arc	0.230	2.30	295.7
	M-10 Arc	0.138	1.38	177.5	ZA Arc	1.269	12.34	1199.8
	Rellenos	1.236	12.37	2653.6				
3030.000	S-CEMEN	4.804	47.87	6426.2	G-25	1.236	12.31	1661.5
	S-C Arc	0.322	3.22	417.2	S-20	0.861	8.57	1158.2
	M-10	0.506	5.04	680.8	S-20 Arc	0.230	2.30	298.0
	M-10 Arc	0.138	1.38	178.9	ZA Arc	1.286	12.78	1212.5
	Rellenos	1.231	12.33	2666.0				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3040.000	S-CEMEN	4.834	48.19	6474.4	G-25	1.247	12.42	1673.9
	S-C Arc	0.322	3.22	420.5	S-20	0.869	8.65	1166.9
	M-10	0.511	5.08	685.9	S-20 Arc	0.230	2.30	300.3
	M-10 Arc	0.138	1.38	180.2	ZA Arc	1.266	12.80	1225.3
	Rellenos	1.238	12.33	2678.3				
3050.000	S-CEMEN	4.866	48.50	6522.9	G-25	1.258	12.53	1686.4
	S-C Arc	0.322	3.22	423.7	S-20	0.877	8.73	1175.6
	M-10	0.515	5.13	691.0	S-20 Arc	0.230	2.30	302.6
	M-10 Arc	0.138	1.38	181.6	ZA Arc	1.236	12.51	1237.8
	Rellenos	1.253	12.46	2690.8				
3060.000	S-CEMEN	4.897	48.81	6571.7	G-25	1.270	12.64	1699.1
	S-C Arc	0.322	3.22	426.9	S-20	0.885	8.81	1184.4
	M-10	0.520	5.18	696.2	S-20 Arc	0.230	2.30	304.9
	M-10 Arc	0.138	1.38	183.0	ZA Arc	1.203	12.20	1250.0
	Rellenos	1.268	12.60	2703.4				
3070.000	S-CEMEN	4.928	49.12	6620.9	G-25	1.280	12.75	1711.8
	S-C Arc	0.322	3.22	430.1	S-20	0.892	8.89	1193.3
	M-10	0.525	5.22	701.4	S-20 Arc	0.230	2.30	307.2
	M-10 Arc	0.138	1.38	184.4	ZA Arc	1.169	11.86	1261.9
	Rellenos	1.284	12.76	2716.1				
3080.000	S-CEMEN	4.959	49.43	6670.3	G-25	1.291	12.86	1724.7
	S-C Arc	0.322	3.22	433.3	S-20	0.900	8.96	1202.3
	M-10	0.529	5.27	706.6	S-20 Arc	0.230	2.30	309.5
	M-10 Arc	0.138	1.38	185.8	ZA Arc	1.137	11.52	1273.4
	Rellenos	1.300	12.92	2729.0				
3090.000	S-CEMEN	4.990	49.75	6720.0	G-25	1.303	12.97	1737.6
	S-C Arc	0.322	3.22	436.6	S-20	0.909	9.04	1211.3
	M-10	0.534	5.32	712.0	S-20 Arc	0.230	2.30	311.8
	M-10 Arc	0.138	1.38	187.1	ZA Arc	1.137	11.37	1284.8
	Rellenos	1.300	13.00	2742.0				
3100.000	S-CEMEN	5.022	50.06	6770.1	G-25	1.313	13.08	1750.7
	S-C Arc	0.322	3.22	439.8	S-20	0.916	9.12	1220.5
	M-10	0.539	5.36	717.3	S-20 Arc	0.230	2.30	314.1
	M-10 Arc	0.138	1.38	188.5	ZA Arc	1.137	11.37	1296.1
	Rellenos	1.299	13.00	2755.0				

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3110.000	S-CEMEN	5.077	50.50	6820.6	G-25	1.333	13.23	1763.9
	S-C Arc	0.322	3.22	443.0	S-20	0.930	9.23	1229.7
	M-10	0.547	5.43	722.8	S-20 Arc	0.230	2.30	316.4
	M-10 Arc	0.138	1.38	189.9	ZA Arc	1.137	11.37	1307.5
	Rellenos	1.300	13.00	2768.0				
3120.000	S-CEMEN	5.133	51.06	6871.7	G-25	1.352	13.43	1777.4
	S-C Arc	0.322	3.22	446.2	S-20	0.944	9.37	1239.1
	M-10	0.556	5.51	728.3	S-20 Arc	0.230	2.30	318.7
	M-10 Arc	0.138	1.38	191.3	ZA Arc	1.137	11.37	1318.9
	Rellenos	1.300	13.00	2781.0				
3120.000	S-CEMEN	5.133	0.00	6871.7	G-25	1.352	0.00	1777.4
	S-C Arc	0.322	0.00	446.2	S-20	0.944	0.00	1239.1
	M-10	0.556	0.00	728.3	S-20 Arc	0.230	0.00	318.7
	M-10 Arc	0.138	0.00	191.3	ZA Arc	1.137	0.00	1318.9
	Rellenos	1.300	0.00	2781.0				
3130.000	S-CEMEN	5.189	51.61	6923.3	G-25	1.372	13.62	1791.0
	S-C Arc	0.322	3.22	449.4	S-20	0.958	9.51	1248.6
	M-10	0.564	5.60	733.9	S-20 Arc	0.230	2.30	321.0
	M-10 Arc	0.138	1.38	192.7	ZA Arc	1.137	11.37	1330.3
	Rellenos	1.300	13.00	2794.0				
3140.000	S-CEMEN	5.245	52.17	6975.4	G-25	1.392	13.82	1804.8
	S-C Arc	0.322	3.22	452.7	S-20	0.972	9.65	1258.2
	M-10	0.573	5.68	739.6	S-20 Arc	0.230	2.30	323.3
	M-10 Arc	0.138	1.38	194.0	ZA Arc	1.137	11.37	1341.6
	Rellenos	1.300	13.00	2807.0				
3150.000	S-CEMEN	5.302	52.73	7028.2	G-25	1.410	14.01	1818.8
	S-C Arc	0.322	3.22	455.9	S-20	0.986	9.79	1268.0
	M-10	0.580	5.77	745.3	S-20 Arc	0.230	2.30	325.6
	M-10 Arc	0.138	1.38	195.4	ZA Arc	1.137	11.37	1353.0
	Rellenos	1.300	13.00	2820.0				
3160.000	S-CEMEN	5.357	53.29	7081.5	G-25	1.431	14.21	1833.0
	S-C Arc	0.322	3.22	459.1	S-20	1.000	9.93	1277.9
	M-10	0.589	5.85	751.2	S-20 Arc	0.230	2.30	327.9
	M-10 Arc	0.138	1.38	196.8	ZA Arc	0.721	9.29	1362.3
	Rellenos	1.237	12.68	2832.7				

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PROYECTO : VARIANTE DE OURENSE
EJE: 1: TRONCO TRAMO B

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3170.000	S-CEMEN	5.416	53.86	7135.3	G-25	1.450	14.40	1847.4
	S-C Arc	0.322	3.22	462.3	S-20	1.014	10.07	1288.0
	M-10	0.597	5.93	757.1	S-20 Arc	0.230	2.30	330.2
	M-10 Arc	0.138	1.38	198.2	ZA Arc	0.827	7.74	1370.0
	Rellenos	1.254	12.45	2845.2				
3180.000	S-CEMEN	5.423	54.22	7189.5	G-25	1.453	14.53	1862.0
	S-C Arc	0.322	3.22	465.5	S-20	1.016	10.16	1298.2
	M-10	0.599	5.99	763.1	S-20 Arc	0.230	2.30	332.5
	M-10 Arc	0.138	1.38	199.6	ZA Arc	0.827	8.27	1378.3
	Rellenos	1.254	12.54	2857.7				
3180.000	S-CEMEN	5.423	0.00	7189.5	G-25	1.453	0.00	1862.0
	S-C Arc	0.322	0.00	465.5	S-20	1.016	0.00	1298.2
	M-10	0.599	0.00	763.1	S-20 Arc	0.230	0.00	332.5
	M-10 Arc	0.138	0.00	199.6	ZA Arc	0.827	0.00	1378.3
	Rellenos	1.254	0.00	2857.7				
3190.000	S-CEMEN	5.423	54.23	7243.8	G-25	1.453	14.53	1876.5
	S-C Arc	0.322	3.22	468.8	S-20	1.016	10.16	1308.3
	M-10	0.598	5.99	769.1	S-20 Arc	0.230	2.30	334.8
	M-10 Arc	0.138	1.38	200.9	ZA Arc	0.827	8.27	1386.6
	Rellenos	1.254	12.54	2870.2				
3200.000	S-CEMEN	5.424	54.22	7298.0	G-25	1.453	14.53	1891.0
	S-C Arc	0.322	3.22	472.0	S-20	1.016	10.16	1318.5
	M-10	0.598	5.99	775.1	S-20 Arc	0.230	2.30	337.1
	M-10 Arc	0.138	1.38	202.3	ZA Arc	0.827	8.27	1394.8
	Rellenos	1.254	12.54	2882.8				
3210.000	S-CEMEN	5.423	54.23	7352.2	G-25	1.453	14.53	1905.6
	S-C Arc	0.322	3.22	475.2	S-20	1.016	10.16	1328.6
	M-10	0.599	5.99	781.0	S-20 Arc	0.230	2.30	339.4
	M-10 Arc	0.138	1.38	203.7	ZA Arc	0.793	8.10	1402.9
	Rellenos	1.254	12.54	2895.3				
3220.000	S-CEMEN	5.422	54.22	7406.4	G-25	1.453	14.53	1920.1
	S-C Arc	0.322	3.22	478.4	S-20	1.016	10.16	1338.8
	M-10	0.599	5.99	787.0	S-20 Arc	0.230	2.30	341.7
	M-10 Arc	0.138	1.38	205.1	ZA Arc	1.137	9.65	1412.6
	Rellenos	1.299	12.77	2908.1				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3230.000	S-CEMEN	5.422	54.22	7460.7	G-25	1.453	14.53	1934.6
	S-C Arc	0.322	3.22	481.6	S-20	1.016	10.16	1349.0
	M-10	0.599	5.99	793.0	S-20 Arc	0.230	2.30	344.0
	M-10 Arc	0.138	1.38	206.5	ZA Arc	1.137	11.37	1424.0
	Rellenos	1.299	12.99	2921.1				
3240.000	S-CEMEN	5.422	54.22	7514.9	G-25	1.453	14.53	1949.2
	S-C Arc	0.322	3.22	484.9	S-20	1.016	10.16	1359.1
	M-10	0.599	5.99	799.0	S-20 Arc	0.230	2.30	346.3
	M-10 Arc	0.138	1.38	207.8	ZA Arc	1.137	11.37	1435.3
	Rellenos	1.299	12.99	2934.1				
3250.000	S-CEMEN	5.422	54.22	7569.1	G-25	1.453	14.53	1963.7
	S-C Arc	0.322	3.22	488.1	S-20	1.016	10.16	1369.3
	M-10	0.599	5.99	805.0	S-20 Arc	0.230	2.30	348.6
	M-10 Arc	0.138	1.38	209.2	ZA Arc	1.137	11.37	1446.7
	Rellenos	1.300	13.00	2947.1				
3260.000	S-CEMEN	5.422	54.22	7623.3	G-25	1.453	14.53	1978.2
	S-C Arc	0.322	3.22	491.3	S-20	1.016	10.16	1379.4
	M-10	0.599	5.99	811.0	S-20 Arc	0.230	2.30	350.9
	M-10 Arc	0.138	1.38	210.6	ZA Arc	1.137	11.37	1458.1
	Rellenos	1.299	12.99	2960.1				
3270.000	S-CEMEN	5.422	54.22	7677.5	G-25	1.453	14.53	1992.8
	S-C Arc	0.322	3.22	494.5	S-20	1.016	10.16	1389.6
	M-10	0.599	5.99	817.0	S-20 Arc	0.230	2.30	353.2
	M-10 Arc	0.138	1.38	212.0	ZA Arc	1.137	11.37	1469.4
	Rellenos	1.299	12.99	2973.1				
3280.000	S-CEMEN	5.422	54.22	7731.8	G-25	1.453	14.53	2007.3
	S-C Arc	0.322	3.22	497.7	S-20	1.016	10.16	1399.8
	M-10	0.599	5.99	823.0	S-20 Arc	0.230	2.30	355.5
	M-10 Arc	0.138	1.38	213.4	ZA Arc	1.137	11.37	1480.8
	Rellenos	1.299	12.99	2986.1				
3290.000	S-CEMEN	5.422	54.22	7786.0	G-25	1.453	14.53	2021.8
	S-C Arc	0.322	3.22	501.0	S-20	1.016	10.16	1409.9
	M-10	0.599	5.99	828.9	S-20 Arc	0.230	2.30	357.8
	M-10 Arc	0.138	1.38	214.7	ZA Arc	1.137	11.37	1492.2
	Rellenos	1.299	12.99	2999.1				

TRONCO GENERAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3300.000	S-CEMEN	5.422	54.22	7840.2	G-25	1.453	14.53	2036.3
	S-C Arc	0.322	3.22	504.2	S-20	1.016	10.16	1420.1
	M-10	0.599	5.99	834.9	S-20 Arc	0.230	2.30	360.1
	M-10 Arc	0.138	1.38	216.1	ZA Arc	1.137	11.37	1503.5
	Rellenos	1.300	13.00	3012.0				
3300.000	S-CEMEN	5.422	0.00	7840.2	G-25	1.453	0.00	2036.3
	S-C Arc	0.322	0.00	504.2	S-20	1.016	0.00	1420.1
	M-10	0.599	0.00	834.9	S-20 Arc	0.230	0.00	360.1
	M-10 Arc	0.138	0.00	216.1	ZA Arc	1.137	0.00	1503.5
	Rellenos	1.300	0.00	3012.0				
3310.000	S-CEMEN	5.422	54.22	7894.4	G-25	1.453	14.53	2050.9
	S-C Arc	0.322	3.22	507.4	S-20	1.016	10.16	1430.2
	M-10	0.599	5.99	840.9	S-20 Arc	0.230	2.30	362.4
	M-10 Arc	0.138	1.38	217.5	ZA Arc	1.137	11.37	1514.9
	Rellenos	1.300	13.00	3025.0				
3320.000	S-CEMEN	5.422	54.22	7948.6	G-25	1.453	14.53	2065.4
	S-C Arc	0.322	3.22	510.6	S-20	1.016	10.16	1440.4
	M-10	0.599	5.99	846.9	S-20 Arc	0.230	2.30	364.7
	M-10 Arc	0.138	1.38	218.9	ZA Arc	1.137	11.37	1526.3
	Rellenos	1.301	13.00	3038.0				
3330.000	S-CEMEN	5.422	54.22	8002.9	G-25	1.453	14.53	2079.9
	S-C Arc	0.322	3.22	513.8	S-20	1.016	10.16	1450.6
	M-10	0.599	5.99	852.9	S-20 Arc	0.230	2.30	367.0
	M-10 Arc	0.138	1.38	220.3	ZA Arc	1.137	11.37	1537.6
	Rellenos	1.308	13.04	3051.1				
3340.000	S-CEMEN	5.422	54.22	8057.1	G-25	1.453	14.53	2094.5
	S-C Arc	0.322	3.22	517.1	S-20	1.016	10.16	1460.7
	M-10	0.599	5.99	858.9	S-20 Arc	0.230	2.30	369.3
	M-10 Arc	0.138	1.38	221.6	ZA Arc	1.137	11.37	1549.0
	Rellenos	1.309	13.09	3064.2				
3350.000	S-CEMEN	5.424	54.23	8111.3	G-25	1.453	14.53	2109.0
	S-C Arc	0.322	3.22	520.3	S-20	1.016	10.16	1470.9
	M-10	0.598	5.99	864.9	S-20 Arc	0.230	2.30	371.6
	M-10 Arc	0.138	1.38	223.0	ZA Arc	1.160	11.45	1560.5
	Rellenos	1.288	13.00	3077.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3360.000	S-CEMEN	5.422	54.22	8165.5	G-25	1.453	14.53	2123.5
	S-C Arc	0.322	3.22	523.5	S-20	1.016	10.16	1481.0
	M-10	0.599	5.99	870.9	S-20 Arc	0.230	2.30	373.9
	M-10 Arc	0.138	1.38	224.4	ZA Arc	1.193	11.77	1572.2
	Rellenos	1.274	12.81	3090.0				
3370.000	S-CEMEN	5.423	54.23	8219.8	G-25	1.453	14.53	2138.1
	S-C Arc	0.322	3.22	526.7	S-20	1.017	10.16	1491.2
	M-10	0.598	5.99	876.8	S-20 Arc	0.230	2.30	376.2
	M-10 Arc	0.138	1.38	225.8	ZA Arc	1.225	12.09	1584.3
	Rellenos	1.262	12.68	3102.7				
3380.000	S-CEMEN	5.424	54.24	8274.0	G-25	1.453	14.53	2152.6
	S-C Arc	0.322	3.22	529.9	S-20	1.016	10.16	1501.4
	M-10	0.598	5.98	882.8	S-20 Arc	0.230	2.30	378.5
	M-10 Arc	0.138	1.38	227.2	ZA Arc	1.255	12.40	1596.7
	Rellenos	1.254	12.58	3115.2				
3390.000	S-CEMEN	5.423	54.24	8328.2	G-25	1.454	14.54	2167.1
	S-C Arc	0.322	3.22	533.2	S-20	1.016	10.16	1511.5
	M-10	0.599	5.98	888.8	S-20 Arc	0.230	2.30	380.8
	M-10 Arc	0.138	1.38	228.6	ZA Arc	1.284	12.70	1609.4
	Rellenos	1.256	12.55	3127.8				
3400.000	S-CEMEN	5.425	54.24	8382.5	G-25	1.453	14.54	2181.7
	S-C Arc	0.322	3.22	536.4	S-20	1.016	10.16	1521.7
	M-10	0.598	5.99	894.8	S-20 Arc	0.230	2.30	383.1
	M-10 Arc	0.138	1.38	229.9	ZA Arc	1.281	12.85	1622.3
	Rellenos	1.298	12.76	3140.5				
3410.000	S-CEMEN	5.419	54.22	8436.7	G-25	1.453	14.53	2196.2
	S-C Arc	0.322	3.22	539.6	S-20	1.016	10.16	1531.8
	M-10	0.599	5.99	900.8	S-20 Arc	0.230	2.30	385.4
	M-10 Arc	0.138	1.38	231.3	ZA Arc	1.235	12.58	1634.9
	Rellenos	1.374	13.36	3153.9				
3420.000	S-CEMEN	5.368	53.94	8490.6	G-25	1.453	14.53	2210.7
	S-C Arc	0.322	3.22	542.8	S-20	1.017	10.16	1542.0
	M-10	0.599	5.99	906.8	S-20 Arc	0.230	2.30	387.7
	M-10 Arc	0.138	1.38	232.7	ZA Arc	1.188	12.11	1647.0
	Rellenos	1.112	12.43	3166.3				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3430.000	S-CEMEN	5.369	53.69	8544.3	G-25	1.453	14.53	2225.3
	S-C Arc	0.322	3.22	546.0	S-20	1.017	10.17	1552.2
	M-10	0.598	5.99	912.8	S-20 Arc	0.230	2.30	390.0
	M-10 Arc	0.138	1.38	234.1	ZA Arc	1.168	11.78	1658.7
	Rellenos	1.088	11.00	3177.3				
3440.000	S-CEMEN	5.373	53.71	8598.0	G-25	1.453	14.53	2239.8
	S-C Arc	0.322	3.22	549.3	S-20	1.016	10.16	1562.3
	M-10	0.599	5.99	918.7	S-20 Arc	0.230	2.30	392.3
	M-10 Arc	0.138	1.38	235.5	ZA Arc	1.146	11.57	1670.3
	Rellenos	1.056	10.72	3188.1				
3450.000	S-CEMEN	5.376	53.74	8651.8	G-25	1.454	14.53	2254.3
	S-C Arc	0.322	3.22	552.5	S-20	1.016	10.16	1572.5
	M-10	0.599	5.99	924.7	S-20 Arc	0.230	2.30	394.6
	M-10 Arc	0.138	1.38	236.8	ZA Arc	1.122	11.34	1681.7
	Rellenos	1.044	10.50	3198.6				
3460.000	S-CEMEN	5.381	53.78	8705.6	G-25	1.453	14.53	2268.9
	S-C Arc	0.323	3.22	555.7	S-20	1.016	10.16	1582.7
	M-10	0.599	5.99	930.7	S-20 Arc	0.230	2.30	396.9
	M-10 Arc	0.138	1.38	238.2	ZA Arc	1.096	11.09	1692.7
	Rellenos	1.050	10.47	3209.0				
3470.000	S-CEMEN	5.513	54.15	8759.7	G-25	1.467	14.56	2283.4
	S-C Arc	0.322	3.22	558.9	S-20	1.026	10.18	1592.8
	M-10	0.605	6.00	936.7	S-20 Arc	0.230	2.30	399.2
	M-10 Arc	0.138	1.38	239.6	ZA Arc	1.087	10.89	1703.6
	Rellenos	2.500	14.18	3223.2				
3480.000	S-CEMEN	5.598	55.55	8815.3	G-25	1.495	14.81	2298.2
	S-C Arc	0.322	3.22	562.2	S-20	1.046	10.36	1603.2
	M-10	0.616	6.11	942.8	S-20 Arc	0.230	2.30	401.5
	M-10 Arc	0.138	1.38	241.0	ZA Arc	1.087	10.87	1714.5
	Rellenos	2.774	26.37	3249.6				
3490.000	S-CEMEN	5.681	56.40	8871.7	G-25	1.524	15.09	2313.3
	S-C Arc	0.322	3.22	565.4	S-20	1.066	10.56	1613.8
	M-10	0.628	6.23	949.0	S-20 Arc	0.230	2.30	403.8
	M-10 Arc	0.139	1.38	242.4	ZA Arc	1.087	10.87	1725.4
	Rellenos	3.067	29.21	3278.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3500.000	S-CEMEN	5.766	57.24	8928.9	G-25	1.552	15.38	2328.7
	S-C Arc	0.322	3.22	568.6	S-20	1.087	10.76	1624.5
	M-10	0.641	6.35	955.4	S-20 Arc	0.230	2.30	406.1
	M-10 Arc	0.138	1.38	243.7	ZA Arc	1.087	10.87	1736.2
	Rellenos	3.371	32.19	3311.0				
3510.000	S-CEMEN	5.852	58.08	8987.0	G-25	1.581	15.67	2344.4
	S-C Arc	0.322	3.22	571.8	S-20	1.107	10.97	1635.5
	M-10	0.653	6.47	961.9	S-20 Arc	0.230	2.30	408.4
	M-10 Arc	0.138	1.38	245.1	ZA Arc	1.087	10.87	1747.1
	Rellenos	3.676	35.24	3346.2				
3520.000	S-CEMEN	5.935	58.93	9045.9	G-25	1.611	15.96	2360.3
	S-C Arc	0.322	3.22	575.0	S-20	1.128	11.18	1646.7
	M-10	0.666	6.60	968.5	S-20 Arc	0.230	2.30	410.7
	M-10 Arc	0.138	1.38	246.5	ZA Arc	1.087	10.87	1758.0
	Rellenos	3.975	38.25	3384.5				
3530.000	S-CEMEN	6.020	59.78	9105.7	G-25	1.641	16.25	2376.6
	S-C Arc	0.322	3.22	578.3	S-20	1.150	11.39	1658.1
	M-10	0.678	6.73	975.2	S-20 Arc	0.230	2.30	413.0
	M-10 Arc	0.138	1.38	247.9	ZA Arc	1.087	10.87	1768.9
	Rellenos	4.278	41.27	3425.7				
3540.000	S-CEMEN	6.107	60.63	9166.3	G-25	1.670	16.56	2393.1
	S-C Arc	0.322	3.22	581.5	S-20	1.171	11.60	1669.7
	M-10	0.692	6.85	982.0	S-20 Arc	0.230	2.30	415.3
	M-10 Arc	0.138	1.38	249.3	ZA Arc	1.087	10.87	1779.7
	Rellenos	4.565	44.21	3469.9				
3550.000	S-CEMEN	6.188	61.51	9227.8	G-25	1.698	16.85	2410.0
	S-C Arc	0.322	3.22	584.7	S-20	1.191	11.82	1681.5
	M-10	0.704	6.98	989.0	S-20 Arc	0.230	2.30	417.6
	M-10 Arc	0.138	1.38	250.6	ZA Arc	0.847	9.97	1789.7
	Rellenos	4.755	46.72	3516.7				
3560.000	S-CEMEN	6.189	61.88	9289.7	G-25	1.698	16.98	2427.0
	S-C Arc	0.322	3.22	587.9	S-20	1.191	11.91	1693.4
	M-10	0.704	7.04	996.1	S-20 Arc	0.230	2.30	419.9
	M-10 Arc	0.138	1.38	252.0	ZA Arc	0.847	8.47	1798.2
	Rellenos	5.037	48.96	3565.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3570.000	S-CEMEN	6.217	61.93	9351.6	G-25	1.708	17.00	2444.0
	S-C Arc	0.322	3.22	591.1	S-20	1.198	11.92	1705.3
	M-10	0.708	7.04	1003.1	S-20 Arc	0.230	2.30	422.2
	M-10 Arc	0.138	1.38	253.4	ZA Arc	0.477	7.78	1805.9
	Rellenos	5.316	51.76	3617.4				
3580.000	S-CEMEN	6.468	63.22	9414.9	G-25	1.796	17.45	2461.4
	S-C Arc	0.322	3.22	594.4	S-20	1.261	12.24	1717.5
	M-10	0.745	7.24	1010.3	S-20 Arc	0.230	2.30	424.5
	M-10 Arc	0.138	1.38	254.8	ZA Arc	0.404	4.89	1810.8
	Rellenos	5.442	53.79	3671.2				
3590.000	S-CEMEN	6.821	66.42	9481.3	G-25	1.969	18.75	2480.2
	S-C Arc	0.263	2.97	597.3	S-20	1.384	13.17	1730.7
	M-10	0.820	7.79	1018.1	S-20 Arc	0.186	2.11	426.6
	M-10 Arc	0.112	1.26	256.0	ZA Arc	0.346	3.55	1814.4
	Rellenos	5.690	55.57	3726.7				
3600.000	S-CEMEN	7.353	70.76	9552.0	G-25	2.190	20.85	2501.0
	S-C Arc	0.228	2.37	599.7	S-20	1.543	14.67	1745.4
	M-10	0.915	8.69	1026.8	S-20 Arc	0.161	1.67	428.3
	M-10 Arc	0.097	1.00	257.0	ZA Arc	0.346	3.46	1817.9
	Rellenos	5.954	58.22	3785.0				
3600.000	S-CEMEN	7.353	0.00	9552.0	G-25	2.190	0.00	2501.0
	S-C Arc	0.228	0.00	599.7	S-20	1.543	0.00	1745.4
	M-10	0.915	0.00	1026.8	S-20 Arc	0.161	0.00	428.3
	M-10 Arc	0.097	0.00	257.0	ZA Arc	0.346	0.00	1817.9
	Rellenos	5.954	0.00	3785.0				
3610.000	S-CEMEN	7.691	75.47	9627.5	G-25	2.309	22.58	2523.6
	S-C Arc	0.228	2.28	602.0	S-20	1.627	15.91	1761.3
	M-10	0.964	9.44	1036.3	S-20 Arc	0.161	1.61	429.9
	M-10 Arc	0.097	0.97	258.0	ZA Arc	0.346	3.46	1821.3
	Rellenos	6.215	60.85	3845.8				
3620.000	S-CEMEN	7.748	77.37	9704.9	G-25	2.329	23.25	2546.8
	S-C Arc	0.228	2.28	604.2	S-20	1.642	16.39	1777.7
	M-10	0.974	9.72	1046.0	S-20 Arc	0.161	1.61	431.5
	M-10 Arc	0.097	0.97	259.0	ZA Arc	0.346	3.46	1824.8
	Rellenos	6.466	63.41	3909.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3630.000	S-CEMEN	7.749	77.48	9782.4	G-25	2.329	23.29	2570.1
	S-C Arc	0.228	2.28	606.5	S-20	1.642	16.41	1794.1
	M-10	0.974	9.74	1055.7	S-20 Arc	0.161	1.61	433.1
	M-10 Arc	0.097	0.97	259.9	ZA Arc	0.346	3.46	1828.2
	Rellenos	6.713	65.90	3975.1				
3640.000	S-CEMEN	7.748	77.48	9859.8	G-25	2.328	23.28	2593.4
	S-C Arc	0.228	2.28	608.8	S-20	1.641	16.42	1810.5
	M-10	0.974	9.74	1065.4	S-20 Arc	0.161	1.61	434.7
	M-10 Arc	0.097	0.97	260.9	ZA Arc	0.346	3.46	1831.7
	Rellenos	6.959	68.36	4043.5				
3650.000	S-CEMEN	7.748	77.48	9937.3	G-25	2.328	23.29	2616.7
	S-C Arc	0.228	2.28	611.1	S-20	1.641	16.41	1826.9
	M-10	0.974	9.74	1075.2	S-20 Arc	0.161	1.61	436.3
	M-10 Arc	0.097	0.97	261.9	ZA Arc	0.346	3.46	1835.2
	Rellenos	7.190	70.74	4114.2				
3660.000	S-CEMEN	7.749	77.48	10014.8	G-25	2.328	23.29	2640.0
	S-C Arc	0.228	2.28	613.4	S-20	1.641	16.41	1843.3
	M-10	0.974	9.74	1084.9	S-20 Arc	0.161	1.61	437.9
	M-10 Arc	0.097	0.97	262.8	ZA Arc	0.346	3.46	1838.6
	Rellenos	7.426	73.07	4187.3				
3670.000	S-CEMEN	7.748	77.48	10092.3	G-25	2.328	23.29	2663.3
	S-C Arc	0.228	2.28	615.6	S-20	1.641	16.41	1859.7
	M-10	0.974	9.74	1094.7	S-20 Arc	0.161	1.61	439.6
	M-10 Arc	0.097	0.97	263.8	ZA Arc	0.346	3.46	1842.1
	Rellenos	7.646	75.36	4262.7				
3680.000	S-CEMEN	7.749	77.49	10169.8	G-25	2.328	23.28	2686.6
	S-C Arc	0.228	2.28	617.9	S-20	1.642	16.42	1876.2
	M-10	0.974	9.74	1104.4	S-20 Arc	0.161	1.61	441.2
	M-10 Arc	0.097	0.97	264.8	ZA Arc	0.346	3.46	1845.6
	Rellenos	7.867	77.57	4340.2				
3690.000	S-CEMEN	7.749	77.49	10247.3	G-25	2.329	23.29	2709.8
	S-C Arc	0.228	2.28	620.2	S-20	1.641	16.41	1892.6
	M-10	0.974	9.74	1114.1	S-20 Arc	0.161	1.61	442.8
	M-10 Arc	0.097	0.97	265.7	ZA Arc	0.346	3.46	1849.0
	Rellenos	8.080	79.73	4420.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3700.000	S-CEMEN	9.863	96.17	10343.4	G-25	3.098	30.14	2740.0
	S-C Arc	0.209	2.11	622.3	S-20	2.192	21.31	1913.9
	M-10	1.303	12.68	1126.8	S-20 Arc	0.154	1.55	444.3
	M-10 Arc	0.091	0.94	266.7	ZA Arc	0.258	3.07	1852.1
	Rellenos	8.250	81.67	4501.6				
3710.000	S-CEMEN	9.948	99.11	10442.5	G-25	3.099	30.99	2771.0
	S-C Arc	0.195	2.02	624.3	S-20	2.192	21.92	1935.8
	M-10	1.304	13.04	1139.8	S-20 Arc	0.135	1.43	445.8
	M-10 Arc	0.080	0.85	267.5	ZA Arc	0.116	1.73	1853.8
	Rellenos	8.410	83.21	4584.8				
3720.000	S-CEMEN	9.958	99.53	10542.1	G-25	3.099	30.99	2802.0
	S-C Arc	0.173	1.84	626.2	S-20	2.192	21.92	1957.7
	M-10	1.304	13.04	1152.9	S-20 Arc	0.119	1.27	447.0
	M-10 Arc	0.071	0.76	268.3	ZA Arc	0.046	0.81	1854.6
	Rellenos	8.607	85.08	4669.9				

TUNEL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
3730.000	S-CEMEN	0.000	59.73	10601.8	G-25	0.000	18.60	2820.6
	S-C Arc	0.000	1.00	627.2	S-20	0.000	13.15	1970.9
	M-10	0.000	7.82	1160.7	S-20 Arc	0.000	0.69	447.7
	M-10 Arc	0.000	0.41	268.7	ZA Arc	0.000	0.18	1854.8
	HM Vibrado	0.040	0.16	0.2	Rellenos	0.241	52.93	4722.9
3740.000	HM Vibrado	0.040	0.40	0.6	Rellenos	0.253	2.47	4725.3
3750.000	HM Vibrado	0.040	0.40	1.0	Rellenos	0.260	2.54	4727.9
3760.000	HM Vibrado	0.040	0.40	1.4	HF 4.5	0.003	0.01	0.0
	Rellenos	0.269	2.65	4730.5				
3770.000	HM Vibrado	0.040	0.40	1.8	HF 4.5	0.003	0.03	0.0
	Rellenos	0.283	2.76	4733.3				
3780.000	HM Vibrado	0.040	0.40	2.2	HF 4.5	0.003	0.03	0.1
	Rellenos	0.296	2.90	4736.2				
3790.000	HM Vibrado	0.040	0.40	2.6	HF 4.5	0.003	0.03	0.1
	Rellenos	0.311	3.03	4739.2				
3800.000	HM Vibrado	0.040	0.40	2.9	HF 4.5	0.003	0.03	0.1
	Rellenos	0.325	3.18	4742.4				
3810.000	HM Vibrado	0.040	0.40	3.3	HF 4.5	0.000	0.02	0.1
	Rellenos	0.343	3.34	4745.7				
3820.000	HM Vibrado	0.040	0.40	3.7	Rellenos	0.358	3.51	4749.2
3830.000	HM Vibrado	0.040	0.40	4.1	Rellenos	0.375	3.66	4752.9
3840.000	HM Vibrado	0.040	0.40	4.5	Rellenos	0.391	3.83	4756.7
3850.000	HM Vibrado	0.040	0.40	4.9	Rellenos	0.408	3.99	4760.7
3860.000	HM Vibrado	0.040	0.40	5.3	Rellenos	0.425	4.17	4764.9
3870.000	HM Vibrado	0.040	0.40	5.7	Rellenos	0.443	4.34	4769.2
3880.000	HM Vibrado	0.040	0.40	6.1	Rellenos	0.462	4.52	4773.7
3890.000	HM Vibrado	0.041	0.40	6.5	Rellenos	0.479	4.70	4778.4
3900.000	HM Vibrado	0.040	0.40	6.9	Rellenos	0.499	4.89	4783.3
3910.000	HM Vibrado	0.040	0.40	7.3	Rellenos	0.518	5.08	4788.4
3920.000	HM Vibrado	0.040	0.40	7.7	Rellenos	0.538	5.28	4793.7
3930.000	HM Vibrado	0.040	0.40	8.1	Rellenos	0.557	5.48	4799.2
3940.000	HM Vibrado	0.040	0.40	8.5	Rellenos	0.578	5.68	4804.9
3950.000	HM Vibrado	0.037	0.38	8.9	Rellenos	0.542	5.63	4810.5
3960.000	HM Vibrado	0.033	0.35	9.3	Rellenos	0.495	5.19	4815.7
3970.000	HM Vibrado	0.028	0.31	9.6	Rellenos	0.443	4.69	4820.4
3980.000	HM Vibrado	0.024	0.26	9.9	Rellenos	0.387	4.15	4824.5
3990.000	HM Vibrado	0.020	0.22	10.1	Rellenos	0.327	3.57	4828.1
4000.000	HM Vibrado	0.016	0.18	10.3	Rellenos	0.264	2.95	4831.0

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4010.000	HM Vibrado	0.011	0.14	10.4	Rellenos	0.197	2.31	4833.3
4020.000	HM Vibrado	0.007	0.09	10.5	Rellenos	0.127	1.62	4835.0
4030.000	HM Vibrado	0.003	0.05	10.5	Rellenos	0.055	0.91	4835.9
4040.000	HM Vibrado	0.001	0.01	10.6	Rellenos	0.040	0.26	4836.1
4050.000	HM Vibrado	0.006	0.03	10.6	Rellenos	0.191	1.16	4837.3
4060.000	HM Vibrado	0.010	0.08	10.7	Rellenos	0.343	2.67	4840.0
4070.000	HM Vibrado	0.014	0.12	10.8	Rellenos	0.491	4.17	4844.1
4080.000	HM Vibrado	0.018	0.16	10.9	Rellenos	0.641	5.66	4849.8
4090.000	HM Vibrado	0.022	0.20	11.1	Rellenos	0.789	7.15	4857.0
4100.000	HM Vibrado	0.027	0.25	11.4	Rellenos	0.935	8.62	4865.6
4110.000	HM Vibrado	0.031	0.29	11.7	Rellenos	1.084	10.09	4875.7
4120.000	HM Vibrado	0.035	0.33	12.0	Rellenos	1.231	11.57	4887.2
4130.000	HM Vibrado	0.039	0.37	12.4	Rellenos	1.380	13.06	4900.3
4140.000	HM Vibrado	0.040	0.40	12.8	Rellenos	1.433	14.24	4914.5
4150.000	HM Vibrado	0.040	0.40	13.2	Rellenos	1.434	14.34	4928.9
4160.000	HM Vibrado	0.041	0.41	13.6	Rellenos	1.434	14.34	4943.2
4170.000	HM Vibrado	0.040	0.41	14.0	Rellenos	1.434	14.34	4957.6
4180.000	HM Vibrado	0.041	0.41	14.4	Rellenos	1.433	14.34	4971.9
4190.000	HM Vibrado	0.040	0.41	14.8	Rellenos	1.435	14.34	4986.2
4200.000	HM Vibrado	0.040	0.40	15.2	Rellenos	1.434	14.34	5000.6
4210.000	HM Vibrado	0.040	0.40	15.6	Rellenos	1.434	14.34	5014.9
4220.000	HM Vibrado	0.040	0.40	16.0	Rellenos	1.433	14.34	5029.3
4230.000	HM Vibrado	0.040	0.40	16.4	Rellenos	1.434	14.34	5043.6
4240.000	HM Vibrado	0.040	0.40	16.8	Rellenos	1.434	14.34	5057.9
4250.000	HM Vibrado	0.040	0.40	17.2	Rellenos	1.434	14.34	5072.3
4260.000	HM Vibrado	0.040	0.40	17.6	Rellenos	1.434	14.34	5086.6
4270.000	HM Vibrado	0.040	0.40	18.0	Rellenos	1.434	14.34	5100.9
4280.000	HM Vibrado	0.041	0.41	18.4	Rellenos	1.433	14.34	5115.3
4290.000	HM Vibrado	0.040	0.41	18.9	Rellenos	1.434	14.34	5129.6
4300.000	HM Vibrado	0.041	0.41	19.3	Rellenos	1.433	14.34	5144.0
4310.000	HM Vibrado	0.040	0.41	19.7	Rellenos	1.434	14.34	5158.3
4320.000	HM Vibrado	0.040	0.40	20.1	Rellenos	1.433	14.34	5172.6
4330.000	HM Vibrado	0.040	0.40	20.5	Rellenos	1.434	14.34	5187.0
4340.000	HM Vibrado	0.040	0.40	20.9	Rellenos	1.433	14.34	5201.3
4350.000	HM Vibrado	0.040	0.40	21.3	Rellenos	1.434	14.34	5215.6
4360.000	HM Vibrado	0.040	0.40	21.7	Rellenos	1.433	14.34	5230.0
4370.000	HM Vibrado	0.040	0.40	22.1	Rellenos	1.434	14.34	5244.3
4380.000	HM Vibrado	0.040	0.40	22.5	Rellenos	1.433	14.34	5258.6

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4390.000	HM Vibrado	0.040	0.40	22.9	Rellenos	1.434	14.34	5273.0
4400.000	HM Vibrado	0.040	0.40	23.3	Rellenos	1.433	14.34	5287.3
4410.000	HM Vibrado	0.040	0.40	23.7	Rellenos	1.435	14.34	5301.7
4420.000	HM Vibrado	0.041	0.41	24.1	Rellenos	1.433	14.34	5316.0
4430.000	HM Vibrado	0.040	0.41	24.5	Rellenos	1.435	14.34	5330.3
4440.000	HM Vibrado	0.040	0.40	24.9	Rellenos	1.433	14.34	5344.7
4450.000	HM Vibrado	0.040	0.40	25.3	Rellenos	1.433	14.33	5359.0
4460.000	HM Vibrado	0.041	0.41	25.7	Rellenos	1.431	14.32	5373.3
4470.000	HM Vibrado	0.040	0.41	26.1	Rellenos	1.427	14.29	5387.6
4480.000	HM Vibrado	0.040	0.40	26.5	Rellenos	1.420	14.24	5401.9
4490.000	HM Vibrado	0.041	0.41	27.0	Rellenos	1.405	14.13	5416.0
4500.000	HM Vibrado	0.040	0.40	27.4	HF 4.5	0.003	0.02	0.4
	Rellenos	1.384	13.94	5429.9				
4510.000	HM Vibrado	0.040	0.40	27.8	HF 4.5	0.003	0.03	0.4
	Rellenos	1.357	13.70	5443.6				
4520.000	HM Vibrado	0.040	0.40	28.2	HF 4.5	0.003	0.03	0.5
	Rellenos	1.323	13.40	5457.0				
4530.000	HM Vibrado	0.040	0.40	28.5	HF 4.5	0.003	0.03	0.5
	Rellenos	1.283	13.03	5470.1				
4540.000	HM Vibrado	0.040	0.40	28.9	HF 4.5	0.003	0.03	0.5
	Rellenos	1.236	12.59	5482.6				
4550.000	HM Vibrado	0.040	0.40	29.3	HF 4.5	0.000	0.01	0.5
	Rellenos	1.182	12.09	5494.7				
4560.000	HM Vibrado	0.040	0.40	29.7	Rellenos	1.125	11.54	5506.3
4570.000	HM Vibrado	0.037	0.39	30.1	Rellenos	0.971	10.57	5516.8
4580.000	HM Vibrado	0.033	0.35	30.5	Rellenos	0.802	8.86	5525.7

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4590.000	S-CEMEN	9.863	37.90	10639.7	G-25	3.085	11.27	2831.8
	S-C Arc	0.126	0.75	627.9	S-20	2.184	7.95	1978.8
	M-10	1.301	4.71	1165.4	S-20 Arc	0.068	0.43	448.2
	M-10 Arc	0.031	0.22	268.9	ZA Arc	0.174	0.75	1855.6
	HM Vibrado	0.000	0.16	30.6	Rellenos	5.393	31.53	5557.2
4600.000	S-CEMEN	9.793	98.28	10738.0	G-25	3.086	30.85	2862.7
	S-C Arc	0.157	1.42	629.3	S-20	2.184	21.84	2000.7
	M-10	1.298	12.99	1178.4	S-20 Arc	0.092	0.80	449.0
	M-10 Arc	0.043	0.37	269.3	ZA Arc	0.341	2.58	1858.1
	Rellenos	4.813	51.03	5608.3				
4610.000	S-CEMEN	9.711	97.53	10835.5	G-25	3.085	30.85	2893.5
	S-C Arc	0.161	1.59	630.9	S-20	2.185	21.84	2022.5
	M-10	1.298	12.98	1191.4	S-20 Arc	0.111	1.01	450.0
	M-10 Arc	0.056	0.50	269.8	ZA Arc	0.518	4.30	1862.4
	Rellenos	4.302	45.58	5653.8				
4620.000	S-CEMEN	9.659	96.85	10932.4	G-25	3.084	30.84	2924.4
	S-C Arc	0.161	1.61	632.5	S-20	2.185	21.85	2044.3
	M-10	1.300	12.99	1204.4	S-20 Arc	0.115	1.13	451.1
	M-10 Arc	0.067	0.62	270.4	ZA Arc	0.683	6.01	1868.4
	Rellenos	3.861	40.82	5694.7				
4630.000	S-CEMEN	9.632	96.40	11028.8	G-25	3.085	30.84	2955.2
	S-C Arc	0.161	1.61	634.1	S-20	2.184	21.84	2066.2
	M-10	1.300	13.00	1217.4	S-20 Arc	0.115	1.15	452.3
	M-10 Arc	0.069	0.69	271.1	ZA Arc	0.731	7.26	1875.7
	Rellenos	3.450	36.63	5731.3				
4640.000	S-CEMEN	9.629	96.30	11125.1	G-25	3.085	30.85	2986.1
	S-C Arc	0.161	1.61	635.8	S-20	2.184	21.83	2088.0
	M-10	1.301	13.00	1230.4	S-20 Arc	0.115	1.15	453.4
	M-10 Arc	0.069	0.69	271.8	ZA Arc	0.324	4.08	1879.8
	Rellenos	3.045	32.42	5763.7				
4650.000	S-CEMEN	7.429	76.50	11201.6	G-25	2.315	23.92	3010.0
	S-C Arc	0.161	1.61	637.4	S-20	1.633	16.88	2104.9
	M-10	0.970	10.04	1240.4	S-20 Arc	0.115	1.15	454.5
	M-10 Arc	0.069	0.69	272.5	ZA Arc	0.309	3.16	1882.9
	Rellenos	2.699	28.72	5792.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4660.000	S-CEMEN	7.745	76.03	11277.6	G-25	2.344	23.33	3033.3
	S-C Arc	0.219	1.96	639.3	S-20	1.653	16.45	2121.3
	M-10	0.980	9.76	1250.2	S-20 Arc	0.158	1.41	456.0
	M-10 Arc	0.086	0.80	273.3	ZA Arc	0.293	3.01	1886.0
	Rellenos	2.391	25.45	5817.9				
4670.000	S-CEMEN	7.815	77.74	11355.3	G-25	2.370	23.55	3056.9
	S-C Arc	0.219	2.19	641.5	S-20	1.672	16.61	2138.0
	M-10	0.992	9.84	1260.0	S-20 Arc	0.158	1.58	457.5
	M-10 Arc	0.086	0.86	274.1	ZA Arc	0.278	2.86	1888.8
	Rellenos	2.122	22.56	5840.4				
4680.000	S-CEMEN	7.957	78.79	11434.1	G-25	2.421	23.93	3080.8
	S-C Arc	0.219	2.20	643.7	S-20	1.707	16.87	2154.8
	M-10	1.013	10.01	1270.0	S-20 Arc	0.158	1.58	459.1
	M-10 Arc	0.086	0.86	275.0	ZA Arc	0.262	2.70	1891.5
	Rellenos	1.891	20.06	5860.5				
4690.000	S-CEMEN	8.196	80.67	11514.8	G-25	2.504	24.59	3105.4
	S-C Arc	0.220	2.20	645.9	S-20	1.768	17.34	2172.2
	M-10	1.048	10.29	1280.3	S-20 Arc	0.158	1.58	460.7
	M-10 Arc	0.087	0.86	275.9	ZA Arc	0.259	2.59	1894.1
	Rellenos	1.692	17.92	5878.4				
4700.000	S-CEMEN	8.563	83.69	11598.5	G-25	2.634	25.66	3131.1
	S-C Arc	0.220	2.20	648.1	S-20	1.859	18.10	2190.3
	M-10	1.104	10.75	1291.1	S-20 Arc	0.157	1.58	462.3
	M-10 Arc	0.087	0.86	276.7	ZA Arc	0.259	2.59	1896.7
	Rellenos	1.526	16.09	5894.5				
4700.000	S-CEMEN	8.563	0.00	11598.5	G-25	2.634	0.00	3131.1
	S-C Arc	0.220	0.00	648.1	S-20	1.859	0.00	2190.3
	M-10	1.104	0.00	1291.1	S-20 Arc	0.157	0.00	462.3
	M-10 Arc	0.087	0.00	276.7	ZA Arc	0.259	0.00	1896.7
	Rellenos	1.526	0.00	5894.5				
4710.000	S-CEMEN	5.500	61.49	11660.0	G-25	1.478	17.24	3148.3
	S-C Arc	0.322	2.99	651.1	S-20	1.033	12.10	2202.4
	M-10	0.609	7.15	1298.2	S-20 Arc	0.230	2.14	464.4
	M-10 Arc	0.138	1.26	278.0	ZA Arc	0.476	3.43	1900.1
	Rellenos	1.540	15.39	5909.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4720.000	S-CEMEN	5.561	55.29	11715.2	G-25	1.500	14.88	3163.2
	S-C Arc	0.322	3.22	654.3	S-20	1.049	10.41	2212.8
	M-10	0.619	6.14	1304.4	S-20 Arc	0.230	2.30	466.7
	M-10 Arc	0.138	1.38	279.4	ZA Arc	0.517	5.01	1905.1
	Rellenos	1.435	14.88	5924.8				
4730.000	S-CEMEN	5.643	56.00	11771.2	G-25	1.529	15.14	3178.3
	S-C Arc	0.322	3.22	657.5	S-20	1.070	10.59	2223.4
	M-10	0.631	6.25	1310.6	S-20 Arc	0.230	2.30	469.0
	M-10 Arc	0.138	1.38	280.7	ZA Arc	0.517	5.17	1910.3
	Rellenos	1.355	13.95	5938.7				
4740.000	S-CEMEN	5.740	56.90	11828.1	G-25	1.564	15.46	3193.8
	S-C Arc	0.322	3.22	660.8	S-20	1.095	10.82	2234.2
	M-10	0.646	6.39	1317.0	S-20 Arc	0.230	2.30	471.3
	M-10 Arc	0.138	1.38	282.1	ZA Arc	0.517	5.17	1915.5
	Rellenos	1.296	13.25	5952.0				
4750.000	S-CEMEN	5.841	57.91	11886.0	G-25	1.600	15.82	3209.6
	S-C Arc	0.322	3.22	664.0	S-20	1.121	11.08	2245.3
	M-10	0.662	6.54	1323.5	S-20 Arc	0.230	2.30	473.6
	M-10 Arc	0.138	1.38	283.5	ZA Arc	0.517	5.17	1920.7
	Rellenos	1.256	12.76	5964.7				
4760.000	S-CEMEN	5.944	58.92	11945.0	G-25	1.636	16.18	3225.8
	S-C Arc	0.322	3.22	667.2	S-20	1.146	11.34	2256.6
	M-10	0.677	6.69	1330.2	S-20 Arc	0.230	2.30	475.9
	M-10 Arc	0.138	1.38	284.9	ZA Arc	0.517	5.17	1925.8
	Rellenos	1.230	12.43	5977.2				
4770.000	S-CEMEN	6.050	59.96	12004.9	G-25	1.673	16.54	3242.3
	S-C Arc	0.322	3.22	670.4	S-20	1.173	11.59	2268.2
	M-10	0.692	6.85	1337.1	S-20 Arc	0.230	2.30	478.2
	M-10 Arc	0.138	1.38	286.3	ZA Arc	0.517	5.17	1931.0
	Rellenos	1.215	12.23	5989.4				
4780.000	S-CEMEN	6.177	61.10	12066.0	G-25	1.717	16.94	3259.3
	S-C Arc	0.322	3.22	673.6	S-20	1.205	11.88	2280.1
	M-10	0.712	7.02	1344.1	S-20 Arc	0.230	2.30	480.5
	M-10 Arc	0.138	1.38	287.6	ZA Arc	0.517	5.17	1936.2
	Rellenos	1.210	12.12	6001.5				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4790.000	S-CEMEN	4.722	60.31	12126.3	G-25	1.208	16.71	3276.0
	S-C Arc	0.322	3.18	676.8	S-20	0.841	11.72	2291.8
	M-10	0.494	6.92	1351.0	S-20 Arc	0.230	2.27	482.8
	M-10 Arc	0.138	1.36	289.0	ZA Arc	0.290	4.84	1941.0
	Rellenos	1.120	11.94	6013.5				
4800.000	S-CEMEN	4.722	47.22	12173.6	G-25	1.208	12.08	3288.1
	S-C Arc	0.322	3.22	680.0	S-20	0.841	8.41	2300.2
	M-10	0.494	4.94	1356.0	S-20 Arc	0.230	2.30	485.1
	M-10 Arc	0.138	1.38	290.4	ZA Arc	0.414	3.49	1944.5
	Rellenos	1.191	11.54	6025.0				
4810.000	S-CEMEN	4.722	47.22	12220.8	G-25	1.208	12.08	3300.1
	S-C Arc	0.322	3.22	683.3	S-20	0.841	8.41	2308.6
	M-10	0.494	4.94	1360.9	S-20 Arc	0.230	2.30	487.4
	M-10 Arc	0.138	1.38	291.8	ZA Arc	0.516	4.77	1949.3
	Rellenos	1.208	12.01	6037.0				
4820.000	S-CEMEN	4.722	47.22	12268.0	G-25	1.208	12.08	3312.2
	S-C Arc	0.322	3.22	686.5	S-20	0.841	8.41	2317.0
	M-10	0.494	4.94	1365.8	S-20 Arc	0.230	2.30	489.7
	M-10 Arc	0.138	1.38	293.1	ZA Arc	1.137	8.41	1957.7
	Rellenos	1.299	12.56	6049.6				
4830.000	S-CEMEN	4.722	47.22	12315.2	G-25	1.208	12.08	3324.3
	S-C Arc	0.322	3.22	689.7	S-20	0.841	8.41	2325.4
	M-10	0.494	4.94	1370.8	S-20 Arc	0.230	2.30	492.0
	M-10 Arc	0.138	1.38	294.5	ZA Arc	1.137	11.37	1969.1
	Rellenos	1.300	13.00	6062.6				
4839.946	S-CEMEN	4.722	46.97	12362.2	G-25	1.208	12.02	3336.3
	S-C Arc	0.322	3.20	692.9	S-20	0.841	8.37	2333.8
	M-10	0.494	4.91	1375.7	S-20 Arc	0.230	2.29	494.3
	M-10 Arc	0.138	1.37	295.9	ZA Arc	1.137	11.31	1980.4
	Rellenos	1.300	12.92	6075.5				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	12362.2
G-25	3336.3
S-C Arc	692.9
S-20	2333.8
M-10	1375.7
S-20 Arc	494.3
M-10 Arc	295.9
ZA Arc	1980.4
HM Vibrado	30.6
HF 4.5	0.5
Rellenos	6075.5

1.1.2.2. ENLACE DE CASILLA

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
104.834	S-CEMEN	2.086	0.00	0.0	G-25	0.348	0.00	0.0
	S-C Arc	0.175	0.00	0.0	S-20	0.233	0.00	0.0
	M-10	0.135	0.00	0.0	S-20 Arc	0.125	0.00	0.0
	M-10 Arc	0.075	0.00	0.0	ZA Arc	0.346	0.00	0.0
	Rellenos	0.197	0.00	0.0				
110.000	S-CEMEN	1.931	10.37	10.4	G-25	0.354	1.81	1.8
	S-C Arc	0.175	0.90	0.9	S-20	0.237	1.21	1.2
	M-10	0.138	0.70	0.7	S-20 Arc	0.125	0.65	0.6
	M-10 Arc	0.075	0.39	0.4	ZA Arc	0.344	1.78	1.8
	Rellenos	0.227	1.09	1.1				
114.707	S-CEMEN	1.764	8.69	19.1	G-25	0.359	1.68	3.5
	S-C Arc	0.175	0.82	1.7	S-20	0.241	1.12	2.3
	M-10	0.140	0.65	1.4	S-20 Arc	0.125	0.59	1.2
	M-10 Arc	0.075	0.35	0.7	ZA Arc	0.378	1.70	3.5
	Rellenos	0.255	1.13	2.2				
120.000	S-CEMEN	1.730	9.25	28.3	G-25	0.366	1.92	5.4
	S-C Arc	0.175	0.93	2.7	S-20	0.245	1.29	3.6
	M-10	0.143	0.75	2.1	S-20 Arc	0.125	0.66	1.9
	M-10 Arc	0.075	0.40	1.1	ZA Arc	0.470	2.24	5.7
	Rellenos	0.259	1.36	3.6				
123.069	S-CEMEN	1.740	5.32	33.6	G-25	0.369	1.13	6.5
	S-C Arc	0.175	0.54	3.2	S-20	0.248	0.76	4.4
	M-10	0.144	0.44	2.5	S-20 Arc	0.125	0.38	2.3
	M-10 Arc	0.075	0.23	1.4	ZA Arc	0.512	1.51	7.2
	Rellenos	0.255	0.79	4.4				
128.868	S-CEMEN	1.759	10.15	43.8	G-25	0.376	2.16	8.7
	S-C Arc	0.175	1.01	4.2	S-20	0.252	1.45	5.8
	M-10	0.147	0.84	3.4	S-20 Arc	0.125	0.73	3.0
	M-10 Arc	0.075	0.44	1.8	ZA Arc	0.510	2.96	10.2
	Rellenos	0.248	1.46	5.8				
130.000	S-CEMEN	1.763	1.99	45.8	G-25	0.377	0.43	9.1
	S-C Arc	0.175	0.20	4.4	S-20	0.253	0.29	6.1
	M-10	0.148	0.17	3.6	S-20 Arc	0.125	0.14	3.1
	M-10 Arc	0.075	0.08	1.9	ZA Arc	0.509	0.58	10.8
	Rellenos	0.247	0.28	6.1				

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
131.256	S-CEMEN	1.767	2.22	48.0	G-25	0.379	0.47	9.6
	S-C Arc	0.175	0.22	4.6	S-20	0.255	0.32	6.4
	M-10	0.148	0.19	3.7	S-20 Arc	0.125	0.16	3.3
	M-10 Arc	0.075	0.09	2.0	ZA Arc	0.507	0.64	11.4
	Rellenos	0.246	0.31	6.4				
131.732	S-CEMEN	1.769	0.84	48.8	G-25	0.379	0.18	9.8
	S-C Arc	0.175	0.08	4.7	S-20	0.255	0.12	6.6
	M-10	0.148	0.07	3.8	S-20 Arc	0.125	0.06	3.4
	M-10 Arc	0.075	0.04	2.0	ZA Arc	0.507	0.24	11.7
	Rellenos	0.245	0.12	6.5				
131.814	S-CEMEN	1.769	0.15	49.0	G-25	0.379	0.03	9.8
	S-C Arc	0.175	0.01	4.7	S-20	0.255	0.02	6.6
	M-10	0.148	0.01	3.8	S-20 Arc	0.125	0.01	3.4
	M-10 Arc	0.075	0.01	2.0	ZA Arc	0.507	0.04	11.7
	Rellenos	0.245	0.02	6.6				
134.185	S-CEMEN	1.777	4.20	53.2	G-25	0.382	0.90	10.7
	S-C Arc	0.175	0.41	5.1	S-20	0.257	0.61	7.2
	M-10	0.150	0.35	4.2	S-20 Arc	0.125	0.30	3.7
	M-10 Arc	0.075	0.18	2.2	ZA Arc	0.507	1.20	12.9
	Rellenos	0.245	0.58	7.1				
134.834	S-CEMEN	1.779	1.15	54.3	G-25	0.383	0.25	11.0
	S-C Arc	0.175	0.11	5.2	S-20	0.258	0.17	7.4
	M-10	0.150	0.10	4.3	S-20 Arc	0.125	0.08	3.7
	M-10 Arc	0.075	0.05	2.2	ZA Arc	0.507	0.33	13.2
	Rellenos	0.245	0.16	7.3				
135.610	S-CEMEN	1.779	1.38	55.7	G-25	0.383	0.30	11.3
	S-C Arc	0.175	0.14	5.4	S-20	0.257	0.20	7.5
	M-10	0.150	0.12	4.4	S-20 Arc	0.125	0.10	3.8
	M-10 Arc	0.075	0.06	2.3	ZA Arc	0.507	0.39	13.6
	Rellenos	0.245	0.19	7.5				
140.000	S-CEMEN	1.779	7.81	63.5	G-25	0.383	1.68	12.9
	S-C Arc	0.175	0.77	6.2	S-20	0.258	1.13	8.7
	M-10	0.150	0.66	5.0	S-20 Arc	0.125	0.55	4.4
	M-10 Arc	0.075	0.33	2.6	ZA Arc	0.575	2.37	16.0
	Rellenos	0.252	1.09	8.6				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
140.544	S-CEMEN	1.779	0.97	64.5	G-25	0.383	0.21	13.2
	S-C Arc	0.175	0.10	6.2	S-20	0.257	0.14	8.8
	M-10	0.150	0.08	5.1	S-20 Arc	0.125	0.07	4.5
	M-10 Arc	0.075	0.04	2.7	ZA Arc	0.575	0.31	16.3
	Rellenos	0.252	0.14	8.7				
148.145	S-CEMEN	1.779	13.52	78.0	G-25	0.383	2.91	16.1
	S-C Arc	0.175	1.33	7.6	S-20	0.258	1.96	10.8
	M-10	0.150	1.14	6.3	S-20 Arc	0.125	0.95	5.4
	M-10 Arc	0.075	0.57	3.2	ZA Arc	0.575	4.37	20.7
	Rellenos	0.252	1.92	10.6				
150.000	S-CEMEN	1.779	3.30	81.3	G-25	0.383	0.71	16.8
	S-C Arc	0.175	0.32	7.9	S-20	0.258	0.48	11.3
	M-10	0.150	0.28	6.5	S-20 Arc	0.125	0.23	5.6
	M-10 Arc	0.075	0.14	3.4	ZA Arc	0.575	1.07	21.7
	Rellenos	0.252	0.47	11.1				
156.260	S-CEMEN	1.779	11.14	92.5	G-25	0.383	2.40	19.2
	S-C Arc	0.175	1.10	9.0	S-20	0.258	1.61	12.9
	M-10	0.150	0.94	7.5	S-20 Arc	0.125	0.78	6.4
	M-10 Arc	0.075	0.47	3.9	ZA Arc	0.575	3.60	25.3
	Rellenos	0.252	1.58	12.7				
158.020	S-CEMEN	1.779	3.13	95.6	G-25	0.383	0.67	19.8
	S-C Arc	0.175	0.31	9.3	S-20	0.257	0.45	13.3
	M-10	0.150	0.26	7.8	S-20 Arc	0.125	0.22	6.6
	M-10 Arc	0.075	0.13	4.0	ZA Arc	0.575	1.01	26.4
	Rellenos	0.252	0.44	13.1				
160.000	S-CEMEN	1.779	3.52	99.1	G-25	0.383	0.76	20.6
	S-C Arc	0.175	0.35	9.7	S-20	0.257	0.51	13.8
	M-10	0.150	0.30	8.0	S-20 Arc	0.125	0.25	6.9
	M-10 Arc	0.075	0.15	4.1	ZA Arc	0.575	1.14	27.5
	Rellenos	0.252	0.50	13.6				
161.814	S-CEMEN	1.779	3.23	102.3	G-25	0.383	0.69	21.3
	S-C Arc	0.175	0.32	10.0	S-20	0.257	0.47	14.3
	M-10	0.150	0.27	8.3	S-20 Arc	0.125	0.23	7.1
	M-10 Arc	0.075	0.14	4.3	ZA Arc	0.575	1.04	28.5
	Rellenos	0.252	0.46	14.1				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
164.157	S-CEMEN	1.779	4.17	106.5	G-25	0.383	0.90	22.2
	S-C Arc	0.175	0.41	10.4	S-20	0.258	0.60	14.9
	M-10	0.150	0.35	8.7	S-20 Arc	0.125	0.29	7.4
	M-10 Arc	0.075	0.18	4.4	ZA Arc	0.577	1.35	29.9
	Rellenos	0.254	0.59	14.7				
164.167	S-CEMEN	1.779	0.02	106.5	G-25	0.383	0.00	22.2
	S-C Arc	0.175	0.00	10.4	S-20	0.257	0.00	14.9
	M-10	0.150	0.00	8.7	S-20 Arc	0.125	0.00	7.4
	M-10 Arc	0.075	0.00	4.4	ZA Arc	0.577	0.01	29.9
	Rellenos	0.254	0.00	14.7				
170.000	S-CEMEN	1.779	10.38	116.9	G-25	0.383	2.23	24.4
	S-C Arc	0.175	1.02	11.4	S-20	0.258	1.50	16.4
	M-10	0.150	0.88	9.5	S-20 Arc	0.125	0.73	8.1
	M-10 Arc	0.075	0.44	4.9	ZA Arc	0.584	3.39	33.3
	Rellenos	0.259	1.50	16.2				
178.086	S-CEMEN	1.779	14.39	131.3	G-25	0.383	3.10	27.5
	S-C Arc	0.175	1.42	12.8	S-20	0.258	2.08	18.5
	M-10	0.150	1.21	10.8	S-20 Arc	0.125	1.01	9.2
	M-10 Arc	0.075	0.61	5.5	ZA Arc	0.593	4.76	38.0
	Rellenos	0.266	2.12	18.3				
178.096	S-CEMEN	1.779	0.02	131.3	G-25	0.383	0.00	27.5
	S-C Arc	0.175	0.00	12.8	S-20	0.257	0.00	18.5
	M-10	0.150	0.00	10.8	S-20 Arc	0.125	0.00	9.2
	M-10 Arc	0.075	0.00	5.5	ZA Arc	0.593	0.01	38.0
	Rellenos	0.266	0.00	18.3				
180.000	S-CEMEN	1.779	3.39	134.7	G-25	0.383	0.73	28.3
	S-C Arc	0.175	0.33	13.2	S-20	0.258	0.49	19.0
	M-10	0.150	0.29	11.0	S-20 Arc	0.125	0.24	9.4
	M-10 Arc	0.075	0.14	5.6	ZA Arc	0.595	1.13	39.2
	Rellenos	0.268	0.51	18.8				
186.965	S-CEMEN	1.855	12.66	147.3	G-25	0.383	2.67	30.9
	S-C Arc	0.175	1.22	14.4	S-20	0.257	1.79	20.8
	M-10	0.150	1.05	12.1	S-20 Arc	0.125	0.87	10.3
	M-10 Arc	0.075	0.52	6.2	ZA Arc	0.652	4.34	43.5
	Rellenos	0.274	1.88	20.7				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
190.000	S-CEMEN	1.948	5.77	153.1	G-25	0.383	1.16	32.1
	S-C Arc	0.175	0.53	14.9	S-20	0.258	0.78	21.6
	M-10	0.150	0.46	12.6	S-20 Arc	0.125	0.38	10.6
	M-10 Arc	0.075	0.23	6.4	ZA Arc	0.682	2.02	45.5
	Rellenos	0.274	0.83	21.5				
191.564	S-CEMEN	1.997	3.08	156.2	G-25	0.383	0.60	32.7
	S-C Arc	0.175	0.27	15.2	S-20	0.258	0.40	22.0
	M-10	0.150	0.23	12.8	S-20 Arc	0.125	0.20	10.8
	M-10 Arc	0.075	0.12	6.5	ZA Arc	0.698	1.08	46.6
	Rellenos	0.274	0.43	22.0				
195.738	S-CEMEN	2.135	8.62	164.8	G-25	0.383	1.60	34.3
	S-C Arc	0.175	0.73	15.9	S-20	0.258	1.08	23.0
	M-10	0.150	0.63	13.4	S-20 Arc	0.125	0.52	11.4
	M-10 Arc	0.075	0.31	6.8	ZA Arc	0.761	3.04	49.7
	Rellenos	0.272	1.14	23.1				
198.795	S-CEMEN	2.227	6.67	171.5	G-25	0.383	1.17	35.5
	S-C Arc	0.175	0.53	16.4	S-20	0.258	0.79	23.8
	M-10	0.150	0.46	13.9	S-20 Arc	0.125	0.38	11.7
	M-10 Arc	0.075	0.23	7.0	ZA Arc	0.811	2.40	52.1
	Rellenos	0.272	0.83	23.9				
200.000	S-CEMEN	2.259	2.70	174.2	G-25	0.383	0.46	35.9
	S-C Arc	0.175	0.21	16.7	S-20	0.257	0.31	24.1
	M-10	0.150	0.18	14.1	S-20 Arc	0.125	0.15	11.9
	M-10 Arc	0.075	0.09	7.1	ZA Arc	0.829	0.99	53.1
	Rellenos	0.272	0.33	24.3				
204.474	S-CEMEN	2.358	10.33	184.5	G-25	0.383	1.71	37.6
	S-C Arc	0.175	0.78	17.4	S-20	0.258	1.15	25.3
	M-10	0.150	0.67	14.7	S-20 Arc	0.125	0.56	12.5
	M-10 Arc	0.075	0.34	7.5	ZA Arc	0.884	3.83	56.9
	Rellenos	0.271	1.21	25.5				
210.000	S-CEMEN	2.437	13.25	197.8	G-25	0.383	2.12	39.7
	S-C Arc	0.175	0.97	18.4	S-20	0.257	1.42	26.7
	M-10	0.150	0.83	15.5	S-20 Arc	0.125	0.69	13.1
	M-10 Arc	0.075	0.41	7.9	ZA Arc	0.927	5.00	61.9
	Rellenos	0.270	1.50	27.0				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
213.643	S-CEMEN	2.462	8.92	206.7	G-25	0.383	1.40	41.1
	S-C Arc	0.175	0.64	19.0	S-20	0.258	0.94	27.6
	M-10	0.150	0.55	16.1	S-20 Arc	0.125	0.46	13.6
	M-10 Arc	0.075	0.27	8.2	ZA Arc	0.941	3.40	65.3
	Rellenos	0.270	0.98	28.0				
215.876	S-CEMEN	2.466	5.50	212.2	G-25	0.383	0.85	42.0
	S-C Arc	0.175	0.39	19.4	S-20	0.258	0.58	28.2
	M-10	0.150	0.33	16.4	S-20 Arc	0.125	0.28	13.9
	M-10 Arc	0.075	0.17	8.3	ZA Arc	0.943	2.10	67.4
	Rellenos	0.270	0.60	28.6				
215.877	S-CEMEN	2.466	0.00	212.2	G-25	0.383	0.00	42.0
	S-C Arc	0.175	0.00	19.4	S-20	0.257	0.00	28.2
	M-10	0.150	0.00	16.4	S-20 Arc	0.125	0.00	13.9
	M-10 Arc	0.075	0.00	8.3	ZA Arc	0.943	0.00	67.4
	Rellenos	0.270	0.00	28.6				
220.000	S-CEMEN	2.442	10.12	222.3	G-25	0.383	1.58	43.6
	S-C Arc	0.175	0.72	20.2	S-20	0.257	1.06	29.3
	M-10	0.150	0.62	17.0	S-20 Arc	0.125	0.52	14.4
	M-10 Arc	0.075	0.31	8.6	ZA Arc	0.930	3.86	71.3
	Rellenos	0.270	1.11	29.7				
226.572	S-CEMEN	2.307	15.60	237.9	G-25	0.383	2.52	46.1
	S-C Arc	0.175	1.15	21.3	S-20	0.257	1.69	31.0
	M-10	0.150	0.99	18.0	S-20 Arc	0.125	0.82	15.2
	M-10 Arc	0.075	0.49	9.1	ZA Arc	0.856	5.87	77.1
	Rellenos	0.271	1.78	31.4				
226.582	S-CEMEN	2.307	0.02	237.9	G-25	0.383	0.00	46.1
	S-C Arc	0.175	0.00	21.3	S-20	0.258	0.00	31.0
	M-10	0.150	0.00	18.0	S-20 Arc	0.125	0.00	15.2
	M-10 Arc	0.075	0.00	9.1	ZA Arc	0.855	0.01	77.1
	Rellenos	0.271	0.00	31.5				
229.860	S-CEMEN	2.196	7.38	245.3	G-25	0.383	1.26	47.4
	S-C Arc	0.175	0.57	21.9	S-20	0.258	0.84	31.8
	M-10	0.150	0.49	18.5	S-20 Arc	0.125	0.41	15.6
	M-10 Arc	0.075	0.25	9.4	ZA Arc	0.795	2.70	79.8
	Rellenos	0.272	0.89	32.3				

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
229.870	S-CEMEN	2.196	0.02	245.3	G-25	0.383	0.00	47.4
	S-C Arc	0.175	0.00	21.9	S-20	0.258	0.00	31.8
	M-10	0.150	0.00	18.5	S-20 Arc	0.125	0.00	15.6
	M-10 Arc	0.075	0.00	9.4	ZA Arc	0.794	0.01	79.8
	Rellenos	0.272	0.00	32.3				
230.000	S-CEMEN	2.191	0.29	245.6	G-25	0.383	0.05	47.4
	S-C Arc	0.175	0.02	21.9	S-20	0.258	0.03	31.9
	M-10	0.150	0.02	18.5	S-20 Arc	0.125	0.02	15.6
	M-10 Arc	0.075	0.01	9.4	ZA Arc	0.792	0.10	80.0
	Rellenos	0.272	0.04	32.4				
235.513	S-CEMEN	1.974	11.48	257.1	G-25	0.387	2.12	49.5
	S-C Arc	0.175	0.97	22.9	S-20	0.260	1.43	33.3
	M-10	0.152	0.83	19.4	S-20 Arc	0.125	0.69	16.3
	M-10 Arc	0.075	0.41	9.8	ZA Arc	0.687	4.08	84.0
	Rellenos	0.274	1.50	33.9				
240.000	S-CEMEN	1.799	8.47	265.6	G-25	0.390	1.74	51.3
	S-C Arc	0.175	0.79	23.7	S-20	0.263	1.17	34.5
	M-10	0.153	0.68	20.1	S-20 Arc	0.125	0.56	16.9
	M-10 Arc	0.075	0.34	10.1	ZA Arc	0.554	2.78	86.8
	Rellenos	0.271	1.22	35.1				
244.592	S-CEMEN	1.808	8.28	273.9	G-25	0.393	1.80	53.1
	S-C Arc	0.175	0.80	24.5	S-20	0.265	1.21	35.7
	M-10	0.154	0.71	20.8	S-20 Arc	0.125	0.57	17.5
	M-10 Arc	0.075	0.34	10.5	ZA Arc	0.550	2.53	89.3
	Rellenos	0.266	1.23	36.3				
250.000	S-CEMEN	1.819	9.81	283.7	G-25	0.397	2.14	55.2
	S-C Arc	0.175	0.95	25.4	S-20	0.267	1.44	37.1
	M-10	0.156	0.84	21.6	S-20 Arc	0.125	0.68	18.1
	M-10 Arc	0.075	0.41	10.9	ZA Arc	0.545	2.96	92.3
	Rellenos	0.260	1.42	37.8				
251.435	S-CEMEN	1.819	2.61	286.3	G-25	0.397	0.57	55.8
	S-C Arc	0.175	0.25	25.7	S-20	0.268	0.38	37.5
	M-10	0.156	0.22	21.8	S-20 Arc	0.125	0.18	18.3
	M-10 Arc	0.075	0.11	11.0	ZA Arc	0.544	0.78	93.1
	Rellenos	0.258	0.37	38.1				

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PROYECTO : VARIANTE DE OURENSE
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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
256.367	S-CEMEN	1.819	8.97	295.3	G-25	0.397	1.96	57.7
	S-C Arc	0.175	0.86	26.5	S-20	0.268	1.32	38.8
	M-10	0.156	0.77	22.6	S-20 Arc	0.125	0.62	18.9
	M-10 Arc	0.075	0.37	11.4	ZA Arc	0.508	2.59	95.7
	Rellenos	0.246	1.24	39.4				
257.543	S-CEMEN	1.819	2.14	297.4	G-25	0.397	0.47	58.2
	S-C Arc	0.175	0.21	26.7	S-20	0.268	0.31	39.1
	M-10	0.156	0.18	22.8	S-20 Arc	0.125	0.15	19.1
	M-10 Arc	0.075	0.09	11.5	ZA Arc	0.463	0.57	96.2
	Rellenos	0.244	0.29	39.7				
257.544	S-CEMEN	1.819	0.00	297.4	G-25	0.397	0.00	58.2
	S-C Arc	0.175	0.00	26.7	S-20	0.268	0.00	39.1
	M-10	0.156	0.00	22.8	S-20 Arc	0.125	0.00	19.1
	M-10 Arc	0.075	0.00	11.5	ZA Arc	0.462	0.00	96.2
	Rellenos	0.244	0.00	39.7				
258.942	S-CEMEN	1.819	2.54	299.9	G-25	0.397	0.55	58.8
	S-C Arc	0.175	0.24	27.0	S-20	0.268	0.37	39.5
	M-10	0.156	0.22	23.0	S-20 Arc	0.125	0.17	19.3
	M-10 Arc	0.075	0.10	11.6	ZA Arc	0.363	0.58	96.8
	Rellenos	0.181	0.30	40.0				
260.000	S-CEMEN	1.819	1.92	301.9	G-25	0.397	0.42	59.2
	S-C Arc	0.175	0.19	27.2	S-20	0.268	0.28	39.8
	M-10	0.156	0.17	23.2	S-20 Arc	0.125	0.13	19.4
	M-10 Arc	0.075	0.08	11.6	ZA Arc	0.364	0.38	97.2
	Rellenos	0.182	0.19	40.2				
260.361	S-CEMEN	1.819	0.66	302.5	G-25	0.397	0.14	59.3
	S-C Arc	0.175	0.06	27.2	S-20	0.268	0.10	39.9
	M-10	0.156	0.06	23.2	S-20 Arc	0.125	0.05	19.4
	M-10 Arc	0.075	0.03	11.7	ZA Arc	0.363	0.13	97.3
	Rellenos	0.181	0.07	40.2				
262.515	S-CEMEN	1.819	3.92	306.4	G-25	0.397	0.86	60.2
	S-C Arc	0.175	0.38	27.6	S-20	0.268	0.58	40.5
	M-10	0.156	0.34	23.6	S-20 Arc	0.125	0.27	19.7
	M-10 Arc	0.075	0.16	11.8	ZA Arc	0.363	0.78	98.1
	Rellenos	0.181	0.39	40.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
264.672	S-CEMEN	1.819	3.92	310.4	G-25	0.397	0.86	61.0
	S-C Arc	0.175	0.38	28.0	S-20	0.268	0.58	41.0
	M-10	0.156	0.34	23.9	S-20 Arc	0.125	0.27	20.0
	M-10 Arc	0.075	0.16	12.0	ZA Arc	0.363	0.78	98.9
	Rellenos	0.181	0.39	41.0				
266.827	S-CEMEN	1.819	3.92	314.3	G-25	0.397	0.86	61.9
	S-C Arc	0.175	0.38	28.3	S-20	0.268	0.58	41.6
	M-10	0.156	0.34	24.2	S-20 Arc	0.125	0.27	20.2
	M-10 Arc	0.075	0.16	12.1	ZA Arc	0.363	0.78	99.7
	Rellenos	0.181	0.39	41.4				
268.982	S-CEMEN	1.819	3.92	318.2	G-25	0.397	0.86	62.7
	S-C Arc	0.175	0.38	28.7	S-20	0.268	0.58	42.2
	M-10	0.156	0.34	24.6	S-20 Arc	0.125	0.27	20.5
	M-10 Arc	0.075	0.16	12.3	ZA Arc	0.363	0.78	100.5
	Rellenos	0.181	0.39	41.8				
270.000	S-CEMEN	1.819	1.85	320.1	G-25	0.397	0.40	63.1
	S-C Arc	0.175	0.18	28.9	S-20	0.268	0.27	42.5
	M-10	0.156	0.16	24.7	S-20 Arc	0.125	0.13	20.6
	M-10 Arc	0.075	0.08	12.4	ZA Arc	0.365	0.37	100.8
	Rellenos	0.182	0.19	42.0				
271.137	S-CEMEN	1.819	2.07	322.1	G-25	0.397	0.45	63.6
	S-C Arc	0.175	0.20	29.1	S-20	0.268	0.30	42.8
	M-10	0.156	0.18	24.9	S-20 Arc	0.125	0.14	20.8
	M-10 Arc	0.075	0.09	12.5	ZA Arc	0.363	0.41	101.3
	Rellenos	0.181	0.21	42.2				
273.293	S-CEMEN	1.819	3.92	326.0	G-25	0.397	0.86	64.5
	S-C Arc	0.175	0.38	29.5	S-20	0.268	0.58	43.3
	M-10	0.156	0.34	25.2	S-20 Arc	0.125	0.27	21.1
	M-10 Arc	0.075	0.16	12.6	ZA Arc	0.363	0.78	102.0
	Rellenos	0.181	0.39	42.6				
275.449	S-CEMEN	1.819	3.92	330.0	G-25	0.397	0.86	65.3
	S-C Arc	0.175	0.38	29.9	S-20	0.268	0.58	43.9
	M-10	0.156	0.34	25.6	S-20 Arc	0.125	0.27	21.3
	M-10 Arc	0.075	0.16	12.8	ZA Arc	0.363	0.78	102.8
	Rellenos	0.181	0.39	43.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
277.603	S-CEMEN	1.819	3.92	333.9	G-25	0.397	0.85	66.2
	S-C Arc	0.175	0.38	30.2	S-20	0.268	0.58	44.5
	M-10	0.156	0.34	25.9	S-20 Arc	0.125	0.27	21.6
	M-10 Arc	0.075	0.16	13.0	ZA Arc	0.363	0.78	103.6
	Rellenos	0.181	0.39	43.3				
279.760	S-CEMEN	1.819	3.92	337.8	G-25	0.397	0.86	67.0
	S-C Arc	0.175	0.38	30.6	S-20	0.268	0.58	45.1
	M-10	0.156	0.34	26.3	S-20 Arc	0.125	0.27	21.9
	M-10 Arc	0.075	0.16	13.1	ZA Arc	0.363	0.78	104.4
	Rellenos	0.181	0.39	43.7				
280.000	S-CEMEN	1.819	0.44	338.2	G-25	0.397	0.10	67.1
	S-C Arc	0.175	0.04	30.7	S-20	0.268	0.06	45.1
	M-10	0.156	0.04	26.3	S-20 Arc	0.125	0.03	21.9
	M-10 Arc	0.075	0.02	13.1	ZA Arc	0.364	0.09	104.5
	Rellenos	0.182	0.04	43.8				
281.914	S-CEMEN	1.819	3.48	341.7	G-25	0.397	0.76	67.9
	S-C Arc	0.175	0.33	31.0	S-20	0.268	0.51	45.6
	M-10	0.156	0.30	26.6	S-20 Arc	0.125	0.24	22.1
	M-10 Arc	0.075	0.14	13.3	ZA Arc	0.363	0.70	105.2
	Rellenos	0.181	0.35	44.1				
284.070	S-CEMEN	1.819	3.92	345.6	G-25	0.397	0.86	68.7
	S-C Arc	0.175	0.38	31.4	S-20	0.268	0.58	46.2
	M-10	0.156	0.34	26.9	S-20 Arc	0.125	0.27	22.4
	M-10 Arc	0.075	0.16	13.4	ZA Arc	0.363	0.78	106.0
	Rellenos	0.181	0.39	44.5				
286.224	S-CEMEN	1.819	3.92	349.6	G-25	0.397	0.86	69.6
	S-C Arc	0.175	0.38	31.7	S-20	0.268	0.58	46.8
	M-10	0.156	0.34	27.3	S-20 Arc	0.125	0.27	22.7
	M-10 Arc	0.075	0.16	13.6	ZA Arc	0.363	0.78	106.7
	Rellenos	0.181	0.39	44.9				
288.380	S-CEMEN	1.819	3.92	353.5	G-25	0.397	0.86	70.4
	S-C Arc	0.175	0.38	32.1	S-20	0.268	0.58	47.4
	M-10	0.156	0.34	27.6	S-20 Arc	0.125	0.27	22.9
	M-10 Arc	0.075	0.16	13.8	ZA Arc	0.363	0.78	107.5
	Rellenos	0.181	0.39	45.3				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
290.000	S-CEMEN	1.819	2.95	356.4	G-25	0.397	0.64	71.1
	S-C Arc	0.175	0.28	32.4	S-20	0.268	0.43	47.8
	M-10	0.156	0.25	27.8	S-20 Arc	0.125	0.20	23.1
	M-10 Arc	0.075	0.12	13.9	ZA Arc	0.364	0.59	108.1
	Rellenos	0.182	0.29	45.6				
290.537	S-CEMEN	1.819	0.98	357.4	G-25	0.397	0.21	71.3
	S-C Arc	0.175	0.09	32.5	S-20	0.268	0.14	48.0
	M-10	0.156	0.08	27.9	S-20 Arc	0.125	0.07	23.2
	M-10 Arc	0.075	0.04	13.9	ZA Arc	0.363	0.20	108.3
	Rellenos	0.181	0.10	45.7				
292.691	S-CEMEN	1.820	3.92	361.3	G-25	0.397	0.86	72.2
	S-C Arc	0.175	0.38	32.9	S-20	0.268	0.58	48.5
	M-10	0.156	0.34	28.3	S-20 Arc	0.125	0.27	23.5
	M-10 Arc	0.075	0.16	14.1	ZA Arc	0.363	0.78	109.1
	Rellenos	0.181	0.39	46.1				
294.846	S-CEMEN	1.819	3.92	365.2	G-25	0.397	0.86	73.0
	S-C Arc	0.175	0.38	33.3	S-20	0.268	0.58	49.1
	M-10	0.156	0.34	28.6	S-20 Arc	0.125	0.27	23.7
	M-10 Arc	0.075	0.16	14.2	ZA Arc	0.363	0.78	109.9
	Rellenos	0.181	0.39	46.5				
297.002	S-CEMEN	1.819	3.92	369.2	G-25	0.397	0.86	73.9
	S-C Arc	0.175	0.38	33.6	S-20	0.268	0.58	49.7
	M-10	0.156	0.34	28.9	S-20 Arc	0.125	0.27	24.0
	M-10 Arc	0.075	0.16	14.4	ZA Arc	0.363	0.78	110.7
	Rellenos	0.181	0.39	46.9				
299.158	S-CEMEN	1.819	3.92	373.1	G-25	0.397	0.86	74.7
	S-C Arc	0.175	0.38	34.0	S-20	0.268	0.58	50.3
	M-10	0.156	0.34	29.3	S-20 Arc	0.125	0.27	24.3
	M-10 Arc	0.075	0.16	14.6	ZA Arc	0.363	0.78	111.4
	Rellenos	0.181	0.39	47.3				
300.000	S-CEMEN	1.819	1.53	374.6	G-25	0.397	0.33	75.1
	S-C Arc	0.175	0.15	34.2	S-20	0.268	0.23	50.5
	M-10	0.156	0.13	29.4	S-20 Arc	0.125	0.11	24.4
	M-10 Arc	0.075	0.06	14.6	ZA Arc	0.365	0.31	111.7
	Rellenos	0.182	0.15	47.4				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
301.312	S-CEMEN	1.819	2.39	377.0	G-25	0.397	0.52	75.6
	S-C Arc	0.175	0.23	34.4	S-20	0.268	0.35	50.8
	M-10	0.156	0.20	29.6	S-20 Arc	0.125	0.16	24.6
	M-10 Arc	0.075	0.10	14.7	ZA Arc	0.363	0.48	112.2
	Rellenos	0.181	0.24	47.6				
303.467	S-CEMEN	1.820	3.92	380.9	G-25	0.397	0.86	76.4
	S-C Arc	0.175	0.38	34.8	S-20	0.268	0.58	51.4
	M-10	0.156	0.34	29.9	S-20 Arc	0.125	0.27	24.8
	M-10 Arc	0.075	0.16	14.9	ZA Arc	0.363	0.78	113.0
	Rellenos	0.181	0.39	48.0				
305.624	S-CEMEN	1.819	3.92	384.9	G-25	0.397	0.86	77.3
	S-C Arc	0.175	0.38	35.1	S-20	0.268	0.58	52.0
	M-10	0.156	0.34	30.3	S-20 Arc	0.125	0.27	25.1
	M-10 Arc	0.075	0.16	15.1	ZA Arc	0.363	0.78	113.8
	Rellenos	0.181	0.39	48.4				
307.780	S-CEMEN	1.819	3.92	388.8	G-25	0.397	0.86	78.1
	S-C Arc	0.175	0.38	35.5	S-20	0.268	0.58	52.6
	M-10	0.156	0.34	30.6	S-20 Arc	0.125	0.27	25.4
	M-10 Arc	0.075	0.16	15.2	ZA Arc	0.363	0.78	114.6
	Rellenos	0.181	0.39	48.8				
309.934	S-CEMEN	1.819	3.92	392.7	G-25	0.397	0.86	79.0
	S-C Arc	0.175	0.38	35.9	S-20	0.268	0.58	53.1
	M-10	0.156	0.34	31.0	S-20 Arc	0.125	0.27	25.6
	M-10 Arc	0.075	0.16	15.4	ZA Arc	0.363	0.78	115.4
	Rellenos	0.181	0.39	49.2				
310.000	S-CEMEN	1.819	0.12	392.8	G-25	0.397	0.03	79.0
	S-C Arc	0.175	0.01	35.9	S-20	0.268	0.02	53.2
	M-10	0.156	0.01	31.0	S-20 Arc	0.125	0.01	25.6
	M-10 Arc	0.075	0.00	15.4	ZA Arc	0.364	0.02	115.4
	Rellenos	0.182	0.01	49.2				
314.670	S-CEMEN	1.819	8.50	401.3	G-25	0.397	1.85	80.9
	S-C Arc	0.175	0.82	36.7	S-20	0.268	1.25	54.4
	M-10	0.156	0.73	31.7	S-20 Arc	0.125	0.58	26.2
	M-10 Arc	0.075	0.35	15.7	ZA Arc	0.386	1.75	117.1
	Rellenos	0.198	0.89	50.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
315.000	S-CEMEN	1.819	0.60	401.9	G-25	0.397	0.13	81.0
	S-C Arc	0.175	0.06	36.8	S-20	0.268	0.09	54.5
	M-10	0.156	0.05	31.7	S-20 Arc	0.125	0.04	26.3
	M-10 Arc	0.075	0.02	15.8	ZA Arc	0.392	0.13	117.3
	Rellenos	0.203	0.07	50.2				
320.000	S-CEMEN	1.819	9.10	411.0	G-25	0.397	1.98	83.0
	S-C Arc	0.175	0.88	37.7	S-20	0.267	1.34	55.8
	M-10	0.156	0.78	32.5	S-20 Arc	0.125	0.62	26.9
	M-10 Arc	0.075	0.38	16.1	ZA Arc	0.447	2.10	119.4
	Rellenos	0.244	1.12	51.3				
320.354	S-CEMEN	1.819	0.64	411.7	G-25	0.397	0.14	83.1
	S-C Arc	0.175	0.06	37.7	S-20	0.268	0.09	55.9
	M-10	0.156	0.06	32.6	S-20 Arc	0.125	0.04	26.9
	M-10 Arc	0.075	0.03	16.2	ZA Arc	0.449	0.16	119.5
	Rellenos	0.244	0.09	51.4				
326.662	S-CEMEN	1.819	11.48	423.1	G-25	0.397	2.50	85.6
	S-C Arc	0.175	1.10	38.8	S-20	0.267	1.69	57.6
	M-10	0.156	0.98	33.6	S-20 Arc	0.125	0.79	27.7
	M-10 Arc	0.075	0.47	16.6	ZA Arc	0.522	3.06	122.6
	Rellenos	0.261	1.59	53.0				
327.686	S-CEMEN	1.819	1.86	425.0	G-25	0.397	0.41	86.0
	S-C Arc	0.175	0.18	39.0	S-20	0.268	0.27	57.9
	M-10	0.156	0.16	33.7	S-20 Arc	0.125	0.13	27.9
	M-10 Arc	0.075	0.08	16.7	ZA Arc	0.523	0.53	123.1
	Rellenos	0.263	0.27	53.2				
329.332	S-CEMEN	1.852	3.02	428.0	G-25	0.397	0.65	86.7
	S-C Arc	0.175	0.29	39.3	S-20	0.268	0.44	58.3
	M-10	0.156	0.26	34.0	S-20 Arc	0.125	0.21	28.1
	M-10 Arc	0.075	0.12	16.8	ZA Arc	0.520	0.86	124.0
	Rellenos	0.251	0.42	53.7				
330.000	S-CEMEN	1.891	1.25	429.3	G-25	0.397	0.27	87.0
	S-C Arc	0.175	0.12	39.4	S-20	0.268	0.18	58.5
	M-10	0.156	0.10	34.1	S-20 Arc	0.125	0.08	28.1
	M-10 Arc	0.074	0.05	16.9	ZA Arc	0.517	0.35	124.3
	Rellenos	0.247	0.17	53.8				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
331.874	S-CEMEN	1.996	3.64	432.9	G-25	0.397	0.74	87.7
	S-C Arc	0.175	0.33	39.7	S-20	0.267	0.50	59.0
	M-10	0.156	0.29	34.4	S-20 Arc	0.125	0.23	28.4
	M-10 Arc	0.073	0.14	17.0	ZA Arc	0.508	0.96	125.3
	Rellenos	0.234	0.45	54.3				
332.382	S-CEMEN	2.024	1.02	433.9	G-25	0.397	0.20	87.9
	S-C Arc	0.175	0.09	39.8	S-20	0.268	0.14	59.1
	M-10	0.156	0.08	34.5	S-20 Arc	0.125	0.06	28.4
	M-10 Arc	0.073	0.04	17.1	ZA Arc	0.505	0.26	125.5
	Rellenos	0.230	0.12	54.4				
333.276	S-CEMEN	2.071	1.83	435.8	G-25	0.397	0.35	88.3
	S-C Arc	0.175	0.16	40.0	S-20	0.267	0.24	59.4
	M-10	0.156	0.14	34.6	S-20 Arc	0.125	0.11	28.6
	M-10 Arc	0.072	0.06	17.1	ZA Arc	0.501	0.45	126.0
	Rellenos	0.223	0.20	54.6				
334.658	S-CEMEN	2.145	2.91	438.7	G-25	0.397	0.55	88.8
	S-C Arc	0.175	0.24	40.2	S-20	0.267	0.37	59.8
	M-10	0.156	0.22	34.8	S-20 Arc	0.125	0.17	28.7
	M-10 Arc	0.070	0.10	17.2	ZA Arc	0.495	0.69	126.7
	Rellenos	0.213	0.30	54.9				
334.934	S-CEMEN	2.169	0.60	439.3	G-25	0.398	0.11	88.9
	S-C Arc	0.175	0.05	40.3	S-20	0.269	0.07	59.8
	M-10	0.157	0.04	34.9	S-20 Arc	0.125	0.03	28.8
	M-10 Arc	0.070	0.02	17.2	ZA Arc	0.496	0.14	126.8
	Rellenos	0.211	0.06	55.0				
336.031	S-CEMEN	2.256	2.43	441.7	G-25	0.404	0.44	89.4
	S-C Arc	0.175	0.19	40.5	S-20	0.272	0.30	60.1
	M-10	0.159	0.17	35.0	S-20 Arc	0.125	0.14	28.9
	M-10 Arc	0.068	0.08	17.3	ZA Arc	0.493	0.54	127.3
	Rellenos	0.203	0.23	55.2				
337.400	S-CEMEN	2.374	3.17	444.9	G-25	0.413	0.56	89.9
	S-C Arc	0.175	0.24	40.7	S-20	0.279	0.38	60.5
	M-10	0.163	0.22	35.3	S-20 Arc	0.125	0.17	29.1
	M-10 Arc	0.067	0.09	17.4	ZA Arc	0.472	0.66	128.0
	Rellenos	0.193	0.27	55.5				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
338.762	S-CEMEN	2.489	3.31	448.2	G-25	0.423	0.57	90.5
	S-C Arc	0.175	0.24	40.9	S-20	0.286	0.39	60.9
	M-10	0.167	0.23	35.5	S-20 Arc	0.124	0.17	29.2
	M-10 Arc	0.065	0.09	17.5	ZA Arc	0.497	0.66	128.7
	Rellenos	0.189	0.26	55.7				
339.892	S-CEMEN	2.580	2.86	451.0	G-25	0.431	0.48	91.0
	S-C Arc	0.175	0.20	41.1	S-20	0.292	0.33	61.2
	M-10	0.171	0.19	35.7	S-20 Arc	0.124	0.14	29.4
	M-10 Arc	0.063	0.07	17.6	ZA Arc	0.277	0.44	129.1
	Rellenos	0.151	0.19	55.9				
340.000	S-CEMEN	2.588	0.28	451.3	G-25	0.432	0.05	91.0
	S-C Arc	0.175	0.02	41.2	S-20	0.293	0.03	61.2
	M-10	0.171	0.02	35.7	S-20 Arc	0.124	0.01	29.4
	M-10 Arc	0.063	0.01	17.6	ZA Arc	0.250	0.03	129.1
	Rellenos	0.140	0.02	55.9				
340.118	S-CEMEN	2.597	0.31	451.6	G-25	0.433	0.05	91.1
	S-C Arc	0.175	0.02	41.2	S-20	0.293	0.03	61.3
	M-10	0.171	0.02	35.7	S-20 Arc	0.124	0.01	29.4
	M-10 Arc	0.063	0.01	17.6	ZA Arc	0.220	0.03	129.2
	Rellenos	0.129	0.02	55.9				
340.636	S-CEMEN	2.615	1.35	453.0	G-25	0.437	0.23	91.3
	S-C Arc	0.175	0.09	41.3	S-20	0.296	0.15	61.4
	M-10	0.173	0.09	35.8	S-20 Arc	0.124	0.06	29.5
	M-10 Arc	0.062	0.03	17.6	ZA Arc	0.115	0.09	129.2
	Rellenos	0.079	0.05	56.0				
340.822	S-CEMEN	2.595	0.48	453.5	G-25	0.438	0.08	91.4
	S-C Arc	0.175	0.03	41.3	S-20	0.297	0.06	61.5
	M-10	0.173	0.03	35.8	S-20 Arc	0.124	0.02	29.5
	M-10 Arc	0.062	0.01	17.6	ZA Arc	0.102	0.02	129.3
	Rellenos	0.061	0.01	56.0				
341.466	S-CEMEN	2.500	1.64	455.1	G-25	0.425	0.28	91.7
	S-C Arc	0.175	0.11	41.4	S-20	0.295	0.19	61.7
	M-10	0.175	0.11	35.9	S-20 Arc	0.124	0.08	29.6
	M-10 Arc	0.061	0.04	17.7	ZA Arc	0.089	0.06	129.3
	Rellenos	0.022	0.03	56.0				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
342.808	S-CEMEN	2.334	3.24	458.3	G-25	0.381	0.54	92.2
	S-C Arc	0.175	0.23	41.6	S-20	0.264	0.38	62.1
	M-10	0.156	0.22	36.2	S-20 Arc	0.123	0.17	29.7
	M-10 Arc	0.059	0.08	17.8	ZA Arc	0.061	0.10	129.4
	Rellenos	0.015	0.02	56.1				
343.256	S-CEMEN	2.285	1.03	459.4	G-25	0.369	0.17	92.4
	S-C Arc	0.175	0.08	41.7	S-20	0.255	0.12	62.2
	M-10	0.151	0.07	36.2	S-20 Arc	0.123	0.06	29.8
	M-10 Arc	0.059	0.03	17.8	ZA Arc	0.051	0.03	129.5
	Rellenos	0.012	0.01	56.1				
344.429	S-CEMEN	1.960	2.49	461.9	G-25	0.287	0.38	92.7
	S-C Arc	0.175	0.21	41.9	S-20	0.197	0.27	62.4
	M-10	0.116	0.16	36.4	S-20 Arc	0.122	0.14	29.9
	M-10 Arc	0.057	0.07	17.8	ZA Arc	0.027	0.05	129.5
	Rellenos	0.006	0.01	56.1				
345.923	S-CEMEN	1.670	2.71	464.6	G-25	0.206	0.37	93.1
	S-C Arc	0.172	0.26	42.2	S-20	0.139	0.25	62.7
	M-10	0.081	0.15	36.5	S-20 Arc	0.122	0.18	30.1
	M-10 Arc	0.055	0.08	17.9	ZA Arc	0.008	0.03	129.5
	Rellenos	0.001	0.01	56.1				
347.579	S-CEMEN	1.456	2.59	467.2	G-25	0.137	0.28	93.4
	S-C Arc	0.166	0.28	42.5	S-20	0.090	0.19	62.9
	M-10	0.052	0.11	36.6	S-20 Arc	0.119	0.20	30.3
	M-10 Arc	0.053	0.09	18.0				
349.383	S-CEMEN	1.264	2.45	469.6	G-25	0.082	0.20	93.6
	S-C Arc	0.159	0.29	42.8	S-20	0.051	0.13	63.0
	M-10	0.028	0.07	36.7	S-20 Arc	0.115	0.21	30.5
	M-10 Arc	0.051	0.09	18.1				
350.000	S-CEMEN	1.205	0.76	470.4	G-25	0.068	0.05	93.6
	S-C Arc	0.157	0.10	42.9	S-20	0.041	0.03	63.0
	M-10	0.022	0.02	36.7	S-20 Arc	0.114	0.07	30.6
	M-10 Arc	0.050	0.03	18.1				
351.046	S-CEMEN	1.109	1.21	471.6	G-25	0.048	0.06	93.7
	S-C Arc	0.153	0.16	43.0	S-20	0.026	0.04	63.1
	M-10	0.014	0.02	36.8	S-20 Arc	0.112	0.12	30.7
	M-10 Arc	0.049	0.05	18.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
351.308	S-CEMEN	1.086	0.29	471.9	G-25	0.043	0.01	93.7
	S-C Arc	0.152	0.04	43.1	S-20	0.023	0.01	63.1
	M-10	0.012	0.00	36.8	S-20 Arc	0.111	0.03	30.7
	M-10 Arc	0.048	0.01	18.2				
354.060	S-CEMEN	0.924	2.77	474.6	G-25	0.018	0.08	93.8
	S-C Arc	0.142	0.40	43.5	S-20	0.005	0.04	63.1
	M-10	0.001	0.02	36.8	S-20 Arc	0.104	0.30	31.0
	M-10 Arc	0.045	0.13	18.3				
354.866	S-CEMEN	0.901	0.74	475.4	G-25	0.016	0.01	93.8
	S-C Arc	0.139	0.11	43.6	S-20	0.004	0.00	63.1
	S-20 Arc	0.102	0.08	31.1	M-10 Arc	0.043	0.04	18.4
354.869	S-CEMEN	0.901	0.00	475.4	G-25	0.016	0.00	93.8
	S-C Arc	0.139	0.00	43.6	S-20	0.004	0.00	63.1
	S-20 Arc	0.102	0.00	31.1	M-10 Arc	0.043	0.00	18.4

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PROYECTO : VARIANTE DE OURENSE
EJE: 9: ENLACE DA CASILLA Ramal A

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	475.4
G-25	93.8
S-C Arc	43.6
S-20	63.1
M-10	36.8
S-20 Arc	31.1
M-10 Arc	18.4
ZA Arc	129.5
Rellenos	56.1

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLIA Ramal B

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	S-CEMEN	0.856	0.00	0.0	G-25	0.027	0.00	0.0
	S-C Arc	0.146	0.00	0.0	S-20	0.011	0.00	0.0
	M-10	0.004	0.00	0.0	S-20 Arc	0.106	0.00	0.0
	M-10 Arc	0.057	0.00	0.0				
0.005	S-CEMEN	0.856	0.00	0.0	G-25	0.027	0.00	0.0
	S-C Arc	0.146	0.00	0.0	S-20	0.011	0.00	0.0
	M-10	0.004	0.00	0.0	S-20 Arc	0.106	0.00	0.0
	M-10 Arc	0.057	0.00	0.0				
10.000	S-CEMEN	1.757	13.06	13.1	G-25	0.272	1.49	1.5
	S-C Arc	0.175	1.60	1.6	S-20	0.186	0.99	1.0
	M-10	0.110	0.57	0.6	S-20 Arc	0.125	1.15	1.2
	M-10 Arc	0.071	0.64	0.6	ZA Arc	0.060	0.30	0.3
	Rellenos	0.015	0.08	0.1				
13.372	S-CEMEN	2.223	6.71	19.8	G-25	0.436	1.19	2.7
	S-C Arc	0.175	0.59	2.2	S-20	0.303	0.83	1.8
	M-10	0.180	0.49	1.1	S-20 Arc	0.125	0.42	1.6
	M-10 Arc	0.073	0.24	0.9	ZA Arc	0.109	0.29	0.6
	Rellenos	0.040	0.09	0.2				
13.929	S-CEMEN	2.270	1.25	21.0	G-25	0.453	0.25	2.9
	S-C Arc	0.175	0.10	2.3	S-20	0.315	0.17	2.0
	M-10	0.187	0.10	1.2	S-20 Arc	0.125	0.07	1.6
	M-10 Arc	0.073	0.04	0.9	ZA Arc	0.117	0.06	0.6
	Rellenos	0.044	0.02	0.2				
15.478	S-CEMEN	2.452	3.66	24.7	G-25	0.507	0.74	3.7
	S-C Arc	0.175	0.27	2.6	S-20	0.352	0.52	2.5
	M-10	0.207	0.31	1.5	S-20 Arc	0.125	0.19	1.8
	M-10 Arc	0.073	0.11	1.0	ZA Arc	0.138	0.20	0.8
	Rellenos	0.061	0.08	0.3				
15.830	S-CEMEN	2.505	0.87	25.6	G-25	0.513	0.18	3.9
	S-C Arc	0.175	0.06	2.6	S-20	0.351	0.12	2.6
	M-10	0.206	0.07	1.5	S-20 Arc	0.125	0.04	1.9
	M-10 Arc	0.073	0.03	1.1	ZA Arc	0.143	0.05	0.9
	Rellenos	0.085	0.03	0.3				
15.981	S-CEMEN	2.525	0.38	25.9	G-25	0.513	0.08	3.9
	S-C Arc	0.175	0.03	2.6	S-20	0.350	0.05	2.7
	M-10	0.206	0.03	1.6	S-20 Arc	0.125	0.02	1.9
	M-10 Arc	0.073	0.01	1.1	ZA Arc	0.146	0.02	0.9
	Rellenos	0.097	0.01	0.3				

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PROYECTO : VARIANTE DE OURENSE
EJE: 10: ENLACE DA CASILLIA Ramal B

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
16.734	S-CEMEN	2.510	1.90	27.8	G-25	0.510	0.39	4.3
	S-C Arc	0.175	0.13	2.8	S-20	0.348	0.26	2.9
	M-10	0.204	0.15	1.7	S-20 Arc	0.125	0.09	2.0
	M-10 Arc	0.074	0.06	1.1	ZA Arc	0.267	0.16	1.1
	Rellenos	0.151	0.09	0.4				
17.029	S-CEMEN	2.493	0.74	28.6	G-25	0.509	0.15	4.5
	S-C Arc	0.175	0.05	2.8	S-20	0.347	0.10	3.0
	M-10	0.204	0.06	1.8	S-20 Arc	0.125	0.04	2.0
	M-10 Arc	0.074	0.02	1.1	ZA Arc	0.324	0.09	1.2
	Rellenos	0.167	0.05	0.5				
18.587	S-CEMEN	2.404	3.81	32.4	G-25	0.503	0.79	5.3
	S-C Arc	0.175	0.27	3.1	S-20	0.343	0.54	3.6
	M-10	0.202	0.32	2.1	S-20 Arc	0.125	0.19	2.2
	M-10 Arc	0.074	0.12	1.3	ZA Arc	0.548	0.68	1.8
	Rellenos	0.189	0.28	0.7				
20.000	S-CEMEN	2.294	3.32	35.7	G-25	0.498	0.71	6.0
	S-C Arc	0.175	0.25	3.4	S-20	0.339	0.48	4.1
	M-10	0.199	0.28	2.4	S-20 Arc	0.125	0.18	2.4
	M-10 Arc	0.075	0.11	1.4	ZA Arc	0.174	0.51	2.3
	Rellenos	0.130	0.23	1.0				
20.147	S-CEMEN	2.318	0.34	36.0	G-25	0.497	0.07	6.0
	S-C Arc	0.175	0.03	3.4	S-20	0.339	0.05	4.1
	M-10	0.199	0.03	2.4	S-20 Arc	0.125	0.02	2.4
	M-10 Arc	0.075	0.01	1.4	ZA Arc	0.353	0.04	2.4
	Rellenos	0.193	0.02	1.0				
20.263	S-CEMEN	2.311	0.27	36.3	G-25	0.497	0.06	6.1
	S-C Arc	0.175	0.02	3.4	S-20	0.339	0.04	4.2
	M-10	0.199	0.02	2.4	S-20 Arc	0.125	0.01	2.4
	M-10 Arc	0.075	0.01	1.4	ZA Arc	0.374	0.04	2.4
	Rellenos	0.198	0.02	1.0				
21.711	S-CEMEN	2.235	3.29	39.6	G-25	0.491	0.72	6.8
	S-C Arc	0.175	0.25	3.7	S-20	0.335	0.49	4.6
	M-10	0.196	0.29	2.7	S-20 Arc	0.125	0.18	2.6
	M-10 Arc	0.075	0.11	1.5	ZA Arc	0.486	0.62	3.1
	Rellenos	0.211	0.30	1.3				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
21.791	S-CEMEN	2.231	0.18	39.8	G-25	0.491	0.04	6.9
	S-C Arc	0.175	0.01	3.7	S-20	0.335	0.03	4.7
	M-10	0.196	0.02	2.7	S-20 Arc	0.125	0.01	2.6
	M-10 Arc	0.075	0.01	1.5	ZA Arc	0.490	0.04	3.1
	Rellenos	0.212	0.02	1.3				
23.279	S-CEMEN	2.155	3.26	43.0	G-25	0.485	0.73	7.6
	S-C Arc	0.175	0.26	3.9	S-20	0.331	0.50	5.2
	M-10	0.194	0.29	3.0	S-20 Arc	0.125	0.19	2.8
	M-10 Arc	0.075	0.11	1.6	ZA Arc	0.524	0.75	3.8
	Rellenos	0.222	0.32	1.6				
24.549	S-CEMEN	2.091	2.70	45.7	G-25	0.481	0.61	8.2
	S-C Arc	0.175	0.22	4.1	S-20	0.328	0.42	5.6
	M-10	0.192	0.25	3.3	S-20 Arc	0.125	0.16	3.0
	M-10 Arc	0.075	0.10	1.7	ZA Arc	0.418	0.60	4.4
	Rellenos	0.208	0.27	1.9				
24.851	S-CEMEN	2.077	0.63	46.4	G-25	0.480	0.15	8.3
	S-C Arc	0.175	0.05	4.2	S-20	0.327	0.10	5.7
	M-10	0.192	0.06	3.3	S-20 Arc	0.125	0.04	3.0
	M-10 Arc	0.075	0.02	1.7	ZA Arc	0.427	0.13	4.6
	Rellenos	0.214	0.06	2.0				
25.000	S-CEMEN	2.055	0.31	46.7	G-25	0.479	0.07	8.4
	S-C Arc	0.175	0.03	4.2	S-20	0.326	0.05	5.7
	M-10	0.191	0.03	3.4	S-20 Arc	0.125	0.02	3.0
	M-10 Arc	0.075	0.01	1.7	ZA Arc	0.407	0.06	4.6
	Rellenos	0.217	0.03	2.0				
26.426	S-CEMEN	2.041	2.92	49.6	G-25	0.474	0.68	9.1
	S-C Arc	0.175	0.25	4.5	S-20	0.323	0.46	6.2
	M-10	0.189	0.27	3.6	S-20 Arc	0.125	0.18	3.2
	M-10 Arc	0.075	0.11	1.9	ZA Arc	0.452	0.61	5.2
	Rellenos	0.237	0.32	2.3				
28.004	S-CEMEN	2.025	3.21	52.8	G-25	0.469	0.74	9.8
	S-C Arc	0.175	0.28	4.8	S-20	0.319	0.51	6.7
	M-10	0.187	0.30	3.9	S-20 Arc	0.125	0.20	3.4
	M-10 Arc	0.075	0.12	2.0	ZA Arc	0.495	0.75	6.0
	Rellenos	0.249	0.38	2.7				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
29.434	S-CEMEN	2.012	2.89	55.7	G-25	0.464	0.67	10.5
	S-C Arc	0.175	0.25	5.0	S-20	0.315	0.45	7.2
	M-10	0.185	0.27	4.2	S-20 Arc	0.125	0.18	3.6
	M-10 Arc	0.075	0.11	2.1	ZA Arc	0.519	0.73	6.7
	Rellenos	0.260	0.36	3.1				
29.586	S-CEMEN	2.010	0.31	56.0	G-25	0.464	0.07	10.6
	S-C Arc	0.175	0.03	5.0	S-20	0.315	0.05	7.2
	M-10	0.185	0.03	4.2	S-20 Arc	0.125	0.02	3.6
	M-10 Arc	0.075	0.01	2.1	ZA Arc	0.521	0.08	6.8
	Rellenos	0.261	0.04	3.1				
30.000	S-CEMEN	2.006	0.83	56.8	G-25	0.462	0.19	10.8
	S-C Arc	0.175	0.07	5.1	S-20	0.314	0.13	7.3
	M-10	0.184	0.08	4.3	S-20 Arc	0.125	0.05	3.7
	M-10 Arc	0.075	0.03	2.1	ZA Arc	0.525	0.22	7.0
	Rellenos	0.264	0.11	3.2				
31.171	S-CEMEN	1.996	2.34	59.2	G-25	0.459	0.54	11.3
	S-C Arc	0.175	0.20	5.3	S-20	0.311	0.37	7.7
	M-10	0.182	0.21	4.5	S-20 Arc	0.125	0.15	3.8
	M-10 Arc	0.075	0.09	2.2	ZA Arc	0.525	0.62	7.6
	Rellenos	0.264	0.31	3.5				
32.758	S-CEMEN	1.982	3.16	62.3	G-25	0.454	0.72	12.0
	S-C Arc	0.175	0.28	5.6	S-20	0.308	0.49	8.2
	M-10	0.180	0.29	4.8	S-20 Arc	0.125	0.20	4.0
	M-10 Arc	0.075	0.12	2.3	ZA Arc	0.525	0.83	8.5
	Rellenos	0.264	0.42	4.0				
33.762	S-CEMEN	1.973	1.99	64.3	G-25	0.451	0.45	12.5
	S-C Arc	0.175	0.18	5.8	S-20	0.306	0.31	8.5
	M-10	0.179	0.18	5.0	S-20 Arc	0.125	0.13	4.1
	M-10 Arc	0.075	0.08	2.4	ZA Arc	0.525	0.53	9.0
	Rellenos	0.264	0.27	4.2				
34.353	S-CEMEN	1.968	1.16	65.5	G-25	0.449	0.27	12.7
	S-C Arc	0.175	0.10	5.9	S-20	0.305	0.18	8.7
	M-10	0.178	0.11	5.1	S-20 Arc	0.125	0.07	4.2
	M-10 Arc	0.075	0.04	2.4	ZA Arc	0.525	0.31	9.3
	Rellenos	0.264	0.16	4.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
35.948	S-CEMEN	1.955	3.13	68.6	G-25	0.444	0.71	13.5
	S-C Arc	0.175	0.28	6.1	S-20	0.301	0.48	9.2
	M-10	0.176	0.28	5.4	S-20 Arc	0.125	0.20	4.4
	M-10 Arc	0.075	0.12	2.6	ZA Arc	0.525	0.84	10.1
	Rellenos	0.264	0.42	4.8				
37.546	S-CEMEN	1.942	3.11	71.7	G-25	0.440	0.71	14.2
	S-C Arc	0.175	0.28	6.4	S-20	0.298	0.48	9.6
	M-10	0.174	0.28	5.6	S-20 Arc	0.125	0.20	4.6
	M-10 Arc	0.075	0.12	2.7	ZA Arc	0.525	0.84	11.0
	Rellenos	0.265	0.42	5.2				
37.723	S-CEMEN	1.940	0.34	72.1	G-25	0.439	0.08	14.2
	S-C Arc	0.175	0.03	6.5	S-20	0.298	0.05	9.7
	M-10	0.174	0.03	5.7	S-20 Arc	0.125	0.02	4.6
	M-10 Arc	0.075	0.01	2.7	ZA Arc	0.525	0.09	11.1
	Rellenos	0.264	0.05	5.3				
37.954	S-CEMEN	1.937	0.45	72.5	G-25	0.438	0.10	14.3
	S-C Arc	0.175	0.04	6.5	S-20	0.297	0.07	9.8
	M-10	0.173	0.04	5.7	S-20 Arc	0.125	0.03	4.6
	M-10 Arc	0.075	0.02	2.7	ZA Arc	0.525	0.12	11.2
	Rellenos	0.264	0.06	5.3				
38.689	S-CEMEN	1.940	1.42	73.9	G-25	0.439	0.32	14.7
	S-C Arc	0.175	0.13	6.6	S-20	0.297	0.22	10.0
	M-10	0.174	0.13	5.8	S-20 Arc	0.125	0.09	4.7
	M-10 Arc	0.075	0.06	2.8	ZA Arc	0.525	0.39	11.6
	Rellenos	0.264	0.19	5.5				
40.000	S-CEMEN	1.940	2.54	76.5	G-25	0.439	0.58	15.2
	S-C Arc	0.175	0.23	6.9	S-20	0.298	0.39	10.4
	M-10	0.174	0.23	6.1	S-20 Arc	0.125	0.16	4.9
	M-10 Arc	0.075	0.10	2.9	ZA Arc	0.525	0.69	12.3
	Rellenos	0.264	0.35	5.9				
40.237	S-CEMEN	1.940	0.46	76.9	G-25	0.439	0.10	15.3
	S-C Arc	0.175	0.04	6.9	S-20	0.298	0.07	10.4
	M-10	0.174	0.04	6.1	S-20 Arc	0.125	0.03	4.9
	M-10 Arc	0.075	0.02	2.9	ZA Arc	0.525	0.12	12.4
	Rellenos	0.264	0.06	5.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
41.082	S-CEMEN	1.940	1.64	78.6	G-25	0.439	0.37	15.7
	S-C Arc	0.175	0.15	7.0	S-20	0.298	0.25	10.7
	M-10	0.174	0.15	6.3	S-20 Arc	0.125	0.11	5.0
	M-10 Arc	0.075	0.06	2.9	ZA Arc	0.525	0.44	12.8
	Rellenos	0.264	0.22	6.2				
41.786	S-CEMEN	1.940	1.37	79.9	G-25	0.439	0.31	16.0
	S-C Arc	0.175	0.12	7.2	S-20	0.298	0.21	10.9
	M-10	0.174	0.12	6.4	S-20 Arc	0.125	0.09	5.1
	M-10 Arc	0.075	0.05	3.0	ZA Arc	0.524	0.37	13.2
	Rellenos	0.264	0.19	6.3				
42.625	S-CEMEN	1.940	1.63	81.6	G-25	0.439	0.37	16.4
	S-C Arc	0.175	0.15	7.3	S-20	0.298	0.25	11.1
	M-10	0.174	0.15	6.5	S-20 Arc	0.125	0.10	5.2
	M-10 Arc	0.075	0.06	3.1	ZA Arc	0.515	0.44	13.6
	Rellenos	0.264	0.22	6.8				
43.332	S-CEMEN	1.940	1.37	82.9	G-25	0.439	0.31	16.7
	S-C Arc	0.175	0.12	7.4	S-20	0.298	0.21	11.4
	M-10	0.174	0.12	6.7	S-20 Arc	0.125	0.09	5.3
	M-10 Arc	0.075	0.05	3.1	ZA Arc	0.501	0.36	14.0
	Rellenos	0.264	0.19	6.8				
44.179	S-CEMEN	1.940	1.64	84.6	G-25	0.439	0.37	17.1
	S-C Arc	0.175	0.15	7.6	S-20	0.298	0.25	11.6
	M-10	0.174	0.15	6.8	S-20 Arc	0.125	0.11	5.4
	M-10 Arc	0.075	0.06	3.2	ZA Arc	0.482	0.42	14.4
	Rellenos	0.264	0.22	7.0				
44.881	S-CEMEN	1.940	1.36	85.9	G-25	0.439	0.31	17.4
	S-C Arc	0.175	0.12	7.7	S-20	0.298	0.21	11.8
	M-10	0.174	0.12	6.9	S-20 Arc	0.125	0.09	5.5
	M-10 Arc	0.075	0.05	3.2	ZA Arc	0.460	0.33	14.7
	Rellenos	0.265	0.19	7.2				
45.743	S-CEMEN	1.939	1.67	87.6	G-25	0.439	0.38	17.8
	S-C Arc	0.175	0.15	7.9	S-20	0.298	0.26	12.1
	M-10	0.174	0.15	7.1	S-20 Arc	0.125	0.11	5.6
	M-10 Arc	0.075	0.06	3.3	ZA Arc	0.437	0.39	15.1
	Rellenos	0.265	0.23	7.4				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
46.429	S-CEMEN	1.939	1.33	88.9	G-25	0.439	0.30	18.1
	S-C Arc	0.175	0.12	8.0	S-20	0.298	0.20	12.3
	M-10	0.174	0.12	7.2	S-20 Arc	0.125	0.09	5.7
	M-10 Arc	0.075	0.05	3.4	ZA Arc	0.414	0.29	15.4
	Rellenos	0.264	0.18	7.6				
47.314	S-CEMEN	1.940	1.72	90.7	G-25	0.439	0.39	18.5
	S-C Arc	0.175	0.15	8.1	S-20	0.298	0.26	12.5
	M-10	0.174	0.15	7.3	S-20 Arc	0.125	0.11	5.8
	M-10 Arc	0.075	0.07	3.4	ZA Arc	0.394	0.36	15.8
	Rellenos	0.261	0.23	7.8				
47.976	S-CEMEN	1.940	1.28	91.9	G-25	0.439	0.29	18.7
	S-C Arc	0.175	0.12	8.2	S-20	0.298	0.20	12.7
	M-10	0.174	0.12	7.5	S-20 Arc	0.125	0.08	5.9
	M-10 Arc	0.075	0.05	3.5	ZA Arc	0.376	0.25	16.0
	Rellenos	0.258	0.17	8.0				
48.891	S-CEMEN	1.940	1.78	93.7	G-25	0.439	0.40	19.1
	S-C Arc	0.175	0.16	8.4	S-20	0.298	0.27	13.0
	M-10	0.174	0.16	7.6	S-20 Arc	0.125	0.11	6.0
	M-10 Arc	0.075	0.07	3.5	ZA Arc	0.362	0.34	16.4
	Rellenos	0.254	0.23	8.2				
49.524	S-CEMEN	1.940	1.23	95.0	G-25	0.439	0.28	19.4
	S-C Arc	0.175	0.11	8.5	S-20	0.298	0.19	13.2
	M-10	0.174	0.11	7.7	S-20 Arc	0.125	0.08	6.1
	M-10 Arc	0.075	0.05	3.6	ZA Arc	0.349	0.22	16.6
	Rellenos	0.252	0.16	8.4				
50.000	S-CEMEN	1.939	0.92	95.9	G-25	0.439	0.21	19.6
	S-C Arc	0.175	0.08	8.6	S-20	0.297	0.14	13.3
	M-10	0.174	0.08	7.8	S-20 Arc	0.125	0.06	6.2
	M-10 Arc	0.075	0.04	3.6	ZA Arc	0.343	0.16	16.8
	Rellenos	0.251	0.12	8.5				
50.473	S-CEMEN	1.940	0.92	96.8	G-25	0.439	0.21	19.8
	S-C Arc	0.175	0.08	8.7	S-20	0.298	0.14	13.5
	M-10	0.174	0.08	7.9	S-20 Arc	0.125	0.06	6.2
	M-10 Arc	0.075	0.04	3.7	ZA Arc	0.341	0.16	16.9
	Rellenos	0.250	0.12	8.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
51.072	S-CEMEN	1.939	1.16	98.0	G-25	0.439	0.26	20.1
	S-C Arc	0.175	0.10	8.8	S-20	0.298	0.18	13.7
	M-10	0.174	0.10	8.0	S-20 Arc	0.125	0.07	6.3
	M-10 Arc	0.075	0.04	3.7	ZA Arc	0.333	0.20	17.1
	Rellenos	0.249	0.15	8.8				
52.058	S-CEMEN	1.940	1.91	99.9	G-25	0.439	0.43	20.5
	S-C Arc	0.175	0.17	9.0	S-20	0.298	0.29	14.0
	M-10	0.174	0.17	8.2	S-20 Arc	0.125	0.12	6.4
	M-10 Arc	0.075	0.07	3.8	ZA Arc	0.331	0.33	17.5
	Rellenos	0.248	0.24	9.0				
52.618	S-CEMEN	1.940	1.09	101.0	G-25	0.439	0.25	20.8
	S-C Arc	0.175	0.10	9.1	S-20	0.298	0.17	14.1
	M-10	0.174	0.10	8.3	S-20 Arc	0.125	0.07	6.5
	M-10 Arc	0.075	0.04	3.8	ZA Arc	0.328	0.18	17.6
	Rellenos	0.247	0.14	9.1				
53.642	S-CEMEN	1.940	1.99	102.9	G-25	0.439	0.45	21.2
	S-C Arc	0.175	0.18	9.2	S-20	0.298	0.30	14.4
	M-10	0.174	0.18	8.4	S-20 Arc	0.125	0.13	6.6
	M-10 Arc	0.075	0.08	3.9	ZA Arc	0.333	0.34	18.0
	Rellenos	0.248	0.25	9.4				
54.165	S-CEMEN	1.940	1.01	104.0	G-25	0.439	0.23	21.5
	S-C Arc	0.175	0.09	9.3	S-20	0.298	0.16	14.6
	M-10	0.174	0.09	8.5	S-20 Arc	0.125	0.07	6.7
	M-10 Arc	0.075	0.04	3.9	ZA Arc	0.333	0.17	18.2
	Rellenos	0.248	0.13	9.5				
55.226	S-CEMEN	1.940	2.06	106.0	G-25	0.439	0.47	21.9
	S-C Arc	0.175	0.19	9.5	S-20	0.298	0.32	14.9
	M-10	0.174	0.18	8.7	S-20 Arc	0.125	0.13	6.8
	M-10 Arc	0.075	0.08	4.0	ZA Arc	0.345	0.36	18.5
	Rellenos	0.251	0.26	9.8				
55.714	S-CEMEN	1.940	0.95	107.0	G-25	0.439	0.21	22.1
	S-C Arc	0.175	0.09	9.6	S-20	0.298	0.15	15.0
	M-10	0.174	0.08	8.8	S-20 Arc	0.125	0.06	6.9
	M-10 Arc	0.075	0.04	4.0	ZA Arc	0.349	0.17	18.7
	Rellenos	0.252	0.12	9.9				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
56.807	S-CEMEN	1.939	2.12	109.1	G-25	0.439	0.48	22.6
	S-C Arc	0.175	0.19	9.8	S-20	0.298	0.33	15.4
	M-10	0.174	0.19	9.0	S-20 Arc	0.125	0.14	7.0
	M-10 Arc	0.075	0.08	4.1	ZA Arc	0.369	0.39	19.1
	Rellenos	0.257	0.28	10.2				
57.263	S-CEMEN	1.939	0.88	110.0	G-25	0.439	0.20	22.8
	S-C Arc	0.175	0.08	9.9	S-20	0.298	0.14	15.5
	M-10	0.174	0.08	9.1	S-20 Arc	0.125	0.06	7.1
	M-10 Arc	0.075	0.03	4.2	ZA Arc	0.376	0.17	19.2
	Rellenos	0.258	0.12	10.3				
58.384	S-CEMEN	1.940	2.17	112.1	G-25	0.439	0.49	23.3
	S-C Arc	0.175	0.20	10.1	S-20	0.298	0.33	15.8
	M-10	0.174	0.20	9.3	S-20 Arc	0.125	0.14	7.2
	M-10 Arc	0.075	0.08	4.2	ZA Arc	0.404	0.44	19.7
	Rellenos	0.263	0.29	10.6				
58.808	S-CEMEN	1.940	0.82	113.0	G-25	0.439	0.19	23.5
	S-C Arc	0.175	0.07	10.1	S-20	0.298	0.13	16.0
	M-10	0.174	0.07	9.3	S-20 Arc	0.125	0.05	7.3
	M-10 Arc	0.075	0.03	4.3	ZA Arc	0.414	0.17	19.9
	Rellenos	0.264	0.11	10.7				
59.952	S-CEMEN	1.940	2.22	115.2	G-25	0.439	0.50	24.0
	S-C Arc	0.175	0.20	10.3	S-20	0.298	0.34	16.3
	M-10	0.174	0.20	9.5	S-20 Arc	0.125	0.14	7.4
	M-10 Arc	0.075	0.09	4.4	ZA Arc	0.450	0.49	20.4
	Rellenos	0.264	0.30	11.0				
60.000	S-CEMEN	1.940	0.09	115.3	G-25	0.439	0.02	24.0
	S-C Arc	0.175	0.01	10.4	S-20	0.298	0.01	16.3
	M-10	0.174	0.01	9.6	S-20 Arc	0.125	0.01	7.4
	M-10 Arc	0.075	0.00	4.4	ZA Arc	0.451	0.02	20.4
	Rellenos	0.265	0.01	11.0				
60.355	S-CEMEN	1.940	0.69	116.0	G-25	0.439	0.16	24.2
	S-C Arc	0.175	0.06	10.4	S-20	0.298	0.11	16.4
	M-10	0.174	0.06	9.6	S-20 Arc	0.125	0.04	7.4
	M-10 Arc	0.075	0.03	4.4	ZA Arc	0.460	0.16	20.5
	Rellenos	0.264	0.09	11.1				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
61.513	S-CEMEN	1.940	2.25	118.2	G-25	0.439	0.51	24.7
	S-C Arc	0.175	0.20	10.6	S-20	0.298	0.34	16.8
	M-10	0.174	0.20	9.8	S-20 Arc	0.125	0.14	7.6
	M-10 Arc	0.075	0.09	4.5	ZA Arc	0.492	0.55	21.1
	Rellenos	0.265	0.31	11.4				
61.905	S-CEMEN	1.940	0.76	119.0	G-25	0.439	0.17	24.9
	S-C Arc	0.175	0.07	10.7	S-20	0.298	0.12	16.9
	M-10	0.174	0.07	9.9	S-20 Arc	0.125	0.05	7.6
	M-10 Arc	0.075	0.03	4.5	ZA Arc	0.500	0.19	21.3
	Rellenos	0.264	0.10	11.5				
63.064	S-CEMEN	1.940	2.25	121.2	G-25	0.439	0.51	25.4
	S-C Arc	0.175	0.20	10.9	S-20	0.298	0.35	17.2
	M-10	0.174	0.20	10.1	S-20 Arc	0.125	0.14	7.8
	M-10 Arc	0.075	0.09	4.6	ZA Arc	0.520	0.59	21.9
	Rellenos	0.264	0.31	11.8				
63.452	S-CEMEN	1.939	0.75	122.0	G-25	0.439	0.17	25.5
	S-C Arc	0.175	0.07	11.0	S-20	0.298	0.12	17.3
	M-10	0.174	0.07	10.2	S-20 Arc	0.125	0.05	7.8
	M-10 Arc	0.075	0.03	4.6	ZA Arc	0.523	0.20	22.1
	Rellenos	0.265	0.10	11.9				
64.604	S-CEMEN	1.940	2.23	124.2	G-25	0.439	0.51	26.0
	S-C Arc	0.175	0.20	11.2	S-20	0.298	0.34	17.7
	M-10	0.174	0.20	10.4	S-20 Arc	0.125	0.14	8.0
	M-10 Arc	0.075	0.09	4.7	ZA Arc	0.525	0.60	22.7
	Rellenos	0.264	0.30	12.2				
64.999	S-CEMEN	1.940	0.77	125.0	G-25	0.439	0.17	26.2
	S-C Arc	0.175	0.07	11.2	S-20	0.298	0.12	17.8
	M-10	0.174	0.07	10.4	S-20 Arc	0.125	0.05	8.0
	M-10 Arc	0.075	0.03	4.7	ZA Arc	0.525	0.21	22.9
	Rellenos	0.264	0.10	12.3				
66.130	S-CEMEN	1.940	2.19	127.2	G-25	0.439	0.50	26.7
	S-C Arc	0.175	0.20	11.4	S-20	0.298	0.34	18.1
	M-10	0.174	0.20	10.6	S-20 Arc	0.125	0.14	8.2
	M-10 Arc	0.075	0.08	4.8	ZA Arc	0.525	0.59	23.5
	Rellenos	0.265	0.30	12.6				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
66.547	S-CEMEN	1.940	0.81	128.0	G-25	0.439	0.18	26.9
	S-C Arc	0.175	0.07	11.5	S-20	0.298	0.12	18.3
	M-10	0.174	0.07	10.7	S-20 Arc	0.125	0.05	8.2
	M-10 Arc	0.075	0.03	4.9	ZA Arc	0.525	0.22	23.7
	Rellenos	0.264	0.11	12.8				
67.644	S-CEMEN	1.940	2.13	130.1	G-25	0.439	0.48	27.4
	S-C Arc	0.175	0.19	11.7	S-20	0.298	0.33	18.6
	M-10	0.174	0.19	10.9	S-20 Arc	0.125	0.14	8.4
	M-10 Arc	0.075	0.08	4.9	ZA Arc	0.525	0.58	24.3
	Rellenos	0.264	0.29	13.0				
68.094	S-CEMEN	1.940	0.87	131.0	G-25	0.439	0.20	27.6
	S-C Arc	0.175	0.08	11.8	S-20	0.298	0.13	18.7
	M-10	0.174	0.08	11.0	S-20 Arc	0.125	0.06	8.4
	M-10 Arc	0.075	0.03	5.0	ZA Arc	0.525	0.24	24.5
	Rellenos	0.264	0.12	13.2				
69.142	S-CEMEN	1.940	2.03	133.0	G-25	0.439	0.46	28.0
	S-C Arc	0.175	0.18	12.0	S-20	0.297	0.31	19.0
	M-10	0.174	0.18	11.1	S-20 Arc	0.125	0.13	8.5
	M-10 Arc	0.075	0.08	5.1	ZA Arc	0.525	0.55	25.1
	Rellenos	0.264	0.28	13.4				
69.642	S-CEMEN	1.940	0.97	134.0	G-25	0.439	0.22	28.3
	S-C Arc	0.175	0.09	12.0	S-20	0.298	0.15	19.2
	M-10	0.174	0.09	11.2	S-20 Arc	0.125	0.06	8.6
	M-10 Arc	0.075	0.04	5.1	ZA Arc	0.525	0.26	25.3
	Rellenos	0.264	0.13	13.6				
70.000	S-CEMEN	1.940	0.69	134.7	G-25	0.439	0.16	28.4
	S-C Arc	0.175	0.06	12.1	S-20	0.298	0.11	19.3
	M-10	0.174	0.06	11.3	S-20 Arc	0.125	0.04	8.7
	M-10 Arc	0.075	0.03	5.1	ZA Arc	0.525	0.19	25.5
	Rellenos	0.264	0.09	13.7				
70.624	S-CEMEN	1.940	1.21	135.9	G-25	0.439	0.27	28.7
	S-C Arc	0.175	0.11	12.2	S-20	0.298	0.19	19.5
	M-10	0.174	0.11	11.4	S-20 Arc	0.125	0.08	8.7
	M-10 Arc	0.075	0.05	5.2	ZA Arc	0.525	0.33	25.8
	Rellenos	0.264	0.16	13.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
71.190	S-CEMEN	1.940	1.10	137.0	G-25	0.439	0.25	28.9
	S-C Arc	0.175	0.10	12.3	S-20	0.298	0.17	19.6
	M-10	0.174	0.10	11.5	S-20 Arc	0.125	0.07	8.8
	M-10 Arc	0.075	0.04	5.2	ZA Arc	0.525	0.30	26.1
	Rellenos	0.265	0.15	14.0				
71.213	S-CEMEN	1.940	0.04	137.0	G-25	0.439	0.01	28.9
	S-C Arc	0.175	0.00	12.3	S-20	0.298	0.01	19.7
	M-10	0.174	0.00	11.5	S-20 Arc	0.125	0.00	8.8
	M-10 Arc	0.075	0.00	5.2	ZA Arc	0.525	0.01	26.1
	Rellenos	0.264	0.01	14.0				
72.088	S-CEMEN	1.988	1.72	138.7	G-25	0.439	0.38	29.3
	S-C Arc	0.175	0.15	12.5	S-20	0.298	0.26	19.9
	M-10	0.174	0.15	11.7	S-20 Arc	0.125	0.11	8.9
	M-10 Arc	0.075	0.07	5.3	ZA Arc	0.558	0.47	26.6
	Rellenos	0.265	0.23	14.2				
72.737	S-CEMEN	2.015	1.30	140.0	G-25	0.439	0.28	29.6
	S-C Arc	0.175	0.11	12.6	S-20	0.298	0.19	20.1
	M-10	0.174	0.11	11.8	S-20 Arc	0.125	0.08	9.0
	M-10 Arc	0.075	0.05	5.3	ZA Arc	0.565	0.36	27.0
	Rellenos	0.266	0.17	14.4				
73.536	S-CEMEN	2.046	1.62	141.7	G-25	0.439	0.35	30.0
	S-C Arc	0.175	0.14	12.7	S-20	0.297	0.24	20.3
	M-10	0.174	0.14	11.9	S-20 Arc	0.125	0.10	9.1
	M-10 Arc	0.075	0.06	5.4	ZA Arc	0.572	0.45	27.4
	Rellenos	0.267	0.21	14.6				
74.285	S-CEMEN	2.076	1.54	143.2	G-25	0.439	0.33	30.3
	S-C Arc	0.175	0.13	12.9	S-20	0.298	0.22	20.6
	M-10	0.174	0.13	12.0	S-20 Arc	0.125	0.09	9.2
	M-10 Arc	0.075	0.06	5.4	ZA Arc	0.580	0.43	27.9
	Rellenos	0.267	0.20	14.8				
74.966	S-CEMEN	2.103	1.42	144.6	G-25	0.439	0.30	30.6
	S-C Arc	0.175	0.12	13.0	S-20	0.298	0.20	20.8
	M-10	0.174	0.12	12.2	S-20 Arc	0.125	0.09	9.3
	M-10 Arc	0.075	0.05	5.5	ZA Arc	0.586	0.40	28.3
	Rellenos	0.267	0.18	15.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
75.833	S-CEMEN	2.137	1.84	146.5	G-25	0.439	0.38	31.0
	S-C Arc	0.175	0.15	13.1	S-20	0.297	0.26	21.0
	M-10	0.174	0.15	12.3	S-20 Arc	0.125	0.11	9.4
	M-10 Arc	0.075	0.06	5.6	ZA Arc	0.595	0.51	28.8
	Rellenos	0.267	0.23	15.2				
76.376	S-CEMEN	2.160	1.17	147.6	G-25	0.439	0.24	31.2
	S-C Arc	0.175	0.10	13.2	S-20	0.298	0.16	21.2
	M-10	0.174	0.09	12.4	S-20 Arc	0.125	0.07	9.5
	M-10 Arc	0.075	0.04	5.6	ZA Arc	0.600	0.32	29.1
	Rellenos	0.266	0.14	15.4				
77.295	S-CEMEN	2.196	2.00	149.6	G-25	0.439	0.40	31.6
	S-C Arc	0.175	0.16	13.4	S-20	0.298	0.27	21.5
	M-10	0.174	0.16	12.6	S-20 Arc	0.125	0.11	9.6
	M-10 Arc	0.075	0.07	5.7	ZA Arc	0.609	0.56	29.7
	Rellenos	0.266	0.24	15.6				
77.379	S-CEMEN	2.200	0.18	149.8	G-25	0.439	0.04	31.7
	S-C Arc	0.175	0.01	13.4	S-20	0.297	0.02	21.5
	M-10	0.174	0.01	12.6	S-20 Arc	0.125	0.01	9.6
	M-10 Arc	0.075	0.01	5.7	ZA Arc	0.610	0.05	29.7
	Rellenos	0.266	0.02	15.6				
78.922	S-CEMEN	2.265	3.44	153.3	G-25	0.439	0.68	32.3
	S-C Arc	0.175	0.27	13.7	S-20	0.298	0.46	22.0
	M-10	0.174	0.27	12.8	S-20 Arc	0.125	0.19	9.8
	M-10 Arc	0.075	0.12	5.8	ZA Arc	0.629	0.96	30.7
	Rellenos	0.266	0.41	16.0				
79.104	S-CEMEN	2.273	0.41	153.7	G-25	0.439	0.08	32.4
	S-C Arc	0.175	0.03	13.7	S-20	0.298	0.05	22.0
	M-10	0.174	0.03	12.9	S-20 Arc	0.125	0.02	9.8
	M-10 Arc	0.075	0.01	5.8	ZA Arc	0.632	0.11	30.8
	Rellenos	0.266	0.05	16.1				
80.000	S-CEMEN	2.311	2.05	155.7	G-25	0.439	0.39	32.8
	S-C Arc	0.175	0.16	13.9	S-20	0.297	0.27	22.3
	M-10	0.174	0.16	13.0	S-20 Arc	0.125	0.11	9.9
	M-10 Arc	0.075	0.07	5.9	ZA Arc	0.648	0.57	31.4
	Rellenos	0.266	0.24	16.3				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
80.011	S-CEMEN	2.311	0.03	155.8	G-25	0.439	0.00	32.8
	S-C Arc	0.175	0.00	13.9	S-20	0.297	0.00	22.3
	M-10	0.174	0.00	13.0	S-20 Arc	0.125	0.00	9.9
	M-10 Arc	0.075	0.00	5.9	ZA Arc	0.648	0.01	31.4
	Rellenos	0.266	0.00	16.3				
81.279	S-CEMEN	2.366	2.97	158.7	G-25	0.439	0.56	33.4
	S-C Arc	0.175	0.22	14.1	S-20	0.297	0.38	22.7
	M-10	0.174	0.22	13.3	S-20 Arc	0.125	0.16	10.1
	M-10 Arc	0.075	0.10	6.0	ZA Arc	0.670	0.84	32.2
	Rellenos	0.265	0.34	16.7				
82.513	S-CEMEN	2.414	2.95	161.7	G-25	0.439	0.54	33.9
	S-C Arc	0.175	0.22	14.3	S-20	0.298	0.37	23.0
	M-10	0.174	0.21	13.5	S-20 Arc	0.125	0.15	10.2
	M-10 Arc	0.075	0.09	6.1	ZA Arc	0.690	0.84	33.0
	Rellenos	0.266	0.33	17.0				
82.812	S-CEMEN	2.426	0.72	162.4	G-25	0.439	0.13	34.0
	S-C Arc	0.175	0.05	14.3	S-20	0.298	0.09	23.1
	M-10	0.174	0.05	13.5	S-20 Arc	0.125	0.04	10.3
	M-10 Arc	0.075	0.02	6.1	ZA Arc	0.695	0.21	33.2
	Rellenos	0.265	0.08	17.1				
84.346	S-CEMEN	2.482	3.76	166.2	G-25	0.439	0.67	34.7
	S-C Arc	0.175	0.27	14.6	S-20	0.298	0.46	23.6
	M-10	0.174	0.27	13.8	S-20 Arc	0.125	0.19	10.4
	M-10 Arc	0.075	0.12	6.2	ZA Arc	0.718	1.08	34.3
	Rellenos	0.265	0.41	17.5				
85.880	S-CEMEN	2.533	3.85	170.0	G-25	0.439	0.67	35.4
	S-C Arc	0.175	0.27	14.9	S-20	0.298	0.46	24.0
	M-10	0.174	0.27	14.1	S-20 Arc	0.125	0.19	10.6
	M-10 Arc	0.075	0.11	6.3	ZA Arc	0.739	1.12	35.4
	Rellenos	0.265	0.41	17.9				
87.208	S-CEMEN	2.572	3.39	173.4	G-25	0.439	0.58	36.0
	S-C Arc	0.175	0.23	15.1	S-20	0.298	0.40	24.4
	M-10	0.174	0.23	14.3	S-20 Arc	0.125	0.17	10.8
	M-10 Arc	0.075	0.10	6.4	ZA Arc	0.755	0.99	36.4
	Rellenos	0.265	0.35	18.2				

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PROYECTO : VARIANTE DE OURENSE
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* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
87.413	S-CEMEN	2.578	0.53	173.9	G-25	0.439	0.09	36.1
	S-C Arc	0.175	0.04	15.1	S-20	0.298	0.06	24.5
	M-10	0.174	0.04	14.3	S-20 Arc	0.125	0.03	10.8
	M-10 Arc	0.075	0.02	6.4	ZA Arc	0.758	0.16	36.6
	Rellenos	0.265	0.05	18.3				
88.947	S-CEMEN	2.620	3.99	177.9	G-25	0.439	0.67	36.7
	S-C Arc	0.175	0.27	15.4	S-20	0.298	0.46	24.9
	M-10	0.174	0.27	14.6	S-20 Arc	0.125	0.19	11.0
	M-10 Arc	0.075	0.11	6.5	ZA Arc	0.775	1.18	37.8
	Rellenos	0.264	0.41	18.7				
90.000	S-CEMEN	2.646	2.77	180.7	G-25	0.439	0.46	37.2
	S-C Arc	0.175	0.18	15.6	S-20	0.298	0.31	25.2
	M-10	0.174	0.18	14.8	S-20 Arc	0.125	0.13	11.2
	M-10 Arc	0.075	0.08	6.6	ZA Arc	0.785	0.82	38.6
	Rellenos	0.264	0.28	19.0				
90.480	S-CEMEN	2.657	1.27	182.0	G-25	0.439	0.21	37.4
	S-C Arc	0.175	0.08	15.7	S-20	0.297	0.14	25.4
	M-10	0.174	0.08	14.9	S-20 Arc	0.125	0.06	11.2
	M-10 Arc	0.075	0.04	6.7	ZA Arc	0.790	0.38	39.0
	Rellenos	0.264	0.13	19.1				
92.014	S-CEMEN	2.688	4.10	186.1	G-25	0.439	0.67	38.1
	S-C Arc	0.175	0.27	16.0	S-20	0.298	0.46	25.8
	M-10	0.174	0.27	15.1	S-20 Arc	0.125	0.19	11.4
	M-10 Arc	0.075	0.12	6.8	ZA Arc	0.803	1.22	40.2
	Rellenos	0.264	0.41	19.5				
93.221	S-CEMEN	2.710	3.26	189.3	G-25	0.439	0.53	38.6
	S-C Arc	0.175	0.21	16.2	S-20	0.298	0.36	26.2
	M-10	0.174	0.21	15.3	S-20 Arc	0.125	0.15	11.6
	M-10 Arc	0.075	0.09	6.9	ZA Arc	0.812	0.97	41.2
	Rellenos	0.264	0.32	19.8				
93.548	S-CEMEN	2.716	0.89	190.2	G-25	0.439	0.14	38.8
	S-C Arc	0.175	0.06	16.2	S-20	0.298	0.10	26.3
	M-10	0.174	0.06	15.4	S-20 Arc	0.125	0.04	11.6
	M-10 Arc	0.075	0.02	6.9	ZA Arc	0.814	0.27	41.4
	Rellenos	0.264	0.09	19.9				

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PROYECTO : VARIANTE DE OURENSE
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* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
95.081	S-CEMEN	2.738	4.18	194.4	G-25	0.439	0.67	39.4
	S-C Arc	0.175	0.27	16.5	S-20	0.297	0.46	26.8
	M-10	0.174	0.27	15.7	S-20 Arc	0.125	0.19	11.8
	M-10 Arc	0.075	0.11	7.0	ZA Arc	0.823	1.26	42.7
	Rellenos	0.264	0.40	20.3				
96.614	S-CEMEN	2.754	4.21	198.6	G-25	0.439	0.67	40.1
	S-C Arc	0.175	0.27	16.8	S-20	0.298	0.46	27.2
	M-10	0.174	0.27	15.9	S-20 Arc	0.125	0.19	12.0
	M-10 Arc	0.075	0.11	7.1	ZA Arc	0.830	1.27	44.0
	Rellenos	0.264	0.40	20.7				
98.148	S-CEMEN	2.767	4.23	202.8	G-25	0.439	0.67	40.8
	S-C Arc	0.175	0.27	17.0	S-20	0.298	0.46	27.7
	M-10	0.174	0.27	16.2	S-20 Arc	0.125	0.19	12.2
	M-10 Arc	0.075	0.12	7.2	ZA Arc	0.836	1.28	45.2
	Rellenos	0.264	0.40	21.1				
99.682	S-CEMEN	2.775	4.25	207.1	G-25	0.439	0.67	41.4
	S-C Arc	0.175	0.27	17.3	S-20	0.297	0.46	28.1
	M-10	0.174	0.27	16.5	S-20 Arc	0.125	0.19	12.4
	M-10 Arc	0.075	0.12	7.3	ZA Arc	0.838	1.28	46.5
	Rellenos	0.264	0.40	21.5				
100.000	S-CEMEN	2.776	0.88	208.0	G-25	0.439	0.14	41.6
	S-C Arc	0.175	0.06	17.4	S-20	0.298	0.09	28.2
	M-10	0.174	0.06	16.5	S-20 Arc	0.125	0.04	12.4
	M-10 Arc	0.075	0.02	7.4	ZA Arc	0.837	0.27	46.8
	Rellenos	0.264	0.08	21.6				
100.005	S-CEMEN	2.775	0.01	208.0	G-25	0.439	0.00	41.6
	S-C Arc	0.175	0.00	17.4	S-20	0.297	0.00	28.2
	M-10	0.174	0.00	16.5	S-20 Arc	0.125	0.00	12.4
	M-10 Arc	0.075	0.00	7.4	ZA Arc	0.837	0.00	46.8
	Rellenos	0.264	0.00	21.6				
100.015	S-CEMEN	2.775	0.03	208.0	G-25	0.439	0.00	41.6
	S-C Arc	0.175	0.00	17.4	S-20	0.298	0.00	28.2
	M-10	0.174	0.00	16.5	S-20 Arc	0.125	0.00	12.4
	M-10 Arc	0.075	0.00	7.4	ZA Arc	0.837	0.01	46.8
	Rellenos	0.264	0.00	21.6				

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
101.162	S-CEMEN	2.776	3.18	211.2	G-25	0.439	0.50	42.1
	S-C Arc	0.175	0.20	17.6	S-20	0.298	0.34	28.6
	M-10	0.174	0.20	16.7	S-20 Arc	0.125	0.14	12.6
	M-10 Arc	0.075	0.09	7.5	ZA Arc	0.830	0.96	47.8
	Rellenos	0.264	0.30	21.9				
101.213	S-CEMEN	2.776	0.14	211.3	G-25	0.439	0.02	42.1
	S-C Arc	0.175	0.01	17.6	S-20	0.298	0.02	28.6
	M-10	0.174	0.01	16.7	S-20 Arc	0.125	0.01	12.6
	M-10 Arc	0.075	0.00	7.5	ZA Arc	0.830	0.04	47.8
	Rellenos	0.264	0.01	21.9				
103.174	S-CEMEN	2.758	5.43	216.8	G-25	0.437	0.86	43.0
	S-C Arc	0.175	0.34	17.9	S-20	0.296	0.58	29.2
	M-10	0.173	0.34	17.1	S-20 Arc	0.125	0.25	12.8
	M-10 Arc	0.075	0.15	7.6	ZA Arc	0.800	1.60	49.4
	Rellenos	0.264	0.52	22.5				
105.134	S-CEMEN	2.732	5.38	222.1	G-25	0.435	0.85	43.8
	S-C Arc	0.175	0.34	18.3	S-20	0.294	0.58	29.7
	M-10	0.172	0.34	17.4	S-20 Arc	0.125	0.24	13.0
	M-10 Arc	0.075	0.15	7.8	ZA Arc	0.749	1.52	50.9
	Rellenos	0.264	0.52	23.0				
107.094	S-CEMEN	2.697	5.32	227.5	G-25	0.432	0.85	44.7
	S-C Arc	0.175	0.34	18.6	S-20	0.293	0.58	30.3
	M-10	0.171	0.34	17.7	S-20 Arc	0.125	0.24	13.3
	M-10 Arc	0.075	0.15	7.9	ZA Arc	0.663	1.38	52.3
	Rellenos	0.264	0.52	23.5				
109.053	S-CEMEN	2.653	5.24	232.7	G-25	0.430	0.84	45.5
	S-C Arc	0.175	0.34	18.9	S-20	0.291	0.57	30.9
	M-10	0.170	0.33	18.1	S-20 Arc	0.125	0.24	13.5
	M-10 Arc	0.075	0.15	8.0	ZA Arc	0.496	1.14	53.4
	Rellenos	0.245	0.50	24.0				
110.000	S-CEMEN	2.481	2.43	235.1	G-25	0.429	0.41	45.9
	S-C Arc	0.169	0.16	19.1	S-20	0.290	0.28	31.2
	M-10	0.170	0.16	18.2	S-20 Arc	0.125	0.12	13.7
	M-10 Arc	0.075	0.07	8.1	ZA Arc	0.300	0.38	53.8
	Rellenos	0.150	0.19	24.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
111.012	S-CEMEN	2.601	2.57	237.7	G-25	0.428	0.43	46.4
	S-C Arc	0.175	0.17	19.3	S-20	0.289	0.29	31.5
	M-10	0.169	0.17	18.4	S-20 Arc	0.125	0.13	13.8
	M-10 Arc	0.075	0.08	8.2	ZA Arc	0.724	0.52	54.3
	Rellenos	0.266	0.21	24.4				
112.971	S-CEMEN	2.541	5.04	242.7	G-25	0.426	0.84	47.2
	S-C Arc	0.175	0.34	19.6	S-20	0.288	0.57	32.0
	M-10	0.168	0.33	18.7	S-20 Arc	0.125	0.24	14.0
	M-10 Arc	0.075	0.15	8.3	ZA Arc	0.895	1.59	55.9
	Rellenos	0.271	0.53	24.9				
114.930	S-CEMEN	2.473	4.91	247.6	G-25	0.423	0.83	48.0
	S-C Arc	0.175	0.34	20.0	S-20	0.286	0.56	32.6
	M-10	0.167	0.33	19.1	S-20 Arc	0.125	0.24	14.3
	M-10 Arc	0.075	0.15	8.5	ZA Arc	0.864	1.72	57.6
	Rellenos	0.271	0.53	25.4				
116.888	S-CEMEN	2.398	4.77	252.4	G-25	0.421	0.83	48.9
	S-C Arc	0.175	0.34	20.3	S-20	0.285	0.56	33.1
	M-10	0.167	0.33	19.4	S-20 Arc	0.125	0.24	14.5
	M-10 Arc	0.075	0.15	8.6	ZA Arc	0.829	1.66	59.3
	Rellenos	0.272	0.53	26.0				
118.846	S-CEMEN	2.316	4.62	257.0	G-25	0.419	0.82	49.7
	S-C Arc	0.175	0.34	20.6	S-20	0.283	0.56	33.7
	M-10	0.165	0.33	19.7	S-20 Arc	0.125	0.24	14.8
	M-10 Arc	0.075	0.15	8.8	ZA Arc	0.790	1.58	60.9
	Rellenos	0.272	0.53	26.5				
120.000	S-CEMEN	2.264	2.64	259.7	G-25	0.418	0.48	50.2
	S-C Arc	0.175	0.20	20.8	S-20	0.282	0.33	34.0
	M-10	0.165	0.19	19.9	S-20 Arc	0.125	0.14	14.9
	M-10 Arc	0.075	0.09	8.9	ZA Arc	0.765	0.90	61.8
	Rellenos	0.272	0.31	26.8				
120.804	S-CEMEN	2.226	1.81	261.5	G-25	0.416	0.34	50.5
	S-C Arc	0.175	0.14	21.0	S-20	0.282	0.23	34.3
	M-10	0.164	0.13	20.0	S-20 Arc	0.125	0.10	15.0
	M-10 Arc	0.075	0.06	8.9	ZA Arc	0.748	0.61	62.4
	Rellenos	0.273	0.22	27.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
122.760	S-CEMEN	2.135	4.27	265.7	G-25	0.414	0.81	51.3
	S-C Arc	0.175	0.34	21.3	S-20	0.280	0.55	34.8
	M-10	0.163	0.32	20.4	S-20 Arc	0.125	0.24	15.2
	M-10 Arc	0.075	0.15	9.1	ZA Arc	0.709	1.42	63.8
	Rellenos	0.273	0.53	27.6				
124.716	S-CEMEN	2.050	4.09	269.8	G-25	0.412	0.81	52.1
	S-C Arc	0.175	0.34	21.7	S-20	0.278	0.55	35.4
	M-10	0.163	0.32	20.7	S-20 Arc	0.125	0.24	15.5
	M-10 Arc	0.075	0.15	9.2	ZA Arc	0.685	1.36	65.2
	Rellenos	0.274	0.53	28.1				
126.672	S-CEMEN	1.967	3.93	273.8	G-25	0.410	0.80	52.9
	S-C Arc	0.175	0.34	22.0	S-20	0.277	0.54	35.9
	M-10	0.162	0.32	21.0	S-20 Arc	0.125	0.24	15.7
	M-10 Arc	0.075	0.15	9.4	ZA Arc	0.662	1.32	66.5
	Rellenos	0.275	0.54	28.6				
128.628	S-CEMEN	1.887	3.77	277.5	G-25	0.408	0.80	53.7
	S-C Arc	0.175	0.34	22.4	S-20	0.275	0.54	36.4
	M-10	0.161	0.32	21.3	S-20 Arc	0.125	0.24	16.0
	M-10 Arc	0.075	0.15	9.5	ZA Arc	0.639	1.27	67.8
	Rellenos	0.272	0.54	29.2				
130.000	S-CEMEN	1.846	2.56	280.1	G-25	0.406	0.56	54.3
	S-C Arc	0.175	0.24	22.6	S-20	0.274	0.38	36.8
	M-10	0.160	0.22	21.5	S-20 Arc	0.125	0.17	16.2
	M-10 Arc	0.075	0.10	9.6	ZA Arc	0.600	0.85	68.6
	Rellenos	0.271	0.37	29.6				
130.582	S-CEMEN	1.844	1.07	281.2	G-25	0.406	0.24	54.5
	S-C Arc	0.175	0.10	22.7	S-20	0.273	0.16	37.0
	M-10	0.160	0.09	21.6	S-20 Arc	0.125	0.07	16.2
	M-10 Arc	0.075	0.04	9.7	ZA Arc	0.599	0.35	69.0
	Rellenos	0.270	0.16	29.7				
132.536	S-CEMEN	1.838	3.60	284.8	G-25	0.403	0.79	55.3
	S-C Arc	0.175	0.34	23.0	S-20	0.272	0.53	37.5
	M-10	0.159	0.31	21.9	S-20 Arc	0.125	0.24	16.5
	M-10 Arc	0.075	0.15	9.8	ZA Arc	0.596	1.17	70.1
	Rellenos	0.269	0.53	30.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
134.488	S-CEMEN	1.832	3.58	288.4	G-25	0.401	0.79	56.1
	S-C Arc	0.175	0.34	23.4	S-20	0.271	0.53	38.0
	M-10	0.158	0.31	22.2	S-20 Arc	0.125	0.24	16.7
	M-10 Arc	0.075	0.15	10.0	ZA Arc	0.594	1.16	71.3
	Rellenos	0.267	0.52	30.8				
136.439	S-CEMEN	1.826	3.57	291.9	G-25	0.399	0.78	56.9
	S-C Arc	0.175	0.34	23.7	S-20	0.269	0.53	38.6
	M-10	0.157	0.31	22.6	S-20 Arc	0.125	0.24	17.0
	M-10 Arc	0.075	0.15	10.1	ZA Arc	0.591	1.16	72.4
	Rellenos	0.265	0.52	31.3				
138.391	S-CEMEN	1.819	3.56	295.5	G-25	0.397	0.78	57.6
	S-C Arc	0.175	0.34	24.1	S-20	0.268	0.52	39.1
	M-10	0.156	0.31	22.9	S-20 Arc	0.125	0.24	17.2
	M-10 Arc	0.075	0.15	10.2	ZA Arc	0.589	1.15	73.6
	Rellenos	0.263	0.52	31.8				
140.000	S-CEMEN	1.814	2.92	298.4	G-25	0.395	0.64	58.3
	S-C Arc	0.175	0.28	24.3	S-20	0.266	0.43	39.5
	M-10	0.155	0.25	23.1	S-20 Arc	0.125	0.20	17.4
	M-10 Arc	0.075	0.12	10.4	ZA Arc	0.587	0.95	74.5
	Rellenos	0.262	0.42	32.2				
140.341	S-CEMEN	1.813	0.62	299.0	G-25	0.395	0.13	58.4
	S-C Arc	0.175	0.06	24.4	S-20	0.266	0.09	39.6
	M-10	0.155	0.05	23.2	S-20 Arc	0.125	0.04	17.4
	M-10 Arc	0.075	0.03	10.4	ZA Arc	0.586	0.20	74.7
	Rellenos	0.261	0.09	32.3				
142.290	S-CEMEN	1.807	3.53	302.5	G-25	0.393	0.77	59.2
	S-C Arc	0.175	0.34	24.7	S-20	0.265	0.52	40.1
	M-10	0.154	0.30	23.5	S-20 Arc	0.125	0.24	17.7
	M-10 Arc	0.075	0.15	10.5	ZA Arc	0.584	1.14	75.9
	Rellenos	0.259	0.51	32.8				
144.237	S-CEMEN	1.801	3.51	306.1	G-25	0.391	0.76	59.9
	S-C Arc	0.175	0.34	25.1	S-20	0.263	0.51	40.6
	M-10	0.153	0.30	23.8	S-20 Arc	0.125	0.24	17.9
	M-10 Arc	0.075	0.15	10.7	ZA Arc	0.582	1.14	77.0
	Rellenos	0.258	0.50	33.3				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
146.184	S-CEMEN	1.796	3.50	309.6	G-25	0.389	0.76	60.7
	S-C Arc	0.175	0.34	25.4	S-20	0.262	0.51	41.1
	M-10	0.152	0.30	24.1	S-20 Arc	0.125	0.24	18.2
	M-10 Arc	0.075	0.15	10.8	ZA Arc	0.580	1.13	78.1
	Rellenos	0.256	0.50	33.8				
148.130	S-CEMEN	1.790	3.49	313.1	G-25	0.387	0.75	61.5
	S-C Arc	0.175	0.34	25.8	S-20	0.260	0.51	41.7
	M-10	0.151	0.30	24.4	S-20 Arc	0.125	0.24	18.4
	M-10 Arc	0.075	0.15	11.0	ZA Arc	0.577	1.13	79.3
	Rellenos	0.254	0.50	34.3				
150.000	S-CEMEN	1.785	3.34	316.4	G-25	0.385	0.72	62.2
	S-C Arc	0.175	0.33	26.1	S-20	0.259	0.49	42.1
	M-10	0.151	0.28	24.6	S-20 Arc	0.125	0.23	18.7
	M-10 Arc	0.075	0.14	11.1	ZA Arc	0.575	1.08	80.4
	Rellenos	0.252	0.47	34.8				
150.064	S-CEMEN	1.784	0.11	316.5	G-25	0.385	0.02	62.2
	S-C Arc	0.175	0.01	26.1	S-20	0.259	0.02	42.2
	M-10	0.151	0.01	24.6	S-20 Arc	0.125	0.01	18.7
	M-10 Arc	0.075	0.00	11.1	ZA Arc	0.575	0.04	80.4
	Rellenos	0.253	0.02	34.8				
150.213	S-CEMEN	1.784	0.27	316.8	G-25	0.385	0.06	62.3
	S-C Arc	0.175	0.03	26.1	S-20	0.259	0.04	42.2
	M-10	0.151	0.02	24.7	S-20 Arc	0.125	0.02	18.7
	M-10 Arc	0.075	0.01	11.1	ZA Arc	0.575	0.09	80.5
	Rellenos	0.252	0.04	34.8				
160.000	S-CEMEN	1.784	17.46	334.2	G-25	0.385	3.76	66.0
	S-C Arc	0.175	1.71	27.8	S-20	0.259	2.53	44.7
	M-10	0.151	1.48	26.1	S-20 Arc	0.125	1.22	19.9
	M-10 Arc	0.075	0.73	11.9	ZA Arc	0.575	5.63	86.1
	Rellenos	0.252	2.47	37.3				
166.844	S-CEMEN	1.784	12.21	346.4	G-25	0.385	2.63	68.7
	S-C Arc	0.175	1.20	29.0	S-20	0.259	1.77	46.5
	M-10	0.150	1.03	27.2	S-20 Arc	0.125	0.86	20.8
	M-10 Arc	0.075	0.51	12.4	ZA Arc	0.539	3.81	89.9
	Rellenos	0.252	1.73	39.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
166.854	S-CEMEN	1.783	0.02	346.5	G-25	0.385	0.00	68.7
	S-C Arc	0.175	0.00	29.0	S-20	0.259	0.00	46.5
	M-10	0.150	0.00	27.2	S-20 Arc	0.125	0.00	20.8
	M-10 Arc	0.075	0.00	12.4	ZA Arc	0.397	0.00	89.9
	Rellenos	0.248	0.00	39.0				
169.621	S-CEMEN	1.784	4.94	351.4	G-25	0.385	1.06	69.7
	S-C Arc	0.175	0.48	29.5	S-20	0.259	0.72	47.2
	M-10	0.151	0.42	27.6	S-20 Arc	0.125	0.35	21.1
	M-10 Arc	0.075	0.21	12.6	ZA Arc	0.397	1.10	91.0
	Rellenos	0.248	0.69	39.7				
170.000	S-CEMEN	1.784	0.68	352.1	G-25	0.385	0.15	69.9
	S-C Arc	0.175	0.07	29.6	S-20	0.259	0.10	47.3
	M-10	0.151	0.06	27.6	S-20 Arc	0.125	0.05	21.2
	M-10 Arc	0.075	0.03	12.6	ZA Arc	0.396	0.15	91.2
	Rellenos	0.247	0.09	39.8				
172.394	S-CEMEN	1.784	4.27	356.3	G-25	0.384	0.92	70.8
	S-C Arc	0.175	0.42	30.0	S-20	0.259	0.62	47.9
	M-10	0.151	0.36	28.0	S-20 Arc	0.125	0.30	21.5
	M-10 Arc	0.075	0.18	12.8	ZA Arc	0.365	0.91	92.1
	Rellenos	0.240	0.58	40.4				
175.165	S-CEMEN	1.783	4.94	361.3	G-25	0.384	1.07	71.9
	S-C Arc	0.175	0.48	30.5	S-20	0.259	0.72	48.7
	M-10	0.151	0.42	28.4	S-20 Arc	0.125	0.35	21.8
	M-10 Arc	0.075	0.21	13.0	ZA Arc	0.365	1.01	93.1
	Rellenos	0.241	0.67	41.1				
177.938	S-CEMEN	1.783	4.95	366.2	G-25	0.384	1.07	72.9
	S-C Arc	0.175	0.49	31.0	S-20	0.259	0.72	49.4
	M-10	0.151	0.42	28.8	S-20 Arc	0.125	0.35	22.1
	M-10 Arc	0.075	0.21	13.2	ZA Arc	0.365	1.01	94.1
	Rellenos	0.240	0.67	41.7				
180.000	S-CEMEN	1.783	3.68	369.9	G-25	0.384	0.79	73.7
	S-C Arc	0.175	0.36	31.3	S-20	0.259	0.53	49.9
	M-10	0.151	0.31	29.2	S-20 Arc	0.125	0.26	22.4
	M-10 Arc	0.075	0.15	13.4	ZA Arc	0.362	0.75	94.9
	Rellenos	0.240	0.50	42.2				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
180.710	S-CEMEN	1.783	1.27	371.2	G-25	0.384	0.27	74.0
	S-C Arc	0.175	0.12	31.5	S-20	0.259	0.18	50.1
	M-10	0.150	0.11	29.3	S-20 Arc	0.125	0.09	22.5
	M-10 Arc	0.075	0.05	13.4	ZA Arc	0.365	0.26	95.1
	Rellenos	0.240	0.17	42.4				
183.482	S-CEMEN	1.783	4.94	376.1	G-25	0.384	1.07	75.1
	S-C Arc	0.175	0.49	32.0	S-20	0.259	0.72	50.8
	M-10	0.151	0.42	29.7	S-20 Arc	0.125	0.35	22.8
	M-10 Arc	0.075	0.21	13.6	ZA Arc	0.365	1.01	96.1
	Rellenos	0.240	0.67	43.1				
186.255	S-CEMEN	1.783	4.94	381.1	G-25	0.384	1.07	76.1
	S-C Arc	0.175	0.49	32.4	S-20	0.259	0.72	51.5
	M-10	0.151	0.42	30.1	S-20 Arc	0.125	0.35	23.2
	M-10 Arc	0.075	0.21	13.8	ZA Arc	0.365	1.01	97.1
	Rellenos	0.241	0.67	43.7				
189.027	S-CEMEN	1.783	4.94	386.0	G-25	0.384	1.07	77.2
	S-C Arc	0.175	0.49	32.9	S-20	0.259	0.72	52.2
	M-10	0.151	0.42	30.5	S-20 Arc	0.125	0.35	23.5
	M-10 Arc	0.075	0.21	14.0	ZA Arc	0.365	1.01	98.1
	Rellenos	0.240	0.67	44.4				
190.000	S-CEMEN	1.783	1.73	387.7	G-25	0.384	0.37	77.6
	S-C Arc	0.175	0.17	33.1	S-20	0.259	0.25	52.5
	M-10	0.151	0.15	30.7	S-20 Arc	0.125	0.12	23.7
	M-10 Arc	0.075	0.07	14.1	ZA Arc	0.362	0.35	98.5
	Rellenos	0.240	0.23	44.6				
191.798	S-CEMEN	1.783	3.21	390.9	G-25	0.384	0.69	78.3
	S-C Arc	0.175	0.31	33.4	S-20	0.259	0.46	53.0
	M-10	0.151	0.27	30.9	S-20 Arc	0.125	0.22	23.9
	M-10 Arc	0.075	0.13	14.3	ZA Arc	0.365	0.65	99.2
	Rellenos	0.240	0.43	45.1				
200.000	S-CEMEN	1.783	14.62	405.6	G-25	0.384	3.15	81.4
	S-C Arc	0.175	1.44	34.8	S-20	0.259	2.12	55.1
	M-10	0.151	1.24	32.2	S-20 Arc	0.125	1.02	24.9
	M-10 Arc	0.075	0.62	14.9	ZA Arc	0.483	3.48	102.6
	Rellenos	0.245	1.99	47.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
205.133	S-CEMEN	1.783	9.15	414.7	G-25	0.384	1.97	83.4
	S-C Arc	0.175	0.90	35.7	S-20	0.258	1.33	56.4
	M-10	0.151	0.77	32.9	S-20 Arc	0.125	0.64	25.5
	M-10 Arc	0.075	0.38	15.3	ZA Arc	0.507	2.54	105.2
	Rellenos	0.245	1.26	48.3				
210.000	S-CEMEN	1.782	8.68	423.4	G-25	0.384	1.87	85.3
	S-C Arc	0.175	0.85	36.6	S-20	0.258	1.26	57.7
	M-10	0.151	0.73	33.7	S-20 Arc	0.125	0.61	26.2
	M-10 Arc	0.075	0.37	15.6	ZA Arc	0.505	2.46	107.6
	Rellenos	0.245	1.19	49.5				
219.995	S-CEMEN	1.782	17.81	441.2	G-25	0.384	3.84	89.1
	S-C Arc	0.175	1.75	38.3	S-20	0.258	2.58	60.2
	M-10	0.150	1.50	35.2	S-20 Arc	0.125	1.25	27.4
	M-10 Arc	0.075	0.75	16.4	ZA Arc	0.507	5.06	112.7
	Rellenos	0.245	2.45	52.0				
220.000	S-CEMEN	1.783	0.01	441.2	G-25	0.384	0.00	89.1
	S-C Arc	0.175	0.00	38.3	S-20	0.258	0.00	60.2
	M-10	0.150	0.00	35.2	S-20 Arc	0.125	0.00	27.4
	M-10 Arc	0.075	0.00	16.4	ZA Arc	0.507	0.00	112.7
	Rellenos	0.245	0.00	52.0				
220.005	S-CEMEN	1.783	0.01	441.2	G-25	0.384	0.00	89.1
	S-C Arc	0.175	0.00	38.3	S-20	0.258	0.00	60.2
	M-10	0.150	0.00	35.2	S-20 Arc	0.125	0.00	27.4
	M-10 Arc	0.075	0.00	16.4	ZA Arc	0.507	0.00	112.7
	Rellenos	0.245	0.00	52.0				
230.000	S-CEMEN	1.782	17.81	459.0	G-25	0.384	3.84	92.9
	S-C Arc	0.175	1.75	40.1	S-20	0.258	2.58	62.8
	M-10	0.150	1.50	36.7	S-20 Arc	0.125	1.25	28.6
	M-10 Arc	0.075	0.75	17.1	ZA Arc	0.507	5.06	117.8
	Rellenos	0.245	2.45	54.4				
240.000	S-CEMEN	1.782	17.82	476.9	G-25	0.384	3.84	96.8
	S-C Arc	0.175	1.75	41.8	S-20	0.258	2.58	65.4
	M-10	0.150	1.50	38.2	S-20 Arc	0.125	1.25	29.9
	M-10 Arc	0.075	0.75	17.9	ZA Arc	0.507	5.07	122.8
	Rellenos	0.245	2.45	56.8				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
250.000	S-CEMEN	1.782	17.82	494.7	G-25	0.384	3.84	100.6
	S-C Arc	0.175	1.75	43.6	S-20	0.258	2.58	68.0
	M-10	0.150	1.50	39.7	S-20 Arc	0.125	1.25	31.1
	M-10 Arc	0.075	0.75	18.6	ZA Arc	0.507	5.07	127.9
	Rellenos	0.245	2.45	59.3				
260.000	S-CEMEN	1.781	17.82	512.5	G-25	0.384	3.84	104.4
	S-C Arc	0.175	1.75	45.3	S-20	0.258	2.58	70.6
	M-10	0.150	1.50	41.2	S-20 Arc	0.125	1.25	32.4
	M-10 Arc	0.075	0.75	19.4	ZA Arc	0.507	5.07	133.0
	Rellenos	0.245	2.45	61.7				
263.874	S-CEMEN	1.781	6.90	519.4	G-25	0.384	1.49	105.9
	S-C Arc	0.175	0.68	46.0	S-20	0.258	1.00	71.6
	M-10	0.150	0.58	41.8	S-20 Arc	0.125	0.48	32.9
	M-10 Arc	0.075	0.29	19.7	ZA Arc	0.507	1.96	134.9
	Rellenos	0.245	0.95	62.7				
270.000	S-CEMEN	1.781	10.91	530.3	G-25	0.384	2.35	108.3
	S-C Arc	0.175	1.07	47.1	S-20	0.258	1.58	73.1
	M-10	0.150	0.92	42.7	S-20 Arc	0.125	0.77	33.6
	M-10 Arc	0.075	0.46	20.1	ZA Arc	0.512	3.12	138.0
	Rellenos	0.250	1.52	64.2				
280.000	S-CEMEN	1.781	17.81	548.1	G-25	0.383	3.84	112.1
	S-C Arc	0.175	1.75	48.8	S-20	0.258	2.58	75.7
	M-10	0.150	1.50	44.2	S-20 Arc	0.125	1.25	34.9
	M-10 Arc	0.075	0.75	20.9	ZA Arc	0.521	5.16	143.2
	Rellenos	0.260	2.55	66.8				
280.000	S-CEMEN	1.781	0.00	548.1	G-25	0.383	0.00	112.1
	S-C Arc	0.175	0.00	48.8	S-20	0.258	0.00	75.7
	M-10	0.150	0.00	44.2	S-20 Arc	0.125	0.00	34.9
	M-10 Arc	0.075	0.00	20.9	ZA Arc	0.521	0.00	143.2
	Rellenos	0.260	0.00	66.8				
281.105	S-CEMEN	1.791	1.97	550.1	G-25	0.384	0.42	112.5
	S-C Arc	0.175	0.19	49.0	S-20	0.258	0.29	76.0
	M-10	0.150	0.17	44.4	S-20 Arc	0.125	0.14	35.0
	M-10 Arc	0.075	0.08	20.9	ZA Arc	0.489	0.56	143.8
	Rellenos	0.248	0.28	67.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
283.706	S-CEMEN	1.822	4.70	554.8	G-25	0.386	1.00	113.5
	S-C Arc	0.175	0.46	49.5	S-20	0.260	0.67	76.7
	M-10	0.151	0.39	44.8	S-20 Arc	0.125	0.33	35.4
	M-10 Arc	0.072	0.19	21.1	ZA Arc	0.412	1.17	144.9
	Rellenos	0.222	0.61	67.7				
286.302	S-CEMEN	1.946	4.89	559.7	G-25	0.397	1.02	114.6
	S-C Arc	0.175	0.45	49.9	S-20	0.267	0.68	77.4
	M-10	0.156	0.40	45.2	S-20 Arc	0.125	0.32	35.7
	M-10 Arc	0.067	0.18	21.3	ZA Arc	0.358	1.00	145.9
	Rellenos	0.198	0.54	68.2				
288.886	S-CEMEN	2.111	5.24	564.9	G-25	0.415	1.05	115.6
	S-C Arc	0.175	0.45	50.4	S-20	0.280	0.71	78.1
	M-10	0.164	0.41	45.6	S-20 Arc	0.122	0.32	36.0
	M-10 Arc	0.062	0.17	21.5	ZA Arc	0.299	0.85	146.8
	Rellenos	0.174	0.48	68.7				
290.000	S-CEMEN	2.192	2.40	567.3	G-25	0.426	0.47	116.1
	S-C Arc	0.175	0.19	50.6	S-20	0.289	0.32	78.4
	M-10	0.169	0.19	45.8	S-20 Arc	0.121	0.14	36.1
	M-10 Arc	0.060	0.07	21.6	ZA Arc	0.278	0.32	147.1
	Rellenos	0.163	0.19	68.9				
290.267	S-CEMEN	2.208	0.59	567.9	G-25	0.429	0.11	116.2
	S-C Arc	0.175	0.05	50.6	S-20	0.290	0.08	78.5
	M-10	0.170	0.05	45.8	S-20 Arc	0.120	0.03	36.2
	M-10 Arc	0.060	0.02	21.6	ZA Arc	0.276	0.07	147.2
	Rellenos	0.161	0.04	68.9				
290.277	S-CEMEN	2.208	0.02	567.9	G-25	0.429	0.00	116.2
	S-C Arc	0.175	0.00	50.6	S-20	0.291	0.00	78.5
	M-10	0.170	0.00	45.8	S-20 Arc	0.120	0.00	36.2
	M-10 Arc	0.060	0.00	21.6	ZA Arc	0.276	0.00	147.2
	Rellenos	0.161	0.00	68.9				
291.454	S-CEMEN	2.270	2.64	570.6	G-25	0.441	0.51	116.7
	S-C Arc	0.168	0.20	50.8	S-20	0.299	0.35	78.8
	M-10	0.175	0.20	46.0	S-20 Arc	0.118	0.14	36.3
	M-10 Arc	0.057	0.07	21.6	ZA Arc	0.281	0.33	147.5
	Rellenos	0.157	0.19	69.1				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
294.001	S-CEMEN	2.445	6.01	576.6	G-25	0.474	1.17	117.9
	S-C Arc	0.152	0.41	51.3	S-20	0.323	0.79	79.6
	M-10	0.189	0.46	46.5	S-20 Arc	0.109	0.29	36.6
	M-10 Arc	0.052	0.14	21.8	ZA Arc	0.310	0.75	148.3
	Rellenos	0.154	0.40	69.5				
296.525	S-CEMEN	2.664	6.45	583.0	G-25	0.514	1.25	119.1
	S-C Arc	0.137	0.36	51.6	S-20	0.351	0.85	80.5
	M-10	0.206	0.50	47.0	S-20 Arc	0.099	0.26	36.9
	M-10 Arc	0.047	0.12	21.9	ZA Arc	0.338	0.82	149.1
	Rellenos	0.151	0.39	69.9				
299.024	S-CEMEN	2.920	6.98	590.0	G-25	0.561	1.34	120.5
	S-C Arc	0.121	0.32	51.9	S-20	0.385	0.92	81.4
	M-10	0.226	0.54	47.5	S-20 Arc	0.089	0.24	37.1
	M-10 Arc	0.042	0.11	22.0	ZA Arc	0.367	0.88	150.0
	Rellenos	0.148	0.37	70.3				
300.000	S-CEMEN	3.036	2.91	592.9	G-25	0.582	0.56	121.0
	S-C Arc	0.115	0.12	52.1	S-20	0.399	0.38	81.8
	M-10	0.235	0.23	47.7	S-20 Arc	0.085	0.09	37.2
	M-10 Arc	0.040	0.04	22.1	ZA Arc	0.379	0.36	150.3
	Rellenos	0.147	0.14	70.4				
300.183	S-CEMEN	3.057	0.56	593.5	G-25	0.586	0.11	121.1
	S-C Arc	0.114	0.02	52.1	S-20	0.402	0.07	81.8
	M-10	0.237	0.04	47.8	S-20 Arc	0.084	0.02	37.2
	M-10 Arc	0.040	0.01	22.1	ZA Arc	0.381	0.07	150.4
	Rellenos	0.147	0.03	70.4				
301.494	S-CEMEN	3.214	4.11	597.6	G-25	0.614	0.79	121.9
	S-C Arc	0.106	0.14	52.2	S-20	0.422	0.54	82.4
	M-10	0.249	0.32	48.1	S-20 Arc	0.079	0.11	37.3
	M-10 Arc	0.037	0.05	22.1	ZA Arc	0.397	0.51	150.9
	Rellenos	0.145	0.19	70.6				
303.938	S-CEMEN	3.549	8.27	605.8	G-25	0.672	1.57	123.5
	S-C Arc	0.091	0.24	52.5	S-20	0.464	1.08	83.5
	M-10	0.274	0.64	48.7	S-20 Arc	0.069	0.18	37.5
	M-10 Arc	0.032	0.09	22.2	ZA Arc	0.426	1.01	151.9
	Rellenos	0.142	0.35	71.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
305.069	S-CEMEN	3.716	4.11	609.9	G-25	0.702	0.78	124.3
	S-C Arc	0.084	0.10	52.6	S-20	0.485	0.54	84.0
	M-10	0.286	0.32	49.0	S-20 Arc	0.064	0.07	37.6
	M-10 Arc	0.030	0.04	22.2	ZA Arc	0.440	0.49	152.4
	Rellenos	0.141	0.16	71.1				
307.278	S-CEMEN	4.011	8.53	618.5	G-25	0.753	1.61	125.9
	S-C Arc	0.070	0.17	52.7	S-20	0.522	1.11	85.1
	M-10	0.309	0.66	49.7	S-20 Arc	0.054	0.13	37.7
	M-10 Arc	0.026	0.06	22.3	ZA Arc	0.465	1.00	153.4
	Rellenos	0.138	0.31	71.4				
309.509	S-CEMEN	4.324	9.30	627.8	G-25	0.800	1.73	127.6
	S-C Arc	0.064	0.15	52.9	S-20	0.556	1.20	86.3
	M-10	0.329	0.71	50.4	S-20 Arc	0.049	0.11	37.8
	M-10 Arc	0.025	0.06	22.4	ZA Arc	0.488	1.06	154.5
	Rellenos	0.136	0.31	71.7				
310.000	S-CEMEN	4.391	2.14	629.9	G-25	0.810	0.40	128.0
	S-C Arc	0.063	0.03	52.9	S-20	0.563	0.27	86.6
	M-10	0.333	0.16	50.6	S-20 Arc	0.049	0.02	37.8
	M-10 Arc	0.025	0.01	22.4	ZA Arc	0.492	0.24	154.7
	Rellenos	0.135	0.07	71.8				
310.000	S-CEMEN	4.391	0.00	629.9	G-25	0.810	0.00	128.0
	S-C Arc	0.063	0.00	52.9	S-20	0.563	0.00	86.6
	M-10	0.333	0.00	50.6	S-20 Arc	0.049	0.00	37.8
	M-10 Arc	0.025	0.00	22.4	ZA Arc	0.492	0.00	154.7
	Rellenos	0.135	0.00	71.8				
311.481	S-CEMEN	4.600	6.66	636.6	G-25	0.838	1.22	129.2
	S-C Arc	0.063	0.09	53.0	S-20	0.583	0.85	87.4
	M-10	0.345	0.50	51.1	S-20 Arc	0.049	0.07	37.9
	M-10 Arc	0.025	0.04	22.4	ZA Arc	0.506	0.74	155.4
	Rellenos	0.134	0.20	72.0				
311.762	S-CEMEN	4.639	1.30	637.9	G-25	0.843	0.24	129.5
	S-C Arc	0.063	0.02	53.0	S-20	0.587	0.16	87.6
	M-10	0.347	0.10	51.2	S-20 Arc	0.049	0.01	37.9
	M-10 Arc	0.025	0.01	22.4	ZA Arc	0.508	0.14	155.6
	Rellenos	0.133	0.04	72.0				

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
312.874	S-CEMEN	4.774	5.23	643.1	G-25	0.862	0.95	130.4
	S-C Arc	0.064	0.07	53.1	S-20	0.600	0.66	88.3
	M-10	0.355	0.39	51.6	S-20 Arc	0.049	0.05	38.0
	M-10 Arc	0.025	0.03	22.4	ZA Arc	0.516	0.57	156.2
	Rellenos	0.132	0.15	72.2				
314.038	S-CEMEN	4.913	5.64	648.7	G-25	0.882	1.02	131.4
	S-C Arc	0.064	0.07	53.2	S-20	0.614	0.71	89.0
	M-10	0.364	0.42	52.0	S-20 Arc	0.049	0.06	38.0
	M-10 Arc	0.025	0.03	22.5	ZA Arc	0.523	0.60	156.8
	Rellenos	0.132	0.15	72.3				
316.335	S-CEMEN	5.155	11.56	660.3	G-25	0.916	2.06	133.5
	S-C Arc	0.064	0.15	53.3	S-20	0.638	1.44	90.4
	M-10	0.378	0.85	52.8	S-20 Arc	0.049	0.11	38.1
	M-10 Arc	0.026	0.06	22.5	ZA Arc	0.535	1.21	158.0
	Rellenos	0.130	0.30	72.6				
318.648	S-CEMEN	5.361	12.16	672.5	G-25	0.945	2.15	135.6
	S-C Arc	0.064	0.15	53.5	S-20	0.659	1.50	91.9
	M-10	0.391	0.89	53.7	S-20 Arc	0.049	0.11	38.3
	M-10 Arc	0.025	0.06	22.6	ZA Arc	0.545	1.25	159.2
	Rellenos	0.130	0.30	73.0				
320.000	S-CEMEN	5.460	7.32	679.8	G-25	0.959	1.29	136.9
	S-C Arc	0.064	0.09	53.5	S-20	0.669	0.90	92.8
	M-10	0.397	0.53	54.3	S-20 Arc	0.049	0.07	38.3
	M-10 Arc	0.025	0.03	22.6	ZA Arc	0.549	0.74	160.0
	Rellenos	0.130	0.18	73.1				
320.980	S-CEMEN	5.532	5.39	685.2	G-25	0.969	0.94	137.9
	S-C Arc	0.064	0.06	53.6	S-20	0.676	0.66	93.5
	M-10	0.401	0.39	54.7	S-20 Arc	0.049	0.05	38.4
	M-10 Arc	0.025	0.02	22.6	ZA Arc	0.552	0.54	160.5
	Rellenos	0.130	0.13	73.3				
322.083	S-CEMEN	5.593	6.14	691.3	G-25	0.978	1.07	138.9
	S-C Arc	0.064	0.07	53.7	S-20	0.683	0.75	94.2
	M-10	0.405	0.44	55.1	S-20 Arc	0.049	0.05	38.4
	M-10 Arc	0.026	0.03	22.7	ZA Arc	0.555	0.61	161.1
	Rellenos	0.129	0.14	73.4				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
323.325	S-CEMEN	5.663	6.99	698.3	G-25	0.988	1.22	140.2
	S-C Arc	0.064	0.08	53.8	S-20	0.690	0.85	95.1
	M-10	0.409	0.51	55.6	S-20 Arc	0.049	0.06	38.5
	M-10 Arc	0.026	0.03	22.7	ZA Arc	0.558	0.69	161.8
	Rellenos	0.129	0.16	73.6				
325.683	S-CEMEN	5.753	13.46	711.7	G-25	1.001	2.35	142.5
	S-C Arc	0.064	0.15	53.9	S-20	0.700	1.64	96.7
	M-10	0.415	0.97	56.6	S-20 Arc	0.049	0.12	38.6
	M-10 Arc	0.026	0.06	22.8	ZA Arc	0.561	1.32	163.1
	Rellenos	0.128	0.30	73.9				
328.051	S-CEMEN	5.800	13.68	725.4	G-25	1.010	2.38	144.9
	S-C Arc	0.064	0.15	54.1	S-20	0.706	1.66	98.4
	M-10	0.419	0.99	57.6	S-20 Arc	0.049	0.12	38.7
	M-10 Arc	0.026	0.06	22.8	ZA Arc	0.563	1.33	164.5
	Rellenos	0.128	0.30	74.2				
329.990	S-CEMEN	5.803	11.25	736.7	G-25	1.013	1.96	146.9
	S-C Arc	0.064	0.12	54.2	S-20	0.707	1.37	99.7
	M-10	0.420	0.81	58.4	S-20 Arc	0.049	0.10	38.8
	M-10 Arc	0.026	0.05	22.9	ZA Arc	0.562	1.09	165.5
	Rellenos	0.127	0.25	74.4				
330.000	S-CEMEN	5.802	0.06	736.7	G-25	1.012	0.01	146.9
	S-C Arc	0.064	0.00	54.2	S-20	0.707	0.01	99.7
	M-10	0.420	0.00	58.4	S-20 Arc	0.049	0.00	38.8
	M-10 Arc	0.026	0.00	22.9	ZA Arc	0.562	0.01	165.5
	Rellenos	0.127	0.00	74.4				
330.429	S-CEMEN	5.803	2.49	739.2	G-25	1.013	0.43	147.3
	S-C Arc	0.064	0.03	54.2	S-20	0.708	0.30	100.0
	M-10	0.420	0.18	58.6	S-20 Arc	0.049	0.02	38.8
	M-10 Arc	0.026	0.01	22.9	ZA Arc	0.562	0.24	165.8
	Rellenos	0.126	0.05	74.5				
332.304	S-CEMEN	5.785	10.86	750.1	G-25	1.013	1.90	149.2
	S-C Arc	0.064	0.12	54.3	S-20	0.707	1.33	101.4
	M-10	0.420	0.79	59.3	S-20 Arc	0.049	0.09	38.9
	M-10 Arc	0.026	0.05	22.9	ZA Arc	0.560	1.05	166.8
	Rellenos	0.126	0.24	74.7				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
334.397	S-CEMEN	5.761	12.08	762.2	G-25	1.013	2.12	151.3
	S-C Arc	0.064	0.13	54.5	S-20	0.707	1.48	102.9
	M-10	0.420	0.88	60.2	S-20 Arc	0.049	0.10	39.0
	M-10 Arc	0.026	0.05	23.0	ZA Arc	0.557	1.17	168.0
	Rellenos	0.126	0.26	75.0				
340.000	S-CEMEN	5.642	31.95	794.1	G-25	1.007	5.66	157.0
	S-C Arc	0.064	0.36	54.8	S-20	0.703	3.95	106.8
	M-10	0.417	2.35	62.6	S-20 Arc	0.049	0.28	39.3
	M-10 Arc	0.026	0.15	23.1	ZA Arc	0.547	3.09	171.1
	Rellenos	0.124	0.70	75.7				
347.243	S-CEMEN	5.470	40.24	834.4	G-25	0.998	7.26	164.2
	S-C Arc	0.064	0.47	55.3	S-20	0.697	5.07	111.9
	M-10	0.413	3.01	65.6	S-20 Arc	0.049	0.36	39.7
	M-10 Arc	0.027	0.19	23.3	ZA Arc	0.531	3.91	175.0
	Rellenos	0.122	0.89	76.6				
350.000	S-CEMEN	5.394	14.98	849.3	G-25	0.995	2.75	167.0
	S-C Arc	0.064	0.18	55.5	S-20	0.695	1.92	113.8
	M-10	0.412	1.14	66.7	S-20 Arc	0.050	0.14	39.8
	M-10 Arc	0.027	0.07	23.4	ZA Arc	0.525	1.46	176.5
	Rellenos	0.121	0.33	76.9				
360.000	S-CEMEN	5.105	52.49	901.8	G-25	0.983	9.89	176.9
	S-C Arc	0.065	0.65	56.1	S-20	0.686	6.91	120.7
	M-10	0.407	4.10	70.8	S-20 Arc	0.050	0.50	40.3
	M-10 Arc	0.028	0.27	23.7	ZA Arc	0.479	5.02	181.5
	Rellenos	0.118	1.19	78.1				
364.397	S-CEMEN	4.967	22.14	924.0	G-25	0.978	4.31	181.2
	S-C Arc	0.065	0.29	56.4	S-20	0.682	3.01	123.7
	M-10	0.405	1.79	72.6	S-20 Arc	0.050	0.22	40.5
	M-10 Arc	0.028	0.12	23.8	ZA Arc	0.345	1.81	183.3
	Rellenos	0.116	0.52	78.6				
364.432	S-CEMEN	4.966	0.17	924.1	G-25	0.978	0.03	181.2
	S-C Arc	0.065	0.00	56.4	S-20	0.683	0.02	123.7
	M-10	0.405	0.01	72.6	S-20 Arc	0.050	0.00	40.5
	M-10 Arc	0.028	0.00	23.8	ZA Arc	0.343	0.01	183.3
	Rellenos	0.116	0.00	78.6				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
366.614	S-CEMEN	4.966	10.84	935.0	G-25	0.978	2.13	183.3
	S-C Arc	0.065	0.14	56.5	S-20	0.683	1.49	125.2
	M-10	0.405	0.88	73.5	S-20 Arc	0.050	0.11	40.6
	M-10 Arc	0.028	0.06	23.9	ZA Arc	0.241	0.64	183.9
	Rellenos	0.112	0.25	78.8				
370.000	S-CEMEN	4.958	16.80	951.8	G-25	0.978	3.31	186.7
	S-C Arc	0.065	0.22	56.8	S-20	0.683	2.31	127.5
	M-10	0.405	1.37	74.9	S-20 Arc	0.050	0.17	40.8
	M-10 Arc	0.028	0.09	24.0	ZA Arc	0.052	0.50	184.4
	Rellenos	0.070	0.31	79.2				
371.619	S-CEMEN	4.920	8.00	959.8	G-25	0.978	1.58	188.2
	S-C Arc	0.065	0.10	56.9	S-20	0.683	1.11	128.6
	M-10	0.405	0.66	75.5	S-20 Arc	0.050	0.08	40.9
	M-10 Arc	0.028	0.05	24.0	ZA Arc	0.010	0.05	184.5
	Rellenos	0.049	0.10	79.3				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	959.8
G-25	188.2
S-C Arc	56.9
S-20	128.6
M-10	75.5
S-20 Arc	40.9
M-10 Arc	24.0
ZA Arc	184.5
Rellenos	79.3

1.1.2.3. REPOSICIÓN DE CAMINOS

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	1.492	0.00	0.0				
2.000	ZA	1.495	2.99	3.0				
4.000	ZA	1.469	2.96	6.0				
6.000	ZA	1.473	2.94	8.9				
8.000	ZA	1.424	2.90	11.8				
10.000	ZA	1.492	2.92	14.7				
12.000	ZA	1.491	2.98	17.7				
14.000	ZA	1.480	2.97	20.7				
16.000	ZA	1.439	2.92	23.6				
18.000	ZA	1.491	2.93	26.5				
20.000	ZA	1.491	2.98	29.5				
22.000	ZA	1.470	2.96	32.5				
24.000	ZA	1.501	2.97	35.4				
26.000	ZA	1.515	3.02	38.4				
28.000	ZA	1.515	3.03	41.5				
30.000	ZA	1.515	3.03	44.5				
32.000	ZA	1.515	3.03	47.5				
34.000	ZA	1.515	3.03	50.6				
36.000	ZA	1.515	3.03	53.6				
36.060	ZA	1.515	0.09	53.7				
38.000	ZA	1.515	2.94	56.6				
40.000	ZA	1.515	3.03	59.7				
42.000	ZA	1.515	3.03	62.7				
44.000	ZA	1.515	3.03	65.7				
46.000	ZA	1.515	3.03	68.7				
48.000	ZA	1.515	3.03	71.8				
50.000	ZA	1.515	3.03	74.8				
52.000	ZA	1.515	3.03	77.8				
54.000	ZA	1.515	3.03	80.9				
56.000	ZA	1.515	3.03	83.9				
58.000	ZA	1.515	3.03	86.9				
60.000	ZA	1.515	3.03	90.0				
62.000	ZA	1.515	3.03	93.0				
64.000	ZA	1.515	3.03	96.0				
66.000	ZA	1.515	3.03	99.0				
68.000	ZA	1.515	3.03	102.1				
70.000	ZA	1.515	3.03	105.1				
72.000	ZA	1.515	3.03	108.1				

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
74.000	ZA	1.515	3.03	111.2				
76.000	ZA	1.515	3.03	114.2				
78.000	ZA	1.515	3.03	117.2				
80.000	ZA	1.515	3.03	120.3				
82.000	ZA	1.515	3.03	123.3				
84.000	ZA	1.515	3.03	126.3				
86.000	ZA	1.515	3.03	129.3				
88.000	ZA	1.515	3.03	132.4				
90.000	ZA	1.515	3.03	135.4				
92.000	ZA	1.515	3.03	138.4				
94.000	ZA	1.515	3.03	141.5				
96.000	ZA	1.515	3.03	144.5				
98.000	ZA	1.515	3.03	147.5				
100.000	ZA	1.515	3.03	150.6				
102.000	ZA	1.515	3.03	153.6				
104.000	ZA	1.381	2.90	156.5				
106.000	ZA	1.381	2.76	159.2				
107.671	ZA	1.381	2.31	161.6				
108.000	ZA	1.381	0.45	162.0				
110.000	ZA	1.381	2.76	164.8				
112.000	ZA	1.381	2.76	167.5				
114.000	ZA	1.381	2.76	170.3				
116.000	ZA	1.381	2.76	173.1				
118.000	ZA	1.381	2.76	175.8				
120.000	ZA	1.381	2.76	178.6				
122.000	ZA	1.381	2.76	181.3				
124.000	ZA	1.381	2.76	184.1				
126.000	ZA	1.381	2.76	186.9				
128.000	ZA	1.381	2.76	189.6				
130.000	ZA	1.381	2.76	192.4				
132.000	ZA	1.381	2.76	195.2				
134.000	ZA	1.381	2.76	197.9				
136.000	ZA	1.381	2.76	200.7				
137.060	ZA	1.381	1.46	202.1				
138.000	ZA	1.381	1.30	203.4				
140.000	ZA	1.381	2.76	206.2				
142.000	ZA	1.381	2.76	209.0				
144.000	ZA	1.381	2.76	211.7				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
146.000	ZA	1.381	2.76	214.5				
148.000	ZA	1.381	2.76	217.2				
150.000	ZA	1.381	2.76	220.0				
152.000	ZA	1.381	2.76	222.8				
154.000	ZA	1.381	2.76	225.5				
156.000	ZA	1.381	2.76	228.3				
158.000	ZA	1.381	2.76	231.1				
160.000	ZA	1.381	2.76	233.8				
161.342	ZA	1.381	1.85	235.7				
162.000	ZA	1.381	0.91	236.6				
164.000	ZA	1.381	2.76	239.3				
166.000	ZA	1.470	2.85	242.2				
168.000	ZA	1.470	2.94	245.1				
170.000	ZA	1.470	2.94	248.1				
172.000	ZA	1.470	2.94	251.0				
174.000	ZA	1.470	2.94	254.0				
176.000	ZA	1.470	2.94	256.9				
178.000	ZA	1.470	2.94	259.8				
180.000	ZA	1.470	2.94	262.8				
182.000	ZA	1.426	2.90	265.7				
184.000	ZA	1.455	2.88	268.6				
186.000	ZA	1.479	2.93	271.5				
188.000	ZA	1.455	2.93	274.4				
188.195	ZA	1.458	0.28	274.7				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	274.7

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
5.000	ZA	0.218	0.54	0.5				
10.000	ZA	0.480	1.75	2.3				
15.000	ZA	0.781	3.15	5.4				
20.000	ZA	1.123	4.76	10.2				
25.000	ZA	1.407	6.32	16.5				
25.057	ZA	1.412	0.08	16.6				
30.000	ZA	1.912	8.22	24.8				
30.000	ZA	1.912	0.00	24.8				
35.000	ZA	1.926	9.60	34.4				
40.000	ZA	1.926	9.63	44.1				
45.000	ZA	1.926	9.63	53.7				
50.000	ZA	1.926	9.63	63.3				
55.000	ZA	1.926	9.63	72.9				
60.000	ZA	1.926	9.63	82.6				
65.000	ZA	1.926	9.63	92.2				
70.000	ZA	1.926	9.63	101.8				
71.376	ZA	1.926	2.65	104.5				
75.000	ZA	1.926	6.98	111.5				
77.500	ZA	1.969	4.87	116.3				
80.000	ZA	1.969	4.92	121.3				
85.000	ZA	1.969	9.84	131.1				
90.000	ZA	1.969	9.84	141.0				
95.000	ZA	1.969	9.84	150.8				
100.000	ZA	1.969	9.84	160.6				
105.000	ZA	1.969	9.84	170.5				
110.000	ZA	1.969	9.84	180.3				
115.000	ZA	1.969	9.84	190.2				
117.500	ZA	1.926	4.87	195.0				
120.000	ZA	1.926	4.82	199.9				
123.182	ZA	1.926	6.13	206.0				
125.000	ZA	1.926	3.50	209.5				
130.000	ZA	1.926	9.63	219.1				
135.000	ZA	1.914	9.60	228.7				
140.000	ZA	1.926	9.60	238.3				
145.000	ZA	1.926	9.63	248.0				
150.000	ZA	1.926	9.63	257.6				
154.088	ZA	1.926	7.87	265.5				
155.000	ZA	1.926	1.76	267.2				

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EJE: 13: REP. CAMINO EN P.K.2+120

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
160.000	ZA	1.926	9.63	276.9				
165.000	ZA	1.916	9.61	286.5				
170.000	ZA	1.867	9.46	295.9				
175.000	ZA	1.903	9.42	305.3				
180.000	ZA	1.901	9.51	314.8				
185.000	ZA	1.892	9.48	324.3				
190.000	ZA	1.884	9.44	333.8				
195.000	ZA	1.875	9.40	343.2				
200.000	ZA	1.772	9.12	352.3				
200.000	ZA	1.772	0.00	352.3				
205.000	ZA	1.392	7.91	360.2				
210.000	ZA	0.933	5.81	366.0				
215.000	ZA	0.526	3.65	369.7				
220.000	ZA	0.164	1.72	371.4				
222.519	ZA	0.000	0.21	371.6				

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EJE: 13: REP. CAMINO EN P.K.2+120

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	371.6

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EJE: 14: REP. CAMINO EN P.K.3+430

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	1.154	0.00	0.0				
2.000	ZA	1.196	2.35	2.3				
4.000	ZA	1.237	2.43	4.8				
6.000	ZA	1.261	2.50	7.3				
8.000	ZA	1.289	2.55	9.8				
10.000	ZA	1.370	2.66	12.5				
12.000	ZA	1.422	2.79	15.3				
14.000	ZA	1.433	2.86	18.1				
16.000	ZA	1.461	2.89	21.0				
18.000	ZA	1.570	3.03	24.1				
20.000	ZA	1.607	3.18	27.2				
22.000	ZA	1.561	3.17	30.4				
24.000	ZA	1.590	3.15	33.6				
26.000	ZA	1.614	3.20	36.8				
27.865	ZA	1.614	3.01	39.8				
28.000	ZA	1.614	0.22	40.0				
30.000	ZA	1.614	3.23	43.2				
32.000	ZA	1.614	3.23	46.4				
34.000	ZA	1.614	3.23	49.7				
36.000	ZA	1.614	3.23	52.9				
38.000	ZA	1.614	3.23	56.1				
40.000	ZA	1.614	3.23	59.4				
42.000	ZA	1.582	3.20	62.6				
44.000	ZA	1.573	3.15	65.7				
46.000	ZA	1.572	3.15	68.9				
46.827	ZA	1.572	1.30	70.2				
46.827	ZA	1.503	0.00	70.2				
48.000	ZA	1.503	1.76	71.9				
50.000	ZA	1.516	3.02	74.9				
52.000	ZA	1.531	3.05	78.0				
54.000	ZA	1.542	3.07	81.1				
56.000	ZA	1.546	3.09	84.1				
56.766	ZA	1.543	1.18	85.3				
57.711	ZA	1.538	1.46	86.8				
58.000	ZA	1.536	0.44	87.2				
60.000	ZA	1.516	3.05	90.3				
62.000	ZA	1.544	3.06	93.3				
62.111	ZA	1.544	0.17	93.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 14: REP. CAMINO EN P.K.3+430

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
64.000	ZA	1.544	2.92	96.4				
66.000	ZA	1.544	3.09	99.5				
67.840	ZA	1.544	2.84	102.4				
68.000	ZA	1.544	0.25	102.6				
69.175	ZA	1.544	1.81	104.4				
69.175	ZA	1.614	0.00	104.4				
70.000	ZA	1.614	1.33	105.7				
72.000	ZA	1.614	3.23	109.0				
74.000	ZA	1.603	3.22	112.2				
76.000	ZA	1.590	3.19	115.4				
78.000	ZA	1.590	3.18	118.6				
80.000	ZA	1.590	3.18	121.7				
80.750	ZA	1.590	1.19	122.9				
82.000	ZA	1.590	1.99	124.9				
84.000	ZA	1.590	3.18	128.1				
84.843	ZA	1.590	1.34	129.4				
86.000	ZA	1.590	1.84	131.3				
88.000	ZA	1.590	3.18	134.5				
90.000	ZA	1.590	3.18	137.6				
92.000	ZA	1.590	3.18	140.8				
94.000	ZA	1.590	3.18	144.0				
96.000	ZA	1.590	3.18	147.2				
98.000	ZA	1.590	3.18	150.4				
99.705	ZA	1.590	2.71	153.1				
100.000	ZA	1.590	0.47	153.5				
102.000	ZA	1.590	3.18	156.7				
104.000	ZA	1.590	3.18	159.9				
106.000	ZA	1.590	3.18	163.1				
108.000	ZA	1.590	3.18	166.3				
110.000	ZA	1.590	3.18	169.4				
112.000	ZA	1.590	3.18	172.6				
114.000	ZA	1.590	3.18	175.8				
114.569	ZA	1.590	0.90	176.7				
116.000	ZA	1.590	2.28	179.0				
118.000	ZA	1.590	3.18	182.2				
119.923	ZA	1.590	3.06	185.2				
119.923	ZA	1.590	0.00	185.2				
120.000	ZA	1.590	0.12	185.3				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
122.000	ZA	1.590	3.18	188.5				
124.000	ZA	1.590	3.18	191.7				
126.000	ZA	1.590	3.18	194.9				
128.000	ZA	1.590	3.18	198.1				
130.000	ZA	1.590	3.18	201.2				
132.000	ZA	1.590	3.18	204.4				
134.000	ZA	1.590	3.18	207.6				
136.000	ZA	1.590	3.18	210.8				
138.000	ZA	1.590	3.18	214.0				
140.000	ZA	1.590	3.18	217.1				
142.000	ZA	1.590	3.18	220.3				
144.000	ZA	1.590	3.18	223.5				
146.000	ZA	1.590	3.18	226.7				
148.000	ZA	1.590	3.18	229.9				
150.000	ZA	1.590	3.18	233.0				
152.000	ZA	1.590	3.18	236.2				
154.000	ZA	1.590	3.18	239.4				
156.000	ZA	1.590	3.18	242.6				
158.000	ZA	1.590	3.18	245.8				
160.000	ZA	1.590	3.18	248.9				
162.000	ZA	1.590	3.18	252.1				
164.000	ZA	1.590	3.18	255.3				
166.000	ZA	1.590	3.18	258.5				
168.000	ZA	1.590	3.18	261.7				
170.000	ZA	1.590	3.18	264.8				
172.000	ZA	1.590	3.18	268.0				
174.000	ZA	1.590	3.18	271.2				
176.000	ZA	1.590	3.18	274.4				
178.000	ZA	1.590	3.18	277.6				
180.000	ZA	1.590	3.18	280.7				
182.000	ZA	1.590	3.18	283.9				
184.000	ZA	1.590	3.18	287.1				
186.000	ZA	1.590	3.18	290.3				
188.000	ZA	1.590	3.18	293.5				
190.000	ZA	1.590	3.18	296.6				
191.470	ZA	1.590	2.34	299.0				
192.000	ZA	1.590	0.84	299.8				
194.000	ZA	1.590	3.18	303.0				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
196.000	ZA	1.590	3.18	306.2				
198.000	ZA	1.590	3.18	309.4				
200.000	ZA	1.590	3.18	312.5				
202.000	ZA	1.590	3.18	315.7				
204.000	ZA	1.590	3.18	318.9				
206.000	ZA	1.590	3.18	322.1				
208.000	ZA	1.590	3.18	325.3				
210.000	ZA	1.607	3.20	328.5				
212.000	ZA	1.611	3.22	331.7				
214.000	ZA	1.593	3.20	334.9				
216.000	ZA	1.635	3.23	338.1				
218.000	ZA	1.635	3.27	341.4				
220.000	ZA	1.635	3.27	344.7				
222.000	ZA	1.635	3.27	347.9				
224.000	ZA	0.000	1.64	349.6				
296.649	ZA	1.635	0.53	350.1				
298.000	ZA	1.635	2.21	352.3				
300.000	ZA	1.590	3.23	355.5				
300.294	ZA	1.590	0.47	356.0				
300.294	ZA	1.590	0.00	356.0				
302.000	ZA	1.590	2.71	358.7				
304.000	ZA	1.590	3.18	361.9				
306.000	ZA	1.590	3.18	365.1				
308.000	ZA	1.590	3.18	368.2				
310.000	ZA	1.590	3.18	371.4				
312.000	ZA	1.590	3.18	374.6				
314.000	ZA	1.590	3.18	377.8				
316.000	ZA	1.590	3.18	381.0				
318.000	ZA	1.554	3.14	384.1				
320.000	ZA	1.545	3.10	387.2				
322.000	ZA	1.590	3.13	390.3				
324.000	ZA	1.590	3.18	393.5				
326.000	ZA	1.560	3.15	396.7				
328.000	ZA	1.597	3.16	399.8				
330.000	ZA	1.609	3.21	403.0				
332.000	ZA	1.610	3.22	406.3				
334.000	ZA	1.614	3.22	409.5				
336.000	ZA	1.614	3.23	412.7				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
338.000	ZA	1.614	3.23	415.9				
340.000	ZA	1.599	3.21	419.2				
342.000	ZA	1.614	3.21	422.4				
344.000	ZA	1.614	3.23	425.6				
344.808	ZA	1.614	1.30	426.9				
346.000	ZA	1.614	1.92	428.8				
348.000	ZA	1.614	3.23	432.0				
350.000	ZA	1.614	3.23	435.3				
352.000	ZA	1.614	3.23	438.5				
354.000	ZA	1.614	3.23	441.7				
356.000	ZA	1.614	3.23	445.0				
358.000	ZA	1.614	3.23	448.2				
360.000	ZA	1.611	3.23	451.4				
362.000	ZA	1.590	3.20	454.6				
364.000	ZA	1.590	3.18	457.8				
365.599	ZA	1.590	2.54	460.3				
366.000	ZA	1.604	0.64	461.0				
366.812	ZA	1.563	1.29	462.3				
368.000	ZA	1.529	1.84	464.1				
370.000	ZA	1.479	3.01	467.1				
372.000	ZA	1.386	2.86	470.0				
374.000	ZA	1.377	2.76	472.7				
376.000	ZA	1.315	2.69	475.4				
378.000	ZA	1.276	2.59	478.0				
380.000	ZA	1.228	2.50	480.5				
382.000	ZA	1.175	2.40	482.9				
384.000	ZA	1.124	2.30	485.2				
385.727	ZA	1.080	1.90	487.1				
386.000	ZA	1.080	0.29	487.4				

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	487.4

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	2.627	0.00	0.0				
2.000	ZA	2.627	5.25	5.3				
4.000	ZA	2.601	5.23	10.5				
6.000	ZA	2.643	5.24	15.7				
8.000	ZA	2.632	5.27	21.0				
10.000	ZA	2.616	5.25	26.2				
10.000	ZA	2.350	0.00	26.2				
11.083	ZA	2.351	2.55	28.8				
12.000	ZA	2.351	2.16	30.9				
14.000	ZA	2.293	4.64	35.6				
16.000	ZA	2.346	4.64	40.2				
18.000	ZA	2.363	4.71	44.9				
20.000	ZA	2.366	4.73	49.7				
22.000	ZA	2.366	4.73	54.4				
24.000	ZA	2.366	4.73	59.1				
26.000	ZA	2.367	4.73	63.9				
28.000	ZA	2.352	4.72	68.6				
30.000	ZA	2.352	4.70	73.3				
32.000	ZA	2.367	4.72	78.0				
34.000	ZA	2.367	4.73	82.7				
36.000	ZA	2.367	4.73	87.5				
38.000	ZA	2.367	4.73	92.2				
40.000	ZA	2.368	4.73	96.9				
42.000	ZA	2.367	4.73	101.7				
44.000	ZA	2.367	4.73	106.4				
46.000	ZA	2.368	4.73	111.2				
48.000	ZA	2.367	4.73	115.9				
50.000	ZA	2.367	4.73	120.6				
50.602	ZA	2.367	1.43	122.0				
52.000	ZA	2.367	3.31	125.4				
54.000	ZA	2.367	4.73	130.1				
56.000	ZA	2.367	4.73	134.8				
58.000	ZA	2.367	4.73	139.6				
60.000	ZA	2.367	4.73	144.3				
62.000	ZA	2.367	4.73	149.0				
64.000	ZA	2.367	4.73	153.8				
66.000	ZA	2.367	4.73	158.5				
68.000	ZA	2.367	4.73	163.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
70.000	ZA	2.367	4.73	168.0				
72.000	ZA	2.367	4.73	172.7				
74.000	ZA	2.367	4.73	177.4				
76.000	ZA	2.367	4.73	182.2				
78.000	ZA	2.367	4.73	186.9				
80.000	ZA	2.367	4.73	191.6				
82.000	ZA	2.367	4.73	196.4				
84.000	ZA	2.367	4.73	201.1				
86.000	ZA	2.367	4.73	205.8				
88.000	ZA	2.367	4.73	210.6				
90.000	ZA	2.367	4.73	215.3				
92.000	ZA	2.367	4.73	220.0				
94.000	ZA	2.367	4.73	224.8				
96.000	ZA	2.367	4.73	229.5				
97.108	ZA	2.367	2.62	232.1				
98.000	ZA	2.367	2.11	234.2				
100.000	ZA	2.367	4.73	239.0				
220.000	ZA	2.396	285.79	524.8				
222.000	ZA	2.396	4.79	529.6				
224.000	ZA	2.396	4.79	534.4				
226.000	ZA	2.396	4.79	539.1				
228.000	ZA	2.396	4.79	543.9				
230.000	ZA	2.396	4.79	548.7				
232.000	ZA	2.396	4.79	553.5				
234.000	ZA	2.396	4.79	558.3				
236.000	ZA	2.396	4.79	563.1				
238.000	ZA	2.396	4.79	567.9				
240.000	ZA	2.396	4.79	572.7				
242.000	ZA	2.396	4.79	577.5				
244.000	ZA	2.396	4.79	582.3				
246.000	ZA	2.396	4.79	587.1				
248.000	ZA	2.396	4.79	591.9				
250.000	ZA	2.396	4.79	596.7				
252.000	ZA	2.396	4.79	601.4				
254.000	ZA	2.396	4.79	606.2				
256.000	ZA	2.396	4.79	611.0				
258.000	ZA	2.396	4.79	615.8				
260.000	ZA	2.396	4.79	620.6				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
262.000	ZA	2.396	4.79	625.4				
264.000	ZA	2.396	4.79	630.2				
266.000	ZA	2.396	4.79	635.0				
268.000	ZA	2.396	4.79	639.8				
270.000	ZA	2.396	4.79	644.6				
271.256	ZA	2.396	3.01	647.6				
272.000	ZA	2.396	1.78	649.4				
274.000	ZA	2.396	4.79	654.2				
276.000	ZA	2.396	4.79	658.9				
278.000	ZA	2.396	4.79	663.7				
280.000	ZA	2.396	4.79	668.5				
282.000	ZA	2.396	4.79	673.3				
284.000	ZA	2.396	4.79	678.1				
286.000	ZA	2.396	4.79	682.9				
288.000	ZA	2.396	4.79	687.7				
290.000	ZA	2.396	4.79	692.5				
292.000	ZA	2.396	4.79	697.3				
294.000	ZA	2.396	4.79	702.1				
296.000	ZA	2.396	4.79	706.9				
298.000	ZA	2.396	4.79	711.7				
300.000	ZA	2.396	4.79	716.5				
302.000	ZA	2.396	4.79	721.2				
304.000	ZA	2.396	4.79	726.0				
306.000	ZA	2.396	4.79	730.8				
308.000	ZA	2.396	4.79	735.6				
310.000	ZA	2.396	4.79	740.4				
312.000	ZA	2.396	4.79	745.2				
314.000	ZA	2.396	4.79	750.0				
316.000	ZA	2.396	4.79	754.8				
318.000	ZA	2.396	4.79	759.6				
320.000	ZA	2.396	4.79	764.4				
322.000	ZA	2.396	4.79	769.2				
324.000	ZA	2.396	4.79	774.0				
326.000	ZA	2.396	4.79	778.8				
328.000	ZA	2.396	4.79	783.5				
330.000	ZA	2.396	4.79	788.3				
330.000	ZA	2.663	0.00	788.3				
332.000	ZA	2.663	5.33	793.7				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
334.000	ZA	2.663	5.33	799.0				
336.000	ZA	2.663	5.33	804.3				
336.570	ZA	2.663	1.52	805.8				
338.000	ZA	2.663	3.81	809.6				
340.000	ZA	2.663	5.33	815.0				
342.000	ZA	2.663	5.33	820.3				
344.000	ZA	2.663	5.33	825.6				
346.000	ZA	2.663	5.33	830.9				
348.000	ZA	2.663	5.33	836.3				
350.000	ZA	2.663	5.33	841.6				
352.000	ZA	2.663	5.33	846.9				
354.000	ZA	2.663	5.33	852.2				
356.000	ZA	2.663	5.33	857.6				
356.272	ZA	2.662	0.72	858.3				
358.000	ZA	2.662	4.60	862.9				
360.000	ZA	2.659	5.32	868.2				
362.000	ZA	2.663	5.32	873.5				
364.000	ZA	2.663	5.33	878.9				
366.000	ZA	2.663	5.33	884.2				
368.000	ZA	2.662	5.32	889.5				
370.000	ZA	2.656	5.32	894.8				
372.000	ZA	2.647	5.30	900.1				
374.000	ZA	2.635	5.28	905.4				
375.958	ZA	2.617	5.14	910.6				
376.000	ZA	2.616	0.11	910.7				
378.000	ZA	2.481	5.10	915.8				
380.000	ZA	2.629	5.11	920.9				
381.776	ZA	2.620	4.66	925.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 15: REPOSICION DEL CAMINO DE SANTIAGO

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	925.5

1.1.2.4. CAMINOS PARALELOS

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	1.051	0.00	0.0				
5.000	ZA	1.192	5.61	5.6				
10.000	ZA	1.342	6.34	11.9				
15.000	ZA	1.491	7.08	19.0				
20.000	ZA	1.640	7.83	26.9				
23.558	ZA	1.639	5.83	32.7				
25.000	ZA	1.639	2.36	35.0				
29.947	ZA	1.638	8.10	43.2				
30.000	ZA	1.638	0.09	43.2				
35.000	ZA	1.637	8.19	51.4				
40.000	ZA	1.636	8.18	59.6				
45.000	ZA	1.636	8.18	67.8				
50.000	ZA	1.635	8.18	76.0				
55.000	ZA	1.648	8.21	84.2				
60.000	ZA	1.648	8.24	92.4				
61.157	ZA	1.648	1.91	94.3				
65.000	ZA	1.649	6.33	100.7				
70.000	ZA	1.650	8.25	108.9				
75.000	ZA	1.650	8.25	117.1				
80.000	ZA	1.650	8.25	125.4				
85.000	ZA	1.650	8.25	133.6				
87.082	ZA	1.650	3.43	137.1				
90.000	ZA	1.650	4.81	141.9				
95.000	ZA	1.650	8.25	150.1				
100.000	ZA	1.650	8.25	158.4				
105.000	ZA	1.650	8.25	166.6				
110.000	ZA	1.650	8.25	174.9				
115.000	ZA	1.650	8.25	183.1				
120.000	ZA	1.650	8.25	191.4				
125.000	ZA	1.650	8.25	199.6				
125.090	ZA	1.650	0.15	199.8				
130.000	ZA	1.650	8.10	207.9				
135.000	ZA	1.650	8.25	216.1				
139.424	ZA	1.662	7.33	223.4				
139.428	ZA	1.662	0.01	223.5				
139.436	ZA	1.662	0.01	223.5				
140.000	ZA	1.662	0.94	224.4				
495.000	ZA	0.005	295.93	520.3				

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PROYECTO : VARIANTE DE OURENSE
EJE: 16: CAMINO PARALELO M.I. DE P.K.2+500 A P.K.3+280

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
500.000	ZA	0.005	0.03	520.4				
505.000	ZA	0.005	0.03	520.4				
510.000	ZA	0.005	0.02	520.4				
515.000	ZA	0.005	0.02	520.4				
520.000	ZA	0.005	0.02	520.5				
523.556	ZA	0.005	0.02	520.5				
525.000	ZA	0.005	0.01	520.5				
528.704	ZA	0.005	0.02	520.5				
530.000	ZA	0.005	0.01	520.5				
535.000	ZA	0.005	0.03	520.5				
535.659	ZA	0.005	0.00	520.5				
540.000	ZA	0.005	0.02	520.6				
545.000	ZA	0.005	0.03	520.6				
550.000	ZA	0.005	0.02	520.6				
555.000	ZA	0.005	0.02	520.6				
560.000	ZA	0.005	0.02	520.7				
565.000	ZA	0.005	0.03	520.7				
570.000	ZA	0.005	0.03	520.7				
575.000	ZA	0.005	0.02	520.7				
575.427	ZA	0.005	0.00	520.7				
575.427	ZA	1.583	0.00	520.7				
580.000	ZA	1.583	7.24	528.0				
585.000	ZA	1.583	7.91	535.9				
587.500	ZA	1.583	3.96	539.9				
590.000	ZA	1.583	3.96	543.8				
591.357	ZA	1.584	2.15	546.0				
591.357	ZA	1.650	0.00	546.0				
595.000	ZA	1.650	6.01	552.0				
600.000	ZA	1.650	8.25	560.2				
605.000	ZA	1.650	8.25	568.5				
610.000	ZA	1.650	8.25	576.7				
615.000	ZA	1.635	8.21	584.9				
620.000	ZA	1.635	8.18	593.1				
625.000	ZA	1.635	8.18	601.3				
630.000	ZA	1.650	8.21	609.5				
632.636	ZA	1.650	4.35	613.8				
635.000	ZA	1.650	3.90	617.7				
640.000	ZA	1.650	8.25	626.0				

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
645.000	ZA	1.650	8.25	634.2				
650.000	ZA	1.650	8.25	642.5				
655.000	ZA	1.650	8.25	650.7				
660.000	ZA	1.650	8.25	659.0				
665.000	ZA	1.650	8.25	667.2				
670.000	ZA	1.662	8.28	675.5				
675.000	ZA	1.662	8.31	683.8				
678.686	ZA	1.662	6.13	689.9				
680.000	ZA	1.662	2.18	692.1				
685.000	ZA	1.662	8.31	700.4				
690.000	ZA	1.662	8.31	708.7				
695.000	ZA	1.662	8.31	717.1				
700.000	ZA	1.662	8.31	725.4				
704.709	ZA	1.662	7.83	733.2				
705.000	ZA	1.662	0.48	733.7				
710.000	ZA	1.662	8.31	742.0				
715.000	ZA	1.662	8.31	750.3				
720.000	ZA	1.662	8.31	758.6				
722.672	ZA	1.662	4.44	763.1				

* * * MEDICIONES DE LOS ACUERDOS EN LOS CRUCES * * *
* * * Cubicacion segun distancias compensadas * * *

PK	EJE	AC	MATERIAL	VOL. PARCIAL	MATERIAL	VOL. PARCIAL
800.000	14	IA	ZA	9.11		
800.000	14	DA	ZA	3.89		

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	776.0

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	2.061	0.00	0.0				
0.144	ZA	2.045	0.30	0.3				
0.440	ZA	2.001	0.60	0.9				
0.586	ZA	1.978	0.29	1.2				
0.721	ZA	1.963	0.27	1.5				
1.069	ZA	1.925	0.68	2.1				
1.565	ZA	1.844	0.93	3.1				
1.906	ZA	1.833	0.63	3.7				
2.029	ZA	1.830	0.23	3.9				
2.069	ZA	1.829	0.07	4.0				
3.060	ZA	1.813	1.80	5.8				
3.374	ZA	1.809	0.57	6.4				
4.723	ZA	1.791	2.43	8.8				
5.000	ZA	1.787	0.50	9.3				
6.076	ZA	1.759	1.91	11.2				
7.435	ZA	1.728	2.37	13.6				
8.800	ZA	1.697	2.34	15.9				
10.000	ZA	1.681	2.03	17.9				
10.169	ZA	1.677	0.28	18.2				
11.543	ZA	1.644	2.28	20.5				
14.153	ZA	1.612	4.25	24.7				
15.000	ZA	1.611	1.37	26.1				
15.540	ZA	1.635	0.88	27.0				
20.000	ZA	1.590	7.19	34.2				
25.000	ZA	1.590	7.95	42.1				
30.000	ZA	1.590	7.95	50.1				
35.000	ZA	1.590	7.95	58.0				
37.438	ZA	1.590	3.88	61.9				
40.000	ZA	1.590	4.07	66.0				
45.000	ZA	1.590	7.95	73.9				
50.000	ZA	1.590	7.95	81.9				
55.000	ZA	1.590	7.95	89.8				
60.000	ZA	1.590	7.95	97.8				
65.000	ZA	1.590	7.95	105.7				
70.000	ZA	1.590	7.95	113.7				
75.000	ZA	1.590	7.95	121.6				
80.000	ZA	1.590	7.95	129.6				
85.000	ZA	1.590	7.95	137.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
90.000	ZA	1.581	7.93	145.5				
95.000	ZA	1.611	7.98	153.4				
100.000	ZA	1.614	8.06	161.5				
105.000	ZA	1.614	8.07	169.6				
106.432	ZA	1.614	2.31	171.9				
110.000	ZA	1.587	5.71	177.6				
115.000	ZA	1.635	8.06	185.6				
120.000	ZA	1.635	8.18	193.8				
125.000	ZA	1.635	8.18	202.0				
130.000	ZA	1.635	8.18	210.2				
135.000	ZA	1.635	8.18	218.3				
140.000	ZA	1.635	8.18	226.5				
145.000	ZA	1.630	8.16	234.7				
146.931	ZA	1.623	3.14	237.8				
150.000	ZA	1.613	4.97	242.8				
155.000	ZA	1.615	8.07	250.9				
160.000	ZA	1.635	8.12	259.0				
165.000	ZA	1.635	8.17	267.2				
170.000	ZA	1.635	8.17	275.3				
175.000	ZA	1.554	7.97	283.3				
180.000	ZA	1.608	7.91	291.2				
185.000	ZA	1.626	8.09	299.3				
190.000	ZA	1.629	8.14	307.4				
195.000	ZA	1.628	8.14	315.6				
198.405	ZA	1.609	5.51	321.1				
200.000	ZA	1.607	2.56	323.7				
205.000	ZA	1.590	7.99	331.6				
210.000	ZA	1.590	7.95	339.6				
215.000	ZA	1.590	7.95	347.5				
220.000	ZA	1.590	7.95	355.5				
225.000	ZA	1.601	7.98	363.5				
230.000	ZA	1.614	8.04	371.5				
233.177	ZA	1.601	5.11	376.6				
235.000	ZA	1.618	2.93	379.6				
240.000	ZA	1.635	8.13	387.7				
245.000	ZA	1.635	8.18	395.9				
250.000	ZA	1.633	8.17	404.0				
255.000	ZA	1.616	8.12	412.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
260.000	ZA	1.568	7.96	420.1				
265.000	ZA	1.567	7.84	428.0				
270.000	ZA	1.584	7.88	435.8				
275.000	ZA	1.582	7.91	443.7				
278.044	ZA	1.590	4.83	448.6				
280.000	ZA	1.581	3.10	451.7				
281.191	ZA	1.594	1.89	453.6				

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PROYECTO : VARIANTE DE OURENSE
EJE: 17: CAMINO PARALELO RAMAL A ENL. DE CASILLA

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	453.6

1.1.2.5. DESVÍOS PROVISIONALES

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	C FORMA	5.238	0.00	0.0	SUBBAL.	1.855	0.00	0.0
5.000	C FORMA	5.238	26.19	26.2	SUBBAL.	1.855	9.28	9.3
10.000	C FORMA	5.238	26.19	52.4	SUBBAL.	1.855	9.28	18.6
11.274	C FORMA	5.238	6.67	59.1	SUBBAL.	1.855	2.36	20.9
15.000	C FORMA	5.238	19.52	78.6	SUBBAL.	1.854	6.91	27.8
20.000	C FORMA	5.238	26.19	104.8	SUBBAL.	1.853	9.27	37.1
25.000	C FORMA	5.238	26.19	130.9	SUBBAL.	1.851	9.26	46.3
30.000	C FORMA	5.238	26.19	157.1	SUBBAL.	1.849	9.25	55.6
35.000	C FORMA	5.400	26.59	183.7	SUBBAL.	1.855	9.26	64.9
40.000	C FORMA	5.400	27.00	210.7	SUBBAL.	1.853	9.27	74.1
45.000	C FORMA	5.400	27.00	237.7	SUBBAL.	1.852	9.26	83.4
50.000	C FORMA	5.400	27.00	264.7	SUBBAL.	1.850	9.25	92.6
55.000	C FORMA	5.238	26.59	291.3	SUBBAL.	1.841	9.23	101.9
60.000	C FORMA	5.400	26.60	317.9	SUBBAL.	1.847	9.22	111.1
65.000	C FORMA	5.400	27.00	344.9	SUBBAL.	1.845	9.23	120.3
70.000	C FORMA	5.400	27.00	371.9	SUBBAL.	1.844	9.22	129.5
75.000	C FORMA	5.400	27.00	398.9	SUBBAL.	1.842	9.21	138.8
80.000	C FORMA	5.400	27.00	425.9	SUBBAL.	1.840	9.21	148.0
85.000	C FORMA	5.400	27.00	452.9	SUBBAL.	1.839	9.20	157.2
90.000	C FORMA	5.400	27.00	479.9	SUBBAL.	1.837	9.19	166.4
95.000	C FORMA	5.400	27.00	506.9	SUBBAL.	1.836	9.18	175.5
100.000	C FORMA	5.400	27.00	533.9	SUBBAL.	1.834	9.17	184.7
105.000	C FORMA	5.400	27.00	560.9	SUBBAL.	1.832	9.17	193.9
110.000	C FORMA	5.400	27.00	587.9	SUBBAL.	1.831	9.16	203.0
115.000	C FORMA	5.400	27.00	614.9	SUBBAL.	1.829	9.15	212.2
120.000	C FORMA	5.238	26.60	641.5	SUBBAL.	1.820	9.12	221.3
125.000	C FORMA	5.238	26.19	667.7	SUBBAL.	1.819	9.10	230.4
128.357	C FORMA	5.238	17.58	685.3	SUBBAL.	1.818	6.10	236.5
130.000	C FORMA	5.238	8.61	693.9	SUBBAL.	1.818	2.99	239.5
135.000	C FORMA	5.238	26.19	720.1	SUBBAL.	1.818	9.09	248.6
140.000	C FORMA	5.238	26.19	746.3	SUBBAL.	1.818	9.09	257.7
145.000	C FORMA	5.076	25.78	772.1	SUBBAL.	1.811	9.07	266.7
150.000	C FORMA	5.076	25.38	797.4	SUBBAL.	1.811	9.05	275.8
155.000	C FORMA	5.075	25.38	822.8	SUBBAL.	1.811	9.06	284.8
160.000	C FORMA	5.075	25.38	848.2	SUBBAL.	1.811	9.06	293.9
165.000	C FORMA	5.075	25.38	873.6	SUBBAL.	1.811	9.06	303.0
170.000	C FORMA	5.076	25.38	898.9	SUBBAL.	1.811	9.06	312.0
175.000	C FORMA	5.076	25.38	924.3	SUBBAL.	1.811	9.05	321.1

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PROYECTO : VARIANTE DE OURENSE
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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
180.000	C FORMA	5.076	25.38	949.7	SUBBAL.	1.811	9.05	330.1
185.000	C FORMA	5.076	25.38	975.1	SUBBAL.	1.811	9.05	339.2
190.000	C FORMA	5.075	25.38	1000.5	SUBBAL.	1.811	9.06	348.2
195.000	C FORMA	5.075	25.38	1025.8	SUBBAL.	1.811	9.06	357.3
200.000	C FORMA	5.075	25.38	1051.2	SUBBAL.	1.811	9.06	366.3
205.000	C FORMA	5.075	25.38	1076.6	SUBBAL.	1.811	9.06	375.4
210.000	C FORMA	5.076	25.38	1102.0	SUBBAL.	1.811	9.06	384.5
215.000	C FORMA	5.075	25.38	1127.3	SUBBAL.	1.811	9.06	393.5
220.000	C FORMA	5.076	25.38	1152.7	SUBBAL.	1.811	9.06	402.6
225.000	C FORMA	5.076	25.38	1178.1	SUBBAL.	1.811	9.05	411.6
230.000	C FORMA	5.076	25.38	1203.5	SUBBAL.	1.811	9.05	420.7
235.000	C FORMA	5.076	25.38	1228.8	SUBBAL.	1.811	9.05	429.7
240.000	C FORMA	5.076	25.38	1254.2	SUBBAL.	1.811	9.05	438.8
245.000	C FORMA	5.076	25.38	1279.6	SUBBAL.	1.811	9.05	447.8
250.000	C FORMA	5.076	25.38	1305.0	SUBBAL.	1.811	9.05	456.9
255.000	C FORMA	5.075	25.38	1330.4	SUBBAL.	1.811	9.06	465.9
260.000	C FORMA	5.075	25.38	1355.7	SUBBAL.	1.811	9.06	475.0
265.000	C FORMA	5.075	25.38	1381.1	SUBBAL.	1.811	9.06	484.1
270.000	C FORMA	5.076	25.38	1406.5	SUBBAL.	1.811	9.06	493.1
275.000	C FORMA	5.076	25.38	1431.9	SUBBAL.	1.811	9.05	502.2
280.000	C FORMA	5.076	25.38	1457.3	SUBBAL.	1.811	9.05	511.2
285.000	C FORMA	5.076	25.38	1482.6	SUBBAL.	1.811	9.05	520.3
290.000	C FORMA	5.076	25.38	1508.0	SUBBAL.	1.811	9.05	529.3
295.000	C FORMA	5.075	25.38	1533.4	SUBBAL.	1.811	9.05	538.4
300.000	C FORMA	5.076	25.38	1558.8	SUBBAL.	1.811	9.05	547.4
305.000	C FORMA	5.076	25.38	1584.1	SUBBAL.	1.811	9.05	556.5
307.470	C FORMA	5.076	12.54	1596.7	SUBBAL.	1.811	4.47	561.0
310.000	C FORMA	5.076	12.84	1609.5	SUBBAL.	1.812	4.58	565.6
315.000	C FORMA	5.076	25.38	1634.9	SUBBAL.	1.815	9.07	574.6
320.000	C FORMA	5.075	25.38	1660.3	SUBBAL.	1.818	9.08	583.7
325.000	C FORMA	5.076	25.38	1685.7	SUBBAL.	1.820	9.09	592.8
330.000	C FORMA	5.076	25.38	1711.0	SUBBAL.	1.823	9.11	601.9
335.000	C FORMA	5.238	25.78	1736.8	SUBBAL.	1.832	9.14	611.0
340.000	C FORMA	5.238	26.19	1763.0	SUBBAL.	1.834	9.17	620.2
345.000	C FORMA	5.400	26.59	1789.6	SUBBAL.	1.844	9.20	629.4
350.000	C FORMA	5.400	27.00	1816.6	SUBBAL.	1.846	9.22	638.6
355.000	C FORMA	5.400	27.00	1843.6	SUBBAL.	1.848	9.24	647.9
360.000	C FORMA	5.400	27.00	1870.6	SUBBAL.	1.851	9.25	657.1

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
365.000	C FORMA	5.400	27.00	1897.6	SUBBAL.	1.853	9.26	666.4
370.000	C FORMA	5.400	27.00	1924.6	SUBBAL.	1.856	9.27	675.6
375.000	C FORMA	5.400	27.00	1951.6	SUBBAL.	1.858	9.29	684.9
380.000	C FORMA	5.400	27.00	1978.6	SUBBAL.	1.861	9.30	694.2
382.470	C FORMA	5.400	13.34	1991.9	SUBBAL.	1.862	4.60	698.8
385.000	C FORMA	5.400	13.66	2005.6	SUBBAL.	1.862	4.71	703.5
390.000	C FORMA	5.238	26.59	2032.2	SUBBAL.	1.855	9.29	712.8
395.000	C FORMA	5.400	26.59	2058.8	SUBBAL.	1.862	9.29	722.1
400.000	C FORMA	5.400	27.00	2085.8	SUBBAL.	1.862	9.31	731.4
405.000	C FORMA	5.400	27.00	2112.8	SUBBAL.	1.862	9.31	740.7
410.000	C FORMA	5.238	26.59	2139.4	SUBBAL.	1.855	9.29	750.0
415.000	C FORMA	5.076	25.78	2165.2	SUBBAL.	1.848	9.26	759.3
420.000	C FORMA	5.076	25.38	2190.5	SUBBAL.	1.848	9.24	768.5
425.000	C FORMA	5.076	25.38	2215.9	SUBBAL.	1.848	9.24	777.8
430.000	C FORMA	5.076	25.38	2241.3	SUBBAL.	1.848	9.24	787.0
435.000	C FORMA	5.076	25.38	2266.7	SUBBAL.	1.848	9.24	796.3
440.000	C FORMA	5.076	25.38	2292.1	SUBBAL.	1.848	9.24	805.5
445.000	C FORMA	5.076	25.38	2317.4	SUBBAL.	1.848	9.24	814.7
450.000	C FORMA	5.076	25.38	2342.8	SUBBAL.	1.848	9.24	824.0
455.000	C FORMA	5.075	25.38	2368.2	SUBBAL.	1.848	9.24	833.2
460.000	C FORMA	5.075	25.38	2393.6	SUBBAL.	1.848	9.24	842.5
465.000	C FORMA	5.075	25.38	2418.9	SUBBAL.	1.848	9.24	851.7
470.000	C FORMA	5.238	25.78	2444.7	SUBBAL.	1.855	9.26	861.0
475.000	C FORMA	5.238	26.19	2470.9	SUBBAL.	1.855	9.28	870.2
480.000	C FORMA	5.238	26.19	2497.1	SUBBAL.	1.855	9.28	879.5
485.000	C FORMA	5.238	26.19	2523.3	SUBBAL.	1.855	9.28	888.8
490.000	C FORMA	5.238	26.19	2549.5	SUBBAL.	1.855	9.28	898.1
495.000	C FORMA	5.238	26.19	2575.7	SUBBAL.	1.855	9.28	907.3
500.000	C FORMA	5.076	25.78	2601.5	SUBBAL.	1.848	9.26	916.6
505.000	C FORMA	5.075	25.38	2626.8	SUBBAL.	1.848	9.24	925.8
510.000	C FORMA	5.238	25.78	2652.6	SUBBAL.	1.855	9.26	935.1
515.000	C FORMA	5.238	26.19	2678.8	SUBBAL.	1.855	9.28	944.4
520.000	C FORMA	5.238	26.19	2705.0	SUBBAL.	1.855	9.28	953.6
525.000	C FORMA	5.238	26.19	2731.2	SUBBAL.	1.855	9.27	962.9
525.000	C FORMA	4.641	0.00	2731.2	SUBBAL.	1.830	0.00	962.9
530.000	C FORMA	4.641	23.20	2754.4	SUBBAL.	1.830	9.15	972.1
531.469	C FORMA	4.640	6.82	2761.2	SUBBAL.	1.830	2.69	974.8
535.000	C FORMA	4.641	16.39	2777.6	SUBBAL.	1.830	6.46	981.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
540.000	C FORMA	4.640	23.20	2800.8	SUBBAL.	1.829	9.15	990.4
545.000	C FORMA	4.641	23.20	2824.0	SUBBAL.	1.828	9.14	999.5
550.000	C FORMA	4.641	23.20	2847.2	SUBBAL.	1.827	9.14	1008.6
555.000	C FORMA	4.641	23.20	2870.4	SUBBAL.	1.826	9.13	1017.8
560.000	C FORMA	4.641	23.20	2893.6	SUBBAL.	1.825	9.13	1026.9
565.000	C FORMA	4.641	23.20	2916.8	SUBBAL.	1.824	9.12	1036.0
570.000	C FORMA	4.803	23.61	2940.4	SUBBAL.	1.830	9.14	1045.2
575.000	C FORMA	4.803	24.01	2964.4	SUBBAL.	1.829	9.15	1054.3
580.000	C FORMA	4.803	24.01	2988.4	SUBBAL.	1.829	9.15	1063.5
585.000	C FORMA	4.803	24.01	3012.5	SUBBAL.	1.828	9.14	1072.6
590.000	C FORMA	4.803	24.01	3036.5	SUBBAL.	1.827	9.14	1081.7
593.669	C FORMA	4.803	17.62	3054.1	SUBBAL.	1.826	6.70	1088.4
595.000	C FORMA	4.803	6.39	3060.5	SUBBAL.	1.826	2.43	1090.9
600.000	C FORMA	4.803	24.01	3084.5	SUBBAL.	1.826	9.13	1100.0
605.000	C FORMA	4.803	24.01	3108.5	SUBBAL.	1.826	9.13	1109.1
610.000	C FORMA	4.803	24.01	3132.5	SUBBAL.	1.826	9.13	1118.3
615.000	C FORMA	4.803	24.01	3156.5	SUBBAL.	1.826	9.13	1127.4
615.000	C FORMA	4.199	0.00	3156.5	SUBBAL.	1.800	0.00	1127.4
620.000	C FORMA	4.200	21.00	3177.5	SUBBAL.	1.801	9.00	1136.4
625.000	C FORMA	4.200	21.00	3198.5	SUBBAL.	1.800	9.00	1145.4
630.000	C FORMA	4.200	21.00	3219.5	SUBBAL.	1.800	9.00	1154.4
635.000	C FORMA	4.200	21.00	3240.5	SUBBAL.	1.801	9.00	1163.4
640.000	C FORMA	4.200	21.00	3261.5	SUBBAL.	1.801	9.01	1172.4
645.000	C FORMA	4.200	21.00	3282.5	SUBBAL.	1.801	9.01	1181.4
650.000	C FORMA	4.200	21.00	3303.5	SUBBAL.	1.801	9.00	1190.4
655.000	C FORMA	4.200	21.00	3324.5	SUBBAL.	1.800	9.00	1199.4
660.000	C FORMA	4.200	21.00	3345.5	SUBBAL.	1.800	9.00	1208.4
665.000	C FORMA	4.200	21.00	3366.5	SUBBAL.	1.800	9.00	1217.4
670.000	C FORMA	4.199	21.00	3387.5	SUBBAL.	1.800	9.00	1226.4
670.128	C FORMA	4.199	0.54	3388.1	SUBBAL.	1.800	0.23	1226.7
675.000	C FORMA	4.198	20.45	3408.5	SUBBAL.	1.801	8.77	1235.4
680.000	C FORMA	4.198	20.99	3429.5	SUBBAL.	1.801	9.01	1244.4
685.000	C FORMA	4.197	20.99	3450.5	SUBBAL.	1.802	9.01	1253.4
690.000	C FORMA	4.197	20.99	3471.5	SUBBAL.	1.803	9.01	1262.5
695.000	C FORMA	4.197	20.99	3492.5	SUBBAL.	1.804	9.02	1271.5
700.000	C FORMA	4.198	20.99	3513.5	SUBBAL.	1.804	9.02	1280.5
705.000	C FORMA	4.198	20.99	3534.5	SUBBAL.	1.805	9.02	1289.5
710.000	C FORMA	4.198	20.99	3555.4	SUBBAL.	1.805	9.03	1298.5

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
715.000	C FORMA	4.197	20.99	3576.4	SUBBAL.	1.806	9.03	1307.6
720.000	C FORMA	4.197	20.99	3597.4	SUBBAL.	1.806	9.03	1316.6
725.000	C FORMA	4.197	20.98	3618.4	SUBBAL.	1.807	9.03	1325.6
730.000	C FORMA	4.197	20.98	3639.4	SUBBAL.	1.808	9.04	1334.7
735.000	C FORMA	4.196	20.98	3660.4	SUBBAL.	1.809	9.04	1343.7
738.740	C FORMA	4.196	15.69	3676.1	SUBBAL.	1.809	6.77	1350.5
740.000	C FORMA	4.196	5.29	3681.3	SUBBAL.	1.809	2.28	1352.8
745.000	C FORMA	4.196	20.98	3702.3	SUBBAL.	1.809	9.05	1361.8
750.000	C FORMA	4.196	20.98	3723.3	SUBBAL.	1.809	9.05	1370.8
755.000	C FORMA	4.195	20.98	3744.3	SUBBAL.	1.809	9.05	1379.9
760.000	C FORMA	2.336	16.33	3760.6	SUBBAL.	0.069	4.69	1384.6
765.000	C FORMA	2.336	11.68	3772.3	SUBBAL.	0.069	0.34	1384.9
770.000	C FORMA	2.336	11.68	3784.0	SUBBAL.	0.069	0.34	1385.3
775.000	C FORMA	2.336	11.68	3795.6	SUBBAL.	0.069	0.34	1385.6
777.153	C FORMA	2.336	5.03	3800.7	SUBBAL.	0.069	0.15	1385.8

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PROYECTO : VARIANTE DE OURENSE
EJE: 20: DESVIO FFCC ACTUAL

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
C FORMA	3800.7
SUBBAL.	1385.8

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	S-CEMEN	1.862	0.00	0.0	S-20	0.572	0.00	0.0
	S-12	0.402	0.00	0.0				
5.000	S-CEMEN	1.862	9.31	9.3	S-20	0.572	2.86	2.9
	S-12	0.402	2.01	2.0				
10.000	S-CEMEN	1.862	9.31	18.6	S-20	0.572	2.86	5.7
	S-12	0.402	2.01	4.0				
15.000	S-CEMEN	1.862	9.31	27.9	S-20	0.572	2.86	8.6
	S-12	0.402	2.01	6.0				
20.000	S-CEMEN	1.862	9.31	37.2	S-20	0.572	2.86	11.4
	S-12	0.402	2.01	8.0				
25.000	S-CEMEN	1.862	9.31	46.5	S-20	0.572	2.86	14.3
	S-12	0.402	2.01	10.1				
26.814	S-CEMEN	1.862	3.38	49.9	S-20	0.572	1.04	15.3
	S-12	0.403	0.73	10.8				
30.000	S-CEMEN	1.862	5.93	55.8	S-20	0.572	1.82	17.2
	S-12	0.403	1.28	12.1				
35.000	S-CEMEN	1.861	9.31	65.2	S-20	0.572	2.86	20.0
	S-12	0.403	2.01	14.1				
40.000	S-CEMEN	1.861	9.31	74.5	S-20	0.572	2.86	22.9
	S-12	0.403	2.01	16.1				
41.084	S-CEMEN	1.862	2.02	76.5	S-20	0.572	0.62	23.5
	S-12	0.403	0.44	16.5				
45.000	S-CEMEN	1.862	7.29	83.8	S-20	0.572	2.24	25.7
	S-12	0.403	1.58	18.1				
50.000	S-CEMEN	1.862	9.31	93.1	S-20	0.572	2.86	28.6
	S-12	0.403	2.01	20.1				
55.000	S-CEMEN	1.862	9.31	102.4	S-20	0.572	2.86	31.5
	S-12	0.403	2.01	22.1				
60.000	S-CEMEN	1.862	9.31	111.7	S-20	0.572	2.86	34.3
	S-12	0.403	2.01	24.1				
65.000	S-CEMEN	1.862	9.31	121.0	S-20	0.572	2.86	37.2
	S-12	0.402	2.01	26.2				
70.000	S-CEMEN	1.862	9.31	130.3	S-20	0.572	2.86	40.0
	S-12	0.403	2.01	28.2				
75.000	S-CEMEN	1.862	9.31	139.6	S-20	0.572	2.86	42.9
	S-12	0.403	2.01	30.2				
80.000	S-CEMEN	1.862	9.31	148.9	S-20	0.572	2.86	45.8
	S-12	0.403	2.01	32.2				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
85.000	S-CEMEN	1.862	9.31	158.2	S-20	0.572	2.86	48.6
	S-12	0.402	2.01	34.2				
90.000	S-CEMEN	1.862	9.31	167.5	S-20	0.572	2.86	51.5
	S-12	0.403	2.01	36.2				
95.000	S-CEMEN	1.862	9.31	176.9	S-20	0.572	2.86	54.3
	S-12	0.402	2.01	38.2				
100.000	S-CEMEN	1.862	9.31	186.2	S-20	0.572	2.86	57.2
	S-12	0.403	2.01	40.2				
105.000	S-CEMEN	1.861	9.31	195.5	S-20	0.572	2.86	60.1
	S-12	0.403	2.01	42.3				
110.000	S-CEMEN	1.862	9.31	204.8	S-20	0.572	2.86	62.9
	S-12	0.403	2.01	44.3				
115.000	S-CEMEN	1.862	9.31	214.1	S-20	0.572	2.86	65.8
	S-12	0.403	2.01	46.3				
120.000	S-CEMEN	1.862	9.31	223.4	S-20	0.572	2.86	68.6
	S-12	0.403	2.01	48.3				
121.465	S-CEMEN	1.861	2.73	226.1	S-20	0.572	0.84	69.5
	S-12	0.403	0.59	48.9				
125.000	S-CEMEN	1.862	6.58	232.7	S-20	0.572	2.02	71.5
	S-12	0.403	1.42	50.3				
127.465	S-CEMEN	1.862	4.59	237.3	S-20	0.572	1.41	72.9
	S-12	0.403	0.99	51.3				
130.000	S-CEMEN	1.862	4.72	242.0	S-20	0.572	1.45	74.4
	S-12	0.403	1.02	52.3				
135.000	S-CEMEN	1.862	9.31	251.3	S-20	0.572	2.86	77.2
	S-12	0.403	2.01	54.3				
140.000	S-CEMEN	1.862	9.31	260.6	S-20	0.572	2.86	80.1
	S-12	0.402	2.01	56.3				
145.000	S-CEMEN	1.862	9.31	269.9	S-20	0.572	2.86	82.9
	S-12	0.403	2.01	58.4				
150.000	S-CEMEN	1.862	9.31	279.2	S-20	0.572	2.86	85.8
	S-12	0.403	2.01	60.4				
155.000	S-CEMEN	1.862	9.31	288.5	S-20	0.572	2.86	88.7
	S-12	0.402	2.01	62.4				
160.000	S-CEMEN	1.862	9.31	297.9	S-20	0.572	2.86	91.5
	S-12	0.403	2.01	64.4				
165.000	S-CEMEN	1.862	9.31	307.2	S-20	0.572	2.86	94.4
	S-12	0.403	2.01	66.4				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
170.000	S-CEMEN	1.892	9.38	316.6	S-20	0.576	2.87	97.2
	S-12	0.403	2.01	68.4				
175.000	S-CEMEN	1.862	9.38	325.9	S-20	0.572	2.87	100.1
	S-12	0.403	2.01	70.4				
180.000	S-CEMEN	1.892	9.38	335.3	S-20	0.576	2.87	103.0
	S-12	0.403	2.01	72.5				
185.000	S-CEMEN	1.892	9.46	344.8	S-20	0.576	2.88	105.9
	S-12	0.403	2.02	74.5				
190.000	S-CEMEN	1.892	9.46	354.2	S-20	0.575	2.88	108.7
	S-12	0.403	2.02	76.5				
195.000	S-CEMEN	1.862	9.38	363.6	S-20	0.572	2.87	111.6
	S-12	0.403	2.01	78.5				
200.000	S-CEMEN	1.892	9.38	373.0	S-20	0.576	2.87	114.5
	S-12	0.403	2.01	80.5				
205.000	S-CEMEN	1.892	9.46	382.5	S-20	0.576	2.88	117.4
	S-12	0.403	2.02	82.5				
210.000	S-CEMEN	1.892	9.46	391.9	S-20	0.576	2.88	120.2
	S-12	0.403	2.02	84.5				
215.000	S-CEMEN	1.892	9.46	401.4	S-20	0.576	2.88	123.1
	S-12	0.403	2.02	86.6				
220.000	S-CEMEN	1.892	9.46	410.8	S-20	0.576	2.88	126.0
	S-12	0.403	2.02	88.6				
225.000	S-CEMEN	1.892	9.46	420.3	S-20	0.576	2.88	128.9
	S-12	0.403	2.02	90.6				
230.000	S-CEMEN	1.892	9.46	429.8	S-20	0.576	2.88	131.7
	S-12	0.403	2.02	92.6				
235.000	S-CEMEN	1.892	9.46	439.2	S-20	0.576	2.88	134.6
	S-12	0.403	2.02	94.6				
240.000	S-CEMEN	1.892	9.46	448.7	S-20	0.576	2.88	137.5
	S-12	0.403	2.02	96.6				
244.599	S-CEMEN	1.892	8.70	457.4	S-20	0.576	2.65	140.1
	S-12	0.403	1.85	98.5				
245.000	S-CEMEN	1.892	0.76	458.1	S-20	0.576	0.23	140.4
	S-12	0.403	0.16	98.7				
245.244	S-CEMEN	1.892	0.46	458.6	S-20	0.575	0.14	140.5
	S-12	0.403	0.10	98.8				
250.000	S-CEMEN	1.891	8.99	467.6	S-20	0.575	2.74	143.3
	S-12	0.403	1.92	100.7				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
255.000	S-CEMEN	1.862	9.38	477.0	S-20	0.572	2.87	146.1
	S-12	0.403	2.01	102.7				
260.000	S-CEMEN	1.861	9.31	486.3	S-20	0.572	2.86	149.0
	S-12	0.403	2.01	104.7				
270.000	S-CEMEN	1.887	18.74	505.0	S-20	0.575	5.73	154.7
	S-12	0.403	4.03	108.7				
274.599	S-CEMEN	1.912	8.74	513.8	S-20	0.578	2.65	157.4
	S-12	0.404	1.86	110.6				
275.000	S-CEMEN	1.912	0.77	514.5	S-20	0.578	0.23	157.6
	S-12	0.404	0.16	110.8				
280.000	S-CEMEN	1.885	9.49	524.0	S-20	0.575	2.88	160.5
	S-12	0.403	2.02	112.8				
285.000	S-CEMEN	1.884	9.42	533.4	S-20	0.575	2.87	163.4
	S-12	0.403	2.01	114.8				
287.203	S-CEMEN	1.913	4.18	537.6	S-20	0.578	1.27	164.6
	S-12	0.404	0.89	115.7				
290.000	S-CEMEN	1.913	5.35	543.0	S-20	0.578	1.62	166.2
	S-12	0.404	1.13	116.8				
292.599	S-CEMEN	1.913	4.97	548.0	S-20	0.578	1.50	167.7
	S-12	0.404	1.05	117.9				
295.000	S-CEMEN	1.913	4.59	552.5	S-20	0.578	1.39	169.1
	S-12	0.404	0.97	118.8				
300.000	S-CEMEN	1.913	9.57	562.1	S-20	0.578	2.89	172.0
	S-12	0.404	2.02	120.8				
305.000	S-CEMEN	1.913	9.57	571.7	S-20	0.578	2.89	174.9
	S-12	0.404	2.02	122.9				
310.000	S-CEMEN	1.913	9.57	581.2	S-20	0.578	2.89	177.8
	S-12	0.404	2.02	124.9				
311.807	S-CEMEN	1.913	3.46	584.7	S-20	0.578	1.04	178.8
	S-12	0.404	0.73	125.6				
315.000	S-CEMEN	1.913	6.11	590.8	S-20	0.578	1.85	180.7
	S-12	0.404	1.29	126.9				
317.203	S-CEMEN	1.913	4.22	595.0	S-20	0.578	1.27	182.0
	S-12	0.404	0.89	127.8				
320.000	S-CEMEN	1.913	5.35	600.4	S-20	0.578	1.62	183.6
	S-12	0.404	1.13	128.9				
325.000	S-CEMEN	1.912	9.56	609.9	S-20	0.578	2.89	186.5
	S-12	0.404	2.02	130.9				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
329.807	S-CEMEN	1.912	9.19	619.1	S-20	0.578	2.78	189.2
	S-12	0.404	1.94	132.9				
330.000	S-CEMEN	1.912	0.37	619.5	S-20	0.578	0.11	189.4
	S-12	0.404	0.08	133.0				
335.000	S-CEMEN	1.912	9.56	629.1	S-20	0.578	2.89	192.3
	S-12	0.404	2.02	135.0				
340.000	S-CEMEN	1.912	9.56	638.6	S-20	0.578	2.89	195.1
	S-12	0.404	2.02	137.0				
345.000	S-CEMEN	1.912	9.56	648.2	S-20	0.578	2.89	198.0
	S-12	0.404	2.02	139.0				
350.000	S-CEMEN	1.913	9.56	657.8	S-20	0.578	2.89	200.9
	S-12	0.404	2.02	141.0				
353.807	S-CEMEN	1.913	7.28	665.0	S-20	0.578	2.20	203.1
	S-12	0.404	1.54	142.6				
355.000	S-CEMEN	1.913	2.28	667.3	S-20	0.578	0.69	203.8
	S-12	0.404	0.48	143.1				
360.000	S-CEMEN	1.913	9.57	676.9	S-20	0.578	2.89	206.7
	S-12	0.404	2.02	145.1				
365.000	S-CEMEN	1.913	9.57	686.5	S-20	0.578	2.89	209.6
	S-12	0.404	2.02	147.1				
370.000	S-CEMEN	1.913	9.57	696.0	S-20	0.578	2.89	212.5
	S-12	0.404	2.02	149.1				
380.000	S-CEMEN	1.862	18.88	714.9	S-20	0.572	5.75	218.2
	S-12	0.403	4.03	153.1				
385.000	S-CEMEN	1.862	9.31	724.2	S-20	0.572	2.86	221.1
	S-12	0.402	2.01	155.2				
389.894	S-CEMEN	1.862	9.11	733.3	S-20	0.572	2.80	223.9
	S-12	0.403	1.97	157.1				
390.000	S-CEMEN	1.883	0.20	733.5	S-20	0.574	0.06	223.9
	S-12	0.403	0.04	157.2				
393.761	S-CEMEN	1.861	7.04	740.6	S-20	0.572	2.16	226.1
	S-12	0.403	1.52	158.7				
395.000	S-CEMEN	1.862	2.31	742.9	S-20	0.572	0.71	226.8
	S-12	0.403	0.50	159.2				
400.000	S-CEMEN	1.861	9.31	752.2	S-20	0.572	2.86	229.7
	S-12	0.403	2.01	161.2				
405.000	S-CEMEN	1.861	9.31	761.5	S-20	0.572	2.86	232.5
	S-12	0.403	2.01	163.2				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
410.000	S-CEMEN	1.861	9.31	770.8	S-20	0.572	2.86	235.4
	S-12	0.402	2.01	165.2				
413.894	S-CEMEN	1.861	7.25	778.0	S-20	0.572	2.23	237.6
	S-12	0.403	1.57	166.8				
415.000	S-CEMEN	1.861	2.06	780.1	S-20	0.572	0.63	238.2
	S-12	0.402	0.45	167.2				
417.761	S-CEMEN	1.861	5.14	785.2	S-20	0.572	1.58	239.8
	S-12	0.402	1.11	168.3				
420.000	S-CEMEN	1.861	4.17	789.4	S-20	0.572	1.28	241.1
	S-12	0.402	0.90	169.2				
425.000	S-CEMEN	1.862	9.31	798.7	S-20	0.572	2.86	244.0
	S-12	0.402	2.01	171.3				
430.000	S-CEMEN	1.862	9.31	808.0	S-20	0.572	2.86	246.8
	S-12	0.402	2.01	173.3				
431.101	S-CEMEN	1.862	2.05	810.1	S-20	0.572	0.63	247.5
	S-12	0.402	0.44	173.7				
433.894	S-CEMEN	1.862	5.20	815.3	S-20	0.572	1.60	249.1
	S-12	0.403	1.12	174.8				
435.000	S-CEMEN	1.862	2.06	817.3	S-20	0.572	0.63	249.7
	S-12	0.403	0.45	175.3				
440.000	S-CEMEN	1.862	9.31	826.6	S-20	0.572	2.86	252.5
	S-12	0.403	2.01	177.3				
445.000	S-CEMEN	1.862	9.31	835.9	S-20	0.572	2.86	255.4
	S-12	0.403	2.01	179.3				
449.273	S-CEMEN	1.862	7.96	843.9	S-20	0.572	2.44	257.9
	S-12	0.403	1.72	181.0				
450.000	S-CEMEN	1.862	1.35	845.2	S-20	0.572	0.42	258.3
	S-12	0.403	0.29	181.3				
455.000	S-CEMEN	1.862	9.31	854.5	S-20	0.572	2.86	261.1
	S-12	0.403	2.01	183.3				
460.000	S-CEMEN	1.862	9.31	863.9	S-20	0.572	2.86	264.0
	S-12	0.403	2.01	185.3				
461.101	S-CEMEN	1.861	2.05	865.9	S-20	0.572	0.63	264.6
	S-12	0.402	0.44	185.8				
465.000	S-CEMEN	1.861	7.26	873.2	S-20	0.572	2.23	266.8
	S-12	0.402	1.57	187.4				
466.873	S-CEMEN	1.861	3.49	876.7	S-20	0.572	1.07	267.9
	S-12	0.402	0.75	188.1				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
470.000	S-CEMEN	1.861	5.82	882.5	S-20	0.572	1.79	269.7
	S-12	0.402	1.26	189.4				
472.042	S-CEMEN	1.861	3.80	886.3	S-20	0.572	1.17	270.9
	S-12	0.402	0.82	190.2				
475.000	S-CEMEN	1.861	5.51	891.8	S-20	0.572	1.69	272.6
	S-12	0.402	1.19	191.4				
480.000	S-CEMEN	1.861	9.31	901.1	S-20	0.572	2.86	275.4
	S-12	0.402	2.01	193.4				
485.000	S-CEMEN	1.861	9.31	910.4	S-20	0.572	2.86	278.3
	S-12	0.402	2.01	195.4				
490.000	S-CEMEN	1.861	9.31	919.7	S-20	0.572	2.86	281.1
	S-12	0.402	2.01	197.4				
494.417	S-CEMEN	1.861	8.22	927.9	S-20	0.572	2.53	283.7
	S-12	0.402	1.78	199.2				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 21 : SOLUCION N-525 DESVIO 4 (TR_B_PC_DESV_E21.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	927.9
S-20	283.7
S-12	199.2

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 22 : SOLUCION N-525 DESVIO 3 (TR_B_PC_DESV_E22.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	S-CEMEN	1.861	0.00	0.0	S-20	0.572	0.00	0.0
	S-12	0.402	0.00	0.0				
5.000	S-CEMEN	1.861	9.31	9.3	S-20	0.572	2.86	2.9
	S-12	0.403	2.01	2.0				
10.000	S-CEMEN	1.861	9.31	18.6	S-20	0.572	2.86	5.7
	S-12	0.402	2.01	4.0				
15.000	S-CEMEN	1.862	9.31	27.9	S-20	0.572	2.86	8.6
	S-12	0.403	2.01	6.0				
20.000	S-CEMEN	1.861	9.31	37.2	S-20	0.572	2.86	11.4
	S-12	0.403	2.01	8.1				
24.091	S-CEMEN	1.862	7.62	44.8	S-20	0.572	2.34	13.8
	S-12	0.402	1.65	9.7				
25.000	S-CEMEN	1.861	1.69	46.5	S-20	0.572	0.52	14.3
	S-12	0.403	0.37	10.1				
30.000	S-CEMEN	1.862	9.31	55.8	S-20	0.572	2.86	17.2
	S-12	0.403	2.01	12.1				
35.000	S-CEMEN	1.861	9.31	65.2	S-20	0.572	2.86	20.0
	S-12	0.403	2.01	14.1				
38.362	S-CEMEN	1.862	6.26	71.4	S-20	0.572	1.92	21.9
	S-12	0.402	1.35	15.4				
40.000	S-CEMEN	1.862	3.05	74.5	S-20	0.572	0.94	22.9
	S-12	0.403	0.66	16.1				
45.000	S-CEMEN	1.861	9.31	83.8	S-20	0.572	2.86	25.7
	S-12	0.403	2.01	18.1				
50.000	S-CEMEN	1.862	9.31	93.1	S-20	0.572	2.86	28.6
	S-12	0.402	2.01	20.1				
55.000	S-CEMEN	1.862	9.31	102.4	S-20	0.572	2.86	31.5
	S-12	0.403	2.01	22.1				
60.000	S-CEMEN	1.862	9.31	111.7	S-20	0.572	2.86	34.3
	S-12	0.403	2.01	24.2				
65.000	S-CEMEN	1.862	9.31	121.0	S-20	0.572	2.86	37.2
	S-12	0.403	2.01	26.2				
70.000	S-CEMEN	1.862	9.31	130.3	S-20	0.572	2.86	40.0
	S-12	0.403	2.01	28.2				
75.000	S-CEMEN	1.862	9.31	139.6	S-20	0.572	2.86	42.9
	S-12	0.403	2.01	30.2				
80.000	S-CEMEN	1.861	9.31	148.9	S-20	0.572	2.86	45.8
	S-12	0.403	2.01	32.2				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 22 : SOLUCION N-525 DESVIO 3 (TR_B_PC_DESV_E22.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
85.000	S-CEMEN	1.862	9.31	158.2	S-20	0.572	2.86	48.6
	S-12	0.402	2.01	34.2				
90.000	S-CEMEN	1.862	9.31	167.5	S-20	0.572	2.86	51.5
	S-12	0.403	2.01	36.2				
95.000	S-CEMEN	1.862	9.31	176.8	S-20	0.572	2.86	54.3
	S-12	0.403	2.01	38.2				
100.000	S-CEMEN	1.862	9.31	186.2	S-20	0.572	2.86	57.2
	S-12	0.402	2.01	40.3				
105.000	S-CEMEN	1.862	9.31	195.5	S-20	0.572	2.86	60.1
	S-12	0.403	2.01	42.3				
110.000	S-CEMEN	1.862	9.31	204.8	S-20	0.572	2.86	62.9
	S-12	0.403	2.01	44.3				
115.000	S-CEMEN	1.862	9.31	214.1	S-20	0.572	2.86	65.8
	S-12	0.402	2.01	46.3				
120.000	S-CEMEN	1.862	9.31	223.4	S-20	0.572	2.86	68.6
	S-12	0.403	2.01	48.3				
125.000	S-CEMEN	1.862	9.31	232.7	S-20	0.572	2.86	71.5
	S-12	0.403	2.01	50.3				
130.000	S-CEMEN	1.862	9.31	242.0	S-20	0.572	2.86	74.4
	S-12	0.402	2.01	52.3				
135.000	S-CEMEN	1.862	9.31	251.3	S-20	0.572	2.86	77.2
	S-12	0.403	2.01	54.3				
140.000	S-CEMEN	1.862	9.31	260.6	S-20	0.572	2.86	80.1
	S-12	0.403	2.01	56.4				
145.000	S-CEMEN	1.862	9.31	269.9	S-20	0.572	2.86	82.9
	S-12	0.402	2.01	58.4				
150.000	S-CEMEN	1.862	9.31	279.2	S-20	0.572	2.86	85.8
	S-12	0.403	2.01	60.4				
155.000	S-CEMEN	1.862	9.31	288.5	S-20	0.572	2.86	88.7
	S-12	0.403	2.01	62.4				
160.000	S-CEMEN	1.861	9.31	297.9	S-20	0.572	2.86	91.5
	S-12	0.403	2.01	64.4				
165.000	S-CEMEN	1.862	9.31	307.2	S-20	0.572	2.86	94.4
	S-12	0.403	2.01	66.4				
170.000	S-CEMEN	1.862	9.31	316.5	S-20	0.572	2.86	97.2
	S-12	0.403	2.01	68.4				
175.000	S-CEMEN	1.862	9.31	325.8	S-20	0.572	2.86	100.1
	S-12	0.403	2.01	70.4				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 22 : SOLUCION N-525 DESVIO 3 (TR_B_PC_DESV_E22.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
180.000	S-CEMEN	1.862	9.31	335.1	S-20	0.572	2.86	103.0
	S-12	0.403	2.01	72.5				
185.000	S-CEMEN	1.862	9.31	344.4	S-20	0.572	2.86	105.8
	S-12	0.403	2.01	74.5				
190.000	S-CEMEN	1.862	9.31	353.7	S-20	0.572	2.86	108.7
	S-12	0.403	2.01	76.5				
195.000	S-CEMEN	1.862	9.31	363.0	S-20	0.572	2.86	111.5
	S-12	0.403	2.01	78.5				
200.000	S-CEMEN	1.862	9.31	372.3	S-20	0.572	2.86	114.4
	S-12	0.403	2.01	80.5				
205.000	S-CEMEN	1.913	9.44	381.8	S-20	0.578	2.87	117.3
	S-12	0.404	2.02	82.5				
210.000	S-CEMEN	1.913	9.57	391.3	S-20	0.578	2.89	120.2
	S-12	0.404	2.02	84.5				
214.662	S-CEMEN	1.912	8.92	400.2	S-20	0.578	2.69	122.9
	S-12	0.404	1.88	86.4				
215.000	S-CEMEN	1.913	0.65	400.9	S-20	0.578	0.20	123.0
	S-12	0.404	0.14	86.6				
220.000	S-CEMEN	1.912	9.56	410.5	S-20	0.578	2.89	125.9
	S-12	0.404	2.02	88.6				
225.000	S-CEMEN	1.912	9.56	420.0	S-20	0.578	2.89	128.8
	S-12	0.404	2.02	90.6				
230.000	S-CEMEN	1.912	9.56	429.6	S-20	0.578	2.89	131.7
	S-12	0.404	2.02	92.6				
231.804	S-CEMEN	1.913	3.45	433.0	S-20	0.578	1.04	132.8
	S-12	0.404	0.73	93.3				
235.000	S-CEMEN	1.913	6.11	439.1	S-20	0.578	1.85	134.6
	S-12	0.404	1.29	94.6				
238.662	S-CEMEN	1.914	7.01	446.1	S-20	0.578	2.12	136.7
	S-12	0.404	1.48	96.1				
240.000	S-CEMEN	1.915	2.56	448.7	S-20	0.578	0.77	137.5
	S-12	0.404	0.54	96.7				
245.000	S-CEMEN	1.916	9.58	458.3	S-20	0.578	2.89	140.4
	S-12	0.404	2.02	98.7				
245.519	S-CEMEN	1.916	0.99	459.3	S-20	0.578	0.30	140.7
	S-12	0.404	0.21	98.9				
250.000	S-CEMEN	1.917	8.59	467.9	S-20	0.578	2.59	143.3
	S-12	0.404	1.81	100.7				

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 22 : SOLUCION N-525 DESVIO 3 (TR_B_PC_DESV_E22.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
255.000	S-CEMEN	1.917	9.58	477.4	S-20	0.578	2.89	146.2
	S-12	0.404	2.02	102.7				
260.000	S-CEMEN	1.917	9.58	487.0	S-20	0.578	2.89	149.1
	S-12	0.404	2.02	104.7				
265.000	S-CEMEN	1.917	9.58	496.6	S-20	0.578	2.89	152.0
	S-12	0.404	2.02	106.8				
270.000	S-CEMEN	1.916	9.58	506.2	S-20	0.578	2.89	154.8
	S-12	0.404	2.02	108.8				
275.000	S-CEMEN	1.890	9.52	515.7	S-20	0.575	2.88	157.7
	S-12	0.403	2.02	110.8				
280.000	S-CEMEN	1.917	9.52	525.2	S-20	0.578	2.88	160.6
	S-12	0.404	2.02	112.8				
285.000	S-CEMEN	1.917	9.58	534.8	S-20	0.578	2.89	163.5
	S-12	0.404	2.02	114.8				
290.000	S-CEMEN	1.890	9.52	544.3	S-20	0.575	2.88	166.4
	S-12	0.403	2.02	116.8				
295.000	S-CEMEN	1.890	9.45	553.8	S-20	0.575	2.88	169.3
	S-12	0.403	2.02	118.9				
300.000	S-CEMEN	1.890	9.45	563.2	S-20	0.575	2.88	172.1
	S-12	0.403	2.02	120.9				
305.000	S-CEMEN	1.863	9.38	572.6	S-20	0.572	2.87	175.0
	S-12	0.403	2.01	122.9				
307.292	S-CEMEN	1.889	4.30	576.9	S-20	0.575	1.31	176.3
	S-12	0.403	0.92	123.8				
310.000	S-CEMEN	1.889	5.12	582.0	S-20	0.575	1.56	177.9
	S-12	0.403	1.09	124.9				
310.506	S-CEMEN	1.889	0.96	583.0	S-20	0.575	0.29	178.2
	S-12	0.403	0.20	125.1				
313.721	S-CEMEN	1.889	6.07	589.0	S-20	0.575	1.85	180.0
	S-12	0.403	1.30	126.4				
315.000	S-CEMEN	1.888	2.42	591.5	S-20	0.575	0.74	180.8
	S-12	0.403	0.52	126.9				
320.000	S-CEMEN	1.861	9.37	600.8	S-20	0.572	2.87	183.6
	S-12	0.402	2.01	128.9				
321.756	S-CEMEN	1.861	3.27	604.1	S-20	0.572	1.00	184.6
	S-12	0.402	0.71	129.6				
325.000	S-CEMEN	1.861	6.04	610.1	S-20	0.572	1.86	186.5
	S-12	0.403	1.31	130.9				

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PROYECTO : VARIANTE DE OURENSE
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EJE : 22 : SOLUCION N-525 DESVIO 3 (TR_B_PC_DESV_E22.vol)

DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
330.000	S-CEMEN	1.861	9.31	619.4	S-20	0.572	2.86	189.3
	S-12	0.403	2.01	133.0				
335.000	S-CEMEN	1.861	9.31	628.8	S-20	0.572	2.86	192.2
	S-12	0.403	2.01	135.0				
340.000	S-CEMEN	1.862	9.31	638.1	S-20	0.572	2.86	195.1
	S-12	0.403	2.01	137.0				
345.000	S-CEMEN	1.862	9.31	647.4	S-20	0.572	2.86	197.9
	S-12	0.402	2.01	139.0				
350.000	S-CEMEN	1.862	9.31	656.7	S-20	0.572	2.86	200.8
	S-12	0.402	2.01	141.0				
355.000	S-CEMEN	1.861	9.31	666.0	S-20	0.572	2.86	203.6
	S-12	0.403	2.01	143.0				
360.000	S-CEMEN	1.861	9.31	675.3	S-20	0.572	2.86	206.5
	S-12	0.403	2.01	145.0				
365.000	S-CEMEN	1.861	9.31	684.6	S-20	0.572	2.86	209.4
	S-12	0.403	2.01	147.0				
370.000	S-CEMEN	1.861	9.31	693.9	S-20	0.572	2.86	212.2
	S-12	0.403	2.01	149.1				
375.000	S-CEMEN	1.861	9.31	703.2	S-20	0.572	2.86	215.1
	S-12	0.403	2.01	151.1				
380.000	S-CEMEN	1.891	9.38	712.6	S-20	0.575	2.87	217.9
	S-12	0.403	2.02	153.1				
385.000	S-CEMEN	1.891	9.46	722.0	S-20	0.576	2.88	220.8
	S-12	0.403	2.02	155.1				
390.000	S-CEMEN	1.891	9.45	731.5	S-20	0.575	2.88	223.7
	S-12	0.403	2.02	157.1				
395.000	S-CEMEN	1.861	9.38	740.9	S-20	0.572	2.87	226.6
	S-12	0.403	2.01	159.1				
400.000	S-CEMEN	1.862	9.31	750.2	S-20	0.572	2.86	229.4
	S-12	0.403	2.01	161.2				
405.000	S-CEMEN	1.861	9.31	759.5	S-20	0.572	2.86	232.3
	S-12	0.402	2.01	163.2				
405.737	S-CEMEN	1.861	1.37	760.9	S-20	0.572	0.42	232.7
	S-12	0.403	0.30	163.5				
405.756	S-CEMEN	1.861	0.04	760.9	S-20	0.572	0.01	232.7
	S-12	0.403	0.01	163.5				
410.000	S-CEMEN	1.862	7.90	768.8	S-20	0.572	2.43	235.1
	S-12	0.402	1.71	165.2				

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DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
415.000	S-CEMEN	1.861	9.31	778.1	S-20	0.572	2.86	238.0
	S-12	0.402	2.01	167.2				
416.987	S-CEMEN	1.861	3.70	781.8	S-20	0.572	1.14	239.1
	S-12	0.402	0.80	168.0				
417.006	S-CEMEN	1.861	0.04	781.8	S-20	0.572	0.01	239.2
	S-12	0.403	0.01	168.0				
420.000	S-CEMEN	1.861	5.57	787.4	S-20	0.572	1.71	240.9
	S-12	0.402	1.21	169.2				
425.000	S-CEMEN	1.861	9.31	796.7	S-20	0.572	2.86	243.7
	S-12	0.403	2.01	171.2				
429.844	S-CEMEN	1.884	9.07	805.8	S-20	0.575	2.78	246.5
	S-12	0.403	1.95	173.2				
429.863	S-CEMEN	1.883	0.04	805.8	S-20	0.574	0.01	246.5
	S-12	0.403	0.01	173.2				
430.000	S-CEMEN	1.884	0.26	806.1	S-20	0.574	0.08	246.6
	S-12	0.403	0.06	173.2				
435.000	S-CEMEN	1.883	9.42	815.5	S-20	0.574	2.87	249.5
	S-12	0.403	2.02	175.2				
440.000	S-CEMEN	1.883	9.42	824.9	S-20	0.574	2.87	252.3
	S-12	0.403	2.02	177.3				
445.000	S-CEMEN	1.862	9.36	834.3	S-20	0.572	2.87	255.2
	S-12	0.403	2.01	179.3				
450.000	S-CEMEN	1.862	9.31	843.6	S-20	0.572	2.86	258.1
	S-12	0.403	2.01	181.3				
455.000	S-CEMEN	1.862	9.31	852.9	S-20	0.572	2.86	260.9
	S-12	0.403	2.01	183.3				
460.000	S-CEMEN	1.861	9.31	862.2	S-20	0.572	2.86	263.8
	S-12	0.403	2.01	185.3				
465.000	S-CEMEN	1.862	9.31	871.5	S-20	0.572	2.86	266.6
	S-12	0.402	2.01	187.3				
467.921	S-CEMEN	1.862	5.44	877.0	S-20	0.572	1.67	268.3
	S-12	0.402	1.18	188.5				
467.974	S-CEMEN	1.862	0.10	877.1	S-20	0.572	0.03	268.3
	S-12	0.403	0.02	188.5				
470.000	S-CEMEN	1.862	3.77	880.8	S-20	0.572	1.16	269.5
	S-12	0.402	0.82	189.3				
475.000	S-CEMEN	1.862	9.31	890.1	S-20	0.572	2.86	272.4
	S-12	0.403	2.01	191.3				

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DESVIO N-525

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
480.000	S-CEMEN	1.861	9.31	899.4	S-20	0.572	2.86	275.2
	S-12	0.402	2.01	193.4				
480.178	S-CEMEN	1.861	0.33	899.8	S-20	0.572	0.10	275.3
	S-12	0.403	0.07	193.4				
480.231	S-CEMEN	1.861	0.10	899.9	S-20	0.572	0.03	275.4
	S-12	0.403	0.02	193.5				
485.000	S-CEMEN	1.861	8.88	908.7	S-20	0.572	2.73	278.1
	S-12	0.402	1.92	195.4				
490.000	S-CEMEN	1.861	9.31	918.0	S-20	0.572	2.86	280.9
	S-12	0.403	2.01	197.4				
495.000	S-CEMEN	1.861	9.31	927.4	S-20	0.572	2.86	283.8
	S-12	0.402	2.01	199.4				
500.000	S-CEMEN	1.861	9.31	936.7	S-20	0.572	2.86	286.7
	S-12	0.403	2.01	201.4				
505.000	S-CEMEN	1.861	9.31	946.0	S-20	0.572	2.86	289.5
	S-12	0.403	2.01	203.4				
510.000	S-CEMEN	1.861	9.31	955.3	S-20	0.572	2.86	292.4
	S-12	0.402	2.01	205.4				
515.000	S-CEMEN	1.861	9.31	964.6	S-20	0.572	2.86	295.2
	S-12	0.403	2.01	207.4				
519.080	S-CEMEN	1.861	7.59	972.2	S-20	0.572	2.33	297.6
	S-12	0.403	1.64	209.1				

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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	972.2
S-20	297.6
S-12	209.1

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	S-CEMEN	1.700	0.00	0.0	G-25	0.576	0.00	0.0
	S-20	0.406	0.00	0.0	M-10	0.241	0.00	0.0
5.000	S-CEMEN	1.704	8.51	8.5	G-25	0.577	2.88	2.9
	S-20	0.406	2.03	2.0	M-10	0.242	1.21	1.2
10.000	S-CEMEN	1.707	8.53	17.0	G-25	0.579	2.89	5.8
	S-20	0.407	2.03	4.1	M-10	0.242	1.21	2.4
10.323	S-CEMEN	1.707	0.55	17.6	G-25	0.579	0.19	6.0
	S-20	0.407	0.13	4.2	M-10	0.242	0.08	2.5
15.000	S-CEMEN	1.715	8.00	25.6	G-25	0.581	2.71	8.7
	S-20	0.409	1.91	6.1	M-10	0.243	1.13	3.6
19.586	S-CEMEN	1.722	7.88	33.5	G-25	0.584	2.67	11.3
	S-20	0.411	1.88	8.0	M-10	0.244	1.12	4.7
20.000	S-CEMEN	1.722	0.71	34.2	G-25	0.584	0.24	11.6
	S-20	0.411	0.17	8.2	M-10	0.244	0.10	4.8
21.103	S-CEMEN	1.722	1.90	36.1	G-25	0.584	0.64	12.2
	S-20	0.411	0.45	8.6	M-10	0.244	0.27	5.1
25.000	S-CEMEN	1.721	6.71	42.8	G-25	0.583	2.27	14.5
	S-20	0.411	1.60	10.2	M-10	0.244	0.95	6.1
27.423	S-CEMEN	1.721	4.17	47.0	G-25	0.583	1.41	15.9
	S-20	0.411	0.99	11.2	M-10	0.244	0.59	6.7
30.000	S-CEMEN	1.717	4.43	51.4	G-25	0.582	1.50	17.4
	S-20	0.410	1.06	12.3	M-10	0.244	0.63	7.3
32.714	S-CEMEN	1.713	4.65	56.0	G-25	0.581	1.58	19.0
	S-20	0.409	1.11	13.4	M-10	0.243	0.66	7.9
35.000	S-CEMEN	1.711	3.91	60.0	G-25	0.580	1.33	20.3
	S-20	0.408	0.93	14.3	M-10	0.242	0.55	8.5
39.245	S-CEMEN	1.706	7.25	67.2	G-25	0.578	2.46	22.8
	S-20	0.407	1.73	16.0	M-10	0.242	1.03	9.5
40.000	S-CEMEN	1.705	1.29	68.5	G-25	0.578	0.44	23.2
	S-20	0.407	0.31	16.3	M-10	0.242	0.18	9.7
45.000	S-CEMEN	1.707	8.53	77.0	G-25	0.578	2.89	26.1
	S-20	0.407	2.03	18.4	M-10	0.242	1.21	10.9
46.165	S-CEMEN	1.707	1.99	79.0	G-25	0.579	0.67	26.8
	S-20	0.407	0.47	18.8	M-10	0.242	0.28	11.2
46.472	S-CEMEN	1.706	0.52	79.5	G-25	0.578	0.18	27.0
	S-20	0.407	0.13	19.0	M-10	0.242	0.07	11.3
50.000	S-CEMEN	1.698	6.01	85.5	G-25	0.575	2.04	29.0
	S-20	0.405	1.43	20.4	M-10	0.241	0.85	12.1

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RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
51.397	S-CEMEN	1.695	2.37	87.9	G-25	0.574	0.80	29.8
	S-20	0.404	0.57	21.0	M-10	0.240	0.34	12.5
52.114	S-CEMEN	1.696	1.22	89.1	G-25	0.575	0.41	30.2
	S-20	0.405	0.29	21.3	M-10	0.240	0.17	12.6
55.000	S-CEMEN	1.692	4.89	94.0	G-25	0.573	1.66	31.9
	S-20	0.404	1.17	22.4	M-10	0.240	0.69	13.3
56.213	S-CEMEN	1.691	2.05	96.1	G-25	0.573	0.70	32.6
	S-20	0.403	0.49	22.9	M-10	0.239	0.29	13.6
57.072	S-CEMEN	1.681	1.45	97.5	G-25	0.569	0.49	33.1
	S-20	0.401	0.35	23.3	M-10	0.238	0.20	13.8
60.000	S-CEMEN	1.676	4.91	102.4	G-25	0.568	1.66	34.7
	S-20	0.400	1.17	24.4	M-10	0.237	0.70	14.5
65.000	S-CEMEN	1.668	8.36	110.8	G-25	0.565	2.83	37.6
	S-20	0.397	1.99	26.4	M-10	0.236	1.18	15.7
65.217	S-CEMEN	1.667	0.36	111.2	G-25	0.565	0.12	37.7
	S-20	0.397	0.09	26.5	M-10	0.236	0.05	15.7
70.000	S-CEMEN	1.655	7.94	119.1	G-25	0.560	2.69	40.4
	S-20	0.394	1.89	28.4	M-10	0.234	1.12	16.9
75.000	S-CEMEN	1.643	8.24	127.3	G-25	0.556	2.79	43.2
	S-20	0.391	1.96	30.4	M-10	0.232	1.17	18.0
76.207	S-CEMEN	1.640	1.98	129.3	G-25	0.555	0.67	43.8
	S-20	0.391	0.47	30.8	M-10	0.232	0.28	18.3
80.000	S-CEMEN	1.628	6.20	135.5	G-25	0.551	2.10	45.9
	S-20	0.388	1.48	32.3	M-10	0.230	0.88	19.2
84.407	S-CEMEN	1.615	7.15	142.7	G-25	0.547	2.42	48.3
	S-20	0.384	1.70	34.0	M-10	0.228	1.01	20.2
85.000	S-CEMEN	1.614	0.96	143.6	G-25	0.546	0.32	48.7
	S-20	0.384	0.23	34.2	M-10	0.228	0.14	20.3
88.959	S-CEMEN	1.600	6.36	150.0	G-25	0.541	2.15	50.8
	S-20	0.381	1.51	35.8	M-10	0.226	0.90	21.2
90.000	S-CEMEN	1.599	1.67	151.7	G-25	0.541	0.56	51.4
	S-20	0.380	0.40	36.2	M-10	0.226	0.23	21.5
95.000	S-CEMEN	1.591	7.97	159.6	G-25	0.538	2.70	54.1
	S-20	0.378	1.90	38.1	M-10	0.224	1.12	22.6
100.000	S-CEMEN	1.583	7.94	167.6	G-25	0.535	2.68	56.8
	S-20	0.376	1.89	39.9	M-10	0.223	1.12	23.7
100.513	S-CEMEN	1.582	0.81	168.4	G-25	0.535	0.27	57.0
	S-20	0.376	0.19	40.1	M-10	0.223	0.11	23.8

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* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
105.000	S-CEMEN	1.594	7.13	175.5	G-25	0.539	2.41	59.4
	S-20	0.379	1.69	41.8	M-10	0.225	1.00	24.8
107.148	S-CEMEN	1.600	3.43	178.9	G-25	0.541	1.16	60.6
	S-20	0.381	0.82	42.6	M-10	0.226	0.48	25.3
110.000	S-CEMEN	1.604	4.57	183.5	G-25	0.543	1.55	62.1
	S-20	0.382	1.09	43.7	M-10	0.226	0.64	26.0
115.000	S-CEMEN	1.612	8.04	191.5	G-25	0.545	2.72	64.9
	S-20	0.384	1.91	45.6	M-10	0.228	1.14	27.1
115.878	S-CEMEN	1.614	1.42	193.0	G-25	0.546	0.48	65.3
	S-20	0.384	0.34	46.0	M-10	0.228	0.20	27.3
120.000	S-CEMEN	1.625	6.67	199.6	G-25	0.550	2.26	67.6
	S-20	0.387	1.59	47.6	M-10	0.229	0.94	28.2
120.944	S-CEMEN	1.628	1.54	201.2	G-25	0.550	0.52	68.1
	S-20	0.387	0.37	47.9	M-10	0.230	0.22	28.5
125.000	S-CEMEN	1.636	6.62	207.8	G-25	0.554	2.24	70.4
	S-20	0.390	1.58	49.5	M-10	0.231	0.93	29.4
125.103	S-CEMEN	1.637	0.17	208.0	G-25	0.554	0.06	70.4
	S-20	0.390	0.04	49.6	M-10	0.231	0.02	29.4
130.000	S-CEMEN	1.642	8.03	216.0	G-25	0.556	2.72	73.1
	S-20	0.391	1.91	51.5	M-10	0.232	1.13	30.5
132.170	S-CEMEN	1.645	3.57	219.6	G-25	0.557	1.21	74.3
	S-20	0.392	0.85	52.3	M-10	0.233	0.50	31.1
135.000	S-CEMEN	1.646	4.66	224.2	G-25	0.557	1.58	75.9
	S-20	0.392	1.11	53.4	M-10	0.233	0.66	31.7
140.000	S-CEMEN	1.648	8.23	232.4	G-25	0.558	2.79	78.7
	S-20	0.392	1.96	55.4	M-10	0.233	1.16	32.9
142.342	S-CEMEN	1.649	3.86	236.3	G-25	0.558	1.31	80.0
	S-20	0.393	0.92	56.3	M-10	0.233	0.55	33.4
145.000	S-CEMEN	1.661	4.40	240.7	G-25	0.562	1.49	81.5
	S-20	0.396	1.05	57.4	M-10	0.235	0.62	34.0
145.483	S-CEMEN	1.664	0.80	241.5	G-25	0.563	0.27	81.8
	S-20	0.397	0.19	57.5	M-10	0.235	0.11	34.2
146.414	S-CEMEN	1.666	1.55	243.1	G-25	0.564	0.52	82.3
	S-20	0.397	0.37	57.9	M-10	0.236	0.22	34.4
147.359	S-CEMEN	1.668	1.58	244.6	G-25	0.565	0.53	82.8
	S-20	0.397	0.38	58.3	M-10	0.236	0.22	34.6
148.065	S-CEMEN	1.667	1.18	245.8	G-25	0.564	0.40	83.2
	S-20	0.397	0.28	58.6	M-10	0.236	0.17	34.8

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
150.000	S-CEMEN	1.663	3.22	249.0	G-25	0.563	1.09	84.3
	S-20	0.396	0.77	59.3	M-10	0.235	0.46	35.2
150.502	S-CEMEN	1.662	0.83	249.9	G-25	0.563	0.28	84.6
	S-20	0.396	0.20	59.5	M-10	0.235	0.12	35.3
155.000	S-CEMEN	1.677	7.51	257.4	G-25	0.568	2.54	87.1
	S-20	0.400	1.79	61.3	M-10	0.237	1.06	36.4
158.020	S-CEMEN	1.686	5.08	262.5	G-25	0.571	1.72	88.9
	S-20	0.402	1.21	62.5	M-10	0.239	0.72	37.1
160.000	S-CEMEN	1.684	3.34	265.8	G-25	0.570	1.13	90.0
	S-20	0.402	0.80	63.3	M-10	0.238	0.47	37.6
163.753	S-CEMEN	1.680	6.31	272.1	G-25	0.569	2.14	92.1
	S-20	0.401	1.51	64.8	M-10	0.238	0.89	38.5
165.000	S-CEMEN	1.683	2.10	274.2	G-25	0.570	0.71	92.8
	S-20	0.401	0.50	65.3	M-10	0.238	0.30	38.8
170.000	S-CEMEN	1.694	8.44	282.6	G-25	0.574	2.86	95.7
	S-20	0.404	2.01	67.3	M-10	0.240	1.20	40.0
170.704	S-CEMEN	1.695	1.19	283.8	G-25	0.574	0.40	96.1
	S-20	0.404	0.28	67.6	M-10	0.240	0.17	40.1
175.000	S-CEMEN	1.723	7.34	291.2	G-25	0.584	2.49	98.6
	S-20	0.411	1.75	69.4	M-10	0.244	1.04	41.2
178.209	S-CEMEN	1.744	5.56	296.7	G-25	0.591	1.89	100.5
	S-20	0.417	1.33	70.7	M-10	0.247	0.79	42.0
180.000	S-CEMEN	1.755	3.13	299.9	G-25	0.595	1.06	101.5
	S-20	0.419	0.75	71.5	M-10	0.249	0.44	42.4
185.000	S-CEMEN	1.784	8.85	308.7	G-25	0.605	3.00	104.5
	S-20	0.427	2.12	73.6	M-10	0.253	1.26	43.7
185.322	S-CEMEN	1.786	0.57	309.3	G-25	0.606	0.20	104.7
	S-20	0.427	0.14	73.7	M-10	0.254	0.08	43.8
190.000	S-CEMEN	1.812	8.42	317.7	G-25	0.615	2.86	107.6
	S-20	0.433	2.01	75.7	M-10	0.258	1.20	45.0
192.955	S-CEMEN	1.829	5.38	323.1	G-25	0.621	1.83	109.4
	S-20	0.438	1.29	77.0	M-10	0.260	0.76	45.7
195.000	S-CEMEN	1.838	3.75	326.8	G-25	0.624	1.27	110.7
	S-20	0.440	0.90	77.9	M-10	0.261	0.53	46.2
200.000	S-CEMEN	1.861	9.25	336.1	G-25	0.633	3.14	113.8
	S-20	0.446	2.21	80.1	M-10	0.265	1.32	47.6
201.042	S-CEMEN	1.866	1.94	338.0	G-25	0.634	0.66	114.5
	S-20	0.447	0.47	80.6	M-10	0.265	0.28	47.8

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
205.000	S-CEMEN	1.895	7.44	345.5	G-25	0.644	2.53	117.0
	S-20	0.454	1.78	82.4	M-10	0.270	1.06	48.9
209.358	S-CEMEN	1.926	8.33	353.8	G-25	0.655	2.83	119.9
	S-20	0.462	2.00	84.4	M-10	0.275	1.19	50.1
210.000	S-CEMEN	1.929	1.24	355.0	G-25	0.656	0.42	120.3
	S-20	0.463	0.30	84.7	M-10	0.275	0.18	50.3
215.000	S-CEMEN	1.946	9.69	364.7	G-25	0.662	3.29	123.6
	S-20	0.467	2.33	87.0	M-10	0.277	1.38	51.6
215.004	S-CEMEN	1.946	0.01	364.7	G-25	0.662	0.00	123.6
	S-20	0.467	0.00	87.0	M-10	0.277	0.00	51.6
220.000	S-CEMEN	1.974	9.79	374.5	G-25	0.672	3.33	126.9
	S-20	0.474	2.35	89.4	M-10	0.282	1.40	53.0
222.604	S-CEMEN	1.989	5.16	379.7	G-25	0.677	1.76	128.7
	S-20	0.478	1.24	90.6	M-10	0.284	0.74	53.8
225.000	S-CEMEN	2.006	4.79	384.5	G-25	0.683	1.63	130.3
	S-20	0.482	1.15	91.7	M-10	0.287	0.68	54.5
230.000	S-CEMEN	2.063	10.17	394.6	G-25	0.699	3.46	133.8
	S-20	0.492	2.44	94.2	M-10	0.292	1.45	55.9
231.550	S-CEMEN	2.074	3.21	397.8	G-25	0.703	1.09	134.8
	S-20	0.495	0.76	94.9	M-10	0.294	0.45	56.4
235.000	S-CEMEN	2.095	7.19	405.0	G-25	0.710	2.44	137.3
	S-20	0.500	1.72	96.7	M-10	0.297	1.02	57.4
239.390	S-CEMEN	2.122	9.26	414.3	G-25	0.720	3.14	140.4
	S-20	0.507	2.21	98.9	M-10	0.301	1.31	58.7
240.000	S-CEMEN	2.126	1.30	415.6	G-25	0.721	0.44	140.9
	S-20	0.508	0.31	99.2	M-10	0.302	0.18	58.9
245.000	S-CEMEN	2.142	10.67	426.3	G-25	0.731	3.63	144.5
	S-20	0.516	2.56	101.7	M-10	0.307	1.52	60.4
250.000	S-CEMEN	2.179	10.80	437.1	G-25	0.743	3.68	148.2
	S-20	0.525	2.60	104.3	M-10	0.313	1.55	62.0
251.249	S-CEMEN	2.188	2.73	439.8	G-25	0.747	0.93	149.1
	S-20	0.528	0.66	105.0	M-10	0.314	0.39	62.3
254.892	S-CEMEN	2.184	7.96	447.8	G-25	0.745	2.72	151.8
	S-20	0.527	1.92	106.9	M-10	0.314	1.14	63.5
255.000	S-CEMEN	2.185	0.24	448.0	G-25	0.746	0.08	151.9
	S-20	0.527	0.06	107.0	M-10	0.313	0.03	63.5
260.000	S-CEMEN	2.218	11.01	459.0	G-25	0.757	3.76	155.7
	S-20	0.535	2.65	109.6	M-10	0.319	1.58	65.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
261.619	S-CEMEN	2.229	3.60	462.6	G-25	0.761	1.23	156.9
	S-20	0.538	0.87	110.5	M-10	0.320	0.52	65.6
262.811	S-CEMEN	2.239	2.66	465.3	G-25	0.765	0.91	157.8
	S-20	0.540	0.64	111.1	M-10	0.321	0.38	66.0
264.013	S-CEMEN	2.250	2.70	468.0	G-25	0.768	0.92	158.7
	S-20	0.543	0.65	111.8	M-10	0.323	0.39	66.4
265.000	S-CEMEN	2.257	2.22	470.2	G-25	0.771	0.76	159.5
	S-20	0.545	0.54	112.3	M-10	0.324	0.32	66.7
265.216	S-CEMEN	2.259	0.49	470.7	G-25	0.771	0.17	159.6
	S-20	0.545	0.12	112.4	M-10	0.324	0.07	66.8
266.418	S-CEMEN	2.269	2.72	473.4	G-25	0.775	0.93	160.6
	S-20	0.548	0.66	113.1	M-10	0.326	0.39	67.2
267.620	S-CEMEN	2.278	2.73	476.1	G-25	0.778	0.93	161.5
	S-20	0.550	0.66	113.8	M-10	0.328	0.39	67.6
268.822	S-CEMEN	2.287	2.74	478.9	G-25	0.782	0.94	162.4
	S-20	0.552	0.66	114.4	M-10	0.329	0.39	68.0
270.000	S-CEMEN	2.295	2.70	481.6	G-25	0.784	0.92	163.4
	S-20	0.554	0.65	115.1	M-10	0.330	0.39	68.3
270.025	S-CEMEN	2.295	0.06	481.6	G-25	0.784	0.02	163.4
	S-20	0.554	0.01	115.1	M-10	0.330	0.01	68.4
271.226	S-CEMEN	2.304	2.76	484.4	G-25	0.787	0.94	164.3
	S-20	0.557	0.67	115.8	M-10	0.331	0.40	68.7
272.429	S-CEMEN	2.312	2.78	487.2	G-25	0.790	0.95	165.3
	S-20	0.559	0.67	116.4	M-10	0.332	0.40	69.1
273.631	S-CEMEN	2.320	2.78	489.9	G-25	0.793	0.95	166.2
	S-20	0.560	0.67	117.1	M-10	0.334	0.40	69.5
274.844	S-CEMEN	2.328	2.82	492.8	G-25	0.796	0.96	167.2
	S-20	0.563	0.68	117.8	M-10	0.335	0.41	70.0
275.000	S-CEMEN	2.329	0.36	493.1	G-25	0.796	0.12	167.3
	S-20	0.563	0.09	117.9	M-10	0.335	0.05	70.0
275.911	S-CEMEN	2.335	2.12	495.3	G-25	0.798	0.73	168.0
	S-20	0.564	0.51	118.4	M-10	0.336	0.31	70.3
276.978	S-CEMEN	2.341	2.49	497.8	G-25	0.800	0.85	168.9
	S-20	0.566	0.60	119.0	M-10	0.337	0.36	70.7
278.046	S-CEMEN	2.346	2.50	500.3	G-25	0.802	0.86	169.8
	S-20	0.567	0.60	119.6	M-10	0.338	0.36	71.0
279.124	S-CEMEN	2.353	2.53	502.8	G-25	0.805	0.87	170.6
	S-20	0.569	0.61	120.2	M-10	0.338	0.36	71.4

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
280.000	S-CEMEN	2.359	2.06	504.9	G-25	0.807	0.71	171.3
	S-20	0.571	0.50	120.7	M-10	0.339	0.30	71.7
280.191	S-CEMEN	2.361	0.45	505.3	G-25	0.807	0.15	171.5
	S-20	0.570	0.11	120.8	M-10	0.340	0.06	71.8
281.260	S-CEMEN	2.366	2.53	507.8	G-25	0.809	0.86	172.3
	S-20	0.572	0.61	121.4	M-10	0.341	0.36	72.1
282.339	S-CEMEN	2.373	2.56	510.4	G-25	0.811	0.87	173.2
	S-20	0.574	0.62	122.0	M-10	0.342	0.37	72.5
283.408	S-CEMEN	2.377	2.54	512.9	G-25	0.813	0.87	174.1
	S-20	0.575	0.61	122.7	M-10	0.343	0.37	72.9
284.478	S-CEMEN	2.385	2.55	515.5	G-25	0.815	0.87	175.0
	S-20	0.577	0.62	123.3	M-10	0.344	0.37	73.2
285.000	S-CEMEN	2.387	1.25	516.7	G-25	0.817	0.43	175.4
	S-20	0.578	0.30	123.6	M-10	0.344	0.18	73.4
285.548	S-CEMEN	2.391	1.31	518.0	G-25	0.818	0.45	175.8
	S-20	0.578	0.32	123.9	M-10	0.345	0.19	73.6
286.619	S-CEMEN	2.395	2.56	520.6	G-25	0.820	0.88	176.7
	S-20	0.580	0.62	124.5	M-10	0.345	0.37	74.0
290.000	S-CEMEN	2.398	8.10	528.7	G-25	0.821	2.77	179.5
	S-20	0.580	1.96	126.5	M-10	0.345	1.17	75.1
291.797	S-CEMEN	2.400	4.31	533.0	G-25	0.821	1.48	181.0
	S-20	0.581	1.04	127.5	M-10	0.346	0.62	75.7
295.000	S-CEMEN	2.410	7.70	540.7	G-25	0.824	2.64	183.6
	S-20	0.583	1.86	129.4	M-10	0.347	1.11	76.9
296.910	S-CEMEN	2.416	4.61	545.3	G-25	0.827	1.58	185.2
	S-20	0.585	1.12	130.5	M-10	0.348	0.66	77.5
296.922	S-CEMEN	2.416	0.03	545.3	G-25	0.827	0.01	185.2
	S-20	0.585	0.01	130.5	M-10	0.348	0.00	77.5
298.956	S-CEMEN	2.417	4.91	550.3	G-25	0.827	1.68	186.9
	S-20	0.585	1.19	131.7	M-10	0.349	0.71	78.2
300.000	S-CEMEN	2.414	2.52	552.8	G-25	0.826	0.86	187.7
	S-20	0.584	0.61	132.3	M-10	0.348	0.36	78.6
304.953	S-CEMEN	2.400	11.92	564.7	G-25	0.822	4.08	191.8
	S-20	0.581	2.88	135.2	M-10	0.346	1.72	80.3
305.000	S-CEMEN	2.401	0.11	564.8	G-25	0.821	0.04	191.8
	S-20	0.581	0.03	135.2	M-10	0.346	0.02	80.3
310.000	S-CEMEN	2.386	11.97	576.8	G-25	0.816	4.09	195.9
	S-20	0.577	2.89	138.1	M-10	0.344	1.72	82.1

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PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
310.733	S-CEMEN	2.384	1.75	578.5	G-25	0.816	0.60	196.5
	S-20	0.576	0.42	138.5	M-10	0.343	0.25	82.3
315.000	S-CEMEN	2.368	10.14	588.7	G-25	0.810	3.47	200.0
	S-20	0.572	2.45	141.0	M-10	0.341	1.46	83.8
317.452	S-CEMEN	2.360	5.80	594.5	G-25	0.807	1.98	202.0
	S-20	0.570	1.40	142.4	M-10	0.340	0.84	84.6
320.000	S-CEMEN	2.341	5.99	600.5	G-25	0.801	2.05	204.0
	S-20	0.566	1.45	143.8	M-10	0.337	0.86	85.5
324.027	S-CEMEN	2.312	9.37	609.8	G-25	0.790	3.20	207.2
	S-20	0.558	2.26	146.1	M-10	0.333	1.35	86.8
325.000	S-CEMEN	2.303	2.25	612.1	G-25	0.788	0.77	208.0
	S-20	0.556	0.54	146.6	M-10	0.331	0.32	87.1
330.000	S-CEMEN	2.262	11.41	623.5	G-25	0.773	3.90	211.9
	S-20	0.546	2.76	149.4	M-10	0.325	1.64	88.8
332.311	S-CEMEN	2.243	5.21	628.7	G-25	0.766	1.78	213.7
	S-20	0.542	1.26	150.6	M-10	0.322	0.75	89.5
335.000	S-CEMEN	2.210	5.99	634.7	G-25	0.755	2.05	215.7
	S-20	0.533	1.44	152.1	M-10	0.317	0.86	90.4
339.588	S-CEMEN	2.154	10.01	644.7	G-25	0.735	3.42	219.2
	S-20	0.519	2.41	154.5	M-10	0.309	1.44	91.8
340.000	S-CEMEN	2.149	0.89	645.6	G-25	0.733	0.30	219.5
	S-20	0.518	0.21	154.7	M-10	0.308	0.13	92.0
340.136	S-CEMEN	2.147	0.29	645.9	G-25	0.732	0.10	219.6
	S-20	0.517	0.07	154.8	M-10	0.308	0.04	92.0
345.000	S-CEMEN	2.100	10.33	656.2	G-25	0.716	3.52	223.1
	S-20	0.505	2.49	157.3	M-10	0.300	1.48	93.5
348.291	S-CEMEN	2.067	6.86	663.1	G-25	0.705	2.34	225.4
	S-20	0.497	1.65	158.9	M-10	0.296	0.98	94.5
350.000	S-CEMEN	2.049	3.52	666.6	G-25	0.698	1.20	226.6
	S-20	0.493	0.85	159.8	M-10	0.293	0.50	95.0
355.000	S-CEMEN	1.998	10.12	676.7	G-25	0.680	3.45	230.1
	S-20	0.480	2.43	162.2	M-10	0.286	1.45	96.4
356.340	S-CEMEN	1.985	2.67	679.4	G-25	0.676	0.91	231.0
	S-20	0.477	0.64	162.8	M-10	0.283	0.38	96.8
360.000	S-CEMEN	1.959	7.22	686.6	G-25	0.667	2.46	233.4
	S-20	0.470	1.73	164.6	M-10	0.280	1.03	97.8
363.840	S-CEMEN	1.933	7.47	694.0	G-25	0.658	2.54	236.0
	S-20	0.464	1.79	166.4	M-10	0.276	1.07	98.9

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PROYECTO : VARIANTE DE OURENSE
GRUPO : 7 : Desvios
C.R.S. : ETRS89 (HUSO 31)
EJE : 23 : SOLUCION N-525 SITUACION FINAL (TR_B_PC_DESV_E23.vol)

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
365.000	S-CEMEN	2.806	2.75	696.8	G-25	0.964	0.94	236.9
	S-20	0.682	0.66	167.0	M-10	0.407	0.40	99.3
365.175	S-CEMEN	2.939	0.50	697.3	G-25	1.010	0.17	237.1
	S-20	0.715	0.12	167.2	M-10	0.427	0.07	99.4
370.000	S-CEMEN	2.921	14.14	711.4	G-25	1.004	4.86	241.9
	S-20	0.711	3.44	170.6	M-10	0.424	2.05	101.4
375.000	S-CEMEN	2.904	14.56	726.0	G-25	0.997	5.00	246.9
	S-20	0.706	3.54	174.1	M-10	0.422	2.11	103.5
378.113	S-CEMEN	2.893	9.02	735.0	G-25	0.994	3.10	250.0
	S-20	0.704	2.19	176.3	M-10	0.420	1.31	104.8
380.000	S-CEMEN	2.884	5.45	740.5	G-25	0.991	1.87	251.9
	S-20	0.702	1.33	177.7	M-10	0.419	0.79	105.6
385.000	S-CEMEN	2.864	14.37	754.8	G-25	0.984	4.94	256.8
	S-20	0.696	3.50	181.2	M-10	0.415	2.08	107.7
389.588	S-CEMEN	2.845	13.10	767.9	G-25	0.977	4.50	261.3
	S-20	0.691	3.18	184.3	M-10	0.413	1.90	109.6
390.000	S-CEMEN	2.842	1.17	769.1	G-25	0.976	0.40	261.7
	S-20	0.691	0.28	184.6	M-10	0.412	0.17	109.8
395.000	S-CEMEN	2.821	14.16	783.3	G-25	0.969	4.86	266.6
	S-20	0.686	3.44	188.1	M-10	0.410	2.06	111.8
400.000	S-CEMEN	2.800	14.05	797.3	G-25	0.961	4.83	271.4
	S-20	0.681	3.42	191.5	M-10	0.406	2.04	113.9
405.000	S-CEMEN	2.802	14.01	811.3	G-25	0.958	4.80	276.2
	S-20	0.677	3.39	194.9	M-10	0.403	2.02	115.9
410.000	S-CEMEN	2.781	13.96	825.3	G-25	0.951	4.77	281.0
	S-20	0.671	3.37	198.2	M-10	0.400	2.01	117.9
411.665	S-CEMEN	2.751	4.61	829.9	G-25	0.944	1.58	282.6
	S-20	0.668	1.12	199.4	M-10	0.399	0.66	118.6
415.000	S-CEMEN	2.764	9.20	839.1	G-25	0.948	3.16	285.7
	S-20	0.671	2.23	201.6	M-10	0.401	1.33	119.9
420.000	S-CEMEN	2.782	13.87	853.0	G-25	0.955	4.76	290.5
	S-20	0.676	3.37	205.0	M-10	0.404	2.01	121.9
425.000	S-CEMEN	2.801	13.96	866.9	G-25	0.961	4.79	295.3
	S-20	0.681	3.39	208.4	M-10	0.406	2.02	123.9
430.000	S-CEMEN	2.819	14.05	881.0	G-25	0.968	4.82	300.1
	S-20	0.686	3.42	211.8	M-10	0.409	2.04	126.0
431.446	S-CEMEN	2.824	4.08	885.0	G-25	0.970	1.40	301.5
	S-20	0.686	0.99	212.8	M-10	0.410	0.59	126.6

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PROYECTO : VARIANTE DE OURENSE
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EJE : 23 : SOLUCION N-525 SITUACION FINAL (TR_B_PC_DESV_E23.vol)

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
435.000	S-CEMEN	2.819	10.03	895.1	G-25	0.968	3.44	305.0
	S-20	0.685	2.44	215.2	M-10	0.409	1.46	128.0
440.000	S-CEMEN	2.811	14.07	909.1	G-25	0.965	4.83	309.8
	S-20	0.683	3.42	218.6	M-10	0.408	2.04	130.1
445.000	S-CEMEN	2.803	14.03	923.2	G-25	0.962	4.82	314.6
	S-20	0.681	3.41	222.0	M-10	0.406	2.04	132.1
446.695	S-CEMEN	2.800	4.75	927.9	G-25	0.961	1.63	316.2
	S-20	0.680	1.15	223.2	M-10	0.406	0.69	132.8
450.000	S-CEMEN	2.790	9.24	937.2	G-25	0.958	3.17	319.4
	S-20	0.678	2.24	225.4	M-10	0.405	1.34	134.1
455.000	S-CEMEN	2.776	13.92	951.1	G-25	0.953	4.78	324.2
	S-20	0.675	3.38	228.8	M-10	0.402	2.02	136.1
460.000	S-CEMEN	2.762	13.85	964.9	G-25	0.948	4.75	328.9
	S-20	0.671	3.36	232.2	M-10	0.400	2.01	138.1
463.736	S-CEMEN	2.751	10.30	975.2	G-25	0.944	3.53	332.5
	S-20	0.668	2.50	234.7	M-10	0.399	1.49	139.6
465.000	S-CEMEN	2.756	3.48	978.7	G-25	0.946	1.19	333.7
	S-20	0.670	0.85	235.5	M-10	0.399	0.50	140.1
470.000	S-CEMEN	2.774	13.82	992.5	G-25	0.952	4.74	338.4
	S-20	0.674	3.36	238.9	M-10	0.402	2.00	142.1
475.000	S-CEMEN	2.792	13.92	1006.4	G-25	0.958	4.78	343.2
	S-20	0.679	3.38	242.3	M-10	0.405	2.02	144.2
477.620	S-CEMEN	2.802	7.33	1013.8	G-25	0.962	2.52	345.7
	S-20	0.681	1.78	244.0	M-10	0.406	1.06	145.2
477.621	S-CEMEN	2.803	0.00	1013.8	G-25	0.962	0.00	345.7
	S-20	0.681	0.00	244.0	M-10	0.406	0.00	145.2
480.000	S-CEMEN	2.810	6.68	1020.5	G-25	0.965	2.29	348.0
	S-20	0.683	1.62	245.7	M-10	0.408	0.97	146.2
485.000	S-CEMEN	2.829	14.10	1034.6	G-25	0.971	4.84	352.8
	S-20	0.688	3.43	249.1	M-10	0.410	2.05	148.2
488.918	S-CEMEN	2.843	11.11	1045.7	G-25	0.977	3.82	356.7
	S-20	0.691	2.70	251.8	M-10	0.413	1.61	149.9
490.000	S-CEMEN	2.842	3.08	1048.7	G-25	0.976	1.06	357.7
	S-20	0.691	0.75	252.5	M-10	0.413	0.45	150.3
495.000	S-CEMEN	2.843	14.21	1063.0	G-25	0.976	4.88	362.6
	S-20	0.691	3.46	256.0	M-10	0.413	2.06	152.4
500.000	S-CEMEN	2.843	14.21	1077.2	G-25	0.976	4.88	367.5
	S-20	0.692	3.46	259.5	M-10	0.412	2.06	154.4

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PROYECTO : VARIANTE DE OURENSE
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EJE : 23 : SOLUCION N-525 SITUACION FINAL (TR_B_PC_DESV_E23.vol)

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
500.953	S-CEMEN	2.843	2.71	1079.9	G-25	0.976	0.93	368.4
	S-20	0.692	0.66	260.1	M-10	0.412	0.39	154.8
500.954	S-CEMEN	2.844	0.00	1079.9	G-25	0.976	0.00	368.4
	S-20	0.692	0.00	260.1	M-10	0.412	0.00	154.8

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* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	1079.9
G-25	368.4
S-20	260.1
M-10	154.8

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 1 / INTERSECCION

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	S-CEMEN	4.662	0.00	0.0	S-20	1.457	0.00	0.0
	S-12	1.033	0.00	0.0				
0.035	S-CEMEN	6.872	0.20	0.2	S-20	2.161	0.06	0.1
	S-12	1.537	0.04	0.0				
0.038	S-CEMEN	6.851	0.02	0.2	S-20	2.154	0.01	0.1
	S-12	1.531	0.00	0.0				
0.151	S-CEMEN	6.444	0.75	1.0	S-20	2.025	0.24	0.3
	S-12	1.439	0.17	0.2				
0.155	S-CEMEN	6.434	0.03	1.0	S-20	2.021	0.01	0.3
	S-12	1.436	0.01	0.2				
0.341	S-CEMEN	6.034	1.16	2.2	S-20	1.894	0.36	0.7
	S-12	1.345	0.26	0.5				
0.349	S-CEMEN	6.019	0.05	2.2	S-20	1.890	0.02	0.7
	S-12	1.341	0.01	0.5				
0.561	S-CEMEN	5.695	1.24	3.4	S-20	1.787	0.39	1.1
	S-12	1.268	0.28	0.8				
0.604	S-CEMEN	5.629	0.24	3.7	S-20	1.765	0.08	1.2
	S-12	1.253	0.05	0.8				
0.618	S-CEMEN	5.610	0.08	3.8	S-20	1.760	0.02	1.2
	S-12	1.248	0.02	0.8	Rellenos	0.001	0.00	0.0
0.938	S-CEMEN	5.238	1.74	5.5	S-20	1.641	0.54	1.7
	S-12	1.164	0.39	1.2				
0.961	S-CEMEN	5.213	0.12	5.6	S-20	1.633	0.04	1.8
	S-12	1.159	0.03	1.3				
1.341	S-CEMEN	4.860	1.91	7.5	S-20	1.520	0.60	2.4
	S-12	1.078	0.42	1.7				
1.375	S-CEMEN	4.830	0.16	7.7	S-20	1.511	0.05	2.4
	S-12	1.072	0.04	1.7				
1.811	S-CEMEN	4.496	2.03	9.7	S-20	1.404	0.64	3.1
	S-12	0.996	0.45	2.2				
1.859	S-CEMEN	4.462	0.21	10.0	S-20	1.394	0.07	3.1
	S-12	0.988	0.05	2.2				
1.965	S-CEMEN	4.394	0.47	10.4	S-20	1.372	0.15	3.3
	S-12	0.973	0.10	2.3				
2.345	S-CEMEN	4.150	1.62	12.0	S-20	1.294	0.51	3.8
	S-12	0.917	0.36	2.7				
2.408	S-CEMEN	4.113	0.26	12.3	S-20	1.283	0.08	3.9
	S-12	0.908	0.06	2.7				

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 1 / INTERSECCION

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
2.939	S-CEMEN	3.824	2.11	14.4	S-20	1.191	0.66	4.5
	S-12	0.842	0.46	3.2				
3.020	S-CEMEN	3.784	0.31	14.7	S-20	1.178	0.10	4.6
	S-12	0.833	0.07	3.3				
3.591	S-CEMEN	3.519	2.09	16.8	S-20	1.094	0.65	5.3
	S-12	0.774	0.46	3.7				
3.690	S-CEMEN	3.477	0.35	17.2	S-20	1.081	0.11	5.4
	S-12	0.764	0.08	3.8				
4.294	S-CEMEN	3.239	2.03	19.2	S-20	1.005	0.63	6.0
	S-12	0.710	0.45	4.2				
4.414	S-CEMEN	3.195	0.39	19.6	S-20	0.991	0.12	6.1
	S-12	0.700	0.08	4.3				
5.000	S-CEMEN	2.999	1.81	21.4	S-20	0.929	0.56	6.7
	S-12	0.655	0.40	4.7				
5.046	S-CEMEN	2.984	0.14	21.5	S-20	0.924	0.04	6.7
	S-12	0.652	0.03	4.8				
5.187	S-CEMEN	2.940	0.42	21.9	S-20	0.910	0.13	6.8
	S-12	0.642	0.09	4.9				
5.842	S-CEMEN	2.779	1.87	23.8	S-20	0.854	0.58	7.4
	S-12	0.600	0.41	5.3				
6.004	S-CEMEN	2.737	0.45	24.3	S-20	0.840	0.14	7.6
	S-12	0.591	0.10	5.4				
6.676	S-CEMEN	2.578	1.79	26.0	S-20	0.790	0.55	8.1
	S-12	0.555	0.39	5.7				
6.860	S-CEMEN	2.511	0.47	26.5	S-20	0.774	0.14	8.3
	S-12	0.545	0.10	5.8				
7.543	S-CEMEN	2.380	1.67	28.2	S-20	0.733	0.51	8.8
	S-12	0.516	0.36	6.2				
7.750	S-CEMEN	2.344	0.49	28.7	S-20	0.721	0.15	8.9
	S-12	0.508	0.11	6.3				
8.438	S-CEMEN	2.240	1.58	30.2	S-20	0.688	0.48	9.4
	S-12	0.484	0.34	6.6				
8.667	S-CEMEN	2.210	0.51	30.8	S-20	0.678	0.16	9.6
	S-12	0.477	0.11	6.8				
9.356	S-CEMEN	2.132	1.50	32.3	S-20	0.654	0.46	10.0
	S-12	0.460	0.32	7.1				
9.606	S-CEMEN	2.108	0.53	32.8	S-20	0.646	0.16	10.2
	S-12	0.454	0.11	7.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 1 / INTERSECCION

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
10.000	S-CEMEN	2.077	0.82	33.6	S-20	0.636	0.25	10.4
	S-12	0.447	0.18	7.4				
10.208	S-CEMEN	2.062	0.43	34.0	S-20	0.631	0.13	10.6
	S-12	0.444	0.09	7.5				
10.776	S-CEMEN	2.034	1.16	35.2	S-20	0.623	0.36	10.9
	S-12	0.437	0.25	7.7				
11.014	S-CEMEN	2.024	0.48	35.7	S-20	0.619	0.15	11.1
	S-12	0.435	0.10	7.8				
11.705	S-CEMEN	2.004	1.39	37.1	S-20	0.613	0.43	11.5
	S-12	0.431	0.30	8.1				
11.975	S-CEMEN	1.996	0.54	37.6	S-20	0.611	0.17	11.7
	S-12	0.429	0.12	8.2				
13.168	S-CEMEN	1.967	2.36	40.0	S-20	0.601	0.72	12.4
	S-12	0.422	0.51	8.7				
14.355	S-CEMEN	1.941	2.32	42.3	S-20	0.593	0.71	13.1
	S-12	0.416	0.50	9.2				
15.000	S-CEMEN	1.930	1.25	43.5	S-20	0.589	0.38	13.5
	S-12	0.414	0.27	9.5				
15.537	S-CEMEN	1.920	1.03	44.6	S-20	0.586	0.32	13.8
	S-12	0.412	0.22	9.7				
16.715	S-CEMEN	1.904	2.25	46.8	S-20	0.581	0.69	14.5
	S-12	0.408	0.48	10.2				
16.777	S-CEMEN	1.904	0.12	47.0	S-20	0.581	0.04	14.5
	S-12	0.408	0.03	10.2				
17.890	S-CEMEN	1.893	2.11	49.1	S-20	0.577	0.64	15.2
	S-12	0.405	0.45	10.7				
19.063	S-CEMEN	1.886	2.22	51.3	S-20	0.575	0.68	15.8
	S-12	0.404	0.47	11.2				
20.000	S-CEMEN	1.884	1.77	53.0	S-20	0.575	0.54	16.4
	S-12	0.403	0.38	11.5				
20.236	S-CEMEN	1.883	0.44	53.5	S-20	0.574	0.14	16.5
	S-12	0.403	0.10	11.6				
25.000	S-CEMEN	1.892	8.99	62.5	S-20	0.576	2.74	19.2
	S-12	0.403	1.92	13.6				
30.000	S-CEMEN	1.913	9.51	72.0	S-20	0.578	2.88	22.1
	S-12	0.404	2.02	15.6				
31.511	S-CEMEN	1.883	2.87	74.9	S-20	0.574	0.87	23.0
	S-12	0.403	0.61	16.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 1 / INTERSECCION

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
35.000	S-CEMEN	1.913	6.62	81.5	S-20	0.578	2.01	25.0
	S-12	0.404	1.41	17.6				
38.600	S-CEMEN	1.913	6.89	88.4	S-20	0.578	2.08	27.1
	S-12	0.404	1.45	19.0				
40.000	S-CEMEN	1.913	2.68	91.1	S-20	0.578	0.81	27.9
	S-12	0.404	0.57	19.6				
45.000	S-CEMEN	1.889	9.51	100.6	S-20	0.575	2.88	30.8
	S-12	0.403	2.02	21.6				
46.245	S-CEMEN	1.889	2.35	102.9	S-20	0.575	0.72	31.5
	S-12	0.403	0.50	22.1				
50.000	S-CEMEN	1.889	7.09	110.0	S-20	0.575	2.16	33.7
	S-12	0.403	1.51	23.6				
55.000	S-CEMEN	1.890	9.45	119.4	S-20	0.575	2.88	36.5
	S-12	0.403	2.02	25.7				
60.000	S-CEMEN	1.863	9.38	128.8	S-20	0.572	2.87	39.4
	S-12	0.403	2.01	27.7				
63.868	S-CEMEN	1.863	7.21	136.0	S-20	0.572	2.21	41.6
	S-12	0.402	1.56	29.2				

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PROYECTO : VARIANTE DE OURENSE
EJE: 24: SOLUCION N-525 DESVIO 1 / INTERSECCION

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
S-CEMEN	136.0
S-20	41.6
S-12	29.2

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

RAMAL

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
0.000	ZA	1.666	0.00	0.0				
5.000	ZA	1.675	8.35	8.4				
10.000	ZA	1.675	8.37	16.7				
15.000	ZA	1.672	8.37	25.1				
17.054	ZA	1.671	3.43	28.5				
20.000	ZA	1.670	4.92	33.4				
25.000	ZA	1.669	8.35	41.8				
30.000	ZA	1.667	8.34	50.1				
35.000	ZA	1.666	8.33	58.5				
40.000	ZA	1.664	8.32	66.8				
45.000	ZA	1.663	8.32	75.1				
50.000	ZA	1.663	8.32	83.4				
55.000	ZA	1.662	8.31	91.7				
60.000	ZA	1.662	8.31	100.0				
65.000	ZA	1.662	8.31	108.4				
70.000	ZA	1.662	8.31	116.7				
75.000	ZA	1.662	8.31	125.0				
80.000	ZA	1.662	8.31	133.3				
85.000	ZA	1.662	8.31	141.6				
90.000	ZA	1.648	8.27	149.9				
95.000	ZA	1.648	8.24	158.1				
100.000	ZA	1.648	8.24	166.4				
105.000	ZA	1.648	8.24	174.6				
110.000	ZA	1.648	8.24	182.8				
115.000	ZA	1.648	8.24	191.1				
119.532	ZA	1.648	7.47	198.5				
120.000	ZA	1.648	0.77	199.3				
125.000	ZA	1.635	8.21	207.5				
130.000	ZA	1.635	8.18	215.7				
135.000	ZA	1.635	8.18	223.9				
139.681	ZA	1.635	7.65	231.5				
140.000	ZA	1.635	0.52	232.0				
495.000	ZA	1.190	501.42	733.5				
496.348	ZA	1.117	1.55	735.0				
500.000	ZA	1.092	4.03	739.0				
500.392	ZA	1.094	0.43	739.5				

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PROYECTO : VARIANTE DE OURENSE
EJE: 25: DESVIO PROVISIONAL EN P.K. 3+300

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN
ZA	739.5

1.1.2.6. CONEXIÓN PROVISIONAL

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1
PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

* * * VOLUMENES TOTALES CONJUNTOS * * *
* * * DE LAS CAPAS DE FIRMES * * *

SC Calzada	2590.8
AC32 bas G Cal	971.7
AC22 bin S Cal	678.8
BBTM 11B Cal	360.0
S-ADECU. Berma	738.5
IMPEABI. Berma	322.5
C51	0.2

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1
PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

Glorieta_Sec132

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1000.000	SC Calzada	2.397	0.00	0.0	AC32 bas G Cal	1.140	0.00	0.0
	AC22 bin S Cal	0.789	0.00	0.0	BBTM 11B Cal	0.335	0.00	0.0
	S-ADECU. Berma	0.555	0.00	0.0	IMPEABI. Berma	0.335	0.00	0.0
1020.000	SC Calzada	2.613	48.83	48.8	AC32 bas G Cal	1.201	23.04	23.0
	AC22 bin S Cal	0.823	15.89	15.9	BBTM 11B Cal	0.347	6.72	6.7
	S-ADECU. Berma	0.211	5.01	5.0	IMPEABI. Berma	0.208	4.53	4.5
1040.000	SC Calzada	2.385	55.07	103.9	AC32 bas G Cal	1.140	26.30	49.3
	AC22 bin S Cal	0.789	18.21	34.1	BBTM 11B Cal	0.335	7.74	14.5
	S-ADECU. Berma	0.053	2.76	7.8	IMPEABI. Berma	0.114	2.77	7.3
1060.000	SC Calzada	2.484	48.97	152.9	AC32 bas G Cal	1.181	22.94	72.3
	AC22 bin S Cal	0.818	15.77	49.9	BBTM 11B Cal	0.348	6.67	21.1
	S-ADECU. Berma	0.000	3.12	10.9	IMPEABI. Berma	0.000	3.27	10.6
1080.000	SC Calzada	2.128	58.35	211.2	AC32 bas G Cal	1.053	28.11	100.4
	AC22 bin S Cal	0.737	19.49	69.4	BBTM 11B Cal	0.316	8.30	29.4
	S-ADECU. Berma	0.000	7.18	18.1	IMPEABI. Berma	0.000	4.75	15.3
1100.000	SC Calzada	2.537	46.17	257.4	AC32 bas G Cal	1.266	22.44	122.8
	AC22 bin S Cal	0.886	15.59	85.0	BBTM 11B Cal	0.380	6.64	36.1
	S-ADECU. Berma	0.000	3.90	22.0	IMPEABI. Berma	0.000	3.43	18.8
1120.000	SC Calzada	2.387	56.81	314.2	AC32 bas G Cal	1.139	27.91	150.8
	AC22 bin S Cal	0.788	19.45	104.4	BBTM 11B Cal	0.335	8.30	44.4
	S-ADECU. Berma	0.056	2.26	24.2	IMPEABI. Berma	0.143	2.90	21.7
1140.000	SC Calzada	3.145	48.23	362.4	AC32 bas G Cal	1.573	23.39	174.1
	AC22 bin S Cal	1.101	16.25	120.6	BBTM 11B Cal	0.471	6.92	51.3
	S-ADECU. Berma	0.000	5.21	29.4	IMPEABI. Berma	0.000	4.75	26.4
1160.000	SC Calzada	2.393	55.00	417.4	AC32 bas G Cal	1.140	26.42	200.6
	AC22 bin S Cal	0.788	18.28	138.9	BBTM 11B Cal	0.335	7.77	59.1
	S-ADECU. Berma	0.691	12.69	42.1	IMPEABI. Berma	0.536	10.07	36.5
1180.000	SC Calzada	2.386	47.81	465.2	AC32 bas G Cal	1.139	22.79	223.4
	AC22 bin S Cal	0.789	15.77	154.7	BBTM 11B Cal	0.335	6.70	65.8
	S-ADECU. Berma	0.234	13.38	55.5	IMPEABI. Berma	0.297	10.32	46.8
1200.000	SC Calzada	2.482	48.86	514.1	AC32 bas G Cal	1.163	23.09	246.4
	AC22 bin S Cal	0.795	15.85	170.6	BBTM 11B Cal	0.336	6.71	72.5
	S-ADECU. Berma	0.695	4.39	59.9	IMPEABI. Berma	0.487	4.84	51.6
1220.000	SC Calzada	2.716	49.53	563.6	AC32 bas G Cal	1.308	23.48	269.9
	AC22 bin S Cal	0.906	16.16	186.7	BBTM 11B Cal	0.385	6.84	79.3
	S-ADECU. Berma	0.709	13.93	73.8	IMPEABI. Berma	0.464	9.41	61.1

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

Glorieta_Sec132

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
1240.000	SC Calzada	2.383	53.60	617.2	AC32 bas G Cal	1.139	25.61	295.5
	AC22 bin S Cal	0.789	17.70	204.4	BBTM 11B Cal	0.335	7.51	86.8
	S-ADECU. Berma	0.695	6.22	80.1	IMPEABI. Berma	0.413	4.47	65.5
1260.000	SC Calzada	2.665	50.94	668.2	AC32 bas G Cal	1.280	24.63	320.2
	AC22 bin S Cal	0.887	17.12	221.5	BBTM 11B Cal	0.377	7.29	94.1
	S-ADECU. Berma	0.708	6.57	86.6	IMPEABI. Berma	0.406	4.24	69.8
1280.000	SC Calzada	2.394	48.47	716.6	AC32 bas G Cal	1.140	23.13	343.3
	AC22 bin S Cal	0.788	16.00	237.5	BBTM 11B Cal	0.335	6.80	100.9
	S-ADECU. Berma	0.702	14.01	100.6	IMPEABI. Berma	0.436	8.36	78.1
1295.310	SC Calzada	2.397	36.68	753.3	AC32 bas G Cal	1.140	17.45	360.7
	AC22 bin S Cal	0.789	12.07	249.6	BBTM 11B Cal	0.335	5.13	106.0
	S-ADECU. Berma	0.556	10.53	111.2	IMPEABI. Berma	0.335	6.60	84.7

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P1 : Enlace de A Casilla. Eje-1. (Glorieta) (OC7_REV2-11.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		4238.8
SC Calzada	753.3	3648.4
AC32 bas G Cal	360.7	3591.1
AC22 bin S Cal	249.6	3554.4
BBTM 11B Cal	106.0	3531.5
S-ADECU. Berma	111.2	518.9
IMPEABI. Berma	84.7	261.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P4 : Enlace de A Casilla. Eje-4 (OC7-14.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
4093.038	SC Calzada	3.679	0.00	0.0	AC32 bas G Cal	1.220	0.00	0.0
	AC22 bin S Cal	0.861	0.00	0.0	BBTM 11B Cal	0.510	0.00	0.0
	S-ADECU. Berma	1.731	0.00	0.0	IMPEABI. Berma	0.534	0.00	0.0
	C51	0.001	0.00	0.0				
4100.000	SC Calzada	3.679	25.61	25.6	AC32 bas G Cal	1.220	8.49	8.5
	AC22 bin S Cal	0.861	5.99	6.0	BBTM 11B Cal	0.511	3.56	3.6
	S-ADECU. Berma	1.731	12.05	12.1	IMPEABI. Berma	0.533	3.72	3.7
	C51	0.001	0.01	0.0				
4120.000	SC Calzada	3.680	73.59	99.2	AC32 bas G Cal	1.220	24.40	32.9
	AC22 bin S Cal	0.861	17.21	23.2	BBTM 11B Cal	0.511	10.22	13.8
	S-ADECU. Berma	1.731	34.62	46.7	IMPEABI. Berma	0.533	10.67	14.4
	C51	0.001	0.02	0.0				
4140.000	SC Calzada	3.796	74.75	174.0	AC32 bas G Cal	1.261	24.82	57.7
	AC22 bin S Cal	0.890	17.50	40.7	BBTM 11B Cal	0.528	10.39	24.2
	S-ADECU. Berma	1.731	34.62	81.3	IMPEABI. Berma	0.534	10.67	25.1
	C51	0.001	0.02	0.1				
4160.000	SC Calzada	3.912	77.09	251.0	AC32 bas G Cal	1.302	25.63	83.3
	AC22 bin S Cal	0.918	18.08	58.8	BBTM 11B Cal	0.546	10.74	34.9
	S-ADECU. Berma	1.045	32.90	114.2	IMPEABI. Berma	0.531	10.66	35.7
	C51	0.001	0.02	0.1				
4180.000	SC Calzada	4.029	79.42	330.5	AC32 bas G Cal	1.343	26.45	109.8
	AC22 bin S Cal	0.948	18.66	77.4	BBTM 11B Cal	0.564	11.09	46.0
	S-ADECU. Berma	1.045	20.90	135.1	IMPEABI. Berma	0.531	10.62	46.3
	C51	0.001	0.02	0.1				
4200.000	SC Calzada	4.146	81.75	412.2	AC32 bas G Cal	1.383	27.27	137.1
	AC22 bin S Cal	0.977	19.24	96.7	BBTM 11B Cal	0.580	11.44	57.4
	S-ADECU. Berma	0.810	19.00	154.1	IMPEABI. Berma	0.335	8.56	54.9
4220.000	SC Calzada	4.270	84.14	496.3	AC32 bas G Cal	1.424	28.08	165.1
	AC22 bin S Cal	1.007	19.83	116.5	BBTM 11B Cal	0.598	11.79	69.2
	S-ADECU. Berma	0.662	11.07	165.2	IMPEABI. Berma	0.255	5.30	60.2
4240.000	SC Calzada	4.396	86.66	583.0	AC32 bas G Cal	1.465	28.90	194.0
	AC22 bin S Cal	1.036	20.42	136.9	BBTM 11B Cal	0.616	12.14	81.4
	S-ADECU. Berma	0.820	14.64	179.8	IMPEABI. Berma	0.387	6.35	66.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P4 : Enlace de A Casilla. Eje-4 (OC7-14.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		3570.2
SC Calzada	583.0	2816.1
AC32 bas G Cal	194.0	2766.1
AC22 bin S Cal	136.9	2736.6
BBTM 11B Cal	81.4	2713.1
S-ADECU. Berma	179.8	544.3
IMPEABI. Berma	66.6	331.2
C51	0.1	

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P5 : Enlace de A Casilla. Eje-5 (OC7-15.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
5101.075	SC Calzada	2.905	0.00	0.0	AC32 bas G Cal	0.975	0.00	0.0
	AC22 bin S Cal	0.685	0.00	0.0	BBTM 11B Cal	0.406	0.00	0.0
	S-ADECU. Berma	0.435	0.00	0.0	IMPEABI. Berma	0.273	0.00	0.0
5120.000	SC Calzada	2.881	54.63	54.6	AC32 bas G Cal	0.975	18.46	18.5
	AC22 bin S Cal	0.686	12.97	13.0	BBTM 11B Cal	0.406	7.68	7.7
	S-ADECU. Berma	0.400	7.74	7.7	IMPEABI. Berma	0.290	5.40	5.4
5140.000	SC Calzada	2.881	57.62	112.2	AC32 bas G Cal	0.975	19.50	38.0
	AC22 bin S Cal	0.685	13.71	26.7	BBTM 11B Cal	0.406	8.12	15.8
	S-ADECU. Berma	0.400	8.00	15.7	IMPEABI. Berma	0.289	5.79	11.2
5160.000	SC Calzada	2.881	57.62	169.9	AC32 bas G Cal	0.975	19.50	57.5
	AC22 bin S Cal	0.686	13.71	40.4	BBTM 11B Cal	0.406	8.12	23.9
	S-ADECU. Berma	0.400	8.00	23.7	IMPEABI. Berma	0.289	5.79	17.0
5180.000	SC Calzada	2.881	57.62	227.5	AC32 bas G Cal	0.975	19.50	77.0
	AC22 bin S Cal	0.686	13.71	54.1	BBTM 11B Cal	0.406	8.12	32.0
	S-ADECU. Berma	0.381	7.87	31.6	IMPEABI. Berma	0.289	5.79	22.8
5200.000	SC Calzada	2.881	57.62	285.1	AC32 bas G Cal	0.975	19.50	96.5
	AC22 bin S Cal	0.686	13.71	67.8	BBTM 11B Cal	0.406	8.12	40.2
	S-ADECU. Berma	0.369	7.44	39.1	IMPEABI. Berma	0.289	5.79	28.6

PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P5 : Enlace de A Casilla. Eje-5 (OC7-15.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		1645.4
SC Calzada	285.1	1405.0
AC32 bas G Cal	96.5	1371.4
AC22 bin S Cal	67.8	1351.6
BBTM 11B Cal	40.2	1335.7
S-ADECU. Berma	39.1	187.4
IMPEABI. Berma	28.6	217.8

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P6 : Enlace de A Casilla. Eje-6 (OC7-16.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
6064.616	SC Calzada	2.377	0.00	0.0	AC32 bas G Cal	0.768	0.00	0.0
	AC22 bin S Cal	0.538	0.00	0.0	BBTM 11B Cal	0.317	0.00	0.0
	S-ADECU. Berma	1.605	0.00	0.0	IMPEABI. Berma	0.515	0.00	0.0
6080.000	SC Calzada	2.344	36.31	36.3	AC32 bas G Cal	0.761	11.76	11.8
	AC22 bin S Cal	0.532	8.23	8.2	BBTM 11B Cal	0.314	4.86	4.9
	S-ADECU. Berma	1.270	21.58	21.6	IMPEABI. Berma	0.492	7.74	7.7
6100.000	SC Calzada	2.301	46.45	82.8	AC32 bas G Cal	0.751	15.12	26.9
	AC22 bin S Cal	0.526	10.58	18.8	BBTM 11B Cal	0.310	6.24	11.1
	S-ADECU. Berma	1.598	27.94	49.5	IMPEABI. Berma	0.431	9.22	17.0
6120.000	SC Calzada	2.263	45.61	128.4	AC32 bas G Cal	0.742	14.93	41.8
	AC22 bin S Cal	0.519	10.45	29.3	BBTM 11B Cal	0.306	6.16	17.3
	S-ADECU. Berma	1.559	31.34	80.9	IMPEABI. Berma	0.387	8.15	25.1
6140.000	SC Calzada	2.237	45.00	173.4	AC32 bas G Cal	0.733	14.75	56.6
	AC22 bin S Cal	0.512	10.31	39.6	BBTM 11B Cal	0.302	6.08	23.3
	S-ADECU. Berma	0.997	26.91	107.8	IMPEABI. Berma	0.322	7.20	32.3
6145.283	SC Calzada	2.229	11.80	185.2	AC32 bas G Cal	0.730	3.86	60.4
	AC22 bin S Cal	0.511	2.70	42.3	BBTM 11B Cal	0.301	1.59	24.9
	S-ADECU. Berma	0.989	5.25	113.0	IMPEABI. Berma	0.312	1.67	34.0

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P6 : Enlace de A Casilla. Eje-6 (OC7-16.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		1386.6
SC Calzada	185.2	885.3
AC32 bas G Cal	60.4	857.9
AC22 bin S Cal	42.3	841.7
BBTM 11B Cal	24.9	828.8
S-ADECU. Berma	113.0	307.4
IMPEABI. Berma	34.0	177.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P7 : Enlace de A Casilla. Eje-7 (OC7-17.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
7021.376	SC Calzada	1.909	0.00	0.0	AC32 bas G Cal	0.643	0.00	0.0
	AC22 bin S Cal	0.454	0.00	0.0	BBTM 11B Cal	0.269	0.00	0.0
	S-ADECU. Berma	0.256	0.00	0.0	IMPEABI. Berma	0.151	0.00	0.0
7040.000	SC Calzada	1.455	33.34	33.3	AC32 bas G Cal	0.482	11.12	11.1
	AC22 bin S Cal	0.338	7.81	7.8	BBTM 11B Cal	0.200	4.62	4.6
	S-ADECU. Berma	0.510	10.77	10.8	IMPEABI. Berma	0.108	2.68	2.7
7060.000	SC Calzada	2.039	24.59	57.9	AC32 bas G Cal	0.692	8.12	19.2
	AC22 bin S Cal	0.489	5.70	13.5	BBTM 11B Cal	0.288	3.36	8.0
	S-ADECU. Berma	0.673	3.47	14.2	IMPEABI. Berma	0.447	1.40	4.1
7080.000	SC Calzada	1.815	37.92	95.8	AC32 bas G Cal	0.619	12.90	32.1
	AC22 bin S Cal	0.436	9.10	22.6	BBTM 11B Cal	0.259	5.40	13.4
	S-ADECU. Berma	0.673	13.46	27.7	IMPEABI. Berma	0.444	8.89	13.0
	C51	0.001	0.02	0.0				
7100.000	SC Calzada	1.792	36.00	131.9	AC32 bas G Cal	0.610	12.27	44.4
	AC22 bin S Cal	0.430	8.65	31.3	BBTM 11B Cal	0.256	5.13	18.5
	S-ADECU. Berma	0.673	13.46	41.2	IMPEABI. Berma	0.444	8.87	21.8
	C51	0.001	0.02	0.0				
7113.816	SC Calzada	1.791	24.75	156.6	AC32 bas G Cal	0.610	8.43	52.8
	AC22 bin S Cal	0.431	5.94	37.2	BBTM 11B Cal	0.255	3.53	22.0
	S-ADECU. Berma	0.673	9.30	50.5	IMPEABI. Berma	0.444	6.14	28.0
	C51	0.001	0.02	0.1				

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P7 : Enlace de A Casilla. Eje-7 (OC7-17.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		1013.3
SC Calzada	156.6	768.3
AC32 bas G Cal	52.8	752.2
AC22 bin S Cal	37.2	742.6
BBTM 11B Cal	22.0	734.6
S-ADECU. Berma	50.5	214.7
IMPEABI. Berma	28.0	102.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P8 : Enlace de A Casilla. Eje-8 (OC7-18.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
8000.000	SC Calzada	1.888	0.00	0.0	AC32 bas G Cal	0.610	0.00	0.0
	AC22 bin S Cal	0.430	0.00	0.0	BBTM 11B Cal	0.256	0.00	0.0
	S-ADECU. Berma	1.058	0.00	0.0	IMPEABI. Berma	0.090	0.00	0.0
8020.000	SC Calzada	1.862	37.56	37.6	AC32 bas G Cal	0.611	12.21	12.2
	AC22 bin S Cal	0.431	8.61	8.6	BBTM 11B Cal	0.256	5.11	5.1
	S-ADECU. Berma	0.966	20.51	20.5	IMPEABI. Berma	0.111	1.94	1.9
8040.000	SC Calzada	1.862	37.13	74.7	AC32 bas G Cal	0.627	12.35	24.6
	AC22 bin S Cal	0.442	8.70	17.3	BBTM 11B Cal	0.262	5.17	10.3
	S-ADECU. Berma	0.792	17.74	38.3	IMPEABI. Berma	0.182	2.79	4.7
8040.000	SC Calzada	1.862	0.00	74.7	AC32 bas G Cal	0.627	0.00	24.6
	AC22 bin S Cal	0.442	0.00	17.3	BBTM 11B Cal	0.262	0.00	10.3
	S-ADECU. Berma	0.792	0.00	38.3	IMPEABI. Berma	0.182	0.00	4.7
8060.000	SC Calzada	2.047	38.38	113.1	AC32 bas G Cal	0.672	12.95	37.5
	AC22 bin S Cal	0.469	9.10	26.4	BBTM 11B Cal	0.276	5.39	15.7
	S-ADECU. Berma	0.696	13.80	52.0	IMPEABI. Berma	0.437	5.67	10.4
8080.000	SC Calzada	2.244	42.55	155.6	AC32 bas G Cal	0.743	14.01	51.5
	AC22 bin S Cal	0.520	9.79	36.2	BBTM 11B Cal	0.306	5.76	21.4
	S-ADECU. Berma	1.521	20.76	72.8	IMPEABI. Berma	0.376	8.97	19.4
8092.197	SC Calzada	2.387	28.24	183.9	AC32 bas G Cal	0.782	9.35	60.9
	AC22 bin S Cal	0.548	6.55	42.8	BBTM 11B Cal	0.323	3.86	25.3
	S-ADECU. Berma	1.584	15.61	88.4	IMPEABI. Berma	0.421	3.56	22.9

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P8 : Enlace de A Casilla. Eje-8 (OC7-18.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		1265.2
SC Calzada	183.9	886.9
AC32 bas G Cal	60.9	865.4
AC22 bin S Cal	42.8	852.3
BBTM 11B Cal	25.3	841.7
S-ADECU. Berma	88.4	210.9
IMPEABI. Berma	22.9	134.7

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P10 : Enlace de A Casilla. Eje-10 (OC7_REV2-20.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES * * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
10025.392	SC Calzada	1.889	0.00	0.0	AC32 bas G Cal	0.618	0.00	0.0
	AC22 bin S Cal	0.431	0.00	0.0	BBTM 11B Cal	0.253	0.00	0.0
	S-ADECU. Berma	0.464	0.00	0.0	IMPEABI. Berma	0.259	0.00	0.0
10040.000	SC Calzada	1.736	26.42	26.4	AC32 bas G Cal	0.562	8.60	8.6
	AC22 bin S Cal	0.391	5.98	6.0	BBTM 11B Cal	0.229	3.51	3.5
	S-ADECU. Berma	0.481	6.43	6.4	IMPEABI. Berma	0.259	3.77	3.8
10060.000	SC Calzada	1.554	33.00	59.4	AC32 bas G Cal	0.497	10.62	19.2
	AC22 bin S Cal	0.344	7.36	13.3	BBTM 11B Cal	0.201	4.31	7.8
	S-ADECU. Berma	0.382	9.48	15.9	IMPEABI. Berma	0.251	5.10	8.9
10080.000	SC Calzada	1.244	28.15	87.6	AC32 bas G Cal	0.418	9.23	28.4
	AC22 bin S Cal	0.293	6.41	19.8	BBTM 11B Cal	0.173	3.76	11.6
	S-ADECU. Berma	0.210	4.83	20.7	IMPEABI. Berma	0.162	3.81	12.7
10100.000	SC Calzada	1.120	23.41	111.0	AC32 bas G Cal	0.375	7.85	36.3
	AC22 bin S Cal	0.262	5.50	25.3	BBTM 11B Cal	0.155	3.24	14.8
	S-ADECU. Berma	0.204	4.15	24.9	IMPEABI. Berma	0.152	3.17	15.9
10120.000	SC Calzada	1.092	22.02	133.0	AC32 bas G Cal	0.365	7.38	43.7
	AC22 bin S Cal	0.256	5.16	30.4	BBTM 11B Cal	0.151	3.04	17.9
	S-ADECU. Berma	0.200	4.02	28.9	IMPEABI. Berma	0.145	2.93	18.8
10129.277	SC Calzada	1.090	10.12	143.1	AC32 bas G Cal	0.365	3.39	47.1
	AC22 bin S Cal	0.255	2.37	32.8	BBTM 11B Cal	0.150	1.40	19.3
	S-ADECU. Berma	0.200	1.86	30.8	IMPEABI. Berma	0.145	1.34	20.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P10 : Enlace de A Casilla. Eje-10 (OC7_REV2-20.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		871.4
SC Calzada	143.1	692.6
AC32 bas G Cal	47.1	667.5
AC22 bin S Cal	32.8	652.4
BBTM 11B Cal	19.3	640.3
S-ADECU. Berma	30.8	132.8
IMPEABI. Berma	20.1	159.4

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P11 : Enlace de A Casilla. Eje-11 (OC7-21_m.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
11000.000	SC Calzada	1.115	0.00	0.0	AC32 bas G Cal	0.365	0.00	0.0
	AC22 bin S Cal	0.255	0.00	0.0	BBTM 11B Cal	0.151	0.00	0.0
	S-ADECU. Berma	0.235	0.00	0.0	IMPEABI. Berma	0.128	0.00	0.0
11020.000	SC Calzada	0.704	15.06	15.1	AC32 bas G Cal	0.246	5.21	5.2
	AC22 bin S Cal	0.176	3.71	3.7	BBTM 11B Cal	0.105	2.22	2.2
	S-ADECU. Berma	0.000	0.59	0.6	IMPEABI. Berma	0.000	0.32	0.3
11040.000	SC Calzada	0.739	14.31	29.4	AC32 bas G Cal	0.259	5.01	10.2
	AC22 bin S Cal	0.185	3.58	7.3	BBTM 11B Cal	0.111	2.14	4.4
11060.000	SC Calzada	0.998	16.78	46.2	AC32 bas G Cal	0.347	5.87	16.1
	AC22 bin S Cal	0.244	4.19	11.5	BBTM 11B Cal	0.143	2.51	6.9
	IMPEABI. Berma	0.008	0.01	0.3				
11080.000	SC Calzada	1.676	26.30	72.5	AC32 bas G Cal	0.562	8.77	24.8
	AC22 bin S Cal	0.395	6.15	17.6	BBTM 11B Cal	0.232	3.63	10.5
	S-ADECU. Berma	0.247	3.01	3.6	IMPEABI. Berma	0.117	1.73	2.1
11098.928	SC Calzada	2.141	36.78	109.2	AC32 bas G Cal	0.700	12.07	36.9
	AC22 bin S Cal	0.489	8.43	26.1	BBTM 11B Cal	0.288	4.96	15.5
	S-ADECU. Berma	0.729	7.37	11.0	IMPEABI. Berma	0.273	4.00	6.1

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P11 : Enlace de A Casilla. Eje-11 (OC7-21_m.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		592.5
SC Calzada	109.2	535.2
AC32 bas G Cal	36.9	525.6
AC22 bin S Cal	26.1	519.6
BBTM 11B Cal	15.5	514.6
S-ADECU. Berma	11.0	42.0
IMPEABI. Berma	6.1	55.7

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P13 : Enlace de A Casilla. Eje-13 (OC7-23.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
13022.184	SC Calzada	1.858	0.00	0.0	AC32 bas G Cal	0.612	0.00	0.0
	AC22 bin S Cal	0.432	0.00	0.0	BBTM 11B Cal	0.256	0.00	0.0
	S-ADECU. Berma	0.950	0.00	0.0	IMPEABI. Berma	0.116	0.00	0.0
13040.000	SC Calzada	1.825	34.24	34.2	AC32 bas G Cal	0.591	11.11	11.1
	AC22 bin S Cal	0.411	7.75	7.7	BBTM 11B Cal	0.241	4.55	4.6
	S-ADECU. Berma	1.315	21.23	21.2	IMPEABI. Berma	0.324	4.75	4.8
13060.000	SC Calzada	1.410	32.68	66.9	AC32 bas G Cal	0.472	10.60	21.7
	AC22 bin S Cal	0.328	7.35	15.1	BBTM 11B Cal	0.191	4.30	8.9
	S-ADECU. Berma	0.663	20.01	41.2	IMPEABI. Berma	0.266	6.46	11.2
13080.000	SC Calzada	1.152	24.71	91.6	AC32 bas G Cal	0.387	8.30	30.0
	AC22 bin S Cal	0.271	5.82	20.9	BBTM 11B Cal	0.160	3.43	12.3
	S-ADECU. Berma	0.209	5.63	46.9	IMPEABI. Berma	0.162	3.49	14.7
13086.250	SC Calzada	1.375	7.24	98.9	AC32 bas G Cal	0.434	2.42	32.4
	AC22 bin S Cal	0.299	1.70	22.6	BBTM 11B Cal	0.174	1.00	13.3
	S-ADECU. Berma	1.592	1.83	48.7	IMPEABI. Berma	0.515	1.26	16.0

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P13 : Enlace de A Casilla. Eje-13 (OC7-23.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		705.1
SC Calzada	98.9	476.7
AC32 bas G Cal	32.4	459.9
AC22 bin S Cal	22.6	449.7
BBTM 11B Cal	13.3	441.5
S-ADECU. Berma	48.7	137.3
IMPEABI. Berma	16.0	106.2

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P14 : Enlace de A Casilla. Eje-14 (OC7-24.vol)

Ramal_Sec232

* * * MEDICIONES DE LOS PERFILES TRANSVERSALES* * *
* * * CAPAS DE FIRME * * *

PERFIL	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.	MATERIAL	AREA PERFIL	VOL. PARCIAL	VOL. ACUMUL.
14000.000	SC Calzada	1.232	0.00	0.0	AC32 bas G Cal	0.384	0.00	0.0
	AC22 bin S Cal	0.269	0.00	0.0	BBTM 11B Cal	0.159	0.00	0.0
	S-ADECU. Berma	0.932	0.00	0.0	IMPEABI. Berma	0.096	0.00	0.0
14020.000	SC Calzada	1.265	24.73	24.7	AC32 bas G Cal	0.408	7.84	7.8
	AC22 bin S Cal	0.286	5.49	5.5	BBTM 11B Cal	0.169	3.24	3.2
	S-ADECU. Berma	0.909	19.17	19.2	IMPEABI. Berma	0.128	2.21	2.2
14040.000	SC Calzada	1.501	27.74	52.5	AC32 bas G Cal	0.481	8.96	16.8
	AC22 bin S Cal	0.333	6.22	11.7	BBTM 11B Cal	0.194	3.63	6.9
	S-ADECU. Berma	1.008	17.51	36.7	IMPEABI. Berma	0.351	4.22	6.4
14060.000	SC Calzada	1.805	32.58	85.0	AC32 bas G Cal	0.590	10.56	27.4
	AC22 bin S Cal	0.410	7.32	19.0	BBTM 11B Cal	0.241	4.29	11.2
	S-ADECU. Berma	0.910	26.52	63.2	IMPEABI. Berma	0.422	7.72	14.2
14064.203	SC Calzada	1.678	7.46	92.5	AC32 bas G Cal	0.571	2.49	29.9
	AC22 bin S Cal	0.402	1.74	20.8	BBTM 11B Cal	0.238	1.02	12.2
	S-ADECU. Berma	0.659	3.00	66.2	IMPEABI. Berma	0.325	1.50	15.6

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PROYECTO : Autovía A-56, Ourense-Lugo. Tramo: Ourense-Enlace de Coles (OC9.POL)
GRUPO : 2 : Enlace de A Casilla
C.R.S. : ETRS89 (HUSO 31)
EJE : P14 : Enlace de A Casilla. Eje-14 (OC7-24.vol)

* * * RESUMEN DE VOLUMENES TOTALES * * *

MATERIAL	VOLUMEN	AREAS DE RIEGOS
SUBRASANTE		724.1
SC Calzada	92.5	439.6
AC32 bas G Cal	29.9	423.1
AC22 bin S Cal	20.8	413.1
BBTM 11B Cal	12.2	404.8
S-ADECU. Berma	66.2	149.3
IMPEABI. Berma	15.6	103.4

1.1.2.7. RESUMEN

	B	C	D	E	F	G	H	I	J
24	VOLÚMENES DE LAS CAPAS DE FIRME								
25									
26	**NOMBRE**	**Nº EJE**	**ZAHORRA ARTIFICIAL (1)**	**ZAHORRA ARTIFICIAL (2)**	**SUELO-CEMENTO**	**MBC RODADURA**	**MBC INTERMEDIA**	**MBC BASE**	**RELLENOS**
27	**TRONCO**	1	1,980.40	0.00	13,055.10	1,671.60	2,828.10	3,336.30	6,075.50
28	PASOS DE MEDIANA	-	0.00	0.00	120.00	18.00	30.00	42.00	
29	**ENLACE DA CASILLA**								
30	ENLACE DA CASILLA RAMAL A	9	129.50	0.00	519.00	55.20	94.20	93.80	56.10
31	ENLACE DA CASILLA RAMAL B	10	184.50	0.00	1,016.70	99.50	169.50	188.20	79.30
32	**REPOSICIÓN DE CAMINOS**								
33	REPOSICIÓN DE CAMINO EN P.K. 1+830	12	274.70	0.00	0.00	0.00	0.00	0.00	0.00
34	REPOSICIÓN DE CAMINO EN P.K. 2+120	13	371.60	0.00	0.00	0.00	0.00	0.00	0.00
35	REPOSICIÓN DE CAMINO EN P.K. 3+430	14	487.40	0.00	0.00	0.00	0.00	0.00	0.00
36	REPOSICIÓN DEL CAMINO DE SANTIAGO	15	925.50	0.00	0.00	0.00	0.00	0.00	0.00
37	**CAMINOS PARALELOS**								
38	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280	16	776.00	0.00	0.00	0.00	0.00	0.00	0.00
39	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA	17	453.60	0.00	0.00	0.00	0.00	0.00	0.00
40	**DESVÍOS PROVISIONALES**								
41	SOLUCION N-525 DESVIO 4	21	0	0.00	927.90	199.20	283.70	0.00	0.00
42	SOLUCION N-525 DESVIO 3	22	0	0.00	972.10	209.10	297.60	0.00	0.00
43	SOLUCION N-525 SITUACION FINAL	23	0	0.00	1,079.90	154.80	260.10	368.40	0.00
44	SOLUCION N-525 DESVIO 1 / INTERSECCION	24	0	0.00	136.00	29.20	41.60	0.00	0.00
45	DESVIO PROVISIONAL EN P.K. 3+300	25	739.50	0.00	0.00	0.00	0.00	0.00	0.00
46									
47	**(1) Zahorra artificial en arcenes y paquete de firme**								
48	**(2) Zahorra artificial en mediana y bermas**								

RESUMEN DE MEDICIONES DE FIRME

	MBC Discontinua BBTM 11B			MBC AC22 bin S			MBC AC32 base G			MBC AC16 surf S		
Ejes	**Betún PMB 45/80-60 (t)**	**Filler (t)**	**Mezcla (m2)**	**Betún 50/70 (t)**	**Filler (t)**	**Mezcla (t)**	**Betún 50/70 (t)**	**Filler (t)**	**Mezcla (t)**	**Betún 50/70 (t)**	**Filler (t)**	**Mezcla (t)**
	215.0020	**542.0110**	**543.0020**	**211.0020**	**542.0110**	**542.0050**	**211.0020**	**542.0110**	**542.0100**	**211.0020**	**542.0110**	**542.0010**
TRONCO	174.11	208.94	55,720.00	278.29	306.11	6,957.13	321.62	321.62	8,040.48			
PASOS DE MEDIANA	1.87	2.25	600.00	2.95	3.25	73.80	4.05	4.05	101.22			
ENLACE DA CASILLA												
ENLACE DA CASILLA RAMAL A	5.75	6.90	1,840.00	9.27	10.20	231.73	9.04	9.04	226.06			
ENLACE DA CASILLA RAMAL B	10.36	12.44	3,316.67	16.68	18.35	416.97	18.14	18.14	453.56			
REPOSICIÓN DE CAMINOS												
REPOSICIÓN DE CAMINO EN P.K. 1+830												
REPOSICIÓN DE CAMINO EN P.K. 2+120												
REPOSICIÓN DE CAMINO EN P.K. 3+430												
REPOSICIÓN DEL CAMINO DE SANTIAGO												
CAMINOS PARALELOS												
CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280												
CAMINO PARALELO RAMAL A ENLACE DE CASTILLA												
DESVÍOS PROVISIONALES												
SOLUCION N-525 DESVIO 4				19.60	21.56	490.03				22.14	26.57	492.02
SOLUCION N-525 DESVIO 3				20.58	22.63	514.39				23.24	27.89	516.48
SOLUCION N-525 SITUACION FINAL	16.12	19.35	5,160.00	25.59	28.15	639.85	35.51	35.51	887.84			
SOLUCION N-525 DESVIO 1 / INTERSECCION				2.87	3.16	71.83				3.25	3.89	72.12
DESVIO PROVISIONAL EN P.K. 3+300												
TOTAL	**208.23**	**249.87**	**66,636.67**	**375.83**	**413.41**	**9,395.72**	**388.37**	**388.37**	**9,709.17**	**48.63**	**58.35**	**1,080.63**

Nota: El pavimento de hormigón se mide directamente en las mediciones generales

RESUMEN DE MEDICIONES DE FIRME

	SUELO CEMENTO	RELLENOS	ZA BERMAS Y MEDIANA	Adherencia Discontinua	Emulsión Bituminosa C60BP3 ADH	Adherencia Convencional	Curado	Emulsión Bituminosa C60B3	ZA FIRMES	Imprimación	Emulsión Bituminosa C50BF4 IMP	Árido Imprimación + Curado
	513.0010	332.0060	510.0010		531.0040			531.0020	510.0010		530.0020	530.0010
Ejes	**m3**	**m3**	**m3**	**m2**	**t**	**m2**	**m2**	**t**	**m3**	**m2**	**t**	**t**
TRONCO	13,055.10	6,075.50		55,987.20	44.79	104,956.70	69,915.60	104.92	1,980.40			629.24
PASOS DE MEDIANA	120.00			600.00	0.48	1,200.00	600.00	1.08				5.40
ENLACE DA CASILLA												
ENLACE DA CASILLA RAMAL A	519.00	56.10		1,848.00	1.48	3,259.70	2,792.80	3.63	129.50			25.14
ENLACE DA CASILLA RAMAL B	1,016.70	79.30		3,338.80	2.67	6,130.40	4,665.10	6.48	184.50			41.99
REPOSICIÓN DE CAMINOS												
REPOSICIÓN DE CAMINO EN P.K. 1+830									274.70	963.40	1.45	8.67
REPOSICIÓN DE CAMINO EN P.K. 2+120									371.60	1,436.30	2.15	12.93
REPOSICIÓN DE CAMINO EN P.K. 3+430									487.40	1,712.80	2.57	15.42
REPOSICIÓN DEL CAMINO DE SANTIAGO									925.50	3,195.50	4.79	28.76
CAMINOS PARALELOS												
CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280									776.00	2,691.70	4.04	24.23
CAMINO PARALELO RAMAL A ENLACE DE CASTILLA									453.60	1,597.20	2.40	14.37
DESVÍOS PROVISIONALES												
SOLUCION N-525 DESVIO 4	927.90					8,120.00	4,351.70	7.48				39.17
SOLUCION N-525 DESVIO 3	972.10					8,516.50	4,553.60	7.84				40.98
SOLUCION N-525 SITUACION FINAL	1,079.90			5,183.70	4.15	10,540.40	5,509.20	9.63				49.58
SOLUCION N-525 DESVIO 1 / INTERSECCION	136.00					1,185.90	627.80	1.09				5.65
DESVIO PROVISIONAL EN P.K. 3+300									739.50	2,604.40	3.91	23.44
TOTAL	**17,826.70**	**6,210.90**		**66,957.70**	**53.57**	**143,909.60**	**93,015.80**	**142.16**	**6,322.70**	**14,201.30**	**21.30**	**964.95**

Nota: El pavimento de hormigón se mide directamente en las mediciones generales

RESUMEN DE FIRMES POR GRUPOS

GRUPO	EJE	PK inicial	PK final	LONGITUD	NOMBRE	S-CEMEN Volumen	S-CEMEN Riego	AC 32 base G Volumen	AC 32 base G Riego	S-C Arc Volumen	S-C Arc Riego	AC 22 bin S Volumen	AC 22 bin S Riego	BBTM 11B Volumen	BBTM 11B Riego	AC 22 bin S Arc Volumen	AC 22 bin S Arc Riego	BBTM 11B Arc Volumen	BBTM 11B Arc Riego	ZA Arc Volumen	ZA Arc Riego	ZA Volumen	ZA Riego	AC 16 surf Volumen	AC 16 surf Riego	Adherencia Disc	Adherencia	Curado	Imprimación
0	1				Tronco	12362.200	59990.400	3336.300	48059.500	692.900	9925.200	2333.800	46982.400	1375.700	46084.800	494.300	9914.800	295.900	9902.400	1980.400	8233.300	0.000	0.000	0.000	0.000	55987.2	104956.7	69915.6	0
					Pasos de mediana		600.000		600.000				600.000		600.000											600	1200	600	0
	4	0.000		100,531	---------- Enlace DE CASILLA																								
	5	0.000		110,518	250.037 ENLACE DA CASILLA Ramal A	475.400	2169.200	93.800	1359.200	43.600	623.600	63.100	1276.300	36.800	1227.700	31.100	624.200	18.400	620.300	129.500	486.000	0.000	0.000	0.000	0.000	1848.000	3259.7	2792.800	0
	8	21,934		88,000	371.619 ENLACE DA CASILLA Ramal B	959.800	3850.000	188.200	2716.900	56.900	815.100	128.600	2593.000	75.500	2520.200	40.900	820.500	24.000	818.600	184.500	653.200	0.000	0.000	0.000	0.000	3338.800	6130.4	4665.1	0
2					Reposicion de caminos																								
	14	0.000		100,531	188.195 REP, CAMINO EN P,K,1+830	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	274.700	963.400	0.000	0.000	0	0	0	963.400
	15	0.000		166,150	222.519 REP, CAMINO EN P,K,2+120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	371.600	1436.300	0.000	0.000	0	0	0	1436.300
	16	0.000		301,602	386.783 REP, CAMINO EN P,K,3+430	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	487.400	1712.800	0.000	0.000	0	0	0	1712.800
	19	0.000		61,822	381.778 REPOSICION DEL CAMINO DE SANTIAGO	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	925.500	3195.500	0.000	0.000	0	0	0	3195.500
4					Caminos paralelos																						0		
	21	0.000		126,285	804.095 CAMINO PARALELO M,I, DE P,K,2+500 A P,K,3+280	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	763.100	2691.700	0.000	0.000	0	0	0	2691.700
	25	5,000		52,270	281.191 CAMINO PARALELO RAMAL A ENL, DE CASILLA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	453.600	1597.200	0.000	0.000	0	0	0	1597.200
2					Desvios																						0		
	14	0.000		100,531	494.417 SOLUCION N-525 DESVIO 4	927.900	4351.700	0.000	0.000	0.000	0.000	283.700	4100.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	199.200	4020.000	0	8120.000	4351.7	0.000
	15	0.000		166,150	519.080 SOLUCION N-525 DESVIO 3	972.100	4553.600	0.000	0.000	0.000	0.000	297.600	4298.800	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	209.100	4217.700	0	8516.500	4553.6	0.000
					500.954 SOLUCION N-525 SITUACION FINAL	1079.900	5509.200	368.400	5305.800	0.000	0.000	260.100	5234.600	154.800	5183.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5183.7	10540.4	5509.2	0.000
	16	0.000		301,602	63.868 SOLUCION N-525 DESVIO 4 / INTERSECCION	134.600	627.800	0.000	0.000	0.000	0.000	41.400	597.700	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.200	588.200	0	1185.900	627.8	0.000
	19	0.000		61,822	500.392 DESVIO PROVISIONAL EN P,K, 3+300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	739.500	2604.400	0.000	0.000	0	0.000	0	2604.400
																									TOTAL	61774	115546.8	77973.5	11596.9

RESUMEN DE MEDICIONES DE FIRME - CONEXIÓN PROVISIONAL

	MBC Discontinua BBTM 11B				MBC AC22 bin S				MBC AC32 base G			
Ejes	**Volumen (m3)**	**Betún PMB 45/80-60 (t)**	**Filler (t)**	**Mezcla (m2)**	**Volumen (m3)**	**Betún 50/70 (t)**	**Filler (t)**	**Mezcla (t)**	**Volumen (m3)**	**Betún 50/70 (t)**	**Filler (t)**	**Mezcla (t)**
		215.0020	**542.0110**	**543.0020**		**211.0020**	**542.0110**	**542.0050**		**211.0020**	**542.0110**	**542.0100**
P1	106.00	11.04	13.25	3,533.33	249.60	24.56	27.02	614.02	360.70	34.77	34.77	869.29
P4	81.40	8.48	10.17	2,713.33	136.90	13.47	14.82	336.77	194.00	18.70	18.70	467.54
P5	40.20	4.19	5.02	1,340.00	67.80	6.67	7.34	166.79	96.50	9.30	9.30	232.57
P6	24.90	2.59	3.11	830.00	42.30	4.16	4.58	104.06	60.40	5.82	5.82	145.56
P7	22.00	2.29	2.75	733.33	37.20	3.66	4.03	91.51	52.80	5.09	5.09	127.25
P8	25.30	2.64	3.16	843.33	42.80	4.21	4.63	105.29	60.90	5.87	5.87	146.77
P10	19.30	2.01	2.41	643.33	32.80	3.23	3.55	80.69	47.10	4.54	4.54	113.51
P11	15.50	1.61	1.94	516.67	26.10	2.57	2.83	64.21	36.90	3.56	3.56	88.93
P13	13.30	1.39	1.66	443.33	22.60	2.22	2.45	55.60	32.40	3.12	3.12	78.08
P14	12.20	1.27	1.52	406.67	20.80	2.05	2.25	51.17	29.90	2.88	2.88	72.06
TOTAL		**37.51**	**45.01**	**12,003.33**		**66.80**	**73.48**	**1,670.09**		**93.66**	**93.66**	**2,341.56**

RESUMEN DE MEDICIONES DE FIRME - CONEXIÓN PROVISIONAL

	Suelo Adecuado Berma	Suelo Cemento	Adherencia Discontinua	Emulsión Bituminosa C60BP3 TER	Adherencia Convencional	Emulsión Bituminosa C60B3 TER	Curado	Emulsión Bituminosa C60B3 CUR	Árido Curado
Ejes	**330.0040N1**	**513.0010**		**213.0040**		**213.0020**		**531.0020**	**530.0010**
	m3	**m3**	**m2**	**t**	**m2**	**t**	**m2**	**t**	**t**
P1	111.20	753.30	3,591.10	2.87	7,085.90	4.25	7,296.80	4.38	65.67
P4	179.80	583.00	2,766.10	2.21	5,449.70	3.27	5,632.20	3.38	50.69
P5	39.10	285.10	1,371.40	1.10	2,687.30	1.61	2,810.00	1.69	25.29
P6	113.00	185.20	857.90	0.69	1,670.50	1.00	1,770.60	1.06	15.94
P7	50.50	156.60	752.20	0.60	1,477.20	0.89	1,536.60	0.92	13.83
P8	88.40	183.90	865.40	0.69	1,694.00	1.02	1,773.80	1.06	15.96
P10	30.80	143.10	667.50	0.53	1,292.70	0.78	1,385.20	0.83	12.47
P11	11.00	109.20	525.60	0.42	1,034.20	0.62	1,070.40	0.64	9.63
P13	48.70	98.90	459.90	0.37	891.20	0.53	953.40	0.57	8.58
P14	66.20	92.50	423.10	0.34	817.90	0.49	879.20	0.53	7.91
TOTAL	**738.70**	**2,590.80**	**12,280.20**	**9.82**	**24,100.60**	**14.46**	**25,108.20**	**15.06**	**225.97**

1.1.3. DRENAJE

DRENAJE - MEDICIONES AUXILIARES

UNIDAD DE OBRA	Ud	TRONCO						ENLACE DA CASILLA	CAMINOS	SUMA ENLACES	SUMA TOTAL
		DE P.K.	DE P.K.	DE P.K.	DE P.K.	DE P.K.	SUMA TRONCO				
		1+734	2+400	3+100	3+800	4+500					
		A P.K.	A P.K.	A P.K.	A P.K.	A P.K.					
		2+400	3+100	3+800	4+500	4+840					
Cuneta triangular revestida en mediana tipo CMR	**m**	632	300	20	0	0	952	0	0	0	**952**
Cuneta triangular revestida en mediana tipo CMR1	**m**	0	0	385	0	195	580	0	0	0	**580**
Cuneta triangular revestida en laterales tipo CLR	**m**	819	950	851	0	55	2,675	370	0	370	**3,045**
Caz D=400 mm	**m**	68	538	107	0	55	768	90	0	90	**858**
Canal semicircular D=300mm	**m**	0	0	170	0	0	170	205	0	205	**375**
Cuneta de guarda revestida escalonada tipo CR1	**m**	565	70	1,800	0	70	2,505	0	410	410	**2,915**
Cuneta de guarda revestida tipo CR1	**m**	86	875	80	0	150	1,191	455	64	519	**1,710**
Cuneta de guarda revestida escalonada tipo CR2	**m**	0	0	130	0	0	130	0	0	0	**130**
Cuneta revestida entre taludes tipo CET	**m**	43	0	0	0	0	43	0	0	0	**43**
Dren P.V.C. de D= 200 mm	**m**	1,519	1,788	1,363	0	305	4,975	460	0	460	**5,435**
Badén inundable	**m^2**	0	0	0	0	0	0	0	0	0	**0**
Bordillo	**m**	100	205	180	0	40	525	350	47	397	**922**
Bordillo Rigola	**m**	0	0	0	0	0	0	0	0	0	**0**
Bajante prefabricada tipo B1	**m**	96	108	137	0	0	341	95	36	131	**472**
Bajante prefabricada tipo B2	**m**	14	0	145	0	0	159	0	0	0	**159**
Arqueta de mediana, lateral y de registro de dren	**Ud**	6	5	0	1	0	12	4	2	6	**18**
Pozo de registro	**Ud**	0	0	0	0	0	0	0	0	0	**0**
Colector D=40 cm en cruce de calzada	**m**	100	13	55	0	36	204	80	0	80	**284**
Colector D=50 cm en cruce de calzada	**m**	0	0	0	0	42	42	60	0	60	**102**
Colector D=60 cm en cruce de calzada	**m**	0	0	47	0	0	47	0	30	30	**77**
Colector D=80 cm en cruce de calzada	**m**	0	0	0	0	0	0	0	0	0	**0**
Colector D=100 cm en cruce de calzada	**m**	0	0	0	0	0	0	0	0	0	**0**
Colector D=40 cm bajo cuneta o terreno	**m**	216	445	245	0	0	906	0	0	0	**906**
Colector D=60 cm bajo cuneta o terreno	**m**	0	0	0	0	0	0	0	0	0	**0**
Colector D=80 cm bajo cuneta o terreno	**m**	0	45	0	0	0	45	0	0	0	**45**
Boquilla y aletas para colector de D=40 cm	**Ud**	4	3	3	0	1	11	4	0	4	**15**
Boquilla y aletas para colector de D=50 cm	**Ud**	0	0	0	0	0	0	1	0	1	**1**
Boquilla y aletas para colector de D=60 cm	**Ud**	0	0	1	0	0	1	0	4	4	**5**
Boquilla y aletas para colector de D=80 cm	**Ud**	0	1	0	0	0	1	0	0	0	**1**
Boquilla y aletas para colector de D=100 cm	**Ud**	0	0	0	0	0	0	0	0	0	**0**
Sumidero con rejilla de fundición modelo Ministerio de Fomento 600x400x50mm	**Ud**	0	1	5	0	0	6	0	0	0	**6**
Cuneta lateral en pérgola	**m**	235	0	0	0	0	235	0	0	0	**235**
Arqueta de registro de dren	**ud**	37	27	31	2	7	104	8	0	8	**112**
Relleno de tierras	**m^3**	0	100	0	0	0	100	0	0	0	**100**

1.1.4. SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS

MEDICIONES AUXILIARES - SEÑALIZACIÓN HORIZONTAL

MARCAS VIALES		LONGITUD (M)	Nº CARRILES	BORDE DERECHO M-2.6	BORDE IZQUIERDO M-2.6	EJE M-1.2	RAMALES ENTRADA SALIDA M-1.7	BORDE DERECHO M-2.6	BORDE IZQUIERDO M-2.6	EJE RAMALES M-1.3	EJE RAMALES M-1.2	CEDA EL PASO M-4.2	CEBREADO M-7.1	CEBREADO M-7.2
Tronco principal derecho		3105.20	2	2844.20	3105.20	3105.20	261.00						460.00	
Tronco principal izquierdo		3105.20	2	2844.20	3105.20	3105.20	261.00						460.00	
RESTO	3º Carril der.	1200.00	1				1200.00							
	3º Carril izq.	1540.00	1				1540.00							
	Enlace da Casilla Ramal A	355.00	1					355.00	355.00					
	Enlace da Casilla Ramal B	436.00	1					436.00	436.00					
	Accesos centro de transformacion	240.00	1					240.00	240.00			3.50		
MEDICIÓN PARCIAL				5,688.40	6,210.40	6,210.40	3,262.00	1,031.00	1,031.00	-	-	3.50	920.00	-
Ancho banda (cm)				15	15	15	30	15	15	10	15	40		
Coeficientes**				0.33	1	0.28	0.5	1	1	0.27	1	0.33	0.286	0.286
				ml	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**M2**	**M2**
	TOTAL			**1,877.17**	**6,210.40**	**1,738.91**	**1,631.00**	**1,031.00**	**1,031.00**	**0.00**	**0.00**	**1.16**	**263.12**	**0.00**

**Coeficientes para obtener la cantidad realmente pintada de marca vial

	RESUMEN	CANTIDAD	Ud.	CÓDIGO
1	**Marca vial 10 cm**	**0.00**	**ml**	700.0010
2	**Marca vial 15 cm**	**11,888.48**	**ml**	700.0020
3	**Marca vial 30 cm**	**1,631.00**	**ml**	700.0035N1
4	**Marca vial 40 cm**	**1.16**	**ml**	700.0035N2
5	**Cebreado**	**322.37**	**m2**	700.0145N1

Flechas y otras marcas:

	nº	Area	Total
Flecha 5.1.1	27	1.8	48.6
Flecha 5.1.2	0	2.33	0
Flecha 5.1.3	0	3.3	0
Flecha 5.4	0	4.185	0
Ceda el paso	3	1.43	4.29
STOP	2	3.18	6.36
		TOTAL	**59.25**

MEDICIONES AUXILIARES - SEÑALIZACIÓN VERTICAL

SEÑALES

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES CIRCULARES 120cm 701.0050	**R-301 - velocidad máxima**	
	TRONCO - SENTIDO CRECIENTE	4
	TRONCO - SENTIDO DECRECIENTE	4
	R-400c - sentido obligatorio	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	1
	R-101 - entrada prohibida	
	TRONCO - SENTIDO CRECIENTE	1
	TOTAL	12

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES CIRCULARES 90cm 701.0080	**R-101 - entrada prohibida**	
	ENLACE DA CASILLA	1
	R-301 - velocidad máxima	
	ENLACE DA CASILLA	2
	CAMINOS	4
	R-402 - intersección de sentido giratorio obligatorio	
	ENLACE DA CASILLA	1
	TOTAL	8

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES OCTOGONALES 90cm 701.0110	**R-2 - detención obligatoria o STOP**	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	1
	TOTAL	3

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES TRANGULARES 175cm 701.0010	**R-1 - ceda el paso**	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	P-13a - curva peligrosa hacia la derecha	
	TRONCO - SENTIDO CRECIENTE	0
	TRONCO - SENTIDO DECRECIENTE	1
	P-13b - curva peligrosa hacia la izquierda	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	P-15 - perfil irregular	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	P-17a - estrechamiento calzada por la derecha	
	TRONCO - SENTIDO CRECIENTE	
	TRONCO - SENTIDO DECRECIENTE	1
	TOTAL	8

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES TRANGULARES 135cm 701.0040	**P-4 - intersección con circulación giratoria**	
	ENLACE DA CASILLA	1
	P-13b - curva peligrosa hacia la izquierda	
	ENLACE DA CASILLA	1
	R-1 - ceda el paso	
	ENLACE DA CASILLA	2
	TOTAL	4

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES CUADRADAS 120cm 701.0120	**S-7 - máxima velocidad aconsejada**	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	0
	ENLACE DA CASILLA	1
	S-11a - calzada de sentido único	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	0
	S-25 - cambio de sentido a distinto nivel	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	TOTAL	7

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES RECTANGULARES 90X135cm 701.0180	**S-1a - inicio de autovía**	
	ENLACE DE QUINTELA	1
	ENLACE DA CASILLA	1
	S-2a - fin de autovía	
	ENLACE DE QUINTELA	1
	ENLACE DA CASILLA	1
	S-5 - túnel	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	2
	S-52 - final de carril destinado a la circulación	
	TRONCO - SENTIDO DECRECIENTE	4
	S-53b - paso de dos a tres carriles de circulación	
	TRONCO - SENTIDO CRECIENTE	4
	TOTAL	16

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES RECTANGULARES 60X120cm 701.0200	**S-26a - panel de aproximación a salida 100 m**	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	S-26b - panel de aproximación a salida 200 m	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	S-26c - panel de aproximación a salida 300 m	
	TRONCO - SENTIDO CRECIENTE	1
	TRONCO - SENTIDO DECRECIENTE	1
	TOTAL	6

	TIPO DE SEÑALVERTICAL SEGÚN 8.1 IC / UBICACIÓN	Nº DE SEÑALES
SEÑALES RECTANGULARES (S-800) (S-870) 40X95cm 701.0200N2	**S-800 - distancia al comienzo del peligro o prescripción**	
	TRONCO - SENTIDO CRECIENTE	2
	TRONCO - SENTIDO DECRECIENTE	2
	ENLACE DA CASILLA	2
	S-870 - placa complementaria de señalización vertical	
	ENLACE DE QUINTELA	2
	ENLACE DA CASILLA	2
	TOTAL	10

CARTELES

Panel de chapa de acero galvanizado en carteles flecha (m2)

CARTELES FLECHA

REFLECTANCIA	NOMBRE CARTEL	SUPERFICIE (m2)
Nivel reflect. 2 701.0230	F2a-H8	1.048
	F3-H8	0.480
	F4-H8	0.600
	F5-H8	0.808
	F6	0.720
	TOTAL	**3.656**
Nivel reflect. 3 701.0220	F1-H4	1.365
	F1-H8	1.365
	TOTAL	**2.730**

Soporte IPN-120 (S<2m2) - Carteles flecha

NÚMERO	LONGITUD (m)	PARCIALES (m)
2	0.9	1.8
2	0.9	1.8
2	0.9	1.8
2	0.9	1.8
2	0.9	1.8
2	0.9	1.8
TOTAL		**10.8**

Panel de aluminio extrusionada en carteles laterales, pórticos y banderolas (m2)

CARTELES, PÓRTICOS Y BANDEROLAS

REFLECTANCIA	NOMBRE CARTEL	SUPERFICIE (m2)
Nivel reflect. 2 701.0270	G1-H8	9.441
	G2-H8	9.310
	G3-H8	9.310
	G4-H8	8.820
	G5	9.310
	TOTAL	**46.191**
Nivel reflect. 3 701.0280	P1a ITIN - H4 (salida inminente)	19.443
	P1b SALIDA - H4	17.710
	P1a ITIN - H4 (salida 500 m)	19.443
	B1 - H5	20.125
	C1 - H6	21.219
	B1 - H6	24.614
	P1b SALIDA - H8	27.195
	P1a ITIN - H8	24.010
	TOTAL	**173.759**
Nivel reflect. 3 701.0260	CONF 1 - H4	3.360
	CONF 1 - H6	4.130
	CONF1b - H6	3.780
	P1a ITIN - H8 - túnel	7.403
	B1 - H6 - tunel	4.489
	Tunel Eiroas 1 (x 4 carteles)	45.360
	Tunel Eiroas 2 (x4 carteles)	43.120
	Cartel entrada Autovía	7.438
	TOTAL	**119.080**

TIPO IPN	LONGITUD POSTE	LONGITUD TOTAL
220	4.00	8.000
220	4.00	8.000
220	4.00	8.000
220	4.00	8.000
220	4.00	8.000
140	3.05	6.100
160	3.40	6.800
140	3.05	6.100
160	3.40	6.800
160	3.40	6.800
220	4.00	8.000
220	4.00	8.000
160	3.40	6.800
TOTAL		**95.400**

PÓRTICOS Y BANDEROLAS

CÓDIGO	DESCRIPCIÓN	UNIDADES (ud)
701.0310	Banderola de hasta 7,00 m de brazo y hasta 30 m2 de cartelería	**2.000**
701.0340	Pórtico de hasta 16,00 m y hasta 40 m2 de cartelería	**1.000**
701.0350	Pórtico de hasta 17,00 m y hasta 60 m2 de cartelería	**2.000**

MEDICIONES AUXILIARES - DEFENSAS

TIPO DE BARRERA	Barrera 1 (N2, W4)	Barrera 2 (BHS) (H2, W1)	Barrera 3 (H1, W4)	Barrera 4 (BHD) (H1, W4)	Barrera 5 (SPM) (N2, W4)	Barrera 6 (SPM) (H1, W4)	Barrera 8 (BDD) (H2, W2)	Barrera protección de aves	Barrera 9 Defensa pata pórtico
	Metálica simple	Hormigón Simple	Metálica superpuesta	Homigón doble mediana	Metálica simple con SPM	Metálica simple con SPM	Barrera pasos de mediana	Barrera protección aves	Hormigón doble embebido
UNIDAD	704.0540	704.0740	704.0610	704.2630	704.1520	704.1620	704.3710	801.0450	704.0740N1
LONGITUD (m)	**2,560.00**	**1,389.00**	**2,313.00**	**1,091.00**	**1,484.00**	**476.00**	**100.00**	**57.00**	**193.00**

MEDICIONES AUXILIARES - BALIZAMIENTO

Longitud del tronco (m)	3,150
Longitud de ramales y enlaces (m)	791
Borde carril cambio velocidad (m)	522

CAPTAFAROS

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Captafaro horizontal "ojo de gato" con reflectancia a dos caras	702.0020	Tronco	692
		Ramales	66
		TOTAL	**758**

HITO KILOMÉTRICO

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Hito kilométrico S-570	701.0410	Tronco	6
		TOTAL	**6**

BALIZA CILÍNDRICA

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Baliza cilíndrica CH-75	703.0010	Tronco	18
		TOTAL	**18**

HITO DE VÉRTICE

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Hito de vértice N-120	703.0020	Tronco	2
		TOTAL	**2**

HITO DE ARISTA

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Hito de arista H-155 de tipo II	703.0050	Tronco	253
		Ramales	34
		TOTAL	**287**

PANEL DIRECCIONAL

TIPO	CÓDIGO	LOCALIZACIÓN	NÚMERO (ud)
Panel direccional 160x40 cm	703.0080	Tronco	25
		Ramales	7
		TOTAL	**32**

1.1.5. DESVÍOS PROVISIONALES

P. CONSTRUCCIÓN VARIANTE DE OURENSE. TRAMO: ENLACE DE QUINTELA- ENLACE DE CASILLA

Mediciones de desvíos.

CONCEPTO	MEDICIONES POR FASE				*Uds.DEFINITIVAS*
	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
m. Marca Vial amarilla de 10cm en desvíos de obra					
TOTAL	2720	3040	2720	2720	**11200**
				TOTAL	**11200**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
m2. Marca Vial amarilla en símbolos en desvíos de obra					
TOTAL	40	85	75	85	**285**
				TOTAL	**285**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal triangular de lado 135 cm, fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 1	3	3	3	3	**3**
Hoja 3	2	2	2	2	**2**
Hoja 4	2	2	2	2	**2**
Hoja 5	7	7	6	2	**7**
				TOTAL	**14**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal circular de diámetro 120 cm, fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 1	6	4	4	4	**6**
Hoja 3	2	4	2	2	**4**
Hoja 4	2	2	2	2	**2**
Hoja 5	5	12	10	2	**12**
				TOTAL	**24**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal rectangular de 90 x 135 cm., fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 5		2	1		**2**
				TOTAL	**2**

Mediciones de desvíos.

CONCEPTO	MEDICIONES POR FASE				*Uds.DEFINITIVAS*
	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal octogonal de dobel apotema de 90 cm, fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 5	1	1	1		**1**
				TOTAL	**1**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal rectangular de 90 x 30 cm., fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 1	2				**2**
Hoja 3		1			**1**
Hoja 5					**0**
				TOTAL	**3**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Señal cuadrada de 120 cm de lado, fondo amarillo (para desvíos de obra) con base autoportante, incluso colocación y lastrado					
Hoja 1		1	1	1	**1**
Hoja 3		1			**1**
					0
				TOTAL	**2**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
m. barrera rígida de obra desmontable, en material plástico					
Hoja 1	10	30	20	20	**30**
Hoja 3		118.8		40	**118.8**
Hoja 4			79.7		**79.7**
Hoja 5	65.3	451.9	520	106.3	**520**
				TOTAL	**748.5**

Mediciones de desvíos.

CONCEPTO	MEDICIONES POR FASE				*Uds.DEFINITIVAS*
	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Panel direccional tipo TB-2, en desvíos, colocado.					
Hoja 1	2	2	2	2	**2**
Hoja 3		4			**4**
Hoja 5	1	6	6		**6**
				TOTAL	**12**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
Ud Baliza luminosa intermitente, tipo TL-2, con célula fotoeléctrica, bateria, e instalación					
Hoja 1	2	2	2	2	**2**
Hoja 3		4			**4**
Hoja 5	1	6	6		**6**
				TOTAL	**12**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
M^2 Cartel de chapa de acero galvanizado (S/ medición de carteles de obra)					
F-6-OBRA	2.70	2.70	2.70	2.70	**2.7**
F-7-OBRA	9.88	29.64	9.88	9.88	**29.64**
				TOTAL	**32.34**

	FASE 1	***FASE 2***	***FASE 3***	***FASE 4***	
M^2 Cartel tipo flecha amarillo en carteles de obra (S/ medición de carteles de obra)					
F-1-OBRA	0.238	0.238	0.238	0	**0.238**
F-2-OBRA	0.238	0.238	0.238	0	**0.238**
F-3-OBRA	0.943	0.943	0.943	0	**0.943**
F-4-OBRA	0.363	0.363	0.363	0	**0.363**
F-5-OBRA	1.073	1.073	1.073	1.073	**1.073**
				TOTAL	**2.855**

MEDICIONES AUXILIARES - SEÑALIZACIÓN HORIZONTAL DEFINITIVA EN REPOSICIÓN DE N-525

MARCAS VIALES	LONGITUD (M)	Nº CARRILES	BORDE DERECHO M-2.6	BORDE IZQUIERDO M-2.6	EJE M-2.2	RAMALES ENTRADA SALIDA M-1.7	BORDE DERECHO M-7.3	BORDE IZQUIERDO M-2.6	EJE RAMALES M-1.3	EJE RAMALES M-1.2	CEDA EL PASO M-4.2	CEBREADO M-7.1	CEBREADO M-7.2
Calzada principal N-525	500.95	2	363.75	370.45	500.95	35.50	137.20	130.50					160.00
Intersección con OU-150	58.65	2	176.40	80.50		25.00							81.00
MEDICIÓN PARCIAL			540.15	450.95	500.95	60.50	137.20	130.50	-	-	-	-	241.00
Ancho banda (cm)			15	15	15	30	15	15	10	15	40		
Coeficientes**			0.33	1	0.28	0.5	1	1	0.27	1	0.33	0.286	0.286
			ml	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**ml**	**M2**	**M2**
	TOTAL		**178.25**	**450.95**	**140.27**	**30.25**	**137.20**	**130.50**	**0.00**	**0.00**	**0.00**	**0.00**	**68.93**

**Coeficientes para obtener la cantidad realmente pintada de marca vial

	RESUMEN	CANTIDAD	Ud.	CÓDIGO
1	**Marca vial 10 cm**	**0.00**	**ml**	700.0010
2	**Marca vial 15 cm**	**1,037.17**	**ml**	700.0020
3	**Marca vial 30 cm**	**30.25**	**ml**	700.0035N1
4	**Marca vial 40 cm**	**0.00**	**ml**	700.0035N2
5	**Cebreado**	**83.23**	**m2**	700.0145N1

Flechas y otras marcas:

	nº	Area	Total
Flecha 5.2.1	2	1.2	2.4
Flecha 5.2.2	1	1.5	1.5
Flecha 5.2.3	2	2.18	4.36
Flecha 5.4	0	4.185	0
Ceda el paso	2	1.43	2.86
STOP	1	3.18	3.18
		TOTAL	**14.3**

MEDICIONES AUXILIARES - SEÑALIZACIÓN VERTICAL DEFINITIVA EN REPOSICIÓN DE N-525

	SEÑALES Y CARTELES A LEVANTAR PARA POSTERIOR REUTILIZACIÓN DE LA PLACA	Nº DE SEÑALES
LEVANTAMIENTO DE SEÑALIZACIÓN 301.0125N1	**SEÑALES**	
	CALZADA PRINCIPAL N-525	15
	INTERSECCIÓN CON OU-150	6
	CARTELES	
	CALZADA PRINCIPAL N-525	10
	INTERSECCIÓN CON OU-150	6
	TOTAL	37

	INSTALACIÓN DE POSTES CON COLOCACIÓN DE PLACA REUTILIZADA DE SEÑALES O CARTELES	Nº DE POSTES
POSTES SIMPLES A INSTALAR 701.0035N1	**INSTALACIÓN DE POSTE ÚNICO**	
	CALZADA PRINCIPAL N-525	15
	INTERSECCIÓN CON OU-150	6
	TOTAL	21

POSTES DOBLES A INSTALAR 701.0225N1	**INSTALACIÓN DE POSTE DOBLE**	
	CALZADA PRINCIPAL N-525	10
	INTERSECCIÓN CON OU-150	6
	TOTAL	16

MEDICIONES AUXILIARES - DEFENSAS
DEFINITIVA EN REPOSICIÓN DE N-525

TIPO DE BARRERA	Barrera 1 (N2, W4)	Barrera 5 (SPM) (N2, W4)
	Metálica simple	Metálica simple con SPM
UNIDAD	704.0540	704.1520
LONGITUD (m)	**234.00**	**56.00**

1.2. MEDICIONES GENERALES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 01 EXPLANACIONES						
	SUBCAPÍTULO 01.1 TRABAJOS PRELIMINARES						
300.0010	m² DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS						
	DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS I/ DESTOCONADO, ARRANQUE, CARGA Y TRANSPORTE A VERTEDERO O GESTOR AUTORIZADO DE AQUELLOS RESTOS QUE SEA NECESARIO, HASTA UNA DISTANCIA DE 60 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	S/ med Aux		253,915.91			253,915.91	253,915.91
							253,915.910
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE						
	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	DEMOLICIÓN DE FIRME DE CAMINOS	180.00	6.00			1,080.00	
		100.00	6.00			600.00	
		225.00	6.00			1,350.00	
		350.00	5.00			1,750.00	4,780.00
							4,780.000
301.0010	m³ DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE						
	DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE I/ DEMOLICIÓN DE LA CIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	EDIFICACIONES ENLACE DA CASILLA	60.00	25.00	4.00	6,000.00	6,000.00	
							6,000.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 01.2 MOVIMIENTO DE TIERRAS						
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	% sobre volumen	0.065	16,278.34			1,058.09	1,058.09
							1,058.090
320.0010	m³ EXCAVACIÓN DE TIERRA VEGETAL						
	EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.						
	S/ Med Aux		81,415.58			81,415.58	81,415.58
							81,415.580
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km						
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	S/ Med Aux						
	EXC_SUELO_1		47,151.520			47,151.520	
	EXC_SUELO_2		37,221.870			37,221.870	
	EXC_SUELO_3		416,924.770			416,924.770	
	A descontar Tunel EXC_SUELO_3		-36,576.200			-36,576.200	
	EXC_ROCA_1		542,036.480			542,036.480	
	A descontar Tunel EXC_ROCA_1		-51,371.400			-51,371.400	
	EXC_ROCA_2		740,524.930			740,524.930	
	A descontar Tunel EXC_ROCA_2		-134,432.700			-134,432.700	1,561,479.270

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1,561,479.270
322.0010	m² PRECORTE PARA TALUDES EN ROCA						
	PRECORTE PARA TALUDES EN ROCA PARA CUALQUIER INCLINACIÓN DEL TALUD (INCLUSO ESCALONADO EN CIMIENTOS EN ROCA) CON TALADROS I/ EJECUCIÓN DE TALADROS, REGULARIZACIÓN O SANEO TRAS REALIZAR EL PRECORTE.						
	En desmontes en GR III						
	Desmonte D1	2.82	160.00		4.00	1,804.80	
	Desmonte D2	2.82	120.00		3.00	1,015.20	
	Desmonte D3	2.82	20.00		1.00	56.40	
	Desmonte D4	2.82	400.00		11.00	12,408.00	
	Desmonte D5	2.82	140.00		2.00	789.60	
	Desmonte D6	2.82	10.00		2.00	56.40	
	Desmonte D7	2.82	80.00		3.00	676.80	
	En emboquilles en GR III						
	Oeste	1	75.00		2.00	150.00	
	Este	1	89.30		8.00	714.40	17,671.60
							17,671.600
330.0020	m³ TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN						
	TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO. (EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).						
	S/ Med Aux						
	TERRAPLÉN		196,804.98			196,804.98	
	PEDRAPLÉN		108,113.64			108,113.64	304,918.62
							304,918.620
330.0040N1	m³ SUELO ADECUADO DE LA EXCAVACIÓN						
	SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.						
	S/ Med Aux		8,020.990			8,020.990	8,020.990
							8,020.990
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	S/Med auxiliar		124.90			124.90	124.90
							124.900
531.0020	t EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO						
	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.						
	S/Med auxiliar						
	Riego de curado sobre la explanada (Dot. 0,6 kg/m2)	0.0006	69,915.60			41.95	41.95
							41.950
530.0010	t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO						
	ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.						
	S/Med auxiliar						
	Riego de curado sobre la explanada						
	(Dotación árido 0.005, Densidad 1.8)	0.005	69,915.60	1.80		629.24	629.24
							629.240
512.0110	m³ SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA						
	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.						
	S/ Med Aux		16,278.34			16,278.34	16,278.34
							16,278.340

SUBCAPÍTULO 01.3 ACTUACIONES GEOTÉCNICAS

APARTADO 01.3.1 ACTUACIONES GEOTÉCNICAS EN RELLENOS

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

	Muro escollera ME-2	1	963.53			963.53	963.53
							963.530

417.0040 m TUBO DE PVC DE DIÁMETRO 250 mm

TUBO DE PVC DE DIÁMETRO 250MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.

	Muro escollera ME-2	1	125.00			125.00	125.00
							125.000

610.0010N1 m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN

HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.

	Muro escollera ME-2						
	Cuneta Revestida		20.630			20.630	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Coronación		84.380			84.380	105.010
							105.010

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

	Muro escollera ME-2	1	289.06			289.06	289.06
							289.060

658.0080N1 m³ ESCOLLERA COLOCADA CON BLOQUES DE 1000-3000 kg SIN RELLENO TRASDÓS

MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.

	Muro escollera ME-1	1	2,759.200			2,759.200	2,759.200
							2,759.200

APARTADO 01.3.2 ACTUACIONES GEOTÉCNICAS EN DESMONTES

290.0090 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO TIPO 9 COMO PROTECCIÓN

GEOTEXTIL FORMADO 100 % POR FIBRAS DE PROLIPROPILENO VIRGEN TIPO 9 I/ P.P. DE SOLAPES, TOTALMENTE COLOCADO COMO PROTECCIÓN, Y CON LAS SIGUIENTES PROPIEDADES FÍSICAS: RESISTENCIA A LA TRACCIÓN LONGITUDINAL DE MÁS DE 34,9 KN/M, RESISTENCIA A LA TRACCIÓN TRANSVERSAL DE MÁS DE 43,7 KN/M, ELONGACIÓN LONGITUDINAL EN ROTURA DE MÁS DE 65%, ELONGACIÓN TRANSVERSAL EN ROTURA DE MÁS DE 75%, PUNZONAMIENTO ESTÁTICO (CBR) DE MÁS DE 6910 N, PERFORACIÓN DINÁMICA (CAIDA CONO) DE MENOS DE 5,5 MM Y PERMEABILIDAD AL AGUA DE MÁS DE 19,1 10-6/M²/S.

	Muro escollera ME-1	1	215.75			215.75	215.75
							215.750

307.0080 m² PROTECCIÓN DE TALUD CON BARRERA DINÁMICA CONTRA CAÍDAS DE PIEDRAS CON CAPACIDAD DE ABSORCIÓN DE 500 KJ

BARRERA DINÁMICA PARA LA RETENCIÓN DE DESPRENDIMIENTOS ROCOSOS. CAPACIDAD DE ABSORCIÓN DE ENERGÍA = 500 KJ. CONSTRUIDA Y ENSAYADA SEGÚN RECOMENACIÓN DE LA GUIA ETAG 027, EAD 340059-00 O ANALOGOS Y CON MARCADO CE. ALTURA DE 2,0 A 2,5 M, CON UNA SEPARACIÓN ENTRE POSTES DE SOSTENIMIENTO DE 8

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A 12 METROS MÁXIMO Y CERRAMIENTO POR MEDIO DE RED DE CABLE O RED DE ANILLOS Y/O MALLAS DE ACERO GALVANIZADO DE DIMENSIONES EQUIVALENTES, COMPLE-TAMENTE TERMINADA.						
	S/plano 2.14.3.4	1	120.00			120.00	120.00
							120.000
320.0090	m³ EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLOSIVOS						
	EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLO-SIVOS, CONSIDERÁNDOSE TRABAJO DE RETALUZADO CUANDO LA ALTURA ENTRE EL PIE DEL TALUD, EN EL MO-MENTO DE EFECTUAR EL TRABAJO, Y LA CORONACIÓN DEL MISMO SEA IGUAL O SUPERIOR A 8 M I/CARGA Y TRANS-PORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Muro escollera ME-1	1	198.62			198.62	198.62
							198.620
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANS-PORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Muro escollera ME-1	1	52.15			52.15	
	Zanjas drenantes (plano 2.14.3.5)	1	393.60			393.60	445.75
							445.750
332.1000	m³ RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANULAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 mm DE GRANULOMETRÍA Y FIELTRO DE POLIPROPI						
	RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANU-LAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 MM DE GRANULO-METRÍA Y FIELTRO DE POLIPROPILENO CON UN PESO MÍNI-MO DE 80G/M2 PARA TODAS LAS PERMEABILIDADES						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Zanjas drenantes (plano 2.14.3.5)	1	542.80			542.80	542.80
							542.800
342.0040	m² PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 mm Y DIÁMETRO HASTA 2,4 mm, ANCLADA CON						
	PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 MM Y DIÁME-TRO HASTA 2,4 MM, ANCLADA CON BARRAS DE ACERO CO-RRUGADAS Y SUJETA CON PIQUETAS DE ANCLAJE.						
	S/plano 2.14.3.2	1	4,836.61			4,836.61	4,836.61
							4,836.610
342.0200	m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO						
	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALU-DES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO ME-DIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
	S/plano 2.14.3.1	1	516.30			516.30	516.30
							516.300
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEO-TEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
	Zanjas drenantes (plano 2.14.3.5)	1	665.000			665.000	665.000
							665.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
	Muro escollera ME-1	1	5.250			5.250	5.250

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							5.250
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Muro escollera ME-1	1	15.65			15.65	15.65
							15.650
658.0070N1	m³ RECUBRIMIENTO DE ESCOLLERA COLOCADA CON BLOQUES DE 300-1000 KG SIN RELLENO TRASDÓS						
	RECUBRIMIENTO SUPERFICIAL DE ESCOLLERA COLOCADA CON BLOQUES DE 300 A 1000 KG (HUSO HMB 300/1000), CONFORME A UNE EN 13383-1.						
	Muro escollera ME-1	1	116.380			116.380	116.380
							116.380
658.0080N1	m³ ESCOLLERA COLOCADA CON BLOQUES DE 1000-3000 kg SIN RELLENO TRASDÓS						
	MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.						
	Muro escollera ME-1	1	222.770			222.770	222.770
							222.770

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 02 DRENAJE						
	SUBCAPÍTULO 02.1 DRENAJE LONGITUDINAL						
	APARTADO 02.1.1 TRONCO						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Cunetas CR-1	1,191	0.92	0.60		657.43	
	Colectores dia. 400 bajo calzada	204	1.30	1.50		397.80	
	Colectores dia. 500 bajo calzada	42	1.40	1.60		94.08	
	Colectores dia. 600 bajo calzada	47	1.50	1.70		119.85	
	Colectores dia. 400 bajo cuneta	906	1.30	1.50		1,766.70	
	Colectores dia. 800 bajo cuneta	45	1.95	1.90		166.73	
	Tubo dren 200mm	4,975	0.54	0.40		1,074.60	4,277.19
							4,277.190
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Colectores dia. 400 bajo calzada	204	1.30	1.20		318.24	
	Colectores dia. 500 bajo calzada	42	1.40	1.30		76.44	
	Colectores dia. 600 bajo calzada	47	1.50	1.40		98.70	
	Colectores dia. 400 bajo cuneta	906	1.30	1.20		1,413.36	
	Colectores dia. 800 bajo cuneta	45	1.95	1.10		96.53	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Colectores dia. 400 bajo cuneta (generatriz superior)	906	1.30	0.40		471.12	
	Colectores dia. 800 bajo cuneta (generatriz superior)	45	1.90	0.40		34.20	
	Relleno 2+420 MI S/M	100				100.00	2,608.59
							2,608.590

400.0010 m³ HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN

HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN

Cuneta CMR	952	1.55	0.10		147.56	
Cuneta CMR-1	580	3.65	0.10		211.70	
Cuneta CLR	2,675	3.05	0.10		815.88	
Cuneta CET	43	1.05	0.10		4.52	
Cuneta CR-1	1,191	1.80	0.10		214.38	1,394.04
						1,394.040

410.0021N1 ud ARQUETA DE REGISTRO PARA DRENES 0,50 x 0,50 x 1,00 m

ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.

Según medición auxiliar	104	104.000	104.000	
				104.000

410.0024N1 ud ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL

ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.

Según medición auxiliar	12	12.000	12.000	
				12.000

413.0010 m CAZ DE HORMIGÓN PREFABRICADO

CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.

Según medición auxiliar	768				768.00	768.00
						768.000

413.0010N1 m CANAL SEMICIRCULAR Ø 30 cm

CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.

Según medición auxiliar	170				170.000	170.000
						170.000

414.0040 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

Según medición auxiliar	1	204.00			204.00	204.00
						204.000

414.0060 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

Según medición auxiliar	1	42.00			42.00	42.00
						42.000

414.0090 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 600 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Según medición auxiliar	1	47.00			47.00	47.00
							47.000

414.0030 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 135

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

	Según medición auxiliar	1	906.00			906.00	906.00
							906.000

414.0110 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 800 mm CLASE 135

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 800MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

	Según medición auxiliar	45				45.00	45.00
							45.000

415.0010N1 ud BOQUILLA Y ALETAS PARA TUBO Ø=40 cm

BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

	Según medición auxiliar	1	11.000			11.000	11.000
							11.000

415.0020N1 ud BOQUILLA Y ALETAS PARA TUBO Ø=60 cm

BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

	Según medición auxiliar	1				1.000	1.000
							1.000

415.0030N1 ud BOQUILLA Y ALETAS PARA TUBO Ø=80 cm

BOQUILLA Y ALETAS PARA TUBO DE 80 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Según medición auxiliar	1				1.000	1.000
							1.000

424.0028N1 m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm

TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.

	Según medición auxiliar	1	4,975.000			4,975.000	4,975.000
							4,975.000

400.0020N1 m CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 1 ESCALONADA

CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS

	Según medición auxiliar	1	2,505.000			2,505.000	2,505.000
							2,505.000

400.0021N1 m CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 2 ESCALONADA

CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-2, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS

	Según medición auxiliar	1	130.000			130.000	130.000
							130.000

570.0050N1 m BORDILLO MONTABLE DE TERRAPLÉN

SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Según medición auxiliar	1	525.000			525.000	525.000
							525.000
430.0010	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
	Según medición auxiliar	1	341.00			341.00	341.00
							341.000
430.0020	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
	Según medición auxiliar	1	159.00			159.00	159.00
							159.000
411.0011N1	ud SUMIDERO CON REJILLA DE FUNDICIÓN						
	SUMIDERO, CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.						
	Según medición auxiliar	6				6.000	6.000
							6.000
400.0020N2	m³ HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS						
	HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS.						
	Cuneta lateral en pergola	1	235.000	1.900	0.150	66.975	66.975
							66.975
610.0020	m³ HORMIGÓN C20/25						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Colectores dia. 400 bajo calzada (generatriz superior)	1	204.00	1.30	0.25	66.30	
	Colectores dia. 500 bajo cuneta (generatriz superior)	1	42.00	1.40	0.25	14.70	
	Colectores dia. 600 bajo cuneta (generatriz superior)	1	47.00	1.50	0.25	17.63	98.63
							98.630
	APARTADO 02.1.2 ENLACES						
	SUBAPARTADO 02.1.2.1 ENLACE DA CASILLA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Cunetas CR-1	455	0.92	0.60		251.16	
	Colectores dia. 400 bajo calzada	80	1.30	1.50		156.00	
	Colectores dia. 500 bajo calzada	60	1.40	1.60		134.40	541.56
							541.560
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Colectores dia. 400 bajo calzada	80	1.30	1.20		124.80	
	Colectores dia. 500 bajo calzada	60	1.40	1.30		109.20	234.00
							234.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
400.0010	m³ HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	Cuneta CLR	370	3.05	0.10		112.85	
	Cuneta CR-1	455	1.80	0.10		81.90	194.75
							194.750
410.0021N1	ud ARQUETA DE REGISTRO PARA DRENES 0,50 x 0,50 x 1,00 m						
	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.						
	según medición auxiliar	8				8.000	8.000
							8.000
410.0024N1	ud ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL						
	ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.						
	Según medición auxiliar	4				4.000	4.000
							4.000
413.0010	m CAZ DE HORMIGÓN PREFABRICADO						
	CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.						
	Según medición auxiliar	1	90.00			90.00	90.00
							90.000
413.0010N1	m CANAL SEMICIRCULAR Ø 30 cm						
	CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.						
	Según medición auxiliar	1	205.000			205.000	205.000
							205.000
414.0040	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Según medición	1	80.00			80.00	80.00
							80.000
414.0060	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Según medición auxiliar	1	60.00			60.00	60.00
							60.000
415.0010N1	ud BOQUILLA Y ALETAS PARA TUBO Ø=40 cm						
	BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.						
	Según medición auxiliar	4				4.000	4.000
							4.000
415.0015N1	ud BOQUILLA Y ALETAS PARA TUBO Ø=50 cm						
	BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.						
	Según medición auxiliar	1				1.000	1.000
							1.000
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
	Según medición auxiliar	1	460.000			460.000	460.000
							460.000
430.0010	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
	Según medición auxiliar	95				95.00	95.00
							95.000
570.0050N1	m BORDILLO MONTABLE DE TERRAPLÉN						
	SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.						
	Según medición auxiliar	1	350.000			350.000	350.000
							350.000
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Colectores dia. 400 bajo calzada (generatriz superior)	1	80.00	1.30	0.25	26.00	
	Colectores dia. 500 bajo calzada (generatriz superior)	1	60.00	1.40	0.25	21.00	47.00
							47.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 02.1.2.2 CAMINOS						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Cunetas CR-1	64	0.92	0.60		35.33	
	Colectores dia. 600 bajo calzada	30	1.50	1.70		76.50	111.83
							111.830
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Colectores dia. 600 bajo calzada	30	1.50	1.40		63.00	63.00
							63.000
400.0010	m³ HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	Cuneta CR-1	64	1.80	0.10		11.52	11.52
							11.520
410.0024N1	ud ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL						
	ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Según medición auxiliar	2				2.000	2.000
							2.000
414.0090	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 600 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Según medición auxiliar	1	30.00			30.00	30.00
							30.000
415.0020N1	ud BOQUILLA Y ALETAS PARA TUBO Ø=60 cm						
	BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.						
	Según medición auxiliar	4				4.000	4.000
							4.000
430.0010	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
	Según medición auxiliar	1	36.00			36.00	36.00
							36.000
570.0050N1	m BORDILLO MONTABLE DE TERRAPLÉN						
	SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.						
	Según medición auxiliar	1	47.000			47.000	47.000
							47.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
400.0020N1	m CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 1 ESCALONADA						
	CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS						
	Según medición auxiliar	410				410.000	410.000
							410.000
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Colectores dia. 600 bajo calzada (generatriz superior)	1	30.00	1.50	0.25	11.25	11.25
							11.250

SUBCAPÍTULO 02.2 DRENAJE TRANSVERSAL

APARTADO 02.2.1 TRONCO

SUBAPARTADO 02.2.1.1 O.D. 1.7 TUBO Ø 1.80 P.K. 1+787,922

ELEMENTO 02.2.1.1.1 CUERPO DE OBRA O.D. 1.7

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	22.67	3.80	3.55	305.82	
		1	32.49	3.80	2.95	364.21	670.03
							670.030
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	22.67	0.60	3.55	96.57	
		2	32.49	0.60	2.95	115.01	211.58
							211.580
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
		1	55.15			55.15	55.15
							55.150
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	55.15	1.85		102.03	102.03
							102.030
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	55.15		0.99	109.20	109.20
							109.200
	ELEMENTO 02.2.1.1.2 POZO DE ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	7.25	7.55	6.40	350.32	350.32
							350.320
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	7.25	0.60	8.95	77.87	77.87
							77.870
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Solera	1	6.35	6.20	0.50	19.69	
	Muro dorsal	1	6.35	8.95	0.50	28.42	
	A deducir	-1	2.54	0.50		-1.27	
	Muro frontal	1	7.15	5.85	0.50	20.91	
	A deducir	-1	2.54	0.50		-1.27	
	Muro lateral	1	6.95	7.40	0.50	25.72	
	Muro lateral	1	3.40	7.40	0.50	12.58	
	Pantalla	1	5.35	5.00	0.40	10.70	
	Solera bajante	1	2.65	2.70	0.50	3.58	
	Frontal bajante	1	2.65	2.40	0.50	3.18	
	Resalto	1	2.05	0.50	0.30	0.31	122.55

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							122.550
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
			1.00	2.40	2.65	17.17	
			1.00	1.30	0.50	3.48	20.65
							20.650
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro dorsal	1	6.35	8.95		56.83	
	Muro frontal	1	7.15	5.85		41.83	
	Muro lateral	1	6.95	7.40		51.43	
	Muro lateral	1	3.40	7.40		25.16	
	Frontal bajante	1	2.65	2.40		6.36	181.61
							181.610
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro dorsal	1	6.35	8.95		56.83	
	Muro frontal	1	7.15	5.85		41.83	
	Muro lateral	1	6.95	7.40		51.43	
	Muro lateral	1	3.40	7.40		25.16	
	Pantalla	2	5.35	5.00		53.50	
		1	5.35	0.40		2.14	
	Frontal bajante	1	2.65	2.40		6.36	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Resalto	2	2.05	0.30		1.23	238.48
							238.480
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Solera	1	19.69	105.00		2,067.45	
	Muro dorsal	1	27.15	105.00		2,850.75	
	Muro frontal	1	19.64	105.00		2,062.20	
	Muro lateral	1	25.72	105.00		2,700.60	
	Muro lateral	1	12.58	105.00		1,320.90	
	Pantalla	1	10.70	105.00		1,123.50	
	Solera bajante	1	3.58	105.00		375.90	
	Frontal bajante	1	3.18	105.00		333.90	
	Resalto	1	0.31	105.00		32.55	12,867.75
							12,867.750
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muro dorsal	1	6.350	8.950		56.833	
	Muro frontal	1	7.150	5.850		41.828	
	Muro lateral	1	6.950	7.400		51.430	
	Muro lateral	1	3.400	7.400		25.160	
	Frontal bajante	1	2.650	2.400		6.360	181.611
							181.611
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EJECUCIÓN.						
	Muro dorsal	1	6.35	8.95		56.83	
	Muro frontal	1	7.15	5.85		41.83	
	Muro lateral	1	6.95	7.40		51.43	
	Muro lateral	1	3.40	7.40		25.16	
	Frontal bajante	1	2.65	2.40		6.36	181.61
							181.610
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		31				31.00	31.00
							31.000
411.0012N1	ud REJILLA DE FUNDICIÓN DUCTIL						
	REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.						
		2				2.00	2.00
							2.000
658.0020	m³ ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	5.00	8.46	1.00	42.30	
		1	2.20	3.00	1.00	6.60	48.90
							48.900
630.300M1	m² LOSA DE GRANITO						
	LOSA DE GRANITO						
		1	3.60	3.60		12.96	12.96
							12.960

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 02.2.1.1.3 BAJANTE ESCALONADA A LA SALIDA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	9.00	4.70	2.00	84.60	
		1	36.40	4.70	1.50	256.62	341.22
							341.220
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	9.00	0.60	2.00	21.60	
		2	36.40	0.60	1.50	65.52	
		1	36.40	3.50	1.00	127.40	214.52
							214.520
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muros	2	9.000	2.000		36.000	
		2	36.400	1.600		116.480	
	Frentes	9	3.500	0.500		15.750	168.230
							168.230
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
	Muros	2	9.00	2.00		36.00	
		2	36.40	1.60		116.48	
	Frentes	9	3.50	0.50		15.75	168.23
							168.230
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muros	2	9.00	2.00	0.30	10.80	
		2	36.40	1.60	0.30	34.94	
	Frentes	9	0.50	3.50	0.30	4.73	
	Soleras	1	9.00	3.50	0.30	9.45	
		9	4.00	3.50	0.30	37.80	
	Resaltos	9	2.90	0.30	0.30	2.35	100.07
							100.070
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	9.00	2.00		36.00	
		2	36.40	1.60		116.48	
	Frentes	9	3.50	0.50		15.75	168.23
							168.230
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	9.00	2.00		36.00	
		2	36.40	1.60		116.48	
	Frentes	9	3.50	0.50		15.75	
	Resalto	18	2.90	0.30		15.66	
		18	0.30	0.30		1.62	185.51
							185.510
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muros						
	Arm vertical exterior	2	45.00	4.10	2.47	911.43	
		2	182.00	3.70	2.47	3,326.60	
	Arm vertical interior 1	2	45.00	2.90	0.89	232.29	
		2	182.00	2.50	0.89	809.90	
	Arm vertical interior 2	2	45.00	1.20	0.89	96.12	
		2	182.00	1.20	0.89	388.75	
	Arm horizontal	4	10.00	9.30	0.89	331.08	
		4	8.00	36.70	0.89	1,045.22	
		6	1.00	9.30	0.89	49.66	
		6	1.00	36.70	0.89	195.98	
		6	1.00	0.30	0.89	1.60	
	Frentes						
	Arm vertical	9	18.00	5.30	0.89	764.15	
		1	18.00	4.30	0.89	68.89	
	Arm horizontal	9	6.00	3.80	0.89	182.63	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Soleras						
	Arm long. (inferior)	1	18.00	9.30	2.47	413.48	
		1	18.00	36.70	2.47	1,631.68	
		1	18.00	0.30	2.47	13.34	
	Arm long. (superior)	1	18.00	9.30	0.89	148.99	
		1	18.00	36.70	0.89	587.93	
		1	18.00	0.30	0.89	4.81	
	Arm trans. (inferior)	1	45.00	3.80	0.89	152.19	
		1	182.00	3.80	0.89	615.52	
	Arm trans. (superior)	1	45.00	3.80	0.89	152.19	
		1	182.00	3.80	0.89	615.52	12,739.95
							12,739.950

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

1	4.00	3.50	14.00	14.00	
					14.000

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

1	4.000	3.500	14.000		
2	4.000	1.000	8.000		
2	3.500	1.000	7.000	29.000	
					29.000

ELEMENTO 02.2.1.1.4 ARQUETA EN MEDIANA

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CA-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		1	3.70	0.40	3.24	4.80	4.80
							4.800

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

1	1.50	1.80	3.24	8.75	8.75
					8.750

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

1	1.90	2.20	3.24	13.54	13.54
					13.540

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Cuantía	100	4.80		480.00	480.00
					480.000

411.0012N1 ud REJILLA DE FUNDICIÓN DUCTIL

REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.

1				1.00	1.00
					1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 02.2.1.1.5 RECRECIDO DE ARQUETA						
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, Llosas, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		1	4.60	0.60	4.00	11.04	11.04
							11.040
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.00	2.00	4.00	16.00	16.00
							16.000
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.60	2.60	4.00	27.04	27.04
							27.040
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		100	11.04			1,104.00	1,104.00
							1,104.000
411.0012N1	ud REJILLA DE FUNDICIÓN DUCTIL						
	REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
675.0020	ud BARRA Ø20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI L<0,70 m						
	BARRA Ø 20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI I/ PERFORACIÓN, COLOCACIÓN E INYECCIÓN DE RESINA EPOXI, SEGÚN DEFINICIÓN EN PLANOS (LONGITUD < 0,70 M).						
		40				40.00	40.00
							40.000
	ELEMENTO 02.2.1.1.6 BOQUILLAS O.D. 1.7						
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Imposta	1	0.35	2.60	0.20	0.18	
	Tímpano	1	2.60	2.18	0.30	1.70	
		-1	3.14	0.81	0.30	-0.76	1.12
							1.120
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Ratrillo	1	0.30	2.40	1.00	0.72	0.72
							0.720
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Imposta	1	2.60	0.20		0.52	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Tímpano	1	2.18	2.60		5.67	6.19
							6.190
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Imposta	1	2.60	0.20		0.52	
	Tímpano	1	2.18	2.60		5.67	6.19
							6.190
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Imposta						
	Ø 12	8	2.60	0.89		18.51	
	Ø 12	13	1.40	0.89		16.20	
	Tímpano						
	Ø 12	2	5.00	0.89	3.18	28.30	
	Ø 12	1	5.65	0.89		5.03	
	Ø 12	8	2.60	0.89		18.51	86.55
							86.550
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	3.90	4.00	1.00	15.60	15.60
							15.600
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	3.900	6.000		23.400	23.400
							23.400
	SUBAPARTADO 02.2.1.2 O.D. 2.0 MARCO 4,00 X 2,50 P.K. 2+072,043						
	ELEMENTO 02.2.1.2.1 CUERPO DE OBRA O.D. 2.0						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	22.74	6.20	6.70	944.62	
		1	22.82	6.20	4.85	686.20	1,630.82
							1,630.820
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	22.74	0.60	6.70	182.83	
		2	22.82	0.60	4.85	132.81	315.64
							315.640
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	45.570		10.600	483.042	483.042
							483.042
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	45.57		10.60	483.04	483.04
							483.040
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		2	45.57	0.30	2.50	68.36	
		1	45.57	4.60	0.30	62.89	131.25
							131.250
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	45.57	5.00	0.30	68.36	68.36
							68.360
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
		1	45.57	5.00	0.10	22.79	22.79
							22.790
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	45.57	2.50		227.85	
		1	45.57	4.00		182.28	410.13
							410.130
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	45.57	2.80		255.19	
		2	45.57	0.40		36.46	291.65
							291.650
696.0120N1	m² PLANCHA POREXPAN E= 0,5 cm						
	PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.						
		4	4.380			17.520	
		2	4.380			8.760	26.280
							26.280
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		2	45.570			91.140	91.140
							91.140
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	45.57	0.50	0.20	4.56	4.56
							4.560
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	TS1 Ø 16	457	5.20	1.58		3,754.71	
	TS2 Ø 12	457	7.80	0.89		3,172.49	
	TD1 Ø 16	457	5.20	1.58		3,754.71	
	TH1 + TS4 Ø 12	458	4.55	0.89		1,854.67	
	TD2 Ø 16	457	10.20	1.58		7,365.01	
	LS1 + LS2 Ø 12	42	45.57	0.89		1,703.41	
	LH1 + LH2 Ø 12	56	45.57	0.89		2,271.21	
	LD1 + LD2 Ø 12	38	45.57	0.89		1,541.18	
	LS3 Ø 12	6	45.57	0.89		243.34	
	LD3 Ø 12	6	45.57	0.89		243.34	
	TS3 Ø 8	3,864	0.45	0.39		678.13	
	TD3 Ø 8	3,864	0.45	0.39		678.13	27,260.33
							27,260.330
660.0010	m² ENCACHADO DE PIEDRA						
	ENCACHADO DE PIEDRA EJECUTADO MEDIANTE PIEDRA DE CANTERA PARA ENCACHADO , HORMIGÓN C20/25 Y MORTERO DE CEMENTO PORTLAND MCP-5 DE DOSIFICACIÓN 1:4 SIN INCLUIR ARMADURAS						
	En solera de marco	1	45.57	4.00		182.28	182.28
							182.280

ELEMENTO 02.2.1.2.2 BOQUILLAS O.D. 2.0

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Zapatas aletas	1	4.20	3.65	0.50	7.67	
	Excavación salida OD	1	18.00	8.50	4.40	673.20	
	Salida cuneta lateral	1	30.00	8.00	4.00	960.00	1,640.87
							1,640.870
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Aletas	1	2.10	0.60	0.50	0.63	
		1	2.10	0.60	0.50	0.63	
	Mota de protección	1	18.50	2.20	0.80	32.56	33.82
							33.820
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	2.100		1.950	4.095	
		1	2.100		1.950	4.095	8.190
							8.190
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	2.10		1.95	4.10	
		1	2.10		1.95	4.10	8.20
							8.200
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	2.100			2.100	
		1	2.100			2.100	4.200
							4.200
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGON C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	2.10	0.40	2.75	2.31	
	A-4	1	2.10	0.40	2.75	2.31	
	Imposta	2	0.35	4.60	0.20	0.64	
		2	0.30	4.60	0.20	0.55	5.81
							5.810
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	2.10	3.05	0.40	2.56	
	A-4	1	2.10	3.05	0.40	2.56	5.12
							5.120
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3	1	2.10	3.05	0.10	0.64	
	A-4	1	2.10	3.05	0.10	0.64	1.28
							1.280
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Rastrillo	1	0.30	1.00	1.00	0.30	
		1	0.30	4.85	1.00	1.46	1.76
							1.760
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.10		2.75	5.78	
	A-4	1	2.10		2.75	5.78	
	Imposta	2		4.60	0.40	3.68	
	CIMIENTOS	2	4.20		0.50	4.20	19.44
							19.440
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.10		2.75	5.78	
	A-4	1	2.10		2.75	5.78	
	Imposta	2		4.60	0.40	3.68	15.24
							15.240
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-3						
	Ø 12	16	2.10	0.89		29.90	
	Ø 12	16	2.10	0.89		29.90	
	Ø 16	14	3.45	1.58		76.31	
	Ø 12	11	3.45	0.89		33.78	
	Ø 12	14	0.60	0.89		7.48	
	Ø 12	7	0.60	0.89		3.74	
	Ø 12	2	2.10	0.89		3.74	
	A-4						
	Ø 12	16	2.10	0.89		29.90	
	Ø 12	16	2.10	0.89		29.90	
	Ø 16	14	3.45	1.58		76.31	
	Ø 12	11	3.45	0.89		33.78	
	Ø 12	14	0.60	0.89		7.48	
	Ø 12	7	0.60	0.89		3.74	
	Ø 12	2	2.10	0.89		3.74	
	ALZADOS						
	A-3						
	Ø 12	14	2.15	0.89		26.79	
	Ø 12	7	2.15	0.89		13.39	
	Ø 12	12	2.10	0.89		22.43	
	Ø 12	12	2.10	0.89		22.43	
	A-4						
	Ø 12	14	2.15	0.89		26.79	
	Ø 12	7	2.15	0.89		13.39	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	12	2.10	0.89		22.43	
	Ø 12	12	2.10	0.89		22.43	
	IMPOSTAS						
	Ø 12	16	4.60	0.89		65.50	
	Ø 12	46	1.40	0.89		57.32	662.60
							662.600
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
	Mota de prottección	1	18.50	1.20		22.20	
	Cuenco entre Ods	1	18.00	10.85		195.30	217.50
							217.500
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
	Mota de prottección	1	18.500	5.650		104.525	
	Cuenco entre Ods	1	18.000	18.850		339.300	
		2	18.000	1.000		36.000	
		2	10.850	1.000		21.700	501.525
							501.525
	ELEMENTO 02.2.1.2.3 POZO DE ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	7.80	13.40	6.40	668.93	668.93
							668.930
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	7.80	0.60	8.95	83.77	83.77
							83.770
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Solera	1	11.20	6.80	0.50	38.08	
	Muro dorsal	1	11.20	8.75	0.50	49.00	
	A deducir	-1	2.54	0.50		-1.27	
	Muro frontal	1	11.90	7.95	0.50	47.30	
	A deducir	-1	4.60	3.10		-14.26	
	Muro lateral	1	7.60	8.35	0.50	31.73	
	Muro lateral	1	4.60	8.35	0.50	19.21	
	Pantalla	1	10.20	6.20	0.40	25.30	
	Solera bajante	1	3.60	2.40	0.50	4.32	
		1	3.60	3.60	0.50	6.48	
	Frontal bajante	1	3.60	1.70	0.50	3.06	
		1	3.60	2.20	0.50	3.96	
	Resalto	2	3.00	0.30	0.50	0.90	213.81
							213.810
610.0020	m³ HORMIGÓN C20/25						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	1	2.4	2.65	2.70		17.17	
	1	1.3	0.50	5.35		3.48	20.65
							20.650
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro dorsal	1	11.20	8.75		98.00	
	Muro frontal	1	11.90	7.95		94.61	
	Muro lateral	1	7.60	8.35		63.46	
	Muro lateral	1	4.60	8.35		38.41	
	Frontal bajante	1	3.60	1.70		6.12	
		1	3.60	2.20		7.92	308.52
							308.520
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro dorsal	1	11.20	6.80		76.16	
	Muro frontal	1	11.90	7.95		94.61	
	Muro lateral	1	7.60	8.35		63.46	
	Muro lateral	1	4.60	8.35		38.41	
	Pantalla	2	10.20	6.20		126.48	
		1	10.20	0.40		4.08	
	Frontal bajante	1	3.60	1.70		6.12	
		1	3.60	2.20		7.92	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Resalto	4	3.00	0.30		3.60	
		4	0.30	0.50		0.60	421.44
							421.440

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Solera	1	38.08	105.00	3,998.40	
Muro dorsal	1	47.73	105.00	5,011.65	
Muro frontal	1	33.04	105.00	3,469.20	
Muro lateral	1	31.73	105.00	3,331.65	
Muro lateral	1	19.21	105.00	2,017.05	
Pantalla	1	25.30	105.00	2,656.50	
Solera bajante	1	4.32	105.00	453.60	
	1	6.48	105.00	680.40	
Frontal bajante	1	3.06	105.00	321.30	
	2	3.96	105.00	831.60	
Resalto	1	0.90	105.00	94.50	22,865.85
					22,865.850

696.0010N1 m² FORRO DRENANTE POLIAMIDA

FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.

Muro dorsal	1	11.200	8.750	98.000	
Muro frontal	1	11.900	7.950	94.605	
Muro lateral	1	7.600	8.350	63.460	
Muro lateral	1	4.600	8.350	38.410	
Frontal bajante	1	3.600	1.700	6.120	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.600	2.200		7.920	308.515
							308.515

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

Muro dorsal	1	11.20	8.75	98.00	
Muro frontal	1	11.90	7.95	94.61	
Muro lateral	1	7.60	8.35	63.46	
Muro lateral	1	4.60	8.35	38.41	
Frontal bajante	1	3.60	1.70	6.12	
	1	3.60	2.20	7.92	308.52
					308.520

418.0010 ud PATE DE ACERO REVESTIDO CON POLIPROPILENO

PATE DE ACERO REVESTIDO CON POLIPROPILENO

28			28.00	28.00
				28.000

411.0012N1 ud REJILLA DE FUNDICIÓN DUCTIL

REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.

2			2.00	2.00
				2.000

ELEMENTO 02.2.1.2.4 LOSA DE TRANSICIÓN

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø10	2	228.00	5.60	0.62	1,583.23	
	Ø20	2	228.00	5.60	2.47	6,307.39	
	Ø10	2	25.00	45.57	0.62	1,412.67	
	Ø10	2	25.00	45.57	0.62	1,412.67	
	Ø12	2	228.00	1.88	0.89	762.98	
	Ø20	2	46.00	1.05	2.47	238.60	
	Ø12	2	4.00	45.57	0.89	324.46	12,042.00
							12,042.000

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

2	45.57	0.10	4.70	42.84	42.84	
						42.840

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

2	45.57	5.00	0.30	136.71	
2	45.57	0.30	0.30	8.20	
2	45.57	0.30	0.15	4.10	149.01
					149.010

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

2	5.00	0.30		3.00	
2	45.57	0.30		27.34	
2	45.57	0.30		27.34	57.68

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							57.680

SUBAPARTADO 02.2.1.3 O.D. 2.3 TUBO Ø 1.80 P.K. 2+345,454

ELEMENTO 02.2.1.3.1 CUERPO DE OBRA O.D. 2.3

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

1	43.85	1.85		81.12	81.12
					81.120

414.0240 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

1	43.85			43.85	43.85
					43.850

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

2	43.85	0.99		86.82	86.82
					86.820

ELEMENTO 02.2.1.3.2 BOQUILLAS O.D. 2.3

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	8.46	5.50	1.20	55.84	
		1	3.00	2.50	1.00	7.50	63.34
							63.340
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.25	0.60	0.50	0.98	
		1	3.40	0.60	0.50	1.02	
		1	3.25	0.60	0.50	0.98	
		1	3.25	0.60	0.50	0.98	3.96
							3.960
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.250	1.840	5.980		
		1	3.400	1.840	6.256		
		1	3.250	1.840	5.980		
		1	3.250	1.840	5.980	24.196	
							24.196
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.25	1.39	4.52		
		1	3.40	1.39	4.73		

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.25		1.39	4.52	
		1	3.25		1.39	4.52	18.29
							18.290
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-1	1	3.25	3.05	0.40	3.97	
	A-2	1	3.40	3.05	0.40	4.15	
	A-3	1	3.25	3.05	0.40	3.97	
	A-4	1	3.25	3.05	0.40	3.97	16.06
							16.060
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-1	1	3.25	0.40	1.39	1.81	
	A-2	1	3.40	0.40	1.39	1.89	
	A-3	1	3.25	0.40	1.39	1.81	
	A-4	1	3.25	0.40	1.39	1.81	
	Imposta	2	0.35	2.60	0.20	0.36	
	Timpano	2	2.60	2.18	0.30	3.40	11.08
							11.080
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-1	1	3.25	3.05	0.10	0.99	
	A-2	1	3.40	3.05	0.10	1.04	
	A-3	1	3.25	3.05	0.10	0.99	
	A-4	1	3.25	3.05	0.10	0.99	4.01

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.010
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.25		2.19	7.12	
	A-2	1	3.40		2.19	7.45	
	A-3	1	3.25		2.19	7.12	
	A-4	1	3.25		2.19	7.12	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.18	2.60	11.34	41.19
							41.190
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.25		1.39	4.52	
	A-2	1	3.40		1.39	4.73	
	A-3	1	3.25		1.39	4.52	
	A-4	1	3.25		1.39	4.52	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.18	2.60	11.34	30.67
							30.670
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.250			3.250	
		1	3.400			3.400	
		1	3.250			3.250	
		1	3.250			3.250	13.150
							13.150
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	7.26	0.20		1.45	
		1	5.08	0.20		1.02	
	Rastrillo	1	0.30	5.00	1.00	1.50	3.97
							3.970
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	16	3.25	0.89			46.28
	Ø 12	16	3.25	0.89			46.28
	Ø 16	22	3.65	1.58			126.87
	Ø 12	22	3.65	0.89			71.47
	Ø 12	22	1.40	0.89			27.41
	Ø 12	11	1.20	0.89			11.75
	Ø 12	3	3.65	0.89			9.75
	Ø 12	3	3.65	0.89			9.75
	Ø 12	3	3.65	0.89			9.75
	A-2						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	16	3.40	0.89		48.42	
	Ø 12	16	3.40	0.89		48.42	
	Ø 16	23	3.65	1.58		132.64	
	Ø 12	23	3.65	0.89		74.72	
	Ø 12	23	1.40	0.89		28.66	
	Ø 12	12	1.20	0.89		12.82	
	Ø 12	3	3.80	0.89		10.15	
	Ø 12	3	3.80	0.89		10.15	
	Ø 12	3	3.80	0.89		10.15	
	A-3						
	Ø 12	16	3.25	0.89		46.28	
	Ø 12	16	3.25	0.89		46.28	
	Ø 16	22	3.65	1.58		126.87	
	Ø 12	22	3.65	0.89		71.47	
	Ø 12	22	1.40	0.89		27.41	
	Ø 12	11	1.20	0.89		11.75	
	Ø 12	3	3.65	0.89		9.75	
	Ø 12	3	3.65	0.89		9.75	
	Ø 12	3	3.65	0.89		9.75	
	A-4						
	Ø 12	16	3.25	0.89		46.28	
	Ø 12	16	3.25	0.89		46.28	
	Ø 16	22	3.65	1.58		126.87	
	Ø 12	22	3.65	0.89		71.47	
	Ø 12	22	1.40	0.89		27.41	
	Ø 12	11	1.20	0.89		11.75	
	Ø 12	3	3.65	0.89		9.75	
	Ø 12	3	3.65	0.89		9.75	
	Ø 12	3	3.65	0.89		9.75	
	MUROS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-1						
	Ø 12	11	1.79	0.89		17.52	
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	10	3.25	0.89		28.93	
	Ø 12	10	3.25	0.89		28.93	
	A-2						
	Ø 12	12	1.79	0.89		19.12	
	Ø 12	23	1.79	0.89		36.64	
	Ø 12	10	3.40	0.89		30.26	
	Ø 12	10	3.40	0.89		30.26	
	A-3						
	Ø 12	11	1.79	0.89		17.52	
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	10	3.25	0.89		28.93	
	Ø 12	10	3.25	0.89		28.93	
	A-4						
	Ø 12	11	1.79	0.89		17.52	
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	10	3.25	0.89		28.93	
	Ø 12	10	3.25	0.89		28.93	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	3.18	56.60	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	2,074.73
							2,074.730

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	5.00	8.46	1.00	42.30	
		1	2.20	3.00	1.00	6.60	48.90
							48.900
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	5.000	10.460		52.300	
							52.300
							52.300
	ELEMENTO 02.2.1.3.3 BAJANTE ESCALONADA A LA SALIDA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	13.20	3.20	1.80	76.03	
		1	1.50	3.20	1.30	6.24	82.27
							82.270
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	13.20	0.60	1.80	28.51	
		1	13.20	2.00	1.30	34.32	
		2	1.50	0.60	1.30	2.34	65.17
							65.170
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muros	2	13.200	1.800		47.520	
		2	1.500	1.300		3.900	
	Frentes	6	2.000	1.400		16.800	
		1	2.000	1.000		2.000	70.220
							70.220
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
	Muros	2	13.20	1.80		47.52	
		2	1.50	1.30		3.90	
	Frentes	6	2.00	1.40		16.80	
		1	2.00	1.00		2.00	70.22
							70.220
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muros	2	13.20	1.80	0.30	14.26	
		2	1.50	1.30	0.30	1.17	
	Frentes	6	1.40	2.00	0.30	5.04	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	1.00	2.00	0.30	0.60	
	Soleras	6	1.90	2.00	0.30	6.84	
		1	1.50	2.00	0.30	0.90	
	Resaltos	6	1.40	0.30	0.30	0.76	29.57
							29.570

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Muros	2	13.20	1.80	47.52		
	2	1.50	1.30	3.90		
Frentes	6	2.00	1.40	16.80		
	1	2.00	1.00	2.00		70.22
						70.220

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Muros	2	13.20	1.80	47.52		
	2	1.50	1.30	3.90		
Frentes	6	2.00	1.40	16.80		
	1	2.00	1.00	2.00		
Resalto	12	1.40	0.30	5.04		
	12	0.30	0.30	1.08		76.34
						76.340

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Muros						
Arm vertical exterior	2			2.47	4.94	
	2	66.00	1.80	2.47	586.87	
	2	8.00	1.30	2.47	51.38	
Arm vertical interior 1	2			0.89	1.78	
	2	66.00	1.80	0.89	211.46	
	2	8.00	1.30	0.89	18.51	
Arm vertical interior 2	2		1.20	0.89	2.14	
	2	66.00	1.20	0.89	140.98	
	2	8.00	1.20	0.89	17.09	
Arm horizontal	4		0.30	0.89	1.07	
	4	9.00	13.50	0.89	432.54	
	4	7.00	1.80	0.89	44.86	
	6	1.00	0.30	0.89	1.60	
	6	1.00	13.50	0.89	72.09	
	6	1.00	1.80	0.89	9.61	
Frentes						
Arm vertical	6	10.00	6.70	0.89	357.78	
	1	10.00	5.90	0.89	52.51	
Arm horizontal	6	14.00	2.30	0.89	171.95	
	1	10.00	2.30	0.89	20.47	
Soleras						
Arm long. (inferior)	1	10.00	0.30	1.58	4.74	
	1	10.00	13.50	1.58	213.30	
	1	10.00	1.80	1.58	28.44	
Arm long. (superior)	1	10.00	0.30	0.89	2.67	
	1	10.00	13.50	0.89	120.15	
	1	10.00	1.80	0.89	16.02	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Arm trans. (inferior)	1		2.30	2.47	5.68	
		1	66.00	2.30	2.47	374.95	
		1	8.00	2.30	2.47	45.45	
	Arm trans. (superior)	1		2.30	0.89	2.05	
		1	66.00	2.30	0.89	135.10	
		1	8.00	2.30	0.89	16.38	3,164.56
							3,164.560

SUBAPARTADO 02.2.1.4 O.D. 2.6 MARCO 2,00 X 2,00 P.K. 2+602,924

ELEMENTO 02.2.1.4.1 CUERPO DE OBRA O.D. 2.6

696.0010N1 m² FORRO DRENANTE POLIAMIDA

FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.

1	44.900		8.000	359.200	359.200
					359.200

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

1	44.90		8.00	359.20	359.20
					359.200

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

1	44.90	3.20	0.40	57.47	57.47
					57.470

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	44.90	0.40	2.00	71.84	
		1	44.90	2.80	0.40	50.29	122.13
							122.130

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

1	44.90	3.20	0.10	14.37	14.37
					14.370

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

2	44.90	2.40		215.52	
2	44.90	0.50		44.90	260.42
					260.420

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

2	44.90	2.00		179.60	
1	44.90	2.00		89.80	269.40
					269.400

696.0120N1 m² PLANCHA POREXPAN E= 0,5 cm

PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.

4	4.000			16.000	
2	4.000			8.000	24.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							24.000
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEO-TEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		2	44.900			89.800	89.800
							89.800
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE CO-LOCADO.						
		1	44.90	0.50	0.20	4.49	4.49
							4.490
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCA-DO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-BRE RECOCIDO Y SEPARADORES.						
	Ø 16	301	5.90	1.58		2,805.92	
	Ø 16	301	6.40	1.58		3,043.71	
	Ø 16	301	3.60	1.58		1,712.09	
	Ø 12	452	4.45	0.89		1,790.15	
	Ø 16	301	7.60	1.58		3,614.41	
	Ø 10	46	44.90	0.62		1,280.55	
	Ø 12	60	44.90	0.89		2,397.66	
	Ø 10	34	44.90	0.62		946.49	
	Ø 10	8	44.90	0.62		222.70	
	Ø 10	8	44.90	0.62		222.70	
	Ø 8	1,208	0.55	0.39		259.12	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 8	3,311	0.55	0.39		710.21	19,005.71
							19,005.710
	ELEMENTO 02.2.1.4.2 BOQUILLAS O.D. 2.6						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANS-PORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	7.40	3.65	0.50	13.51	
		1	4.90	3.65	0.50	8.94	
		1	7.00	5.00	1.00	35.00	57.45
							57.450
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALU-DES (EN SU CASO).						
		1	3.70	0.60	0.50	1.11	
		1	3.70	0.60	0.50	1.11	
		1	2.45	0.60	0.50	0.74	
		1	2.45	0.60	0.50	0.74	3.70
							3.700
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.700		1.850	6.845	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.700		1.850	6.845	
		1	2.450		1.850	4.533	
		1	2.450		1.850	4.533	22.756
							22.756

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

	1	3.70		1.85	6.85	
	1	3.70		1.85	6.85	
	1	2.45		1.85	4.53	
	1	2.45		1.85	4.53	22.76
						22.760

424.0028N1 m TUBO DE PVC RANURADO DE DIAMETRO 200 mm

TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.

	1	3.700			3.700	
	1	3.700			3.700	
	1	2.450			2.450	
	1	2.450			2.450	12.300
						12.300

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

A-1	1	3.70	3.05	0.10	1.13		
A-2	1	3.70	3.05	0.10	1.13		

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3	1	2.45	3.05	0.10	0.75	
	A-4	1	2.45	3.05	0.10	0.75	3.76
							3.760

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

A-1	1	3.70	0.40	1.55	2.29		
A-2	1	3.70	0.40	1.55	2.29		
A-3	1	2.45	0.40	1.55	1.52		
A-4	1	2.45	0.40	1.55	1.52		
Imposta	2	0.35	2.80	0.20	0.39		
	2	0.30	2.80	0.20	0.34	8.35	
							8.350

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

A-1	1	3.70	3.05	0.40	4.51		
A-2	1	3.70	3.05	0.40	4.51		
A-3	1	2.45	3.05	0.40	2.99		
A-4	1	2.45	3.05	0.40	2.99	15.00	
							15.000

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

Rastrillo	1	0.30	6.00	1.00	1.80		
Solera	1	10.00	0.20		2.00		
	1	4.90	0.20		0.98	4.78	
							4.780

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.70		1.55	5.74	
	A-2	1	3.70		1.55	5.74	
	A-3	1	2.45		1.55	3.80	
	A-4	1	2.45		1.55	3.80	
	Imposta	2		2.80	0.40	2.24	
	CIMIENTOS	2	7.40		0.50	7.40	
		2	4.90		0.50	4.90	33.62
							33.620
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.70		1.55	5.74	
	A-2	1	3.70		1.55	5.74	
	A-3	1	2.45		1.55	3.80	
	A-4	1	2.45		1.55	3.80	
	Imposta	2		2.80	0.40	2.24	21.32
							21.320
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	11.250	8.500		95.625	
		1	3.750	5.500		20.625	116.250

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							116.250
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	16	3.70	0.89			52.69
	Ø 12	16	3.70	0.89			52.69
	Ø 16	25	3.45	1.58			136.28
	Ø 12	25	3.45	0.89			76.76
	Ø 12	13	1.10	0.89			12.73
	Ø 12	2	3.70	0.89			6.59
	A-2						
	Ø 12	16	3.70	0.89			52.69
	Ø 12	16	3.70	0.89			52.69
	Ø 16	25	3.45	1.58			136.28
	Ø 12	25	3.45	0.89			76.76
	Ø 12	13	1.10	0.89			12.73
	Ø 12	13	1.10	0.89			12.73
	Ø 12	2	3.70	0.89			6.59
	A-3						
	Ø 12	16	2.45	0.89			34.89
	Ø 12	16	2.45	0.89			34.89
	Ø 16	17	3.45	1.58			92.67
	Ø 12	17	3.45	0.89			52.20
	Ø 12	9	1.10	0.89			8.81

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	9	1.10	0.89		8.81	
	Ø 12	2	2.45	0.89		4.36	
	A-4						
	Ø 12	16	2.45	0.89		34.89	
	Ø 12	16	2.45	0.89		34.89	
	Ø 16	17	3.45	1.58		92.67	
	Ø 12	17	3.45	0.89		52.20	
	Ø 12	9	1.10	0.89		8.81	
	Ø 12	9	1.10	0.89		8.81	
	Ø 12	2	2.45	0.89		4.36	
	ALZADOS						
	A-1						
	Ø 12	25	1.95	0.89		43.39	
	Ø 12	13	1.95	0.89		22.56	
	Ø 12	11	3.70	0.89		36.22	
	Ø 12	11	3.70	0.89		36.22	
	A-2						
	Ø 12	25	1.95	0.89		43.39	
	Ø 12	13	1.95	0.89		22.56	
	Ø 12	11	3.70	0.89		36.22	
	Ø 12	11	3.70	0.89		36.22	
	A-3						
	Ø 12	17	1.95	0.89		29.50	
	Ø 12	9	1.95	0.89		15.62	
	Ø 12	11	2.45	0.89		23.99	
	Ø 12	11	2.45	0.89		23.99	
	A-4						
	Ø 12	17	1.95	0.89		29.50	
	Ø 12	9	1.95	0.89		15.62	
	Ø 12	11	2.45	0.89		23.99	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	11	2.45	0.89		23.99	
	IMPOSTA						
	Ø 12	16	2.80	0.89		39.87	
	Ø 12	28	1.40	0.89		34.89	1,711.94
							1,711.940
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	9.25	6.50	1.00	60.13	
		1	1.75	3.50	1.00	6.13	66.26
							66.260
	ELEMENTO 02.2.1.4.3 BAJANTE ESCALONADA A LA SALIDA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	14.70	3.20	1.80	84.67	
		1	2.60	3.20	1.70	14.14	98.81
							98.810
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	14.70	0.60	1.80	31.75	
		1	14.70	2.00	1.30	38.22	
		2	2.60	0.60	1.70	5.30	75.27
							75.270

696.0010N1 m² FORRO DRENANTE POLIAMIDA

FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.

Muros	2	14.700	1.500		44.100	
	2	2.600	1.700		8.840	
Frentes	7	2.000	1.400		19.600	
	1	2.000	1.300		2.600	75.140
						75.140

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

Muros	2	14.70	1.50		44.10	
	2	2.60	1.70		8.84	
Frentes	7	2.00	1.40		19.60	
	1	2.00	1.30		2.60	75.14
						75.140

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

Muros	2	14.70	1.50	0.30	13.23	
	2	2.60	1.70	0.30	2.65	
Frentes	7	1.40	2.00	0.30	5.88	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	1.30	2.00	0.30	0.78	
	Soleras	7	1.80	2.00	0.30	7.56	
		1	2.60	2.00	0.30	1.56	
	Resaltos	7	1.40	0.30	0.30	0.88	32.54
							32.540

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Muros	2	14.70	1.50		44.10	
	2	2.60	1.70		8.84	
Frentes	7	2.00	1.40		19.60	
	1	2.00	1.30		2.60	75.14
						75.140

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Muros	2	14.70	1.50		44.10	
	2	2.60	1.70		8.84	
Frentes	7	2.00	1.40		19.60	
	1	2.00	1.30		2.60	
Resalto	14	1.40	0.30		5.88	
	14	0.30	0.30		1.26	82.28
						82.280

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-BRE RECOCIDO Y SEPARADORES.						
	Muros						
	Arm vertical exterior						
		2	74.00	1.50	2.47	548.34	
		2	13.00	1.70	2.47	109.17	
	Arm vertical interior 1						
		2	74.00	1.50	0.89	197.58	
		2	13.00	1.70	0.89	39.34	
	Arm vertical interior 2						
		2	74.00	1.20	0.89	158.06	
		2	13.00	1.20	0.89	27.77	
	Arm horizontal						
		4	8.00	15.00	0.89	427.20	
		4	9.00	2.90	0.89	92.92	
		6	1.00	0.30	0.89	1.60	
		6	1.00	15.00	0.89	80.10	
		6	1.00	2.90	0.89	15.49	
	Frentes						
	Arm vertical	7	10.00	6.70	0.89	417.41	
		1	10.00	6.50	0.89	57.85	
	Arm horizontal	7	14.00	2.30	0.89	200.61	
		1	14.00	2.30	0.89	28.66	
	Soleras						
	Arm long. (inferior)	1	10.00	0.30	1.58	4.74	
		1	10.00	15.00	1.58	237.00	
		1	10.00	2.90	1.58	45.82	
	Arm long. (superior)	1	10.00	0.30	0.89	2.67	
		1	10.00	15.00	0.89	133.50	
		1	10.00	2.90	0.89	25.81	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Arm trans. (inferior)						
		1	74.00	2.30	2.47	420.39	
		1	13.00	2.30	2.47	73.85	
	Arm trans. (superior)						
		1	74.00	2.30	0.89	151.48	
		1	13.00	2.30	0.89	26.61	3,523.97
							3,523.970

SUBAPARTADO 02.2.1.5 O.D. 3.1 TUBO Ø 1.80 P.K. 3+182,167

ELEMENTO 02.2.1.5.1 CUERPO DE OBRA O.D. 3.1

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANS-PORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

		1	17.69	3.80	4.50	302.50	
		1	6.00	3.80	1.30	29.64	332.14
							332.140

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALU-DES (EN SU CASO).

		2	17.69	0.60	4.50	95.53	
		2	6.00	0.60	1.30	9.36	104.89
							104.890

414.0240 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMI-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	GÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
		1	35.55			35.55	35.55
							35.550
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	35.55	1.85		65.77	65.77
							65.770
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	35.55		0.99	70.39	70.39
							70.390
	ELEMENTO 02.2.1.5.2 POZO DE ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.10	4.01	6.70	56.42	56.42
							56.420
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	2.10	0.60	3.45	8.69	8.69
							8.690
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		1	2.10	2.81	0.30	1.77	
		1	0.30	2.81	0.32	0.27	
		1	0.30	2.81	2.32	1.96	
		1	0.30	2.81	1.18	0.99	
		2	1.50	0.30	3.45	3.11	8.10
							8.100
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	0.38	0.50	2.21	0.42	0.42
							0.420
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.81	0.62	1.74	
		1		2.81	2.62	7.36	
		1		2.81	1.18	3.32	
		2		2.10	3.75	15.75	28.17

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							28.170
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.21	0.32	0.71	
		1		2.21	2.32	5.13	
		1		2.21	1.18	2.61	
		2		1.50	3.45	10.35	18.80
							18.800
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		10	3.01	0.89		26.79	
		19	2.14	0.89		36.19	
		14	4.21	0.89		52.46	
		19	3.34	0.89		56.48	
		6	2.81	0.89		15.01	
		32	2.81	0.89		80.03	
		38	2.62	0.89		88.61	
		16	2.81	0.89		40.01	
		19	3.26	0.89		55.13	
		92	1.50	0.89		122.82	
		40	3.75	0.89		133.50	707.03
							707.030
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		13				13.00	13.00
							13.000
	ELEMENTO 02.2.1.5.3 BOQUILLAS O.D. 3.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	3.00	2.40	1.00	7.20	7.20
							7.200
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.00	0.60	0.50	0.90	
		1	3.00	0.60	0.50	0.90	1.80
							1.800
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.000		1.650	4.950	
		1	3.000		1.650	4.950	9.900
							9.900
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.00		1.20	3.60	
		1	3.00		1.20	3.60	7.20
							7.200
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	3.000			3.000	
		1	3.000			3.000	6.000
							6.000
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-3	1	3.00	3.05	0.10	0.92	
	A-4	1	3.00	3.05	0.10	0.92	1.84
							1.840
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	3.00	0.40	1.20	1.44	
	A-4	1	3.00	0.40	1.20	1.44	
	Imposta	1	0.35	2.60	0.20	0.18	
	Timpano	1	2.18	2.60	0.30	1.70	4.76

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.760
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	3.00	3.05	0.40	3.66	
	A-4	1	3.00	3.05	0.40	3.66	7.32
							7.320
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	5.27	0.20		1.05	
	Rastrillo	1	0.30	2.40	1.00	0.72	1.77
							1.770
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		2.00	6.00	
	A-4	1	3.00		2.00	6.00	
	Imposta	1		2.60	0.20	0.52	
	Timpano	1		2.18	2.60	5.67	18.19
							18.190
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		1.20	3.60	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-4	1	3.00		1.20	3.60	
	Imposta	1		2.60	0.20	0.52	
	Timpano	1		2.18	2.60	5.67	13.39
							13.390

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

CIMIENTOS						
A-3						
Ø 12	16	3.00	0.89		42.72	
Ø 12	16	3.00	0.89		42.72	
Ø 16	20	3.65	1.58		115.34	
Ø 12	20	3.65	0.89		64.97	
Ø 12	20	1.40	0.89		24.92	
Ø 12	10	1.20	0.89		10.68	
Ø 12	3	3.40	0.89		9.08	
Ø 12	3	3.40	0.89		9.08	
Ø 12	3	3.40	0.89		9.08	
A-4						
Ø 12	16	3.00	0.89		42.72	
Ø 12	16	3.00	0.89		42.72	
Ø 16	20	3.65	1.58		115.34	
Ø 12	20	3.65	0.89		64.97	
Ø 12	20	1.40	0.89		24.92	
Ø 12	10	1.20	0.89		10.68	
Ø 12	3	3.40	0.89		9.08	
Ø 12	3	3.40	0.89		9.08	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	3	3.40	0.89		9.08	
	MUROS						
	A-3						
	Ø 12	10	1.60	0.89		14.24	
	Ø 12	20	1.60	0.89		28.48	
	Ø 12	8	3.00	0.89		21.36	
	Ø 12	8	3.00	0.89		21.36	
	A-4						
	Ø 12	10	1.60	0.89		14.24	
	Ø 12	20	1.60	0.89		28.48	
	Ø 12	8	3.00	0.89		21.36	
	Ø 12	8	3.00	0.89		21.36	
	IMPOSTA						
	Ø 12	8	2.60	0.89		18.51	
	Ø 12	13	1.40	0.89		16.20	
	TIMPANO						
	Ø 12	2	5.00	0.89	3.18	28.30	
		1	5.65	0.89		5.03	
		8	2.60	0.89		18.51	914.61
							914.610

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

	1	2.20	3.00	1.00	6.60	6.60
						6.600

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	2.400	5.000		12.000	12.000
							12.000
	ELEMENTO 02.2.1.5.4 BAJANTE ESCALONADA A LA ENTREDA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	5.20	3.20	4.00	66.56	
		1	2.60	3.20	3.00	24.96	91.52
							91.520
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	5.20	0.60	4.00	24.96	
		1	5.20	2.00	2.80	29.12	
		2	2.60	0.60	3.00	9.36	63.44
							63.440
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muros	2	5.200	3.000		31.200	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	2.600	3.000		15.600	
	Frentes	2	2.000	2.400		9.600	
		1	2.000	2.400		4.800	61.200
							61.200
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
	Muros	2	5.20	3.00		31.20	
		2	2.60	3.00		15.60	
	Frentes	2	2.00	2.40		9.60	
		1	2.00	2.40		4.80	61.20
							61.200
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muros	2	5.20	3.00	0.30	9.36	
		2	2.60	3.00	0.30	4.68	
	Frentes	2	2.40	2.00	0.30	2.88	
		1	2.40	2.00	0.30	1.44	
	Soleras	2	2.30	2.00	0.30	2.76	
		1	2.60	2.00	0.30	1.56	
	Resaltos	2	1.40	0.30	0.30	0.25	22.93
							22.930
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Muros	2	5.20	3.00		31.20	
		2	2.60	3.00		15.60	
	Frentes	2	2.00	2.40		9.60	
		1	2.00	2.40		4.80	61.20
							61.200

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Muros	2	5.20	3.00		31.20	
		2	2.60	3.00		15.60	
	Frentes	2	2.00	2.40		9.60	
		1	2.00	2.40		4.80	
	Resalto	4	1.40	0.30		1.68	
		4	0.30	0.30		0.36	63.24
							63.240

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

	Muros						
	Arm vertical	2	70.00	3.30	0.89	411.18	
		2	36.00	3.30	0.89	211.46	
	Arm horizontal	2		0.30	0.89	0.53	
		2	32.00	5.50	0.89	313.28	
		2	40.00	2.90	0.89	206.48	
	Frentes						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Arm vertical	10	28.00	2.70	0.89	672.84	
		1	28.00	2.70	0.89	67.28	
	Arm horizontal	10	32.00	2.30	0.89	655.04	
		1	32.00	2.30	0.89	65.50	
	Soleras						
	Arm long.	1	28.00	0.30	0.89	7.48	
		1	28.00	5.80	0.89	144.54	
		1	28.00	2.90	0.89	72.27	
	Arm trans.	1		2.30	0.89	2.05	
		1	70.00	2.30	0.89	143.29	
		1	36.00	2.30	0.89	73.69	3,046.91
							3,046.910

ELEMENTO 02.2.1.5.5 BAJANTE ESCALONADA A LA SALIDA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

		1	2.30	3.20	1.50	11.04	
		1	3.30	3.20	2.00	21.12	32.16
							32.160

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	2.30	0.60	1.50	4.14	
		1	2.30	2.00	1.80	8.28	
		2	3.30	0.60	2.00	7.92	20.34
							20.340
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muros	2	2.300	2.000		9.200	
		2	3.300	2.000		13.200	
	Frentes	1	2.000	1.800		3.600	
		1	2.000	1.800		3.600	29.600
							29.600
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
	Muros	2	2.30	2.00		9.20	
		2	3.30	2.00		13.20	
	Frentes	1	2.00	1.80		3.60	
		1	2.00	1.80		3.60	29.60
							29.600
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muros	2	2.30	2.00	0.30	2.76	
		2	3.30	2.00	0.30	3.96	
	Frentes	1	1.80	2.00	0.30	1.08	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	1.80	2.00	0.30	1.08	
	Soleras	1	2.00	2.00	0.30	1.20	
		1	3.30	2.00	0.30	1.98	
	Resaltos	1	1.40	0.30	0.30	0.13	12.19
							12.190
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	2.30	2.00		9.20	
		2	3.30	2.00		13.20	
	Frentes	1	2.00	1.80		3.60	
		1	2.00	1.80		3.60	29.60
							29.600
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	2.30	2.00		9.20	
		2	3.30	2.00		13.20	
	Frentes	1	2.00	1.80		3.60	
		1	2.00	1.80		3.60	
	Resalto	2	1.40	0.30		0.84	
		2	0.30	0.30		0.18	30.62
							30.620
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-BRE RECOCIDO Y SEPARADORES.						
	Muros						
	Arm vertical exterior						
		2	12.00	2.00	2.47	118.56	
		2	17.00	2.00	2.47	167.96	
	Arm vertical interior 1						
		2	12.00	2.00	0.89	42.72	
		2	17.00	2.00	0.89	60.52	
	Arm vertical interior 2						
		2	12.00	1.20	0.89	25.63	
		2	17.00	1.20	0.89	36.31	
	Arm horizontal						
		4	10.00	2.60	0.89	92.56	
		4	10.00	3.60	0.89	128.16	
		6	1.00	0.30	0.89	1.60	
		6	1.00	2.60	0.89	13.88	
		6	1.00	3.60	0.89	19.22	
	Frentes						
	Arm vertical	1	10.00	7.50	0.89	66.75	
		1	10.00	7.50	0.89	66.75	
	Arm horizontal	1	18.00	2.30	0.89	36.85	
		1	18.00	2.30	0.89	36.85	
	Soleras						
	Arm long. (inferior)	1	10.00	0.30	1.58	4.74	
		1	10.00	2.60	1.58	41.08	
		1	10.00	3.60	1.58	56.88	
	Arm long. (superior)	1	10.00	0.30	0.89	2.67	
		1	10.00	2.60	0.89	23.14	
		1	10.00	3.60	0.89	32.04	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Arm trans. (inferior)						
		1	12.00	2.30	2.47	68.17	
		1	17.00	2.30	2.47	96.58	
	Arm trans. (superior)						
		1	12.00	2.30	0.89	24.56	
		1	17.00	2.30	0.89	34.80	1,298.98
							1,298.980
	SUBAPARTADO 02.2.1.6 O.D. 3.6 MARCO 5,00 X 3,00 P.K. 3+658,200						
	ELEMENTO 02.2.1.6.1 CUERPO DE OBRA O.D. 3.6						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANS-PORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	60.45	8.20	3.95	1,957.98	
		1	44.95	8.20	3.95	1,455.93	3,413.91
							3,413.910
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALU-DES (EN SU CASO).						
	Solera enterrada 20cm	1	105.40	4.00	0.20	84.32	
		2	60.45	0.60	3.95	286.53	
		2	44.95	0.60	3.95	213.06	583.91
							583.910
696.0010N1	m² FORRO DRENANTE POLIAMIDA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	105.400		14.600	1,538.840	1,538.840
							1,538.840
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	105.40		14.60	1,538.84	1,538.84
							1,538.840
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		2	105.40	0.80	3.00	505.92	
		1	105.40	6.60	0.80	556.51	1,062.43
							1,062.430
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	105.40	7.00	0.80	590.24	590.24
							590.240
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
		1	105.40	7.00	0.10	73.78	73.78
							73.780
680.0030	m² ENCOFRADO VISTO PLANO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	105.40	3.00		632.40	
		1	105.40	5.00		527.00	1,159.40
							1,159.400
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	105.40	3.80		801.04	
		2	105.40	0.90		189.72	990.76
							990.760
696.0120N1	m² PLANCHA POREXPAN E= 0,5 cm						
	PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.						
		10	15.680			156.800	
		2	15.680			31.360	188.160
							188.160
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		2	105.400			210.800	210.800
							210.800
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE CO-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LOCADO.						
		1	105.40	0.50	0.20	10.54	10.54
							10.540
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	TS1 Ø 25	1,055	5.20	3.85		21,121.10	
	TS2 Ø 25	1,055	8.60	3.85		34,931.05	
	TD1 Ø 25	1,055	8.20	3.85		33,306.35	
	TS5 Ø 20	2,110	4.00	2.47		20,846.80	
	TH1 + TS4 Ø 20	1,056	7.65	2.47		19,953.65	
	TH2 Ø 25	2,110	12.73	3.85		103,412.16	
	LS1 + LS2 + LS3 Ø 12	106	105.40	0.89		9,943.44	
	LH1 + LH2 Ø 16	84	105.40	1.58		13,988.69	
	LD1 + LD2 + LD3 Ø 12	90	105.40	0.89		8,442.54	
	TS3 Ø 10	18,304	0.95	0.62		10,781.06	
	TD2 Ø 10	18,304	0.95	0.62		10,781.06	287,507.90
							287,507.900
	ELEMENTO 02.2.1.6.2 BOQUILLAS O.D. 3.6						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	16.40	5.35	0.90	78.97	
		1	12.83	21.50	5.46	1,506.11	1,585.08
							1,585.080
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	8.20	0.60	0.90	4.43	
		1	8.20	0.60	0.90	4.43	8.86
							8.860
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	8.200		2.450	20.090	
		1	8.200		2.450	20.090	40.180
							40.180
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	8.20		2.45	20.09	
		1	8.20		2.45	20.09	40.18
							40.180
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	8.200			8.200	
		1	8.200			8.200	16.400
							16.400
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-1	1	8.20	0.50	3.50	14.35	
	A-2	1	8.20	0.50	3.50	14.35	
	Imposta	2	0.35	6.60	0.20	0.92	
		2	0.30	6.60	0.20	0.79	30.41
							30.410
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-1	1	8.20	4.75	0.80	31.16	
	A-2	1	8.20	4.75	0.80	31.16	62.32
							62.320
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
		1.00	8.20	4.75	3.90		
		1.00	8.20	4.75	3.90	7.80	
							7.800
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1.00	0.30	5.00	1.50	1.50	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.500
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	8.20		3.50	28.70	
	A-2	1	8.20		3.50	28.70	
	Imposta	2		6.60	0.40	5.28	
	CIMIENTOS	2	16.40		0.90	29.52	92.20
							92.200
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	8.20		3.54	29.03	
	A-2	1	8.20		3.54	29.03	
	Imposta	2		6.60	0.40	5.28	63.34
							63.340
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	38	8.20	0.89		277.32	
	Ø 12	38	8.20	0.89		277.32	
	Ø 20	66	5.15	2.47		839.55	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 16	66	5.15	1.58		537.04	
	Ø 12	66	0.80	0.89		46.99	
	Ø 12	66	0.70	0.89		41.12	
	Ø 12	2	8.20	0.89		14.60	
	A-2						
	Ø 12	38	8.20	0.89		277.32	
	Ø 12	38	8.20	0.89		277.32	
	Ø 20	66	5.15	2.47		839.55	
	Ø 16	66	5.15	1.58		537.04	
	Ø 12	66	0.80	0.89		46.99	
	Ø 12	66	0.70	0.89		41.12	
	Ø 12	2	8.20	0.89		14.60	
	ALZADOS						
	A-1						
	Ø 12	66	2.75	0.89		161.54	
	Ø 16	66	2.75	1.58		286.77	
	Ø 12	18	8.20	0.89		131.36	
	Ø 12	18	8.20	0.89		131.36	
	A-2						
	Ø 12	66	2.75	0.89		161.54	
	Ø 16	66	2.75	1.58		286.77	
	Ø 12	18	8.20	0.89		131.36	
	Ø 12	18	8.20	0.89		131.36	
	IMPOSTA						
	Ø 12	16	6.60	0.89		93.98	
	Ø 12	66	1.40	0.89		82.24	5,666.16
							5,666.160

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Boquilla entrada	1	21.50	12.85		276.28	
	Boquilla salida	1	6.50	6.00		39.00	315.28
							315.280

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

Boquilla entrada	1	21.500	12.850		276.275	
	2	21.500	1.000		43.000	
	2	12.850	1.000		25.700	
Boquilla salida	1	6.500	6.000		39.000	
	2	6.500	1.000		13.000	
	2	6.000	1.000		12.000	408.975
						408.975

SUBAPARTADO 02.2.1.7 O.D. 4.7 MARCO 8,00 X 3,00 P.K. 4+704,903

ELEMENTO 02.2.1.7.1 CUERPO DE OBRA O.D. 4.7

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

	1	62.96	11.20	1.50	1,057.73	
	1	38.55	11.20	1.50	647.64	1,705.37
						1,705.370

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Solera enterrada 20cm	1	62.96	7.00	0.20	88.14	
		2	62.96	0.60	1.50	113.33	
		2	38.55	0.60	1.50	69.39	270.86
							270.860
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	62.960		17.600	1,108.096	1,108.096
							1,108.096
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	62.96		17.60	1,108.10	1,108.10
							1,108.100
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		2	62.96	0.80	3.00	302.21	
		1	62.96	9.60	0.80	483.53	785.74
							785.740
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	62.96	10.00	0.80	503.68	503.68
							503.680
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
		1	62.96	10.00	0.10	62.96	62.96
							62.960
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	62.96	3.80		478.50	
		2	62.96	0.90		113.33	591.83
							591.830
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	62.96	3.00		377.76	
		1	62.96	8.00		503.68	881.44
							881.440
696.0120N1	m² PLANCHA POREXPAN E= 0,5 cm						
	PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.						
		6	20.480			122.880	
		2	20.480			40.960	163.840

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							163.840
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		2	62.960			125.920	125.920
							125.920
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	62.96	0.50	0.20	6.30	6.30
							6.300
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Ø 25	421	8.20	3.85		13,290.97	
	Ø 25	421	11.60	3.85		18,801.86	
	Ø 25	421	11.20	3.85		18,153.52	
	Ø 20	842	4.00	2.47		8,318.96	
	Ø 20	842	7.65	2.47		15,910.01	
	Ø 25	842	14.23	3.85		46,129.39	
	Ø 12	146	62.96	0.89		8,181.02	
	Ø 16	84	62.96	1.58		8,356.05	
	Ø 12	130	62.96	0.89		7,284.47	
	Ø 10	11,605	0.95	0.62		6,835.35	
	Ø 10	11,605	0.95	0.62		6,835.35	158,096.95

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							158,096.950
	ELEMENTO 02.2.1.7.2 BOQUILLAS O.D. 4.7						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	46.00	1.00		46.00	
		1	47.25	1.20		56.70	
		1	11.23	5.35	0.90	54.07	
		1	10.84	5.35	0.90	52.19	
		1	4.65	17.00	1.70	134.39	
		1	3.00	15.00	1.35	60.75	404.10
							404.100
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	9.04	0.60	0.90	4.88	
		1	2.19	0.60	0.90	1.18	
		1	4.23	0.60	0.90	2.28	
		1	6.61	0.60	0.90	3.57	11.91
							11.910
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	9.040		2.550	23.052	
		1	2.190		2.550	5.585	
		1	4.230		2.550	10.787	
		1	6.610		2.550	16.856	56.280
							56.280

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

		1	9.04		2.55	23.05	
		1	2.19		2.55	5.58	
		1	4.23		2.55	10.79	
		1	6.61		2.55	16.86	56.28
							56.280

424.0028N1 m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm

TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.

		1	9.040			9.040	
		1	2.190			2.190	
		1	4.230			4.230	
		1	6.610			6.610	22.070
							22.070

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-1	1	9.04	0.50	2.25	10.17	
	A-2	1	2.19	0.50	2.25	2.46	
	A-3	1	4.23	0.50	2.25	4.76	
	A-4	1	6.61	0.50	2.25	7.44	
	Imposta	2	0.35	9.60	0.20	1.34	
		2	0.30	9.60	0.20	1.15	27.32
							27.320

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	A-1	1	9.04	4.75	0.80	34.35	
	A-2	1	2.19	4.75	0.80	8.32	
	A-3	1	4.23	4.75	0.80	16.07	
	A-4	1	6.61	4.75	0.80	25.12	83.86
							83.860

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	A-1	1	9.04	4.75	0.10	4.29	
	A-2	1	2.19	4.75	0.10	1.04	
	A-3	1	4.23	4.75	0.10	2.01	
	A-4	1	6.61	4.75	0.10	3.14	10.48
							10.480

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

	Rastrillo	1	0.30	16.00	1.00	4.80	
		1	0.30	13.50	1.00	4.05	

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Solera	1	46.00	0.20		9.20	
		1	47.25	0.20		9.45	27.50
							27.500
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	9.04		2.25	20.34	
	A-2	1	2.19		2.25	4.93	
	A-3	1	4.23		2.25	9.52	
	A-4	1	6.61		2.25	14.87	
	Imposta	2		9.60	0.40	7.68	57.34
							57.340
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	9.04		2.25	20.34	
	A-2	1	2.19		2.25	4.93	
	A-3	1	4.23		2.25	9.52	
	A-4	1	6.61		2.25	14.87	
	Imposta	2		9.60	0.40	7.68	
	CIMIENTOS	2	11.23		0.90	20.21	
		2	10.84		0.90	19.51	97.06
							97.060
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	38	9.04	0.89		305.73	
	Ø 12	38	9.04	0.89		305.73	
	Ø 20	73	5.15	2.47		928.60	
	Ø 16	73	5.15	1.58		594.00	
	Ø 12	73	1.40	0.89		90.96	
	Ø 12	73	1.30	0.89		84.46	
	Ø 12	2	9.04	0.89		16.09	
	A-2						
	Ø 12	38	2.19	0.89		74.07	
	Ø 12	38	2.19	0.89		74.07	
	Ø 20	18	5.15	2.47		228.97	
	Ø 16	18	5.15	1.58		146.47	
	Ø 12	18	1.40	0.89		22.43	
	Ø 12	18	1.30	0.89		20.83	
	Ø 12	2	2.19	0.89		3.90	
	A-3						
	Ø 12	38	4.23	0.89		143.06	
	Ø 12	38	4.23	0.89		143.06	
	Ø 20	34	5.15	2.47		432.50	
	Ø 16	34	5.15	1.58		276.66	
	Ø 12	34	1.40	0.89		42.36	
	Ø 12	34	1.30	0.89		39.34	
	Ø 12	2	4.23	0.89		7.53	
	A-4						
	Ø 12	38	6.61	0.89		223.55	
	Ø 12	38	6.61	0.89		223.55	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 20	53	5.15	2.47		674.19	
	Ø 16	53	5.15	1.58		431.26	
	Ø 12	53	1.40	0.89		66.04	
	Ø 12	53	1.30	0.89		61.32	
	Ø 12	2	6.61	0.89		11.77	
	ALZADOS						
	A-1						
	Ø 16	73	2.75	1.58		317.19	
	Ø 12	73	2.75	0.89		178.67	
	Ø 12	18	9.04	0.89		144.82	
	Ø 12	18	9.04	0.89		144.82	
	A-2						
	Ø 16	18	2.75	1.58		78.21	
	Ø 12	18	2.75	0.89		44.06	
	Ø 12	18	2.19	0.89		35.08	
	Ø 12	18	2.19	0.89		35.08	
	A-3						
	Ø 16	34	2.75	1.58		147.73	
	Ø 12	34	2.75	0.89		83.22	
	Ø 12	18	4.23	0.89		67.76	
	Ø 12	18	4.23	0.89		67.76	
	A-4						
	Ø 16	53	2.75	1.58		230.29	
	Ø 12	53	2.75	0.89		129.72	
	Ø 12	18	6.61	0.89		105.89	
	Ø 12	18	6.61	0.89		105.89	
	IMPOSTA						
	Ø 12	16	9.60	0.89		136.70	
	Ø 12	96	1.40	0.89		119.62	7,845.01
							7,845.010

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	18.33	4.65	1.00	85.23	
		1	15.00	3.00	1.00	45.00	130.23
							130.230
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	20.330	6.650		135.195	
		1	17.000	5.000		85.000	220.195
							220.195

APARTADO 02.2.2 ENLACES Y CAMINOS

SUBAPARTADO 02.2.2.2 O.D. 2.6.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280

ELEMENTO 02.2.2.2.1 CUERPO DE OBRA O.D. 2.6.1

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	3.27	3.80	3.00	37.28	
		1	4.66	3.80	2.00	35.42	72.70
							72.700
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	3.27	0.60	3.00	11.77	
		2	4.66	0.60	2.00	11.18	22.95
							22.950
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	7.93	1.85		14.67	14.67
							14.670
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
		1	7.93			7.93	7.93
							7.930
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	7.93	0.99	15.70	15.70	
							15.700
	ELEMENTO 02.2.2.2.2 BOQUILLAS O.D. 2.6.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	24.56	1.70		41.75	
		1	3.00	2.50	1.00	7.50	
		1	3.00	4.00	1.00	12.00	61.25
							61.250
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	2.61	0.60	0.50	0.78	
		1	2.95	0.60	0.50	0.89	1.67
							1.670
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	2.610		1.840	4.802	
		1	2.950		1.840	5.428	10.230
							10.230
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	2.61		1.39	3.63	
		1	2.95		1.39	4.10	7.73
							7.730
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	2.610			2.610	
		1	2.950			2.950	5.560
							5.560
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	2.61	0.40	1.39	1.45	
	A-4	1	2.95	0.40	1.39	1.64	
	Imposta	2	0.35	2.60	0.20	0.36	
	Timpano	2	2.18	2.60	0.30	3.40	6.85
							6.850
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	2.61	3.05	0.40	3.18	
	A-4	1	2.95	3.05	0.40	3.60	6.78
							6.780
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3	1	2.61	3.05	0.10	0.80	
	A-4	1	2.95	3.05	0.10	0.90	1.70
							1.700
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	7.88	0.20		1.58	
	Rastrillo	1	0.30	5.70	1.00	1.71	3.29
							3.290
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.61		1.39	3.63	
	A-4	1	2.95		1.39	4.10	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	20.11
							20.110
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.61		2.19	5.72	
	A-4	1	2.95		2.19	6.46	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	24.56
							24.560
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-3						
	Ø 12	16	2.61	0.89		37.17	
	Ø 12	16	2.61	0.89		37.17	
	Ø 16	18	3.65	1.58		103.81	
	Ø 12	18	3.65	0.89		58.47	
	Ø 12	18	1.40	0.89		22.43	
	Ø 12	9	1.20	0.89		9.61	
	Ø 12	3	3.01	0.89		8.04	
	Ø 12	3	3.01	0.89		8.04	
	Ø 12	3	3.01	0.89		8.04	
	A-4						
	Ø 12	16	2.95	0.89		42.01	
	Ø 12	16	2.95	0.89		42.01	
	Ø 16	20	3.65	1.58		115.34	
	Ø 12	20	3.65	0.89		64.97	
	Ø 12	20	1.40	0.89		24.92	
	Ø 12	10	1.20	0.89		10.68	
	Ø 12	3	3.35	0.89		8.94	
	Ø 12	3	3.35	0.89		8.94	
	Ø 12	3	3.35	0.89		8.94	
	MUROS						
	A-3						
	Ø 12	9	1.79	0.89		14.34	
	Ø 12	18	1.79	0.89		28.68	
	Ø 12	10	2.61	0.89		23.23	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	10	2.61	0.89		23.23	
	A-4						
	Ø 12	10	1.79	0.89		15.93	
	Ø 12	20	1.79	0.89		31.86	
	Ø 12	10	2.95	0.89		26.26	
	Ø 12	10	2.95	0.89		26.26	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	2.58	45.92	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	971.74
							971.740
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	3.00	3.00	1.00	9.00	
		1	2.20	3.00	1.00	6.60	15.60
							15.600
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	3.000	5.000		15.000	
		1	5.700	5.000		28.500	43.500
							43.500

ELEMENTO 02.2.2.2.3 POZO DE ENTRADA

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.60	4.32	4.20	47.17	47.17
							47.170
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	2.60	0.60	4.48	13.98	13.98
							13.980
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	2.60	3.12	0.30	2.43	
		1	0.30	3.12	0.12	0.11	
		1	0.30	3.12	4.48	4.19	
		1	0.30	3.12	1.48	1.39	
		2	2.00	0.30	4.48	5.38	13.50
							13.500
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	0.50	0.30	2.52	0.38	0.38
							0.380
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.52	0.12	0.30	
		1		2.52	4.48	11.29	
		1		2.52	1.48	3.73	
		2		2.00	4.48	17.92	33.24
							33.240
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		3.12	0.42	1.31	
		1		3.12	4.78	14.91	
		1		3.12	1.48	4.62	
		2		2.60	4.78	24.86	45.70
							45.700
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		14	3.32	0.89		41.37	
		21	2.24	0.89		41.87	
		18	4.52	0.89		72.41	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		21	3.44	0.89		64.29	
		2	3.12	0.89		5.55	
		60	3.12	0.89		166.61	
		42	4.78	0.89		178.68	
		20	3.12	0.89		55.54	
		21	3.86	0.89		72.14	
		120	2.00	0.89		213.60	
		56	4.78	0.89		238.24	1,150.30
							1,150.300
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		16				16.00	16.00
							16.000

SUBAPARTADO 02.2.2.3 O.D. 3.1.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280

ELEMENTO 02.2.2.3.1 CUERPO DE OBRA O.D. 3.1.1

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

1	3.06	3.80	3.50	40.70		
1	4.23	3.80	2.80	45.01	85.71	
						85.710

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	3.06	0.60	3.50	12.85	
		2	4.23	0.60	2.80	14.21	27.06
							27.060
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	7.29	1.85		13.49	13.49
							13.490
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
		1	7.29			7.29	7.29
							7.290
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	7.29	0.99		14.43	14.43
							14.430

ELEMENTO 02.2.2.3.2 BOQUILLAS O.D. 3.1.1

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	18.00	3.00		54.00	
		1	7.30	4.30	2.50	78.48	132.48
							132.480
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.00	0.60	0.50	0.90	
		1	3.00	0.60	0.50	0.90	1.80
							1.800
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.000		1.650	4.950	
		1	3.000		1.650	4.950	9.900
							9.900
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.00		1.20	3.60	
		1	3.00		1.20	3.60	7.20

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							7.200
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	3.000			3.000	
		1	3.000			3.000	6.000
							6.000
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	3.00	0.40	2.37	2.84	
	A-4	1	3.00	0.40	2.37	2.84	
	Imposta	2	0.35	2.60	0.20	0.36	
	Timpano	2	2.18	2.60	0.30	3.40	9.44
							9.440
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	3.00	3.05	0.40	3.66	
	A-4	1	3.00	3.05	0.40	3.66	7.32
							7.320
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-3	1	3.00	3.05	0.10	0.92	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-4	1	3.00	3.05	0.10	0.92	1.84
							1.840
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Rastrillo	1	0.30	7.75	1.00	2.33	2.33
							2.330
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		2.37	7.11	
	A-4	1	3.00		2.37	7.11	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.18	2.60	11.34	26.60
							26.600
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		2.37	7.11	
	A-4	1	3.00		2.37	7.11	
	Imposta	2		2.60	0.30	1.56	
	Timpano	2		2.18	2.60	11.34	27.12
							27.120
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-3						
	Ø 10	16	3.00	0.62			29.76
	Ø 10	16	3.00	0.62			29.76
	Ø 16	20	3.65	1.58			115.34
	Ø 12	20	3.65	0.89			64.97
	Ø 12	20	1.40	0.89			24.92
	Ø 12	10	1.20	0.89			10.68
	Ø 12	3	3.40	0.89			9.08
	Ø 12	3	3.40	0.89			9.08
	Ø 12	3	3.40	0.89			9.08
	A-4						
	Ø 10	16	3.00	0.62			29.76
	Ø 10	16	3.00	0.62			29.76
	Ø 16	20	3.65	1.58			115.34
	Ø 12	20	3.65	0.89			64.97
	Ø 12	20	1.40	0.89			24.92
	Ø 12	10	1.20	0.89			10.68
	Ø 12	3	3.40	0.89			9.08
	Ø 12	3	3.40	0.89			9.08
	Ø 12	3	3.40	0.89			9.08
	MUROS						
	A-3						
	Ø 12	10	1.60	0.89			14.24
	Ø 12	20	1.60	0.89			28.48
	Ø 12	8	3.00	0.89			21.36
	Ø 12	8	3.00	0.89			21.36
	A-4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	10	1.60	0.89		14.24	
	Ø 12	20	1.60	0.89		28.48	
	Ø 12	8	3.00	0.89		21.36	
	Ø 12	8	3.00	0.89		21.36	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	2.58	45.92	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	938.64
							938.640

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

1	2.20	3.00	1.00	6.60	6.60
					6.600

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

1	7.750	5.000		38.750	38.750
					38.750

ELEMENTO 02.2.2.3.3 POZO DE ENTRADA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.10	4.00	4.80	40.32	40.32
							40.320

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

2	2.10	0.60	3.46	8.72	8.72
					8.720

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

1	2.10	2.80	0.30	1.76	
1	0.30	2.80	0.32	0.27	
1	0.30	2.80	2.25	1.89	
1	0.30	2.80	1.05	0.88	
2	1.50	0.30	3.46	3.11	7.91
					7.910

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

1	2.20	0.32	0.70	
1	2.20	2.25	4.95	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		2.20	1.05	2.31	
		2		1.50	3.46	10.38	18.34
							18.340
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.80	0.62	1.74	
		1		2.80	2.55	7.14	
		1		2.80	1.05	2.94	
		2		2.10	3.76	15.79	27.61
							27.610
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		10	3.00	0.89		26.70	
		19	2.14	0.89		36.19	
		14	4.20	0.89		52.33	
		19	3.34	0.89		56.48	
		6	2.80	0.89		14.95	
		30	2.80	0.89		74.76	
		38	2.55	0.89		86.24	
		14	2.80	0.89		34.89	
		19	3.00	0.89		50.73	
		96	1.50	0.89		128.16	
		40	3.76	0.89		133.86	695.29
							695.290

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		13				13.00	13.00
							13.000
	ELEMENTO 02.2.2.3.4 BAJANTE ESCALONADA A LA ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	4.80	3.20	4.00	61.44	61.44
							61.440
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	4.80	0.60	4.00	23.04	
		1	4.80	2.00	2.50	24.00	47.04
							47.040
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Muros	2	4.800	4.000		38.400	
	Frentes	2	2.000	2.400		9.600	48.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							48.000
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
	Muros	2	4.80	4.00		38.40	
	Frentes	2	2.00	2.40		9.60	48.00
							48.000
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muros	2	4.80	4.00	0.30	11.52	
	Frentes	2	2.40	2.00	0.30	2.88	
	Soleras	2	2.10	2.00	0.30	2.52	
	Resaltos	2	1.40	0.30	0.30	0.25	17.17
							17.170
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	4.80	4.00		38.40	
	Frentes	2	2.00	2.40		9.60	
	Resalto	4	1.40	0.30		1.68	
		4	0.30	0.30		0.36	50.04
							50.040
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muros	2	4.80	4.00		38.40	
	Frentes	2	2.00	2.40		9.60	48.00
							48.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muros						
	Arm vertical						
		2	64.00	4.30	0.89	489.86	
	Arm horizontal						
		2	32.00	5.10	0.89	290.50	
	Frentes						
	Arm vertical	10	28.00	2.70	0.89	672.84	
		1	28.00	0.30	0.89	7.48	
	Arm horizontal	10	32.00	2.30	0.89	655.04	
		1		2.30	0.89	2.05	
	Soleras						
	Arm long.	1	28.00	0.30	0.89	7.48	
		1	28.00	5.40	0.89	134.57	
		1	28.00	0.30	0.89	7.48	
	Arm trans.						
		1	64.00	2.30	0.89	131.01	
							2,398.31
							2,398.310

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 02.2.2.4 O.T.D.L. 2.6 TUBO Ø 1.50 M.I. P.K. 2+500-3+280						
	ELEMENTO 02.2.2.4.1 CUERPO DE OBRA O.T.D.L. 2.6						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.81	3.50	3.00	29.51	
		1	4.36	3.50	2.00	30.52	60.03
							60.030
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	2.81	0.60	3.00	10.12	
		2	4.36	0.60	2.00	10.46	20.58
							20.580
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	7.17	1.64		11.76	11.76
							11.760
414.0210	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	7.17			7.17	7.17
							7.170
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	7.17		0.99	14.20	14.20
							14.200
	ELEMENTO 02.2.2.4.2 BOQUILLAS O.T.D.L. 2.6						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	20.50	0.80		16.40	16.40
							16.400
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	2.70	0.60	0.50	0.81	
		1	2.70	0.60	0.50	0.81	1.62

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.620
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	2.700		1.680	4.536	
		1	2.700		1.680	4.536	9.072
							9.072
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	2.70		1.23	3.32	
		1	2.70		1.23	3.32	6.64
							6.640
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	2.700			2.700	
		1	2.700			2.700	5.400
							5.400
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	2.70	0.40	1.23	1.33	
	A-4	1	2.70	0.40	1.23	1.33	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Imposta	2	0.35	2.30	0.20	0.32	
	Timpano	2	2.30	1.85	0.30	2.55	5.53
							5.530
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	2.70	3.05	0.40	3.29	
	A-4	1	2.70	3.05	0.40	3.29	6.58
							6.580
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-3	1	2.70	3.05	0.10	0.82	
	A-4	1	2.70	3.05	0.10	0.82	1.64
							1.640
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	4.30	0.20		0.86	
	Rastrillo	1	0.30	2.10	1.00	0.63	1.49
							1.490
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.70		1.23	3.32	
	A-4	1	2.70		1.23	3.32	
	Imposta	2		2.30	0.20	0.92	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Timpano	2		1.85	2.30	8.51	16.07
							16.070
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	2.70		2.03	5.48	
	A-4	1	2.70		2.03	5.48	
	Imposta	2		2.30	0.20	0.92	
	Timpano	2		1.85	2.30	8.51	20.39
							20.390
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Cimientos						
	A-3						
	Ø 12	16	2.70	0.89		38.45	
	Ø 12	16	2.70	0.89		38.45	
	Ø 16	18	3.65	1.58		103.81	
	Ø 12	18	3.65	0.89		58.47	
	Ø 12	18	1.40	0.89		22.43	
	Ø 12	9	1.20	0.89		9.61	
	Ø 12	3	3.10	0.89		8.28	
	Ø 12	3	3.10	0.89		8.28	
	Ø 12	3	3.10	0.89		8.28	
	A-4						
	Ø 12	16	2.70	0.89		38.45	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	16	2.70	0.89		38.45	
	Ø 16	18	3.65	1.58		103.81	
	Ø 12	18	3.65	0.89		58.47	
	Ø 12	18	1.40	0.89		22.43	
	Ø 12	9	1.20	0.89		9.61	
	Ø 12	3	3.10	0.89		8.28	
	Ø 12	3	3.10	0.89		8.28	
	Ø 12	3	3.10	0.89		8.28	
	Muros						
	A-3						
	Ø 12	9	1.63	0.89		13.06	
	Ø 12	18	1.63	0.89		26.11	
	Ø 12	9	2.70	0.89		21.63	
	Ø 12	9	2.70	0.89		21.63	
	A-4						
	Ø 12	9	1.63	0.89		13.06	
	Ø 12	18	1.63	0.89		26.11	
	Ø 12	9	2.70	0.89		21.63	
	Ø 12	9	2.70	0.89		21.63	
	IMPOSTA						
	Ø 12	16	2.30	0.89		32.75	
	Ø 12	24	1.40	0.89		29.90	
	TIMPANO						
	Ø 12	4	5.00	0.89	1.23	21.89	
		2	4.71	0.89		8.38	
		16	2.30	0.89		32.75	882.65
							882.650
430.0010	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
		3	2.50			7.50	7.50
							7.500
	ELEMENTO 02.2.2.4.3 POZO DE ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.10	3.30	4.20	29.11	29.11
							29.110
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	2.10	0.60	3.12	7.86	7.86
							7.860
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	2.10	2.10	0.30	1.32	
		1	0.30	2.10	0.20	0.13	
		1	0.30	2.10	3.44	2.17	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	0.30	2.10	1.00	0.63	
		2	1.50	0.30	3.12	2.81	7.06
							7.060
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	0.30	0.30	2.30	0.21	0.21
							0.210
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		1.50	0.20	0.30	
		1		1.50	3.44	5.16	
		1		1.50	1.00	1.50	
		2		1.50	3.12	9.36	16.32
							16.320
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.10	0.50	1.05	
		1		2.10	3.74	7.85	
		1		2.10	1.00	2.10	
		2		2.10	3.42	14.36	25.36
							25.360
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		10	2.30	0.89		20.47	
		14	1.90	0.89		23.67	
		14	3.50	0.89		43.61	
		14	3.10	0.89		38.63	
		4	2.10	0.89		7.48	
		46	2.10	0.89		85.97	
		28	3.74	0.89		93.20	
		14	2.10	0.89		26.17	
		14	2.90	0.89		36.13	
		84	1.50	0.89		112.14	
		40	3.42	0.89		121.75	609.22
							609.220
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		12				12.00	12.00
							12.000
430.0020	m BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 m DE ANCHO INTERIOR						
	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES						
		3	5.00			15.00	15.00
							15.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 02.2.2.5 O.T.D.L. 3.1 TUBO Ø 1.50 M.I. P.K. 2+500-3+280						
	ELEMENTO 02.2.2.5.1 CUERPO DE OBRA O.T.D.L. 3.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	3.07	3.50	2.60	27.94	
		1	5.20	3.50	2.20	40.04	67.98
							67.980
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	3.07	0.60	2.60	9.58	
		2	5.20	0.60	2.20	13.73	23.31
							23.310
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	8.27	1.64		13.56	13.56
							13.560
414.0210	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	8.27			8.27	8.27
							8.270
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	8.27		0.99	16.37	16.37
							16.370
	ELEMENTO 02.2.2.5.2 BOQUILLAS O.T.D.L. 3.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	7.70	2.30		17.71	17.71
							17.710
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	1.39	0.60	0.50	0.42	
		1	0.64	0.60	0.50	0.19	0.61

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							0.610
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	1.390		1.680	2.335	
		1	0.640		1.680	1.075	3.410
							3.410
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	1.39		1.23	1.71	
		1	0.64		1.23	0.79	2.50
							2.500
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	1.390			1.390	
		1	0.640			0.640	2.030
							2.030
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	1.39	0.40	1.23	0.68	
	A-4	1	0.64	0.40	1.23	0.31	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Imposta	2	0.35	2.30	0.20	0.32	
	Timpano	2	2.30	1.85	0.30	2.55	3.86
							3.860

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	A-3	1	1.39	3.05	0.40	1.70	
	A-4	1	0.64	3.05	0.40	0.78	2.48
							2.480

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	A-3	1	1.39	3.05	0.10	0.42	
	A-4	1	0.64	3.05	0.10	0.20	0.62
							0.620

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

	Solera	1	1.61	0.20		0.32	
	Rastrillo	1	0.30	4.00	1.00	1.20	1.52
							1.520

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	A-3	1	1.39		1.23	1.71	
	A-4	1	0.64		1.23	0.79	
	Imposta	2		2.30	0.20	0.92	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Timpano	2		2.30	1.85	8.51	11.93
							11.930

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	A-3	1	1.39		2.03	2.82	
	A-4	1	0.64		2.03	1.30	
	Imposta	2		2.30	0.20	0.92	
	Timpano	2		1.85	2.30	8.51	13.55
							13.550

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Cimientos					
A-3					
Ø 12	16	1.39	0.89		19.79
Ø 12	16	1.39	0.89		19.79
Ø 16	10	3.65	1.58		57.67
Ø 12	10	3.65	0.89		32.49
Ø 12	10	1.40	0.89		12.46
Ø 12	5	1.20	0.89		5.34
Ø 12	3	1.79	0.89		4.78
Ø 12	3	1.79	0.89		4.78
Ø 12	3	1.79	0.89		4.78
A-4					
Ø 12	16	0.64	0.89		9.11

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	16	0.64	0.89		9.11	
	Ø 16	5	3.65	1.58		28.84	
	Ø 12	5	3.65	0.89		16.24	
	Ø 12	5	1.40	0.89		6.23	
	Ø 12	3	1.20	0.89		3.20	
	Ø 12	3	1.04	0.89		2.78	
	Ø 12	3	1.04	0.89		2.78	
	Ø 12	3	1.04	0.89		2.78	
	Muros						
	A-3						
	Ø 12	5	1.63	0.89		7.25	
	Ø 12	10	1.63	0.89		14.51	
	Ø 12	9	1.39	0.89		11.13	
	Ø 12	9	1.39	0.89		11.13	
	A-4						
	Ø 12	3	1.63	0.89		4.35	
	Ø 12	5	1.63	0.89		7.25	
	Ø 12	9	0.64	0.89		5.13	
	Ø 12	9	0.64	0.89		5.13	
	Imposta						
	Ø 12	16	2.30	0.89		32.75	
	Ø 12	24	1.40	0.89		29.90	
	Tímpano						
	Ø 12	4	5.00	0.89	1.23	21.89	
		2	4.71	0.89		8.38	
		16	2.30	0.89		32.75	434.50
							434.500

ELEMENTO 02.2.2.5.3 POZO DE ENTRADA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	1.80	4.10	3.45	25.46	25.46
							25.460

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

		2	1.80	0.60	3.41	7.37	7.37
							7.370

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

		1	1.80	2.90	0.30	1.57	
		1	0.30	2.90	0.15	0.13	
		1	0.30	2.90	3.61	3.14	
		1	0.30	2.90	1.26	1.10	
		2	1.20	0.30	3.41	2.46	8.40
							8.400

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

		1	0.58	0.30	2.30	0.40	0.40

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							0.400
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.30	0.15	0.35	
		1		2.30	3.61	8.30	
		1		2.30	1.26	2.90	
		2		1.20	3.41	8.18	19.73
							19.730
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1		2.90	0.45	1.31	
		1		2.90	3.91	11.34	
		1		2.90	1.26	3.65	
		2		1.80	3.71	13.36	29.66
							29.660
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		8	3.10	0.89		22.07	
		20	1.50	0.89		26.70	
		12	4.30	0.89		45.92	
		20	2.70	0.89		48.06	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	2.90	0.89		5.16	
		50	2.90	0.89		129.05	
		40	3.91	0.89		139.20	
		18	2.90	0.89		46.46	
		20	3.42	0.89		60.88	
		92	1.20	0.89		98.26	
		32	3.71	0.89		105.66	727.42
							727.420
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		13				13.00	13.00
							13.000

SUBAPARTADO 02.2.2.6 O.T.D.L. 3.2 TUBO Ø 1.50 M.I. P.K. 2+500-3+280

ELEMENTO 02.2.2.6.1 CUERPO DE OBRA O.T.D.L. 3.2

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	3.09	3.50	3.40	36.77	
		1	4.77	3.50	3.40	56.76	93.53
							93.530
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	3.09	0.60	3.40	12.61	
		2	4.77	0.60	3.40	19.46	32.07
							32.070
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	7.86	1.64		12.89	12.89
							12.890
414.0210	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
		1	7.86			7.86	7.86
							7.860
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	7.86			15.72	15.72
							15.720
	ELEMENTO 02.2.2.6.2 BOQUILLAS O.T.D.L. 3.2						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	27.02	2.30		62.15	62.15
							62.150
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.46	0.60	0.50	1.04	
		1	3.46	0.60	0.50	1.04	2.08
							2.080
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.460	1.680		5.813	
		1	3.460	1.680		5.813	11.626
							11.626
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.46	1.23		4.26	
		1	3.46	1.23		4.26	8.52
							8.520
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	3.460			3.460	
		1	3.460			3.460	6.920
							6.920
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	A-3	1	3.46	0.40	1.23	1.70	
	A-4	1	3.46	0.40	1.23	1.70	
	Imposta	2	0.35	2.30	0.20	0.32	
	Timpano	2	1.85	2.30	0.30	2.55	6.27
							6.270
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	3.46	3.05	0.40	4.22	
	A-4	1	3.46	3.05	0.40	4.22	8.44
							8.440
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-3	1	3.46	3.05	0.10	1.06	
	A-4	1	3.46	3.05	0.10	1.06	2.12
							2.120
610.0020	m³ HORMIGÓN C20/25						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	6.26	0.20		1.25	
	Rastrillo	1	0.30	2.70	1.00	0.81	2.06
							2.060
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.46		1.23	4.26	
	A-4	1	3.46		1.23	4.26	
	Imposta	2		2.30	0.20	0.92	
	Timpano	2		1.85	2.30	8.51	17.95
							17.950
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.46		2.03	7.02	
	A-4	1	3.46		2.03	7.02	
	Imposta	2		2.30	0.20	0.92	
	Timpano	2		1.85	2.30	8.51	23.47
							23.470
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimientos						
	A-3						
	Ø 12	16	3.46	0.89		49.27	
	Ø 12	16	3.46	0.89		49.27	
	Ø 16	24	3.65	1.58		138.41	
	Ø 12	24	3.65	0.89		77.96	
	Ø 12	24	1.40	0.89		29.90	
	Ø 12	12	1.20	0.89		12.82	
	Ø 12	3	3.86	0.89		10.31	
	Ø 12	3	3.86	0.89		10.31	
	Ø 12	3	3.86	0.89		10.31	
	A-4						
	Ø 12	16	3.46	0.89		49.27	
	Ø 12	16	3.46	0.89		49.27	
	Ø 16	24	3.65	1.58		138.41	
	Ø 12	24	3.65	0.89		77.96	
	Ø 12	24	1.40	0.89		29.90	
	Ø 12	12	1.20	0.89		12.82	
	Ø 12	3	3.86	0.89		10.31	
	Ø 12	3	3.86	0.89		10.31	
	Ø 12	3	3.86	0.89		10.31	
	Muros						
	A-3						
	Ø 12	12	1.63	0.89		17.41	
	Ø 12	24	1.63	0.89		34.82	
	Ø 12	9	3.46	0.89		27.71	
	Ø 12	9	3.46	0.89		27.71	
	A-4						
	Ø 12	12	1.63	0.89		17.41	
	Ø 12	24	1.63	0.89		34.82	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	9	3.46	0.89		27.71	
	Ø 12	9	3.46	0.89		27.71	
	IMPOSTA						
	Ø 12	16	2.30	0.89		32.75	
	Ø 12	24	1.40	0.89		29.90	
	TIMPANO						
	Ø 12	4	5.00	0.89	1.23	21.89	
		2	4.71	0.89		8.38	
		16	2.30	0.89		32.75	1,118.09
							1,118.090

ELEMENTO 02.2.2.6.3 POZO DE ENTRADA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

1	2.10	4.10	3.50	30.14	30.14	
						30.140

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

2	2.10	0.60	3.97	10.00	10.00	
						10.000

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	2.10	2.90	0.30	1.83	
		1	0.30	2.90	0.05	0.04	
		1	0.30	2.90	4.17	3.63	
		1	0.30	2.90	1.26	1.10	
		2	1.50	0.30	3.97	3.57	10.17
							10.170
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	0.38	0.30	2.30	0.26	0.26
							0.260
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.30	0.05		0.12	
		1	2.30	4.17		9.59	
		1	2.30	1.26		2.90	
		2	1.50	3.97		11.91	24.52
							24.520
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.90	0.35		1.02	
		1	2.90	4.47		12.96	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		2.90	1.26	3.65	
		2		2.10	4.27	17.93	35.56
							35.560
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		10	3.10	0.89		27.59	
		20	1.60	0.89		28.48	
		14	4.30	0.89		53.58	
		20	2.80	0.89		49.84	
		2	2.90	0.89		5.16	
		56	2.90	0.89		144.54	
		40	4.47	0.89		159.13	
		18	2.90	0.89		46.46	
		20	3.42	0.89		60.88	
		108	1.50	0.89		144.18	
		40	4.27	0.89		152.01	871.85
							871.850
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		15				15.00	15.00
							15.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 02.2.2.7 O.T.D.L. 4.7 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA						
	ELEMENTO 02.2.2.7.1 CUERPO DE OBRA O.T.D.L. 4.7						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	28.11	3.80	1.30	138.86	
		1	12.30	3.80	0.40	18.70	157.56
							157.560
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	28.11	0.60	1.30	43.85	
		2	12.30	0.60	0.40	5.90	49.75
							49.750
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	28.11	1.86		52.28	52.28
							52.280
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	28.11			28.11	28.11
							28.110
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	28.11		0.99	55.66	55.66
							55.660
	ELEMENTO 02.2.2.7.2 BOQUILLAS O.T.D.L. 4.7						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	48.80	1.30		63.44	
		1	31.26	0.50		15.63	79.07
							79.070
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.66	0.60	0.50	1.10	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	6.54	0.60	0.50	1.96	
		1	4.81	0.60	0.50	1.44	
		1	2.39	0.60	0.50	0.72	5.22
							5.220

696.0010N1 m² FORRO DRENANTE POLIAMIDA

FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.

		1	3.660		1.840	6.734	
		1	6.540		1.840	12.034	
		1	4.810		1.840	8.850	
		1	2.390		1.840	4.398	32.016
							32.016

690.0040 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.

		1	3.66		1.39	5.09	
		1	6.54		1.39	9.09	
		1	4.81		1.39	6.69	
		1	2.39		1.39	3.32	24.19
							24.190

424.0028N1 m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm

TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.

		1	3.660			3.660	
		1	6.540			6.540	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	4.810			4.810	
		1	2.390			2.390	17.400
							17.400

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	A-1	1	3.66	0.40	1.39	2.03	
	A-2	1	6.54	0.40	1.39	3.64	
	A-3	1	4.81	0.40	1.39	2.67	
	A-4	1	2.39	0.40	1.39	1.33	
	Imposta	2	0.35	2.60	0.20	0.36	
	Timpano	2	2.18	2.60	0.30	3.40	13.43
							13.430

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	A-1	1	3.66	3.05	0.40	4.47	
	A-2	1	6.54	3.05	0.40	7.98	
	A-3	1	4.81	3.05	0.40	5.87	
	A-4	1	2.39	3.05	0.40	2.92	21.24
							21.240

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	A-1	1	3.66	3.05	0.10	1.12	
	A-2	1	6.54	3.05	0.10	1.99	
	A-3	1	4.81	3.05	0.10	1.47	
	A-4	1	2.39	3.05	0.10	0.73	5.31

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							5.310
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Solera	1	18.20	0.20		3.64	
		1	9.66	0.20		1.93	
	Rastrillo	1	0.30	8.50	1.00	2.55	
		1	0.30	7.10	1.00	2.13	10.25
							10.250
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.66		1.39	5.09	
	A-2	1	6.54		1.39	9.09	
	A-3	1	4.81		1.39	6.69	
	A-4	1	2.39		1.39	3.32	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	36.57
							36.570
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-1	1	3.66		2.19	8.02	
	A-2	1	6.54		2.19	14.32	
	A-3	1	4.81		2.19	10.53	
	A-4	1	2.39		2.19	5.23	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	50.48
							50.480
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	16	3.66	0.89			52.12
	Ø 12	16	3.66	0.89			52.12
	Ø 16	25	3.65	1.58			144.18
	Ø 12	25	3.65	0.89			81.21
	Ø 12	25	1.40	0.89			31.15
	Ø 12	13	1.20	0.89			13.88
	Ø 12	3	4.06	0.89			10.84
	Ø 12	3	4.06	0.89			10.84
	Ø 12	3	4.06	0.89			10.84
	A-2						
	Ø 12	16	6.54	0.89			93.13
	Ø 12	16	6.54	0.89			93.13
	Ø 16	44	3.65	1.58			253.75
	Ø 12	44	3.65	0.89			142.93
	Ø 12	44	1.40	0.89			54.82
	Ø 12	22	1.20	0.89			23.50
	Ø 12	3	6.94	0.89			18.53
	Ø 12	3	6.94	0.89			18.53
	Ø 12	3	6.94	0.89			18.53

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3						
	Ø 12	16	4.81	0.89		68.49	
	Ø 12	16	4.81	0.89		68.49	
	Ø 16	33	3.65	1.58		190.31	
	Ø 12	33	3.65	0.89		107.20	
	Ø 12	33	1.40	0.89		41.12	
	Ø 12	17	1.20	0.89		18.16	
	Ø 12	3	5.21	0.89		13.91	
	Ø 12	3	5.21	0.89		13.91	
	Ø 12	3	5.21	0.89		13.91	
	A-4						
	Ø 12	16	2.39	0.89		34.03	
	Ø 12	16	2.39	0.89		34.03	
	Ø 16	16	3.65	1.58		92.27	
	Ø 12	16	3.65	0.89		51.98	
	Ø 12	16	1.40	0.89		19.94	
	Ø 12	8	1.20	0.89		8.54	
	Ø 12	3	2.79	0.89		7.45	
	Ø 12	3	2.79	0.89		7.45	
	Ø 12	3	2.79	0.89		7.45	
	MUROS						
	A-1						
	Ø 12	13	1.79	0.89		20.71	
	Ø 12	25	1.79	0.89		39.83	
	Ø 12	10	3.66	0.89		32.57	
	Ø 12	10	3.66	0.89		32.57	
	A-2						
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	44	1.79	0.89		70.10	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	10	6.54	0.89		58.21	
	Ø 12	10	6.54	0.89		58.21	
	A-3						
	Ø 12	17	1.79	0.89		27.08	
	Ø 12	33	1.79	0.89		52.57	
	Ø 12	10	4.81	0.89		42.81	
	Ø 12	10	4.81	0.89		42.81	
	A-4						
	Ø 12	8	1.79	0.89		12.74	
	Ø 12	16	1.79	0.89		25.49	
	Ø 12	10	2.39	0.89		21.27	
	Ø 12	10	2.39	0.89		21.27	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	2.58	45.92	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	2,678.38
							2,678.380

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 02.2.2.8 O.T.D.L. 4.8.1 TUBO Ø 1.80 RAMAL A. ENLACE DA CASILLA						
	ELEMENTO 02.2.2.8.1 CUERPO DE OBRA O.T.D.L. 4.8.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	6.58	3.80	4.10	102.52	
		1	4.97	3.80	3.50	66.10	168.62
							168.620
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	6.58	0.60	4.10	32.37	
		2	4.97	0.60	3.50	20.87	53.24
							53.240
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	11.55	1.86		21.48	21.48
							21.480
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	11.55			11.55	11.55
							11.550
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	11.55		0.99	22.87	22.87
							22.870
	ELEMENTO 02.2.2.8.2 BOQUILLAS O.T.D.L. 4.8.1						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	18.00	3.50		63.00	
		1	24.23	4.80	2.60	302.39	365.39
							365.390
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	3.00	0.60	0.50	0.90	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.00	0.60	0.50	0.90	1.80
							1.800
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.000		1.840	5.520	
		1	3.000		1.840	5.520	11.040
							11.040
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.00		1.39	4.17	
		1	3.00		1.39	4.17	8.34
							8.340
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						
		1	3.000			3.000	
		1	3.000			3.000	6.000
							6.000
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
A-3		1	3.00	0.40	2.74	3.29	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-4	1	3.00	0.40	2.74	3.29	
	Imposta	2	0.35	2.60	0.20	0.36	
	Timpano	2	2.18	2.60	0.30	3.40	10.34
							10.340
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	A-3	1	3.00	1.90	0.40	2.28	
	A-4	1	3.00	1.90	0.40	2.28	4.56
							4.560
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	A-3	1	3.00	1.90	0.10	0.57	
	A-4	1	3.00	1.90	0.10	0.57	1.14
							1.140
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Rastrillo	1	0.30	2.70	1.00	0.81	
		1	0.30	8.00	1.00	2.40	3.21
							3.210
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		2.74	8.22	
	A-4	1	3.00		2.74	8.22	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	28.82
							28.820
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	A-3	1	3.00		2.74	8.22	
	A-4	1	3.00		2.74	8.22	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	28.82
							28.820
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-3						
	Ø 12	10	3.00	0.89		26.70	
	Ø 12	10	3.00	0.89		26.70	
	Ø 16	20	2.50	1.58		79.00	
	Ø 12	20	2.50	0.89		44.50	
	Ø 12	20	1.40	0.89		24.92	
	Ø 12	10	1.20	0.89		10.68	
	Ø 12	3	3.40	0.89		9.08	
	Ø 12	3	3.40	0.89		9.08	
	Ø 12	3	3.40	0.89		9.08	
	A-4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	10	3.00	0.89		26.70	
	Ø 12	10	3.00	0.89		26.70	
	Ø 16	20	2.50	1.58		79.00	
	Ø 12	20	2.50	0.89		44.50	
	Ø 12	20	1.40	0.89		24.92	
	Ø 12	10	1.20	0.89		10.68	
	Ø 12	3	3.40	0.89		9.08	
	Ø 12	3	3.40	0.89		9.08	
	Ø 12	3	3.40	0.89		9.08	
	MUROS						
	A-3						
	Ø 12	10	1.79	0.89		15.93	
	Ø 12	20	1.79	0.89		31.86	
	Ø 12	10	3.00	0.89		26.70	
	A-4						
	Ø 12	10	1.79	0.89		15.93	
	Ø 12	20	1.79	0.89		31.86	
	Ø 12	10	3.00	0.89		26.70	
	Ø 12	10	3.00	0.89		26.70	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	2.58	45.92	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	844.28
							844.280
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		1	2.20	3.00	1.00	6.60	6.60
							6.600
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	8.000	5.000		40.000	40.000
							40.000
	ELEMENTO 02.2.2.8.3 POZO DE ENTRADA						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	2.10	3.90	3.80	31.12	31.12
							31.120
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		2	2.10	0.60	4.00	10.08	10.08
							10.080

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	2.10	2.70	0.30	1.70	
		1	0.30	2.70	0.10	0.08	
		1	0.30	2.70	4.20	3.40	
		1	0.30	2.70	1.76	1.43	
		2	1.50	0.30	4.00	3.60	10.21
							10.210
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	0.38	0.30	2.10	0.24	0.24
							0.240
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.10	0.10		0.21	
		1	2.10	4.20		8.82	
		1	2.10	1.76		3.70	
		2	1.50	4.00		12.00	24.73
							24.730
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		1	2.70	0.40		1.08	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		2.70	4.50	12.15	
		1		2.70	1.76	4.75	
		2		2.10	4.30	18.06	36.04
							36.040

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

10	2.90	0.89	25.81		
18	1.70	0.89	27.23		
14	4.10	0.89	51.09		
18	2.90	0.89	46.46		
2	2.70	0.89	4.81		
58	2.70	0.89	139.37		
36	4.50	0.89	144.18		
24	2.70	0.89	57.67		
18	4.42	0.89	70.81		
108	1.50	0.89	144.18		
40	4.30	0.89	153.08	864.69	
					864.690

418.0010 ud PATE DE ACERO REVESTIDO CON POLIPROPILENO

PATE DE ACERO REVESTIDO CON POLIPROPILENO

15			15.00	15.00	
					15.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

SUBAPARTADO 02.2.2.9 O.T.D.L. 4.8.2 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA

ELEMENTO 02.2.2.9.1 CUERPO DE OBRA O.T.D.L. 4.8.2

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

1	8.37	3.80	1.80	57.25	
1	7.90	3.80	1.80	54.04	111.29
					111.290

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

2	8.37	0.60	1.80	18.08	
2	7.90	0.60	1.80	17.06	35.14
					35.140

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

1	16.27	1.86		30.26	30.26
					30.260

414.0240 m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180

TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	16.27			16.27	16.27
							16.270
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		2	16.27		0.99	32.21	32.21
							32.210
	ELEMENTO 02.2.2.9.2 BOQUILLAS O.T.D.L. 4.8.2						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	21.40	1.80		38.52	
		1	36.90	1.80		66.42	
		1	3.80	8.60	1.50	49.02	
		1	11.00	6.30	1.20	83.16	237.12
							237.120
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.20	0.60	0.50	0.96	
		1	3.20	0.60	0.50	0.96	
		1	3.40	0.60	0.50	1.02	
		1	4.55	0.60	0.50	1.37	4.31
							4.310
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
		1	3.200		1.840	5.888	
		1	3.200		1.840	5.888	
		1	3.400		1.840	6.256	
		1	4.550		1.840	8.372	26.404
							26.404
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						
		1	3.20		1.39	4.45	
		1	3.20		1.39	4.45	
		1	3.40		1.39	4.73	
		1	4.55		1.39	6.32	19.95
							19.950
424.0028N1	m TUBO DE PVC RANURADO DE DIÁMETRO 200 mm						
	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.200			3.200	
		1	3.200			3.200	
		1	3.400			3.400	
		1	4.550			4.550	14.350
							14.350

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

A-1	1	3.20	0.40	1.39	1.78	
A-2	1	3.20	0.40	1.39	1.78	
A-3	1	3.40	0.40	1.39	1.89	
A-4	1	4.55	0.40	1.39	2.53	
Imposta	2	0.35	2.60	0.20	0.36	
Timpano	2	2.18	2.60	0.30	3.40	11.74
						11.740

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

A-1	1	3.20	3.05	0.40	3.90	
A-2	1	3.20	3.05	0.40	3.90	
A-3	1	3.40	3.05	0.40	4.15	
A-4	1	4.55	3.05	0.40	5.55	17.50
						17.500

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

A-1	1	3.20	3.05	0.10	0.98	
A-2	1	3.20	3.05	0.10	0.98	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3	1	3.40	3.05	0.10	1.04	
	A-4	1	4.55	3.05	0.10	1.39	4.39
							4.390

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

Solera	1	2.20	0.20		0.44	
	1	13.05	0.20		2.61	
Rastrillo	1	0.30	8.50	1.00	2.55	
	1	0.30	8.20	1.00	2.46	8.06
						8.060

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

A-1	1	3.20		1.39	4.45	
A-2	1	3.20		1.39	4.45	
A-3	1	3.40		1.39	4.73	
A-4	1	4.55		1.39	6.32	
Imposta	2		2.60	0.20	1.04	
Timpano	2		2.60	2.18	11.34	32.33
						32.330

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

A-1	1	3.20		2.19	7.01	
A-2	1	3.20		2.19	7.01	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A-3	1	3.40		2.19	7.45	
	A-4	1	4.55		2.19	9.96	
	Imposta	2		2.60	0.20	1.04	
	Timpano	2		2.60	2.18	11.34	43.81
							43.810
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMIENTOS						
	A-1						
	Ø 12	16	3.20	0.89		45.57	
	Ø 10	16	3.20	0.62		31.74	
	Ø 16	22	3.65	1.58		126.87	
	Ø 12	22	3.65	0.89		71.47	
	Ø 12	22	1.40	0.89		27.41	
	Ø 12	11	1.20	0.89		11.75	
	Ø 12	3	3.60	0.89		9.61	
	Ø 12	3	3.60	0.89		9.61	
	Ø 12	3	3.60	0.89		9.61	
	A-2						
	Ø 12	16	3.20	0.89		45.57	
	Ø 10	16	3.20	0.62		31.74	
	Ø 16	22	3.65	1.58		126.87	
	Ø 12	22	3.65	0.89		71.47	
	Ø 12	22	1.40	0.89		27.41	
	Ø 12	11	1.20	0.89		11.75	
	Ø 12	3	3.60	0.89		9.61	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	3	3.60	0.89		9.61	
	Ø 12	3	3.60	0.89		9.61	
	A-3						
	Ø 12	16	3.40	0.89		48.42	
	Ø 10	16	3.40	0.62		33.73	
	Ø 16	23	3.65	1.58		132.64	
	Ø 12	23	3.65	0.89		74.72	
	Ø 12	23	1.40	0.89		28.66	
	Ø 12	12	1.20	0.89		12.82	
	Ø 12	3	3.80	0.89		10.15	
	Ø 12	3	3.80	0.89		10.15	
	Ø 12	3	3.80	0.89		10.15	
	A-4						
	Ø 12	16	4.55	0.89		64.79	
	Ø 10	16	4.55	0.62		45.14	
	Ø 16	31	3.65	1.58		178.78	
	Ø 12	31	3.65	0.89		100.70	
	Ø 12	31	1.40	0.89		38.63	
	Ø 12	16	1.20	0.89		17.09	
	Ø 12	3	4.95	0.89		13.22	
	Ø 12	3	4.95	0.89		13.22	
	Ø 12	3	4.95	0.89		13.22	
	MUROS						
	A-1						
	Ø 12	11	1.79	0.89		17.52	
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	10	3.20	0.89		28.48	
	Ø 12	10	3.20	0.89		28.48	
	A-2						
	Ø 12	11	1.79	0.89		17.52	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ø 12	22	1.79	0.89		35.05	
	Ø 12	10	3.20	0.89		28.48	
	Ø 12	10	3.20	0.89		28.48	
	A-3						
	Ø 12	12	1.79	0.89		19.12	
	Ø 12	23	1.79	0.89		36.64	
	Ø 12	10	3.40	0.89		30.26	
	Ø 12	10	3.40	0.89		30.26	
	A-4						
	Ø 12	16	1.79	0.89		25.49	
	Ø 12	31	1.79	0.89		49.39	
	Ø 12	10	4.55	0.89		40.50	
	Ø 12	10	4.55	0.89		40.50	
	IMPOSTA						
	Ø 12	16	2.60	0.89		37.02	
	Ø 12	26	1.40	0.89		32.40	
	TIMPANO						
	Ø 12	4	5.00	0.89	2.58	45.92	
		2	5.65	0.89		10.06	
		16	2.60	0.89		37.02	2,187.15
							2,187.150

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

1	8.50	4.20	1.00	35.70		
1	2.20	3.00	1.00	6.60	42.30	
						42.300

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTAL-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FIL-TRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	8.500	6.200		52.700	
		1	8.200	5.000		41.000	93.700
							93.700

SUBAPARTADO 02.2.2.10 PROTECCIONES DE ESCOLLERA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANS-PORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

En taludes						
ENLACE DA CASILLA						
Ramal B						
0+310 - 0+350 MD	1	40.00	3.80	2.00	304.00	
0+365 - 0+375 MD	1	10.00	3.80	2.00	76.00	
TRONCO						
11+340 - 11+345 MD	1	5.00	3.80	2.00	38.00	
11+360 - 11+415 MD	1	55.00	3.80	2.00	418.00	836.00
						836.000

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALU-DES (EN SU CASO).

En taludes

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENLACE DA CASILLA						
	Ramal B						
	0+310 - 0+350 MD	1	40.00	4.25	1.00	170.00	
	0+365 - 0+375 MD	1	10.00	4.25	1.00	42.50	
	TRONCO						
	11+340 - 11+345 MD	1	5.00	4.25	1.00	21.25	
	11+360 - 11+415 MD	1	55.00	4.25	1.00	233.75	467.50
							467.500

658.0010 m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

	En taludes						
	ENLACE DA CASILLA						
	Ramal B						
	0+310 - 0+350 MD	1	40.00	4.70	1.00	188.00	
	0+365 - 0+375 MD	1	10.00	5.50	1.00	55.00	
	TRONCO						
	11+340 - 11+345 MD	1	5.00	5.50	1.00	27.50	
	11+360 - 11+415 MD	1	55.00	5.50	1.00	302.50	573.00
							573.000

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

	En taludes						
	ENLACE DA CASILLA						
	Ramal B						
	0+310 - 0+350 MD	1	40.000		9.900	396.000	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	0+365 - 0+375 MD	1	10.000		10.700	107.000	
	TRONCO						
	11+340 - 11+345 MD	1	5.000		10.700	53.500	
	11+360 - 11+415 MD	1	55.000		10.700	588.500	1,145.000
							1,145.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 03 FIRMES Y PAVIMENTOS						
	SUBCAPÍTULO 03.1 TRONCO						
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	S/ Med Aux						
	TRONCO	0.1	13,055.10			1,305.51	
	PASOS DE MEDIANA	0.1	120.00			12.00	1,317.51
							1,317.510
211.0020	t BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70						
	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70						
	S/Med aux						
	TRONCO						
	MBC AC22 bin S	278.29				278.29	
	MBC AC32 base G	321.62				321.62	
	PASOS DE MEDIANA						
	MBC AC22 bin S	2.95				2.95	
	MBC AC32 base G	4.05				4.05	606.91
							606.910
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	S/Med aux						
	TRONCO						
	MBC Discontinua BBTM 11B	174.11				174.11	
	PASOS DE MEDIANA						
	MBC Discontinua BBTM 11B	1.87				1.87	175.98

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							175.980
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	S/Med aux						
	TRONCO	6,075.50				6,075.50	6,075.50
							6,075.500
510.0010	m³ ZAHORRA						
	ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.						
	S/Med aux						
	TRONCO	1,980.40				1,980.40	1,980.40
							1,980.400
513.0010	m³ SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	S/Med aux						
	TRONCO	13,055.10				13,055.10	
	PASOS DE MEDIANA	120.00				120.00	13,175.10
							13,175.100
530.0010	t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO						
	ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med aux						
	TRONCO		629.24			629.24	
	PASOS DE MEDIANA		5.40			5.40	634.64
							634.640
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO					
		EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.					
	S/Med aux						
	TRONCO		104.92			104.92	
	PASOS DE MEDIANA		1.08			1.08	106.00
							106.000
531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA					
		EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.					
	S/med aux						
	TRONCO		44.79			44.79	
	PASOS DE MEDIANA		0.48			0.48	45.27
							45.270
542.0050	t	MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL					
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.					
	S/Med aux						
	TRONCO		6,957.13			6,957.13	
	PASOS DE MEDIANA		73.80			73.80	7,030.93
							7,030.930
542.0100	t	MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL					
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.					

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/med aux						
	TRONCO		8,040.48			8,040.48	
	PASOS DE MEDIANA		101.22			101.22	8,141.70
							8,141.700
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL					
		MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.					
	S/med aux						
	TRONCO		55,720.00			55,720.00	
	PASOS DE MEDIANA		600.00			600.00	56,320.00
							56,320.000
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN					
		CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.					
	S/med aux						
	TRONCO						
	MBC Discontinua BBTM 11B		208.94			208.94	
	MBC AC22 bin S		306.11			306.11	
	MBC AC32 base G		321.62			321.62	
	PASOS DE MEDIANA						
	MBC Discontinua BBTM 11B		2.25			2.25	
	MBC AC22 bin S		3.25			3.25	
	MBC AC32 base G		4.05			4.05	846.22
							846.220
550.0010	m³	PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-4,5 (i/ ARMADURA)					
		PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-45 TOTALMENTE TERMINADO, P.P. ARMADURA, JUNTAS Y CURADO CON PRODUCTO FILMÓGENO.					

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CALZADA DERECHA	1	859.00	12.50	0.23	2,469.63	
	ZONA DE ANCLAJES	1	61.00	12.50	0.23	175.38	
		12	0.65	12.50	0.90	87.75	
	CALZADA IZQUIERDA	1	852.00	12.50	0.23	2,449.50	
	ZONA DE ANCLAJES	1	61.00	12.50	0.23	175.38	
		12	0.65	12.50	0.90	87.75	5,445.39
							5,445.390

551.0010 m³ HORMIGÓN MAGRO EN BASE DE FIRME

HORMIGÓN MAGRO VIBRADO EN BASE DE FIRME, COMPLETAMENTE TERMINADO I/ CURADO

	CALZADA DERECHA	1	859.00	12.50	0.15	1,610.63	
	ZONA DE ANCLAJES	1	61.00	12.50	0.15	114.38	
	CALZADA IZQUIERDA	1	852.00	12.50	0.15	1,597.50	
	ZONA DE ANCLAJES	1	61.00	12.50	0.15	114.38	3,436.89
							3,436.890

551.0020N1 m² ACABADO FINAL DEL PAVIMENTO

ACABADO FINAL (DENUDADO) DE PAVIMENTO CONSISTENTE EN APLICACIÓN DE RETARDADOR DE FRAGUADO Y LÁMINA DE PLÁSTICO EN SUPERFICIE DEL HORMIGÓN DE PAVIMENTO, PARA POSTERIOR BARRIDO Y LAVADO CON AGUA Y EXTENSIÓN DE CAPA FILMÓGENA DE CURADO

	CALZADA DERECHA	1	859.000	12.500		10,737.500	
	ZONA DE ANCLAJES	1	61.000	12.500		762.500	
	CALZADA IZQUIERDA	1	852.000	12.500		10,650.000	
	ZONA DE ANCLAJES	1	61.000	12.500		762.500	22,912.500
							22,912.500

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 03.2 ENLACES						
	APARTADO 03.2.1 ENLACE DA CASILLA						
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	S/Med aux	0.10	1,535.70			153.57	153.57
							153.570
211.0020	t BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70						
	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70						
	S/med aux						
	MBC AC22 bin S						
	ENLACE DA CASILLA RAMAL A	9.27				9.27	
	ENLACE DA CASILLA RAMAL B	16.68				16.68	
	MBC AC32 base G						
	ENLACE DA CASILLA RAMAL A	9.04				9.04	
	ENLACE DA CASILLA RAMAL B	18.14				18.14	53.13
							53.130
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A	5.75				5.75	
	ENLACE DA CASILLA RAMAL B	10.36				10.36	16.11
							16.110
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA						
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	NON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		56.10			56.10	
	ENLACE DA CASILLA RAMAL B		79.30			79.30	135.40
							135.400
510.0010	m³ ZAHORRA ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		129.50			129.50	
	ENLACE DA CASILLA RAMAL B		184.50			184.50	314.00
							314.000
513.0010	m³ SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		519.00			519.00	
	ENLACE DA CASILLA RAMAL B		1,016.70			1,016.70	1,535.70
							1,535.700
530.0010	t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		25.14			25.14	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENLACE DA CASILLA RAMAL B		41.99			41.99	67.13
							67.130
531.0020	t EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		3.63			3.63	
	ENLACE DA CASILLA RAMAL B		6.48			6.48	10.11
							10.110
531.0040	t EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		1.48			1.48	
	ENLACE DA CASILLA RAMAL B		2.67			2.67	4.15
							4.150
542.0050	t MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		231.73			231.73	
	ENLACE DA CASILLA RAMAL B		416.97			416.97	648.70
							648.700
542.0100	t MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/med Aux						
	ENLACE DA CASILLA RAMAL A		226.06			226.06	
	ENLACE DA CASILLA RAMAL B		453.56			453.56	679.62
							679.620

542.0110 t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN

CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.

	S/med aux						
	MBC Discontinua BBTM 11B						
	ENLACE DA CASILLA RAMAL A		6.90			6.90	
	ENLACE DA CASILLA RAMAL B		12.44			12.44	
	MBC AC22 bin S						
	ENLACE DA CASILLA RAMAL A		10.20			10.20	
	ENLACE DA CASILLA RAMAL B		18.35			18.35	
	MBC AC32 base G						
	ENLACE DA CASILLA RAMAL A		9.04			9.04	
	ENLACE DA CASILLA RAMAL B		18.14			18.14	75.07
							75.070

543.0020 m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL

MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.

	S/med Aux						
	ENLACE DA CASILLA RAMAL A		1,840.00			1,840.00	
	ENLACE DA CASILLA RAMAL B		3,316.67			3,316.67	5,156.67
							5,156.670

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 03.3 CAMINOS DE SERVICIO-AGRÍCOLAS						
510.0010	m³ ZAHORRA						
	ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.						
	S/med aux						
	REPOSICIÓN DE CAMINO EN P.K. 1+830		274.70			274.70	
	REPOSICIÓN DE CAMINO EN P.K. 2+120		371.60			371.60	
	REPOSICIÓN DE CAMINO EN P.K. 3+430		487.40			487.40	
	REPOSICIÓN DEL CAMINO DE SANTIAGO		925.50			925.50	
	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280		776.00			776.00	
	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA		453.60			453.60	3,288.80
							3,288.800

530.0010 t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO

ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.

	S/med aux						
	REPOSICIÓN DE CAMINO EN P.K. 1+830		8.67			8.67	
	REPOSICIÓN DE CAMINO EN P.K. 2+120		12.93			12.93	
	REPOSICIÓN DE CAMINO EN P.K. 3+430		15.42			15.42	
	REPOSICIÓN DEL CAMINO DE SANTIAGO		28.76			28.76	
	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280		24.23			24.23	
	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA		14.37			14.37	104.38
							104.380

530.0020 t EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN

EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TER-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MINADO.						
	S/med aux						
	REPOSICIÓN DE CAMINO EN P.K. 1+830		1.45			1.45	
	REPOSICIÓN DE CAMINO EN P.K. 2+120		2.15			2.15	
	REPOSICIÓN DE CAMINO EN P.K. 3+430		2.57			2.57	
	REPOSICIÓN DEL CAMINO DE SANTIAGO		4.79			4.79	
	CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280		4.04			4.04	
	CAMINO PARALELO RAMAL A ENLACE DE CASTILLA		2.40			2.40	17.40
							17.400

533.0020 m² DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG

DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.

REPOSICIÓN DE CAMINO EN P.K. 1+830	188.20	5.00	941.00			
REPOSICIÓN DE CAMINO EN P.K. 2+120	222.52	5.00	1,112.60			
REPOSICIÓN DE CAMINO EN P.K. 3+430	386.78	5.00	1,933.90			
REPOSICIÓN DEL CAMINO DE SANTIAGO	381.78	5.00	1,908.90			
CAMINO PARALELO M.I. DE P.K. 2+500 A P.K. 3+280	804.10	5.00	4,020.50			
CAMINO PARALELO RAMAL A ENLACE DE CASTILLA	281.19	5.00	1,405.95	11,322.85		
				11,322.850		

571.0010N1 m² PAVIMENTO LOSETA HIDRÁULICA

PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.

REPOSICIÓN CAMINO SANTIAGO	2	500.95	2.00	2,003.80	2,003.80	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,003.800

999.0321N1 ud PILONA DE FUNDICIÓN FUSTE FINO 1,00 m

SUMINISTRO Y COLOCACIÓN DE BOLARDO MACIZO DE FUNDICIÓN, DE 1,0 M DE ALTURA LIBRE, DE FORMA CILÍNDRICA D=0,1 M, CON BASE RESALTADA Y REFORZADA, COLOCADO EN ÁREAS PAVIMENTADAS, REMATES DE PAVIMENTO Y LIMPIEZA, TERMINADO

2	251.000		502.000	502.000	
					502.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 04 TÚNEL DE EIROAS						
	SUBCAPÍTULO 04.1 OBRA CIVIL						
	APARTADO 04.1.1 TÚNEL CALZADA DERECHA						
	SUBAPARTADO 04.1.1.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN COMPLEMENTARIA EN EMBOQUILLES						
342.0230	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 mm DE DIÁMETRO	m					
	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.						
	EMBOQUILLE OESTE		162.00			162.00	
	EMBOQUILLE ESTE		162.00			162.00	324.00
							324.000
600.0010	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS	kg					
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	EMBOQUILLE OESTE		909.32			909.32	
	EMBOQUILLE ESTE		909.32			909.32	1,818.64
							1,818.640
610.0070	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS	m³					
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	EMBOQUILLE OESTE		6.46			6.46	
	EMBOQUILLE ESTE		6.46			6.46	12.92
							12.920
803.0350	CERCHA DE TIPO HEB-160	m					
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EMBOQUILLE OESTE		221.99			221.99	
	EMBOQUILLE ESTE		158.56			158.56	380.55
							380.550
803.0420	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS	m³					
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
	EMBOQUILLE OESTE		38.05			38.05	
	EMBOQUILLE ESTE		30.17			30.17	68.22
							68.220
803.0620	CHAPA NERVADA O TROQUELADA 2 mm Y 9 ONDAS POR PANEL EN VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES	m²					
	CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.						
	EMBOQUILLE OESTE		190.27			190.27	
	EMBOQUILLE ESTE		150.85			150.85	341.12
							341.120
	SUBAPARTADO 04.1.1.2 EXCAVACIÓN						
	ELEMENTO 04.1.1.2.1 SECCIÓN TIPO S-1						
802.0010	EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA	m³					
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	82.50	75.40		6,220.50	6,220.50
							6,220.500
802.0020	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA					
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65.					
		(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).					
		1	82.50	59.96		4,946.70	4,946.70
							4,946.700
		ELEMENTO 04.1.1.2.2 SECCIÓN TIPO S-2					
802.0030	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA					
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65.					
		(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).					
		1	124.45	76.58		9,530.38	9,530.38
							9,530.380
802.0040	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA					
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65.					

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).						
		1	124.45	60.32		7,506.82	7,506.82
							7,506.820
	ELEMENTO 04.1.1.2.3 SECCIÓN TIPO S-3						
802.0050	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).						
		1	249.65	77.71		19,400.30	19,400.30
							19,400.300
802.0060	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).						
		1	249.65	88.63		22,126.48	22,126.48
							22,126.480
	ELEMENTO 04.1.1.2.4 SECCIÓN TIPO S-4						
802.0150	m³ EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).						
		1	180.00	89.21		16,057.80	16,057.80
							16,057.800
802.0160	m³ EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS						
	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).						
		1	180.00	93.71		16,867.80	16,867.80
							16,867.800
	ELEMENTO 04.1.1.2.5 SECCIÓN TIPO S-E						
802.0180	m³ EXCAVACIÓN DE TÚNEL AVANCE, EN BOQUILLAS						
	EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
		1	40.00	81.79		3,271.60	3,271.60
							3,271.600
802.0190	m³ EXCAVACIÓN DE TÚNEL DESTROZA, EN BOQUILLAS						
	EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	40.00	90.90		3,636.00	3,636.00
							3,636.000
	SUBAPARTADO 04.1.1.3 SOSTENIMIENTO						
	ELEMENTO 04.1.1.3.1 SECCIÓN TIPO S-1						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	82.50	30.00		2,475.00	2,475.00
							2,475.000
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	82.50	2.99		246.68	246.68
							246.680
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	82.50	59.82		4,935.15	
							4,935.15
							4,935.150
	ELEMENTO 04.1.1.3.2 SECCIÓN TIPO S-2						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
			124.45	56.00		6,969.20	6,969.20
							6,969.200
803.0330	m CERCHA DE TIPO TH-29						
	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	124.45	19.94		2,481.53	2,481.53
							2,481.530
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	124.45	9.07		1,128.76	1,128.76
							1,128.760
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	124.45	181.30		22,562.79	
							22,562.79
							22,562.790
	ELEMENTO 04.1.1.3.3 SECCIÓN TIPO S-3						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	249.65	120.00		29,958.00	29,958.00
							29,958.000
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	249.65	11.43		2,853.50	2,853.50
							2,853.500
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	249.65	228.52		57,050.02	
							57,050.02
							57,050.020
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	249.65	31.27		7,806.56	7,806.56
							7,806.560
803.0330	m CERCHA DE TIPO TH-29						
	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	249.65	31.27		7,806.56	7,806.56
							7,806.560
	ELEMENTO 04.1.1.3.4 SECCIÓN TIPO S-4						
803.0580	m MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN						
	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYEC-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CIÓN DE LECHADA DE CEMENTO.						
		1	180.00	62.73		11,291.40	11,291.40
							11,291.400
803.0350	m CERCHA DE TIPO HEB-160						
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	180.00	95.75		17,235.00	17,235.00
							17,235.000
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	180.00	20.65		3,717.00	3,717.00
							3,717.000
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	180.00	378.56		68,140.80	
							68,140.80
							68,140.800
803.0220	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	180.00	17.84		3,211.20	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
						3,211.20	
							3,211.200
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	180.00	30.04		5,407.20	5,407.20
							5,407.200
	ELEMENTO 04.1.1.3.5 SECCIÓN TIPO S-E						
803.0580	m MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN						
	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.						
		1	40.00	49.00		1,960.00	1,960.00
							1,960.000
803.0350	m CERCHA DE TIPO HEB-160						
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	40.00	88.08		3,523.20	3,523.20
							3,523.200
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	40.00	17.14		685.60	685.60
							685.600

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	40.00	342.84		13,713.60	
							13,713.60
							13,713.600
803.0220	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	40.00	17.88		715.20	
							715.20
							715.200
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	40.00	26.16		1,046.40	1,046.40
							1,046.400

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.1.4 TRATAMIENTOS ESPECIALES						
803.0150	m BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 mm DE DIÁMETRO						
	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	5,217.90			5,217.90	5,217.90
							5,217.900
803.0100	m BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm						
	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	357.00			357.00	357.00
							357.000
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	128.90			128.90	128.90
							128.900
803.0510	m DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE						
	DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.						
		1	13,520.00			13,520.00	13,520.00
							13,520.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPAS DE NIVELACIÓN.						
		1	54.000			54.000	54.000
							54.000
803.0490	m³ HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL						
	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.						
		1	680.65			680.65	680.65
							680.650
804.0200	m³ INYECCIÓN MORTERO DE CEMENTO EN HUECOS EN TRASDÓS REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	27.00			27.00	27.00
							27.000
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
			30,629.25			30,629.25	30,629.25
							30,629.250

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.1.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA.						
	ELEMENTO 04.1.1.5.1 SECCIÓN TIPO S-1						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	82.50	8.83		728.48	728.48
							728.480
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	82.50	3.02		249.15	249.15
							249.150
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	82.50	2.45		202.13	202.13
							202.130
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	82.50	27.27		2,249.78	2,249.78
							2,249.780
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	82.50	27.70		2,285.25	2,285.25
							2,285.250

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	82.50		4.51	372.08	372.08
							372.080
	ELEMENTO 04.1.1.5.2 SECCIÓN TIPO S-2						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	124.45		8.83	1,098.89	1,098.89
							1,098.890
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	124.45		3.02	375.84	
							375.84
							375.840
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	124.45		2.45	304.90	304.90
							304.900
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	124.45		17.66	2,197.79	
							2,197.79

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,197.790
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	124.45	27.70		3,447.27	
							3,447.27
							3,447.270
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	124.45	4.51		561.27	
							561.27
							561.270
	ELEMENTO 04.1.1.5.3 SECCIÓN TIPO S-3						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	249.65	8.83		2,204.41	2,204.41
							2,204.410
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	249.65	4.85		1,210.80	1,210.80
							1,210.800
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	249.65	6.80		1,697.62	1,697.62
							1,697.620
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	249.65	27.70		6,915.31	6,915.31
							6,915.310
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	249.65	5.59		1,395.54	1,395.54
							1,395.540
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	249.65	17.66		4,408.82	4,408.82
							4,408.820
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	249.650	22.710		5,669.552	5,669.552
							5,669.552
	ELEMENTO 04.1.1.5.4 SECCIÓN TIPO S-4						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	180.00	8.83		1,589.40	1,589.40
							1,589.400
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	180.00	4.85		873.00	873.00
							873.000
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						
		1	180.00	6.80		1,224.00	1,224.00
							1,224.000
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	180.00	27.70		4,986.00	4,986.00
							4,986.000
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	180.00	5.59		1,006.20	1,006.20
							1,006.200
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	180.00	17.66		3,178.80	3,178.80

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							3,178.800
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	180.000	22.710		4,087.800	4,087.800
							4,087.800
	ELEMENTO 04.1.1.5.5 SECCIÓN TIPO S-E						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	40.00	8.83		353.20	353.20
							353.200
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	40.00	4.85		194.00	194.00
							194.000
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						
		1	40.00	6.80		272.00	272.00
							272.000
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	40.00	27.70		1,108.00	1,108.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1,108.000
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	40.00	5.59		223.60	223.60
							223.600
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	40.00	17.66		706.40	706.40
							706.400
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	40.000	22.710		908.400	908.400
							908.400
	SUBAPARTADO 04.1.1.6 ACABADOS						
	ELEMENTO 04.1.1.6.1 SECCIÓN S-1						
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	82.500	5.980		493.350	493.350
							493.350
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO.						
			82.500	6.000		495.000	495.000
							495.000
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux	2	82.50			165.00	165.00
							165.000
	ELEMENTO 04.1.1.6.2 SECCIÓN S-2						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			124.450	6.000		746.700	746.700
							746.700
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	124.450	5.980		744.211	744.211
							744.211
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/med Aux	2	124.45			248.90	248.90
							248.900
	ELEMENTO 04.1.1.6.3 SECCIÓN S-3						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			249.650	6.000		1,497.900	1,497.900
							1,497.900
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	249.650	4.320		1,078.488	1,078.488
							1,078.488
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/med Aux	2	249.65			499.30	499.30
							499.300
	ELEMENTO 04.1.1.6.4 SECCIÓN S-4						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			180.000	6.000		1,080.000	1,080.000
							1,080.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	180.000	4.320		777.600	777.600
							777.600
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aix	2	180.00			360.00	360.00
							360.000
	ELEMENTO 04.1.1.6.5 SECCIÓN S-E						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			40.000	6.000		240.000	240.000
							240.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	40.000	4.320		172.800	172.800
							172.800
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux	2	40.00			80.00	80.00
							80.000
	SUBAPARTADO 04.1.1.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS						
	ELEMENTO 04.1.1.7.1 SECCIÓN S-1						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
			82.50	29.75		2,454.38	2,454.38
							2,454.380
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	82.500	29.750		2,454.375	2,454.375
							2,454.375
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	82.50	29.75		2,454.38	
							2,454.38
							2,454.380
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			82.500	2.000		165.000	165.000
							165.000
	ELEMENTO 04.1.1.7.2 SECCIÓN S-2						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	124.45	29.75		3,702.39	
							3,702.39
							3,702.390
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	124.450	29.750		3,702.388	3,702.388
							3,702.388
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	124.45	29.75		3,702.39	
							3,702.39
							3,702.390
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			124.450	2.000		248.900	248.900
							248.900
	ELEMENTO 04.1.1.7.3 SECCIÓN S-3						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	249.65	30.81		7,691.72	
							7,691.72
							7,691.720
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	249.650	30.810		7,691.717	7,691.717
							7,691.717
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	249.65	30.81		7,691.72	
							7,691.72
							7,691.720
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			249.650	2.000		499.300	499.300
							499.300
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
			249.650	0.100		24.965	24.965
							24.965
	ELEMENTO 04.1.1.7.4 SECCIÓN S-4						
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	180.000	30.840		5,551.200	5,551.200
							5,551.200
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	180.00	30.84		5,551.20	5,551.20
							5,551.200
805.0013N1	m² LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD						
	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.						
			180.000	12.340		2,221.200	2,221.200
							2,221.200
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	180.00	30.84		5,551.20	5,551.20
							5,551.200
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			180.000	2.000		360.000	360.000
							360.000
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
			180.000	0.100		18.000	18.000
							18.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 04.1.1.7.5 SECCIÓN S-E						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	40.00	30.81		1,232.40	
							1,232.40
							1,232.400
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	40.000	30.810	1,232.400	1,232.400	
							1,232.400
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	40.00	30.81	1,232.40	1,232.40	
							1,232.400
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			40.000	2.000	80.000	80.000	
							80.000
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
			40.000	0.100		4.000	4.000
							4.000
	SUBAPARTADO 04.1.1.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO						
	ELEMENTO 04.1.1.8.1 SECCIÓN S-1						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	82.50	0.05		4.13	4.13
							4.130
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	82.50	0.13		10.73	10.73
							10.730
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	82.50	0.13		10.73	10.73
							10.730
	ELEMENTO 04.1.1.8.2 SECCIÓN S-2						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	124.45	0.05		6.22	6.22
							6.220
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	124.45	0.17		21.16	21.16
							21.160
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	124.45	0.17		21.16	21.16
							21.160
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
			124.45	0.05		6.22	6.22
							6.220
	ELEMENTO 04.1.1.8.3 SECCIÓN S-3						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	249.65	0.10		24.97	24.97
							24.970
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	249.65	0.20		49.93	49.93
							49.930
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	249.65	0.20		49.93	49.93
							49.930
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
		1	249.65	0.09		22.47	22.47
							22.470
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
			249.65	0.20		49.93	49.93
							49.930
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
		1	249.650	0.013		3.245	3.245
							3.245
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	249.650	0.093		23.217	23.217
							23.217
	ELEMENTO 04.1.1.8.4 SECCIÓN S-4						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	180.00	0.20		36.00	36.00
							36.000
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	180.00	0.25		45.00	45.00
							45.000
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	180.00	0.25		45.00	45.00
							45.000
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
		1	180.00	0.35		63.00	63.00
							63.000
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
			180.00	0.30		54.00	54.00
							54.000
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
		1	180.000	0.050		9.000	9.000
							9.000
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
		1	180.000	0.350		63.000	63.000
							63.000
807.0054N1	ud EXTENSÓMETRO DE TRES VARILLAS						
	EXTENSÓMETRO DE TRES VARILLAS.						
		1	180.000	0.150		27.000	27.000
							27.000
	ELEMENTO 04.1.1.8.5 SECCIÓN S-E						
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	40.00	0.25		10.00	10.00
							10.000
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	40.00	0.25		10.00	10.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							10.000
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
		1	40.00	0.35		14.00	14.00
							14.000
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
		1	40.000	0.050		2.000	2.000
							2.000
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
		1	40.000	0.350		14.000	14.000
							14.000
	ELEMENTO 04.1.1.8.6 OTROS CONTROLES						
807.0056N1	m CABLE APANTALLADO PARA AUSCULTACIÓN						
	CABLE APANTALLADO PARA AUSCULTACIÓN.						
		1	700.000			700.000	700.000
							700.000
306.0230	m TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm						
	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.						
		60				60.00	60.00
							60.000
306.0250	ud INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO						
	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2				2.00	2.00
							2.000
807.0057N1	ud REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS						
	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS.						
		10				10.000	10.000
							10.000
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		4				4.00	4.00
							4.000
807.0058N1	ud REGISTRO SISMOGRÁFICO DE VIBRACIONES						
	REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.						
		1				1.000	1.000
							1.000
807.0059N1	ud ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS						
	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.						
		1				1.000	1.000
							1.000
807.0060N1	mes AUSCULTACIÓN Y CONTROL DE TÚNELES						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.						
		12				12.000	12.000
							12.000
	APARTADO 04.1.2 TÚNEL CALZADA IZQUIERDA						
	SUBAPARTADO 04.1.2.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN COMPLEMENTARIA EN EMBOQUILLES						
342.0230	m BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 mm DE DIÁMETRO						
	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.						
	EMBOQUILLE OESTE	1	162.00			162.00	
	EMBOQUILLE ESTE	1	156.00			156.00	318.00
							318.000
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	EMBOQUILLE OESTE	1	6.46			6.46	
	EMBOQUILLE ESTE	1	6.46			6.46	12.92
							12.920
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	EMBOQUILLE OESTE	1	909.32			909.32	
	EMBOQUILLE ESTE	1	909.32			909.32	1,818.64

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1,818.640
803.0350	m CERCHA DE TIPO HEB-160						
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
	EMBOQUILLE OESTE	1	221.99			221.99	
	EMBOQUILLE ESTE	1	158.56			158.56	380.55
							380.550
803.0620	m² CHAPA NERVADA O TROQUELADA 2 mm Y 9 ONDAS POR PANEL EN VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES						
	CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.						
	EMBOQUILLE OESTE	1	190.27			190.27	
	EMBOQUILLE ESTE	1	150.85			150.85	341.12
							341.120
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
	EMBOQUILLE OESTE	1	38.05			38.05	
	EMBOQUILLE ESTE	1	30.17			30.17	68.22
							68.220

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.2.2 EXCAVACIÓN						
	ELEMENTO 04.1.2.2.1 SECCIÓN TIPO S-1						
802.0010	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).						
		1	78.00	75.40		5,881.20	5,881.20
							5,881.200
802.0020	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).						
		1	78.00	59.96		4,676.88	4,676.88
							4,676.880
	ELEMENTO 04.1.2.2.2 SECCIÓN TIPO S-2						
802.0030	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).						
		1	121.00	76.58		9,266.18	9,266.18
							9,266.180
802.0040	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).						
		1	121.00	60.32		7,298.72	7,298.72
							7,298.720
	ELEMENTO 04.1.2.2.3 SECCIÓN TIPO S-3						
802.0050	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).						
		1	248.00	77.71		19,272.08	19,272.08
							19,272.080
802.0060	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA						
	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EX-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).						
		1	248.00	88.63		21,980.24	21,980.24
							21,980.240
	ELEMENTO 04.1.2.2.4 SECCIÓN TIPO S-4						
802.0150	m³ EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS						
	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).						
		1	205.00	89.21		18,288.05	18,288.05
							18,288.050
802.0160	m³ EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS						
	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
	(NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).						
		1	205.00	93.71		19,210.55	19,210.55
							19,210.550

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 04.1.2.2.5 SECCIÓN TIPO S-E						
802.0180	m³ EXCAVACIÓN DE TÚNEL AVANCE, EN BOQUILLAS						
	EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
		1	40.20	81.79		3,287.96	3,287.96
							3,287.960
802.0190	m³ EXCAVACIÓN DE TÚNEL DESTROZA, EN BOQUILLAS						
	EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.						
		1	40.20	90.90		3,654.18	3,654.18
							3,654.180
	SUBAPARTADO 04.1.2.3 SOSTENIMIENTO						
	ELEMENTO 04.1.2.3.1 SECCIÓN TIPO S-1						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	78.00	30.00		2,340.00	2,340.00
							2,340.000
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	78.00	2.99		233.22	233.22
							233.220
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	78.00	59.82		4,665.96	
							4,665.96
							4,665.960
	ELEMENTO 04.1.2.3.2 SECCIÓN TIPO S-2						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	121.00	56.00		6,776.00	6,776.00
							6,776.000
803.0330	m CERCHA DE TIPO TH-29						
	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	121.00	19.94		2,412.74	2,412.74
							2,412.740
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	121.00	9.07		1,097.47	1,097.47
							1,097.470
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	121.00	181.30		21,937.30	
							21,937.30
							21,937.300
	ELEMENTO 04.1.2.3.3 SECCIÓN TIPO S-3						
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN						
	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	248.00	120.00		29,760.00	29,760.00
							29,760.000
803.0330	m CERCHA DE TIPO TH-29						
	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	248.00	31.27		7,754.96	7,754.96
							7,754.960
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	248.00	11.43		2,834.64	2,834.64
							2,834.640
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	248.00	228.52		56,672.96	
							56,672.96
							56,672.960

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	248.00	31.27		7,754.96	7,754.96
							7,754.960
	ELEMENTO 04.1.2.3.4 SECCIÓN TIPO S-4						
803.0580	m MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN						
	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.						
		1	205.00	62.73		12,859.65	12,859.65
							12,859.650
803.0350	m CERCHA DE TIPO HEB-160						
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	205.00	95.75		19,628.75	19,628.75
							19,628.750
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	205.00	20.65		4,233.25	4,233.25
							4,233.250
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	GONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	205.00	378.56		77,604.80	
							77,604.80
							77,604.800
803.0220	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	205.00	17.84		3,657.20	
							3,657.20
							3,657.200
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	205.00	30.04		6,158.20	6,158.20
							6,158.200
	ELEMENTO 04.1.2.3.5 SECCIÓN TIPO S-E						
803.0580	m MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN						
	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.						
		1	40.20	49.00		1,969.80	1,969.80
							1,969.800
803.0350	m CERCHA DE TIPO HEB-160						
	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
		1	40.20	88.08		3,540.82	3,540.82
							3,540.820
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
		1	40.20	17.14		689.03	689.03
							689.030
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
		1	40.20	342.84		13,782.17	
							13,782.17
							13,782.170
803.0220	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	40.20	17.88		718.78	
							718.78
							718.780
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	40.20	26.16		1,051.63	1,051.63
							1,051.630
	SUBAPARTADO 04.1.2.4 TRATAMIENTOS ESPECIALES						
803.0150	m BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 mm DE DIÁMETRO						
	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	5,660.40			5,660.40	5,660.40
							5,660.400
803.0100	m BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm						
	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	361.00			361.00	361.00
							361.000
803.0230	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	135.90			135.90	135.90
							135.900
803.0510	m DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE						
	DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.						
		1	15,120.00			15,120.00	15,120.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							15,120.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	54.000			54.000	54.000
							54.000
803.0490	m³ HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL						
	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.						
		1	755.86			755.86	755.86
							755.860
804.0200	m³ INYECCIÓN MORTERO DE CEMENTO EN HUECOS EN TRASDÓS REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	27.00			27.00	27.00
							27.000
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
			34,013.70			34,013.70	34,013.70
							34,013.700

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.2.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA						
	ELEMENTO 04.1.2.5.1 SECCIÓN TIPO S-1						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	78.00		8.83	688.74	688.74
							688.740
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	78.00		3.02	235.56	235.56
							235.560
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE CO-LOCADO.						
		1	78.00		2.45	191.10	191.10
							191.100
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	78.00		27.27	2,127.06	2,127.06
							2,127.060
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	78.00		27.70	2,160.60	
							2,160.60

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,160.600
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	78.00	4.51		351.78	
							351.78
							351.780
	ELEMENTO 04.1.2.5.2 SECCIÓN TIPO S-2						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	121.00	8.83		1,068.43	1,068.43
							1,068.430
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	121.00	3.02		365.42	
							365.42
							365.420
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	121.00	2.45		296.45	296.45
							296.450
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	121.00	17.66		2,136.86	
							2,136.86
							2,136.860
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	121.00	27.70		3,351.70	
							3,351.70
							3,351.700
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	121.00	4.51		545.71	
							545.71
							545.710
	ELEMENTO 04.1.2.5.3 SECCIÓN TIPO S-3						
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	248.00	27.70		6,869.60	
							6,869.60
							6,869.600
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	248.00	5.59		1,386.32	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
						1,386.32	
							1,386.320
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	248.00	4.85		1,202.80	
							1,202.80
							1,202.800
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						
		1	248.00	6.80		1,686.40	1,686.40
							1,686.400
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	248.00	8.83		2,189.84	2,189.84
							2,189.840
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	248.000	22.710		5,632.080	5,632.080
							5,632.080
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	248.00	17.66		4,379.68	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
						4,379.68	
							4,379.680
	ELEMENTO 04.1.2.5.4 SECCIÓN TIPO S-4						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	205.00	8.83		1,810.15	
							1,810.15
							1,810.150
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	205.00	4.85		994.25	
							994.25
							994.250
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	205.00	17.66		3,620.30	
							3,620.30
							3,620.300
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	205.00	27.70		5,678.50	
							5,678.50
							5,678.500

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	205.00	5.59		1,145.95	
							1,145.95
							1,145.950
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	205.000	22.710		4,655.550	4,655.550
							4,655.550
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						
			205.00	6.80		1,394.00	1,394.00
							1,394.000
	ELEMENTO 04.1.2.5.5 SECCIÓN TIPO S-E						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	40.20	8.83		354.97	
							354.97
							354.970
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
		1	40.20	4.85		194.97	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							194.97
							194.970
804.0190	kg MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN						
	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.						
		1	40.20	17.66		709.93	
							709.93
							709.930
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	40.20	27.70		1,113.54	
							1,113.54
							1,113.540
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	40.20	5.59		224.72	
							224.72
							224.720
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	40.200	22.710		912.942	912.942
							912.942
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RRÁNEAS SIN INCLUIR ENCOFRADO.						
			40.20	6.80		273.36	273.36
							273.360
	SUBAPARTADO 04.1.2.6 ACABADOS						
	ELEMENTO 04.1.2.6.1 SECCIÓN S-1						
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
			78.000	5.980		466.440	466.440
							466.440
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			78.000	6.000		468.000	468.000
							468.000
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/med aux	2	78.00			156.00	156.00
							156.000
	ELEMENTO 04.1.2.6.2 SECCIÓN S-2						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			121.000	6.000		726.000	726.000
							726.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
			121.000	5.980		723.580	723.580
							723.580
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/med aux	2	121.00			242.00	242.00
							242.000
	ELEMENTO 04.1.2.6.3 SECCIÓN S-3						
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
			248.000	4.320		1,071.360	1,071.360
							1,071.360
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO.						
			248.000	6.000		1,488.000	1,488.000
							1,488.000
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/med aux	2	248.00			496.00	496.00
							496.000
	ELEMENTO 04.1.2.6.4 SECCIÓN S-4						
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			205.000	6.000		1,230.000	1,230.000
							1,230.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	205.000	4.320		885.600	885.600
							885.600
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/med aux	2	205.00			410.00	410.00
							410.000
	ELEMENTO 04.1.2.6.5 SECCIÓN S-E						
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
			40.200	4.320		173.664	173.664
							173.664
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm						
	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.						
			40.200	6.000		241.200	241.200
							241.200
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux	2	40.20			80.40	80.40
							80.400

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.2.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS						
	ELEMENTO 04.1.2.7.1 SECCIÓN S-1						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	78.00	29.75		2,320.50	
							2,320.50
							2,320.500
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	78.000	29.750		2,320.500	2,320.500
							2,320.500
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	78.00	29.75		2,320.50	
							2,320.50
							2,320.500
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			78.000	2.000		156.000	156.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							156.000
	ELEMENTO 04.1.2.7.2 SECCIÓN S-2						
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			121.000	2.000		242.000	242.000
							242.000
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	121.00	29.75		3,599.75	
							3,599.75
							3,599.750
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	121.000	29.750		3,599.750	3,599.750
							3,599.750
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	121.00	29.75		3,599.75	
							3,599.75

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							3,599.750
	ELEMENTO 04.1.2.7.3 SECCIÓN S-3						
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			248.000	2.000		496.000	496.000
							496.000
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	248.00	30.81		7,640.88	7,640.88
							7,640.880
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	248.000	30.810		7,640.880	7,640.880
							7,640.880
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	248.00	30.81		7,640.88	7,640.88
							7,640.880

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
		1	248.000	0.100		24.800	24.800
							24.800
	ELEMENTO 04.1.2.7.4 SECCIÓN S-4						
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			205.000	2.000		410.000	410.000
							410.000
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	205.00	30.84		6,322.20	6,322.20
							6,322.200
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	205.000	30.840		6,322.200	6,322.200
							6,322.200
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	COLOCADO EN INTERIOR DE TÚNEL.						
	(A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	205.00	30.84		6,322.20	
							6,322.20
							6,322.200
805.0013N1	m² LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD						
	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.						
			205.000	12.340		2,529.700	2,529.700
							2,529.700
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
			205.000	0.100		20.500	20.500
							20.500
	ELEMENTO 04.1.2.7.5 SECCIÓN S-E						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
		1	40.20	30.81		1,238.56	
							1,238.56
							1,238.560

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
		1	40.200	30.810		1,238.562	1,238.562
							1,238.562
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL.						
	(A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
		1	40.20	30.81		1,238.56	1,238.56
							1,238.560
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
			40.200	2.000		80.400	80.400
							80.400
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI)						
	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.						
			40.200	0.100		4.020	4.020
							4.020

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.2.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO						
	ELEMENTO 04.1.2.8.1 SECCIÓN S-1						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	78.00	0.05		3.90	3.90
							3.900
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	78.00	0.13		10.14	10.14
							10.140
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	78.00	0.13		10.14	10.14
							10.140
	ELEMENTO 04.1.2.8.2 SECCIÓN S-2						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	121.00	0.05		6.05	6.05
							6.050
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	121.00	0.17		20.57	20.57
							20.570
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	121.00	0.17		20.57	20.57
							20.570
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
		1	121.00	0.05		6.05	6.05
							6.050
	ELEMENTO 04.1.2.8.3 SECCIÓN S-3						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
		1	248.00	0.10		24.80	24.80
							24.800
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	248.00	0.20		49.60	49.60
							49.600
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	248.00	0.20		49.60	49.60
							49.600
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
		1	248.00	0.09		22.32	22.32
							22.320
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
			248.00	0.20		49.60	49.60
							49.600
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
		1	248.000	0.013		3.224	3.224
							3.224
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
		1	248.000	0.093		23.064	23.064
							23.064
	ELEMENTO 04.1.2.8.4 SECCIÓN S-4						
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO						
	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.						
			205.00	0.20		41.00	41.00
							41.000
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	205.00	0.25		51.25	51.25
							51.250
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	205.00	0.25		51.25	51.25
							51.250
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
		1	205.00	0.35		71.75	71.75
							71.750
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE						
	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE						
			205.00	0.30		61.50	61.50
							61.500
807.0051N1	ud CAJA DE TERMINALES						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAJA DE TERMINALES						
		1	205.000	0.050		10.250	10.250
							10.250
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
		1	205.000	0.350		71.750	71.750
							71.750
807.0054N1	ud EXTENSÓMETRO DE TRES VARILLAS						
	EXTENSÓMETRO DE TRES VARILLAS.						
			205.000	0.150		30.750	30.750
							30.750
	ELEMENTO 04.1.2.8.5 SECCIÓN S-E						
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
		1	40.20	0.25		10.05	10.05
							10.050
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
		1	40.20	0.25		10.05	10.05
							10.050
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	40.20	0.35		14.07	14.07
							14.070
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
		1	40.200	0.050		2.010	2.010
							2.010
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
		1	40.200	0.350		14.070	14.070
							14.070
	ELEMENTO 04.1.2.8.6 OTROS CONTROLES						
807.0056N1	m CABLE APANTALLADO PARA AUSCULTACIÓN						
	CABLE APANTALLADO PARA AUSCULTACIÓN.						
		1	750.000			750.000	750.000
							750.000
306.0230	m TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm						
	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.						
		90				90.00	90.00
							90.000
306.0250	ud INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO						
	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.						
		3				3.00	3.00
							3.000
807.0057N1	ud REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS						
	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DE EDIFICIOS.						
		13				13.000	13.000
							13.000
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		4				4.00	4.00
							4.000
807.0058N1	ud REGISTRO SISMOGRÁFICO DE VIBRACIONES						
	REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.						
		1				1.000	1.000
							1.000
807.0059N1	ud ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS						
	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.						
		1				1.000	1.000
							1.000
807.0060N1	mes AUSCULTACIÓN Y CONTROL DE TÚNELES						
	AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.						
		12				12.000	12.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							12.000
	APARTADO 04.1.3 EMBOQUILLES Y FALSOS TÚNELES						
	SUBAPARTADO 04.1.3.1 EMBOQUILLE 1 - OESTE						
	ELEMENTO 04.1.3.1.1 PANTALLA						
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Emboquille Oeste						
	Viga de atado						
	Nivel 1	2	103.83		0.65	134.98	
		2		0.60	0.65	0.78	
	Nivel 2	2	91.06		0.65	118.38	
		2		0.60	0.65	0.78	
	Nivel 3	2	74.35		0.65	96.66	
		2		0.60	0.65	0.78	
	Nivel 4	2	47.49		0.65	61.74	
		2		0.60	0.65	0.78	
	Nivel 5	2	54.93		0.65	71.41	
		2		0.60	0.65	0.78	
	Nivel 6	2	86.40		0.65	112.32	
		2		0.60	0.65	0.78	600.17
							600.170
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Emboquille Oeste						
	Viga de atado						
	Nivel 1	1	103.83	0.60	0.65	40.49	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 2	1	91.06	0.60	0.65	35.51	
	Nivel 3	1	74.35	0.60	0.65	29.00	
	Nivel 4	1	47.49	0.60	0.65	18.52	
	Nivel 5	1	54.93	0.60	0.65	21.42	
	Nivel 6	1	86.40	0.60	0.65	33.70	178.64
							178.640

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

	S/ Despieces						
	Emboquille Oeste						
	Viga de atado						
	Nivel 1	1	3,617.04			3,617.04	
		1	2,713.82			2,713.82	
	Nivel 2	1	3,204.60			3,204.60	
		1	2,422.44			2,422.44	
	Nivel 3	1	2,562.97			2,562.97	
		1	1,922.88			1,922.88	
	Nivel 4	1	2,905.85			2,905.85	
	Nivel 5	1	3,384.07			3,384.07	
	Nivel 6	1	5,237.08			5,237.08	
							27,970.75
							27,970.750

675.1260 ud PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE

PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo 1						
	Nivel 1	3					3.00
	Nivel 2	6					6.00
	Nivel 3	4					4.00
	Nivel 4	3					3.00
	Nivel 5	2					2.00
	Nivel 6	1					1.00
	Sección Tipo 2						
	Nivel 1	3					3.00
	Nivel 2	10					10.00
	Nivel 3	10					10.00
	Nivel 4	11					11.00
	Nivel 5	10					10.00
	Nivel 6	10					10.00
	Sección Tipo 3						
	Nivel 1	3					3.00
	Nivel 2	9					9.00
	Nivel 3	9					9.00
	Nivel 4	9					9.00
	Nivel 5	9					9.00
	Nivel 6	9					9.00
	Sección Tipo 4						
	Nivel 1	2					2.00
	Nivel 2	5					5.00
	Nivel 3	5					5.00
	Nivel 4	5					5.00
	Nivel 5	5					5.00
	Sección Tipo 5						
	Nivel 1	4					4.00
	Nivel 2	8					8.00
	Nivel 3	8					8.00
	Nivel 4	8					8.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo 6						
	Nivel 1	2				2.00	
	Nivel 2	7				7.00	
	Nivel 3	7				7.00	
	Sección Tipo 7						
	Nivel 1	1				1.00	
	Nivel 2	3				3.00	
	Sección Tipo 8						
	Nivel 1	1				1.00	192.00
							192.000

675.1012N1 m ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (3 CABLES)

ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).

	Sección Tipo 1				
	Nivel 1	3	14.000		42.000
	Nivel 2	6	13.000		78.000
	Nivel 3	4	12.000		48.000
	Nivel 4	3	10.000		30.000
	Nivel 5	2	9.000		18.000
	Nivel 6	1	9.000		9.000
	Sección Tipo 2				
	Nivel 1	3	14.000		42.000
	Nivel 2	10	13.000		130.000
	Nivel 3	10	12.000		120.000
	Nivel 4	11	10.000		110.000
	Nivel 5	10	9.000		90.000
	Sección Tipo 3				
	Nivel 1	3	14.000		42.000
	Nivel 2	9	13.000		117.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 3	9	12.000			108.000	
	Nivel 4	9	10.000			90.000	
	Nivel 5	9	9.000			81.000	
	Sección Tipo 4						
	Nivel 1	2	14.000			28.000	
	Nivel 2	5	13.000			65.000	
	Sección Tipo 5						
	Nivel 1	4	13.000			52.000	
	Nivel 2	8	12.000			96.000	
	Sección Tipo 6						
	Nivel 1	2	12.000			24.000	
	Nivel 2	7	11.000			77.000	
	Sección Tipo 7						
	Nivel 1	1	11.000			11.000	
	Nivel 2	3	10.000			30.000	
	Sección Tipo 8						
	Nivel 1	1	10.000			10.000	1,548.000
							1,548.000

675.1013N1 m ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (4 CABLES)

ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).

	Sección Tipo 2				
	Nivel 6	10	9.000		90.000
	Sección Tipo 3				
	Nivel 6	9	9.000		81.000
	Sección Tipo 4				
	Nivel 3	5	12.000		60.000
	Nivel 4	5	10.000		50.000
	Nivel 5	5	9.000		45.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo 5						
	Nivel 3	8	11.000			88.000	
	Nivel 4	8	9.000			72.000	
	Sección Tipo 6						
	Nivel 3	7	10.000			70.000	556.000
							556.000

803.0490 m³ HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL

HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.

Emboquille Oeste						
	1	892.79	0.10		89.28	
A descontar vigas de atado						
Nivel 1	-1	103.83	0.10	0.65	-6.75	
Nivel 2	-1	91.06	0.10	0.65	-5.92	
Nivel 3	-1	73.49	0.10	0.65	-4.78	
Nivel 4	-1	47.52	0.10	0.65	-3.09	
Nivel 5	-1	54.93	0.10	0.65	-3.57	
Nivel 6	-1	86.40	0.10	0.65	-5.62	59.55
						59.550

413.0030 m DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA

DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD

	36	6.00			216.00	216.00
						216.000

803.0303N1 m² MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10

MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍ-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

CULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.

Emboquille Oeste						
	1	892.790			892.790	
A descontar vigas de atado						
Nivel 1	-1	103.830		0.650	-67.490	
Nivel 2	-1	91.060		0.650	-59.189	
Nivel 3	-1	73.490		0.650	-47.769	
Nivel 4	-1	47.520		0.650	-30.888	
Nivel 5	-1	54.930		0.650	-35.705	
Nivel 6	-1	86.400		0.650	-56.160	595.589
						595.589

671.1001N1 ud TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES

TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICRO-PILOTES

	1				1.00	1.00
						1.000

803.0613N1 m MICROPILOTE DE DIÁMETRO NOMINAL 219,1 mm, TUB 193,7-10 Y ACERO N-80

MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.

Sección Tipo 1						
	30	8.880			266.400	
Sección Tipo 2						
	8	14.580			116.640	
	36	12.400			446.400	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo 3						
		36			13.820	497.520	
	Sección Tipo 4						
		20			10.630	212.600	
	Sección Tipo 5						
		28			8.580	240.240	
	Sección Tipo 6						
		28			6.160	172.480	
	Sección Tipo 7						
		12			4.420	53.040	
	Sección Tipo 8						
		9			3.510	31.590	
							2,036.910
							2,036.910

ELEMENTO 04.1.3.1.2 BÓVEDA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Oeste calzada izquierda						
	1	30.45	20.95	3.06	1,952.06	
Oeste calzada derecha						
	1	29.01	20.95	3.06	1,859.74	
						3,811.80
						3,811.800

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Oeste calzada izquierda						
		1	30.45	1.45	2.40	105.97	
		1	30.45	1.24	1.81	68.34	
	Oeste calzada derecha						
		1	29.01	1.45	2.40	100.95	
		1	29.01	1.24	1.81	65.11	
							340.37
							340.370

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Oeste calzada izquierda					
Zapata	2	30.55	1.00	61.10	
	2	30.55	0.50	30.55	
Bóveda	2	30.45	1.22	74.30	
Oeste calzada derecha					
Zapata	2	29.10	1.00	58.20	
	2	29.10	0.50	29.10	
Bóveda	2	29.01	1.22	70.78	
					324.03
					324.030

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Oeste calzada izquierda						
	Bóveda. Frontal	1	23.70	0.50		11.85	
		2		0.58	3.28	3.80	
	Oeste calzada derecha						
	Bóveda. Frontal	1	23.70	0.50		11.85	
		2		0.58	3.28	3.80	31.30
							31.300

804.0151N1 m² ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEA

ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.

	Oeste calzada izquierda						
	Bóveda	1	30.45		29.19	888.84	
	Oeste calzada derecha						
	Bóveda	1	29.01		29.19	846.80	
	Oeste calzada izquierda						1,735.64
							1,735.640

804.0150 m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS

ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.

	Oeste calzada izquierda						
	Bóveda	1	30.45		25.26	769.17	
	Oeste calzada derecha						
	Bóveda	1	29.01		25.26	732.79	
							1,501.96
							1,501.960

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Oeste calzada izquierda						
	Zapata	2	30.55	2.90	0.10	17.72	
	Contrabóveda	1	30.45	13.10	0.10	39.89	
	Oeste calzada derecha						
	Zapata	2	29.01	2.90	0.10	16.83	
	Contrabóveda	1	29.01	13.10	0.10	38.00	
							112.44
							112.440

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	Oeste calzada izquierda						
	Zapata	2	30.55	2.90	1.00	177.19	
	Contrabóveda	1	30.45	13.10	0.50	199.45	
	Oeste calzada derecha						
	Zapata	2	29.01	2.90	1.00	168.26	
	Contrabóveda	1	29.01	13.10	0.50	190.02	
							734.92
							734.920

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Oeste calzada izquierda						
	Bóveda Regular	1	30.45	24.78	0.50	377.28	
	Bóveda espesor variable	1	30.45	2.32	0.65	45.92	
		1	30.45	1.32	0.55	22.11	
	Oeste calzada derecha						
	Bóveda	1	29.01	24.78	0.50	359.43	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Bóveda espesor variable	1	29.01	2.32	0.65	43.75	
		1	29.01	1.32	0.55	21.06	
							869.55
							869.550
681.0010	m³ CIMBRA CUAJADA						
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
	Oeste calzada izquierda						
	Bóveda	1	30.45	134.88		4,107.10	
	Oeste calzada derecha						
	Bóveda	1	29.01	134.88		3,912.87	
							8,019.97
							8,019.970
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Oeste calzada izquierda						
		1	30.45	32.20		980.49	
		1	30.45	19.78		602.30	
	Oeste calzada derecha						
		1	29.01	32.20		934.12	
		1	29.01	19.78		573.82	
							3,090.73
							3,090.730
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Oeste calzada izquierda						
		1	30.45	29.20		889.14	
	Oeste calzada derecha						
		1	29.01	29.20		847.09	
							1,736.23
							1,736.230
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
	Oeste calzada izquierda						
		2	35.45			70.90	
	Oeste calzada derecha						
		2	34.01			68.02	
							138.92
							138.920
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Oeste calzada izquierda						
	Contrabóveda	1	27,001.57			27,001.57	
	Cimentación	1	25,471.65			25,471.65	
	Bóveda	1	69,920.19			69,920.19	
	Oeste calzada derecha						
	Contrabóveda	1	25,858.73			25,858.73	
	Cimentación	1	22,210.06			22,210.06	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Bóveda	1	66,721.78			66,721.78	
							237,183.98
							237,183.980

ELEMENTO 04.1.3.1.3 TRATAMIENTOS EN TALUDES DE DESMONTE

342.0200 m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO

BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.

1	888.00			888.00	888.00
					888.000

413.0030 m DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA

DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD

48.00				48.00	48.00
					48.000

803.0441N1 m³ HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES

HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.

72.830				72.830	72.830
					72.830

ELEMENTO 04.1.3.1.4 MUROS EN BOQUILLAS Y RELLENOS

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

1	640.00			640.00	640.00
					640.000

658.0080 m³ MURO DE ESCOLLERA CON BLOQUES DE 1000 A 3000 kg O SUPERIOR

MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (USO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1 I/ RELLENO DEL TRASDÓS CON MATERIAL FILTRANTE.

1	4,805.05			4,805.05	4,805.05
					4,805.050

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

1	192.00			192.00	192.00
					192.000

610.0010N1 m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN

HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.

1	29.700			29.700	29.700
					29.700

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.3.2 EMBOQUILLE 2 - ESTE						
	ELEMENTO 04.1.3.2.1 PANTALLA						
680.0010	m² ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Emboquille Este						
	Pantalla Lateral Calzada Izquierda						
	Viga de atado						
	Nivel 1	2	83.59		0.65	108.67	
		2		0.60	0.65	0.78	
		2	24.42		0.65	31.75	
		2		0.60	0.65	0.78	
	Nivel 2	2	79.24		0.65	103.01	
		2		0.60	0.65	0.78	
		2	21.51		0.65	27.96	
		2		0.60	0.65	0.78	
	Nivel 3	2	79.16		0.65	102.91	
		2		0.60	0.65	0.78	
		2	18.60		0.65	24.18	
		2		0.60	0.65	0.78	
	Nivel 4	2	79.09		0.65	102.82	
		2		0.60	0.65	0.78	
		2	15.68		0.65	20.38	
		2		0.60	0.65	0.78	
	Nivel 5	2	76.79		0.65	99.83	
		2		0.60	0.65	0.78	
		2	12.78		0.65	16.61	
		2		0.60	0.65	0.78	
	Nivel 6	2	75.74		0.65	98.46	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2		0.60	0.65	0.78	
		2	10.99		0.65	14.29	
		2		0.60	0.65	0.78	
	Nivel 7	2	74.87		0.65	97.33	
		2		0.60	0.65	0.78	
		2	7.43		0.65	9.66	
		2		0.60	0.65	0.78	
	Nivel 8	2	74.00		0.65	96.20	
		2		0.60	0.65	0.78	
		2	4.94		0.65	6.42	
		2		0.60	0.65	0.78	
	Nivel 9	2	73.12		0.65	95.06	
		2		0.60	0.65	0.78	
		2	2.93		0.65	3.81	
		2		0.60	0.65	0.78	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	2	32.10		0.65	41.73	
		2		0.60	0.65	0.78	
	Nivel 2	2	33.00		0.65	42.90	
		2		0.60	0.65	0.78	
	Nivel 3	2	33.89		0.65	44.06	
		2		0.60	0.65	0.78	
	Nivel 4	2	34.80		0.65	45.24	
		2		0.60	0.65	0.78	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1						
	Nivel 1	2	6.81		0.65	8.85	
		2		0.60	0.65	0.78	
		2	9.90		0.65	12.87	
		2		0.60	0.65	0.78	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	5.90		0.65	7.67	
		2		0.60	0.65	0.78	
		2	14.95		0.65	19.44	
		2		0.60	0.65	0.78	
		2	14.36		0.65	18.67	
		2		0.60	0.65	0.78	
	Nivel 2	2	20.95		0.65	27.24	
		2		0.60	0.65	0.78	
		2	10.95		0.65	14.24	
		2		0.60	0.65	0.78	
	Nivel 3	2	28.95		0.65	37.64	
		2		0.60	0.65	0.78	
		2	8.45		0.65	10.99	
		2		0.60	0.65	0.78	
	Nivel 4	2	30.95		0.65	40.24	
		2		0.60	0.65	0.78	
		2	5.45		0.65	7.09	
		2		0.60	0.65	0.78	
	Nivel 5	2	30.95		0.65	40.24	
		2		0.60	0.65	0.78	
		2	2.95		0.65	3.84	
		2		0.60	0.65	0.78	
							1,509.60
							1,509.600

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

Pantalla Lateral Calzada Izquierda

Viga de atado

	Nivel 1	1	83.59	0.60	0.65	32.60	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	24.42	0.60	0.65	9.52	
	Nivel 2	1	79.24	0.60	0.65	30.90	
		1	21.51	0.60	0.65	8.39	
	Nivel 3	1	79.16	0.60	0.65	30.87	
		1	18.60	0.60	0.65	7.25	
	Nivel 4	1	79.09	0.60	0.65	30.85	
		1	15.68	0.60	0.65	6.12	
	Nivel 5	1	76.79	0.60	0.65	29.95	
		1	12.78	0.60	0.65	4.98	
	Nivel 6	1	75.74	0.60	0.65	29.54	
		1	10.99	0.60	0.65	4.29	
	Nivel 7	1	74.87	0.60	0.65	29.20	
		1	7.43	0.60	0.65	2.90	
	Nivel 8	1	74.00	0.60	0.65	28.86	
		1	4.94	0.60	0.65	1.93	
	Nivel 9	1	73.12	0.60	0.65	28.52	
		1	2.93	0.60	0.65	1.14	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	1	32.10	0.60	0.65	12.52	
	Nivel 2	1	33.00	0.60	0.65	12.87	
	Nivel 3	1	33.89	0.60	0.65	13.22	
	Nivel 4	1	34.80	0.60	0.65	13.57	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1						
	Nivel 1	1	6.81	0.60	0.65	2.66	
		1	9.90	0.60	0.65	3.86	
		1	5.90	0.60	0.65	2.30	
		1	14.95	0.60	0.65	5.83	
		1	14.36	0.60	0.65	5.60	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 2	1	20.95	0.60	0.65	8.17	
		1	10.95	0.60	0.65	4.27	
	Nivel 3	1	28.95	0.60	0.65	11.29	
		1	8.45	0.60	0.65	3.30	
	Nivel 4	1	30.95	0.60	0.65	12.07	
		1	5.45	0.60	0.65	2.13	
	Nivel 5	1	30.95	0.60	0.65	12.07	
		1	2.95	0.60	0.65	1.15	
							444.69
							444.690

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

S/ Despieces					
Pantalla Lateral Calzada Izquierda					
Viga de atado					
Nivel 1	1	5,077.64		5,077.64	
	1	1,508.62		1,508.62	
Nivel 2	1	4,812.45		4,812.45	
	1	1,345.89		1,345.89	
Nivel 3	1	4,806.66		4,806.66	
	1	1,138.69		1,138.69	
Nivel 4	1	4,804.51		4,804.51	
	1	1,024.19		1,024.19	
Nivel 5	1	4,647.31		4,647.31	
	1	813.41		813.41	
Nivel 6	1	4,592.52		4,592.52	
	1	644.01		644.01	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 7	1	4,528.85			4,528.85	
		1	443.25			443.25	
	Nivel 8	1	4,479.32			4,479.32	
		1	306.68			306.68	
	Nivel 9	1	4,429.65			4,429.65	
		1	192.77			192.77	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	1	1,925.60			1,925.60	
	Nivel 2	1	2,008.25			2,008.25	
	Nivel 3	1	2,058.66			2,058.66	
	Nivel 4	1	2,109.37			2,109.37	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1						
	Nivel 1	1	417.26			417.26	
		1	614.75			614.75	
		1	376.39			376.39	
		1	912.53			912.53	
		1	879.74			879.74	
	Nivel 2	1	1,246.50			1,246.50	
		1	642.43			642.43	
	Nivel 3	1	1,736.96			1,736.96	
		1	502.13			502.13	
	Nivel 4	1	281.77			281.77	
		1	1,847.14			1,847.14	
		1	335.14			335.14	
	Nivel 5	1	158.21			158.21	
		1	1,847.14			1,847.14	
		1	198.27			198.27	69,694.66
							69,694.660

675.1260 ud PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.						
	Pantalla Lateral Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	9				9.00	
	Nivel 2	22				22.00	
	Nivel 3	22				22.00	
	Nivel 4	22				22.00	
	Nivel 5	21				21.00	
	Nivel 6	20				20.00	
	Nivel 7	20				20.00	
	Nivel 8	19				19.00	
	Nivel 9	19				19.00	
	Sección Tipo 2						
	Nivel 1	6				6.00	
	Nivel 2	18				18.00	
	Nivel 3	18				18.00	
	Nivel 4	18				18.00	
	Nivel 5	18				18.00	
	Nivel 6	18				18.00	
	Nivel 7	18				18.00	
	Nivel 8	18				18.00	
	Nivel 9	18				18.00	
	Sección Tipo 3						
	Nivel 1	5				5.00	
	Nivel 2	11				11.00	
	Nivel 3	10				10.00	
	Nivel 4	9				9.00	
	Nivel 5	7				7.00	
	Nivel 6	6				6.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 7	4				4.00	
	Nivel 8	3				3.00	
	Nivel 9	2				2.00	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	5				5.00	
	Nivel 2	17				17.00	
	Nivel 3	17				17.00	
	Nivel 4	18				18.00	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1						
	Nivel 1	15				15.00	
	Nivel 2	14				14.00	
	Nivel 3	16				16.00	
	Nivel 4	18				18.00	
	Nivel 5	17				17.00	
							518.00
							518.000
675.1012N1	m ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (3 CABLES)						
	ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).						
	Pantalla Lateral Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	9	21.000			189.000	
	Nivel 2	22	20.000			440.000	
	Nivel 3	22	18.000			396.000	
	Nivel 4	22	17.000			374.000	
	Nivel 5	21	16.000			336.000	
	Nivel 6	20	15.000			300.000	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 9	19	8.000			152.000	
	Sección Tipo 2						
	Nivel 1	6	21.000			126.000	
	Nivel 2	18	20.000			360.000	
	Nivel 3	18	18.000			324.000	
	Nivel 4	18	17.000			306.000	
	Nivel 5	18	16.000			288.000	
	Nivel 6	18	15.000			270.000	
	Nivel 9	18	8.000			144.000	
	Sección Tipo 3						
	Nivel 1	5	19.000			95.000	
	Nivel 2	11	18.000			198.000	
	Nivel 3	10	16.000			160.000	
	Nivel 4	9	15.000			135.000	
	Nivel 5	7	14.000			98.000	
	Nivel 6	6	13.000			78.000	
	Nivel 9	2	8.000			16.000	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
	Nivel 1	5	12.000			60.000	
	Nivel 2	17	10.000			170.000	
	Nivel 3	17	9.000			153.000	
	Nivel 4	18	8.000			144.000	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1						
	Nivel 1	15	14.000			210.000	
	Nivel 2	14	12.000			168.000	
	Nivel 3	16	11.000			176.000	
	Nivel 4	18	10.000			180.000	
	Nivel 5	17	9.000			153.000	
							6,199.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							6,199.000
675.1013N1	m ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (4 CABLES) ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).						
	Pantalla Lateral Calzada Izquierda						
	Sección Tipo 1						
	Nivel 7	20	12.000			240.000	
	Sección Tipo 2						
	Nivel 7	18	12.000			216.000	
	Sección Tipo 3						
	Nivel 7	4	10.000			40.000	496.000
							496.000
675.1014N1	m ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (5 CABLES) ANCLAJE TIPO 1 (5 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).						
	Pantalla Lateral Calzada Izquierda						
	Sección Tipo 1						
	Nivel 8	19	10.000			190.000	
	Sección Tipo 2						
	Nivel 8	18	10.000			180.000	
	Sección Tipo 3						
	Nivel 8	3	9.000			27.000	397.000
							397.000
803.0490	m³ HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pantalla Lateral Calzada Izquierda						
		1	2,056.88	0.10		205.69	
	A descontar viga de atado						
	Nivel 1	-1	83.59	0.10	0.65	-5.43	
		-1	24.42	0.10	0.65	-1.59	
	Nivel 2	-1	79.24	0.10	0.65	-5.15	
		-1	21.51	0.10	0.65	-1.40	
	Nivel 3	-1	79.16	0.10	0.65	-5.15	
		-1	18.60	0.10	0.65	-1.21	
	Nivel 4	-1	79.09	0.10	0.65	-5.14	
		-1	15.68	0.10	0.65	-1.02	
	Nivel 5	-1	76.79	0.10	0.65	-4.99	
		-1	12.78	0.10	0.65	-0.83	
	Nivel 6	-1	75.74	0.10	0.65	-4.92	
		-1	10.99	0.10	0.65	-0.71	
	Nivel 7	-1	74.87	0.10	0.65	-4.87	
		-1	7.43	0.10	0.65	-0.48	
	Nivel 8	-1	74.00	0.10	0.65	-4.81	
		-1	4.94	0.10	0.65	-0.32	
	Nivel 9	-1	73.12	0.10	0.65	-4.75	
		-1	2.93	0.10	0.65	-0.19	
	Pantalla Frontal Calzada Izquierda						
		1	299.75	0.10		29.98	
	A descontar viga de atado						
	Nivel 1	-1	32.10	0.10	0.65	-2.09	
	Nivel 2	-1	33.00	0.10	0.65	-2.15	
	Nivel 3	-1	33.89	0.10	0.65	-2.20	
	Nivel 4	-1	34.80	0.10	0.65	-2.26	
	Pantalla Lateral Calzada Derecha						
		1	534.51	0.10		53.45	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A descontar viga de atado						
	Nivel 1	-1	6.81	0.10	0.65	-0.44	
		-1	9.90	0.10	0.65	-0.64	
		-1	5.90	0.10	0.65	-0.38	
		-1	14.95	0.10	0.65	-0.97	
		-1	14.36	0.10	0.65	-0.93	
	Nivel 2	-1	20.95	0.10	0.65	-1.36	
		-1	10.95	0.10	0.65	-0.71	
	Nivel 3	-1	28.95	0.10	0.65	-1.88	
		-1	8.45	0.10	0.65	-0.55	
	Nivel 4	-1	30.95	0.10	0.65	-2.01	
		-1	5.45	0.10	0.65	-0.35	
	Nivel 5	-1	30.95	0.10	0.65	-2.01	
		-1	2.95	0.10	0.65	-0.19	
							215.04
							215.040

413.0030 m DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA

DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNI-DAD

Pantalla Lateral Calzada Izquierda					
	74	6.00	444.00		
Pantalla Frontal Calzada Izquierda					
	11	6.00	66.00		
Pantalla Lateral Calzada Derecha					
	23	6.00	138.00	648.00	
				648.000	

803.0303N1 m² MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EN CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
	Pantalla Lateral Calzada Izquierda						
		1	2,056.879			2,056.879	
	A descontar viga de atado						
	Nivel 1	-1	83.590		0.650	-54.334	
		-1	24.420		0.650	-15.873	
	Nivel 2	-1	79.240		0.650	-51.506	
		-1	21.510		0.650	-13.982	
	Nivel 3	-1	79.160		0.650	-51.454	
		-1	18.600		0.650	-12.090	
	Nivel 4	-1	79.090		0.650	-51.409	
		-1	15.680		0.650	-10.192	
	Nivel 5	-1	76.790		0.650	-49.914	
		-1	12.780		0.650	-8.307	
	Nivel 6	-1	75.740		0.650	-49.231	
		-1	10.990		0.650	-7.144	
	Nivel 7	-1	74.870		0.650	-48.666	
		-1	7.430		0.650	-4.830	
	Nivel 8	-1	74.000		0.650	-48.100	
		-1	4.940		0.650	-3.211	
	Nivel 9	-1	73.120		0.650	-47.528	
		-1	2.930		0.650	-1.905	
	Pantalla Frontal Calzada Izquierda						
		1	299.754			299.754	
	A descontar viga de atado						
	Nivel 1	-1	32.100		0.650	-20.865	
	Nivel 2	-1	33.000		0.650	-21.450	
	Nivel 3	-1	33.890		0.650	-22.029	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 4	-1	34.800		0.650	-22.620	
	Pantalla Lateral Calzada Derecha						
		1	534.508			534.508	
	A descontar viga de atado						
	Nivel 1	-1	6.811		0.650	-4.427	
		-1	9.904		0.650	-6.438	
		-1	5.897		0.650	-3.833	
		-1	14.950		0.650	-9.718	
		-1	14.357		0.650	-9.332	
	Nivel 2	-1	20.947		0.650	-13.616	
		-1	10.950		0.650	-7.118	
	Nivel 3	-1	28.950		0.650	-18.818	
		-1	8.450		0.650	-5.493	
	Nivel 4	-1	30.950		0.650	-20.118	
		-1	5.450		0.650	-3.543	
	Nivel 5	-1	30.950		0.650	-20.118	
		-1	2.950		0.650	-1.918	
							2,150.011
							2,150.011
671.1001N1	ud TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES						
	TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES						
		1			1.00	1.00	
							1.000
803.0613N1	m MICROPILOTE DE DIÁMETRO NOMINAL 219,1 mm, TUB 193,7-10 Y ACERO N-80						
	MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pantalla Lateral Calzada Izquierda						
	Sección Tipo 1						
		10			5.500	55.000	
		11			20.860	229.460	
		76			25.750	1,957.000	
	Sección Tipo 2						
		72			24.000	1,728.000	
	Sección Tipo 3						
		50			13.800	690.000	
	Pantalla Frontal Calzada Izquierda						
	Sección Tipo 1						
		69			10.220	705.180	
	Pantalla Lateral Calzada Derecha						
	Sección Tipo 1	14			7.160	100.240	
		31			13.980	433.380	
		34			16.600	564.400	
		27			9.930	268.110	
							6,730.770
							6,730.770

ELEMENTO 04.1.3.2.2 BÓVEDA

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Este calzada izquierda

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	135.99	20.95	3.06	8,717.91	
	Este calzada derecha						
		1	160.00	20.95	3.06	10,257.12	
	Galería de conexión						
		1	27.00	6.65	0.90	161.60	
							19,136.63
							19,136.630

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

	Este calzada izquierda						
		1	135.99	1.45	2.40	473.25	
		1	135.99	1.24	1.81	305.22	
	Galería de conexión	1	20.30	0.83	0.90	15.16	
	Este calzada derecha						
		1	160.00	1.45	2.40	556.80	
		1	160.00	1.24	1.81	359.10	
							1,709.53
							1,709.530

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Este calzada izquierda						
	Zapata	2	135.99		1.00	271.98	
		2	135.99		0.50	135.99	
	Bóveda	2	135.99		1.22	331.82	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Galería de conexión						
	Zapata	2	20.29		0.40	16.23	
	Bóveda	2	21.29		0.45	19.16	
	Este calzada derecha						
	Zapata	2	160.00		1.00	320.00	
		2	160.00		0.50	160.00	
	Bóveda	2	160.00		1.22	390.40	
							1,645.58
							1,645.580

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Este calzada izquierda						
	Bóveda. Frontal	1	24.75	0.50		12.38	
		2		0.58	2.32	2.69	
	Este calzada derecha						
	Bóveda. Frontal	1	24.75	0.50		12.38	
		2		0.58	2.32	2.69	
	Este calzada izquierda						30.14
							30.140

804.0151N1 m² ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEA

ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.

Este calzada izquierda						
Bóveda	1	135.99		29.19	3,969.55	
Galería de conexión						
Bóveda	1	27.30		11.95	326.24	
Este calzada derecha						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Bóveda	1	160.00		29.19	4,670.40	
	Este calzada izquierda						8,966.19
							8,966.190

804.0150 m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS

ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.

Este calzada izquierda						
Bóveda	1	135.99		25.26	3,435.11	
Galería de conexión						
Bóveda	1	27.30		9.60	262.08	
Este calzada derecha						
Bóveda	1	160.00		25.26	4,041.60	
Este calzada izquierda						7,738.79
						7,738.790

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

Este calzada izquierda						
Zapata	2	135.99	2.90	0.10	78.87	
Contrabóveda	1	135.99	13.10	0.10	178.15	
Galería de conexión						
	1	20.29	5.20	0.10	10.55	
Este calzada derecha						
Zapata	2	160.00	2.90	0.10	92.80	
Contrabóveda	1	160.00	13.10	0.10	209.60	
						569.97
						569.970

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Este calzada izquierda						
	Zapata	2	135.99	2.90	1.00	788.74	
	Contrabóveda	1	135.99	13.10	0.50	890.73	
	Galería de conexión						
		1	20.30	5.00	0.40	40.60	
	Este calzada derecha						
	Zapata	2	160.00	2.90	1.00	928.00	
	Contrabóveda	1	160.00	13.10	0.50	1,048.00	
							3,696.07
							3,696.070
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Este calzada izquierda						
	Bóveda Regular	1	135.99	24.78	0.50	1,684.92	
	Bóveda espesor variable	1	135.99	2.32	0.65	205.07	
		1	135.99	1.32	0.55	98.73	
	Galería de conexión						
	Bóveda regular	1	27.30	7.46	0.25	50.91	
	Bóveda espesor variable	2	27.30	1.25	0.29	19.79	
	Este calzada derecha						
	Bóveda	1	160.00	24.78	0.50	1,982.40	
	Bóveda espesor variable	1	160.00	2.32	0.65	241.28	
		1	160.00	1.32	0.55	116.16	
							4,399.26
							4,399.260
681.0010	m³ CIMBRA CUAJADA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
	Este calzada izquierda						
	Bóveda	1	135.99	134.88		18,342.33	
	Galería de conexión						
	Bóveda	1	27.30	15.01		409.77	
	Este calzada derecha						
	Bóveda	1	160.00	134.88		21,580.80	
							40,332.90
							40,332.900
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Este calzada izquierda						
		1	135.99	32.20		4,378.88	
		1	135.99	19.78		2,689.88	
	Galería de conexión						
		1	20.30	4.71		95.61	
		1	27.30	11.95		326.24	
	Este calzada derecha						
		1	160.00	32.20		5,152.00	
		1	160.00	19.78		3,164.80	
							15,807.41
							15,807.410
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Este calzada izquierda						
		1	135.99	29.20		3,970.91	
	Galería de conexión						
		1	27.30	11.95		326.24	
	Este calzada derecha						
		1	160.00	29.20		4,672.00	
							8,969.15
							8,969.150

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

	Este calzada izquierda						
		2	135.99			271.98	
	Galería de conexión						
		2	20.30			40.60	
	Este calzada derecha						
		2	160.00			320.00	
							632.58
							632.580

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

	S/ Despieces						
	Este calzada izquierda						
	Contrabóveda	1	120,505.61			120,505.61	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimentación	1	112,575.32			112,575.32	
	Bóveda	1	334,770.81			334,770.81	
	Galería de conexión						
	Cimentación	1	11,774.68			11,774.68	
	Bóveda	1	18,979.70			18,979.70	
	Este calzada derecha						
	Contrabóveda	1	141,854.86			141,854.86	
	Cimentación	1	132,606.97			132,606.97	
	Bóveda	1	394,087.47			394,087.47	
							1,267,155.42
							1,267,155.420

ELEMENTO 04.1.3.2.3 TRATAMIENTOS EN TALUDES DE DESMONTE

342.0200 m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO

BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.

		1	3,046.00			3,046.00	3,046.00
							3,046.000

413.0030 m DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA

DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD

		1	192.00			192.00	192.00
							192.000

803.0441N1 m³ HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.						
			192.600			192.600	192.600
							192.600
803.0303N1	m² MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10						
	MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
		1	653.600			653.600	653.600
							653.600
	ELEMENTO 04.1.3.2.4 MUROS EN BOQUILLAS Y RELLENOS						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	202.17			202.17	202.17
							202.170
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
		1	56.41			56.41	56.41
							56.410
658.0082N1	m³ MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO PROCEDENTE DE CANTERA						
	MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO REGULARES (PARALELEPÍPEDOS) PROCEDENTE DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CANTERA. INCLUYE EL SUMINISTRO Y COLOCACIÓN DE LOS BLOQUES DE PIEDRA, EJECUCIÓN DE JUNTAS ENTRE BLOQUES Y TODOS AQUELLOS TRABAJOS Y MATERIALES NECESARIOS PARA SU COMPLETA TERMINACIÓN.						
			2,187.000			2,187.000	2,187.000
							2,187.000
	APARTADO 04.1.4 GALERÍAS DE CONEXIÓN						
	SUBAPARTADO 04.1.4.1 ENTRONQUE GALERÍA - TÚNEL SUBTERRÁNEO						
803.0580	m MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN						
	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.						
		1	20.00	22.00		440.00	440.00
							440.000
803.0100	m BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm						
	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		1	33.00	6.00	6.00	1,188.00	
		1	20.00	6.00	4.00	480.00	
		1	9.00	6.00	6.00	324.00	1,992.00
							1,992.000
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
		1	25.37	6.00		152.22	152.22

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							152.220
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		1	18,938.70			18,938.70	18,938.70
							18,938.700
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
		1	17.76	6.00		106.56	106.56
							106.560
301.0030	m³ DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA						
	DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA I/ DESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
		1	7.27	6.00		43.62	43.62
							43.620

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.4.2 EXCAVACIÓN						
802.0200	m³ EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, EN TERRENOS DE CALIDAD BUENA						
	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD BUENA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).						
	SG-1	1	34.78	23.15		805.16	805.16
							805.160
802.0210	m³ EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, EN TERRENOS DE CALIDAD MALA						
	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD MALA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).						
	SG-2	1	20.72	24.44		506.40	506.40
							506.400

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.4.3 SOSTENIMIENTO						
803.0090	m BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 25 mm						
	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
	SG-1	1	34.78	6.25		217.38	
	SG-2	1	20.72	32.50		673.40	890.78
							890.780
803.0320	m CERCHA DE TIPO TH-21						
	CERCHA DE TIPO TH-21 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.						
	SG-2	1	20.72	12.43		257.55	257.55
							257.550
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.						
	SG-1	1	34.78	1.21		42.08	
	SG-2	1	20.72	4.38		90.75	132.83
							132.830
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL						
	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.						
	SG-1	1	34.78	24.22		842.37	
	SG-2	1	20.72	87.53		1,813.62	2,655.99

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,655.990
803.0210	m² MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 6 mm CUADRÍCULA 15 X 15						
	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 6 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.						
	SG-2	1	20.72	12.43		257.55	257.55
							257.550
	SUBAPARTADO 04.1.4.4 TRATAMIENTOS ESPECIALES						
803.0510	m DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE						
	DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.						
	SG-2	1	39.10			39.10	39.10
							39.100
803.0490	m³ HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL						
	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.						
	SG-2	1	9.78			9.78	9.78
							9.780

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.4.5 REVESTIMIENTO, SOLERAS, CONTRABÓVEDAS						
804.0030	m³ HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.						
	SG-1	1	34.78	4.23		147.12	
	SG-2	1	20.72	2.35		48.69	195.81
							195.810
804.0070	m³ HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS						
	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.						
	SG-1	1	34.78	1.40		48.69	
	SG-2	1	20.72	1.40		29.01	77.70
							77.700
804.0120	m³ HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.						
	SG-1	1	34.78	1.24		43.13	
	SG-2	1	20.72	1.24		25.69	68.82
							68.820
804.0150	m² ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.						
	SG-1	1	34.78	10.45		363.45	
	SG-2	1	20.72	10.45		216.52	579.97
							579.970
804.0180	m² ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS						
	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RRÁNEAS.						
	SG-1	1	34.78	1.47		51.13	
	SG-2	1	20.72	1.47		30.46	81.59
							81.590
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
	SG-1	1	34.780	1.610		55.996	
	SG-2	1	20.720	1.610		33.359	89.355
							89.355
	SUBAPARTADO 04.1.4.6 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS						
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
	SG-1	1	34.78	9.55		332.15	
	SG-2	1	20.72	9.55		197.88	530.03
							530.030
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
	SG-1	1	34.780	9.550		332.149	
	SG-2	1	20.720	9.550		197.876	530.025
							530.025
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL.						
	(A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).						
	SG-1	1	34.78	9.55		332.15	
	SG-2	1	20.72	9.55		197.88	530.03
							530.030
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL						
	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.						
	SG-1		34.780	2.000		69.560	
	SG-2		20.720	2.000		41.440	111.000
							111.000

SUBAPARTADO 04.1.4.7 AUSCULTACIÓN Y CONTROL GEOTÉCNICO

807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL						
	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.						
	SG-1	1	34.78	0.26		9.04	
	SG-2	1	20.72	0.43		8.91	17.95
							17.950
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL						
	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.						
	SG-1	1	34.78	0.26		9.04	
	SG-2	1	20.72	0.43		8.91	17.95
							17.950
807.0010	ud CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA						
	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.						
	SG-2	1	20.72	0.10		2.07	2.07
							2.070
807.0051N1	ud CAJA DE TERMINALES						
	CAJA DE TERMINALES						
	SG-1	1	34.780	0.030		1.043	
	SG-2	1	20.720	0.100		2.072	3.115
							3.115
807.0053N1	ud EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE						
	SG-2	1	20.720	0.100		2.072	2.072
							2.072
807.0056N1	m CABLE APANTALLADO PARA AUSCULTACIÓN						
	CABLE APANTALLADO PARA AUSCULTACIÓN.						
	SG-1	1	34.780	0.430		14.955	
	SG-2	1	20.720	1.450		30.044	44.999
							44.999

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 04.1.5 DRENAJE DE TÚNEL						
	SUBAPARTADO 04.1.5.1 COLECTORES Y CACES						
413.0010N4	m CAZ PREFABRICADO SOBRE SOLERA DE HORMIGÓN DE 400 mm PARA TÚNEL						
	CAZ PREFABRICADO DE DIÁMETRO EQUIVALENTE 400 MM PARA TÚNEL, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, I/ PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.						
	Calzada derecha	1	859.000			859.000	
			50.000			50.000	
	Calzada izquierda	1	852.000			852.000	
			50.000			50.000	1,811.000
							1,811.000
414.0020	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 300 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 300MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Calzada Izquierda	2	852.00			1,704.00	
	Calzada derecha	2	859.00			1,718.00	
	Desagüe infiltr.Calzada derecha	1	110.00			110.00	
	Desagüe infiltr.Calzada izquierda	1	110.00			110.00	3,642.00
							3,642.000
414.0060	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Calzada derecha	1	859.00			859.00	
		1	50.00			50.00	
	Calzada izquierda	1	852.00			852.00	
		1	50.00			50.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Conexión a balsa	1	70.00			70.00	1,881.00
							1,881.000
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Ø 300 mm	1	220.00	1.20	2.50	660.00	
	Ø 500 mm	1	70.00	1.20	2.50	210.00	870.00
							870.000
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Ø 300 mm	1	220.00	1.20	1.30	343.20	
	Ø 500 mm	1	70.00	1.20	1.30	109.20	452.40
							452.400
610.0020	m³ HORMIGÓN C20/25						
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.						
	Ø 300 mm	1	220.00	1.20	1.00	264.00	
	Ø 500 mm	1	70.00	1.20	1.00	84.00	348.00
							348.000
805.0061N1	m TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURADO DE PVC DE 110 mm DE DIÁMETRO, EN TÚNEL i/ MATERIAL DE ASIENTO						
	TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO DE PVC DE 110 MM DE DIÁMETRO, EN TÚNEL I/ MATERIAL DE ASIENTO CON MORTERO DE 10 CM DE ESPESOR Y RESTO DE MATERIALES PARA SU TOTAL TERMINACIÓN Y PUESTA EN OBRA.						
	Calzada izquierda	38	3.500			133.000	
	Calzada derecha	39	3.500			136.500	269.500
							269.500
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
	Colector desagüe infiltración	4				4.00	
	Colector desagüe en balsa	2				2.00	6.00
							6.000
410.0026N1	ud ARQUETA SIFÓNICA						
	ARQUETA SIFÓNICA DE HORMIGÓN ARMADO DE 1,20 X 1,45 X 1,45 M DE DIMENSIONES INTERIORES, I/ TAPA, TOTALMENTE COLOCADA EN TÚNEL.						
	Calzada derecha	21				21.000	
	Calzada izquierda	20				20.000	41.000
							41.000
415.0008N1	ud BOQUILLA Y ALETAS PARA TUBO Ø=30 cm						
	BOQUILLA Y ALETAS PARA TUBO DE 30 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.						
	Calzada Izquierda	1				1.000	
	Calzada Derecha	1				1.000	2.000
							2.000
413.0010N1	m CANAL SEMICIRCULAR Ø 30 cm						
	CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DE JUNTAS, TOTALMENTE TERMINADO.						
	Galerías de Conexión						
	1	30				30.000	
	2	30				30.000	
	3	30				30.000	
	4	29				29.000	119.000
							119.000
410.0022N1	ud ARQUETA DE REGISTRO PARA DRENES 0,50 x 1,20 x 1,00 m						
	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 1,20 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.						
	Calzada izquierda	38				38.000	
	Calzada derecha	39				39.000	
	Galería	8				8.000	85.000
							85.000
411.0011N2	ud SUMIDERO SIFÓNICO FUNDICIÓN 20 x 20 cm						
	SUMIDERO SIFÓNICO CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.						
	Galerías de Conexión						
	1	2				2.000	
	2	2				2.000	
	3	2				2.000	
	4	2				2.000	8.000
							8.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.1.5.2 BALSA DE VERTIDOS						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	BALSA	1	12.00	12.00	5.45	784.80	
	COLECTOR DESAGÜE	1	90.00	2.70		243.00	1,027.80
							1,027.800
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	BALSA	2	1.00	12.00	5.45	130.80	
		2	1.00	10.00	5.45	109.00	
	COLECTOR DESAGÜE	1	90.00	2.70		243.00	482.80
							482.800
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
	COLECTOR DE DESAGÜE	2				2.00	2.00
							2.000
413.0012N1	ud TAPA DE FUNDICIÓN DÚCTIL, C-250, DE 700 mm DE DIÁMETRO						
	TAPA DE FUNDICIÓN, C-250, DE 700 MM DE DIÁMETRO, I/						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUMINISTRO Y COLOCACIÓN.						
		3				3.000	3.000
							3.000
415.0015N1	ud BOQUILLA Y ALETAS PARA TUBO Ø=50 cm						
	BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.						
	COLECTOR DE DESAGÜE	1				1.000	1.000
							1.000
418.0010	ud PATE DE ACERO REVESTIDO CON POLIPROPILENO						
	PATE DE ACERO REVESTIDO CON POLIPROPILENO						
		1	6.00			6.00	
		2	17.00			34.00	
		1	18.00			18.00	58.00
							58.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	CIMENTACIÓN	2	51.00	8.70	0.89	789.79	
		2	45.00	10.00	0.89	801.00	
		4	9.00	1.30	0.89	41.65	
		4	8.00	1.60	0.89	45.57	
	ALZADOS	4	45.00	5.05	0.89	809.01	
		4	27.00	8.70	0.89	836.24	
		4	48.00	5.05	0.89	862.94	
		4	27.00	8.70	0.89	836.24	
		2	17.00	6.60	0.89	199.72	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	34.00	3.05	0.89	184.59	
		1	9.00	1.70	2.00	30.60	
		2	6.00	1.70	2.00	40.80	
		1	9.00	5.35	2.00	96.30	
		2	6.00	5.35	2.00	128.40	
		1	6.00	5.05	2.00	60.60	
		1	9.00	5.05	2.00	90.90	
	SOLAPES	0.1	5,854.35			585.44	6,439.79
							6,439.790

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	BALSA	1	8.90	10.20	0.10	9.08	
		1	1.40	1.80	0.10	0.25	
		1	1.40	1.80	0.10	0.25	
	COLECTOR DESAGÜE	1	90.00	1.12		100.80	110.38
							110.380

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	BALSA	1	8.70	10.00	0.30	26.10	
		2	1.60	1.30	0.30	1.25	27.35
							27.350

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	BALSA	2	8.70	5.05	0.30	26.36	
		2	9.40	5.05	0.30	28.48	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	6.60	3.05	0.30	6.04	
		2	1.30	2.00	0.30	1.56	
		1	1.00	2.00	0.30	0.60	
		2	1.30	5.35	0.30	4.17	
		1	1.00	5.35	0.30	1.61	
		1	1.30	0.30	0.30	0.12	
		1	1.50	5.05	0.30	2.27	
		1	1.00	5.05	0.30	1.52	
		2	1.00	1.00	0.30	0.60	
		1	1.00	1.20	0.30	0.36	
		4	0.10	0.10	2.00	0.08	73.77
							73.770

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

BALSA	2	8.70	5.35	93.09		
	2	10.00	5.35	107.00		
	2	1.30	2.30	5.98		
	1	1.60	2.30	3.68		
	2	1.30	5.65	14.69		
	1	1.60	5.65	9.04	233.48	
					233.480	

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

BALSA	2	8.10	5.05	81.81	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	9.40	5.05		47.47	
		2	6.60	3.05		40.26	
		1	8.10	5.05		40.91	
		3	1.50	5.05		22.73	
		3	1.00	5.05		15.15	
		3	1.00	5.35		16.05	
		3	1.00	2.00		6.00	
		4	4.00	0.10	2.00	3.20	273.58
							273.580

704.0192N1 m² PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 mm DE ESPESOR

PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 MM DE ESPESOR, I/ PARTE PROPORCIONAL DE SUJECCIONES O APOYOS, TOTALMENTE INSTALADA Y COLACADA.

		1	8.700	1.200		10.440	10.440
							10.440

805.0131N1 m² RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO

RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO.

		1	8.100	8.100		65.610	
		3	8.100	5.050		122.715	
		2	8.100	3.050		49.410	
		1	6.800	5.050		34.340	
		2	5.050	1.000		10.100	
		4	1.700	1.000		6.800	
		2	5.050	1.200		12.120	
		2	5.050	1.000		10.100	
		4	5.350	1.000		21.400	332.595
							332.595

805.0132N1 ud CODO DE 90º DE FUNDICIÓN DÚCTIL, D = 200 mm, PN16

SUMINISTRO Y MONTAJE DE CODO DE 90º DE FUNDICIÓN DÚCTIL DE 200 MM DE DIÁMETRO PARA UNA PRESIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PN16.						
		2				2.000	2.000
							2.000

915.0012N1 m CERRAMIENTO DE 2 m COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN

CERRAMIENTO DE 2,0 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3 M, ARRIOSTRAMIENTO CADA 30 M Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS.

		1	45.000			45.000	45.000
							45.000

915.0021N1 ud PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 x 2,00 m), TOTALMENTE COLOCADA

PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 X 2,00 M), TOTALMENTE COLOCADA.

		1				1.000	1.000
							1.000

930.0002N1 m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 200 mm

TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 200 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO

		1	3.000			3.000	
		1	2.000			2.000	5.000
							5.000

999.0307N1 ud VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 200 mm

VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE

		2				2.000	2.000
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 04.1.6 REPARACIONES						
999.0100N1	PA POSIBLES REPARACIONES POR CONSTRUCCIÓN DEL TÚNEL Y EXCAVACIONES						
	PARTIDA ALZADA A JUSTIFICAR PARA POSIBLES REPARACIONES POR POSIBLES DAÑOS IMPREVISTOS PRODUCIDOS POR LA CONSTRUCCIÓN DEL TÚNEL Y EXCAVACIONES EN EDIFICACIONES CERCANAS						
		1				1.00	1.00
							1.000
	SUBCAPÍTULO 04.2 INSTALACIONES						
	APARTADO 04.2.1 INSTALACIONES TÚNEL EIROAS						
	SUBAPARTADO 04.2.1.1 PROTECCIÓN CONTRA INCENDIOS						
	ELEMENTO 04.2.1.1.1 EQUIPOS DE PROTECCIÓN CONTRA INCENDIOS						
997.0005N1	ud HIDRANTE COLUMNA SECA, 6" CON 3 BOCAS, TOMA RECTA						
	HIDRANTE DE COLUMNA SECA, ANTICHOQUE ANTIHIELO DE 6", CON 3 BOCAS, 1X4" (100) / 2X2 1/2" (70), CON RACORES SEGÚN NORMA UNE, TAPONES ANTIRROBO Y PROFUNDIDAD 485 MM, EN TOMA RECTA A LA RED. MEDIDA LA UNIDAD INSTALADA. CUMPLE CON LA NORMATIVA VIGENTE UNE, SEGÚN SE EXIGE EN EL REGLAMENTO DE INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS.						
		2				2.00	2.00
		2				2.00	2.00
							4.000
997.0038N1	ud PULSADOR ALAMA DE INCENDIOS						
	PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada Izquierda	6				6.00	
	Calzada Derecha	6				6.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Galerías de emergencia	4				4.00	16.00
							16.000
997.0009N1	ud ARMARIO METÁLICO BIE CON EXTINTORES (ARMARIO 93 x 71,5 cm)						
	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 93 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE Y EXTINTORES DE POLVO QUÍMICO, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada Izquierda.	22				22.00	
	Calzada Derecha	22				22.00	44.00
							44.000
997.0010N1	ud ARMARIO METÁLICO BIE CON 2 EXTINTORES + PULSADOR DE ALARMA + ESTACIÓN SOS (ARMARIO 193 x 71,5 cm)						
	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 193 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE, 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada izquierda	6				6.00	
	Calzada derecha	6				6.00	
	Calzada derecha	4				4.00	16.00
							16.000
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg						
	EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.						
	Calzada Izquierda	34				34.00	
	Calzada Derecha	34				34.00	
	Galerías evacuación	8				8.00	76.00
							76.000
997.0003N1	ud SEÑAL FOTOLUMINISCENTE 700 x 500 mm						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada Izquierda equipamiento PCI	53				53.00	
	Calzada Izquierda equipamiento PCI	53				53.00	
	Calzada Derecha señalización evacuación	140				140.00	
	Calzada Derecha señalización evacuación	140				140.00	386.00
							386.000
997.0034N1	m CABLE SENSOR LISTEC O SIMILAR						
	CABLE SENSOR CON CUBIERTA IGNÍFUGA Y SIN HALÓGENOS CON 8 M DE DISTANCIA ENTRE SENSOR, RANGO DE MEDIDA DE TEMPERATURAS: - 40ºC + 85ºC, RESOLUCIÓN DE 0,1ºC, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada izquierda	852				852.00	
	Calzada derecha	859				859.00	1,711.00
							1,711.000
997.0014N1	ud SISTEMA DE CONTROL DE CABLE SENSOR						
	SISTEMA DE CONTROL PARA EL CABLE SENSOR, COMPUESTO POR UNIDAD MAESTRA DE CONTROL Y 2 UNIDADES ESCALVAS, VÍA INTERFACE RS-485 CON DISPLAY ALFANUMÉRICO LCD DE 2 X 40 CARACTERES Y TECLADO, CONTACTOS DE COMMUTACIÓN PARA ALARMA COMÚN Y FALLO, FUENTE DE ALIMENTACIÓN 230 VAC / 50 HZ, UPS 72 H (SAI 72 H), SUBRACK DE 19", ASÍ COMO EL RESTO DE ELEMENTOS DE CONTROL NECESARIOS PARA LA COMPLETA INSTALACIÓN DEL SISTEMA DE DETECCIÓN DE INCENDIOS, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
997.0040N1	ud CENTRAL DETECCIÓN INCENDIOS						
	CENTRAL ALGORÍTMICA DE DETECCIÓN DE INCENDIOS CON CAPACIDAD PARA CONTROLAR HASTA 250 EQUIPOS, FABRICADOS SEGÚN NORMATIVAS EN 54-2 Y EN-54-4:1998, CON DISPLAY GRÁFICO, MEMORIA DE EVENTOS NO VOLÁTIL, CON CAPACIDAD PARA MÁS DE 1000 REGISTROS, GESTIÓN TOTAL DE LISTADOS DE EVENTOS, RELOJ EN TIEMPO REAL, SALIDA INCORPORADAS DE EVACUACIÓN, ALARMA, PREALARMA Y AVERÍA, MODO DIA/NOCHE CONFIGURABLE AUTOMÁTICAMENTE MEDIANTE CALENDARIO PROGRAMABLE, MODOS DE TEST Y PRUEBAS INCORPORADOS PARA CADA ZONA, CAPACIDAD MULTILENGUAJE, CONTROL DE ACCESO RESTRINGIDO MEDIANTE LLAVE O CLAVE PROGRAMABLE, PUERTO DE IMPRESORA SERIE INCORPORADO, PUERTOS RS-232 Y RS-485 INDEPENDIENTES, PROVISTA DE FUENTE DE ALIMENTACIÓN DE 4 A Y DOS BATERÍAS DE 12 V / 7 AH Y UNIDAD DE CONTROL DE BUCLES ANALÓGICOS ENCHUFABLES EN LAS CENTRALES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca norte	1				1.00	
	Boca sur	1				1.00	2.00
							2.000
997.0012N1	ud ARMARIO METÁLICO CON 2 EXTINTORES + PULSADOR DE ALARMA + ESTACIÓN SOS						
	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 135 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Galerías de evacuación	4				4.00	4.00
							4.000
997.0028N1	ud VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 150 mm						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	(6")						
	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 150 MM (6"), PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		4				4.000	4.000
							4.000
997.0016N1	ud DRENAJE RED DE PCI						
	DRENAJE RED DE PCI, CON TUBERÍA DE ACERO DIN 2440 DE 1 1/4" DE DIÁMETRO Y VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO, SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0019N1	ud VENTOSA PARA RED DE COLUMNA SECA						
	VENTOSA PARA RED DE COLUMNA SECA, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
							2.000
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	340.000			340.000	340.000
							340.000
997.0020N1	ud TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA						
	TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA, TOTALMENTE TERMINADO.						
		4				4.000	4.000
							4.000
997.0021N1	m TUBO DE ACERO DIN 2440 1 1/2"						
	TUBERÍA ACERO ESTIRADO SIN SOLDADURA, CLASE NEGRA,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DIN-2440 DE 1 1/2" (DN-32), SIN CALORIFUGAR, COLOCADO EN INSTALACIÓN DE AGUA, INCLUSO P.P. DE UNIONES, SOPORTACIÓN, ACCESORIOS, PLATAFORMAS MÓVILES, MANO DE OBRA, PRUEBA HIDRÁULICA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						
		1	196.000			196.000	196.000
							196.000
997.0036N1	ud VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-150 mm						
	SUMINISTRO E INSTALACIÓN DE VÁLVULA DE MARIPOSA PARA EMBRIDAR, DE DIÁMETRO 6" DE DIÁMETRO, PN=16 BAR, FORMADA POR CUERPO, DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS ES ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		17				17.000	17.000
							17.000
997.0006N1	ud HIDRANTE DE 4" CON 2 BOCAS Y ARQUETA						
	HIDRANTE ENTERRADO DE 4” DN100, CON 2 BOCAS DE 70 MM, CON RACORES Y TAPONES, EN ALUMINIO ESTAMPADO CON ARQUETA COMPLETA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						
		1	8.00			8.00	8.00
							8.000
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		1	46.03			46.03	46.03
							46.030
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		1	1.00	15.26		15.26	15.26
							15.260
997.0022N1	m³ GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 m³/h A 80 mca						
	GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 M3/H A 80 MCA, COMPUESTO POR UNA ELECTROBOMBA PRINCIPAL, UNA ELECTROBOMBA DE EMERGENCIA (55 KW), ELECTROBOMBA JOCKEY DE 4 KW, COLECTOR DE ASPIRACIÓN CON VÁLVULAS DE SECCIONAMIENTO, COLECTOR DE IMPULSIÓN CON VÁLVULAS DE CORTE Y RETENCIÓN, VÁLVULA PRINCIPAL DE RETENCIÓN Y COLECTOR DE PRUEBAS EN IMPULSIÓN, MANÓMETRO Y VÁLVULA DE SEGURIDAD, ACUMULADOR HIDRONEUMÁTICO DE 25 L. BANCADA METÁLICA Y CUADRO ELÉCTRICO DE MANIOBRAS SEGÚN NORMAS UNE (23-500-90), I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.000	1.000
							1.000
999.0307N1	ud VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 200 mm						
	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE						
		4				4.000	4.000
							4.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 04.2.1.1.2 DEPÓSITO DE PROTECCIÓN CONTRA INCENDIOS						
997.0291N1	m² FORMACIÓN DE ESCALERA SOBRE LOSA						
	FORMACIÓN DE ESCALERA SOBRE LOSA, TOTALMENTE TERMINADA.						
		2	0.80	4.20	1.00	6.72	6.72
							6.720
997.0292N1	m JUNTA EN MUROS						
	JUNTA EN MUROS.						
		2	17.30	1.00	1.00	34.60	
		2	11.16	1.00	1.00	22.32	
							56.92
							56.920
997.0293N1	m PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 m						
	PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 M, TOTALMENTE COLOCADA EN OBRA.						
		1	10.00	11.10	1.00	111.00	
							111.00
							111.000
620.0020	kg ACERO S275JR EN CHAPAS Y PERFILES LAMINADOS						
	ACERO LAMINADO ESTRUCTURAL S275JR EN CHAPAS Y PERFILES LAMINADOS I/ P.P. DE DESPUNTES, CORTE, DOBLADO, SOLDADURAS, TRANSPORTE, POSICIONAMIENTO Y COLOCACIÓN EN OBRA, PROTECCIÓN ANTI-CORROSIÓN TOTALMENTE MONTADO.						
	Tapas cubierta	3	0.80	0.80	60.00	115.20	
		1	0.80	3.80	60.00	182.40	
							297.60
							297.600
681.0010	m³ CIMBRA CUAJADA						
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SU-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
		1	1.20	11.10	3.60	47.95	
		1	1.30	11.10	3.60	51.95	
							99.90
							99.900
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Losa cimentacion	1	2.00	0.60	31.10	37.32	
	Muros	1	4.00	4.10	17.70	290.28	
		1	4.00	4.10	11.00	180.40	
		1	2.00	3.10	11.00	68.20	
		1	2.00	3.10	10.40	64.48	
		1	2.00	4.10	11.00	90.20	
	Vigas	2	0.20	11.10	1.00	4.44	
							735.32
	Según mediciones auxiliares	1	115.80	0.90		104.22	104.22
							839.540
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Losa cimentacion	1	12.20	18.90	0.60	138.35	
	Muros	2	3.50	0.40	17.70	49.56	
		2	0.60	0.12	17.70	2.55	
		2	4.10	0.40	11.00	36.08	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.10	0.40	11.00	13.64	
		1	3.10	0.40	10.40	12.90	
		1	4.10	0.40	11.00	18.04	
	Losa P.A.	1	0.10	11.10	17.30	19.20	
	Vigas	1	0.40	0.40	11.10	1.78	
		1	0.50	0.40	11.10	2.22	
		1	12.80	1.00	0.10	1.28	
	Escalera	2	0.80	4.20	0.15	1.01	
	Formacion de mesetas de apoyo	2	0.25	0.09	17.30	0.78	
							297.39
	Según mediciones auxiliares	1	35.44	0.90		31.90	31.90
							329.290
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
		1	12.200	18.900	0.100	23.058	
							23.058
							23.058
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Losa cimentacion	1	82.00	12.00	2.47	2,430.48	
		1	82.00	8.65	2.47	1,751.97	
		2	126.00	7.00	2.47	4,357.08	
		2	82.00	12.00	1.58	3,109.44	
		2	126.00	8.00	1.58	3,185.28	
		2	1.60	119.00	1.58	601.66	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4	1.60	75.00	1.58	758.40	
		1	1.60	70.00	1.58	176.96	
	Muro tipo 1	2	0.45	119.00	0.89	95.32	
		4	3.00	12.00	0.89	128.16	
		4	3.00	6.70	0.89	71.56	
		4	13.00	12.00	0.89	555.36	
		4	13.00	6.70	0.89	310.08	
		4	1.00	12.00	1.58	75.84	
		4	1.00	6.70	1.58	42.34	
		2	60.00	1.00	1.58	189.60	
		2	60.00	3.75	1.58	711.00	
		2	60.00	1.85	1.58	350.76	
		2	60.00	4.10	2.47	1,215.24	
		2	60.00	2.50	2.47	741.00	
		2	120.00	1.85	2.47	1,096.68	
	Muro tipo 2	4	15.00	12.00	0.89	640.80	
		2	3.00	12.00	1.58	113.76	
		2	38.00	4.35	1.58	522.35	
		2	38.00	1.85	1.58	222.15	
		2	38.00	4.35	2.47	816.58	
		2	38.00	2.50	2.47	469.30	
		2	76.00	1.85	2.47	694.56	
	Murotipo 3 y 3p	1	3.00	12.00	1.58	56.88	
		1	3.00	11.40	1.58	54.04	
		2	3.35	74.00	1.58	783.36	
		2	1.65	74.00	1.58	385.84	
		1	3.00	12.00	1.58	56.88	
		2	4.35	38.00	1.58	522.35	
		2	1.65	38.00	1.58	198.13	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2	12.00	23.40	0.89	499.82	
		2	15.00	12.00	0.89	320.40	
	Losa P.A.	1	2.94	11.10	17.30	564.57	
		1	1.74	11.10	17.30	334.13	
	Vigas	2	8.00	11.80	3.85	726.88	
		2	4.00	11.80	2.47	233.17	
		2	2.00	11.30	0.89	40.23	
		2	56.00	2.00	0.89	199.36	
		4	12.40	1.00	12.80	634.88	
		7	6.00	1.60	0.89	59.81	
		7	6.00	0.90	0.40	15.12	
	Escalera	2	4.00	5.40	0.89	38.45	
		2	7.00	5.40	0.89	67.28	
		2	0.85	18.00	0.40	12.24	31,237.53
		1	3,343.11			3,343.11	3,343.11
							34,580.640

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

		1	4.80	12.20	21.36	1,250.84	1,250.84
		1	230.58	0.90		207.52	207.52
							1,458.360

930.0003N1 m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 250 mm

TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 250 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Drenaje depósito 1	15				15.000	
	Drenaje depósito 2	16				16.000	
	Drenaje rebosadero	10				10.000	41.000
							41.000

997.0294N1 ud ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL

ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL, HASTA UNA LONGITUD DE 25 M, EN TERRENO DURO, CON ROTURA DE PAVIMENTO POR MEDIO DE COMPRESOR, EXCAVACIÓN MECÁNICA, TUBO DE HORMIGÓN CENTRIFUGADO D=25 CM, RELLENO Y APISONADO DE ZANJA CON TIERRA PROCEDENTE DE LA EXCAVACIÓN, INCLUYE LIMPIEZA Y TRANSPORTE DE TIERRAS SOBRANTES A PIE DE CARGA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

		1				1.00	1.00
							1.000

410.0024N1 ud ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL

ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.

	Arqueta acometida a depósito	1				1.000	
	arqueta válvulas vaciado depósito	1				1.000	2.000
							2.000

410.0023N1 ud ARQUETA DE REGISTRO PARA DRENES 0,40 x 0,40 x 0,50 m

ARQUETA SUMIDERO CON UNAS DIMENSIONES DE 40 X 40 Y 50 CM DE PROFUNDIDAD, CON REJILLA Y CERCO DE FUNDICIÓN, REALIZADA CON BLOQUE HUECO DE HORMIGÓN VIBRADO DE 9 X 25 X 50 CM, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON ESQUINAS A MEDIA CAÑA, INCLUSO EXCAVACIÓN Y TRANSPORTE DE ESCOMBROS A VERTEDERO AUTORIZADO. TOTALMENTE EJECUTADA Y ACABADA SEGÚN NORMAS DE LA DIRECCIÓN FACULTATIVA.

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Depósito 1	1				1.000	
	Depósito 2	1				1.000	
	Rebosadero	1				1.000	
	Sala de bombas	1				1.000	4.000
							4.000

997.0036N2 ud VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 mm

VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 MM, CUERPO Y DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS EN ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Drenaje de depósitos	2				2.000	2.000
							2.000

997.0023N1 ud VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4"

VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4" (DN-100), CON SUS JUNTAS, TORNILLOS, TUERCAS Y RACORES EN ACERO INOXIDABLE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Drenaje sala de bombas	1				1.000	
							1.000
							1.000

997.0024N1 ud NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS)

NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS) O SIMILAR, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

		2				2.000	2.000
							2.000

997.0025N1 ud ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 mm

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 MM. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.000	2.000
							2.000
997.0026N1	m CABLE DE 4 x 2 x 0,9 mm EAPSP PARA LA CONEXIÓN DE LOS SENSORES						
	CABLE DE 4 X 2 X 0,9 MM EAPSP PARA LA CONEXIÓN DE LOS SENSORES DE NIVEL DEL DEPÓSITO DE ABASTECIMIENTO HASTA LA ERU.						
		35	1.000			35.000	35.000
							35.000
997.0011N1	ud ARMARIO METÁLICO PARA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC						
	ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.						
		1	1.00			1.00	1.00
							1.000
997.0027N1	ud CONVERSOR DE MEDIO IP A FO SM						
	SUMINISTRO E INSTALACIÓN DE CONVERSOR DE MEDIO ETHERNET (10BASE-T) O FAST ETHERNET (100BASE-TX) SOBRE FIBRA ÓPTICA MONOMODO (SM), FORMATO CAJA DE SOBREMESA O SOBRE CARRIL DIN, 3U DE ALTURA Y ALIMENTACIÓN ENTRE +9 Y 36 VCC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN. TOTALMENTE PROBADO Y FUNCIONANDO.						
		2				2.000	2.000
							2.000
997.0017N1	ud CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS PARA 4 CONECTORES						
	INSTALACIÓN DE CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS ADECUADO HASTA PARA 4 CONECTORES SC/PC, I/ PEQUEÑO MATERIAL. TOTALMENTE,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0015N1	ud EMPALME DE SEGREGACION DE FIBRA ÓPTICA						
	REALIZACIÓN DE EMPALME DE SEGREGACIÓN DE FIBRA ÓPTICA, I/ MATERIAL NECESARIO PARA SU REALIZACIÓN.						
		1				1.00	1.00
							1.000
997.0018N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 micras, 8 FIBRAS						
	INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Sensor - ERU	20	1.00			20.00	20.00
							20.000
997.0029N1	ud PLC DE CONTROL 32 ED 16 SD (2 TARJETAS DE 16 ED)						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						
		1				1.000	1.000
							1.000
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm						
	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM,						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.						
	Sensor - ERU	35	1.000			35.000	35.000
							35.000

ELEMENTO 04.2.1.1.3 SISTEMA DE LLENADO DE ARQUETAS DE RECOGIDA DE VERTIDOS

997.0037N1 ud VÁLVULA REDUCTORA DE PRESIÓN LATÓN DE DIÁMETRO 1 1/4"

VÁLVULA REDUCTORA DE PRESIÓN DE LATÓN DE DIÁMETRO 1 1/4", INCLUSO ROSCADO A TUBO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

.

Calzada derecha	1			1.000	
Calzada izquierda	1			1.000	2.000
					2.000

997.0031N1 ud VÁLVULA ESFERA PN-16, DIÁMETRO 1 1/4"

VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Calzada derecha	1			1.000	
Calzada izquierda	1			1.000	2.000
					2.000

997.0295N1 ud ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL

ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL CON TUBERÍA DE ACERO GALVANIZADO DE 1" DE DIÁMETRO CON T REDUCCIÓN DE 1 1/4" A 1", VÁLVULA DE 1/4 DE VUELTA Y VÁLVULA DE FLOTADOR, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Calzada derecha	24			24.00	

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Calzada izquierda	24				24.00	48.00
		4				4.00	4.00
	Según medición auxiliar	4				4.00	4.00
							56.000

ELEMENTO 04.2.1.1.4 ABASTECIMIENTO A DEPÓSITO DE PCI

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Abastecimiento a depósito	1	321.00	1.00	1.00		321.00	321.00
							321.000

332.0060 m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA

RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

Abastecimiento a depósito	1	314.00	1.00	1.00		314.00	314.00
							314.000

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Abastecimiento a depósito	1	40.00	1.00	1.00	40.00	
							40.00
							40.000
610.0050	m³ HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Abastecimiento a depósito	1	1.00	2.00	1.00	2.00	2.00
							2.000
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN						
	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.						
	Abastecimiento a depósito	1	1.500	3.340	0.100	0.501	0.501
							0.501
932.0002N2	m TUBERÍA DE POLIETILENO DE Ø 110 mm HASTA PT-16 ATMÓSFERAS						
	TUBERÍA DE POLIETILENO Ø DE 110 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
	Abastecimiento a depósito	1	145.000	1.000	1.000	145.000	
							145.000
							145.000
997.0035N1	ud TAPA DE FUNDICIÓN DE 1 x 1 m						
	TAPA DE FUNDICIÓN DE 1 X 1 M.						
	Arquetas	1				1.00	1.00
							1.000
997.0032N1	ud VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 80 mm						
	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 80 MM, PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Conexión equipo bombeo	2	1.000	1.000	1.000	2.000	
							2.000
							2.000

SUBAPARTADO 04.2.1.2 INSTALACIÓN ELÉCTRICA. MEDIA TENSIÓN

997.0039N1	m LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T.						
	LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T. CON CONDUCTOR AISLADO AL-RHZ1 18/30 KV DE 150 MM2 ENTUBADO, TOTALMENTE TERMINADO, INCLUYENDO EXCAVACIÓN Y TAPADO DE ZANJA, TUBO DE PVC DE 160 MM DE DIÁMETRO, BAJANTE POR EL APOYO Y CEGADO DEL TUBO CON ESPUMA DE POLIURETANO Y TERMINALES DE CONEXIÓN, INCLUYENDO PARTE PROPORCIONAL DE SECCIONADORES Y TODA LA INSTALACIÓN A REALIZAR EN EL APOYO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca este	1	195.00			195.00	195.00
							195.000
997.0044N1	ud CELDA DE LÍNEA						
	CELDA DE LÍNEA, MODELO CGM36-CML Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, SECCIONADOR DE PUESTA A TIERRA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-1 (OSTE)	2				2.00	
	CT-2 (ESTE)	2				2.00	4.00
							4.000
997.0041N1	ud CELDA DE SECCIONAMIENTO						
	CELDA DE INTERRUPTOR PASANTE (SECCIONAMIENTO),						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MODELO CGM36-CMIP Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTO-CIRCUITO 40 KA CRESTA, MANDO MANUAL, Y EMBARRA-DO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-1	1				1.00	
	CT-2	1				1.00	2.00
							2.000
997.0042N1	ud CELDA DE MEDIDA						
	CELDA DE MEDIDA, MODELO CGM36-CMM Ó SIMILAR, CONTENIENDO 3 TRAFOS DE T. RELACIÓN X/ 3 / 110/ 3 V, 50 VA, CLASE 0.5, 36 KV Y 3 TRAFOS I. RELACIÓN X / 5 A, 15 VA, CLASE 0.5, 36 KV, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-1	1				1.00	
	CT-2	1				1.00	2.00
							2.000
997.0043N1	ud CELDA DE PROTECCIÓN GENERAL						
	CELDA DE PROTECCIÓN GENERAL, CON INTERRUPTOR AU-TOMÁTICO MOTORIZADO, MODELO CGM36-CMP-V O SIMI-LAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUP-TOR AUTOMÁTICO III, VN = 36 KV, IN = 400 A, ICC = 16 KA, MANDO MOTOR, CON BOBINAS DE CIERRE Y DISPARO ASO-CIADA AL RELÉ DE PROTECCIÓN Y CONTACTOS AUXILIARES. SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, RELÉ DE PROTECCIÓN, TRANSFORMADORES DE INTENSIDAD TOROI-DALES PARA PROTECCIÓN, EMBARRADO Y AISLADORES TES-TIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SE-GÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CT-OESTE	1				1.00	
	CT-OESTE	1				1.00	2.00
							2.000
997.0013N1	ud ARMARIO DE CONTADORES						
	ARMARIO DE CONTADORES DE DIMENSIONES ADECUADAS VACÍO, PREPARADO PARA ALOJAR EN SU INTERIOR UN EQUIPO DE MEDIDA MULTIFUNCIÓN CLASE 1, REGLETA DE COMPROBACIÓN DE 10 ELEMENTOS, CABLEADO Y TODOS LOS ACCESORIOS NECESARIOS, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMEN-TE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	En CTS	2				2.00	2.00
							2.000
997.0045N1	ud CELDA DE PROTECCIÓN DE TRANSFORMADOR						
	CELDA DE PROTECCIÓN DE TRANSFORMADOR DE POTEN-CIA, MODELO CGM36-CMP-F+RELE Ó SIMILAR, CON AISLA-MIENTO Y CORTE EN SF6, CON INTERRUPTOR ROTATIVO III, VN = 36 KV, IN = 400 A, MANDO MANUAL, PORTAFUSIBLES Y CARTUCHOS FUSIBLES DE 36 KV, RELÉ TRIFÁSICO DE PRO-TECCIÓN DE TRANSFORMADOR, SECCIONADOR III DE PUES-TA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIR-CUITO 40 KA CRESTA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.						
	CT-1	1				1.00	
	CT-2	1				1.00	
							2.00
							2.000
997.0046N1	ud INTERCONEXIÓN CELDA - TRAFO						
	INTERCONEXIÓN DE CELDA DE MEDIA TENSIÓN CON TRANSFORMADOR DE POTENCIA, FORMADA POR CABLE DE AL DE AISLAMIENTO SECO DE 1 X 95 MM2, UN JUEGO DE 3 BORNAS ELASTIMOLD, REF: K-158 LR Y 3 CONOS DIFUSO-RES ELASTIMOLD, REF: MSC, PARA SER INSTALADOS EN LOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EXTREMOS DEL CABLE ANTERIOR Y TODOS LOS ACCESO-RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-1	1				1.00	
	CT-2	1				1.00	
							2.00
							2.000
997.0047N1	ud BORNAS DE CONEXIÓN DE MEDIA TENSIÓN APANTALLADAS BORNAS DE CONEXIÓN DE MDEIA TENSIÓN APANTALLA-DAS, TIPO ELASTIMOLD O SIMILAR, PARA SU INSTALACIÓN EN LA ENTRADA DE LAS CELDAS DE LÍNEA, CON TODOS LOS ACCESORIOS NECESARIOS, I/ INCLUSO PEQUEÑO MA-TERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIO-NANDO. SEGÚN PPTP.						
	CT-1	3	2.00			6.00	
	CT-2	3	2.00			6.00	12.00
							12.000
997.0048N1	ud EQUIPO DE SEGURIDAD						
	EQUIPO DE SEGURIDAD QUE COMPRENDE:						
	- COMPROBADOR ÓPTICO Y ACÚSTICO DE AUSENCIA DE TENSIÓN AUTOVERIFICABLE DE 600 V C.C.						
	- VERIFICADOR DE AUSENCIA DE TENSIÓN LUMINOSO CON COMPROBADOR PIEZOELÉCTRICO INCORPORADO Y PÉRTI-GA TELESCÓPICA						
	- BANQUETA AISLANTE PARA SERVICIO INTERIOR HASTA 36 KV						
	- EQUIPO DE PUESTA A TIERRA						
	- ESCALERA PARA TRABAJOS ELÉCTRICOS DE FIBRA						
	- GUANTES AISLANTES PARA TRABAJOS ELÉCTRICOS EN 36 KV, CON COFRET METÁLICO CONSERVACIÓN Y FIJACIÓN MURAL						
	- REANIMADOR PARA RESPIRACIÓN ARTIFICIAL CON CAJA DE PLÁSTICO HERMÉTICA						
	- MANTA IGNÍFUGA PARA EXTINCIÓN DE INCENDIOS						
	- PLACAS DE SEÑALIZACIÓN PARA RESPIRACIÓN ARTIFICIAL E INSTRUCCIONES DE AUXILIO EN CASO DE ACCIDENTE ELÉCTRICO						
	- PLACAS DE SEÑALIZACIÓN DE RIESGO ELÉCTRICO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CT-1	1				1.00	
	CT-2	1				1.00	2.00
							2.000
997.0050N1	ud TRANSFORMADOR DE POTENCIA DE 1000 kVA TRANSFORMADOR DE POTENCIA DE 1000 KVA, 25 / 0.40 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAP-SULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESO-RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0049N1	ud TRANSFORMADOR DE POTENCIA DE 800 kVA TRANSFORMADOR DE POTENCIA DE 800 KVA, 25 / 0.42 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAP-SULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESO-RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0051N1	ud PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMADOR PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMA-DOR, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-1	1	1.00			1.00	
	CT-2	1	1.00			1.00	
							2.00
							2.000
997.0073N1	ud DERECHOS DE ACOMETIDA A LA RED DE COMPAÑÍA ELÉCTRICA EN M.T. DERECHOS DE ACOMETIDA A LA RED DE LA COMPAÑÍA ELÉCTRICA EN MEDIA TENSIÓN. (CUOTA DE ACCESO, DERE-CHOS DE ENGANCHE Y DERECHOS DE VERIFICACIÓN SE-						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	GÚN R.D.1955/2000, DE 1 DE DICIEMBRE, POR EL QUE SE REGULAN LAS ACTIVIDADES DE TRANSPORTE, DISTRIBUCIÓN, COMERCIALIZACIÓN, SUMINISTRO Y PROCEDIMIENTOS DE AUTORIZACIÓN DE INSTALACIONES DE ENERGÍA ELÉCTRICA). PRECIO FIJADO SEGÚN LA TARIFA VÁLIDA PARA EL AÑO 2006 SEGÚN R.D. 1556/2005, DE 28 DE DICIEMBRE.						
		1				1.00	1.00
							1.000
997.0052N1	ud EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC)						
	EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC), PARA INCLUIR TRANSFORMADOR DE 800 Ó 1000 KVA, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000

SUBAPARTADO 04.2.1.3 INSTALACIÓN ELÉCTRICA. BAJA TENSIÓN

ELEMENTO 04.2.1.3.1 SISTEMAS DE ALIMENTACIÓN DE EMERGENCIA

997.0053N1	ud SAI TRIFÁSICO 12 kVA						
	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	SALA CONTROL	1				1.00	1.00
							1.000
997.0054N1	ud SAI TRIFÁSICO 40 kVA						
	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA SAI-01, TRIFÁSICO DE 40 KVA, 400/230 V, CON AUTONOMÍA DE 60 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	2				2.00	2.00
							2.000
997.0055N1	ud DEPÓSITO DE COMBUSTIBLE DE 3000 l						
	DEPÓSITO DE COMBUSTIBLE DE 3000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.						
	Según mediición auxiliar	2				2.00	2.00
							2.000
997.0057N1	ud GRUPO ELECTRÓGENO 408 kW						
	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 408 KW / 510 KVA EN SERVICIO CONTINUO Y 449 KW / 562 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT ESTE	1				1.00	1.00
							1.000
997.0058N1	ud GRUPO ELECTRÓGENO 530 kW						
	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 530 KW / 662 KVA EN SERVICIO CONTINUO Y 582 KW / 728 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CT-OESTE	1				1.00	1.00
							1.000
997.0056N1	ud GRUPO ELECTRÓGENO 102 kW						
	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 102 KW / 127,5 KVA EN SERVICIO CONTINUO Y 112,5 KW / 141 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT ESTE	1				1.00	1.00
							1.000
	ELEMENTO 04.2.1.3.2 CUADROS ELÉCTRICOS						
997.0059N1	ud CUADRO GENERAL DE BAJA TENSIÓN 1						
	CUADRO GENERAL DE BAJA TENSIÓN CGBT-1, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0060N1	ud CUADRO GENERAL DE BAJA TENSIÓN 2						
	CUADRO GENERAL DE BAJA TENSIÓN CGBT-2, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0063N1	ud ARRANCADOR SUAVE PARA MOTOR VENTILADOR 45 kW, 400 V Y 50 Hz						
	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 45 KW, 400 V Y 50 HZ, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Según mediición auxiliar	8				8.00	8.00
							8.000
997.0066N1	ud BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 kVAr						
	BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 KVAR (10+(4X50)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CGBT-2	2				2.00	2.00
							2.000
997.0065N1	ud BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 kVAr						
	BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 KVAR (5+(6X30)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CGBT-1	3				3.00	3.00
							3.000
997.0064N1	ud ARRANCADOR SUAVE PARA MOTOR VENTILADOR 55 kW, 400 V Y 50 Hz						
	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BLE DE 55 KW, 400 V Y 50 HZ, I/ PEQUEÑO MATERIAL. TO-TALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SE-GÚN PPTP.						
	Según mediición auxiliar	14				14.00	14.00
							14.000
997.0061N1	ud CUADRO SECUNDARIO GALERÍA SAI CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO SAI 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA ME-DIANTE CERRADURA, COMPUESTO POR EMBARRADO GENE-RAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATIS-MO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALI-DA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CON-TACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALA-DO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍA 1	1				1.00	
	GALERÍA 2	1				1.00	
	GALERÍA 3	1				1.00	
	GALERÍA 4	1				1.00	4.00
							4.000
997.0062N1	ud CUADRO SECUNDARIO GALERÍA GRUPO CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO GRUPO 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUER-TA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMA-TISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TEN-SIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN						
	GALERÍA 1	1				1.00	
	GALERÍA 2	1				1.00	
	GALERÍA 3	1				1.00	
	GALERÍA 4	1				1.00	4.00
							4.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALA-DO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍA 1	1				1.00	
	GALERÍA 2	1				1.00	
	GALERÍA 3	1				1.00	
	GALERÍA 4	1				1.00	4.00
							4.000
997.0161N1	m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN RE-JILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRA-JES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRA-DOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJA-CIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBA-ÑILERÍA).						
	ED. CONTROL	1				1.00	1.00
							1.000
997.0162N1	m² PINTURA AL SILICATO INTERIORES PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SO-BRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SI-LICATO TIPO RESTASIL PRIMER.						
	ED. CONTROL	1				1.00	1.00
							1.000
	ELEMENTO 04.2.1.3.3 ALUMBRADO Y TOMAS DE CORRIENTE						
1102.0051	m BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN EJECUCIÓN DE BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN (10<H<12 M) INCLUIDO EXCAVACIÓN, HOR-MIGÓN DE LIMPIEZA, HORMIGÓN PARA ZAPATA DE CIMEN-TACIÓN, ARMADURAS EN CASO NECESARIO, ENCOFRADO, IMPERMEABILIZACIÓN CON BREA, RELLENO LOCALIZADO PERNOS DE ANCLAJE Y TODAS LAS OPERACIONES Y ME-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN SIGUIEN-DO INSTRUCCIONES DE LA DIRECCIÓN FACULTATIVA.						
	Fotómetros	2				2.00	2.00
							2.000
997.0070N1	ud SUMINISTRO DE LUMINARIA LED 212 W PARA ALUMBRADO EXTERIOR						
	SUMINISTRO DE LUMINARIA IP-66/IK08 LED 212 W PARA ALUMBRADO EXTERIOR, INCLUIDO LÁMPARA DE 80 LED, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, I/ ANCLAJE QUÍMICO PARA COLOCACIÓN DE LUMINARIA DE ALUMBRADO VIARIO EN ESTRUCTURAS O PUENTES. TOTAL-MENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca oeste	16				16.00	
	Boca este	24				24.00	40.00
							40.000
997.0068N1	ud SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W						
	SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W CON EQUIPO DE EMERGENCIA, CON DIFUSOR TRANSPA-RENTE DE POLICARBONATO FABRICADO EN UNA SOLA PIE-ZA, CON PRISMAS INTERIORES DE ALTA EFICACIA LUMINO-SA Y CIERRES INVISIBLES. CUERPO DE LA LUMINARIA EN PO-LICARBONATO Y DIFUSOR EN CHAPA DE ACERO, LACADO EN BLANCO, GRADO DE PROTECCIÓN IP-66/IK07, EQUIPO DE ENCENDIDO ELECTRÓNICO, INCLUIDO P.P. DE LÁMPA-RAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DES-COLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALA-CIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIO-NAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁN-DOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMI-NADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDI-RECTOS Y DE MEDIOS AUXILIARES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Túnel	173				173.00	173.00
							173.000
997.0067N1	ud SUMINISTRO DE LUMINARIA LED IP66/IK07 103 W 48 LED						
	PROYECTOR LED 103 W DALI, INTEGRADO POR 48 LED DE ALTO FLUJO LUMINOSO Y UN SISTEMA DE LENTES FLEXI-BLE, IP66; CUERPO DE ALUMINIO QUE INTEGRA EL BLOQUE DE AUXILIARES ELECTRÓNICOS Y EL BLOQUE ÓPTICO, ACCE-SIBLES IN SITU. CIERRE CON MARCO DE ALUMINIO Y PRO-TECTOR DE VIDRIO, INCLUIDO LÁMPARA, EQUIPO, CANALI-ZACIÓN, CONDUCTORES Y ACCESORIOS, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLAN-TEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMEN-TOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. IN-CLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIEN-TO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.						
	Calzada derecha	1	75.00			75.00	75.00
	Calzada izquierda	1	75.00			75.00	75.00
	Calzada derecha, alumbrado seguridad	1	40.00			40.00	40.00
	Calzada izquierda, alumbrado seguridad	1	40.00			40.00	40.00
							230.000
997.0072N1	ud SUMINISTRO DE CAJA TIPO TCT						
	SUMINISTRO DE CAJA TIPO TCT, CONTENIENDO EN SU INTE-RIOR 1 BASE 2P+T 16 A Y 1 BASE 3P+N+T 16 A Y UN MAG-NETOTÉRMICO DE 16 A, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIO-NANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		36				36.00	36.00
							36.000
997.0074N1	ud FOTÓMETRO A ENTRADA A TÚNEL						
	SUMINISTRO E INSTALACIÓN DE FOTÓMETRO DE ENTRADA A TÚNEL PARA REGULACIÓN AUTOMÁTICA DE ILUMINACIÓN SEGÚN LAS RECOMENDACIONES DE LA CEI, CON LAS SIGUIENTES CARACTERÍSTICAS, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP:						
	ELEMENTO DETECTOR: FOTODIODO DE SILICIO CON FILTRO V						
	ANGULO DE MEDIDA. 20º						
	PRECISIÓN: MEJOR QUE +/- 3%						
	SEÑAL DE SALIDA: 4 - 20 MA						
	MONTAJE: SOBRE SOPORTE AJUSTABLE						
	Boca Norte	1				1.00	
	Boca Sur	1				1.00	2.00
							2.000
997.0075N1	ud COLUMNA METÁLICA DE 12 m						
	COLUMNA METÁLICA DE 12 M DE ALTURA, DE DIÁMETROS DE 60 MM, TRONCOCÓNICA, CONSTRUIDA EN CHAPA DE ACERO DE 3 MM DE ESPESOR, CON PUERTA, PLETINA PARA CUADRO Y TORNILLO PARA TOMA DE TIERRA. EL CONJUNTO ESTARÁ GALVANIZADO EN CALIENTE POR INMERSIÓN CON UN ESPESOR MÍNIMO DEL RECUBRIMIENTO DE 450 G/M2 (UNE-37-501-71), CUMPLIENDO CON EL PLIEGO DE CONDICIONES E INCLUYENDO TRANSPORTE Y MONTAJE Y EXCLUYENDO LA CIMENTACIÓN.						
	Boca oeste	16				16.00	
	Boca este	24				24.00	40.00
							40.000
997.0076N1	ud REGULADOR DALI DE ALUMBRADO						
	REGULADOR DALI DE ALUMBRADO BASADO EN MICROPRO-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CESADOR, PUERTO RS-485, INCLUSO CABLEADO DE INTERCONEXIÓN, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		12				12.00	12.00
							12.000
997.0077N1	m CABLE DE 2 x 2 x 0,9 mm, EAPS-R						
	INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.						
	Enlace fotómetro entrada norte	150				150.00	
	Enlace fotómetro entrada sur	150				150.00	300.00
	Calzada izquierda	43				43.00	
	Calzada derecha	43				43.00	86.00
							386.000
997.0078N1	ud BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL						
	BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL, COLOR AZUL, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.						
		42				42.00	42.00
							42.000
997.0033N1	ud COLUMNA DE 6 m PARA FOTÓMETRO						
	INSTALACIÓN DE COLUMNA DE 6 M PARA FOTÓMETRO DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BOCA NORTE, VELETA Y CORTAVIENTOS DE BOCA NORTE.						
		2				2.000	2.000
							2.000

997.0067N2 ud SUMINISTRO DE LUMINARIA LED IP69/IK09/700mA 89 W-40 LED

SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 40LED (89W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 40LED DE ALTA EMISIÓN ALIMENTADOS A 700 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 89W Y FLUJO INICIAL DE 14.600LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	TUBO 1 (EXIT)	2				2.00	
	TUBO 2 (EXIT)	2				2.00	
	TUBO 1	118				118.00	
	TUBO 2	118				118.00	240.00
							240.000

997.0067N3 ud SUMINISTRO DE LUMINARIA LED IP69/IK09/750mA 140 W-60 LED

SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 60LED (140W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 60LED DE ALTA EMISIÓN ALIMENTADOS A 750 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 140W Y FLUJO INICIAL DE 22.700LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	TUBO 1 (EXIT)	2				2.00	
	TUBO 2 (EXIT)	2				2.00	
	TUBO 1	6				6.00	
	TUBO 2	4				4.00	14.00
							14.000

997.0067N4 ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 212 W-80 LED

SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 80LED (212W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 80LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 212W Y FLUJO INICIAL DE 33.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 786MM. PESO: 16 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

TUBO 1 (EXIT)	6				6.00	
TUBO 2 (EXIT)	4				4.00	
TUBO 1	12				12.00	
TUBO 2	10				10.00	32.00
						32.000

997.0067N5 ud SUMINISTRO DE LUMINARIA LED IP69/IK09/800mA 396 W-160 LED

SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (396W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 800 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 396W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO,

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.						
	TUBO 1 (EXIT)	2				2.00	
	TUBO 2 (EXIT)	2				2.00	
	TUBO 1	6				6.00	
	TUBO 2	4				4.00	14.00
							14.000
997.0067N6	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 448 W-160 LED						
	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (448W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 448W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001,						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.						
	TUBO 2	2				2.00	2.00
							2.000
997.0067N7	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 624 W-240 LED						
	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 240LED (624W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 240LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 624W Y FLUJO INICIAL DE 99.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1564MM. PESO: 32 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

TUBO 1 (EXIT)	4		4.00		
TUBO 2 (EXIT)	4		4.00		
TUBO 1	90		90.00		
TUBO 2	82		82.00	180.00	
					180.000

997.0301N1 u PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 lm (61 W)

SUMINISTRO, MONTAJE E INSTALACIÓN DE PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 LM (61 W). INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	GALERÍAS	14	4.00			56.00	56.00
							56.000

ELEMENTO 04.2.1.3.4 PUESTA A TIERRA

997.0081N1 m CONDUCTOR DE COBRE DESNUDO DE 50 mm"

CONDUCTOR DE COBRE DESNUDO DE 50 MM2 INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

					3,650.000

997.0082N1 ud REGISTRO DE COMPROBACIÓN Y TAPA

REGISTRO DE COMPROBACIÓN Y TAPA INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

					30.000

997.0083N1 ud PUENTE DE PRUEBA

PUENTE DE PRUEBA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.

					30.000

997.0084N1 ud SOLDADURA ALUMINOTÉRMICA

SOLDADURA ALUMINOTÉRMICA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.

					180.000

997.0085N1 ud EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 x 6 mm

EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 X 6 MM, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							24.000
997.0235N1	ud PUENTE DE CONEXIÓN DE TIERRAS PUENTE DE CONEXIÓN DE TIERRAS, TOTALMENTE INSTALADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
							16.000
997.0236N1	ud PICA DE PAT DE 2000 mm x 14,6 mm PICA DE ACERO COBRE DE 14,6 MM DE DIAMETRO Y 2000 MM DE LONGITUD, I/ GRAPA DE CONEXION Y RESTO DEL MATERIAL TOTALMENTE MONTADA Y CONEXIONADA.						
							180.000
	ELEMENTO 04.2.1.3.5 BANDEJAS Y CABLES						
997.0237N1	m BANDEJA PERFORADA DE 400 x 60 x 0,8 mm EN ACERO BANDEJA PERFORADA DE 400 X 60 X 0,8 MM EN ACERO GALVANIZADO EN CALIENTE SEGÚN NORMA UNE-EN-ISO-1461, CUMPLE CON LA NORMA Y ENSAYO DIN 4102-12 DE RESISTENCIA AL FUEGO E90 A 1.000 ºC. CONTINUIDAD ELÉCTRICA GARANTIZADA MEDIANTE CABLE DE PROTECCIÓN DE COBRE DESNUDO DE 16 MM2 CON CONEXIONES A LA BANDEJA SEGÚN NORMATIVA, RESISTENTE A LA CORROSIÓN CLASE 7, CON 70 MICRAS DE ESPESOR DE GALVANIZADO EN CALIENTE, I/ MATERIAL AUXILIAR DE UNION, FIJACION Y ANCLAJE TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Túnel izquierdo	4.5	852.00		3,834.00		
	Túnel derecho	4.5	859.00		3,865.50		
	Galerías	4	120.00		480.00	8,179.50	
							8,179.500
997.0239N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 50 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 50) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CT-OESTE	1	7,160.00			7,160.00	
	CT-ESTE	1	6,160.00			6,160.00	13,320.00
							13,320.000
997.0238N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 35 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 35) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	2,440.00			2,440.00	
	CT-ESTE	1	7,980.00			7,980.00	10,420.00
							10,420.000
997.0240N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 70 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 70) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	4,720.00			4,720.00	4,720.00
							4,720.000
997.0241N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 95 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 95) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	160.00			160.00	
	CT-ESTE	1	160.00			160.00	320.00
							320.000
997.0242N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 120 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 120) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIO-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	NANDO. SEGÚN PPTP.						
	CT-OESTE	1	40.00			40.00	
	CT-ESTE	1	40.00			40.00	80.00
							80.000
997.0243N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 185 mm²						
	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 185) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPOR-CIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIO-NANDO. SEGÚN PPTP.						
	CT-OESTE	1	650.00			650.00	
	CT-ESTE	1	650.00			650.00	1,300.00
							1,300.000
997.0244N1	m CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 240 mm²						
	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 240) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPOR-CIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIO-NANDO. SEGÚN PPTP.						
	CT-OESTE	1	130.00			130.00	
	CT-ESTE	1	130.00			130.00	260.00
							260.000
997.0245N1	m CONDUCTOR DE COBRE DESNUDO DE 35 mm²						
	CONDUCTOR DE COBRE DESNUDO DE 35 MM2, TOTALMEN-TE INSTALADO, I/ PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.						
	Tubo izquierdo	2	882.00			1,764.00	
	Tubo derecho	2	889.00			1,778.00	3,542.00
							3,542.000
997.0246N1	ud TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A						
	TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A, TOTAL-MENTE TERMINADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Galerías	4				4.00	4.00
							4.000
997.0247N1	m CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 mm²						
	CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 MM2, INSTALA-DO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PRO-BADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	4,205.00			4,205.00	
	CT-ESTE	1	3,851.00			3,851.00	8,056.00
							8,056.000
997.0248N1	m CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 mm²						
	CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 MM2, INSTALA-DO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PRO-BADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	645.00			645.00	
	CT-ESTE	1	760.00			760.00	1,405.00
							1,405.000
997.0249N1	m CABLE DE COBRE DE RZ1-K 0.6/1 KV DE 3G2,5 mm² AFUMEX						
	CABLE DE COBRE DE 0.6/1 KV DE 3G2,5 MM2 DEL TIPO AFU-MEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HA-LÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONE-XIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPAL-MES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CT-OESTE	1	1,040.00			1,040.00	
	CT-ESTE	1	1,390.00			1,390.00	2,430.00
							2,430.000
997.0250N1	m CABLE DE COBRE DE RZ1-K 0.6/1 KV DE 5G6 mm² AFUMEX						
	CABLE DE COBRE DE 0.6/1 KV DE 5G6 MM2 DEL TIPO AFU-MEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HA-LÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONE-XIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPAL-MES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CT-OESTE	1	8,709.00			8,709.00	
	CT-ESTE	1	9,526.00			9,526.00	18,235.00
							18,235.000

997.0251N1 m CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 3G2,5 mm²

CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 3G2.5 MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	CT-OESTE	1	3,075.00			3,075.00	
	CT-ESTE	1	2,925.00			2,925.00	6,000.00
							6,000.000

997.0252N1 m CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 5G6 mm²

CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G6 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	CT-OESTE	1	17,388.00			17,388.00	
	CT-ESTE	1	16,692.00			16,692.00	34,080.00
							34,080.000

997.0253N1 m CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 5G16 mm²

CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G16 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	CT-OESTE	1	995.00			995.00	
	CT-ESTE	1	1,026.00			1,026.00	2,021.00
							2,021.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

SUBAPARTADO 04.2.1.4 VENTILACIÓN

997.0254N1 ud SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE

SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE, MOTOR DE 45 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

							8.000

997.0255N1 ud ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES

ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.

		1		1.00	1.00		
							1.000

997.0256N1 ud ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES

ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES.

		1		1.00	1.00		
							1.000

997.0257N1 ud PRUEBAS DE VENTILADORES DE CHORRO SEGÚN PLIEGO DE CONDICIONES

DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES.

		1		1.00	1.00		
							1.000

997.0258N1 ud VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.						
		1				1.00	1.00
							1.000
997.0259N1	ud REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES						
	REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES.						
		3				3.00	3.00
							3.000
997.0260N1	ud REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES						
	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.						
		1				1.00	1.00
							1.000
997.0261N1	ud DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES						
	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.						
		1				1.00	1.00
							1.000
997.0262N1	ud ANEMÓMETRO DE HÉLICE MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL						
	ANEMÓMETRO DE HÉLICE PARA MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL, RANGO -25 : +25 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada derecha - lado norte	1				1.00	
	Calzada derecha - lado sur	1				1.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Calzada izquierda - lado sur	1				1.00	
	Calzada izquierda - lado norte	1				1.00	4.00
							4.000
997.0263N1	ud ANEMÓMETRO DE CAZOLETA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR						
	ANEMÓMETRO DE CAZOLETA PARA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR, RANGO 0 - 40 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca norte	1				1.00	1.00
							1.000
997.0290N1	ud CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO						
	DE CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca norte	1				1.00	1.00
							1.000
997.0289N1	ud VENTILADOR REVERSIBLE 100 % DE 1663 N DE EMPUJE						
	SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1663 N DE EMPUJE, MOTOR DE 55 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		14				14.00	14.00
							14.000
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm						
	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Ventilación	96				96.000	96.000
							96.000
997.0288N1	ud PUERTA CONTAFUEGOS RF-120 900 x 2000 mm						
	PUERTA METÁLICA CORTAFUEGOS DE DOS HOJAS PIVOTANTES DE 900X2000 MM HOMOLOGADA RF-120, CONSTRUIDA CON DOS CHAPAS DE ACERO ELECTROCINCADO DE 0,80 MM. DE ESPESOR Y CÁMARA INTERMEDIA DE MATERIAL AISLANTE IGNÍFUGO, SOBRE CERCO ABIERTO DE CHAPA DE ACERO GALVANIZADO DE 1,20 MM Y DOTADA DE MIRILLA CIRCULAR. DE ESPESOR, CON SIETE PATILLAS PARA FIJACIÓN A OBRA, CERRADURA EMBUTIDA Y CREMONA DE CIERRE AUTOMÁTICO, SISTEMA DE APERTURA ANTIPÁNICO, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, INCLUSO ACABADO EN PINTURA EPOXI POLIMERIZADA AL HORNO. CON DOBLE PUERTA PEATONAL, LA DERECHA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO TÚNEL-GALERÍA , LA IZQUIERDA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO GALERÍA-TÚNEL. SEGÚN PPTP						
		2	4.00			8.00	8.00
							8.000
997.0287N1	ud OPACÍMETROS POR DISPERSIÓN DE LUZ						
	OPACÍMETROS POR DISPERSIÓN DE LUZ CON ÁNGULO DE 30 GRADOS, CON DOBLE HAZ LUMINOSO, SISTEMA DE MEDIDA DE AUTOCALIBRACIÓN CON CONTROL CONTINUO DEL PUNTO CERO Y VALOR 100%, MARGEN DE MEDIDA 0 ... 15 X 0,001 /M INCLUIDO BARRA DE VERIFICACIÓN, CON CONTROL POR MICROORDENADOR, SALIDA POR BUS ORNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	TOTAL	4				4.00	4.00
							4.000
997.0001N1	ud VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 kW, UN CAUDAL DE 12.900 m³/h, 200 Pa						
	SUMINISTRO Y MONTAJE DE VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 KW, UN CAUDAL DE 12.900 M³/H, 200 PA Y RESTO DE CARACTERÍSTICAS SEGÚN PLANOS. INCLUYENDO PABELLÓN DE ASPIRACIÓN CON TELA METÁLICA PROTECTORA, SOPORTES DE FIJACIÓN, JUNTAS ELÁSTICAS EN ASPIRACIÓN E IMPULSIÓN, TORNILLERÍA Y ACCESORIOS DE FIJACIÓN. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍAS	4	2.00			8.00	8.00
							8.000
997.0001N2	Ud SONDA DE SOBREPRESIÓN						
	SUMINISTRO, MONTEJE E INSTALACIÓN DE SONDA DE SOBREPRESIÓN, PARA CONTROLAR LA PRESIÓN EN SISTEMAS DE VENTILACIÓN EN PRESIÓN CONSTANTE. PERMITEN LA LECTURA DE LA DIFERENCIA DE PRESIONES ENTRE DOS PUNTOS Y LA TRANSFORMAN EN UNA SEÑAL ELÉCTRICA APTA PARA LOS DIFERENTES EQUIPOS DE CONTROL. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍAS	4	2.00			8.00	8.00
							8.000
997.0001N3	Ud REGULADOR DE TENSIÓN AUT.						
	SUMINISTRO, MONTEJE E INSTALACIÓN DE REGULADOR DE TENSIÓN AUTOMÁTICO. CONTROLADO POR MICROPROCESADOR QUE PERMITE VARIAR LA VELOCIDAD DE GIRO DE LOS VENTILADORES QUE SOPORTAN EN FUNCIÓN DE LAS SEÑALES ENVIADAS POR LA SONDA DE SOBREPRESIÓN. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍA	4	2.00			8.00	8.00
							8.000
997.0286N1	ud COMPUERTA CONTRAFUEGO 600 x 600 mm						
	COMPUERTA CORTAFUEGO DESTINADA A AISLAR LOS SECTORES DE INCENDIO DE 600X600 MM. CON CARCASA Y ELEMENTOS DE ACCIONAMIENTO DE ACERO GALVANIZADO, Y						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

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CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	UNA RESITENCIA AL FUEGO RF-120, INSTALADA CON MARCO DE ANCLAJE, I/FIJACIÓN Y RECIBIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	TOTAL	24				24.00	24.00
							24.000
997.0285N1	ud COMPUERTA DE SOBREPRESIÓN 600 x 600 mm						
	COMPUERTA DE SOBREPRESIÓN CON MARCO EN U DE ACERO GALVANIZADO Y LAMAS EN ALUMINIO PERFILADO DE 600X600 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍAS	4	4.00			16.00	16.00
							16.000
997.0284N1	m CABLE DE 1 x 2 x 0,9 mm, ARMADO, TRENZADO Y APANTALLADO LSZH						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, ARMADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Control de ventilación	92				92.00	92.00
							92.000
997.0283N1	m CABLE DE 2 x 2 x 0,9 mm, ARMADO, TRENZADO Y APANTALLADO LSZH						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 2X2X0.9 MM, ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Control de ventilación	105				105.00	105.00
							105.000
997.0282N1	ud CÉLULA ELECTROQUÍMICA DE CO						
	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DE CO, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Túnel sentido este	3				3.00	
	Túnel sentido oeste	3				3.00	6.00
							6.000
997.0281N1	ud CÉLULA ELECTROQUÍMICA DE NO2						
	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE NO2, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Túnel sentido este	3				3.00	
	Túnel sentido oeste	3				3.00	6.00
							6.000
	SUBAPARTADO 04.2.1.5 CANALIZACIONES						
997.0280N1	m TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 mm						
	TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 MM. DE DIÁMETRO EXTERIOR, INCLUIDA P.P. DE MANGUITOS, TAPONES Y SELLADO IGNÍFUGO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO HORMIGONADO, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		1	28,476.00			28,476.00	28,476.00
							28,476.000
997.0279N1	m CANALIZACION SUBTERRANEA HORMIGONADA 6 TUBOS PVC DIÁMETRO 110 mm						
	CANALIZACIÓN SUBTERRÁNEA HORMIGONADA, DE DIMENSIONES 0,40X0,80 M. INCLUSO MOVIMIENTO DE TIERRAS CON ZANJA EXCAVADA A MAQUINA, LECHO DE ARENA DE RÍO, CINTA SEÑALIZADORA Y 6 TUBOS DE PVC 110 MM DE DIÁMETRO, COMPLETAMENTE TERMINADA.						
	Cruce de calzadas y emboquilles tubo derecho	1	225.00			225.00	
	Cruce de calzadas y emboquilles tubo izquierdo	1	225.00			225.00	450.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							450.000
997.0278N1	ud ARQUETA TIPO III DE PASO, DERIVACIÓN O TOMA DE TIERRA						
	ARQUETA TIPO III DE PASO, DERIVACION O TOMA DE TIERRA CONSTRUIDA CON FABRICA DE LADRILLO ENFOSCADA INTERIORMENTE CON M-450, SEGUN PLANOS., INCLUSO MOVIMIENTO DE TIERRAS Y TAPA DE FUNDICION, SITUADA EN ACERA DE NUEVA CONSTRUCCION DE 0.20 M DE ESPESOR, COMPLETAMENTE TERMINADA						
	Calzada Derecha	61				61.00	
	Calzada Izquierda	59				59.00	120.00
							120.000
997.0277N1	ud ARQUETA 50 x 50						
	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 50X50 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.						
	Calzada izquierda	20				20.00	
	Calzada derecha	20				20.00	40.00
							40.000
997.0276N1	ud ARQUETA REGISTRO 80x80						
	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 80X80 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.						
	Calzada derecha	7				7.00	7.00
							7.000
997.0275N1	ud ARQUETA REGISTRO 80x50						
	ARQUETA DE REGISTRO DE 80X50 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Calzada izquierda	7				7.00	7.00
							7.000
997.0274N1	ud ARQUETA REGISTRO 150 x 100						
	ARQUETA DE REGISTRO DE 150X100 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.						
	Válvulas hidrantes	2				2.00	
	Válvulas reductoras de presión	4				4.00	
	Válvulas de seccionamiento	2				2.00	8.00
							8.000

SUBAPARTADO 04.2.1.6 MEGAFONÍA

ELEMENTO 04.2.1.6.1 EQUIPOS EN TÚNEL

997.0273N1	ud CAJA DE DERIVACIÓN DE MEGAFONÍA 90 x 90 x 42 mm						
	SUMINISTRO Y MONTAJE DE CAJA DE DERIVACIÓN DE PVC-M1 DE 90X90X42 MM, CON P.P. DE CABLE DE MEGAFONÍA 2,5 MM² HASTA ALTAVOZ O PROYECTOR SONORO, CLEMAS DE CONEXIÓN, Y ACCESORIOS DE FIJACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
	Derivación línea de megafonía - altavoz exponencial	70	1.00			70.00	
	Derivación línea de megafonía - proyector bidireccional	8	1.00			8.00	78.00
							78.000
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm						
	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.						
	Megafonía equipos en túnel	285	1.000			285.000	285.000
							285.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
997.0272N1	m CABLE DE MEGAFONÍA 2 (1 x 4) mm²						
	SUMINISTRO, MONTAJE E INSTALACIÓN DE CABLE DE COBRE PARALELO DE 2X4 MM2 (ROJO-NEGRO) PARA AUDIO, CLASE CPR: DCA S1, D0, A1 Y CUMPLIENDO CON LAS NORMATIVAS UNE 50265-2-1, UNE 50265-2-2 Y UNE 50266-2-2. NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE CAJAS DE DERIVACIÓN, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cable megafonía equipos en túnel sentido norte	2,950	2.00			5,900.00	5,900.00
							5,900.000
997.0271N1	ud PROYECTOR BIDIRECCIONAL EVACUACIÓN 10+10 W 100 V						
	SUMINISTRO E INSTALACIÓN DE PROYECTOR CILÍNDRICO BIDIRECCIONAL EVACUACIÓN, 10W, ABS, IP65 SEGÚN IEC 60529, BLANCO RAL 9010, 100V, MODELO LP1-BC10E-1 DE BOSCH, O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Proyectores en túnel	8				8.00	8.00
							8.000
997.0270N1	ud BOCINA EVACUACIÓN 30 W 100V						
	SUMINISTRO E INSTALACIÓN DE BOCINA DE EVACUACIÓN DE 25 W, 100 V, 425 X 355 MM, IP65 SEGÚN IEC 60529, GRIS CLARO RAL 7035, MODELO LBC 3482/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Túnel sentido oeste	35	1.00			35.00	
	Túnel sentido este	35	1.00			35.00	70.00
							70.000

ELEMENTO 04.2.1.6.2 EQUIPOS EN CUARTO TÉCNICO BOCA OESTE

997.0268N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²						
	CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alimentación del Rack de megafonía	1	700.00			700.00	700.00
		1	1,300.00			1,300.00	1,300.00
							2,000.000
997.0267N1	ud ARMARIO RACK DE 19" 42 u DE ALTURA						
	ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Armario para equipos de megafonía	1				1.00	1.00
							1.000
997.0269N1	ud ETAPA DE POTENCIA DE 500 W						
	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	BOCA OESTE	4				4.00	4.00
							4.000
997.0266N1	ud ETAPA DE POTENCIA DE 250 W						
	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	BOCA OESTE	2				2.00	2.00
							2.000
997.0265N1	ud MICRO PUPITRE CONTROL SOBREMESA ETHERNET						
	SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Micro pupitre	1				1.00	1.00
							1.000

997.0133N1 ud LATIGUILLO RJ45

LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Latiguillo	1				1.00	1.00
							1.000

997.0715N1 ud UNIDAD SUPERVISIÓN SISTEMA MEGAFONÍA

SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	BOCA OESTE	1				1.00	1.00
							1.000

ELEMENTO 04.2.1.6.3 EQUIPOS EN CUARTO TÉCNICO BOCA ESTE

997.0268N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	Alimentación del Rack de megafonía	1	700.00			700.00	700.00
		1	1,300.00			1,300.00	1,300.00
							2,000.000

997.0267N1 ud ARMARIO RACK DE 19" 42 u DE ALTURA

ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Armario para equipos de megafonía	1				1.00	1.00
							1.000

997.0269N1 ud ETAPA DE POTENCIA DE 500 W

SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	BOCA ESTE	4				4.00	4.00
							4.000

997.0266N1 ud ETAPA DE POTENCIA DE 250 W

SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	BOCA ESTE	2				2.00	2.00
							2.000

997.0265N1 ud MICRO PUPITRE CONTROL SOBREMESA ETHERNET

SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.

	Micro pupitre	1				1.00	1.00
							1.000

997.0133N1 ud LATIGUILLO RJ45

LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Latiguillo	1				1.00	1.00
							1.000

997.0715N1 ud UNIDAD SUPERVISIÓN SISTEMA MEGAFONÍA

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	BOCA ESTE	1				1.00	1.00
							1.000
	ELEMENTO 04.2.1.6.4 EQUIPOS EN CENTRO DE CONTROL						
997.0111N1	ud INTEGRACIÓN DE SISTEMA DE MEGAFONÍA						
	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0133N1	ud LATIGUILLO RJ45						
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Conexión controlador de red a switch ethernet	1				1.00	
	Conexión interfaz cobranet a switch ethernet	1				1.00	2.00
							2.000
997.0264N1	ud ORDENADOR DE SUPERVISIÓN DE MEGAFONÍA						
	SUMINISTRO E INSTALACIÓN DE ORDENADOR DE SUPERVISIÓN PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO						
	Ordenador supervisión megafonía	1				1.00	1.00
							1.000
997.0265N1	ud MICRO PUPITRE CONTROL SOBREMESA ETHERNET						
	SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.						
	Micropupitre	1				1.00	1.00
							1.000
	SUBAPARTADO 04.2.1.7 CCTV						
	ELEMENTO 04.2.1.7.1 CCTV TÚNEL						
997.0002N1	ud CÁMARA COLOR CCD 1/3" DÍA/NOCHE CON INFRARROJOS IP						
	INSTALACIÓN DE TELECÁMARA COLOR TECNOLOGÍA IP FORMATO 1/3" CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO, ALTA RESOLUCIÓN DE 4 MEGPIXEL, 480 LÍNEAS COLOR (520 B/N) DE RESOLUCIÓN HORIZONTAL, 5 MBPS, OBJETIVO C Y CS, AUTOIRIS, CONTROL REMOTO, CON ALIMENTACIÓN ELÉCTRICA 220 VCA. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cámara en galerías	8				8.00	8.00
							8.000
997.0002N2	ud CÁMARA COLOR AVIOTEC IP STARLIGHT 8000 C/ DAI						
	SUMINISTRO, MONTAJE E INSTALACIÓN DE CÁMARA DE COLOR IP FULL HD, CON ANÁLISIS DE DETECCIÓN AUTOMÁTICA DE INCIDENTES INTEGRADO, CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO. RESOLUCIÓN 1920X1080, 30 FPS Y CON FORMATO DE CODIFICACIÓN H 264, DE LA MARCA DE BOSCH O EQUIVALENTE, MODELO AVIOTEC IP STARLIGHT 8000. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cámaras en túnel	24				24.00	24.00
							24.000
997.0233N1	ud CÁMARA MOTORIZADA EXTERIOR						
	INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cámaras en bocas de túnel	2				2.00	2.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2.000
997.0232N1	ud LENTE VARIFOCAL DE IRIS PASIVO 5-50 mm						
	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM. MODELO LTC 3374/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Lentes para cámaras en interior de túnel	12				12.00	12.00
	Lentes para cámaras en interior de túnel	12				12.00	12.00
							24.000
997.0231N1	ud LENTE VARIFOCAL DE IRIS PASIVO 5-50 mm CON CORRECCIÓN DE INFRARROJO						
	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM CON CORRECCIÓN DE INFRARROJOS. MODELO LTC 3674/20 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Lente para cámaras en salidas de emergencia	8				8.00	8.00
							8.000
997.0230N1	ud SOPORTE DE PARED DE 30 cm PARA CARCASAS DE CÁMARAS						
	INSTALACIÓN DE SOPORTE DE PARED 30CM PARA CARCASAS DE CÁMARAS. MODELO LTC 9215/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Soporte para cámaras en interior de túnel	24				24.00	
	Soporte para cámaras en salidas de emergencia	8				8.00	32.00
							32.000
997.0229N1	ud COLUMNA BASE HORMIGONADA DE 15 m						
	COLUMNA DE BASE HORMIGONADA DE 15 M. PARA CÁMARA TV. (NO INCLUYE LA OBRA CIVIL)						
	Columna para cámaras en boca de túnel	2				2.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Columna para cámaras en troncol autovía	2				2.00	4.00
							4.000
997.0228N1	ud CARCASA PARA CÁMARA Y LENTE 262 mm						
	INSTALACIÓN DE CARCASA PARA CÁMARA + LENTE 262MM. 230VCA. CON CALEFACTOR. IP55. MODELO HSG 9853/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Carcasa para cámaras en túnel	24				24.00	
	Carcasa para cámaras en salidas de emergencia	8				8.00	32.00
							32.000
997.0227N1	ud ARMARIO PIE DE CÁMARA 800 x 600 x 200						
	ARMARIO PIÉ DE CÁMARA 800X600X200. INCLUSO PROTECCIONES ELÉCTRICAS Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Armario para cámaras en bocas	2				2.00	2.00
							2.000
997.0226N1	ud CABLE DE MANGUERA DE 17 m						
	CABLE DE MANGUERA DE 17 M. PARA SEÑALES DE CÁMARA TV EN POSTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cable para cámaras en bocas de túnel	2				2.00	2.00
							2.000
997.0225N1	m CONDUCTOR FLEXIBLE AFUMEX 3 x 2,5						
	CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Alimentación de cámaras en túnel	1	875.00			875.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alimentación de cámaras en salidas de emergencia	8	5.00			40.00	915.00
							915.000

997.0224N1 ud EMPALME DE FIBRA ÓPTICA

EMPALME DE FIBRA ÓPTICA, , INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Conexión cámara CTS a repartidor FO boca sur	2				2.00	
Conexión cámara CTN a repartidor FO boca norte	2				2.00	
						4.00
						4.000

997.0223N1 m CABLE UTP CAT VI CCTV INTERIOR

SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.

Cable UTP cat6 túnel sentido este	1,390	1.00			1,390.00	
Cable UTP cat6 túnel sentido oeste	1,410	1.00			1,410.00	2,800.00
						2,800.000

997.0234N1 ud LATIGUILLO FO SM PARA CCTV EXTERIOR

SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES SC/PC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.

Latiguillos FO para CCTV en túnel	2				2.00	
Latiguillos FO para CCTV en tronco	2				2.00	4.00
						4.000

997.0222N1 ud CONVERSOR DE MEDIO IP FO SM PARA CCTV EXTERIOR

SUMINISITRO E INSTALACIÓN DE CONVERSOR DE MEDIO IP A FIBRA ÓPTICA SM, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE PROBADO E INSTALADO.

Conversor de medio IP-Fo para CCTV exterior	4				4.00	4.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.000

997.0221N1 ud CÁMARA DOMO EXTERIOR

SUMINISTRO E INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Cámara Domo Exterior del túnel	1				1.00	
Cámara Domo Exterior del túnel	1				1.00	2.00
						2.000

997.0220N1 ud EMPALME TERMINAL DE 4FO SM EN CUARTOR TÉCNICOS Y CCTV

REALIZACIÓN DE EMPALMES EN TERMINAL DE 4 FIBRAS ÓPTICAS SM EN CUARTOS TÉCNICOS Y CCTV, INCLUSO MATERIAL PARA EMPALME DE FIBRA ÓPTICA Y PEQUEÑO MATERIAL, TOTALMENTE PROBADO Y FUNCIONANDO.

Empalme de fibra ópticatronco CCTV	4				4.00	4.00
						4.000

ELEMENTO 04.2.1.7.2 CENTRO DE CONTROL

997.0140N1 ud ARMARIO RACK DE 19"

ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Armario CCTV Centro de Control	1				1.00	1.00
						1.000

997.0219N1 m CABLE COAXIAL RG-59

CABLE COAXIAL RG-59, TOTALMENTE TENDIDO, CONECTORIZADO Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cable coaxial CCTV centro de control	150	1.00			150.00	150.00
							150.000

997.0218N1 ud MONITOR DE COLOR DE ALTA RESOLUCIÓN

MONITOR DE COLOR DE ALTA RESOLUCIÓN 19", 700 LÍNEAS, PARA MONTAJE EN PANEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Monitores en centro de control	6				6.00	6.00
							6.000

997.0217N1 ud CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO

CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO CERRADO DE TELEVISIÓN, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.

		1				1.00	1.00
							1.000

997.0216N1 ud DECODEC IP/PAL PARA MONITORES 4 SALIDAS

SUMINISTRO E INSTALACIÓN DE DECODEC IP/PAL, CON 4-CANALES MPEG-4 DE VIDEO, CALIDAD DVD-VIDEO (D1, 25/30 FPS), DISEÑO COMPACTO PARA ALTA DENSIDAD DE VIDEO, DUPLEX SERIAL DATA, MJPEG WEB VIEWING, ADVANCED VIDEO OVERLAY (OSD), INTERFACE WEB PROTEGIDO POR CONTRASEÑA, SOPORTA SNMPV2 Y NTP, Y RANGO EXTENDIDO DE TEMPERATURA. TOTALMENTE PROBADO Y FUNCIONANDO.

	Codec IP/PAL para monitores con 4 salidas	3				3.00	3.00
							3.000

997.0215N1 ud GRABADOR DIGITAL IP DE VIDEO

SUMINISTRO E INSTALACIÓN DE GRABADOR DIGITAL IP VIDEO I-SCSI (6TB) EN FORMATO RACK 19", CON CONFIGURACIÓN RAID 5 Y 4 DISCOS 2TB, CON CAPACIDAD DE HASTA 150 CÁMARAS. INCLUYE SOFTWARE COMERCIAL DE GESTIÓN DE GRABACIÓN EN ESTACIÓN DE TRABAJO/SERVIDOR. PERMITE BÚSQUEDA DE MOVIMIENTO EN LAS IMÁGENES GRABADAS (UMBRAL DE MOVIMIENTO CONFIGURABLE), ROLLBACK Y BÚSQUEDA DE GRABACIONES POR CÁMARA, TIPO, FECHA Y HORA. PROBADO Y EN PERFECTO FUNCIONAMIENTO.

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000

997.0214N1 ud SERVIDOR DE PROCESO VIDEO IP

SUMINISTRO E INSTALACIÓN DE SERVIDOR DE PROCESO HP Z200 WORKSTATION O SIMILAR CON EFFICIENT CHASSIS, MS WINDOWS 7 PROFESSIONAL 32-BIT OS, INTEL CORE I3-540 3.06 4MB/1333 DC CPU,4GB (2X2GB) DDR3-1333 ECC RAM, NVIDIA NVS 300 512MB GRAPHICS, 250GB SATA 7200 1ST HDD, USB STANDARD KEYBOARD, USB OPTICAL SCROLL MOUSE, 16X DVD+-RW SUPERMULTI SATA 1ST DRIVE, PANTALLA TFT 15", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Servidor proceso centro control CCTV	1				1.00	1.00
							1.000

997.0213N1 ud TECLADO DE CONTROL PARA VIDEO IP

SUMINISTRO E INSTALACIÓN DE TECLADO DE CONTROL PARA VIDEO IP, CONECTADO AL PUESTO DE CONTROL, JOYSTICK CON EFECTO DE HALL DE TRES EJES X/Y: PARA MOVIMIENTO VERTICAL Y HORIZONTAL, Z: BOTÓN PARA EL ZOOM, 6 TECLAS DE ACCESO DIRECTO A APLICACIONES DEFINIDAS. DELIMITADOR CUADRADO, MOVIMIENTO HORIZONTAL/VERTICAL (XY): +/- 15°, ZOOM (Z): +/- 25°.

	Teclado CCTV centro control	1				1.00	1.00
							1.000

997.0133N1 ud LATIGUILLO RJ45

LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	Latiguillo UTP cat6	7				7.00	7.00
							7.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.2.1.8 PUESTOS SOS						
	ELEMENTO 04.2.1.8.1 TÚNEL						
997.0212N1	ud CIMENTACIÓN DE POSTE SOS						
	CIMENTACIÓN DE POSTE SOS						
	Boca lado sur	2				2.00	
	Boca lado norte	2				2.00	4.00
							4.000
997.0133N1	ud LATIGUILLO RJ45						
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		12				12.00	12.00
							12.000
997.0225N1	m CONDUCTOR FLEXIBLE AFUMEX 3 x 2,5						
	CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Alimentación poste SOS túnel	12	5.00			60.00	
	Alimentación plafón luminoso poste SOS	16	5.00			80.00	
	Alimentación poste SOS Salida de Emergencia	4	5.00			20.00	160.00
							160.000
997.0211N1	ud POSTE DE AUXILIO MAESTRO IP EN TÚNELES						
	SUMINISTRO E INSTALACIÓN DE POSTE SOS MAESTRO DE INTERIOR. ELECTRÓNICA POSTE SOS/TCP/IP CON VIDEO FIBERGATE O SIMILAR. CONTROLADOR ELECTRÓNICO DE DOS POSTES SOS MAESTRO Y ESCLAVO. INCLUYE DOS PUERTOS 100 FX CON FIBRA MONOMODO PARA TOPOLOGÍA DE ANILLO, ELECTRÓNICA DE CONTROL DE AUDIO, ENTRADAS/SALIDAS DE CONTACTO Y UN ENCODER DE VIDEO MPEG4. 4 ENTRADAS DE VIDEO RG58. INSTALADO EN ARMARIO DE SOS DE ACERO INOXIDABLE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Postes maestro en túneles y galerías	12				12.00	12.00
							12.000
997.0210N1	ud POSTE DE AUXILIO ESCLAVO EN TÚNEL						
	SUMINISTRO E INSTALACIÓN DE POSTE DE AUXILIO ESCLAVO (S.O.S.) INTERIOR EN ARMARIO METÁLICO TROPICALIZADO, CON COMPARTIMENTO PARA 2 EXTINTORES DE 6 KG., PULSADOR DE LLAMADA, MICRÓFONO, ALTAVOZ, CAJA DE CONEXIONES, ELECTRÓNICA, FIJACIÓN A ARMARIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Postes esclavo en túneles	4				4.00	4.00
							4.000
997.0209N1	ud POSTE DE AUXILIO ESCLAVO EXTERIOR						
	SUMINISTRO Y MONTAJE DE PUESTOS SOS ESCLAVO DE EXTERIOR, INCLUYENDO MICRÓFONO Y ALTAVOZ DOBLE PARA COMUNICACIÓN "MANOS LIBRES" CON LA CASETA DE CONTROL, PULSADOR DE LLAMADA, CARCASA DE PROTECCIÓN EN FIBRA DE VIDRIO, CON CONTACTO DE APERTURA DE PUERTA, COMPLETAMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Postes esclavo en exterior de túneles	4				4.00	4.00
							4.000
997.0208N1	ud PLAFÓN LUMINOSO SOS/EXTINTOR						
	PLAFÓN LUMINOSO SOS/EXTINTOR DE MEDIDAS 600X500, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Indicación Poste SOS en túnel	12				12.00	12.00
	Indicación Poste SOS en galerías	4				4.00	4.00
							16.000
997.0206N1	ud SWITCH PARA POSTE SOS						
	SWITCH PARA POSTE SOS, TIPO FIBERGATE O SIMILAR, EN CABINA DE 19" DE 3U. INCLUYE FUENTE DE ALIMENTACIÓN DE 220VAC, DOS PUERTOS DE FO MONOMODO 100BASEFX (1300NM) PARA DISTANCIAS HASTA 40KM APROX. CONECTORES TIPO SC. SEIS PUERTOS FJ45 10/100 BATE T/TX, DOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LÍNEAS SERIE ASÍNCRONAS CON CONECTOR DB9, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		12				12.00	12.00
							12.000
997.0205N1	ud CAJA DE FO PARA CONEXIÓN FO EN SOS						
	SUMINISTRO E INSTALACIÓN DE CAJA DE FIBRA ÓPTICA PARA CONEXIÓN, INCLUSO PEQUEÑO MATERIAL Y FUNCIONANDO PERFECTAMENTE.						
		12				12.00	12.00
							12.000
997.0204N1	m CABLE DE 6 x 2 x 0,9 mm LSZH						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 6X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cable de 6x2x0,9 túnel sentido este	440				440.00	
	Cable de 6x2x0,9 túnel sentido oeste	440				440.00	880.00
							880.000
997.0207N1	ud LATIGUILLO FIBRA ÓPTICA MONOMODO CONECTA EL SWITCH CON CAJA DE FO						
	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, QUE CONECTA EL SWITCH CON LA CAJA DE FIBRA ÓPTICA, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.						
		80				80.00	80.00
							80.000
997.0018N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 micras, 8 FIBRAS						
	INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		12				12.00	12.00
							12.000
997.0203N1	m CABLE 16 FO SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS LSZH						
	SUMINISTRO E INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cable FO SM puestos SOS túnel sentido este	1,045		1.00		1,045.00	
	Cable FO SM puestos SOS túnel sentido oeste	1,045		1.00		1,045.00	2,090.00
							2,090.000
997.0202N1	m CABLE 8 FO SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 8 FIBRAS ÓPTICAS SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS, TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Cable 8 FO túnel sentido oeste	100				100.00	
	Cable 8 FO túnel sentido este	100				100.00	200.00
							200.000
	ELEMENTO 04.2.1.8.2 CENTRO DE CONTROL						
997.0201N1	ud ORDENADOR SERVIDOR PROCESADOR PENTIUM IV						
	ORDENADOR SERVIDOR PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 15", INCLUIDO SISTEMA OPERATIVO WINDOWS XP O SUPERIOR,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Servidor SOS centro de control	1				1.00	1.00
							1.000
997.0200N1	ud SOFTWARE DE APLIACIÓN DE SISTEMA SOS						
	ESTACIÓN REMOTA DE TÚNEL ERYT, 6 PUERTOS SERIE PARA PERIFÉRICOS RS232/RS422, 1 LÍNEA RS232 CON CC, ARMARIO IP55, FUENTE DE ALIMENTACIÓN. EQUIPADA CON 96 ENTRADAS DIGITALES, 64 SALIDAS DIGITALES Y 16 ENTRADAS ANALÓGICAS.						
		1				1.00	1.00
							1.000
997.0199N1	ud CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS						
	CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.						
		1				1.00	1.00
							1.000
997.0133N1	ud LATIGUILLO RJ45						
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.2.1.9 CONTROL DE TRÁFICO Y SEÑALIZACIÓN LUMINOSA						
997.0079N1	ud PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS DE 21 m DE LUZ						
	CONSTRUCCIÓN DE PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS, DE 21 M DE LUZ, CON ESCALERA Y BARANDILLA, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.						
	Calzada derecha, boca oeste	2				2.00	
	Calzada izquierda, boca oeste	2				2.00	4.00
							4.000
997.0080N1	ud PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 m DE LUZ						
	CONSTRUCCIÓN DE PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 M DE LUZ, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.						
	Calzada derecha, boca oeste	2				2.00	
	Calzada izquierda, boca este	2				2.00	4.00
							4.000
997.0198N1	ud SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR						
	SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada derecha, boca oeste	3				3.00	
	Calzada izquierda, boca este	3				3.00	6.00
							6.000
997.0196N1	ud SEMÁFORO MODULAR DE TECNOLOGÍA LED 2/300 Y PANTALLA DE CONTRASTE						
	SEMÁFORO MODULAR DE TECNOLOGÍA LEDS DE 2 FOCOS DE 300 MM (2/300), INCLUYENDO PANTALLA DE CONTRASTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Calzada derecha, barreras acceso	2				2.00	
	Calzada izquierda, barreras acceso	2				2.00	4.00
							4.000
997.0195N1	ud PANEL DE MENSAJE VARIABLE ALFANUMÉRICO DE 3 x 12 Y 2 GRÁFICOS DE 1400 x 1400						
	PANEL DE MENSAJE VARIABLE COMPUESTO POR PANEL ALFANUMÉRICO DE 3 FILAS POR 12 CARACTERES DE 300 MM Y DOS PANELES GRÁFICOS DE 1400X1400, IP-55, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada derecha, pórtico exterior, sur	1				1.00	
	Calzada izquierda, pórtico exterior, norte	1				1.00	2.00
							2.000
997.0194N1	ud PANEL STOP A X00 Y 2 PILOTOS AMBAR						
	PANEL STOP A X00 M + 2 PILOTOS ÁMBAR-ÁMBAR, ACTIVACIÓN POR CONTACTOS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada Oeste	3				3.00	
	Calzada Este	3				3.00	
							6.00
							6.000
997.0193N1	ud SEÑAL ASPA-FLECHA DE EXTERIOR DE 1000 x 1000 x 200						
	SEÑAL ASPA-FLECHA DE EXTERIOR, DIMENSIONES 1000X1000X200 MM, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada derecha, boca oeste	9				9.00	
	Calzada izquierda, boca este	9				9.00	18.00
							18.000
997.0011N1	ud ARMARIO METÁLICO PARA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC						
	ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.						
	Conversor IP - FO SM para señalización	12				12.00	12.00
							12.000
997.0192N1	ud CONVERSOR DE RS-485 A IP						
	SUMINISTRO E INSTALACIÓN DE CONVERSOR DE RS-485 A IP, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE PROBADO Y FUNCIONANDO.						
	Conversor RS-485 a IP	26				26.00	26.00
							26.000
997.0077N1	m CABLE DE 2 x 2 x 0,9 mm, EAPS-R						
	INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.						
	Calzada izquierda	43				43.00	
	Calzada derecha	43				43.00	86.00
							86.000

SUBAPARTADO 04.2.1.10 CONTROL DE ACCESOS

997.0190N1	ud DETECTOR A MICROPROCESADOR DE VEHÍCULOS						
	DETECTOR A MICROPROCESADOR DE VEHÍCULOS PARA LAZO ELECTROMAGNÉTICO, DE 2 CANALES, AUTOADAPTABLE Y AUTOAJUSTABLE. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada derecha, boca sur, barreras acceso	3				3.00	
	Calzada izquierda, boca norte, barreras acceso	3				3.00	
	Calzada derecha, boca sur, control gálibo	3				3.00	
	Calzada izquierda, boca norte, control gálibo	3				3.00	12.00
							12.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
997.0189N1	ud BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO						
	BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO, COMPUESTA POR PÓRTICO DE ACERO GALVANIZADO, PANELES DE BALIZAMIENTO REFLECTANTE TB-5 PINTADAS EN FRANJAS ROJAS Y BLANCAS, COLGADAS DEL PÓRTICO MEDIANTE CADENAS DE SUJECIÓN, INCLUYE CIMENTACIÓN, CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca este	5				5.00	5.00
							5.000
997.0188N1	ud SEÑAL METÁLICA DE EXCESO DE GÁLIBO						
	DE SEÑAL DE EXCESO DE GÁLIBO DE 2.500 X 1925 MM TOTALMENTE INSTALADA. SEGÚN PPTP						
		2				2.00	2.00
							2.000
997.0187N1	ud LATIGUILLO FIBRA ÓPTICA MONOMODO 2 m						
	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES ST, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.						
		8				8.00	8.00
							8.000
997.0185N1	ud ESPIRA ELECTROMAGNÉTICA ESTANDAR DE 2 x 2 m						
	ESPIRA ELECTROMAGNÉTICA SOTERRADA EN EL PAVIMENTO DE MEDIDA ESTANDAR 2X2 M, COMPUESTA POR REGATA, CABLE ESPECIAL DE 2,5 MM, RESINA SINTÉTICA DE RECUBRIMIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		12				12.00	12.00
							12.000
997.0186N1	ud ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD 8 DETECTORES						
	ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD PARA 8						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DETECTORES DOBLES. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000
997.0184N1	ud BARRERA AUTOMÁTICA DE BRAZO DE 8 m						
	BARRERA AUTOMÁTICA DE BRAZO DE ALUMINIO DE 8 M. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	BOCA OESTE	2				2.00	2.00
	BOCA ESTE	2				2.00	2.00
							4.000
997.01187N1	ud DETECCIÓN AUTOMÁTICA DE VEHÍCULOS SOBRECALENTADOS						
	SUMINISTRO, MONTAJE E INSTALACIÓN DE SISTEMA DE DETECCIÓN AUTOMÁTICA DE PIEZAS SOBRECALENTADAS DE VEHÍCULOS DE LA MARCA SICK O EQUIVALENTE. INCORPORA CÁMARA TERMOGRÁFICA (INCLUYE CARCASA Y CALEFACCIÓN INTERIOR) Y SENSOR 2D-LIDAR PARA DETECTAR VEHÍCULOS SOBRECALENTADOS, INSTALADO EN ARCO DE SEÑALIZACIÓN ANTES DE LA ENTRADA EN EL TÚNEL PARA PODER DETENER EL VEHÍCULO SOBRECALENTADO Y NO PERMITIRLE EL ACCESO HASTA SU REFRIGERACIÓN. EL SISTEMA MIDE LA TEMPERATURA Y LAS DIMENSIONES DE CADA VEHÍCULO, DETERMINA LA CLASE DE VEHÍCUOLO Y GENERA UNA IMAGEN 3D, PERMITE IDENTIFICAR LA PARTE SOBRECALENTADA DEL VEHÍCULO: RUEDAS, MOTOR, CARGA, ESCAPES, ETC. INCLUYE ACCESORIOS DE MONTAJE, CARCASAS, SUJECCIONES, CONEXIONES, CAJAS DE REGISTRO, CABLEADO, CANALIZACIÓN, ETC. TOTALMENTE INSTALADO SEGÚN NORMATIVA VIGENTE Y A JUICIO DE LA DF.						
	BOCA OESTE	3			3.00		
	BOCA ESTE	3			3.00	6.00	
							6.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.2.1.11 DETECCIÓN DE INTRUSIÓN						
997.0086N1	ud CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA						
	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	GALERÍAS	4	4.00			16.00	
	CUARTOS BAJA TENSIÓN	2	6.00			12.00	
	EDIFICIO PREFABRICADO MT	2	4.00			8.00	36.00
							36.000
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm						
	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.						
	Tubo metálico	180				180.000	180.000
							180.000
	SUBAPARTADO 04.2.1.12 SISTEMA DE CONTROL						
997.0053N1	ud SAI TRIFÁSICO 12 kVA						
	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0087N1	ud DOBLE ESTACIÓN REMOTA UNIVERSAL ERU						
	DOBLE ESTACIÓN REMOTA UNIVERSAL ERU REDUNDANTE, DOBLE ENLACE ETHERNET, A UBICAR EN LOCALES TÉCNICOS SOBRE RACK DE 19", INCLUSO TARJETAS DE COMUNI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CACIONES CON BUS DE CAMPO PARA CONTROL DISTRIBUIDO, CANALES SERIE Y RED ETHERNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	ERU CT-1	1				1.00	
	ERU CT-2	1				1.00	2.00
							2.000
997.0088N1	ud PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC						
	PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 18", INCLUIDO SISTEMA OPERATIVO WINDOWS 2000 X-PRO O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Sala de control	2				2.00	2.00
							2.000
997.0089N1	ud SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DE TÚNEL						
	SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DEL TÚNEL COMPUESTO POR: - SOFTWARE DE BASE DE DATOS ORACLE O SIMILAR - SOFTWARE DE INTEGRACIÓN DE SISTEMAS (MIDDLEWARE) TIPO CORBA, J2E O SIMILAR - SOFTWARE GESTOR DE REDUNDANCIA DE SERVIDORES - SOFTWARE DE GESTIÓN DE LA RED DE COMUNICACIONES TOTALMENTE INSTALADOS INCLUYENDO CONFIGURACIÓN, PUESTA EN MARCHA, DOCUMENTACIÓN Y FORMACIÓN DE TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL						
		1				1.00	1.00
							1.000
997.0090N1	ud IMPRESORA LASER B/N						
	IMPRESORA LÁSER B/N, INTERFACE PARALELO, RESOLUCIÓN 4200X1200 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000
997.0091N1	ud IMPRESORA INYECCIÓN DE TINTA COLOR						
	IMPRESORA INYECCIÓN DE TINTA COLOR, INTERFACE PARALELO, RESOLUCIÓN 600X600 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		1				1.00	1.00
							1.000
997.0092N1	ud MOBILIARIO DE OPERADORES						
	MOBILIARIO DE OPERADORES, COMPUESTOS POR ZONA DE TRABAJO Y ENCIMERA SOBRE ELEVADA PARA MONITORES, EN TABLERO PRENSADO DE 30 MM DE ESPESOR REVESTIDO DE LAMINADO ALTA PRESIÓN ANTIRREFLEXIVO Y ANTIRRAYADO, ESTRUCTURA INTERIOR A BASE DE CHASIS MODULAR DE ALUMINIO EXTRUSIONADO, ALTURA REGULABLE MEDIANTE POSICIONES FIJAS, SOPORTE MONITORES METÁLICO CON REJILLAS DE VENTILACIÓN, PUERTAS TRASERAS DOBLES, KIT DE ELECTRIFICACIÓN CON CANALETAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Sala de control	1				1.00	1.00
							1.000
997.0093N1	m CABLE DE 1 x 2 0,9 mm ARMADO Y APANTALLADO						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada izquierda	4,567				4,567.00	
	Calzada derecha	4,432				4,432.00	8,999.00
							8,999.000
997.0094N1	m CABLE DE 4 x 2 x 0,9 mm ARMADO Y APANTALLADO						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 4X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLU-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada izquierda	1,876				1,876.00	
	Calzada derecha	1,876				1,876.00	3,752.00
							3,752.000
997.0095N1	m CABLE MULTIFILAR COMUNICACIONES ARMARIOS ELECTRICOS						
	SUMINISTRO E INSTALACIÓN DE CABLE DE 20X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Calzada izqueirda	200				200.00	
	Calzada derecha	200				200.00	400.00
							400.000
997.0096N1	m BANDEJA METÁLICA CON TAPA DE 200*60 PARA SOS						
	SUMINISTRO E INSTALACIÓN DE BANDEJA METÁLICA CON TAPA DE 200X60, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN Y TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.						
		135				135.00	135.00
							135.000
997.0097N1	ud PLC DE CONTROL 32 ED 8SD 4EA						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 16 ENTRADAS DIGITALES, 1 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						
	CUADROS TÚNEL	14				14.00	14.00
							14.000
997.0098N1	ud PLC DE CONTROL 64ED 24SD 2EA						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMA-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHER-NET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 3 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 2 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						
	CUADROS ELÉCTRICOS	12				12.00	12.00
							12.000
997.0099N1	ud PLC DE CONTROL 64ED 24SD 8EA						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 4 TARJETAS DE 8 SALIDAS DIGITALES, 2 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	ARMARIO ERU	2				2.00	2.00
							2.000
997.0100N1	ud PLC DE CONTROL 96ED 96SD 1MOD BUS						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 6 TARJETAS DE 16 ENTRADAS DIGITALES, 6 TARJETAS DE 16 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	CUADROS ELÉCTRICOS CT	4				4.00	4.00
							4.000
997.0029N1	ud PLC DE CONTROL 32 ED 16 SD (2 TARJETAS DE 16 ED)						
	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	POSTES SOS	20				20.000	20.000
							20.000
997.0302N1	m CABLEADO FTP CATEGORÍA 6 PVC I/CANALIZACIÓN						
	CABLEADO HORIZONTAL DE PAR TRENZADO, FORMADA POR CABLE FTP DE 4 PARES, CATEGORÍA 6 PVC, EN MONTAJE EN CANAL O BANDEJA (NO INCLUIDA), INSTALADO, MONTAJE Y CONEXIONADO. INCLUYE PARTE PROPORCIONAL DE CANALIZACIÓN BAJO TUBO CORRUGADO LH DE DIÁMETRO 32 PARA TRAMOS DEONDE NO EXISTA BANDEJA. CONFORME A ISO/IEC 11801:2017, IEC 61156-5:2020, UNE-EN 50173-1:2018, UNE-EN 50288-6-1:2013. MATERIALES CON MARCADO CE Y DDP (DECLARACIÓN DE PRESTACIONES) SEGÚN REGLAMENTO (UE) 305/2011.						
	CONEXIÓN PLCs	42	25.00			1,050.00	1,050.00
							1,050.000
997.0101N1	ud SERVIDOR DE PROCESO CPU INTEL PENTIUM 4						
	SERVIDOR DE PROCESO CPU INTEL PENTIUM 4 - 3 GHZ O SUPERIOR, RAM 1 GB, TARJETA GRÁFICA XVGA 16 MB - RAM, CONTROLADORA UW SCSI RAID, 3 DISCOS SCSI 100 GB, DISQUETERA 1.44/120 MB, 2 TARJETAS LAN 100/1000 MBPS, MONITOR TFT 15", TECLADO, 1 RATÓN, 1 PORT CENTRONICS + 2 PORTS RS-232, UNIDAD MAGNETO-ÓPTICA DE 1.3 GB INTERNA SCS, REGRABADORA CD-WRITER 9210I (32X8X4) SCSI, WINDOWS NT WORKSTATION 4.0 O SUPERIOR PREINSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Sala de control	2				2.00	2.00
							2.000
997.0102N1	ud LICENCIA DE APLICACIÓN Y GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DE TÚNEL						
	LICENCIA DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0103N1	ud PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN Y EXPLOTACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO TANTO EN CAMPO COMO EN SALA DE CONTROL.						
		1				1.00	1.00
							1.000
997.0104N1	ud PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN Y EXPLOTACIÓN						
	PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO, INCLUYENDO TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL ASÍ COMO INTEGRACIÓN DE LOS DIFERENTES SUBSISTEMAS QUE COMPONEN LAS INSTALACIONES DE GESTIÓN DEL TÚNEL.						
		1				1.00	1.00
							1.000
997.0105N1	ud INGENIERIA DE INTEGRACIÓN DE ERUs Y PLCs DE CONTROL						
	INGENIERÍA DE INTEGRACIÓN DE ERUS Y PLCS DE CONTROL EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0106N1	ud INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE INCENDIOS						
	INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0107N1	ud INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCENDIOS						
	INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0108N1	ud INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN Y PANELES ALFANUMÉRICOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0109N1	ud INTEGRACIÓN DE SISTEMA DE POSTES SOS						
	INTEGRACIÓN DE SISTEMA DE POSTES SOS, TOTALMENTE INSTALADO						
		1				1.00	1.00
							1.000
997.0110N1	ud INTEGRACIÓN DE SISTEMA DE VIDEO EN SISTEMA DE GESTIÓN						
	INTEGRACIÓN DE SISTEMA DE VÍDEO EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO, INCLUYENDO CONFIGURACIÓN.						
		1				1.00	1.00
							1.000
997.0111N1	ud INTEGRACIÓN DE SISTEMA DE MEGAFONÍA						
	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0112N1	ud INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA						
	INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0113N1	ud INTEGRACIÓN DE SISTEMA DAI						
	INTEGRACIÓN DE SISTEMA DAI EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
997.0114N1	ud INTEGRACIÓN DE ANALIZADORES DE REDES						
	INTEGRACIÓN DE ANALIZADORES DE REDES EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0115N1	ud INTEGRACIÓN ETDs						
	INTEGRACIÓN ETDS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0116N1	ud CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA						
	CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA, TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
997.0223N1	m CABLE UTP CAT VI CCTV INTERIOR						
	SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.						
	Calzada Izquierda	1	825.00			825.00	
	Calzada Derecha	1	825.00			825.00	1,650.00
							1,650.000
997.0140N1	ud ARMARIO RACK DE 19"						
	ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		5				5.00	5.00
							5.000
	SUBAPARTADO 04.2.1.13 RADIOCOMUNICACIONES						
	ELEMENTO 04.2.1.13.1 ESTACIÓN DE CAPTACIÓN						
997.0117N1	ud ANTENA DE CAPTACIÓN FM						
	INSTALACIÓN EN MÁSTIL DE ANTENA DE CAPTACIÓN FM. INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000
997.0118N1	m CABLE COAXIAL 1/2"						
	CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Conexión de antenas con amplificadores	8	100.00			800.00	
	Conexión de equipos de rack	36	1.00			36.00	836.00
							836.000
997.0119N1	ud AMPLIFICADOR SELECTIVO DE CANAL FM						
	INSTALACIÓN DE AMPLIFICADOR SELECTIVO DE CANAL FM PARA 4 CANALES. CON INSERCIÓN DE MENSAJES PROCEDENTES DEL SISTEMA DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000
997.0120N1	ud ARMARIO RACK DE 19" 36 U DE ALTURA						
	ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Boca oeste	1				1.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Boca este	1				1.00	2.00
							2.000

ELEMENTO 04.2.1.13.2 ELEMENTOS EN EL TÚNEL

997.0120N1 ud ARMARIO RACK DE 19" 36 U DE ALTURA

ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Cuarto técnico boca este	1			1.00	
Cuarto técnico boca oeste	1			1.00	2.00
					2.000

997.0121N1 ud CONFIGURACIÓN Y PUESTA EN MARCHA DE SISTEMA DE RADIO COMÚN

CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA DE RADIOCOMUNICACIONES, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	1			1.00	1.00
					1.000

997.0122N1 m CABLE COAXIAL RADIANTE 1 - 5/8"

CABLE COAXIAL RADIANTE 1 - 5/8", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Calzada derecha	1	859.00		859.00	
Calzada izquierda	1	852.00		852.00	
Galerías	4	165.00		660.00	2,371.00
					2,371.000

997.0123N1 ud GRAPA PARA FIJACIÓN DE CABLE RADIANTE

GRAPA PARA FIJACIÓN DE CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1,245				1,245.00	1,245.00
							1,245.000

997.0124N1 ud CARGA FINAL PARA CABLE RADIANTE

CARGA FINAL PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Calzada derecha	1			1.00	
Calzada izquierda	1			1.00	
Galerías	4			4.00	6.00
					6.000

997.0125N1 ud CONECTOR PARA CABLE RADIANTE

CONECTOR PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	8			8.00	8.00
					8.000

997.0126N1 ud DUPLEXOR

INSTALACIÓN DE DUPLEXOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	2			2.00	2.00
					2.000

997.0127N1 ud SPLITTER DE 2 VIAS

SPLITTER DE 2 VÍAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

SE2	2			2.00	2.00
					2.000

997.0118N1 m CABLE COAXIAL 1/2"

CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Conexión de equipos de rack SE1	30	1.00			30.00	
	Conexión de equipos de rack SE4	30	1.00			30.00	
	Conexión de equipos de rack SE7	30	1.00			30.00	90.00
							90.000

SUBAPARTADO 04.2.1.14 ESTACIÓN METEOROLÓGICA

997.0128N1 ud ESTACIÓN METEOROLÓGICA

ESTACIÓN METEOROLÓGICA MARCA VAISALA MODELO ROSA/DM31 O SIMILAR PARA LA ADQUISICIÓN Y TRATAMIENTO DE DATOS, COMPUESTA POR:

* CPU
* INTERFACE PARA SENSORES DRI50 O SIMILAR
* CHASIS DMF31 O SIMILAR
* ARMARIO PARA FIJACIÓN A MÁSTIL Y ACCCESORIOS
* SALIDA RS-232
* PROTOCOLO DGT
* SENSORES DE TEMPERATURA Y HUMEDAD RELATIVA
* CARCASA ANTIRRADIACIÓN PARA SENSOR DE TEMPERATURA Y HUMEDAD RELATIVA
* SENSORES DE ESTADO DE SUPERFICIE DE CALZADA
* CONJUNTOS DE MEDIDA DE VIENTO COMPUESTO POR:
  - SENSOR DE VELOCIDAD DE VIENTO
  - SENSOR DE DIRECCIÓN DE VIENTO
  - TRANSMISOR ANALÓGICO, INCLUSO CRUCETA
* SENSORES DE VISIBILIDAD Y TIEMPO PRESENTE, RANGO DE MEDIDA DE 10/2.000 M.
* SENSORES DE PRESIÓN ATMOSFÉRICA, RANGO DE MEDIDA DE 800/1060 HPA
* SENSORES DE RADIACIÓN SOLAR INCLUYENDO INTERFACE PARA ROSA/DM31 O SIMILAR
* BRAZOS SOPORTE CON ACCESORIOS TOTALMENTE MONTADA, INSTALADA Y PROBADA

	Boca sur	1				1.00	1.00
							1.000

997.0129N1 ud COLUMNA METÁLICA PRECONEXIONADA PARA METEO 6 METROS

SUMINISTRO E INSTALACIÓN DECOLUMNA METÁLICA PRECONEXIONADA DE 6 METROS PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000

997.0130N1 ud ARMARIO CONEXIONADO PARA METEO

SUMINISTRO E INSTALACIÓN DE ARMARIO CONEXIONADO PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

		1				1.00	1.00
							1.000

997.0182N1 ud CONVERTIDOR DE RS-422A A IP

SUMINISTRO E INSTALACIÓN DE CONVERTIDOR DE RS-422 A IP, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

		1				1.00	1.00
							1.000

997.0181N1 ud CONVERTIDOR DE RS-232 A RS-485

CONVERTIDOR RS-232 A RS-485, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 04.2.1.15 FIBRA ÓPTICA Y RED DE COMUNICACIONES						
997.0131N1	ud SWITCH GIGABIT ETHERNET 24 PUERTOS						
	SWITCH GIGABIT ETHERNET, LAYER 2/3 SWITCHING, 24 PUERTOS 10/100 BASET, 2 PUERTOS 1000 MBPS, 2 PUERTOS LH-LC MINI GBIC (GIGABIT INTERFACE CONVERTER), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Sala de control	1				1.00	1.00
		1				1.00	1.00
	Según mediciones auxiliares	1				1.00	1.00
							3.000
997.0132N1	ud PANEL DE PARCHEO 24 PUERTOS						
	SUMINISTRO PANEL DE PARCHEO DE 24 PUERTOS RJ-45, CLASE 6, CON ETIQUETAS FRONTALES Y TRASERAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Rack comunicaciones sala de control	1				1.00	1.00
	Modificado 2	1				1.00	1.00
							2.000
997.0133N1	ud LATIGUILLO RJ45						
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Rack comunicaciones sala de control	24				24.00	24.00
	Modificado 2	24				24.00	24.00
	Según mediciones auxiliares	-1				-1.00	-1.00
							47.000
997.0134N1	ud PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO						
	PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO 2P+TT, INTERRUPTOR BIPOLAR 16 A 250 V CON PILOTO, PARA MONTAJE EN RACK 19", 2 U ALTURA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Rack comunicaciones sala control	1				1.00	
	Rack comunicaciones edificio boca sur	1				1.00	
	Rack comunicaciones edificio boca norte	1				1.00	3.00
							3.000
997.0135N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS 8 FIBRAS						
	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Edificio boca oeste a edificio boca este - Calzada derecha	1,052				1,052.00	
	Edificio boca oeste a edificio boca est - Calzada izquierda	1,059				1,059.00	2,111.00
							2,111.000
997.0136N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS 16 FIBRAS						
	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MULTITUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Edificio boca est a centro de control	450				450.00	450.00
							450.000
997.0137N1	ud PIG-TAIL FIBRA ÓPTICA MONOMODO 2 M ST						
	PIG-TAIL FIBRA ÓPTICA MONOMODO, FUNDA PROTECCIÓN 3 MM, 2 M LONGITUD, CON CONECTOR ST, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Rack comunicaciones sala control, bandeja 24 conectores	1	24.00			24.00	
	Rack comunicaciones edificio boca sur, bandeja 24 conectores	1	24.00			24.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Rack comunicaciones edificio boca sur, bandeja 12 conectores	2	12.00			24.00	
	Rack comunicaciones edificio boca norte, bandeja 12 conectores	2	12.00			24.00	
	Fibras monomodo, Galerías SE-1	1	24.00			24.00	
	Fibras monomodo, Galerías SE-4	1	24.00			24.00	
	Fibras monomodo, Galerías SE-7	1	24.00			24.00	168.00
	Según mediciones auxiliares	1	214.00			214.00	214.00
							382.000

997.0138N1 ud BANDEJA DE EMPALME FIBRA ÓPTICA

SUMINISTRO E INSTALACIÓN DE BANDEJA DE EMPALME PARA FIBRA ÓPTICA, EXTRAÍBLE, FORMATO RACK 19", 1 U DE ALTURA, INCLUYENDO PANEL DE PARCHEO ADECUADO A 16 CONECTORES SC/PC, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	12	12.00	12.00	
				12.000

997.0139N1 ud EMPALME RECTO 16 FO FINAL DE BOBINA

REALIZACIÓN DE EMPALME RECTO DE 16 FIBRAS ÓPTICAS, FINAL DE BOBINA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.

Empalme de FO	2	2.00	2.00	
				2.000

997.0811N1 ud FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA FIBRA ÓPTICA

REALIZACIÓN DE FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA PARA FIBRA ÓPTICA DE CONEXIÓN A EQUIPOS. INCLUSO EQUIPOS PARA PRUEBAS, MANO DE OBRA, INFORME DE PRUEBAS, PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.

CÁMARAS	36	36.00	
POSTES SOS	20	20.00	
PANELES	14	14.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LOCALES TÉCNICOS	24	2.00			48.00	
	CENTRO CONTROL	6	1.00			6.00	124.00
							124.000

SUBAPARTADO 04.2.1.16 DETECCIÓN AUTOMÁTICA DE INCIDENTES

997.0133N1 ud LATIGUILLO RJ45

LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	5		5.00	5.00
				5.000

997.0140N1 ud ARMARIO RACK DE 19"

ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Armario DAI	1		1.00	1.00
				1.000

997.0141N1 ud PANEL CIEGO DE 2RU

PANEL CIEGO DE 2RU DE ALTURA, 19'', 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

	2		2.00	2.00
				2.000

997.0142N1 ud PANEL CIEGO DE 4RU

PANEL CIEGO DE 4RU DE ALTURA, 19'', 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2.000
997.0143N1	ud PANEL CIEGO CON REJILLA						
	PANEL CIEGO CON REJILLA DE 1RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
							2.000
997.0144N1	ud LICENCIAS DEL SISTEMA DAI						
	SUMINISTRO DE LICENCIA DEL SISTEMA DAI CON 1 ENTRADA DE VIDEO, TOTALMENTE FUNCIONANDO.						
		24				24.00	24.00
							24.000
997.0145N1	ud ANALIZADOR DEL SISTEMA DAI						
	ANALIZADOR DEL SISTEMA DAI TIPO RACK INDUSTRIAL						
							1.000
997.0146N1	ud PUESTA EN MARCHA SISTEMA DAI						
	PUESTA EN MARCHA DEL SISTEMA DAI, Y FORMACIÓN DE OPERADORES.						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 04.2.2 EDIFICIO EQUIPOS BOCA OESTE						
	SUBAPARTADO 04.2.2.1 ARQUITECTURA						
	ELEMENTO 04.2.2.1.1 CIMENTACIONES Y ESTRUCTURA						
997.0147N1	ud ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm						
	ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.						
		337.50				337.50	337.50
							337.500
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Según mediciones auxiliares						
	En zapatas	1	44.00			44.00	
	En vigas de atado	1	25.00			25.00	69.00
							69.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Según mediciones auxiliares						
	En zapatas	1	1,000.00			1,000.00	
	En vigas de atado	1	1,000.00			1,000.00	
	En forjados, vigas, muros y pilares	1	1,000.00			1,000.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							3,000.00
							3,000.000

610.0010N1 m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN

HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.

Según mediciones auxiliares						
En zapatas	1	6.800			6.800	
En vigas de atado	1	2.700			2.700	
						9.500
						9.500

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

Según mediciones auxiliares						
En forjados, vigas, muros y pilares	1	32.82			32.82	32.82
						32.820

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Según mediciones auxiliares						
En forjados, vigas, muros y pilares	1	274.63			274.63	
						274.63
						274.630

ELEMENTO 04.2.2.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA

997.0148N1 m² RECIBIDO DE CERCOS

RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ventanas	8	1.60	1.60		20.48	
	puertas	2	3.50	2.50		17.50	
		4	1.00	2.50		10.00	
		2	2.00	2.50		10.00	57.98
							57.980

997.0149N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

fachadas	2	16.50	4.00	132.00		
	2	12.80	4.00	102.40		
a deducir	-8	1.60	1.60	-20.48		
	-2	3.50	2.50	-17.50		
	-4	1.00	2.50	-10.00		
	-2	2.00	2.50	-10.00	176.42	
						176.420

997.0150N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	particiones	1	15.80		3.20	50.56	
		2	11.60		3.20	74.24	
		-1	2.00		2.50	-5.00	119.80
							119.800

997.0151N1 m ALBARDILLA H.PREFABRICADO BLANCO a=45 cm

ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.

		2	16.20			32.40	
		2	12.60			25.20	
		8	1.60			12.80	70.40
							70.400

997.0153N1 ud ARQUETA LADRILLO DE PASO 51x51x65 cm

ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.

		5				5.00	5.00
							5.000

997.0154N1 ud CALDERETA PLUVIAL EXTENSIBLE

CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4				4.00	4.00
							4.000

997.0155N1 m BAJANTE DE PVC PLUVIALES

BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.

		4	4.00			16.00	16.00
							16.000

997.0156N1 m² CUBIERTA NO TRANSITABLE

CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.

		1	16.00	12.50		200.00	200.00
							200.000

ELEMENTO 04.2.2.1.3 REVESTIMIENTOS Y FALSOS TECHOS

997.0157N1 m² ENFOSCADO MAESTRADO

ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.

fachadas	2	16.50		4.00	132.00	
	2	12.80		4.00	102.40	
a deducir	-8	1.60		1.60	-20.48	
	-2	3.50		2.50	-17.50	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-4	1.00		2.50	-10.00	
		-2	2.00		2.50	-10.00	
	particiones	2	15.80		3.20	101.12	
		4	11.60		3.20	148.48	
		-2	2.00		2.50	-10.00	
							416.02
							416.020

997.0152N1 m² REVESTIMIENTO DE FACHADAS CON MORTERO

REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.

fachadas	2	16.50	4.00	132.00		
	2	12.80	4.00	102.40		
a deducir	-8	1.60	1.60	-20.48		
	-2	3.50	2.50	-17.50		
	-4	1.00	2.50	-10.00		
	-2	2.00	2.50	-10.00	176.42	
						176.420

ELEMENTO 04.2.2.1.4 SOLADOS Y ALICATADOS

997.0158N1 m² PAVIMENTO CONTINUO CUARZO

PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.						
		1	15.80	12.20		192.76	192.76
							192.760

997.0159N1 m LOSA DE HORMIGÓN

LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.

Canaletas instalaciones	1	12.00	0.50		6.00	
	2	5.00	0.50		5.00	
	1	8.70	0.50		4.35	
	2	5.50	0.50		5.50	
	2	10.00	0.50		10.00	
	2	2.00	0.50		2.00	32.85
						32.850

ELEMENTO 04.2.2.1.5 CARPINTERIA DE MADERA Y METALICA

997.0160N1 m² CELOSÍA FIJA LAMAS DE CHAPA

CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

	8	1.60	1.60		20.48	20.48
						20.480

997.0161N1 m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS

PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4	1.00	2.50		10.00	
		2	2.00	2.50		10.00	
		2	3.50	2.50		17.50	37.50
							37.500

ELEMENTO 04.2.2.1.6 VIDRIERIA Y PINTURA

997.0162N1 m² PINTURA AL SILICATO INTERIORES

PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.

fachadas	2	16.50		4.00	132.00	
	2	12.80		4.00	102.40	
a deducir	-8	1.60		1.60	-20.48	
	-2	3.50		2.50	-17.50	
	-4	1.00		2.50	-10.00	
	-2	2.00		2.50	-10.00	
particiones	2	15.80		3.20	101.12	
	4	11.60		3.20	148.48	
	-2	2.00		2.50	-10.00	
						416.02
						416.020

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

SUBAPARTADO 04.2.2.2 INSTALACIONES

997.0163N1 ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W

LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	2			2.00	2.00	
						2.000

997.0164N1 ud LUMINARIA EST. C/ TLD-83HF 2x36W

LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	12			12.00	12.00	
						12.000

997.0165N1 ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO

INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONEXIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	4			4.00	4.00	
						4.000

997.0268N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	150.00			150.00	150.00
							150.000

997.0166N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	1	150.00			150.00	150.00
						150.000

997.0167N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	1	350.00			350.00	350.00
						350.000

997.0007N1 ud EXTINTOR DE POLVO ABC DE 9 kg

EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.

	4				4.00	4.00
						4.000

997.0008N1 ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg

EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.

Edificio Boca Sur	4				4.00	4.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.000

997.0038N1 ud PULSADOR ALAMA DE INCENDIOS

PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Edificio Boca Sur	3				3.00	3.00
						3.000

997.0168N1 ud DETECTOR ÓPTICO DE HUMOS

SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Salas Técnicas Boca Sur	4				4.00	4.00
						4.000

997.0169N1 ud SIRENA INTERIOR

SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Edificio Boca Sur	1				1.00	1.00
						1.000

997.0170N1 m CABLE DETECCIÓN

CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Salas Técnicas Boca Sur	300				300.00	300.00
							300.000
997.0171N1	ud SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
	Edificio Boca Sur	19				19.00	19.00
							19.000
997.0086N1	ud CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA						
	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Edificio técnico boca sur	4				4.00	4.00
							4.000
998.0201N1	PA ACOMETIDA DE LÍNEAS ELÉCTRICAS EN EDIFICIO DE BOCA OESTE DEL TÚNEL						
	PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL EDIFICIO DE LA BOCA OESTE DEL TÚNEL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 04.2.3 EDIFICIO EQUIPOS BOCA ESTE						
	SUBAPARTADO 04.2.3.1 ARQUITECTURA						
	ELEMENTO 04.2.3.1.1 CIMENTACIONES Y ESTRUCTURA						
997.0147N1	ud ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm						
	ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.						
		1	337.50			337.50	337.50
							337.500
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Según mediciones auxiliares						
	En zapatas	1	44.00			44.00	
	En vigas de atado	1	25.00			25.00	69.00
							69.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Según mediciones auxiliares						
	En zapatas	1	1,000.00			1,000.00	
	En vigas de atado	1	1,000.00			1,000.00	
	En forjados, vigas, muros y pilares	1	1,000.00			1,000.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							3,000.00
							3,000.000

610.0010N1 m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN

HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.

Según mediciones auxiliares						
En zapatas	1	6.800			6.800	
En vigas de atado	1	2.700			2.700	
						9.500
						9.500

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

Según mediciones auxiliares						
En forjados, vigas, muros y pilares	1	32.82			32.82	32.82
						32.820

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Según mediciones auxiliares						
En forjados, vigas, muros y pilares	1	274.63			274.63	
						274.63
						274.630

ELEMENTO 04.2.3.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA

997.0148N1 m² RECIBIDO DE CERCOS

RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ventanas	8	1.60	1.60		20.48	
	puertas	2	3.50	2.50		17.50	
		4	1.00	2.50		10.00	
		2	2.00	2.50		10.00	57.98
							57.980

997.0149N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

fachadas	2	16.50	4.00	132.00		
	2	12.80	4.00	102.40		
a deducir	-8	1.60	1.60	-20.48		
	-2	3.50	2.50	-17.50		
	-4	1.00	2.50	-10.00		
	-2	2.00	2.50	-10.00	176.42	
						176.420

997.0150N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	particiones	1	15.80		3.20	50.56	
		2	11.60		3.20	74.24	
		-1	2.00		2.50	-5.00	119.80
							119.800

997.0151N1 m ALBARDILLA H.PREFABRICADO BLANCO a=45 cm

ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.

		2	16.20			32.40	
		2	12.60			25.20	
		8	1.60			12.80	70.40
							70.400

997.0153N1 ud ARQUETA LADRILLO DE PASO 51x51x65 cm

ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.

		5				5.00	5.00
							5.000

997.0154N1 ud CALDERETA PLUVIAL EXTENSIBLE

CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4				4.00	4.00
							4.000

997.0155N1 m BAJANTE DE PVC PLUVIALES

BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.

		4	4.00			16.00	16.00
							16.000

997.0156N1 m² CUBIERTA NO TRANSITABLE

CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.

		1	16.00	12.50		200.00	200.00
							200.000

ELEMENTO 04.2.3.1.3 REVESTIMIENTOS Y FALSOS TECHOS

997.0157N1 m² ENFOSCADO MAESTRADO

ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.

fachadas	2	16.50		4.00	132.00	
	2	12.80		4.00	102.40	
a deducir	-8	1.60		1.60	-20.48	
	-2	3.50		2.50	-17.50	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-4	1.00		2.50	-10.00	
		-2	2.00		2.50	-10.00	
	particiones	2	15.80		3.20	101.12	
		4	11.60		3.20	148.48	
		-2	2.00		2.50	-10.00	
							416.02
							416.020

997.0152N1 m² REVESTIMIENTO DE FACHADAS CON MORTERO

REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.

fachadas	2	16.50	4.00	132.00		
	2	12.80	4.00	102.40		
a deducir	-8	1.60	1.60	-20.48		
	-2	3.50	2.50	-17.50		
	-4	1.00	2.50	-10.00		
	-2	2.00	2.50	-10.00	176.42	
						176.420

ELEMENTO 04.2.3.1.4 SOLADOS Y ALICATADOS

997.0158N1 m² PAVIMENTO CONTINUO CUARZO

PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.						
		1	15.80	12.20		192.76	192.76
							192.760

997.0159N1 m LOSA DE HORMIGÓN

LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.

Canaletas instalaciones	1	12.00	0.50		6.00	
	2	5.00	0.50		5.00	
	1	8.70	0.50		4.35	
	2	5.50	0.50		5.50	
	2	10.00	0.50		10.00	
	2	2.00	0.50		2.00	32.85
						32.850

ELEMENTO 04.2.3.1.5 CARPINTERIA DE MADERA Y METALICA

997.0160N1 m² CELOSÍA FIJA LAMAS DE CHAPA

CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

	8	1.60	1.60		20.48	20.48
						20.480

997.0161N1 m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS

PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4	1.00	2.50		10.00	
		2	2.00	2.50		10.00	
		2	3.50	2.50		17.50	37.50
							37.500

ELEMENTO 04.2.3.1.6 VIDRIERIA Y PINTURA

997.0162N1 m² PINTURA AL SILICATO INTERIORES

PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.

fachadas	2	16.50		4.00	132.00	
	2	12.80		4.00	102.40	
a deducir	-8	1.60		1.60	-20.48	
	-2	3.50		2.50	-17.50	
	-4	1.00		2.50	-10.00	
	-2	2.00		2.50	-10.00	
particiones	2	15.80		3.20	101.12	
	4	11.60		3.20	148.48	
	-2	2.00		2.50	-10.00	
						416.02
						416.020

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

SUBAPARTADO 04.2.3.2 INSTALACIONES

997.0163N1 ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W

LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	2			2.00	2.00	
						2.000

997.0164N1 ud LUMINARIA EST. C/ TLD-83HF 2x36W

LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	12			12.00	12.00	
						12.000

997.0165N1 ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO

INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONEXIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	4			4.00	4.00	
						4.000

997.0268N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	150.00			150.00	150.00
							150.000

997.0166N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	1	150.00			150.00	150.00
						150.000

997.0167N1 m CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm²

CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

	1	350.00			350.00	350.00
						350.000

997.0007N1 ud EXTINTOR DE POLVO ABC DE 9 kg

EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.

	4				4.00	4.00
						4.000

997.0008N1 ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg

EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.

Edificio Boca Sur	4				4.00	4.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.000

997.0038N1 ud PULSADOR ALAMA DE INCENDIOS

PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Edificio Boca Sur	3				3.00	3.00
						3.000

997.0168N1 ud DETECTOR ÓPTICO DE HUMOS

SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Salas Técnicas Boca Sur	4				4.00	4.00
						4.000

997.0169N1 ud SIRENA INTERIOR

SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Edificio Boca Sur	1				1.00	1.00
						1.000

997.0170N1 m CABLE DETECCIÓN

CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Salas Técnicas Boca Sur	300				300.00	300.00
							300.000
997.0171N1	ud SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
	Edificio Boca Sur	19				19.00	19.00
							19.000
997.0086N1	ud CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA						
	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
	Edificio técnico boca sur	4				4.00	4.00
							4.000
998.0301N1	PA ACOMETIDA DE LÍNEAS ELÉCTRICAS EN EDIFICIO DE BOCA ESTE DEL TÚNEL						
	PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL EDIFICIO DE LA BOCA ESTE DEL TÚNEL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. PASO AÉREO SUBTERRÁNEO A.T. CON IZADO DE CABLE SUBTERRÁNEO EN APOYO, PROTECCIÓN CON TUBO PLÁSTICO HASTA 3 METROS Y CONEXIÓN CON RED AÉREA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.						
		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000
	APARTADO 04.2.4 CENTRO DE CONTROL						
	SUBAPARTADO 04.2.4.1 ARQUITECTURA						
	ELEMENTO 04.2.4.1.1 CIMENTACIONES Y ESTRUCTURA						
997.0147N1	ud ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm						
	ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.						
		1	337.50			337.50	337.50
							337.500
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Según mediciones auxiliares						
	En zapatas	1	90.00			90.00	
	En vigas de atado	1	50.00			50.00	140.00
							140.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Según mediciones auxiliares						
	En zapatas	1	2,200.00			2,200.00	
	En vigas de atado	1	2,400.00			2,400.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	En forjados, vigas, muros y pilares	1	2,600.00			2,600.00	
							7,200.00
							7,200.000

610.0010N1 m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN

HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.

	Según mediciones auxiliares						
	En zapatas	1	6.800			6.800	
	En vigas de atado	1	2.700			2.700	
							9.500
							9.500

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Según mediciones auxiliares						
	En forjados, vigas, muros y pilares	1	32.82			32.82	32.82
							32.820

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Según mediciones auxiliares						
	En forjados, vigas, muros y pilares	1	600.00			600.00	
							600.00
							600.000

ELEMENTO 04.2.4.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA

997.0148N1 m² RECIBIDO DE CERCOS

RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ventanas	16	1.60	1.60		40.96	
	puertas	17	3.50	2.50		148.75	189.71
							189.710

997.0149N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

	fachadas	2	32.00	4.00		256.00	
		2	12.80	4.00		102.40	358.40
							358.400

997.0150N1 m² FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10

FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.

	particiones	1	30.00	3.20		96.00	
		2	24.00	3.20		153.60	249.60
							249.600

997.0151N1 m ALBARDILLA H.PREFABRICADO BLANCO a=45 cm

ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.						
		2	30.00			60.00	
		2	25.00			50.00	
		8	1.60			12.80	122.80
							122.800
997.0153N1	ud ARQUETA LADRILLO DE PASO 51x51x65 cm						
	ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.						
		15				15.00	15.00
							15.000
997.0154N1	ud CALDERETA PLUVIAL EXTENSIBLE						
	CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.						
		14				14.00	14.00
							14.000
997.0155N1	m BAJANTE DE PVC PLUVIALES						
	BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		14	4.00			56.00	56.00
							56.000
997.0156N1	m² CUBIERTA NO TRANSITABLE						
	CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.						
		1	32.00	12.50		400.00	400.00
							400.000
	ELEMENTO 04.2.4.1.3 REVESTIMIENTOS Y FALSOS TECHOS						
997.0157N1	m² ENFOSCADO MAESTRADO						
	ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.						
	fachadas	2	32.00	4.00		256.00	
		2	12.80	4.00		102.40	
	particiones	2	30.00	3.20		192.00	
		4	24.00	3.20		307.20	
							857.60
							857.600
997.0152N1	m² REVESTIMIENTO DE FACHADAS CON MORTERO						
	REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABU-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	JARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.						
	fachadas	2	32.00		4.00	256.00	
		2	12.80		4.00	102.40	358.40
							358.400
	ELEMENTO 04.2.4.1.4 SOLADOS Y ALICATADOS						
997.0158N1	m² PAVIMENTO CONTINUO CUARZO						
	PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.						
		1	32.00	12.20		390.40	390.40
							390.400
997.0159N1	m LOSA DE HORMIGÓN						
	LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.						
	Canaletas instalaciones	1	12.00	0.50		6.00	
		2	5.00	0.50		5.00	
		1	8.70	0.50		4.35	
		2	5.50	0.50		5.50	
		2	10.00	0.50		10.00	
		2	2.00	0.50		2.00	32.85
							32.850

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ELEMENTO 04.2.4.1.5 CARPINTERIA DE MADERA Y METALICA						
997.0160N1	m² CELOSÍA FIJA LAMAS DE CHAPA						
	CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).						
		17	1.60	1.60		43.52	43.52
							43.520
997.0161N1	m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS						
	PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).						
		4	1.00	2.50		10.00	
		2	2.00	2.50		10.00	
		2	3.50	2.50		17.50	37.50
							37.500
	ELEMENTO 04.2.4.1.6 VIDRIERIA Y PINTURA						
997.0162N1	m² PINTURA AL SILICATO INTERIORES						
	PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.						
	fachadas	2	32.00		4.00	256.00	
		2	12.80		4.00	102.40	
	particiones	2	30.00		3.20	192.00	
		4	24.00		3.20	307.20	
							857.60

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							857.600
	SUBAPARTADO 04.2.4.2 INSTALACIONES						
997.0163N1	ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W						
	LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		40				40.00	40.00
							40.000
997.0164N1	ud LUMINARIA EST. C/ TLD-83HF 2x36W						
	LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		70				70.00	70.00
							70.000
997.0165N1	ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO						
	INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONEXIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		20				20.00	20.00
							20.000
997.0268N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²						
	CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		1	350.00			350.00	350.00
							350.000
997.0166N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm²						
	CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		1	350.00			350.00	350.00
							350.000
997.0167N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm²						
	CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		1	800.00			800.00	800.00
							800.000
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg						
	EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.						
		16				16.00	16.00
							16.000
997.0008N1	ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg						
	EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		10				10.00	10.00
							10.000
997.0038N1	ud PULSADOR ALAMA DE INCENDIOS						
	PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		10				10.00	10.00
							10.000
997.0168N1	ud DETECTOR ÓPTICO DE HUMOS						
	SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		14				14.00	14.00
							14.000
997.0169N1	ud SIRENA INTERIOR						
	SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		3				3.00	3.00
							3.000
997.0170N1	m CABLE DETECCIÓN						
	CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		700				700.00	700.00
							700.000
997.0171N1	ud SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP						
		70				70.00	70.00
							70.000
997.0086N1	ud CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA						
	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		6				6.00	6.00
							6.000
998.0101N1	PA ACOMETIDA DE LÍNEAS ELÉCTRICAS EN CENTRO DE CONTROL						
	PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. PASO AÉREO SUBTERRÁNEO A.T. CONIZADO DE CABLE SUBTERRÁNEO EN APOYO, PROTECCIÓN CON TUBO PLÁSTICO HASTA 3 METROS Y CONEXIÓN CON RED AÉREA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.						
		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000
998.0102N1	PA ACOMETIDA DE LÍNEAS TELEFÓNICAS EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS TELEFÓNICAS EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE APOYO DE HORMIGÓN VIBRADO, EXCAVACIÓN Y HORMIGONADO DE ZAPATA, TOTALMENTE TERMINADO. SUMINISTRO E INSTALACIÓN DE CABLE DE RED DE DISTRIBUCIÓN DE TELEFONÍA Y PARTE PROPORCIONAL DE ACCESORIOS						
		1				1.00	1.00
							1.000
998.0103N1	PA ACOMETIDA DE ABASTACIMIENTO EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE ABASTECIMIENTO EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE TUBERÍA SOBRE CAMA DE ARENA, EXCAVACION, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1				1.00	1.00
							1.000
998.0104N1	PA ACOMETIDA DE SANEAMIENTO EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE SANEAMIENTO EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE TUBERÍA SOBRE CAMA DE ARENA, EXCAVACION, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 04.2.5 MANUAL DE EXPLOTACIÓN						
997.0172N1	PA.IAMANUAL DE EXPLOTACIÓN PA DE ABONO INTEGRO DE REDACCIÓN DEL MANUAL DE EXPLOTACIÓN DEL TÚNEL CON EL ALCANCE DESCRITO EN PPTP						
		1				1.00	1.00
							1.000
	SUBCAPÍTULO 04.3 PLAN DE EMERGENCIA						
997.0173N1	ud GRUPO ELECTRÓGENO 450 KVA GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO 450 KVA, 400 V, 50 HZ, 1.500 R.P.M., CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO PARA 8 HORAS DE FUNCIONAMIENTO CONTINUO A PLENA CARGA, INCLUIDO TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.						
		2				2.00	2.00
							2.000
997.0174N1	ud INSTALACIÓN DE ALUMBRADO DE EMERGENCIA INSTALACIÓN DE ALUMBRADO DE EMERGENCIA CON LUMINARIAS FLUORESCENTES DOBLES DE 36 W CADA 20 M, CON UNO DE LOS TUBOS FLUORESCENTES CON AUTONOMÍA DE 1 HORA						
		1	2,400.00			2,400.00	2,400.00
							2,400.000
997.0175N1	ud GENÓFONO SUMINISTRO Y MONTAJE DE GENÓFONO CON PINZA DE CONEXIÓN MÓVIL. TOTALMENTE INSTALADO.						
		1	2.00			2.00	
		1	2.00			2.00	4.00
							4.000
997.0176N1	ud RED DE BIE's SUMINISTRO Y MONTAJE DE UNA RED DE BIE'S DURANTE LA CONSTRUCCIÓN DE TÚNEL, DOTADO DE DEPÓSITO DE ACERO DE 40 M3 DE AGUA, GRUPO DE PROTECCIÓN CONTRA INCENDIOS Y BOCAS DE INCENDIOS EQUIPADAS, IN-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CLUSO LAS TUBERÍAS Y ELEMENTOS DE ANCLAJE. TOTAL-MENTE INSTALADO						
		2				2.00	2.00
							2.000
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg						
	EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRA-SA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.						
		2	25.00			50.00	
							50.00
							50.000
997.0008N1	ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg						
	EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.						
	Casetas Eléctricas Boca Norte	4				4.00	
	Casetas Eléctricas Boca Sur	4				4.00	
		2				2.00	
							10.00
							10.000
997.0004N1	ud SEÑAL PVC FOTOLUMINISCENTE 300 x 210 mm						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLU-MINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELI-GRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 300 X 210 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INS-TALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.						
		2				2.00	2.00
							2.000
997.0003N1	ud SEÑAL FOTOLUMINISCENTE 700 x 500 mm						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLU-MINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	GRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNI-LLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TO-TALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SE-GÚN PPTP.						
	Calzada izquierda	88				88.00	
	Calzada derecha	89				89.00	
	Galerías de emergencia	28				28.00	205.00
							205.000
997.0003N2	ud SEÑAL FOTOLUMINISCENTE 1500 x 1500 mm						
	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLU-MINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELI-GRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNI-LLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 1500 X 1500 MM, I/ PEQUEÑO MATERIAL TO-TALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SE-GÚN PPTP.						
	Galerías de emergencia	32				32.00	32.00
							32.000
997.0177N1	ud SISTEMA DE AIRE COMPRIMIDO						
	SUMINISTRO Y MONTAJE DE SISTEMA DE AIRE COMPRIMI-DO COMPUESTO POR COMPRESORES EXENTOS DE ACEITE, CON UNA PRESIÓN DE TRABAJO DE 6 BARG Y UN CAUDAL DE 25.9 M3/MIN, 1 DEPÓSITO DE 6000 LITROS Y TUBERÍA DE ACERO GALVANIZADO DN-80. TOTALMENTE INSTALA-DO Y PUESTO EN SERVICIO						
		2				2.00	2.00
							2.000
997.0178N1	ud TRAJE IGNÍFUGO						
	SUMINISTRO DE TRAJE IGNÍFUGO PARA EQUIPO DE SEGUN-DA INTERVENCIÓN, INCLUSO CASCO, BOTAS Y GUANTES APTOS Y HOMOLOGADOS PARA UN EQUIPO DE SEGUNDA INTERVENCIÓN SEGÚN NORMA 531.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		60				60.00	60.00
							60.000

997.0179N1 ud EQUIPO DE RESPIRACIÓN AUTÓNOMA

SUMINISTRO DE EQUIPO DE RESPIRACIÓN AUTÓNOMA, INCLUYENDO MÁSCARA, REGULADOR, TUBOS, MANÓMETROS, BOTELLA DE 6 LITROS A 300 BAR Y ANCLAJES.

		60				60.00	60.00
							60.000

997.0180N1 ud ARMARIO PARA PUESTO INCENDIOS 1200 x 400 x 1600

ARMARIO PARA PUESTO DE INCENDIOS FABRICADO CON PERFILES HUECOS DE ACERO Y CHAPA DE ACERO GALVANIZADA DE 1 MM.DE ESPESOR, MEDIDAS EXTERIORES DE 1200 MM.DE LONGITUD, 400 MMDE ANCHO Y 1600 MM.DE ALTURA, CON DOS PUERTAS FRONTALES DE REJILLA METÁLICA DOTADAS DE CIERRE INDEPENDIENTE DE FACIL APERTURA (SIN LLAVE), SEGÚN DETALLE EN PLANOS, ANCLADO AL SUELO CON TACOS Y TORNILLOS METÁLICOS, INCLUSO MANOS DE PINTURA, ESMALTE ANTICORROSIVO HAMMERITE, TERMINADO E INSTALADO.

Trajes	6			6.00	
Respiración autónoma	6			6.00	12.00
					12.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 05 ESTRUCTURAS						
	SUBCAPÍTULO 05.1 PÉRGOLA 1.8						
	APARTADO 05.1.1 HASTIALES						
	SUBAPARTADO 05.1.1.1 HASTIAL 1						
	ELEMENTO 05.1.1.1.1 CIMENTACIÓN						

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Hastial 1

Sección Tipo A1							
	1		30.48	90.28		2,751.73	
Sección Tipo A2							
	1		9.00	91.36		822.24	
Sección Tipo B1							
	1		13.70	8.58	1.95	229.21	
	1		13.70		70.73	969.00	
Sección Tipo B2							
	1		28.41	8.60	1.99	486.21	
	1		28.41		70.24	1,995.52	7,253.91
							7,253.910

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Hastial 1						
	Sección Tipo A1						
		1	30.48	90.28		2,751.73	
	A descontar	-1	30.48	6.60	0.10	-20.12	
		-1	30.48	6.40	1.10	-214.58	
		-1	30.48	0.80	7.56	-184.34	
	Sección Tipo A2						
		1	9.00	91.36		822.24	
	A descontar	-1	9.00	7.20	0.10	-6.48	
		-1	9.00	7.00	1.10	-69.30	
		-1	9.00	0.80	7.54	-54.29	
	Sección Tipo B1						
		1	13.70	8.58	1.95	229.21	
		1	13.70		70.73	969.00	
	A descontar	-1	13.70	6.70	0.10	-9.18	
		-1	13.70	6.50	1.10	-97.96	
		-1	13.70	0.80	7.54	-82.64	
	Sección Tipo B2						
		1	28.41	8.60	1.99	486.21	
		1	28.41		70.24	1,995.52	
	A descontar	-1	28.41	6.70	0.10	-19.03	
		-1	28.41	6.50	1.10	-203.13	
		-1	28.41	0.80	7.51	-170.69	6,122.17
							6,122.170

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Hastial 1

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo A1						
		2	30.48		1.10	67.06	
		2		6.40	1.10	14.08	
	Sección Tipo A2						
		2	9.00		1.10	19.80	
		2		7.00	1.10	15.40	
	Sección Tipo B1						
		2	13.70		1.10	30.14	
		2		6.50	1.10	14.30	
	Sección Tipo B2						
		2	28.41		1.10	62.50	
		1		6.50	1.10	7.15	230.43
							230.430

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

Hastial 1

	Sección Tipo A1						
		1	30.48	6.60	0.10	20.12	
	Sección Tipo A2						
		1	9.00	7.20	0.10	6.48	
	Sección Tipo B1						
		1	13.70	6.70	0.10	9.18	
	Sección Tipo B2						
		1	28.41	6.70	0.10	19.03	54.81
							54.810

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Hastial 1						
	Sección Tipo A1						
		1	30.48	6.40	1.10	214.58	
	Sección Tipo A2						
		1	9.00	7.00	1.10	69.30	
	Sección Tipo B1						
		1	13.70	6.50	1.10	97.96	
	Sección Tipo B2						
		1	28.41	6.50	1.10	203.13	584.97
							584.970

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

	Hastial 1						
	Sección Tipo A1						
		2	30.48		1.10	67.06	
		2		6.40	1.10	14.08	
		1	30.48	6.40		195.07	
	Sección Tipo A2						
		2	9.00		1.10	19.80	
		2		7.00	1.10	15.40	
		1	9.00	7.00		63.00	
	Sección Tipo B1						
		2	13.70		1.10	30.14	
		2		6.50	1.10	14.30	
		1	13.70	6.50		89.05	
	Sección Tipo B2						
		2	28.41		1.10	62.50	
		2		6.50	1.10	14.30	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	28.41	6.50		184.67	769.37
							769.370

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Hastial 1						
Sección Tipo A1						
Cimentación	1	31,022.57			31,022.57	
Sección Tipo A2						
Cimentación	1	11,405.38			11,405.38	
Sección Tipo B1						
Cimentación	1	15,796.20			15,796.20	
Sección Tipo B2						
Cimentación	1	33,711.02			33,711.02	91,935.17
						91,935.170

ELEMENTO 05.1.1.1.2 ALZADO

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

S/ Despieces						
Hastial 1						
Sección Tipo A1						
Alzado	1	17,316.58			17,316.58	
Ménsula	1	469.99			469.99	
Losa de transición	1	1,417.40			1,417.40	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo A2						
	Alzado	1	5,154.63			5,154.63	
	Sección Tipo B1						
	Alzado	1	11,914.54			11,914.54	
	Sección Tipo B2						
	Alzado	1	17,949.98			17,949.98	54,223.12
							54,223.120

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Hastial 1						
	Sección Tipo A1						
	Hastial	1	30.48	0.80	6.36	155.08	
	Ménsula	1	12.91	0.30	0.65	2.52	
	Sección Tipo A2						
		1	9.00	0.80	6.34	45.65	
	Sección Tipo B1						
		1	13.70	0.80	6.34	69.49	
	Sección Tipo B2						
		1	28.41	0.80	6.31	143.41	416.15
							416.150

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Hastial 1						
	Sección Tipo A1						
	Hastial	1	30.48		6.36	193.85	
	Ménsula	1	12.91		0.50	6.46	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	12.91	0.42		5.42	
		2		0.30	0.65	0.39	
	Losa de transición	1	12.09		0.30	3.63	
		1	11.51		0.30	3.45	
		1		12.43	0.30	3.73	
		1		13.06	0.30	3.92	
	Sección Tipo A2						
		1	9.00		6.34	57.06	
	Sección Tipo B1						
		1	13.70		6.34	86.86	
	Sección Tipo B2						
		1	28.41		6.31	179.27	544.04
							544.040

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Hastial 1						
	Sección Tipo A1						
		1	30.48		6.36	193.85	
	Sección Tipo A2						
		1	9.00		6.34	57.06	
	Sección Tipo B1						
		1	13.70		6.34	86.86	
	Sección Tipo B2						
		1	28.41		6.31	179.27	517.04
							517.040

411.0014N1 m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS

LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Hastial 1						
	Sección Tipo A1						
		1	30.48		5.56	169.47	
	Sección Tipo A2						
		1	9.00		5.54	49.86	
	Sección Tipo B1						
		1	13.70		5.54	75.90	
	Sección Tipo B2						
		1	28.41		5.51	156.54	451.77
							451.770

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

	Hastial 1						
	Sección Tipo A1						
		1	30.48		6.36	193.85	
	Sección Tipo A2						
		1	9.00		6.34	57.06	
	Sección Tipo B1						
		1	13.70		6.34	86.86	
	Sección Tipo B2						
		1	28.41		6.31	179.27	517.04
							517.040

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Hastial 1						
	Sección Tipo A1						
		1	30.48			30.48	
	Sección Tipo A2						
		1	9.00			9.00	
	Sección Tipo B1						
		1	13.70			13.70	
	Sección Tipo B2						
		1	28.41			28.41	81.59
							81.590

691.0010N1 m JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO

JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.

	Hastial 1						
	Sección Tipo A1						
		1			6.360	6.360	
	Sección Tipo A2						
		1			6.340	6.340	
	Sección Tipo B1						
		1			6.330	6.330	
	Sección Tipo B2						
		1			6.280	6.280	25.310
							25.310

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	Hastial 1						
	Sección Tipo A1						
	Losa de transición	1	11.80	5.00	0.10	5.90	5.90

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							5.900
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Hastial 1						
	Sección Tipo A1						
	Losa de transición	1	11.80	5.00	0.30	17.70	17.70
							17.700
	SUBAPARTADO 05.1.1.2 HASTIAL 2						
	ELEMENTO 05.1.1.2.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89	8.50	1.99	319.52	
		1	18.89		86.53	1,634.55	
	Sección Tipo C2						
		1	18.89	8.50	1.99	319.52	
		1	18.89		80.11	1,513.28	
	Sección Tipo D1						
		1	9.00	98.63		887.67	
	Sección Tipo D2						
		1	24.19	8.80	1.99	423.62	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	24.19		72.17	1,745.79	6,843.95
							6,843.950
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Hastial 2						
	Sección Tipo C1						
		1	18.89	8.80	1.99	330.80	
		1	18.89		86.53	1,634.55	
	A descontar	-1	18.89	6.50	0.10	-12.28	
		-1	18.89	6.30	1.10	-130.91	
		-1	18.89	0.80	8.83	-133.44	
	Sección Tipo C2						
		1	18.89	8.80	1.99	330.80	
		1	18.89		80.11	1,513.28	
	A descontar	-1	18.89	6.50	0.10	-12.28	
		-1	18.89	6.30	1.10	-130.91	
		-1	18.89	0.80	8.47	-128.00	
	Sección Tipo D1						
		1	9.00	98.63		887.67	
	A descontar	-1	9.00	7.20	0.10	-6.48	
		-1	9.00	7.00	1.10	-69.30	
		-1	9.00	0.80	8.10	-58.32	
	Sección Tipo D2						
		1	24.19	8.80	1.99	423.62	
		1	24.19		72.17	1,745.79	
	A descontar	-1	24.19	6.80	0.10	-16.45	
		-1	24.19	6.40	1.10	-170.30	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-1	24.19	0.80	7.54	-145.91	5,851.93
							5,851.930
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Hastial 2						
	Sección Tipo C1						
		2	18.89		1.10	41.56	
		2		6.30	1.10	13.86	
	Sección Tipo C2						
		2	18.89		1.10	41.56	
		2		6.30	1.10	13.86	
	Sección Tipo D1						
		2	9.00		1.10	19.80	
		2		7.00	1.10	15.40	
	Sección Tipo D2						
		2	24.19		1.10	53.22	
		2		6.60	1.10	14.52	213.78
							213.780
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89	6.50	0.10	12.28	
	Sección Tipo C2						
		1	18.89	6.50	0.10	12.28	
	Sección Tipo D1						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	9.00	7.20	0.10	6.48	
	Sección Tipo D2						
		1	24.19	6.80	0.10	16.45	47.49
							47.490
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89	6.30	1.10	130.91	
	Sección Tipo C2						
		1	18.89	6.30	1.10	130.91	
	Sección Tipo D1						
		1	9.00	7.00	1.10	69.30	
	Sección Tipo D2						
		1	24.19	6.60	1.10	175.62	506.74
							506.740
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Hastial 2						
	Sección Tipo C1						
		2	18.89		1.10	41.56	
		2		6.30	1.10	13.86	
		1	18.89	6.30		119.01	
	Sección Tipo C2						
		2	18.89		1.10	41.56	
		2		6.30	1.10	13.86	
		1	18.89	6.30		119.01	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo D1						
		2	9.00		1.10	19.80	
		2		7.00	1.10	15.40	
		1	9.00	7.00		63.00	
	Sección Tipo D2						
		2	24.19		1.10	53.22	
		2		6.60	1.10	14.52	
		1	24.19	6.60		159.65	674.45
							674.450

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

	S/ Despieces						
	Hastial 2						
	Sección Tipo C1						
	Cimentación	1	21,126.26			21,126.26	
	Sección Tipo C2						
	Cimentación	1	22,147.65			22,147.65	
	Sección Tipo D1						
	Cimentación	1	12,658.93			12,658.93	
	Sección Tipo D2						
	Cimentación	1	27,550.11			27,550.11	83,482.95
							83,482.950

ELEMENTO 05.1.1.2.2 ALZADO

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Hastial 2						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Sección Tipo C1						
	Hastial	1	18.89	0.80	7.63	115.30	
	Ménsula	1	4.80	0.30	0.65	0.94	
	Sección Tipo C2						
		1	18.89	0.80	7.27	109.86	
	Sección Tipo D1						
		1	9.00	0.80	6.90	49.68	
	Sección Tipo D2						
		1	24.19	0.80	6.34	122.69	398.47
							398.470

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Hastial 2						
	Sección Tipo C1						
	Hastial	1	18.89		7.63	144.13	
	Ménsula	1	4.80		0.50	2.40	
		1	4.80	0.42		2.02	
		2		0.30	0.65	0.39	
	Losa de transición	2	4.60		0.30	2.76	
		2		5.00	0.30	3.00	
	Sección Tipo C2						
		1	18.89		7.27	137.33	
	Sección Tipo D1						
		1	9.00		6.90	62.10	
	Sección Tipo D2						
		1	24.19		6.34	153.36	507.49
							507.490

680.0030 m² ENCOFRADO VISTO PLANO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89		7.63	144.13	
	Sección Tipo C2						
		1	18.89		7.27	137.33	
	Sección Tipo D1						
		1	9.00		6.90	62.10	
	Sección Tipo D2						
		1	24.19		6.34	153.36	496.92
							496.920
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89		7.63	144.13	
	Sección Tipo C2						
		1	18.89		7.27	137.33	
	Sección Tipo D1						
		1	9.00		6.90	62.10	
	Sección Tipo D2						
		1	24.19		6.34	153.36	496.92
							496.920
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
	Hastial 2						
	Sección Tipo C1						
		1	18.89			18.89	
	Sección Tipo C2						
		1	18.89			18.89	
	Sección Tipo D1						
		1	9.00			9.00	
	Sección Tipo D2						
		1	24.19			24.19	70.97
							70.970
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
	Hastial 2						
	Sección Tipo C1						
		1	18.89	6.83		129.02	
	Sección Tipo C2						
		1	18.89	6.47		122.22	
	Sección Tipo D1						
		1	9.00	6.10		54.90	
	Sección Tipo D2						
		1	24.19	5.54		134.01	440.15
							440.150
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BRE RECOCIDO Y SEPARADORES.						
	S/ Despieces						
	Hastial 2						
	Sección Tipo C1						
	Alzado	1	13,662.35			13,662.35	
	Ménsula	1	179.09			179.09	
	Losa de transición	1	666.51			666.51	
	Sección Tipo C2						
	Alzado	1	16,062.21			16,062.21	
	Sección Tipo D1						
	Alzado	1	5,911.34			5,911.34	
	Sección Tipo D2						
	Alzado	1	14,775.37			14,775.37	51,256.87
							51,256.870
691.0010N1	m JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO						
	JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.						
	Hastial 2						
	Sección Tipo C1						
		1		7.490	7.490		
	Sección Tipo C2						
		1		7.040	7.040		
	Sección Tipo D1						
		1		6.900	6.900		
	Sección Tipo D2						
		1		6.340	6.340	27.770	
							27.770
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLE-						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Hastial 2						
	Sección Tipo C						
	Losa de transición	1	4.60	5.00	0.10	2.30	2.30
							2.300
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Hastial 2						
	Sección Tipo C						
	Losa de transición	1	4.60	5.00	0.30	6.90	6.90
							6.900

SUBAPARTADO 05.1.1.3 ALETAS

ELEMENTO 05.1.1.3.1 CIMENTACIÓN

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Aleta 1						
	Módulo 1						
		1		4.25	10.88	3.35	154.90
		1		4.25	10.06	5.95	254.39
	Módulo 2						
		1		4.20	10.23	3.35	143.94
		1		4.20	9.13	4.41	169.11

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 3						
		1	3.50	9.43	3.35	110.57	
		1	3.50	8.33	3.01	87.76	
	Módulo 4						
		1	2.59	8.68	3.35	75.31	
		1	2.59	7.43	1.80	34.64	
	Aleta 2						
	Módulo 1						
		1	3.50	9.40	2.30	75.67	
		1	3.50	9.35	7.81	255.58	
	Módulo 2						
		1	4.50	8.30	2.10	78.44	
		1	4.50	7.90	5.99	212.94	
	Módulo 3						
		1	4.50	7.05	1.90	60.28	
		1	4.50	6.21	3.84	107.31	
	Módulo 4						
		1	7.00	4.75	1.60	53.20	
		1	7.00	3.98	1.33	37.05	
	Aleta 3						
	Módulo 1						
		1	5.50	8.85	2.20	107.09	
		1	5.50	8.42	5.85	270.91	
	Módulo 2						
		1	5.00	7.58	2.25	85.28	
		1	5.00	6.65	3.91	130.01	
	Módulo 3						
		1	8.03	5.11	1.72	70.58	
		1	8.03	4.41	1.67	59.14	
	Aleta 4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 1						
		1	7.30	8.65	2.10	132.60	
		1	7.30	8.18	5.73	342.16	
	Módulo 2						
		1	5.00	8.08	1.95	78.78	
		1	5.00	7.33	4.22	154.66	
	Módulo 3						
		1	5.00	7.47	1.83	68.35	
		1	5.00	6.44	2.69	86.62	
	Módulo 4						
		1	6.71	4.68	1.15	36.11	
		1	6.71	3.94	1.85	48.91	3,582.29
							3,582.290

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

Aleta 1						
Módulo 1						
	1	4.25	96.33		409.40	
A descontar	-1	4.35	8.20	0.10	-3.57	
	-1	4.25	8.00	1.40	-47.60	
	-1	4.25	0.89	7.80	-29.50	
Módulo 2						
	1	4.20	74.51		312.94	
A descontar	-1	4.20	7.55	0.10	-3.17	
	-1	4.20	7.35	1.30	-40.13	
	-1	4.20	0.82	1.30	-4.48	
Módulo 3						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.50	56.64		198.24	
	A descontar	-1	3.50	6.75	0.10	-2.36	
		-1	3.50	6.55	1.10	-25.22	
		-1	3.50	0.76	5.16	-13.73	
	Módulo 4						
		1	2.59	42.43		109.89	
	A descontar	-1	2.59	6.00	0.10	-1.55	
		-1	2.59	5.80	1.00	-15.02	
		-1	2.59	0.70	4.05	-7.34	
	Aleta 2						
	Módulo 1						
		1	3.50	94.66		331.31	
	A descontar	-1	3.70	7.25	0.10	-2.68	
		-1	3.50	7.05	1.50	-37.01	
		-1	3.50	0.93	8.51	-27.70	
	Módulo 2						
		1	4.50	64.74		291.33	
	A descontar	-1	4.70	6.25	0.10	-2.94	
		-1	4.50	6.05	1.30	-35.39	
		-1	4.50	0.83	6.69	-24.99	
	Módulo 3						
		1	4.50	37.24		167.58	
	A descontar	-1	4.70	5.10	0.10	-2.40	
		-1	4.50	4.90	1.10	-24.26	
		-1	4.50	0.73	4.54	-14.91	
	Módulo 4						
		1	7.00	12.90		90.30	
	A descontar	-1	6.20	2.95	0.10	-1.83	
		-1	6.00	2.75	0.80	-13.20	
		-1	6.00	0.40	2.03	-4.87	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Aleta 3						
	Módulo 1						
		1	5.50	68.68		377.74	
	A descontar	-1	5.70	6.75	0.10	-3.85	
		-1	5.50	6.55	1.30	-46.83	
		-1	5.50	0.83	6.65	-30.36	
	Módulo 2						
		1	5.00	43.06		215.30	
	A descontar	-1	5.20	5.45	0.10	-2.83	
		-1	5.00	5.25	1.10	-28.88	
		-1	5.00	0.75	4.96	-18.60	
	Módulo 3						
		1	8.03	15.89		127.60	
	A descontar	-1	7.20	3.25	0.10	-2.34	
		-1	7.00	3.05	0.80	-17.08	
		-1	7.00	0.42	2.43	-7.14	
	Aleta 4						
	Módulo 1						
		1	7.30	65.05		474.87	
	A descontar	-1	7.50	6.60	0.10	-4.95	
		-1	7.30	6.40	1.30	-60.74	
		-1	7.30	0.75	4.97	-27.21	
	Módulo 2						
		1	5.00	46.68		233.40	
	A descontar	-1	5.20	6.10	0.10	-3.17	
		-1	5.00	5.90	1.10	-32.45	
		-1	5.00	0.75	4.97	-18.64	
	Módulo 3						
		1	5.00	30.98		154.90	
	A descontar	-1	5.20	5.55	0.10	-2.89	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-1	5.00	5.35	1.00	-26.75	
		-1	5.00	0.67	3.42	-11.46	
	Módulo 4						
		1	6.71	12.66		84.95	
	A descontar	-1	5.92	3.10	0.10	-1.84	
		-1	5.82	2.90	0.40	-6.75	
		-1	5.82	0.30	1.76	-3.07	2,836.07
							2,836.070

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	Aleta 1						
	Módulo 1						
		1	4.35	8.20	0.10	3.57	
	Módulo 2						
		1	4.30	7.55	0.10	3.25	
	Módulo 3						
		1	3.60	6.75	0.10	2.43	
	Módulo 4						
		1	3.25	6.00	0.10	1.95	
	Aleta 2						
	Módulo 1						
		1	3.70	7.25	0.10	2.68	
	Módulo 2						
		1	4.70	6.25	0.10	2.94	
	Módulo 3						
		1	4.70	5.10	0.10	2.40	
	Módulo 4						
		1	6.20	2.95	0.10	1.83	
	Aleta 3						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 1						
		1	5.70	6.75	0.10	3.85	
	Módulo 2						
		1	5.20	5.45	0.10	2.83	
	Módulo 3						
		1	7.20	3.25	0.10	2.34	
	Aleta 4						
	Módulo 1						
		1	7.50	6.60	0.10	4.95	
	Módulo 2						
		1	5.20	6.10	0.10	3.17	
	Módulo 3						
		1	5.20	5.55	0.10	2.89	
	Módulo 4						
		1	6.02	3.10	0.10	1.87	42.95
							42.950

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	Aleta 1						
	Módulo 1						
		1	4.25	8.00	1.40	47.60	
	Módulo 2						
		1	4.20	7.35	1.30	40.13	
	Módulo 3						
		1	3.50	6.55	1.10	25.22	
	Módulo 4						
		1	3.15	5.80	1.00	18.27	
	Aleta 2						
	Módulo 1						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.50	7.05	1.50	37.01	
	Módulo 2						
		1	4.50	6.05	1.30	35.39	
	Módulo 3						
		1	4.50	4.90	1.10	24.26	
	Módulo 4						
		1	6.00	2.75	0.80	13.20	
	Aleta 3						
	Módulo 1						
		1	5.50	6.55	1.30	46.83	
	Módulo 2						
		1	5.00	5.25	1.10	28.88	
	Módulo 3						
		1	7.00	3.05	0.80	17.08	
	Aleta 4						
	Módulo 1						
		1	7.30	6.40	1.30	60.74	
	Módulo 2						
		1	5.00	5.90	1.10	32.45	
	Módulo 3						
		1	5.00	5.35	1.00	26.75	
	Módulo 4						
		1	5.82	2.90	0.40	6.75	460.56
							460.560

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Aleta 1						
	Módulo 1						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimentación	2		8.00	1.40	22.40	
		1	4.17		1.40	5.84	
		1	4.54		1.40	6.36	
	Módulo 2						
	Cimentación	2		7.35	1.30	19.11	
		1	4.18		1.30	5.43	
		1	4.27		1.30	5.55	
	Módulo 3						
	Cimentación	2		6.55	1.10	14.41	
		1	3.49		1.10	3.84	
		1	3.55		1.10	3.91	
	Módulo 4						
	Cimentación	1		5.80	1.00	5.80	
		1		2.83	1.00	2.83	
		1		2.21	1.00	2.21	
		1		1.10	1.00	1.10	
		1	2.05		1.00	2.05	
		1	3.13		1.00	3.13	
	Aleta 2						
	Módulo 1						
	Cimentación	2		7.05	1.50	21.15	
		1	3.52		1.50	5.28	
		1	3.44		1.50	5.16	
	Módulo 2						
	Cimentación	2		6.05	1.30	15.73	
		1	4.52		1.30	5.88	
		1	4.43		1.30	5.76	
	Módulo 3						
	Cimentación	2		4.90	1.10	10.78	
		1	4.51		1.10	4.96	
		1	4.47		1.10	4.92	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 4						
	Cimentación	2		2.75	1.10	6.05	
		1	6.01		1.10	6.61	
		1	5.95		1.10	6.55	
	Aleta 3						
	Módulo 1						
	Cimentación	2		6.55	1.30	17.03	
		1	5.52		1.30	7.18	
		1	5.43		1.30	7.06	
	Módulo 2						
	Cimentación	2		5.25	1.10	11.55	
		1	4.99		1.10	5.49	
		1	5.04		1.10	5.54	
	Módulo 3						
	Cimentación	2		3.05	0.80	4.88	
		1	6.99		0.80	5.59	
		1	7.04		0.80	5.63	
	Aleta 4						
	Módulo 1						
	Cimentación	2		6.40	1.30	16.64	
		1	7.30		1.30	9.49	
		1	7.18		1.30	9.33	
	Módulo 2						
	Cimentación	2		5.90	1.10	12.98	
		1	5.02		1.10	5.52	
		1	4.92		1.10	5.41	
	Módulo 3						
	Cimentación	2		5.35	1.00	10.70	
		1	5.02		1.00	5.02	
		1	4.93		1.00	4.93	
	Módulo 4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimentación	2		2.90	0.40	2.32	
		1	5.83		0.40	2.33	
		1	5.79		0.40	2.32	359.74
							359.740
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP					
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.					
	Aleta 1						
	Módulo 1						
	Cimentación	2		8.00	1.40	22.40	
		1	4.17		1.40	5.84	
		1	4.54		1.40	6.36	
		1	4.25	8.00		34.00	
	Módulo 2						
	Cimentación	2		7.35	1.30	19.11	
		1	4.18		1.30	5.43	
		1	4.27		1.30	5.55	
		1	4.20	7.35		30.87	
	Módulo 3						
	Cimentación	2		6.55	1.10	14.41	
		1	3.49		1.10	3.84	
		1	3.55		1.10	3.91	
		1	3.50	6.55		22.93	
	Módulo 4						
	Cimentación	1		5.80	1.00	5.80	
		1		2.83	1.00	2.83	
		1		2.21	1.00	2.21	
		1		1.10	1.00	1.10	
		1	2.05		1.00	2.05	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	3.13		1.00	3.13	
		1	2.59	5.80		15.02	
	Aleta 2						
	Módulo 1						
	Cimentación	2		7.05	1.50	21.15	
		1	3.52		1.50	5.28	
		1	3.44		1.50	5.16	
		1	3.50	7.05		24.68	
	Módulo 2						
	Cimentación	2		6.05	1.30	15.73	
		1	4.52		1.30	5.88	
		1	4.43		1.30	5.76	
		1	4.50	6.05		27.23	
	Módulo 3						
	Cimentación	2		4.90	1.10	10.78	
		1	4.51		1.10	4.96	
		1	4.47		1.10	4.92	
		1	4.50	4.90		22.05	
	Módulo 4						
	Cimentación	2		2.75	1.10	6.05	
		1	6.01		1.10	6.61	
		1	5.95		1.10	6.55	
		1	6.00	2.75		16.50	
	Aleta 3						
	Módulo 1						
	Cimentación	2		6.55	1.30	17.03	
		1	5.52		1.30	7.18	
		1	5.43		1.30	7.06	
		1	5.50	6.55		36.03	
	Módulo 2						
	Cimentación	2		5.25	1.10	11.55	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	4.99		1.10	5.49	
		1	5.04		1.10	5.54	
		1	5.00	5.25		26.25	
	Módulo 3						
	Cimentación	2		3.05	0.80	4.88	
		1	6.99		0.80	5.59	
		1	7.04		0.80	5.63	
		1	7.00	3.05		21.35	
	Aleta 4						
	Módulo 1						
	Cimentación	2		6.40	1.30	16.64	
		1	7.30		1.30	9.49	
		1	7.18		1.30	9.33	
		1	7.30	6.40		46.72	
	Módulo 2						
	Cimentación	2		5.90	1.10	12.98	
		1	5.02		1.10	5.52	
		1	4.92		1.10	5.41	
		1	5.00	5.90		29.50	
	Módulo 3						
	Cimentación	2		5.35	1.00	10.70	
		1	5.02		1.00	5.02	
		1	4.93		1.00	4.93	
		1	5.00	5.35		26.75	
	Módulo 4						
	Cimentación	2		2.90	0.40	2.32	
		1	5.83		0.40	2.33	
		1	5.79		0.40	2.32	
		1	5.82	2.90		16.88	756.50
							756.500

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	S/ Despieces						
	Aleta 1						
	Módulo 1						
	Cimentación	1	6,500.87			6,500.87	
	Módulo 2						
	Cimentación	1	4,726.94			4,726.94	
	Módulo 3						
	Cimentación	1	2,766.86			2,766.86	
	Módulo 4						
	Cimentación	1	1,155.15			1,155.15	
	Aleta 2						
	Módulo 1						
	Cimentación	1	3,949.51			3,949.51	
	Módulo 2						
	Cimentación	1	2,999.51			2,999.51	
	Módulo 3						
	Cimentación	1	1,675.05			1,675.05	
	Módulo 4						
	Cimentación	1	952.66			952.66	
	Aleta 3						
	Módulo 1						
		1	3,751.16			3,751.16	
	Módulo 2						
		1	1,900.98			1,900.98	
	Módulo 3						
		1	1,212.55			1,212.55	
	Aleta 4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 1						
		1	5,983.52			5,983.52	
	Módulo 2						
		1	2,577.56			2,577.56	
	Módulo 3						
		1	1,855.13			1,855.13	
	Módulo 4						
		1	579.21			579.21	42,586.66
							42,586.660
	ELEMENTO 05.1.1.3.2 ALZADO						
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Aleta 1						
	Módulo 1						
	Alzado	1	4.25		7.80	33.15	
		1		0.89	7.03	6.26	
	Módulo 2						
	Alzado	1	4.20		6.36	26.71	
		1		0.82	5.59	4.58	
	Módulo 3						
	Alzado	1	3.50		5.16	18.06	
		1		0.76	4.52	3.44	
	Módulo 4						
	Alzado	1	3.15		4.05	12.76	
		1		0.70	3.47	2.43	
	Aleta 2						
	Módulo 1						
	Alzado	1	3.50		8.51	29.79	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		0.93	7.77	7.23	
	Módulo 2						
	Alzado	1	4.50		6.69	30.11	
		1		0.83	5.62	4.66	
	Módulo 3						
	Alzado	1	4.50		4.54	20.43	
		1		0.73	3.45	2.52	
	Módulo 4						
	Alzado	1	6.00		2.03	12.18	
		1		0.40	0.60	0.24	
	Aleta 3						
	Módulo 1						
	Alzado	1	5.50		6.65	36.58	
		1		0.83	5.81	4.82	
	Módulo 2						
	Alzado	1	5.00		4.96	24.80	
		1		0.75	4.10	3.08	
	Módulo 3						
	Alzado	1	7.00		2.43	17.01	
		1		0.42	1.23	0.52	
	Aleta 4						
	Módulo 1						
	Alzado	1	7.30		6.43	46.94	
		1		0.82	5.98	4.90	
	Módulo 2						
	Alzado	1	5.00		4.97	24.85	
		1		0.75	4.33	3.25	
	Módulo 3						
	Alzado	1	5.00		3.42	17.10	
		1		0.67	2.78	1.86	
	Módulo 4						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alzado	1	5.82		1.76	10.24	
		1		0.30	1.02	0.31	410.81
							410.810
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Aleta 1						
	Módulo 1						
	Alzado	1	4.25		7.80	33.15	
	Módulo 2						
	Alzado	1	4.20		6.36	26.71	
	Módulo 3						
	Alzado	1	3.50		5.16	18.06	
	Módulo 4						
	Alzado	1	3.15		4.05	12.76	
	Aleta 2						
	Módulo 1						
	Alzado	1	3.50		8.51	29.79	
	Módulo 2						
	Alzado	1	4.50		6.69	30.11	
	Módulo 3						
	Alzado	1	4.50		4.54	20.43	
	Módulo 4						
	Alzado	1	6.00		2.03	12.18	
	Aleta 3						
	Módulo 1						
	Alzado	1	5.50		6.65	36.58	
	Módulo 2						
	Alzado	1	5.00		4.96	24.80	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 3						
	Alzado	1	7.00		2.43	17.01	
	Aleta 4						
	Módulo 1						
	Alzado	1	7.30		6.43	46.94	
	Módulo 2						
	Alzado	1	5.00		4.97	24.85	
	Módulo 3						
	Alzado	1	5.00		3.42	17.10	
	Módulo 4						
	Alzado	1	5.82		1.76	10.24	360.71
							360.710

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Aleta 1						
	Módulo 1						
	Alzado	1	4.25	0.89	7.80	29.50	
	Módulo 2						
	Alzado	1	4.20	0.82	6.36	21.90	
	Módulo 3						
	Alzado	1	3.50	0.76	5.16	13.73	
	Módulo 4						
	Alzado	1	3.15	0.70	4.05	8.93	
	Aleta 2						
	Módulo 1						
	Alzado	1	3.50	0.93	8.51	27.70	
	Módulo 2						
	Alzado	1	4.50	0.83	6.69	24.99	
	Módulo 3						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alzado	1	4.50	0.73	4.54	14.91	
	Módulo 4						
	Alzado	1	6.00	0.40	2.03	4.87	
	Aleta 3						
	Módulo 1						
	Alzado	1	5.50	0.83	6.65	30.36	
	Módulo 2						
	Alzado	1	5.00	0.75	4.96	18.60	
	Módulo 3						
	Alzado	1	7.00	0.42	2.43	7.14	
	Aleta 4						
	Módulo 1						
	Alzado	1	7.30	0.82	6.43	38.49	
	Módulo 2						
	Alzado	1	5.00	0.75	4.97	18.64	
	Módulo 3						
	Alzado	1	5.00	0.67	3.42	11.46	
	Módulo 4						
	Alzado	1	5.82	0.30	1.76	3.07	274.29
							274.290

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

	Aleta 1						
	Módulo 1						
	Alzado	1	4.25		7.80	33.15	
	Módulo 2						
	Alzado	1	4.20		6.36	26.71	
	Módulo 3						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alzado	1	3.50		5.16	18.06	
	Módulo 4						
	Alzado	1	3.15		4.05	12.76	
		1		0.70	3.47	2.43	
	Aleta 2						
	Módulo 1						
	Alzado	1	3.50		8.51	29.79	
	Módulo 2						
	Alzado	1	4.50		6.69	30.11	
	Módulo 3						
	Alzado	1	4.50		4.54	20.43	
	Módulo 4						
	Alzado	1	6.00		2.03	12.18	
		1		0.40	0.60	0.24	
	Aleta 3						
	Módulo 1						
	Alzado	1	5.50		6.65	36.58	
	Módulo 2						
	Alzado	1	5.00		4.96	24.80	
	Módulo 3						
	Alzado	1	7.00		2.43	17.01	
		1		0.42	1.23	0.52	
	Aleta 4						
	Módulo 1						
	Alzado	1	7.30		6.43	46.94	
	Módulo 2						
	Alzado	1	5.00		4.97	24.85	
	Módulo 3						
	Alzado	1	5.00		3.42	17.10	
	Módulo 4						
	Alzado	1	5.82		1.76	10.24	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		0.30	1.02	0.31	364.21
							364.210

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

Aleta 1					
Módulo 1					
	1	4.25			4.25
Módulo 2					
	1	4.20			4.20
Módulo 3					
	1	3.50			3.50
Módulo 4					
	1	3.15			3.15
	1	5.00			5.00
Aleta 2					
Módulo 1					
	1	3.50			3.50
Módulo 2					
	1	4.50			4.50
Módulo 3					
	1	4.50			4.50
Módulo 4					
	1	6.00			6.00
	1	5.00			5.00
Aleta 3					
Módulo 1					
	1	5.50			5.50

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 2						
		1	5.00			5.00	
	Módulo 3						
		1	7.00			7.00	
		1	5.00			5.00	
	Aleta 4						
	Módulo 1						
		1	7.30			7.30	
	Módulo 2						
		1	5.00			5.00	
	Módulo 3						
		1	5.00			5.00	
	Módulo 4						
		1	5.82			5.82	
		1	5.00			5.00	94.22
							94.220

411.0014N1 m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS

LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO

	Aleta 1						
	Módulo 1						
	Alzado	1	4.25		5.95	25.29	
	Módulo 2						
	Alzado	1	4.20		4.51	18.94	
	Módulo 3						
	Alzado	1	3.50		3.19	11.17	
	Módulo 4						
	Alzado	1	3.15		2.03	6.39	
		1		0.70	3.47	2.43	
	Aleta 2						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 1						
	Alzado	1	3.50		7.49	26.22	
	Módulo 2						
	Alzado	1	4.50		5.79	26.06	
	Módulo 3						
	Alzado	1	4.50		3.79	17.06	
	Módulo 4						
	Alzado	1	6.00		1.44	8.64	
		1		0.40	0.60	0.24	
	Aleta 3						
	Módulo 1						
	Alzado	1	5.50		5.73	31.52	
	Módulo 2						
	Alzado	1	5.00		3.82	19.10	
	Módulo 3						
	Alzado	1	7.00		1.48	10.36	
		1		0.42	1.23	0.52	
	Aleta 4						
	Módulo 1						
	Alzado	1	7.30		5.66	41.32	
	Módulo 2						
	Alzado	1	5.00		4.24	21.20	
	Módulo 3						
	Alzado	1	5.00		2.69	13.45	
	Módulo 4						
	Alzado	1	5.82		1.01	5.88	
		1		0.30	1.02	0.31	286.10
							286.100

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM- BRE RECOCIDO Y SEPARADORES.						
	S/ Despieces						
	Aleta 1						
	Módulo 1						
	Alzado	1	3,041.61			3,041.61	
	Junta de dilatación	1	75.87			75.87	
	Módulo 2						
	Alzado	1	1,232.96			1,232.96	
	Junta de dilatación	1	39.82			39.82	
	Módulo 3						
	Alzado	1	810.50			810.50	
	Junta de dilatación	1	32.26			32.26	
	Módulo 4						
	Alzado	1	491.63			491.63	
	Junta de dilatación	1	14.44			14.44	
	Aleta 2						
	Módulo 1						
	Alzado	1	1,465.06			1,465.06	
	Junta de dilatación	1	53.47			53.47	
	Módulo 2						
	Alzado	1	1,045.98			1,045.98	
	Junta de dilatación	1	42.00			42.00	
	Módulo 3						
	Alzado	1	812.76			812.76	
	Junta de dilatación	1	28.35			28.35	
	Módulo 4						
	Alzado	1	450.42			450.42	
	Junta de dilatación	1	10.74			10.74	
	Aleta 3						
	Módulo 1						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Alzado	1	1,339.72			1,339.72	
	Junta de dilatación	1	41.71			41.71	
	Módulo 2						
	Alzado	1	960.33			960.33	
	Junta de dilatación	1	31.00			31.00	
	Módulo 3						
	Alzado	1	614.38			614.38	
	Junta de dilatación	1	11.31			11.31	
	Aleta 4						
	Módulo 1						
	Alzado	1	1,744.80			1,744.80	
	Junta de dilatación	1	40.32			40.32	
	Módulo 2						
	Alzado	1	1,257.13			1,257.13	
	Junta de dilatación	1	31.09			31.09	
	Módulo 3						
	Alzado	1	677.87			677.87	
	Junta de dilatación	1	22.15			22.15	
	Módulo 4						
	Alzado	1	240.14			240.14	
	Junta de dilatación	1	7.74			7.74	16,667.56
							16,667.560
691.0010N1	m JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.						
	Aleta 1						
	Módulo 1						
		1		8.580		8.580	
	Módulo 2						
		1		7.130		7.130	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Módulo 3						
		1			5.590	5.590	
	Módulo 4						
		1			4.520	4.520	
	Aleta 2						
	Módulo 1						
		1			9.250	9.250	
	Módulo 2						
		1			7.770	7.770	
	Módulo 3						
		1			5.620	5.620	
	Módulo 4						
		1			3.450	3.450	
	Aleta 3						
	Módulo 1						
		1			7.490	7.490	
	Módulo 2						
		1			5.810	5.810	
	Módulo 3						
		1			4.100	4.100	
	Aleta 4						
	Módulo 1						
		1			7.490	7.490	
	Módulo 2						
		1			5.980	5.980	
	Módulo 3						
		1			4.330	4.330	
	Módulo 4						
		1			2.780	2.780	89.890
							89.890

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 05.1.2 PILAS						
	SUBAPARTADO 05.1.2.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Pila 1						
		1	6.12	6.12	1.83	68.54	
	Pila 2						
		1	6.12	6.12	1.83	68.54	
	Pila 3						
		1	6.42	6.42	1.93	79.55	
	Pila 4						
		1	6.42	6.42	1.93	79.55	
	Pila 5						
		1	7.59	7.59	2.18	125.59	
	Pila 6						
		1	7.59	7.59	2.18	125.59	
	Pila 7						
		1	7.59	7.59	2.18	125.59	
	Pila 8						
		1	7.59	7.59	2.18	125.59	
	Pila 9						
		1	7.59	7.59	2.18	125.59	
	Pila 10						
		1	7.59	7.59	2.18	125.59	
	Pila 11						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	6.42	6.42	1.93	79.55	
	Pila 12						
		1	6.42	6.42	1.93	79.55	
	Pila 13						
		1	6.12	6.12	1.83	68.54	
	Pila 14						
		1	6.12	6.12	1.83	68.54	1,345.90
							1,345.900
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Pila 1						
		1	6.12	6.12	1.83	68.54	
	A descontar	-1	4.20	4.20	0.10	-1.76	
		-1	4.00	4.00	1.00	-16.00	
		-1	0.70	1.00	0.73	-0.51	
	Pila 2						
		1	6.12	6.12	1.83	68.54	
	A descontar	-1	4.20	4.20	0.10	-1.76	
		-1	4.00	4.00	1.00	-16.00	
		-1	0.70	1.00	0.73	-0.51	
	Pila 3						
		1	6.42	6.42	1.93	79.55	
	A descontar	-1	4.45	4.45	0.10	-1.98	
		-1	4.25	4.25	1.10	-19.87	
		-1	0.70	1.00	0.73	-0.51	
	Pila 4						
		1	6.42	6.42	1.93	79.55	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A descontar	-1	4.45	4.45	0.10	-1.98	
		-1	4.25	4.25	1.10	-19.87	
		-1	0.70	1.00	0.73	-0.51	
	Pila 5						
		1	7.59	7.59	2.18	125.59	
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 6						
		1	7.59	7.59	2.18	125.59	
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 7						
		1	7.59	7.59	2.18	125.59	
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 8						
		1	7.59	7.59	2.18	125.59	
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 9						
		1	7.59	7.59	2.18	125.59	
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 10						
		1	7.59	7.59	2.18	125.59	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A descontar	-1	5.50	5.50	0.10	-3.03	
		-1	5.30	5.30	1.35	-37.92	
		-1	0.70	1.00	0.73	-0.51	
	Pila 11						
		1	6.42	6.42	1.93	79.55	
	A descontar	-1	4.45	4.45	0.10	-1.98	
		-1	4.25	4.25	1.10	-19.87	
		-1	0.70	1.00	0.73	-0.51	
	Pila 12						
		1	6.42	6.42	1.93	79.55	
	A descontar	-1	4.42	4.42	0.10	-1.95	
		-1	4.25	4.25	1.10	-19.87	
		-1	0.70	1.00	0.73	-0.51	
	Pila 13						
		1	6.12	6.12	1.83	68.54	
	A descontar	-1	4.20	4.20	0.10	-1.76	
		-1	4.00	4.00	1.00	-16.00	
		-1	0.70	1.00	0.73	-0.51	
	Pila 14						
		1	6.12	6.12	1.83	68.54	
	A descontar	-1	4.20	4.20	0.10	-1.76	
		-1	4.00	4.00	1.00	-16.00	
		-1	0.70	1.00	0.73	-0.51	934.65
							934.650

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Pila 1

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
	Pila 2						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
	Pila 3						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	
	Pila 4						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	
	Pila 5						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 6						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 7						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 8						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 9						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 10						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
	Pila 11						
	Cimentación	2	4.25		1.10	9.35	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2		4.25	1.10	9.35	
	Pila 12						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	
	Pila 13						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
	Pila 14						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	310.52
							310.520

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	Pila 1						
	Cimentación	1	4.20	4.20	0.10	1.76	
	Pila 2						
	Cimentación	1	4.20	4.20	0.10	1.76	
	Pila 3						
	Cimentación	1	4.45	4.45	0.10	1.98	
	Pila 4						
	Cimentación	1	4.45	4.45	0.10	1.98	
	Pila 5						
	Cimentación	1	5.50	5.50	0.10	3.03	
	Pila 6						
	Cimentación	1	5.50	5.50	0.10	3.03	
	Pila 7						
	Cimentación	1	5.50	5.50	0.10	3.03	
	Pila 8						
	Cimentación	1	5.50	5.50	0.10	3.03	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila 9						
	Cimentación	1	5.50	5.50	0.10	3.03	
	Pila 10						
	Cimentación	1	5.50	5.50	0.10	3.03	
	Pila 11						
	Cimentación	1	4.45	4.45	0.10	1.98	
	Pila 12						
	Cimentación	1	4.45	4.45	0.10	1.98	
	Pila 13						
	Cimentación	1	4.20	4.20	0.10	1.76	
	Pila 14						
	Cimentación	1	4.20	4.20	0.10	1.76	33.14
							33.140

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	Pila 1						
	Cimentación	1	4.00	4.00	1.00	16.00	
	Pila 2						
	Cimentación	1	4.00	4.00	1.00	16.00	
	Pila 3						
	Cimentación	1	4.25	4.25	1.10	19.87	
	Pila 4						
	Cimentación	1	4.25	4.25	1.10	19.87	
	Pila 5						
	Cimentación	1	5.30	5.30	1.35	37.92	
	Pila 6						
	Cimentación	1	5.30	5.30	1.35	37.92	
	Pila 7						
	Cimentación	1	5.30	5.30	1.35	37.92	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila 8						
	Cimentación	1	5.30	5.30	1.35	37.92	
	Pila 9						
	Cimentación	1	5.30	5.30	1.35	37.92	
	Pila 10						
	Cimentación	1	5.30	5.30	1.35	37.92	
	Pila 11						
	Cimentación	1	4.25	4.25	1.10	19.87	
	Pila 12						
	Cimentación	1	4.25	4.25	1.10	19.87	
	Pila 13						
	Cimentación	1	4.00	4.00	1.00	16.00	
	Pila 14						
	Cimentación	1	4.00	4.00	1.00	16.00	371.00
							371.000

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

	Pila 1						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
		1	4.00	4.00		16.00	
	Pila 2						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
		1	4.00	4.00		16.00	
	Pila 3						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	4.25	4.25		18.06	
	Pila 4						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	
		1	4.25	4.25		18.06	
	Pila 5						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 6						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 7						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 8						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 9						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 10						
	Cimentación	2	5.30		1.35	14.31	
		2		5.30	1.35	14.31	
		1	5.30	5.30		28.09	
	Pila 11						
	Cimentación	2	4.25		1.10	9.35	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2		4.25	1.10	9.35	
		1	4.25	4.25		18.06	
	Pila 12						
	Cimentación	2	4.25		1.10	9.35	
		2		4.25	1.10	9.35	
		1	4.25	1.25		5.31	
	Pila 13						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
		1	4.00	4.00		16.00	
	Pila 14						
	Cimentación	2	4.00		1.00	8.00	
		2		4.00	1.00	8.00	
		1	4.00	4.00		16.00	602.55
							602.550

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

S/ Despieces					
Pila 1					
Cimentación	1	2,258.63		2,258.63	
Pila 2					
Cimentación	1	2,258.63		2,258.63	
Pila 3					
Cimentación	1	2,659.29		2,659.29	
Pila 4					
Cimentación	1	2,659.29		2,659.29	
Pila 5					

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cimentación	1	5,273.72			5,273.72	
	Pila 6						
	Cimentación	1	5,273.72			5,273.72	
	Pila 7						
	Cimentación	1	5,273.72			5,273.72	
	Pila 8						
	Cimentación	1	5,273.72			5,273.72	
	Pila 9						
	Cimentación	1	5,273.72			5,273.72	
	Pila 10						
	Cimentación	1	5,273.72			5,273.72	
	Pila 11						
	Cimentación	1	2,765.47			2,765.47	
	Pila 12						
	Cimentación	1	2,765.47			2,765.47	
	Pila 13						
	Cimentación	1	2,258.63			2,258.63	
	Pila 14						
	Cimentación	1	2,258.63			2,258.63	51,526.36
							51,526.360

SUBAPARTADO 05.1.2.2 ALZADO

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Pila 1						
Fustes	2	1.00		7.02	14.04	
	2		0.70	7.02	9.83	
Pila 2						
Fustes	2	1.00		7.04	14.08	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2		0.70	7.04	9.86	
	Pila 3						
	Fustes	2	1.00		7.03	14.06	
		2		0.70	7.03	9.84	
	Pila 4						
	Fustes	2	1.00		6.97	13.94	
		2		0.70	6.97	9.76	
	Pila 5						
	Fustes	2	1.00		6.43	12.86	
		2		0.70	6.43	9.00	
	Pila 6						
	Fustes	2	1.00		6.36	12.72	
		2		0.70	6.36	8.90	
	Pila 7						
	Fustes	2	1.00		6.26	12.52	
		2		0.70	6.26	8.76	
	Pila 8						
	Fustes	2	1.00		6.15	12.30	
		2		0.70	6.15	8.61	
	Pila 9						
	Fustes	2	1.00		6.02	12.04	
		2		0.70	6.02	8.43	
	Pila 10						
	Fustes	2	1.00		5.86	11.72	
		2		0.70	5.86	8.20	
	Pila 11						
	Fustes	2	1.00		6.30	12.60	
		2		0.70	6.30	8.82	
	Pila 12						
	Fustes	2	1.00		6.24	12.48	
		2		0.70	6.24	8.74	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila 13						
	Fustes	2	1.00		6.13	12.26	
		2		0.70	6.13	8.58	
	Pila 14						
	Fustes	2	1.00		6.00	12.00	
		2		0.70	6.00	8.40	305.35
							305.350

610.0130 m³ HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, Llosas, MUROS Y MARCOS

HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Pila 1						
	Fustes	1	1.00	0.70	7.02	4.91	
	Pila 2						
	Fustes	1	1.00	0.70	7.04	4.93	
	Pila 3						
	Fustes	1	1.00	0.70	7.03	4.92	
	Pila 4						
	Fustes	1	1.00	0.70	6.97	4.88	
	Pila 5						
	Fustes	1	1.00	0.70	6.43	4.50	
	Pila 6						
	Fustes	1	1.00	0.70	6.36	4.45	
	Pila 7						
	Fustes	1	1.00	0.70	6.26	4.38	
	Pila 8						
	Fustes	1	1.00	0.70	6.15	4.31	
	Pila 9						
	Fustes	1	1.00	0.70	6.02	4.21	
	Pila 10						
	Fustes	1	1.00	0.70	5.86	4.10	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila 11						
	Fustes	1	1.00	0.70	6.30	4.41	
	Pila 12						
	Fustes	1	1.00	0.70	6.24	4.37	
	Pila 13						
	Fustes	1	1.00	0.70	6.13	4.29	
	Pila 14						
	Fustes	1	1.00	0.70	6.00	4.20	62.86
							62.860

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

S/ Despieces				
Pila 1				
Fustes	1	1,636.57		1,636.57
Pila 2				
Fustes	1	1,639.60		1,639.60
Pila 3				
Fustes	1	1,971.02		1,971.02
Pila 4				
Fustes	1	1,953.27		1,953.27
Pila 5				
Fustes	1	1,597.39		1,597.39
Pila 6				
Fustes	1	1,580.39		1,580.39
Pila 7				
Fustes	1	1,565.22		1,565.22
Pila 8				

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Fustes	1	1,542.16			1,542.16	
	Pila 9						
	Fustes	1	1,516.06			1,516.06	
	Pila 10						
	Fustes	1	1,485.40			1,485.40	
	Pila 11						
	Fustes	1	2,004.21			2,004.21	
	Pila 12						
	Fustes	1	1,991.32			1,991.32	
	Pila 13						
	Fustes	1	1,463.28			1,463.28	
	Pila 14						
	Fustes	1	1,347.18			1,347.18	23,293.07
							23,293.070

APARTADO 05.1.3 LOSA SUPERIOR

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Pérgola 1.8						
Losa. Laterales	1	81.74		1.20	98.09	
	1	70.81		1.20	84.97	
Losa. Junta de dilatación	1		20.50	1.20	24.60	
	1		20.27	1.20	24.32	231.98
						231.980

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pérgola 1.8						
	Losa	1		0.80	1.20	0.96	
		1	2.11		1.20	2.53	
		1		2.31	1.20	2.77	
		1		3.18	1.20	3.82	
		1		3.19	1.20	3.83	
		1		3.16	1.20	3.79	
		1		2.93	1.20	3.52	
		1		3.29	1.20	3.95	
		1		3.04	1.20	3.65	
		1		0.64	1.20	0.77	
		1		18.17	1.20	21.80	
		1		0.80	1.20	0.96	
		1	1.42		1.20	1.70	
		1		0.34	1.20	0.41	
		1		2.80	1.20	3.36	
		1		2.85	1.20	3.42	
		1		2.90	1.20	3.48	
		1		2.95	1.20	3.54	
		1		3.00	1.20	3.60	
		1		3.05	1.20	3.66	
		1		17.65	1.20	21.18	
	Cartela Laterales Hastiales	1	81.74	0.53		43.32	
		1	70.81	0.53		37.53	
	Nervios	1	17.83		1.20	21.40	
		1	16.21		1.20	19.45	
		1	17.83	1.30		23.18	
		1	14.75		1.20	17.70	
		1	13.60		1.20	16.32	
		1	15.24	1.30		19.81	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	12.11		1.20	14.53	
		1	10.89		1.20	13.07	
		1	12.57	1.30		16.34	
		1	9.31		1.20	11.17	
		1	8.00		1.20	9.60	
		1	9.74	1.30		12.66	
		1	6.34		1.20	7.61	
		1	4.94		1.20	5.93	
		1	6.73	1.30		8.75	
		1	3.19		1.20	3.83	
		1	1.69		1.20	2.03	
		1	3.52	1.30		4.58	
		1			0.47	0.47	
		1			1.17	1.17	
		1	0.30		1.20	0.36	
		1	1.71		1.20	2.05	
		1	3.05		1.20	3.66	
		1	3.53	1.30		4.59	
		1	4.50		1.20	5.40	
		1	5.76		1.20	6.91	
		1	6.22	1.30		8.09	
		1	7.17		1.20	8.60	
		1	8.43		1.20	10.12	
		1	8.88	1.30		11.54	
		1	9.81		1.20	11.77	
		1	11.05		1.20	13.26	
		1	11.50	1.30		14.95	
		1	12.39		1.20	14.87	
		1	13.62		1.20	16.34	
		1	14.09	1.30		18.32	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	14.94		1.20	17.93	
		1	16.98		1.20	20.38	
		1	16.62	1.30		21.61	
	Riostra sobre Pilas	5	2.72		1.20	16.32	
		1	2.50		1.20	3.00	
		1	32.47		1.20	38.96	
		6	2.69		1.20	19.37	
		1	33.07		1.20	39.68	
	Cartela sobre pilas	2	1.96	3.45		13.52	
		1	38.10	2.61		99.44	
		1	38.10	2.58		98.30	
		1	36.20	0.90		32.58	
	Losa. Tabla Inferior	1	2,715.08			2,715.08	
	A descontar	-1	68.01			-68.01	
		-1	56.94			-56.94	
		-1	45.41			-45.41	
		-1	33.29			-33.29	
		-1	20.60			-20.60	
		-1	7.02			-7.02	
		-1	59.26			-59.26	
		-1	49.57			-49.57	
		-1	39.62			-39.62	
		-1	29.38			-29.38	
		-1	18.88			-18.88	
		-1	8.12			-8.12	
		-1	38.10	2.61		-99.44	
		-1	38.10	2.58		-98.30	
		-1	36.20	0.90		-32.58	
	Murete. Barrera	1	61.54		0.71	43.69	
		1	62.30		0.71	44.23	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1		0.60	1.30	0.78	
		1		0.60	0.11	0.07	3,116.50
							3,116.500

680.0040 m² ENCOFRADO VISTO CURVO

ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Pérgola 1.8						
	Nervios	2	0.56		1.20	1.34	
		1	1.02		1.20	1.22	
		11	0.78		1.20	10.30	
		1	1.02		1.20	1.22	
		1	0.63		1.20	0.76	
		1	1.03		1.20	1.24	
		1	0.66		1.20	0.79	
		1	1.05		1.20	1.26	
		1	0.74		1.20	0.89	
		1	1.07		1.20	1.28	
		1	0.50		1.20	0.60	
		1	1.08		1.20	1.30	
		1	1.28		1.20	1.54	
		1	0.72		1.20	0.86	
		11	0.79		1.20	10.43	
		1	0.53		1.20	0.64	
		1	1.04		1.20	1.25	
		1	0.53		1.20	0.64	
		1	1.03		1.20	1.24	
		1	0.53		1.20	0.64	
		1	1.03		1.20	1.24	
		1	0.54		1.20	0.65	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	1.03		1.20	1.24	
		1	0.54		1.20	0.65	
		1	1.03		1.20	1.24	
		1	0.54		1.20	0.65	
		1	1.03		1.20	1.24	46.35
							46.350

682.0010 m³ ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO

ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.

	Pérgola 1.8						
	Voladizo Lateral Izquierdo	1	1.94		0.50	0.97	
		1	2.63		0.50	1.32	
		1	3.33		0.50	1.67	
		1	4.47		0.50	2.24	
		1	5.21		0.50	2.61	
		1	5.96		0.50	2.98	
		1	7.16		0.50	3.58	
		1	7.94		0.50	3.97	
		1	8.74		0.50	4.37	
		1	10.01		0.50	5.01	
		1	10.84		0.50	5.42	
		1	11.69		0.50	5.85	
		1	13.04		0.50	6.52	
		1	13.92		0.50	6.96	
		1	14.82		0.50	7.41	
		1	16.27		0.50	8.14	
	Vano Central Izquierdo	1	17.38		0.50	8.69	
		1	17.34		0.50	8.67	
		1	17.29		0.50	8.65	
		1	17.25		0.50	8.63	
		1	17.20		0.50	8.60	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	17.16		0.50	8.58	
		1	17.11		0.50	8.56	
		1	17.07		0.50	8.54	
		1	17.02		0.50	8.51	
		1	16.97		0.50	8.49	
		1	16.92		0.50	8.46	
		1	16.87		0.50	8.44	
		1	16.82		0.50	8.41	
		1	16.77		0.50	8.39	
		1	16.72		0.50	8.36	
		1	16.67		0.50	8.34	
		1	16.63		0.50	8.32	
		1	16.58		0.50	8.29	
		1	16.54		0.50	8.27	
		1	16.49		0.50	8.25	
		1	16.44		0.50	8.22	
		1	16.40		0.50	8.20	
		1	16.35		0.50	8.18	
		1	16.30		0.50	8.15	
		1	16.25		0.50	8.13	
		1	16.21		0.50	8.11	
		1	16.16		0.50	8.08	
	Vano Central Derecho	15	17.60		0.50	132.00	
		1	17.58		0.50	8.79	
		1	17.55		0.50	8.78	
		1	17.53		0.50	8.77	
		1	17.50		0.50	8.75	
		1	17.48		0.50	8.74	
		1	17.45		0.50	8.73	
		1	17.43		0.50	8.72	
		1	17.40		0.50	8.70	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	17.36		0.50	8.68	
		1	17.33		0.50	8.67	
		1	17.29		0.50	8.65	
		1	17.26		0.50	8.63	
	Voladizo Lateral Derecho	1	15.34		0.50	7.67	
		1	14.06		0.50	7.03	
		1	13.26		0.50	6.63	
		1	12.45		0.50	6.23	
		1	11.20		0.50	5.60	
		1	10.41		0.50	5.21	
		1	9.61		0.50	4.81	
		1	8.37		0.50	4.19	
		1	7.59		0.50	3.80	
		1	6.80		0.50	3.40	
		1	5.59		0.50	2.80	
		1	4.81		0.50	2.41	
		1	4.05		0.50	2.03	
		1	2.85		0.50	1.43	
		1	2.09		0.50	1.05	
		1	1.34		0.50	0.67	597.11
							597.110

610.0150 m³ HORMIGÓN PARA PRETENSAR C40/50

HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.

	Pérgola 1.8						
	Losa	1	2,246.94		1.20	2,696.33	
	Cartelas hastiales	1	81.74	0.25	0.20	4.09	
		1	70.81	0.25	0.20	3.54	
	A descontar aligeramientos						
	Voladizo Lateral Izquierdo	-1	1.94		0.50	-0.97	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-1	2.63		0.50	-1.32	
		-1	3.33		0.50	-1.67	
		-1	4.47		0.50	-2.24	
		-1	5.21		0.50	-2.61	
		-1	5.96		0.50	-2.98	
		-1	7.16		0.50	-3.58	
		-1	7.94		0.50	-3.97	
		-1	8.74		0.50	-4.37	
		-1	10.01		0.50	-5.01	
		-1	10.84		0.50	-5.42	
		-1	11.69		0.50	-5.85	
		-1	13.04		0.50	-6.52	
		-1	13.92		0.50	-6.96	
		-1	14.82		0.50	-7.41	
		-1	16.27		0.50	-8.14	
	Vano Central Izquierdo	-1	17.38		0.50	-8.69	
		-1	17.34		0.50	-8.67	
		-1	17.29		0.50	-8.65	
		-1	17.25		0.50	-8.63	
		-1	17.20		0.50	-8.60	
		-1	17.16		0.50	-8.58	
		-1	17.11		0.50	-8.56	
		-1	17.07		0.50	-8.54	
		-1	17.02		0.50	-8.51	
		-1	16.97		0.50	-8.49	
		-1	16.92		0.50	-8.46	
		-1	16.87		0.50	-8.44	
		-1	16.82		0.50	-8.41	
		-1	16.77		0.50	-8.39	
		-1	16.72		0.50	-8.36	
		-1	16.67		0.50	-8.34	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-1	16.63		0.50	-8.32	
		-1	16.58		0.50	-8.29	
		-1	16.54		0.50	-8.27	
		-1	16.49		0.50	-8.25	
		-1	16.44		0.50	-8.22	
		-1	16.40		0.50	-8.20	
		-1	16.35		0.50	-8.18	
		-1	16.30		0.50	-8.15	
		-1	16.25		0.50	-8.13	
		-1	16.21		0.50	-8.11	
		-1	16.16		0.50	-8.08	
	Vano Central Derecho	-15	17.60		0.50	-132.00	
		-1	17.58		0.50	-8.79	
		-1	17.55		0.50	-8.78	
		-1	17.53		0.50	-8.77	
		-1	17.50		0.50	-8.75	
		-1	17.48		0.50	-8.74	
		-1	17.45		0.50	-8.73	
		-1	17.43		0.50	-8.72	
		-1	17.40		0.50	-8.70	
		-1	17.36		0.50	-8.68	
		-1	17.33		0.50	-8.67	
		-1	17.29		0.50	-8.65	
		-1	17.26		0.50	-8.63	
	Voladizo Lateral Derecho	-1	15.34		0.50	-7.67	
		-1	14.06		0.50	-7.03	
		-1	13.26		0.50	-6.63	
		-1	12.45		0.50	-6.23	
		-1	11.20		0.50	-5.60	
		-1	10.41		0.50	-5.21	
		-1	9.61		0.50	-4.81	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		-1	8.37		0.50	-4.19	
		-1	7.59		0.50	-3.80	
		-1	6.80		0.50	-3.40	
		-1	5.59		0.50	-2.80	
		-1	4.81		0.50	-2.41	
		-1	4.05		0.50	-2.03	
		-1	2.85		0.50	-1.43	
		-1	2.09		0.50	-1.05	
		-1	1.34		0.50	-0.67	
	Nervios	1	17.83	1.30	1.20	27.81	
		1	15.24	1.30	1.20	23.77	
		1	12.57	1.30	1.20	19.61	
		1	9.74	1.30	1.20	15.19	
		1	6.73	1.30	1.20	10.50	
		1	3.52	1.30	1.20	5.49	
		1		0.47	1.20	0.56	
		1		1.17	1.20	1.40	
		1	3.53	1.30	1.20	5.51	
		1	6.22	1.30	1.20	9.70	
		1	8.88	1.30	1.20	13.85	
		1	11.50	1.30	1.20	17.94	
		1	14.09	1.30	1.20	21.98	
		1	16.62	1.30	1.20	25.93	
	Riostra sobre pilas	1	106.00	1.50	1.20	190.80	
	Cartela sobre pilas	1	38.10	3.45	0.50	65.72	2,562.61
							2,562.610

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/ Despieces						
	Pérgola 1.8						
	Losa. Tablero	1	81,094.77			81,094.77	
		1	59,893.28			59,893.28	
		1	22,243.99			22,243.99	
		1	20,909.80			20,909.80	
		1	38,156.54			38,156.54	
		1	16,450.52			16,450.52	
	Zunchos						
	Zuncho ZL1	1	8,992.97			8,992.97	
	Zuncho ZL2	1	7,764.98			7,764.98	
	Nervios. Zona ZL1						
	Nervio 1	1	2,798.64			2,798.64	
	Nervio 2	1	2,565.01			2,565.01	
	Nervio 3	1	4,041.12			4,041.12	
	Nervio 4	1	3,950.02			3,950.02	
	Nervio 5	1	3,446.65			3,446.65	
	Nervio 6	1	2,939.38			2,939.38	
	Nervio 7	1	2,388.37			2,388.37	
	Nervios. Zona ZL2						
	Nervio 1	1	2,929.17			2,929.17	
	Nervio 2	1	2,327.52			2,327.52	
	Nervio 3	1	3,458.40			3,458.40	
	Nervio 4	1	3,662.90			3,662.90	
	Nervio 5	1	3,079.43			3,079.43	
	Nervio 6	1	2,669.88			2,669.88	
	Nervio 7	1	2,410.50			2,410.50	
	Riostras						
	Hastial 1	1	8,882.20			8,882.20	
	Hastial 2	1	7,881.62			7,881.62	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilas. Zona ZL1	1	13,997.43			13,997.43	
	Pilas. Zona ZL2	1	13,997.43			13,997.43	
	Pilas Zona Central	1	13,217.32			13,217.32	
	Murete Anclaje Barrera	1	5,013.16			5,013.16	
	Introducción Pretensado						
	Hastial 1. Zona Central	1	3,986.42			3,986.42	
	Hastial 2. Zona Central	1	3,812.53			3,812.53	
	Hastial 1. ZL1	1	2,734.16			2,734.16	
	Hastial 2. ZL2	1	2,798.66			2,798.66	
	Riostra Pila. ZL1	1	1,605.65			1,605.65	
	Riostra PIla. ZL2	1	1,899.37			1,899.37	
	Zuncho de Borde. ZL1	1	1,035.64			1,035.64	
	Zuncho de Borde. ZL2	1	1,035.64			1,035.64	380,071.07
							380,071.070

601.0010 kg ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL

ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.

Pérgola 1.8					
ZL1					
Nervio 1	2	21.23	20.94	889.11	
Nervio 2	2	21.07	20.94	882.41	
Nervio 3					
Cable 1 y 2	2	20.98	20.94	878.64	
Cable 3 y 4	2	20.93	20.94	876.55	
Nervio 4					
Cable 1 y 2	2	20.82	20.94	871.94	
Cable 3 y 4	2	20.78	20.94	870.27	
Nervio 5					

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cable 1 y 2	2	20.66		20.94	865.24	
	Cable 3 y 4	2	20.62		20.94	863.57	
	Nervio 6						
	Cable 1 y 2	2	20.50		20.94	858.54	
	Cable 3 y 4	2	20.45		20.94	856.45	
	Nervio 7						
	Cable 1 y 2	2	20.34		20.94	851.84	
	Cable 3 y 4	2	20.29		20.94	849.75	
	Familia F						
	F1	1	5.21		20.94	109.10	
	F2	1	5.92		20.94	123.96	
	F3	1	7.81		20.94	163.54	
	F4	1	8.57		20.94	179.46	
	F5	1	10.56		20.94	221.13	
	F6	1	11.36		20.94	237.88	
	F7	1	13.48		20.94	282.27	
	F8	1	14.33		20.94	300.07	
	F9	1	16.58		20.94	347.19	
	F10	1	17.48		20.94	366.03	
	Familia G						
		2	20.25		20.94	848.07	
	ZL2						
	Nervio 1	2	19.18		20.94	803.26	
	Nervio 2	2	19.31		20.94	808.70	
	Nervio 3						
	Cable 1 y 2	2	19.48		20.94	815.82	
	Cable 3 y 4	2	19.43		20.94	813.73	
	Nervio 4						
	Cable 1 y 2	2	19.60		20.94	820.85	
	Cable 3	1	19.57		20.94	409.80	
	Cable 4 y 5	2	19.56		20.94	819.17	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nervio 5						
	Cable 1 y 2	2	19.73		20.94	826.29	
	Cable 3	1	19.69		20.94	412.31	
	Cable 4 y 5	2	19.68		20.94	824.20	
	Nervio 6						
	Cable 1 y 2	2	19.85		20.94	831.32	
	Cable 3	1	19.82		20.94	415.03	
	Cable 4 y 5	2	19.80		20.94	829.22	
	Nervio 7						
	Cable 1 y 2	2	19.94		20.94	835.09	
	Cable 3	1	19.90		20.94	416.71	
	Cable 4 y 5	2	19.89		20.94	832.99	
	Familia F						
	F1	1	4.67		20.94	97.79	
	F2	1	5.43		20.94	113.70	
	F3	1	7.42		20.94	155.37	
	F4	1	8.19		20.94	171.50	
	F5	1	10.19		20.94	213.38	
	F6	1	10.98		20.94	229.92	
	F7	1	13.02		20.94	272.64	
	F8	1	13.81		20.94	289.18	
	F9	1	15.88		20.94	332.53	
	F10	1	16.69		20.94	349.49	
	Familia G						
		2	19.99		20.94	837.18	
	Zona Central						
	Familia A						
	A1	2	39.41		20.94	1,650.49	
	A2	2	37.74		20.94	1,580.55	
	Familia B						
	B1						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Cable 1	1	39.40		20.94	825.04	
	Cable 2 y 3	2	39.34		20.94	1,647.56	
	B2						
	Cable 1	1	37.89		20.94	793.42	
	Cable 2 y 3	2	37.83		20.94	1,584.32	
	Familia C						
	C1						
	Cables 1 y 2	2	39.16		20.94	1,640.02	
	Cables 3 y 4	2	39.10		20.94	1,637.51	
	C2						
	Cables 1 y 2	2	38.92		20.94	1,629.97	
	Cables 3 y 4	2	38.86		20.94	1,627.46	
	C3						
	Cables 1 y 2	2	38.64		20.94	1,618.24	
	Cables 3 y 4	2	38.59		20.94	1,616.15	
	C4						
	Cables 1 y 2	2	38.29		20.94	1,603.59	
	Cables 3 y 4	2	38.23		20.94	1,601.07	
	Familia D						
	D1	2	39.31		20.94	1,646.30	
	D2	2	39.17		20.94	1,640.44	
	D3	2	39.08		20.94	1,636.67	
	D4	2	38.93		20.94	1,630.39	
	D5	2	38.83		20.94	1,626.20	
	D6	2	38.68		20.94	1,619.92	
	D7	2	38.54		20.94	1,614.06	
	D8	2	38.33		20.94	1,605.26	
	D9	2	38.18		20.94	1,598.98	
	D10	2	37.93		20.94	1,588.51	
	Familia E						
	E1	1	39.26		20.94	822.10	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	E2	1	39.22		20.94	821.27	
	E3	1	39.03		20.94	817.29	
	E4	1	38.98		20.94	816.24	
	E5	1	38.79		20.94	812.26	
	E6	1	38.74		20.94	811.22	
	E7	1	38.47		20.94	805.56	
	E8	1	38.40		20.94	804.10	
	E9	1	38.10		20.94	797.81	
	E10	1	38.01		20.94	795.93	73,536.08
							73,536.080

681.0010 m³ CIMBRA CUAJADA

CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.

	Pérgola 1.8						
		1	348.18		5.80	2,019.44	
		1	2,246.94		5.80	13,032.25	
		1	315.59		5.80	1,830.42	16,882.11
							16,882.110

691.0010N1 m JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO

JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.

	Pérgola 1.8						
		1	20.490			20.490	
		1	20.260			20.260	40.750
							40.750

620.0041N1 kg ACERO TIPO 1030S INOX

ACERO TIPO 1030S INOX. INCLUSO P.P. DE VAINAS, ANCLAJE, TESADO E INYECCIÓN DE MORTERO, TOTALMENTE EJECUTADO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pérgola 1.8						
		1	20.49	0.25	62.80	321.69	
		1	20.26	0.25	62.80	318.08	
							639.77
							639.770

APARTADO 05.1.4 ACABADOS

411.0010N1 ud SUMIDERO EN TABLERO DE PUENTES

SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.

Pérgola 1.8

		10				10.00	10.00
							10.000

617.0700 m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B

PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).

Pérgola 1.8

		1	63.51			63.51	63.51
							63.510

704.0190N1 m PANTALLA OPACA DE 4 m PARA PROTECCIÓN DE AVES

PANTALLA OPACA DE 4 M PARA PROTECCIÓN DE AVES, COMPUESTA POR PERFIL HEB-160 DE ACERO TIPO S 275 JR (NORMA UNE-EN 10025-1:2006) Y DOS PERFILES LPN 70.7 DEL MISMO MATERIAL DE LAS HEB CON TRATAMIENTO ANTICORROSIÓN, DISPUESTOS COMO EN PLANOS I/ PASAMANOS Y P.P. DE TORNILLERÍA Y PLACA DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO Y PINTADO

Pérgola 1.8

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	78.150			78.150	
		1	57.960			57.960	136.110
							136.110

695.0080 ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m

REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M

Pérgola 1.8

		1				1.00	1.00
							1.000

695.0020 ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO

REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS

Pérgola 1.8

		1				1.00	1.00
							1.000

690.0010N1 m2 IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO

IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.

Losa. Pérgola

		1	2,248.13			2,248.13	2,248.13
							2,248.130

617.0031N1 m BARRERA DE SEGURIDAD DE HORM PREF TIPO DB 80 AS

BARRERA DE SEGURIDAD DE HORMIGÓN PREFABRICADO, TIPO DB 80 AS (NEW JERSEY), INCLUYENDO SUMINISTRO, TRANSPORTE Y COLOCACIÓN, TOTALMENTE TERMINADA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pérgola 1.8						
		1	58.90			58.90	
							58.90
							58.900
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Pérgola 1.8						
	Cuña de transición. Hastial 1						
		1	76.67	3.00		230.01	
		1	121.69	3.00		365.07	
		1	67.60	3.00		202.80	
		1	113.87	3.00		341.61	
		1	89.63	3.00		268.89	
		1	90.63	3.00		271.89	
		1	92.51	3.00		277.53	
		1	93.49	3.00		280.47	
		1	138.51	4.73		655.15	
		1	236.28	5.21		1,231.02	
	A descontar excavación considerada en hastiales	-1	30.00	70.70		-2,121.00	
	Cuña de transición. Hastial 2						
		1	76.47	3.00		229.41	
		1	122.87	3.00		368.61	
		1	67.97	3.00		203.91	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	114.11	3.00		342.33	
		1	106.10	3.00		318.30	
		1	105.10	3.00		315.30	
		1	90.51	3.00		271.53	
		1	89.64	3.00		268.92	
		1	154.41	5.03		776.68	
		1	231.41	5.03		1,163.99	
	A descontar excavación considerada en hastiales	-1	30.00	72.20		-2,166.00	4,096.42
							4,096.420
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Pérgola 1.8						
	Cuña de transición. Hastial 1						
		1	138.51	2.39		331.04	
		1	236.28	2.60		614.33	
	Cuña de transición. Hastial 2						
		1	154.41	2.51		387.57	
		1	231.41	2.51		580.84	1,913.78
							1,913.780
332.0011N1	m3 RELLENO LOCALIZADO EN CUÑAS DE TRANSICIÓN						
	RELLENO ESPECIAL EN CUÑA DE TRANSICIÓN I/ CARGA Y TRANSPORTE DE MATERIAL						
	Pérgola 1.8						
	Cuña de transición. Hastial 1						
		1	89.63	3.00		268.89	
		1	90.63	3.00		271.89	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	92.51	3.00		277.53	
		1	93.49	3.00		280.47	
	Cuña de transición. Hastial 2						
		1	106.10	3.00		318.30	
		1	105.10	3.00		315.30	
		1	90.51	3.00		271.53	
		1	89.64	3.00		268.92	2,272.83
							2,272.830

332.0010 m3 RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN

RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN.

	Pérgola 1.8						
	Cuña de transición. Hastial 1						
		1	76.67	3.00		230.01	
		1	121.69	3.00		365.07	
		1	67.60	3.00		202.80	
		1	113.87	3.00		341.61	
	Cuña de transición. Hastial 2						
		1	76.47	3.00		229.41	
		1	122.87	3.00		368.61	
		1	67.97	3.00		203.91	
		1	114.11	3.00		342.33	2,283.75
							2,283.750

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

SUBCAPÍTULO 05.2 PASOS SUPERIORES

APARTADO 05.2.1 PASO SUPERIOR 2.1

SUBAPARTADO 05.2.1.1 ESTRIBOS

ELEMENTO 05.2.1.1.1 ESTRIBO E-1

SUBELEMENTO 05.2.1.1.1.1 CIMENTACIÓN

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

			48.71	9.20		448.13	448.13
							448.130

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	Estribo		8.40	6.20	0.10	5.21	5.21
							5.210

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Estribo (longitudinal)	2	8.40	1.00		16.80	
	Estribo (transversal)	2	6.20	1.00		12.40	29.20
							29.200

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Estribo		5,622.44			5,622.44	5,622.44
							5,622.440
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Estribo	1	8.40	6.20	1.00	52.08	52.08
							52.080
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Estribo		41.25	9.20		379.50	379.50
							379.500
	SUBELEMENTO 05.2.1.1.1.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal	1	63.70			63.70	
	Aleta1	1	55.93			55.93	
	Aleta2	1	56.86			56.86	176.49
							176.490
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO,						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal	1	63.70			63.70	
	Aleta1	1	55.93			55.93	
	Aleta2	1	56.86			56.86	
	Losa de Transición	2	14.00			28.00	204.49
							204.490
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Losa de Transición	1	5.00	7.20	0.10	3.60	3.60
							3.600
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muro Principal		2,805.93			2,805.93	
	Aleta		5,345.35			5,345.35	
	Losa de Transición		870.36			870.36	9,021.64
							9,021.640
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muro Principal	1	56.38	0.90		50.74	
	Murete de Guarda	1	0.81	8.20		6.64	
	Aleta1	1	48.42	0.50		24.21	
	Aleta2	1	48.97	0.50		24.49	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Losa de Transición	1	7.20	5.00	0.30	10.80	116.88
							116.880

417.0010 m TUBO DE PVC DE DIÁMETRO 50 mm

TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.

		1	0.60			0.60	0.60
							0.600

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

	Muro Principal	1	63.70			63.70	
	Aleta1	1	55.93			55.93	
	Aleta2	1	56.86			56.86	176.49
							176.490

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

	Trasdós de muro	1	7.20			7.20	
	Trasdós de aletas	2	4.80			9.60	16.80
							16.800

411.0014N1 m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS

LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Muro Principal	1	63.70			63.70	
	Aleta1	1	55.93			55.93	
	Aleta2	1	56.86			56.86	176.49
							176.490

658.0020 m³ ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL

ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.

		65.53	0.40			26.21	26.21
							26.210

ELEMENTO 05.2.1.1.2 ESTRIBO E-2

SUBELEMENTO 05.2.1.1.2.1 CIMENTACIÓN

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

		42.48	9.20			390.82	390.82
							390.820

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

		8.40	3.60	0.10		3.02	3.02
							3.020

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Longitudinal	2	8.40	1.00		16.80	
	Transversal	2	4.40	1.00		8.80	25.60
							25.600
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
			8.40	4.40	1.00	36.96	36.96
							36.960
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
			4,821.55			4,821.55	4,821.55
							4,821.550
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
			34.61	9.20		318.41	318.41
							318.410
	SUBELEMENTO 05.2.1.1.2.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal		71.42			71.42	
	Aleta1		38.37			38.37	
	Aleta2		37.80			37.80	147.59
							147.590
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal		71.42			71.42	
	Aleta1		29.64			29.64	
	Aleta2		29.34			29.34	130.40
							130.400
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
			7.20	5.00	0.10	3.60	3.60
							3.600
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muro Principal	1	71.42	0.90		64.28	
	Murete de Guarda	1	1.04	8.20		8.53	
	Aleta1	1	29.64	0.50		14.82	
	Aleta2	1	29.34	0.50		14.67	
	Losa de Transición	1	5.00	7.20	0.30	10.80	113.10
							113.100

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muro		3,067.00			3,067.00	
	Aletas		4,304.75			4,304.75	
	Losa de Transición		870.36			870.36	8,242.11
							8,242.110
417.0010	m TUBO DE PVC DE DIÁMETRO 50 mm						
	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.						
		1	0.60			0.60	0.60
							0.600
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Muro Principal		71.42			71.42	
	Aleta1		29.64			29.64	
	Aleta2		29.34			29.34	130.40
							130.400
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Trasdós de muro	1	7.20			7.20	
	Trasdós de aleta	2	2.60			5.20	12.40
							12.400
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
	Muro Principal		71.42			71.42	
	Aleta1		29.64			29.64	
	Aleta2		29.34			29.34	130.40
							130.400
658.0020	m³ ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
		64.74	0.40			25.90	25.90
							25.900

SUBAPARTADO 05.2.1.2 PILA

ELEMENTO 05.2.1.2.1 CIMENTACIÓN

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Pila1		8.58	6.00		51.48	51.48
							51.480
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Pila1		5.00	3.50	0.10	1.75	1.75
							1.750
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Pila1 Longitudinal	2	3.50	1.00		7.00	
	Pila1 Transversal	2	5.00	1.00		10.00	17.00
							17.000
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Pila1		5.00	3.50	1.00	17.50	17.50
							17.500
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Pila1		2,653.71			2,653.71	2,653.71
							2,653.710
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila1		4.20	9.00		37.80	37.80
							37.800
	ELEMENTO 05.2.1.2.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Pila1 Longitudinal	2	5.14	2.00		20.56	
	Pila1 Transversal	2	5.14	1.00		10.28	30.84
							30.840
680.0040	m² ENCOFRADO VISTO CURVO						
	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Longitudinal	2	2.12			4.24	
	Transversal	2	3.55			7.10	11.34
							11.340
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Pila1 Alzado		2.00	5.14		10.28	
	Capitel	1				6.68	16.96
							16.960
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BRE RECOCIDO Y SEPARADORES.						
	Capitel	1	752.28			752.28	
	Alzado Pila1		1,619.85			1,619.85	2,372.13
							2,372.130

SUBAPARTADO 05.2.1.3 TABLERO

692.0100 dm³ APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE

APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.

	Estribos	4	3.50	4.50	0.55	34.65	
	Pila	4	3.50	4.50	0.55	34.65	69.30
							69.300

614.0030 m VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 cm

VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.

	Vano20	2	20.00			40.00	40.00
							40.000

682.0010 m³ ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO

ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.

	Porexpan en zona pilas	1	8.20	2.00	0.01	0.16	0.16
							0.160

630.3010 m² PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 cm DE ESPESOR

PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.

			8.20	40.00		328.00	328.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							328.000

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

	Acero en Losa		9,724.00			9,724.00	9,724.00
							9,724.000

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Hormigón en Losa	8.20	40.00	0.25		82.00	82.00
							82.000

SUBAPARTADO 05.2.1.4 ACABADOS

690.0010N1 m2 IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO

IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.

		8.20	40.00			328.00	328.00
							328.000

411.0013N1 m IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS

IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS

		2	57.00			114.00	114.00
							114.000

411.0010N1 ud SUMIDERO EN TABLERO DE PUENTES

SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		3				3.00	3.00
							3.000
617.0700	m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B						
	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).						
		2	57.00			114.00	114.00
							114.000
694.0050	m JUNTA DE DILATACIÓN PARA TABLERO DE 160 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR						
	JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.						
	Junta en estribos	2	8.20			16.40	16.40
							16.400
695.0070	ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 m , EXCEPTO EN EL PRIMER VANO						
	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO						
		1				1.00	1.00
							1.000
695.0010	ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE ISOSTÁTICO						
	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
543.0020	m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.						
		40.00	7.00			280.00	280.00
							280.000
542.0110	t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN						
	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.						
	e=5cm, densidad=2,17						
	Dotación de ligante= 5,76%						
		0.0576	280.00	0.05	2.17	1.75	1.75
							1.750
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	e=5cm, densidad=2,17						
	Dotación de ligante= 4,80%						
		0.048	280.00	0.05	2.17	1.46	1.46
							1.460

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 05.2.2 PASO SUPERIOR 3.4						
	SUBAPARTADO 05.2.2.1 ESTRIBOS						
	ELEMENTO 05.2.2.1.1 ESTRIBO E-1						
	SUBELEMENTO 05.3.2.1.1.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Estribo		69.05	9.20		635.26	
	Aleta1		69.05	8.63		595.90	
	Aleta2		69.05	8.41		580.71	1,811.87
							1,811.870
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Estribo		9.10	6.00	0.10	5.46	
	Aleta1		8.63	2.80	0.10	2.42	
	Aleta2		8.91	2.80	0.10	2.49	10.37
							10.370
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Estribo (longitudinal)	2	9.10	1.00		18.20	
	Estribo (transversal)	2	6.00	1.00		12.00	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Aleta1 (longitudinal)	2	8.91	1.00		17.82	
	Aleta1 (transversal)	2	2.80	1.00		5.60	
	Aleta2 (longitudinal)	2	8.63	1.00		17.26	
	Aleta2 (transversal)	2	2.80	1.00		5.60	76.48
							76.480
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Estribo		7,164.85			7,164.85	
	Aletas		4,395.60			4,395.60	11,560.45
							11,560.450
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Estribo	1	9.10	6.00	1.00	54.60	
	Aleta1	1	8.91	2.80	1.00	24.95	
	Aleta2	1	8.63	2.80	1.00	24.16	103.71
							103.710
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Estribo		84.43	9.20		776.76	
	Aleta1		84.43	8.63		728.63	
	Aleta2		84.43	8.91		752.27	2,257.66

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,257.660
	SUBELEMENTO 05.3.2.1.1.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal	1	79.18			79.18	
	Aleta1	1	52.38			52.38	
	Aleta2	1	54.81			54.81	186.37
							186.370
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal	1	79.18			79.18	
	Aleta1	1	52.38			52.38	
	Aleta2	1	54.81			54.81	
	Losa de Transición	2	14.00			28.00	214.37
							214.370
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Losa de Transición	1	5.00	9.00	0.10	4.50	4.50
							4.500
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAM-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BRE RECOCIDO Y SEPARADORES.						
	Muro Principal		4,401.17			4,401.17	
	Aleta		4,877.90			4,877.90	
	Losa de Transición		870.36			870.36	10,149.43
							10,149.430
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muro Principal	1	71.63	0.90		64.47	
	Murete de Guarda	1	0.98	9.10		8.92	
	Aleta1	1	52.38	0.50		26.19	
	Aleta2	1	54.81	0.50		27.41	
	Losa de Transición	1	14.00	0.30	4.20	131.19	
							131.190
417.0010	m TUBO DE PVC DE DIÁMETRO 50 mm						
	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.						
		1	0.60			0.60	0.60
							0.600
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Muro Principal	1	79.18			79.18	
	Aleta1	1	52.38			52.38	
	Aleta2	1	54.81			54.81	186.37

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							186.370
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
	Trasdós de muro	1	9.10			9.10	
	Trasdós de aletas	1	17.54			17.54	26.64
							26.640
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
	Muro Principal	1	79.18			79.18	
	Aleta1	1	52.38			52.38	
	Aleta2	1	54.81			54.81	186.37
							186.370
658.0020	m³ ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
			336.92	0.40		134.77	134.77
							134.770

ELEMENTO 05.2.2.1.2 ESTRIBO E-2

SUBELEMENTO 05.3.2.1.2.1 CIMENTACIÓN

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
			28.46	9.20		261.83	261.83
							261.830
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
			8.40	3.40	0.10	2.86	2.86
							2.860
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Longitudinal	2	8.40	1.00		16.80	
	Transversal	2	3.40	1.00		6.80	23.60
							23.600
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
			8.40	3.40	1.00	28.56	28.56
							28.560
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
			2,780.28			2,780.28	2,780.28
							2,780.280
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
			21.92	9.40		206.05	206.05
							206.050
	SUBELEMENTO 05.3.2.1.2.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal		45.70			45.70	
	Aleta1		12.62			12.62	
	Aleta2		12.24			12.24	70.56
							70.560
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Muro Principal		45.70			45.70	
	Aleta1		6.62			6.62	
	Aleta2		6.50			6.50	58.82
							58.820
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
			8.40	3.40	0.10	2.86	2.86
							2.860
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Muro Principal	1	38.50	0.90		34.65	
	Murete de Guarda	1	1.12	8.20		9.18	
	Aleta1	1	6.62	0.50		3.31	
	Aleta2	1	6.50	0.50		3.25	
	Losa de Transición	1	5.00	7.20	0.30	10.80	61.19
							61.190
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muro		2,238.41			2,238.41	
	Aletas		1,383.70			1,383.70	
	Losa de Transición		870.36			870.36	4,492.47
							4,492.470
417.0010	m TUBO DE PVC DE DIÁMETRO 50 mm						
	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.						
		1	0.60			0.60	0.60
							0.600

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
	Muro Principal		45.70			45.70	
	Aleta1		6.62			6.62	
	Aleta2		6.50			6.50	58.82
							58.820
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
	Trasdós de muro	1	7.20			7.20	
	Trasdós de aleta	2	1.40			2.80	10.00
							10.000
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
	Muro Principal		45.70			45.70	
	Aleta1		6.62			6.62	
	Aleta2		6.50			6.50	58.82
							58.820
658.0020	m³ ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						
			265.08	0.40		106.03	106.03

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							106.030
	SUBAPARTADO 05.2.2.2 PILA						
	ELEMENTO 05.2.2.2.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Pila1		24.32	9.00		218.88	
	Pila2		13.32	8.50		113.22	
	Pila3		50.10	8.50		425.85	757.95
							757.950
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Pila1		8.00	4.50	0.10	3.60	
	Pila2		7.50	4.50	0.10	3.38	
	Pila3		7.50	4.50	0.10	3.38	10.36
							10.360
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Pila1 Longitudinal	2	4.50	1.50		13.50	
	Pila1 Transversal	2	8.00	1.50		24.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila2 Longitudinal	2	4.50	1.50		13.50	
	Pila2 Transversal	2	7.50	1.50		22.50	
	Pila3 Longitudinal	2	4.50	1.50		13.50	
	Pila3 Transversal	2	7.50	1.50		22.50	109.50
							109.500

610.0030 m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

Pila1	8.00	4.50	1.50	54.00		
Pila2	7.50	4.50	1.50	50.63		
Pila3	7.50	4.50	1.50	50.63	155.26	
					155.260	

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Pila1	5,983.99		5,983.99	
Pila2	5,729.91		5,729.91	
Pila3	8,279.42		8,279.42	19,993.32
				19,993.320

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

Pila1	16.10	9.00	144.90	
Pila2	5.68	8.50	48.28	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila3		39.22	8.50		333.37	526.55
							526.550

ELEMENTO 05.2.2.2.2 ALZADO

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Pila1 Longitudinal	2	17.71	2.00	70.84		
Pila1 Transversal	2	17.71	1.00	35.42		
Pila2 Longitudinal	2	16.51	2.00	66.04		
Pila2 Transversal	2	16.51	1.00	33.02		
Pila3 Longitudinal	2	15.71	2.00	62.84		
Pila3 Transversal	2	15.71	1.00	31.42	299.58	
					299.580	

680.0040 m² ENCOFRADO VISTO CURVO

ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Longitudinal	6	2.12		12.72	
Transversal	6	3.55		21.30	34.02
					34.020

610.0070 m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

Pila1 Alzado	2.00	17.71	35.42	
Pila2 Alzado	2.00	16.51	33.02	
Pila3 Alzado	2.00	15.71	31.42	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Capitel	3				20.04	119.90
							119.900
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Capitel	3	752.28			2,256.84	
	Alzado Pila1		8,774.18			8,774.18	
	Alzado Pila2		8,279.42			8,279.42	
	Alzado Pila3		8,279.42			8,279.42	27,589.86
							27,589.860
	SUBAPARTADO 05.2.2.3 TABLERO						
692.0100	dm³ APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE						
	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.						
	Estribos	4	4.00	5.00	1.71	136.80	
	Pila	12	4.00	3.00	0.52	74.88	211.68
							211.680
614.0030	m VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 cm						
	VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.						
	Vano20	3	20.00			60.00	
	Vano14	1	14.00			14.00	74.00
							74.000
682.0010	m³ ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO						
	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Porexpan en zona pilas	3	8.20	2.00	0.01	0.49	0.49
							0.490
630.3010	m² PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 cm DE ESPESOR						
	PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.						
			8.20	74.00		606.80	606.80
							606.800
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Acero en Losa		17,263.95			17,263.95	17,263.95
							17,263.950
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Hormigón en Losa		8.20	74.00	0.25	151.70	151.70
							151.700

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 05.2.2.4 ACABADOS						
690.0010N1	m2 IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO						
	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.						
			8.20	74.00		606.80	606.80
							606.800
411.0013N1	m IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS						
	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS						
		2	92.00			184.00	184.00
							184.000
411.0010N1	ud SUMIDERO EN TABLERO DE PUENTES						
	SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.						
		5				5.00	5.00
							5.000
617.0700	m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B						
	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).						
		2	92.00			184.00	184.00
							184.000
694.0050	m JUNTA DE DILATACIÓN PARA TABLERO DE 160 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR						
	JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMI-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	COS Y SELLADORES.						
	Junta en estribos	2	8.20			16.40	16.40
							16.400
695.0070	ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 m , EXCEPTO EN EL PRIMER VANO						
	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO						
		1				1.00	1.00
							1.000
695.0010	ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE ISOSTÁTICO						
	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS						
		1				1.00	1.00
							1.000
543.0020	m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.						
		74.00	7.00			518.00	518.00
							518.000
542.0110	t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN						
	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.						
	e=5cm, densidad=2,17						
	Dotación de ligante= 5,76%						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		0.0576	518.00	0.05	2.17	3.24	3.24
							3.240
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	e=5cm, densidad=2,17						
	Dotación de ligante= 4,80%						
		0.048	518.00	0.05	2.17	2.70	2.70
							2.700

APARTADO 05.2.3 PASO SUPERIOR 4.8

SUBAPARTADO 05.2.3.1 ESTRIBOS

ELEMENTO 05.2.3.1.1 ESTRIBO E-1

SUBELEMENTO 05.2.3.1.1.1 CIMENTACIÓN

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Excavación localizada	48.22	9.00			433.98	433.98
							433.980
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Asiento zapata	6.85	8.40	0.10		5.75	5.75
							5.750

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Sección longitudinal	2	6.85		1.00	13.70	
	Sección transversal	2	8.20		1.00	16.40	30.10
							30.100
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata		6.85	8.20	1.00	56.17	56.17
							56.170
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		5,703.06				5,703.06	5,703.06
							5,703.060
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		48.22	9.00			433.98	
		-1	6.85	8.20	1.00	-56.17	377.81
							377.810

SUBELEMENTO 05.2.3.1.1.2 ALZADO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Intradós estribo			8.20	8.53	69.95	
	Intradós aleta dch				59.80	59.80	
	Intradós aleta izq				49.80	49.80	
	Murete de guarda			8.20	1.40	11.48	191.03
							191.030
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Trasdós estribo			8.20	10.53	86.35	
	Trasdós aleta dch				49.50	49.50	
	Trasdós aleta izq				39.50	39.50	
	Losa de transición long		5.00		0.30	1.50	
	Losa de transición trans		8.00		0.30	2.40	
		2	1.00	1.20		2.40	
				0.50	12.50	6.25	
				0.50	10.00	5.00	192.90
							192.900
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Alzado estribo		8.20	0.90	8.53	62.95	
	Murete de guarda		8.20			7.35	
	Losa de transición		5.00	8.00	0.30	12.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Aleta dch			0.50		24.68	
	Aleta izq			0.50		19.73	126.71
							126.710
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Losa de transición	5.00	8.00	0.10		4.00	4.00
							4.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Muro					3,922.06	3,922.06
	Aleta 1					3,625.97	3,625.97
	Aleta 2					3,944.67	3,944.67
	Losa de transición					970.86	970.86 12,463.56
							12,463.560
417.0010	m TUBO DE PVC DE DIÁMETRO 50 mm						
	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.						
		0.80				0.80	0.80
							0.800
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Trasdós estribo			8.20	10.53	86.35	
	Trasdós aleta dch				49.50	49.50	
	Trasdós aleta izq				39.50	39.50	
	Losa de transición long		5.00		0.30	1.50	
	Losa de transición trans		8.00		0.30	2.40	
				0.50	12.50	6.25	
				0.50	10.00	5.00	190.50
							190.500

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

			9.00			9.00	9.00
							9.000

411.0014N1 m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS

LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO

	Trasdós estribo			8.20	10.53	86.35	
	Trasdós aleta dch				49.50	49.50	
	Trasdós aleta izq				39.50	39.50	
	Losa de transición long		5.00		0.30	1.50	
	Losa de transición trans		8.00		0.30	2.40	
				0.50	12.50	6.25	
				0.50	10.00	5.00	190.50
							190.500

ELEMENTO 05.2.3.1.2 ESTRIBO E-2

SUBELEMENTO 05.2.3.1.2.1 CIMENTACIÓN

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Excavación localizada	31.30	9.00			281.70	281.70
							281.700

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

	Asiento zapata	7.55	8.40	0.10	6.34	6.34	
							6.340

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

	Sección longitudinal	2	7.55		1.00	15.10	
	Sección transversal	2	8.40		1.00	16.80	31.90
							31.900

610.0030 m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	Zapata		7.55	8.40	1.00	63.42	63.42
							63.420

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
			5,721.75			5,721.75	5,721.75
							5,721.750
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
			31.30	9.00		281.70	
		-1	7.55	8.40	1.00	-63.42	218.28
							218.280
	SUBELEMENTO 05.2.3.1.2.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Intradós estribo	8.20	7.53			61.75	
	Intradós aleta dch			68.30		68.30	
	Intradós aleta izq			58.60		58.60	
	Murete de guarda	8.20	0.82			6.72	195.37
							195.370
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Trasdós estribo			8.20	10.06	82.49	
	Trasdós aleta dch				60.00	60.00	
	Trasdós aleta izq				48.00	48.00	
	Losa de transición long		5.00		0.30	1.50	
	Losa de transición trans		8.00		0.30	2.40	
		2	1.20	1.00		2.40	
			0.50	11.70		5.85	
			0.50	10.00		5.00	207.64
							207.640
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Alzado estribo		8.20	0.90	7.92	58.45	
	Murete de guarda		8.20		0.90	7.38	
	Losa de transición	5.00	8.00		0.30	12.00	
	Aleta dch			0.50	49.50	24.75	
	Aleta izq			0.50	39.50	19.75	122.33
							122.330
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Losa de transición	5.00	8.00	0.10		4.00	4.00
							4.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Muro				3,751.52	3,751.52	
	Aleta 1				3,960.11	3,960.11	
	Aleta 2				4,279.28	4,279.28	
	Losa de transición				970.86	970.86	12,961.77
							12,961.770

417.0010 m TUBO DE PVC DE DIÁMETRO 50 mm

TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.

0.80			0.80	0.80	
					0.800

690.0070 m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP

PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.

Trasdós estribo		8.20	10.06	82.49	
Trasdós aleta dch			60.00	60.00	
Trasdós aleta izq			48.00	48.00	
Losa de transición long	5.00		0.30	1.50	
Losa de transición trans	8.00		0.30	2.40	
	0.50	11.70		5.85	
	0.50	10.00		5.00	205.24
					205.240

424.0020 m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm

TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
			9.00			9.00	9.00
							9.000

411.0014N1 m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS

LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO

Trasdós estribo		8.20	10.06	82.49	
Trasdós aleta dch			60.00	60.00	
Trasdós aleta izq			48.00	48.00	
Losa de transición long	5.00		0.30	1.50	
Losa de transición trans	8.00		0.30	2.40	
	0.50	11.70		5.85	
	0.50	10.00		5.00	205.24
					205.240

SUBAPARTADO 05.2.3.2 PILAS

ELEMENTO 05.2.3.2.1 PILA 1

SUBELEMENTO 05.2.3.2.1.1 CIMENTACIÓN

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

6.50			101.20	101.20	
					101.200

610.0010 m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA

HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Asiento zapata		6.10	6.10	0.10	3.72	3.72
							3.720
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Sección long.	2	6.00		1.20	14.40	
	Sección trans.	2	6.00		1.20	14.40	28.80
							28.800
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata		6.00	6.00	1.20	43.20	43.20
							43.200
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapata		4,097.00			4,097.00	4,097.00
							4,097.000
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
			6.50			101.20	101.20
							101.200

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBELEMENTO 05.2.3.2.1.2 ALZADO						
680.0040	m² ENCOFRADO VISTO CURVO						
	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
				4.71	8.57	40.36	40.36
							40.360
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
				1.77	8.57	15.17	15.17
							15.170
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Pila		1,994.26			1,994.26	1,994.26
							1,994.260
	ELEMENTO 05.2.3.2.2 PILA 2						
	SUBELEMENTO 05.2.3.2.2.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
			6.50			279.55	279.55
							279.550
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Asiento zapata		6.10	6.10	0.10	3.72	3.72
							3.720
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Sección long.	2	6.00		1.20	14.40	
	Sección trans.	2	6.00		1.20	14.40	28.80
							28.800
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata		6.00	6.00	1.20	43.20	43.20
							43.200
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapata		4,097.23			4,097.23	4,097.23
							4,097.230
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
			6.50			279.55	279.55
							279.550
	SUBELEMENTO 05.2.3.2.2.2 ALZADO						
680.0040	m² ENCOFRADO VISTO CURVO						
	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
			4.71	12.77		60.15	60.15
							60.150
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
			1.77	12.74		22.55	22.55
							22.550
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Pila		2,862.66			2,862.66	2,862.66
							2,862.660
	ELEMENTO 05.2.3.2.3 PILA 3						
	SUBELEMENTO 05.2.3.2.3.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
		6.50				134.75	134.75
							134.750
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Asiento zapata	6.10	6.10	0.10		3.72	3.72
							3.720
680.0010	m² ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Sección long.	2	6.00		1.20	14.40	
	Sección trans.	2	6.00		1.20	14.40	28.80
							28.800
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata		6.00	6.00	1.20	43.20	43.20
							43.200
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapata		4,097.23			4,097.23	4,097.23
							4,097.230
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
		6.50				134.75	134.75
							134.750
	SUBELEMENTO 05.2.3.2.3.2 ALZADO						
680.0040	m² ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
		4.71	9.85			46.39	46.39
							46.390
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		1.77	9.85			17.43	17.43
							17.430
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pila		2,252.58			2,252.58	2,252.58
							2,252.580

SUBAPARTADO 05.2.3.3 TABLERO

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Tablero	112.00	9.66		1,081.92	
Riostra estribos	4.00	10.74		42.96	1,124.88
					1,124.880

682.0010 m³ ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO

ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.

	2	100.00		100.60	100.60
					100.600

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

Tablero		103,189.92	103,189.92	
acera		2,146.44	2,146.44	105,336.36
				105,336.360

610.0150 m³ HORMIGÓN PARA PRETENSAR C40/50

HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.

Losa aligerada		100.00		458.50	
Riostra sobre pil		12.00		67.08	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Riostra sobre estribo		4.00			39.89	565.47
							565.470

601.0010 kg ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL

ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.

6	118.17	27.00	0.14	21,038.75	21,038.75	
					21,038.750	

692.0100 dm³ APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE

APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.

Estribos	4	6.00	4.50	1.26	136.08	
Pilas	3		50.27	0.60	90.49	226.57
						226.570

SUBAPARTADO 05.2.3.4 ACABADOS

690.0010N1 m2 IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO

IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.

Taablero	116.00	8.20		951.20	951.20
					951.200

694.0010 m JUNTA DE DILATACIÓN PARA TABLERO DE 50 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR

JUNTA DE DILATACIÓN PARA TABLERO DE 50 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMI-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	COS Y SELLADORES.						
		2	8.20			16.40	16.40
							16.400
681.0010	m³ CIMBRA CUAJADA						
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
			914.55	8.20		7,499.31	7,499.31
							7,499.310
411.0013N1	m IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS						
	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS						
		2	132.90			265.80	265.80
							265.800
411.0010N1	ud SUMIDERO EN TABLERO DE PUENTES						
	SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.						
		5				5.00	5.00
							5.000
695.0080	ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m						
	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M						
		1				1.00	1.00
							1.000
695.0020	ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO						
	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
617.0700	m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B						
	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).						
	Derecha		140.16			140.16	
	Izquierda		130.25			130.25	270.41
							270.410
543.0020	m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.						
			116.00	7.00		812.00	812.00
							812.000
542.0110	t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN						
	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.						
	e=5cm, densidad=2,17						
	Dotación de ligante= 5,76%						
			0.0576	812.00	0.05	2.17	5.07	5.07
							5.070
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	e=5cm, densidad=2,17						
	Dotación de ligante= 4,80%						
		0.048	812.00	0.05	2.17	4.23	4.23
							4.230

SUBCAPÍTULO 05.3 MUROS

APARTADO 05.3.1 MURO 3.3 M.D

803.0441N1 m³ HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES

HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.

Muro 6						
	1	380.750		0.120	45.690	45.690
						45.690

675.1250 ud PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B

PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.

	52				52.00	52.00
						52.000

680.0010 m² ENCOFRADO OCULTO PLANO

ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.

Muro 6						
Viga Coronación	2	51.59		0.70	72.23	
	2		0.80	0.70	1.12	
Viga Atado						
Nivel 1	2	58.70		0.70	82.18	
	2		0.60	0.70	0.84	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Nivel 2	2	37.60		0.70	52.64	
		2		0.60	0.70	0.84	
	Nivel 3	2	24.06		0.70	33.68	
		2		0.60	0.70	0.84	
	Nivel 4	2	14.03		0.70	19.64	
		2		0.60	0.70	0.84	
	Nivel 5	2	4.00		0.70	5.60	
		2		0.60	0.70	0.84	271.29
							271.290

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

Muro 6					
Viga Coronación	1	51.59	0.80	0.70	28.89
Viga Atado					
Nivel 1	1	58.70	0.60	0.70	24.65
Nivel 2	1	37.60	0.60	0.70	15.79
Nivel 3	1	24.06	0.60	0.70	10.11
Nivel 4	1	14.03	0.60	0.70	5.89
Nivel 5	1	4.00	0.60	0.70	1.68
Pilotes					
Pilote 1	1	0.28		5.33	1.49
Pilote 2	1	0.28		5.85	1.64
Pilote 3	1	0.28		6.37	1.78
Pilote 4	1	0.28		6.88	1.93
Pilote 5	1	0.28		7.40	2.07
Pilote 6	1	0.28		7.92	2.22
Pilote 7	1	0.28		8.43	2.36
Pilote 8	1	0.28		8.79	2.46
Pilote 9	1	0.28		8.87	2.48

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 10	1	0.28		8.95	2.51	
	Pilote 11	1	0.28		9.03	2.53	
	Pilote 12	1	0.28		9.11	2.55	
	Pilote 13	1	0.28		9.19	2.57	
	Pilote 14	1	0.28		9.26	2.59	
	Pilote 15	1	0.28		9.56	2.68	
	Pilote 16	1	0.28		10.06	2.82	
	Pilote 17	1	0.28		10.56	2.96	
	Pilote 18	1	0.28		11.07	3.10	
	Pilote 19	1	0.28		11.57	3.24	
	Pilote 20	1	0.28		12.07	3.38	
	Pilote 21	1	0.28		12.58	3.52	
	Pilote 22	1	0.28		13.08	3.66	
	Pilote 23	1	0.28		13.58	3.80	
	Pilote 24	1	0.28		14.18	3.97	
	Pilote 25	1	0.28		14.59	4.09	
	Pilote 26	1	0.28		15.09	4.23	
	Pilote 27	1	0.28		15.59	4.37	
	Pilote 28	1	0.28		16.10	4.51	
	Pilote 29	1	0.28		16.60	4.65	
	Pilote 30	1	0.28		17.11	4.79	
	Pilote 31	1	0.28		17.61	4.93	
	Pilote 32	1	0.28		18.23	5.10	
	Pilote 33	1	0.28		18.62	5.21	
	Pilote 34	1	0.28		19.35	5.42	
	Pilote 35	1	0.28		19.08	5.34	
	Pilote 36	1	0.28		18.31	5.13	
	Pilote 37	1	0.28		17.61	4.93	
	Pilote 38	1	0.28		16.90	4.73	
	Pilote 39	1	0.28		15.79	4.42	
	Pilote 40	1	0.28		14.73	4.12	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 41	1	0.28		13.64	3.82	
	Pilote 42	1	0.28		12.55	3.51	
	Pilote 43	1	0.28		11.46	3.21	
	Pilote 44	1	0.28		10.37	2.90	
	Pilote 45	1	0.28		9.28	2.60	
	Pilote 46	1	0.28		8.29	2.32	
	Pilote 47	1	0.28		7.99	2.24	
	Pilote 48	1	0.28		7.69	2.15	
	Pilote 49	1	0.28		7.39	2.07	
	Pilote 50	1	0.28		6.92	1.94	
	Murete coronación (antiruido)	1	13.43	0.40	1.50	8.06	262.11
							262.110

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

S/ Despieces			
Muro 6			
Pilotes			
Pilote 1	1	159.94	159.94
Pilote 2	1	174.19	174.19
Pilote 3	1	187.34	187.34
Pilote 4	1	201.40	201.40
Pilote 5	1	214.55	214.55
Pilote 6	1	228.80	228.80
Pilote 7	1	241.76	241.76
Pilote 8	1	250.78	250.78
Pilote 9	1	253.40	253.40
Pilote 10	1	256.01	256.01

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 11	1	257.53			257.53	
	Pilote 12	1	260.14			260.14	
	Pilote 13	1	261.66			261.66	
	Pilote 14	1	264.09			264.09	
	Pilote 15	1	271.97			271.97	
	Pilote 16	1	284.74			284.74	
	Pilote 17	1	297.51			297.51	
	Pilote 18	1	340.01			340.01	
	Pilote 19	1	346.15			346.15	
	Pilote 20	1	358.92			358.92	
	Pilote 21	1	372.98			372.98	
	Pilote 22	1	385.75			385.75	
	Pilote 23	1	398.52			398.52	
	Pilote 24	1	414.29			414.29	
	Pilote 25	1	425.35			425.35	
	Pilote 26	1	438.13			438.13	
	Pilote 27	1	452.00			452.00	
	Pilote 28	1	464.96			464.96	
	Pilote 29	1	478.83			478.83	
	Pilote 30	1	491.79			491.79	
	Pilote 31	1	504.56			504.56	
	Pilote 32	1	520.71			520.71	
	Pilote 33	1	531.39			531.39	
	Pilote 34	1	550.72			550.72	
	Pilote 35	1	543.41			543.41	
	Pilote 36	1	523.32			523.32	
	Pilote 37	1	504.56			504.56	
	Pilote 38	1	486.71			486.71	
	Pilote 39	1	456.89			456.89	
	Pilote 40	1	429.11			429.11	
	Pilote 41	1	400.76			400.76	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 42	1	372.41			372.41	
	Pilote 43	1	342.96			342.96	
	Pilote 44	1	292.81			292.81	
	Pilote 45	1	264.46			264.46	
	Pilote 46	1	238.01			238.01	
	Pilote 47	1	230.13			230.13	
	Pilote 48	1	222.25			222.25	
	Pilote 49	1	214.36			214.36	
	Pilote 50	1	202.16			202.16	
	Pilote 51	1	174.76			174.76	
	Vigas Coronación						
	Viga Coronación. Tramo 1	1	2,751.83			2,751.83	
	Viga Coronación. Tramo 2	1	1,062.66			1,062.66	
	Vigas Intermedias						
	Nivel 1	1	4,374.31			4,374.31	
	Nivel 2	1	2,558.77			2,558.77	
	Nivel 3	1	1,767.75			1,767.75	
	Nivel 4	1	1,081.73			1,081.73	31,036.99
	armado murete antiruido		377.00			377.00	377.00
	Nivel 5	1	391.71			391.71	391.71
							31,805.700

671.0030 m PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD

PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.

	Muro 6						
	Pilotes						
	Pilote 1	1	5.33			5.33	
	Pilote 2	1	5.85			5.85	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 3	1	6.37			6.37	
	Pilote 4	1	6.88			6.88	
	Pilote 5	1	7.40			7.40	
	Pilote 6	1	7.92			7.92	
	Pilote 7	1	8.43			8.43	
	Pilote 8	1	8.79			8.79	
	Pilote 9	1	8.87			8.87	
	Pilote 10	1	8.95			8.95	
	Pilote 11	1	9.03			9.03	
	Pilote 12	1	9.11			9.11	
	Pilote 13	1	9.19			9.19	
	Pilote 14	1	9.26			9.26	
	Pilote 15	1	9.56			9.56	
	Pilote 16	1	10.06			10.06	
	Pilote 17	1	10.56			10.56	
	Pilote 18	1	11.07			11.07	
	Pilote 19	1	11.57			11.57	
	Pilote 20	1	12.07			12.07	
	Pilote 21	1	12.58			12.58	
	Pilote 22	1	13.08			13.08	
	Pilote 23	1	13.58			13.58	
	Pilote 24	1	14.18			14.18	
	Pilote 25	1	14.59			14.59	
	Pilote 26	1	15.09			15.09	
	Pilote 27	1	15.59			15.59	
	Pilote 28	1	16.10			16.10	
	Pilote 29	1	16.60			16.60	
	Pilote 30	1	17.11			17.11	
	Pilote 31	1	17.61			17.61	
	Pilote 32	1	18.23			18.23	
	Pilote 33	1	18.62			18.62	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Pilote 34	1	19.35			19.35	
	Pilote 35	1	19.08			19.08	
	Pilote 36	1	18.31			18.31	
	Pilote 37	1	17.61			17.61	
	Pilote 38	1	16.90			16.90	
	Pilote 39	1	15.79			15.79	
	Pilote 40	1	14.73			14.73	
	Pilote 41	1	13.64			13.64	
	Pilote 42	1	12.55			12.55	
	Pilote 43	1	11.46			11.46	
	Pilote 44	1	10.37			10.37	
	Pilote 45	1	9.28			9.28	
	Pilote 46	1	8.29			8.29	
	Pilote 47	1	7.99			7.99	
	Pilote 48	1	7.69			7.69	
	Pilote 49	1	7.39			7.39	
	Pilote 50	1	6.92			6.92	
	Pilote 51	1	5.88			5.88	
	Murete tramo 2 (antiruido)	1	13.43	0.40	1.50	8.06	610.52
							610.520
675.1121N2	m ANCLAJE PERMANENTE CON INYECCIÓN REPETITIVA Y SELECTIVA (IRS) TI						
	ANCLAJE TIPO 4B (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).						
	Muro 3.3 M.D						
	Nivel 1						
		9	15.00			135.00	135.00
							135.000
675.1120N1	m ANCLAJE PERMANENTE CON INYECCIÓN REPETITIVA Y SELECTIVA (IRS) TI						
	ANCLAJE TIPO 4B (4 CABLES), PROBADO Y ACEPTADO I/ EM-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).						
	Muro 3.3 M.D						
	Nivel 2						
		19	14.00			266.00	
	Nivel 3						
		13	13.00			169.00	
	Nivel 4						
		8	11.00			88.00	
	Nivel 5						
		3	10.00			30.00	553.00
							553.000

680.1000 ud EQUIPO Y MEDIOS AUXILIARES PILOTES HASTA 1200 mm

TRANSPORTE, MONTAJE Y RETIRADA DEL EQUIPO Y MEDIOS AUXILIARES PARA EJECUCIÓN DE PILOTES DE DIÁMETRO HASTA 1200 MM.

	Muro 3.3 M.D						
		1				1.00	1.00
							1.000

308.0151N1 ud ENSAYO SÓNICO EN PILOTES

ENSAYO SÓNICO EN PILOTES

	Muro 3.3 M.D						
	Pilotes	51	3.00			153.00	153.00
							153.000

803.0303N1 m² MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10

MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.

Muro 3.3 M.D

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	380.750			380.750	
	A descontar vigas de atado y coronación						
	Viga Coronación	-1	51.590		0.700	-36.113	
	Viga Atado						
	Nivel 1	-1	58.700		0.700	-41.090	
	Nivel 2	-1	37.600		0.700	-26.320	
	Nivel 3	-1	24.060		0.700	-16.842	
	Nivel 4	-1	14.030		0.700	-9.821	
	Nivel 5	-1	4.000		0.700	-2.800	247.764
							247.764

417.0031N1 m TUBO DE PVC DE DIÁMETRO 100 mm

TUBO DE PVC DE DIÁMETRO 100MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.

	Muro 3.3 M.D						
		50	9.65			482.50	482.50
							482.500

290.0090N1 m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)

GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

	Muro 3.3 M.D						
		1	380.750			380.750	380.750
							380.750

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 05.3.2 MURO C 0.1 M.I						
	SUBAPARTADO 05.3.2.2 BARRERA						
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
		1	114.15	0.60		68.49	68.49
							68.490
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	ARMADO POR CUANTÍA		68.49	145.00		9,931.05	9,931.05
							9,931.050
617.0700	m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B						
	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).						
			114.15			114.15	114.15
							114.150

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 05.3.2.1 ALZADO						
630.0020	m² MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN DE 6 m A 12 m DE ALTURA						
	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.						
						581.73	581.73
							581.730
	APARTADO 05.3.3 MURO C 0.2 M.D						
	SUBAPARTADO 05.3.3.2 ALZADO						
630.0020	m² MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN DE 6 m A 12 m DE ALTURA						
	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.						
						291.23	291.23
							291.230
	SUBAPARTADO 05.3.3.1 BARRERA						
617.0700	m PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B						
	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).						
		1	75.93			75.93	75.93
							75.930
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ARMADO POR CUANTÍA		45.56	145.00		6,606.20	6,606.20
							6,606.200
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	IOSA CIMENTACIÓN ARRERA	1	75.93	0.60		45.56	45.56
							45.560
	APARTADO 05.3.4 MURO R 0.2						
	SUBAPARTADO 05.3.4.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
			15.00	1.10		16.50	16.50
							16.500
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Estribo		21.76	1.10	0.10	2.39	2.39
							2.390
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	longitudinal	2	21.80	0.25		10.90	
	transversal	2	1.10	0.25		0.55	11.45
							11.450
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
						636.52	636.52
							636.520
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	21.76	1.10	0.25	5.98	5.98
							5.980
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Estribo		15.00	1.10		16.50	16.50
							16.500

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 05.3.4.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
						16.85	16.85
							16.850
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
						16.85	16.85
							16.850
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
						425.80	425.80
							425.800
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
			16.85	0.25		4.21	4.21
							4.210
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
						16.85	16.85
							16.850
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
						22.00	22.00
							22.000
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
						16.85	16.85
							16.850
	APARTADO 05.3.5 MURO R 0.3						
	SUBAPARTADO 05.3.5.1 CIMENTACIÓN						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
			85.00	5.00		425.00	425.00
							425.000
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
			58.30	4.75	0.10	27.69	27.69
							27.690
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	longitudinal	2	58.30	0.80		93.28	
	transversal	2	4.75	0.80		7.60	100.88
							100.880
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		1				14,768.75	14,768.75
							14,768.750
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		1	58.30	4.75	0.80	221.54	221.54
							221.540
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Estribo		85.00	5.00		425.00	425.00
							425.000
	SUBAPARTADO 05.3.5.2 ALZADO						
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
						177.10	177.10
							177.100
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
						177.10	177.10
							177.100
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		1				9,508.23	9,508.23
							9,508.230
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
			117.10	0.50		58.55	58.55
							58.550
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP						
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.						
						117.10	117.10
							117.100
424.0020	m TUBO DE PVC RANURADO DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.						
						58.30	58.30
							58.300
411.0014N1	m² LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS						
	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO						
						117.30	117.30
							117.300

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 06 SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS						
	SUBCAPÍTULO 06.1 SEÑALIZACIÓN HORIZONTAL						
700.0020	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm						
	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med aux	11,888.48				11,888.48	11,888.48
							11,888.480
700.0035N1	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 30 cm						
	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med aux	1,631.000				1,631.000	1,631.000
							1,631.000
700.0035N2	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 40 cm						
	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med aux	1.160				1.160	1.160
							1.160
700.0145N1	m² MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE						
	MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.						
	S/Med aux	322.370				322.370	322.370
							322.370

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 06.2 SEÑALIZACIÓN VERTICAL						
701.0050	ud SEÑAL CIRCULAR DE 120 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA3						
	SEÑAL CIRCULAR DE 120 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	12				12.00	12.00
							12.000
701.0080	ud SEÑAL CIRCULAR DE 90 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA2						
	SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	8				8.00	8.00
							8.000
701.0110	ud SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 cm Y RETRORREFLECTANCIA DE CLASE RA2						
	SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 CM, RETRORREFLACTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	3				3.00	3.00
							3.000
701.0010	ud SEÑAL TRIANGULAR DE 175 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3						
	SEÑAL TRIANGULAR DE 175 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	8				8.00	8.00
							8.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
701.0040	ud SEÑAL TRIANGULAR DE 135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA2						
	SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	4				4.00	4.00
							4.000
701.0120	ud SEÑAL CUADRADA DE 120 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3						
	SEÑAL CUADRADA DE 120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	7				7.00	7.00
							7.000
701.0180	ud SEÑAL RECTANGULAR DE 90X135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3						
	SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	16				16.00	16.00
							16.000
701.0200	ud SEÑAL RECTANGULAR DE 60X120 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3						
	SEÑAL RECTANGULAR DE 60X120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	6				6.00	6.00
							6.000
701.0200N2	ud SEÑAL RECTANGULAR DE 40X95 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SEÑAL RECTANGULAR DE 40 X 95 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTES GALVANIZADOS, FIJADOS A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux	10				10.000	10.000
							10.000
701.0220	m² CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA3						
	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux		2.73			2.73	2.73
							2.730
701.0230	m² CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA2						
	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA2, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux		3.66			3.66	3.66
							3.660
701.0260	m² PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA3						
	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA3 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med Aux						
	Carteles laterales e int. túnel		119.08			119.08	119.08
							119.080
701.0270	m² PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA2						
	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EM-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PLEO.						
	S/Med Aux						
	Carteles laterales		46.19			46.19	46.19
							46.190
701.0280	m² PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO CLASE RA3, EN PÓRTICOS O BANDEROLAS						
	PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO RETRORREFLECTANTE DE CLASE RA3, COLOCADO EN PÓRTICOS O BANDEROLAS I/ TRANSPORTE A LUGAR DE EMPLEO (SIN INCLUIR PÓRTICO O BANDEROLA).						
	S/Med Aux						
	Porticos y banderolas		173.76			173.76	173.76
							173.760
701.0310	ud BANDEROLA ACERO GALVANIZADO, DE HASTA 7,00 m DE BRAZO Y HASTA 30 m² DE CARTELERÍA (NO INCLUIDA)						
	BANDEROLA DE ACERO GALVANIZADO DE HASTA 7,00 M DE BRAZO Y/O HASTA 30 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADA (SIN INCLUIR CARTEL).						
	S/Med Aux	2				2.00	2.00
							2.000
701.0340	ud PÓRTICO ACERO GALVANIZADO, LUZ HASTA 16,00 m Y HASTA 40 m² DE CARTELERÍA (NO INCLUIDA)						
	PÓRTICO DE ACERO GALVANIZADO DE HASTA 16,00 M DE LUZ Y/O HASTA 40 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).						
	S/Med Aux	1				1.00	1.00
							1.000
701.0350	ud PÓRTICO ACERO GALVANIZADO, LUZ HASTA 17,00 m Y HASTA 60 m² DE CARTELERÍA (NO INCLUIDA)						
	PÓRTICO DE ACERO GALVANIZADO DE HASTA 17,00 M DE LUZ Y/O HASTA 60 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y AN-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).						
	S/Med Aux	2				2.00	2.00
							2.000
	SUBCAPÍTULO 06.3 BALIZAMIENTO Y DEFENSAS						
702.0020	ud CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS						
	CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS.						
	S/Med aux	758				758.00	758.00
							758.000
701.0410	ud HITO KILOMÉTRICO S-570 DE 60X60 cm DE LADO DE CLASE RA3						
	HITO KILOMÉTRICO S-570 DE 60X60 CM DE LADO, CON MATERIAL RETRORREFLECTANTE DE CLASE RA3 I/ POSTE, TORNILLERÍA Y CIMENTACIÓN, TOTALMENTE COLOCADO.						
	S/Med aux	6				6.00	6.00
							6.000
703.0010	ud BALIZA CILÍNDRICA CH-75 DE CLASE RA2						
	BALIZA CILÍNDRICA CH-75 CON MATERIAL REFLECTANTE CLASE RA2, TOTALMENTE COLOCADA.						
	S/Med aux	18				18.00	18.00
							18.000
703.0020	ud HITO DE VÉRTICE N-120 RETRORREFLECTANTE DE CLASE RA2						
	HITO DE VÉRTICE N-120 CON MATERIAL RETRORREFLECTANTE DE CLASE RA2, LASTRADO CON GRAVA O GRAVILLA, TOTALMENTE COLOCADO.						
	S/Med aux	2				2.00	2.00
							2.000
703.0050	ud HITO DE ARISTA DE H-155 CM DE TIPO II DE CLASE RA3						
	HITO DE ARISTA (DE 155 CM) TIPO II (PARA AUTOPISTA O AUTOVÍA), DE RETRORREFLECTANCIA CLASE RA3, TOTALMENTE COLOCADO, INCLUIDA CIMENTACIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med aux	287				287.00	287.00
							287.000
703.0080	ud PANEL DIRECCIONAL DE 160X40 cm, DE CLASE RA2						
	PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLACTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med aux	32				32.00	32.00
							32.000
704.0540	m BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=1,0 m O INFERIOR, ÍNDICE DE SEVERIDAD A						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux	2,560.00				2,560.00	2,560.00
							2,560.000
704.0740	m BARRERA DE HORMIGÓN PREFABRICADA SIMPLE, CLASE DE CONTENCIÓN ALTA, H2, W1 O INFERIOR, D=0,1 m O INFERIOR, ÍNDICE DE SEVERIDAD B						
	BARRERA DE HORMIGÓN PREFABRICADA CON UNA CARA ACTIVA CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1 O INFERIOR, DEFLEXIÓN DINÁMICA 0,10 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux	1,389.00				1,389.00	1,389.00
							1,389.000
704.0610	m BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ALTA, H1, W4 O INFERIOR, D=1,1 m O INFERIOR, ÍNDICE DE SEVERIDAD A						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,10 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux		2,313.00			2,313.00	2,313.00
							2,313.000
704.2630	m BARRERA DE HORMIGÓN PREFABRICADA DOBLE, CLASE DE CONTENCIÓN ALTA, H1, W4 O INFERIOR, D=0,6 m O INFERIOR, ÍNDICE DE SEVERIDAD B						
	BARRERA DE HORMIGÓN PREFABRICADA CON DOBLE CARA ACTIVA CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,60 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux		1,091.00			1,091.00	1,091.00
							1,091.000
704.1520	m BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=0,9 m O INFERIOR, ÍNDICE DE SEVERIDAD A						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux		1,484.00			1,484.00	1,484.00
							1,484.000
704.1620	m BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CONTENCIÓN ALTA, H1, W4 O INFERIOR, D=1,2 m O INFERIOR, ÍNDICE DE SEVERIDAD B,						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,20 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux		476.00			476.00	476.00
							476.000
704.3710	m BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, D=0,8 m O INFERIOR, ÍNDICE DE SEVERIDAD B						
	BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, DEFLEXIÓN DINÁMICA 0,80 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE BARRERA MÓVIL DE PASO DE MEDIANA (INCLUIR EN PPTP).						
	S/Med aux		100.00			100.00	100.00
							100.000
801.0450	m BARRERA DE PROTECCIÓN DE AVES						
	BARANDILLA DE PROTECCIÓN DE AVES, DE ACERO CON TRATAMIENTO ANTICORROSIÓN Y PINTADO, COMPUESTA POR PERFILES TUBULARES DE DIÁMETRO 50 MM DE 3 M DE ALTURA, ALTERNADOS CON DOS PERFILES TUBULARES DE 40 MM DE DIÁMETRO Y 1,10 M DE ALTURA DISPUESTOS COMO EN PLANOS I/ P.P. DE CHAPAS Y ELEMENTOS DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO.						
	S/Med aux		57.00			57.00	57.00
							57.000
704.0740N1	m BARRERA SEGURIDAD DOBLE DE HORMGIÓN EMBEBIENDO POSTE, CLASE CONTENCIÓN ALTA, H2, W3 O INFERIOR, D=0,00 m, ÍNDICE SEVERIDAD B						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	BARRERA DE SEGURIDAD DOBLE DE HORMIGÓN EMBEBIENDO POSTE, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W3 O INFERIOR, DEFLEXIÓN DINÁMICA 0,0 M, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med aux		193.00			193.00	193.00
							193.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 07 ACTUACIONES MEDIOAMBIENTALES						
	SUBCAPÍTULO 07.1 MEDIDAS PREVENTIVAS						
	APARTADO 07.1.1 JALONAMIENTO DE PROTECCIÓN						
801.0030N1	m JALONAMIENTO TEMPORAL CON SOPORTES ANGULARES METÁLICOS JALONAMIENTO TEMPORAL DE PROTECCIÓN FORMADO POR SOPORTES ANGULARES METÁLICOS DE 30 MM Y 1 M DE LONGITUD UNIDOS ENTRE SI MEDIANTE UNA CINTA DE SEÑALIZACIÓN DE OBRA Y COLOCADOS CADA 8 M.						
			5,600.00			5,600.00	5,600.00
							5,600.000
	APARTADO 07.1.2 PROTECCIÓN DEL SISTEMA HIDROLÓGICO						
	SUBAPARTADO 07.1.2.1 SISTEMA DE DECANTACIÓN FORMADO POR BALSAS						
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Balsa 1		80			80.000	
	Balsa 2		80			80.000	
	Balsa 3		33			33.000	
	Balsa 4		33			33.000	
	Balsa 5		38			38.000	264.000
							264.000
805.0010N1	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN DE SUPERFICIES LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						
	Balsa 1		131			131.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Balsa 2	131				131.00	
	Balsa 3	85.5				85.50	
	Balsa 4	85.5				85.50	
	Balsa 5	97				97.00	530.00
							530.000

801.0701N1 ud DEPÓSITO PARA FLOCULANTE FABRICADO EN PRFV

DEPÓSITO FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, CON UN DIÁMETRO DE 1,50 M Y UNA ALTURA 2,50 M, PROVISTO DE TAPA SUPERIOR PARA EVITAR EL ENSUCIAMIENTO DEL DEPÓSITO Y ASÍ ELIMINAR POSIBLES AVERÍAS EN LA BOMBA DE FLOCULANTE.

1			1.00	1.00
				1.000

801.0702N1 ud AGITADOR DE FLOCULANTE

AGITADOR DE FLOCULANTE DE 1.350 RPM CON MOTOREDUCTOR DE 0,37 KW PARA MEZCLAR EL FLOCULANTE CON EL AGUA DE RED.

1			1.00	1.00
				1.000

801.0703N1 ud BOMBA DOSIFICADORA

BOMBA DOSIFICADORA DE PISTÓN DE 0,37 KW, PARA UN CAUDAL DE 204 L/H REGULABLE DE 0% A 100% MEDIANTE REGULADOR DE CARRERA DEL PISTÓN. LA BOMBA ESTÁ PROVISTA DE PREFILTRO PARA PROTECCIÓN DE ENSUCIAMIENTO DE LAS ANTIRRETORNO DE LA MISMA.

1			1.00	1.00
				1.000

801.0704N1 ud CUADRO DE MANDO

CUADRO DE MANDO Y MANIOBRA PARA FUNCIONAMIENTO EN AUTOMÁTICO.

1			1.00	1.00
				1.000

801.0705N1 ud ESTRUCTURA METÁLICA PARA DEPÓSITO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

ESTRUCTURA METÁLICA DE SOPORTE EN ACERO AL CARBONO, PENSADA PARA ALBERGAR TANTO EL DEPÓSITO COMO LA BOMBA DE FLOCULANTE, PH-METRO Y CUADRO ELÉCTRICO.

1			1.00	1.00
				1.000

801.0706N1 ud EQUIPO DE CORRECCIÓN DE PH

EQUIPO DE CORRECCIÓN DE PH., COMPUESTO POR: PARRILLA DE 6 DIFUSORES DE BURBUJA FINA PARA DOSIFICACIÓN DE GASES, BY-PASS DE ENTRADA COMPUESTO DE 3 VÁLVULAS MANUALES DE ½" DE BOLA EN AISI 316, ELECTROVÁLVULA DE ACCIONAMIENTO DIRECTO COMANDADA DESDE EL ARMARIO ELÉCTRICO. INSTALACIÓN DE TUBERÍA DE ½" HASTA EL TANQUE DE CO2 O PACK DE BOTELLAS, NO INCLUIDO EL MANOREDUCTOR (LE APORTA EL SUMINISTRADOR DE CO2) Y MEDIDOR DE PH PARA MEDIR EN BALSA DE CORRECCIÓN CON SONDA DE INMERSIÓN Y SALIDA ELECTRÓNICA HASTA PLC DE CONTROL, PARA LA OPTIMIZACIÓN DEL PRODUCTO.

1			1.00	1.00
				1.000

801.0707N1 ud BOMBEO DESDE DEPARTAMENTO DE AGUAS MEDIANTE BOMBA SUMERGIBLE

BOMBEO DESDE DEPARTAMENTO DE AGUAS AJUSTADAS HACIA DEPARTAMENTO DE ENTRADA, CONSTITUIDO POR UNA BOMBA SUMERGIBLE, DE 2,2 KW DE POTENCIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.

1			1.00	1.00
				1.000

801.0708N1 ud ELECTROVÁLVULA

ELECTROVÁLVULA PARA CONTROL DE ENTRADA DE AGUAS DESAJUSTADAS DESDE DEPARTAMENTO DE AJUSTE DE PH HACIA DEPARTAMENTO DE AGUAS DESAJUSTADAS

1			1.00	1.00
				1.000

801.0901N1 ud EQUIPO DE MEDICIÓN DE TURBIDEZ

EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FOR-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASONDAS.						
		1				1.00	1.00
							1.000
801.0902N1	ud CAUDALÍMETRO						
	CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO						
		1				1.00	1.00
							1.000
801.0903N1	ud REGISTRADOR DE DATOS						
	REGISTRADOR DE DATOS, DE 4 CANALES.						
		1				1.00	1.00
							1.000

SUBAPARTADO 07.1.2.2 SISTEMA DE DECANTACIÓN FORMADO POR DEPURADORA

320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km						
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Balsa 1	80				80.000	
	Balsa 2	80				80.000	
	Balsa 3	33				33.000	193.000
							193.000
805.0010N1	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN DE SUPERFICIES						
	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Balsa 1	131				131.00	
	Balsa 2	131				131.00	
	Balsa 3	85.5				85.50	347.50
							347.500
801.0801N1	ud BOMBEO DE CABECERA FORMADO POR BOMBAS SUMERGIBLES						
	BOMBEO CABECERA FORMADO POR DOS BOMBAS SUMERGIBLES PARA BOMBEO DEL AGUA RESIDUAL HACIA LA FASE DE DECANTACIÓN, CON RODETE DE TIPO VORTEX RETRASADO EN HIERRO FUNDIDO, CON UN PASO LIBRE ESFÉRICO DE 50 MM, DE 2,2 KW DE POTENCIA UNITARIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.						
		1				1.00	1.00
							1.000
801.0802N1	ud DEPÓSITO DE PREPARACIÓN DE FLOCULANTES CON AGITADOR EN PRFV						
	DEPÓSITO DE PREPARACIÓN DE FLOCULANTE FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, EQUIPADO CON UN AGITADOR PARA LA PERFECTA DILUCIÓN DEL FLOCULANTE, ACCIONADO MEDIANTE UN MOTOR REDUCTOR ACCIONADO POR UN TEMPORIZADOR.						
		1				1.00	1.00
							1.000
801.0803N1	ud EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE						
	EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE DESDE DEPÓSITO DE PREPARACIÓN, COMPUESTO POR DOS BOMBAS DOSIFICADORAS DE TIPO PISTÓN, CON REGULACIÓN MANUAL (0-100%) Y MOTOR TRIFÁSICO DE 0,37 KW						
		1				1.00	1.00
							1.000
801.0804N1	ud DECANTADOR CILÍNDRICO						
	DECANTADOR CILÍNDRICO, FABRICADO EN ACERO AL CARBONO, DE 3,50 METROS DE DIÁMETRO Y 6,00 METROS DE ALTURA, PROVISTO DE CAMPANA INTERIOR DE TRANQUILIZACIÓN DE FANGOS, CONO DE DEYECCIÓN, ALIVIADERO PARA SALIDA DEL VERTIDO. TAMBIÉN SE INCLUYE UNA ESTRUCTURA METÁLICA DE SOPORTE, ESCALERA DE GATO Y BARANDILLA DE SEGURIDAD.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2				2.00	2.00
							2.000
801.0805N1	ud DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2						
	DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE SECCIÓN CIRCULAR, DE 3,0 M DE DIÁMETRO Y 4,50 METROS DE ALTURA, CON ESTRUCTURA METÁLICA DE SOPORTE, PROVISTO DE UN SISTEMA DE MEZCLA COMPUESTO POR UNA DRAINEX 200. EL DEPÓSITO UENTA CON UNA PARRILLA DE DIFUSORES INSTALADA EN SU FONDO PARA LA INYECCIÓN DE CO2. TAMBIÉN INCLUYE UN PH-METRO DIGITAL QUE CONTROLA LA APERTURA DE UNA ELECTROVÁLVULA QUE REGULA LA ENTRADA DE CO2 A LOS DIFUSORES. LA INSTALACIÓN QUEDA PREPARADA PARA QUE LA INYECCIÓN DE CO2 PUEDA SER CONECTADA DIRECTAMENTE.						
		1				1.00	1.00
							1.000
801.0806N1	ud AUTOMATIZACIÓN DE EQUIPOS INSTALADOS DE PLANTA						
	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.						
		1				1.00	1.00
							1.000
801.0807N1	ud MONTAJE MECÁNICO DE PLANTA						
	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS						
		1				1.00	1.00
							1.000
801.0808N1	ud ACONDICIONADOR DE FANGOS						
	ACONDICIONADOR DE FANGOS, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE 1,00 M DE DIÁMETRO Y 1,50 METROS DE ALTURA, PROVISTO DE UN SISTEMA DE MEDIDORES DE NIVEL PARA LA AUTOMATIZACIÓN DEL BOMBEO DE ALIMENTACIÓN AL FILTRO PRENSA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
801.0809N1	ud BOMBA DE FANGOS DE DOBLE MEMBRANA						
	BOMBA DE DOBLE MEMBRANA ACCIONADA POR AIRE PARA ALIMENTAR DE FANGOS AL FILTRO PRENSA, DE 2" CON EL CUERPO EN FUNDICIÓN Y MEMBRANAS EN NEOPRENO.						
		2				2.00	2.00
							2.000
801.0810N1	ud SISTEMA DE DESHIDRATACIÓN DE FANGOS						
	SISTEMA DE DESHIDRATACIÓN DE FANGOS, CONSISTENTE EN UN FILTRO PRENSA DE DESCARGA DE TORTA AUTOMÁTICA, DE BAJA PRESIÓN, DE 35 PLACAS Y TELAS FILTRANTES DE 800 X 800 MM., CON UNA CAPACIDAD DE 507 LITROS. INCLUYENDO ESTRUCTURA METÁLICA DE SOPORTE.						
		1				1.00	1.00
							1.000
801.0811N1	ud AUTOMATIZACIÓN DE EQUIPOS INSTALADOS EN LINEA DE FANGOS						
	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.						
		1				1.00	1.00
							1.000
801.0812N1	ud MONTAJE MECÁNICO DE LINEA DE FANGOS						
	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS.						
		1				1.00	1.00
							1.000
801.0901N1	ud EQUIPO DE MEDICIÓN DE TURBIDEZ						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FORMADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASONDAS.						
		1				1.00	1.00
							1.000
801.0902N1	ud CAUDALÍMETRO						
	CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO						
		1				1.00	1.00
							1.000
801.0903N1	ud REGISTRADOR DE DATOS						
	REGISTRADOR DE DATOS, DE 4 CANALES.						
		1				1.00	1.00
							1.000
	APARTADO 07.1.3 PROTECCIÓN DEL PATRIMONIO ARQUEOLÓGICO						
801.0100N2	ud SONDEOS ARQUEOLÓGICOS MANUALES E INFORME						
	SONDEOS ARQUEOLÓGICOS MANUALES EN LA TRAZA E INFORME.						
		1				1.000	1.000
							1.000
801.0613N1	ud SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO						
	SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO, CONSISTENTE EN SEÑAL, I/ POSTE METÁLICO GALVANIZADO DE SUSTENTACIÓN Y CIMENTACIÓN COLOCADO						
		11				11.00	11.00
							11.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 07.1.4 PROTECCIÓN DE LA FAUNA Y VEGETACIÓN						
801.0540N1	ud PUERTA DE ESCAPE PARA MAMÍFEROS						
	PUERTA DE ESCAPE PARA MAMÍFEROS GRANDES DESDE EL INTERIOR DE LAOBRA VALLADA, MEDIANTE MALLA DE ACERO DE SIMPLE TORSIÓN, CON PERFILES YREFUERZOS DE TUBOS DE ACERO GALVANIZADO, COLOCADA.						
		5				5.000	5.000
							5.000
801.0550N1	ud SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES						
	SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES DESDE EL INTERIOR DE LA OBRA VALLADA, INSTALADA EN VALLA DE CERRAMIENTO.						
		3				3.00	3.00
							3.000
801.0615N1	m² PROTECTORES DE ESPECIES ARBÓREAS						
	PROTECCIÓN DE ESPECIES ARBÓREAS CERCANAS AL TRAZADO MEDIANTE PERÍMETRO EMPALIZADO DE SEIS TABLONES POR PIE						
		90.000				90.000	90.000
							90.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 07.2 MEDIDAS CORRECTORAS						
	APARTADO 07.2.1 INTEGRACIÓN PAISAJÍSTICA						
801.0050	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN SUPERFICIES HORIZONTALES						
	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA, EN SUPERFICIES HORIZONTALES.						
			7,616.14			7,616.14	7,616.14
							7,616.140
801.0060	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES						
	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.						
			6,925.47			6,925.47	6,925.47
							6,925.470
801.0070	m² HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS						
	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.						
			23,084.90			23,084.90	
			18,725.85			18,725.85	41,810.75
							41,810.750
801.0073N1	m² SUMINISTRO Y PROYECCIÓN DE HIDROMULCH						
	SUMINISTRO Y PROYECCIÓN DE HIDROMULCH EN DOSIS DE 175-230 G/M2 COMPUESTO POR MEZCLA HOMOGÉNEA DE FIBRAS VEGETALES DE MADERA LARGA, ESTABILIZANTE, SEMILLAS, FERTILIZANTES Y DEMÁS ADITIVOS.						
			45,727.300			45,727.300	45,727.300
							45,727.300
801.0230	ud PLANTACIÓN DE THYMUS VULGARIS (TOMILLO)						
	EJECUCIÓN DE PLANTACIÓN THYMUS VULGARIS (TOMILLO) DE 1/2 SAVIAS EN ALVEOLO FORESTAL DE 300 CC, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCOR-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	QUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		399				399.00	399.00
							399.000
801.0360N18	ud PLANTACIÓN DE ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 cm						
	EJECUCIÓN DE PLANTACIÓN ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		2,569				2,569.000	2,569.000
							2,569.000
801.0360N24	ud PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 cm						
	EJECUCIÓN DE PLANTACIÓN PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		2,569				2,569.000	2,569.000
							2,569.000
801.0360N26	ud PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 cm						
	EJECUCIÓN DE PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		399				399.000	399.000
							399.000
801.0360N27	ud PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 cm						
	EJECUCIÓN DE PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		445				445.000	445.000
							445.000
801.0360N34	ud PLANTACIÓN DE ILEX AQUIFOLIUM (ACEBO) DE 30-40 cm						
	EJECUCIÓN DE PLANTACIÓN ILEX AQUIFOLIUM (ACEBO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		2,388				2,388.000	2,388.000
							2,388.000
801.0360N35	ud PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 cm						
	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		3				3.000	3.000
							3.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
801.0360N36	ud PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 cm						
	EJECUCIÓN DE PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		20				20.000	20.000
							20.000
801.0360N37	ud PLANTACIÓN DE CONÍFERAS ENANAS (JUNIPERUS, THUYA, PICEA, PINUS, ETC...) DE 20-40 cm						
	EJECUCIÓN DE PLANTACIÓN DE CONIFERAS ENANAS DE LOS GÉNEROS JUNIPERUS, THUYA, PICEA, PINUS, ETC, ..., SEGÚN DISPONIBILIDAD, DE 20-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		26				26.000	26.000
							26.000
801.0360N38	ud PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 cm						
	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.						
		1,923				1,923.000	1,923.000
							1,923.000
801.0570N1	m² ESCARIFICADO DEL TERRENO						
	ESCARIFICADO CON MÁQUINA ESCARIFICADORA A MOTOR, INCLUSO RASTRILLADO DE LOS PRODUCTOS DE LA ES-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CARIFICACIÓN Y RETIRADA DE SOBRANTES.						
			13,038.91			13,038.91	13,038.91
							13,038.910
	APARTADO 07.2.2 MANTENIMIENTO DE SIEMBRAS Y PLANTACIONES						
801.0380	ud RIEGO DE ARBUSTOS						
	RIEGO DE ARBUSTOS MEDIANTE CAMIÓN CISTERNA 8000 L I/ CARGA Y TRANSPORTE DESDE PUNTO DE ABASTECIMIENTO HASTA EL LUGAR DE USO.						
			10,832			10,832.00	10,832.00
							10,832.000
801.0410N1	ud APORTE Y EXTENDIDO MANUAL DE ABONO/ARBUSTO						
	APORTE Y EXTENDIDO MANUAL DE ABONO MINERAL EN ALCORQUE DE ARBUSTO O MATORRAL BAJO, TIPO NKP 15-15-15, A UNA DOSIS DE 60 G/UD, I/ CARGA Y TRANSPORTE.						
			10,832			10,832.000	10,832.000
							10,832.000
801.0423N1	m² SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA SIN REGOGIDA						
	ÁREA DE SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA, MEDIANTE PASE DE SEGADORA DE 1,4 M DE ANCHURA DE CORTE ACOPLADA A LA TOMA DE FUERZA DE TRACTOR JARDINERO DE 60 CV, I/ EL CORTE CON MOTOGUADAÑA DE HILOS DE LAS HERBÁCEAS QUE PROSPERAN EN LOS ACORQUES DE LOS ARBOLES, LOS BORDES DE LOS MACIZOS DE ARBUSTOS UBICADOS EN LAS PRADERA Y CUALQUIER OTRO ELEMENTO U EQUIPAMIENTO. MEDIDA LA SUPERFICIE REAL EJECUTADA SEGUN DEFINICIÓN DE PROYECTO.						
			56,177.000			56,177.000	56,177.000
							56,177.000
801.0581N1	m² ESCARDA MANUAL DE ÁRBOLES / ARBUSTOS						
	ESCARDA DE ÁRBOLES Y MACIZOS ARBUSTIVOS CON ACOLCHADO ORGÁNICO, CONSISTENTE EN ARRANQUE, ENTRECAVA Y ELIMINACIÓN DE MALAS HIERBAS EN ÁRBOLES Y ARBUSTOS, I/ REGULARIZACIÓN FINAL DE LAS SUPERFICIE, RECOGIDA DE RESTOS Y TRASNPORTE A ZONA DE COM-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	POSTAJE. MEDIDA LA SUPERFICIE REALEMENTE EJECUTADA SEGÚN DEFINICIONES DE PROYECTO.						
			36,423.810			36,423.810	36,423.810
							36,423.810
	APARTADO 07.2.3 PANTALLAS ACÚSTICAS						
	SUBAPARTADO 07.2.3.1 PANTALLA ACÚSTICA 1.8 MD						
801.0100	m² PANEL METÁLICO ACÚSTICO FONOABSORBENTE						
	COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.						
		39.00		4.00		156.00	156.00
							156.000
620.0043N1	kg ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE						
	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.						
		14	4.000	61.300		3,432.800	
	placas +15%		0.150	3,432.800		514.920	3,947.720
							3,947.720
671.0030	m PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD						
	PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.						
		14	11.00			154.00	154.00
							154.000
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		14	11.00	0.28		43.12	43.12
							43.120
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		14	12.00	12.00	1.58	3,185.28	
		14	74.00	1.57	0.62	1,008.44	4,193.72
							4,193.720
	SUBAPARTADO 07.2.3.2 PANTALLA ACÚSTICA 1.9 MD						
801.0100	m² PANEL METÁLICO ACÚSTICO FONOABSORBENTE						
	COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.						
			36.00	4.00		144.00	144.00
							144.000
620.0043N1	kg ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE						
	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.						
		13	4.000	61.300		3,187.600	
	Placas +15%		0.150	3,187.600		478.140	3,665.740
							3,665.740
671.0030	m PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD						
	PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med Aux	13	7.50			97.50	97.50
							97.500
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
		13	7.50		0.28	27.30	27.30
							27.300
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		13	8.00	12.00	1.58	1,971.84	
		13	50.00	1.57	0.62	632.71	2,604.55
							2,604.550
	SUBAPARTADO 07.2.3.3 PANTALLA ACÚSTICA 4.6 MD						
801.0100	m² PANEL METÁLICO ACÚSTICO FONOABSORBENTE						
	COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.						
			18.00		5.50	99.00	
			56.00		5.00	280.00	379.00
							379.000
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Zapata		74.00	2.50	1.00	185.00	185.00
							185.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Zapata		74.00		0.75	55.50	
		2	2.00		0.75	3.00	58.50
							58.500
620.0043N1	kg ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE						
	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.						
		6	5.500		61.300	2,022.900	
		16	5.000		61.300	4,904.000	6,926.900
							6,926.900
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
			18.00	2.00	0.75	27.00	
			56.00	2.00	0.75	84.00	
	Plintos	22	0.60	0.60	0.40	3.17	114.17
							114.170
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapata		74.00		75.00	5,550.00	
	Plintos	22	2.10	3.00	1.58	218.99	5,768.99
							5,768.990
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
			18.00	2.00	0.10	3.60	
			56.00	2.00	0.10	11.20	14.80
							14.800

SUBCAPÍTULO 07.3 ESTUDIO DE GESTIÓN DE RESIDUOS

950.0010	t CLASIFICACIÓN Y RECOGIDA SELECTIVA						
	CLASIFICACIÓN Y RECOGIDA SELECTIVA DE RESIDUOS, EXCEPTO TIERRAS Y PIEDRAS DE EXCAVACIÓN, MEDIANTE MEDIOS MANUALES Y MECÁNICOS DE LOS RESIDUOS Y SU DEPÓSITO EN LA ZONA PRINCIPAL DE ALMACENAMIENTO DE RESIDUOS DE LA OBRA.						
	S/Med aux		25,832.21			25,832.21	25,832.21
							25,832.210
950.0020	t GESTIÓN DE RNP NO PÉTREOS						
	CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSO - RNP- DE CARÁCTER NO PÉTREO (CARTÓN-PAPEL, MADERA, VIDRIO, PLÁSTICOS Y METALES INCLUIDOS ENVASES Y EMBALAJES DE ESTOS MATERIALES ASÍ COMO BIODEGRADABLES DEL DESBROCE) A PLANTA DE VALORIZACIÓN AUTORIZADA POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA, INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.						
	S/Med aux		18,157.52			18,157.52	18,157.52
							18,157.520

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
950.0030	t GESTIÓN DE RNP PÉTREOS						
	CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSOS -RNP- DE CARÁCTER PÉTREO (EXCEPTO TIERRAS Y PIEDRAS) CONSTITUIDOS POR HORMIGÓN, LADRILLOS, TEJAS Y MATERIALES CERÁMICOS (O MEZCLA DE ÉSTOS), YESO Y/O MEZCLAS BITUMINOSAS A PLANTA DE VALORIZACIÓN POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES BASCULANTES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.						
	S/Med aux	7,674.69				7,674.69	7,674.69
							7,674.690
950.0080N1	t CANON GESTIÓN DE TIERRAS						
	CANON DE ENTRADA A PLANTA DE GESTIÓN DE RESIDUOS DE TIERRAS. NO SE INCLUYE EL TRANSPORTE.						
	S/Med auxiliar (en m3)						
	Densidad: 2 ton/m3						
	EXC_SUELO_1	47,151.52	2.00			94,303.04	
	EXC_SUELO_3	261,238.08	2.00			522,476.16	
	EXC_ROCA_1	753,430.71	2.00			1,506,861.42	
	EXC_ROCA_2	956,132.44	2.00			1,912,264.88	
	Tierra Vegetal	66,873.97	2.00			133,747.94	4,169,653.44
							4,169,653.440

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 08 OBRAS COMPLEMENTARIAS						
	SUBCAPÍTULO 08.1 CERRAMIENTO						
915.0010	m CERRAMIENTO COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN						
	CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS						
	Según mad auxiliar	1	5,015.51			5,015.51	5,015.51
							5,015.510
915.0020	ud PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA						
	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.						
	1+860	1				1.00	
	2+030	1				1.00	
	2+130	1				1.00	
	2+410	1				1.00	
	2+500	1				1.00	
	3+370	1				1.00	
	3+430	1				1.00	
	3+760	1				1.00	
	4+600	1				1.00	9.00
							9.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 08.2 DESVÍOS PROVISIONALES						
	APARTADO 08.2.1 DESVÍOS DE CARRETERAS						
	SUBAPARTADO 08.2.1.1 FIRMES						
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE						
	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	N-525		500.95	7.00		3,506.65	
	SOLUCION N-525 DESVIO 4		494.42	7.00		3,460.94	
	SOLUCION N-525 DESVIO 3		519.08	7.00		3,633.56	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		63.87	7.00		447.09	11,048.24
							11,048.240
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	S/Med aux		0.10	3,115.90		311.59	311.59
							311.590
211.0020	t BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70						
	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70						
	S/Med aux						
	MBC AC22 bin S						
	SOLUCION N-525 DESVIO 4		19.60			19.60	
	SOLUCION N-525 DESVIO 3		20.58			20.58	
	SOLUCION N-525 SITUACION FINAL		25.59			25.59	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		2.87			2.87	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MBC AC32 base G						
	SOLUCION N-525 SITUACION FINAL		35.51			35.51	
	MBC AC16 surf S						
	SOLUCION N-525 DESVIO 4		22.14			22.14	
	SOLUCION N-525 DESVIO 3		23.24			23.24	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		3.25			3.25	152.78
							152.780
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	S/Med aux						
	SOLUCION N-525 SITUACION FINAL		16.12			16.12	16.12
							16.120
510.0010	m³ ZAHORRA						
	ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.						
	S/Med aux						
	DESVIO PROVISIONAL EN P.K. 3+300		739.50			739.50	739.50
							739.500
513.0010	m³ SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	S/Med aux						
	SOLUCION N-525 DESVIO 4		927.90			927.90	
	SOLUCION N-525 DESVIO 3		972.10			972.10	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SOLUCION N-525 SITUACION FINAL		1,079.90			1,079.90	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		136.00			136.00	3,115.90
							3,115.900

530.0010 t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO

ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.

S/Med aux						
SOLUCION N-525 DESVIO 4	39.17			39.17		
SOLUCION N-525 DESVIO 3	40.98			40.98		
SOLUCION N-525 SITUACION FINAL	49.58			49.58		
SOLUCION N-525 DESVIO 3 / INTERSECCION	5.65			5.65		
DESVIO PROVISIONAL EN P.K. 3+300	23.44			23.44	158.82	
						158.820

530.0010N1 t ÁRIDO PARA DOBLE TRATAMIENTO SUPERIFICIAL

ÁRIDO DE CANTERA PARA RIEGOS CON GRAVILLA, I/ LA EXTENSIÓN, TOTALMENTE TERMINADO.

S/Med aux						
DESVIO PROVISIONAL EN P.K. 3+300	1.8	500.392	5.000	0.015	67.553	67.553
						67.553

530.0020 t EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN

EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.

S/Med aux						
DESVIO PROVISIONAL EN P.K. 3+300	3.91			3.91	3.91	
						3.910

531.0020 t EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.

S/Med aux						
SOLUCION N-525 DESVIO 4	7.48			7.48		
SOLUCION N-525 DESVIO 3	7.84			7.84		
SOLUCION N-525 SITUACION FINAL	9.63			9.63		
SOLUCION N-525 DESVIO 3 / INTERSECCION	1.09			1.09	26.04	
						26.040

531.0040 t EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA

EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.

S/Med aux						
SOLUCION N-525 SITUACION FINAL	4.15			4.15	4.15	
						4.150

533.0020 m² DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG

DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.

S/Med aux						
DESVIO PROVISIONAL EN P.K. 3+300	500.39	5.00			2,501.95	2,501.95
						2,501.950

542.0010 t MBC TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL

MEZCLA BITUMINOSA EN CALIENTE TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL, TOTALMENTE EXTENDIDA Y COMPACTADA.

S/Med aux

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SOLUCION N-525 DESVIO 4		492.02			492.02	
	SOLUCION N-525 DESVIO 3		516.48			516.48	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		72.12			72.12	1,080.62
							1,080.620
542.0050	t MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						
	S/Med aux						
	SOLUCION N-525 DESVIO 4		490.03			490.03	
	SOLUCION N-525 DESVIO 3		514.39			514.39	
	SOLUCION N-525 SITUACION FINAL		639.85			639.85	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		71.83			71.83	1,716.10
							1,716.100
542.0100	t MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						
	S/Med aux						
	SOLUCION N-525 SITUACION FINAL		887.84			887.84	887.84
							887.840
543.0020	m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.						
	S/Med aux						
	SOLUCION N-525 SITUACION FINAL		5,160.00			5,160.00	5,160.00
							5,160.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
542.0110	t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.						
	S/Med aux						
	MBC Discontinua BBTM 11B						
	SOLUCION N-525 SITUACION FINAL		19.35			19.35	
	MBC AC22 bin S						
	SOLUCION N-525 DESVIO 4		21.56			21.56	
	SOLUCION N-525 DESVIO 3		22.63			22.63	
	SOLUCION N-525 SITUACION FINAL		28.15			28.15	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		3.16			3.16	
	MBC AC32 base G						
	SOLUCION N-525 SITUACION FINAL		35.51			35.51	
	MBC AC16 surf S						
	SOLUCION N-525 DESVIO 4		26.57			26.57	
	SOLUCION N-525 DESVIO 3		27.89			27.89	
	SOLUCION N-525 DESVIO 3 / INTERSECCION		3.89			3.89	188.71
							188.710

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 08.2.1.2. SEÑALIZACIÓN Y DEFENSAS						
700.0100	m MARCA VIAL AMARILLA REFLECTANTE, TIPO ACRÍLICA, ANCHO 10 cm						
	MARCA VIAL TIPO II (RW) DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, DE 10 CM DE ANCHO I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE, PREMARCAJE Y ELIMINACIÓN POSTERIOR (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med Aux		11,200.00			11,200.00	11,200.00
							11,200.000
700.0130N1	m² MARCA VIAL AMARILLA REFLECTANTE, TIPO ACRÍLICA, EN SÍMBOLOS						
	MARCA VIAL DE TIPO II (RW), DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, EN SÍMBOLOS Y CEBREADOS I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA SUPERFICIE REALMENTE PINTADA).						
	S/Med Aux	285				285.00	285.00
							285.000
701.0030N1	ud SEÑAL TRIANGULAR DE 135 cm DE LADO, FONDO AMARILLO						
	SEÑAL TRIANGULAR REFLECTANTE, DE LADO 135 CM, FONDO AMARILLO (PARA DESVÍOS DE OBRA) CON BASE AUTOPORTANTE, INCLUSO COLOCACIÓN, LASTRADO Y RETIRADA FINAL.						
	S/Med Aux	14				14.000	14.000
							14.000
701.0061N1	ud SEÑAL CIRCULAR DE 120 cm DIÁMETRO, FONDO AMARILLO						
	SEÑAL CIRCULAR REFLECTANTE DE 120 CM DE DIÁMETRO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.						
	S/Med Aux	24				24.000	24.000
							24.000
701.0190N1	ud SEÑAL RECTANGULAR DE 90X135 cm, FONDO AMARILLO						
	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 1,35 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med Aux	2				2.000	2.000
							2.000
701.0110N1	ud SEÑAL OCTOGONAL DE DOBLE APOTEMA DE 90 cm, FONDO AMARILLO						
	SEÑAL REFLEXIVA OCTOGONAL DE DOBLE APOTEMA DE 90CM, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.						
	S/Med Aux	1				1.000	1.000
							1.000
701.0195N1	ud SEÑAL RECTANGULAR DE 90X30 cm, FONDO AMARILLO						
	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 0,30 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.						
	S/Med Aux	3				3.000	3.000
							3.000
701.0130N1	ud SEÑAL CUADRADA DE 120 cm DE LADO, FONDO AMARILLO						
	SEÑAL CUADRADA REFLECTANTE DE 120 CM DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.						
	S/Med Aux	2				2.000	2.000
							2.000
704.0140N1	m BARRERA DESMONTABLE PREFABRICADA						
	BARRERA DE OBRA CONTINUA A DOS CARAS DE MATERIAL PLÁSTICO Y 80 CM DE ALTURA, EN MÓDULOS ROJO-BLANCO, INCLUSO CAPTAFAROS INCORPORADOS, UNIDOS MEDIANTE FIJACIONES MACHIHEMBRADAS, INCLUSO RETIRADA FINAL.						
	S/Med Aux	748.500				748.500	748.500
							748.500
703.0110	ud PANEL DIRECCIONAL DE 80X40 cm, DE CLASE RA2						
	PANEL DIRECCIONAL DE 80X40 CM Y RETRORREFLECTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EM-						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PLEO.						
	S/Med Aux	12				12.00	12.00
							12.000
703.0150N1	ud BALIZA LUMINOSA TIPO TL-2 CON CÉLULA FOTOELÉCTRICA						
	BALIZA LUMINOSA DE BRILLO INTERMITENTE TIPO TL-2 CON CÉLULA FOTOELÉCTRICA DE ACTIVACIÓN, BATERÍA DE ALIMENTACIÓN, INCLUSO INSTALACIÓN Y RETIRADA FINAL.						
	S/Med Aux	12				12.00	12.00
							12.000
701.0240	m² CARTEL DE CHAPA DE ACERO GALVANIZADO, RA3						
	CARTEL DE CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE DE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/Med aux						
	F-6-OBRA	1	2.70			2.70	
	F-7-OBRA	6	4.94			29.64	32.34
							32.340
701.0220	m² CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA3						
	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	S/ Mediciones auxiliares						
	F-1-OBRA	0.238				0.24	
	F-2-OBRA	0.238				0.24	
	F-3-OBRA	0.943				0.94	
	F-4-OBRA	0.363				0.36	
	F-5-OBRA	1.073				1.07	2.85
							2.850
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1)						
	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	DESVÍO PROVISIONAL 4 N-525	200.00				200.00	
	DESVÍO PROVISIONAL CAMINO 3+430	120.00				120.00	320.00
							320.000
700.0020	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm						
	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med Aux	1,037.17				1,037.17	1,037.17
							1,037.170
700.0035N1	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 30 cm						
	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	S/Med Aux	30.250				30.250	30.250
							30.250
700.0145N1	m² MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE						
	MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.						
	S/Med Aux	83.23				83.230	83.230
							83.230
301.0125N1	ud LEVANTAMIENTO DE SEÑALES DE TRÁFICO						
	LEVANTAMIENTO DE SEÑAL DE TRÁFICO I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	DISTANCIA DE 60 KM.						
	S/Med Aux	37				37.00	37.00
							37.000
701.0035N1	ud POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO						
	POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE LA PLACA DE LA SEÑAL						
	S/Med Aux	21				21.00	21.00
							21.000
701.0225N1	ud POSTES GALVANIZADOS PARA CARTEL DE TRÁFICO TIPO FLECHA						
	POSTES GALVANIZADOS PARA CARTEL TIPO FLECHA, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE EL CARTEL DEL CHAPA						
	S/Med Aux	16				16.00	16.00
							16.000
301.0130	m LEVANTAMIENTO DE BARRERA METÁLICA BIONDA						
	LEVANTAMIENTO DE BARRERA METÁLICA BIONDA I/ DESMONTAJE, ARRANQUE DE POSTES, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	S/Med Aux		234.00			234.00	
			56.00			56.00	290.00
							290.000
704.0540	m BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=1,0 m O INFERIOR, ÍNDICE DE SEVERIDAD A						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med Aux		234.00			234.00	234.00
							234.000
704.1520	m BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=0,9 m O INFERIOR, ÍNDICE DE SEVERIDAD A						
	BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	S/Med Aux		56.00			56.00	56.00
							56.000
	SUBAPARTADO 08.2.1.3 DEMOLICIÓN DE DESVÍOS PROVISIONALES						
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km						
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Demolición de desvíos						
	DESVÍO 4	6,040.4				6,040.400	
	DESVÍO 3	548.9				548.900	
	DESVÍO 4 INTERSECCIÓN	3.9				3.900	
	DESVÍO CAMINO 3+300	6,876.3				6,876.300	13,469.500
							13,469.500
801.0060	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES						
	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.						
	Rest. med. de demolición desvío provisional						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Desvío Provisional camino 3+300	0.3	270.00	6.00		486.00	
	Desvío Provisional 3 N-525	0.3	150.00	10.00		450.00	
	Desvío Provisional 4 n-525	0.3	130.00	10.00		390.00	1,326.00
							1,326.000

APARTADO 08.2.2 DESVÍO DE FERROCARRIL

301.0050 m³ DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA

DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

	Demolición puente antiguo	375				375.00	375.00
							375.000

1000.0001N1 m RIPADO DE VÍA

RIPADO DE VÍA HASTA 2 M COMPRENDIENDO CORTES DE CARRIL, BATEO Y NIVELACIÓN, INCLUSO HERRAMIENTAS Y MEDIOS AUXILIARES QUE SE PRECISEN, ASÍ COMO LOS MEDIOS DE SEGURIDAD Y PROTECCIÓN REGLAMENTARIOS.

Ripado desvío P.K. 0+127			
Ripado a situación provisional	200.00	200.00	
Ripado a situación definitiva	200.00	200.00	
Ripado desvío P.K. 0+700			
Ripado a situación provisional	150.00	150.00	
Ripado a situación definitiva	150.00	150.00	700.00
			700.000

1000.0002N1 m SUMINISTRO Y MONTAJE DE VÍA UIC-54

SUMINISTRO Y MONTAJE DE VÍA , CON CARRIL NUEVO TIPO UIC-54, TRAVIESA NUEVA DE HORMIGÓN CADA 0,6 M CON SUJECIÓN Y ACCESORIOS NECESARIOS, RECTIFICACIÓN Y BATEO NECESARIO HASTA CUMPLIR LAS TOLERANCIAS CORRESPONDIENTES A LA PRIMERA NIVELACIÓN, PERFILADO DE BANQUETAS, LIMPIEZA Y ENRASADO DE PASEOS Y ENTREVÍA HASTA CONSEGUIR LA SECCIÓN TIPO DEFINIDA EN PLANOS.

Desvío FC	573.00	573.00	
- Ripado	-350.00	-350.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Reposición definitiva		132.00			132.00	355.00
							355.000

1000.0003N1 m³ BALASTO PROCEDENTE DE CANTERA TOLVA

BALASTO DE PIEDRA SILÍCEA TIPO 1 EN TOLVA PROCEDENTE DE CANTERA, SUMINISTRADO, TRANSPORTADO, EXTENDIDO, HUMIDIFICADO, COMPACTADO Y NIVELACIÓN Y ACABADO DE LA SUPERFICIE.

Desvío provisional					
S/Med Aux	1,727.40			1,727.40	
Reposición definitiva	132.00	2.50		330.00	2,057.40
					2,057.400

1000.0004N1 m³ CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA

CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA I/ EXCAVACIÓN, CARGA Y TRANSPORTE DE MATERIAL HASTA UNA DISTANCIA DE 30 KM, SUMINISTRO DE MATERIAL ASÍ COMO EL CANON Y LOS PERMISOS NECESARIOS, EXTENDIDO, HUMIDIFICACIÓN Y COMPACTACIÓN DEL MATERIAL, NIVELACIÓN Y ACABADO DE LA SUPERFICIE, EJECUCIÓN DE TRAMO DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.

S/Med Aux	3,181.90		3,181.90	3,181.90
				3,181.900

1000.0005N1 m³ SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA

SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA I/ FABRICACIÓN, SUMINISTRO HASTA UNA DISTANCIA DE 20 KM, MAQUINARIA, EXTENDIDO, HUMIDIFICACIÓN, COMPACTACIÓN, NIVELACIÓN, ACABADO DE SUPERFICIE, EJECUCIÓN DE TRAMOS DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.

Desvío provisional					
S/Med Aux	1,392.00			1,392.00	
Reposición definitiva	132.00	1.80		237.60	1,629.60
					1,629.600

1000.0007N1 m LEVANTE DE VÍA

LEVANTE DE VÍA DE CUALQUIER TIPO, PREVIAMENTE DESGUARNECIDA O NO, CON CARRILES Y FIJACIÓN DE CUAL-

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	QUIER TIPO CON O SIN DESLIZANTE, COMPRENDIENDO LA RETIRADA DE CARRILES, TRAVIESAS Y PEQUEÑO MATERIAL, INCLUSO BALASTO, ACOPIO Y CLASIFICACIÓN DE LOS MISMOS, CARGA SOBRE VAGÓN, CLASIFICACIÓN EN PARQUE DEL MATERIAL APROVECHABLE Y TRANSPORTE Y DESCARGA DE PRODUCTOS SOBRANTES EN VERTEDERO Y COMPENSACIÓN POR LA OBLIGACIÓN DE PARALIZACIÓN DE EQUIPOS POR EL PASO DE TRENES.						
	Levante de vía actual		132.00			132.00	
	Levante de desvío provisional						
	Desvío FC		573.00			573.00	
	- Ripado		-350.00			-350.00	355.00
							355.000
1000.0008N1	m REPLANTEO DE VÍA ÚNICA						
	REPLANTEO DE VÍA DOBLE O ÚNICA, INCLUIDOS TODOS LOS DATOS DE NIVELACIÓN, ALINEACIÓN Y PERALTE, BIEN POR FLECHAS Y DISTANCIA LATERAL, BIEN POR COORDENADAS ABSOLUTAS.						
	Desvío FC		573.00			573.00	
	Situación final		350.00			350.00	
			132.00			132.00	1,055.00
							1,055.000
1000.0009N1	m ESTADO PREVIO DE RECEPCIÓN DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO						
	LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO PREVIO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO PREVIO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN PRIMER LEVANTE, APROBADO ÉSTE POR LA D.O. EN EL ESTADO PREVIO A LA RECEPCIÓN LA VÍA ALCANZARÁ UNA COTA DE -27MM RESPECTO A LA COTA CABEZA DE CARRIL. ESTA ACTIVIDAD INCLUYE TRES LEVANTES Y TRES ESTABILIZADOS, QUE SEGUIRÁN LA SIGUIENTE SECUENCIA: DESCARGA DE BALASTO, PERFILADO, BATEO, ESTABILIZADO, PERFILADO Y BARRIDO.						
	Desvío FC		573.00			573.00	
	Situación final		350.00			350.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
			132.00			132.00	1,055.00
							1,055.000
1000.0010N1	ud SOLDADURA ALUMINOTÉRMICA CARRIL R260						
	SOLDADURA ALUMINOTÉRMICA PARA CALIDAD 260 CON PRECALENTAMIENTO AIRE INDUCIDO Y PROPANO EN PLENA VÍA Y KIT DE SOLDADURA CON CRISOL DE UN SOLO USO PARA UNIONES DE CARRILES SEPARADOS ENTRE SÍ UNA DISTANCIA MENOR O IGUAL A 180 M. COMPRENDE LA MANO DE OBRA NECESARIA PARA LA EJECUCIÓN EN VÍA DE LA SOLDADURA PARA UNIÓN DE CARRILES DE CUALQUIER PERFIL, LONGITUD Y CLASE DE ACERO. INCLUYE: DESMONTAJE DE BRIDAS Y TORNILLOS; AFLOJADO DE LAS SUJECIONES NECESARIAS PARA LA ALINEACIÓN DE LOS CARRILES; RETIRADA DE BALASTO PARA EL MOVIMIENTO LATERAL DE TRAVIESAS; LOS TRABAJOS NECESARIOS PARA LA FORMACIÓN DE LA CALA NOMINAL ADECUADA POR DESPLAZAMIENTO DE CARRILES, INCLUSO CON TENSORES HIDRÁULICOS; LOS CORTES CON TRONZADORA NECESARIOS PARA SANEAMIENTO DE LOS EXTREMOS A SOLDAR; ALINEACIÓN EN PLANTA Y ALZADO DE LOS CARRILES CON LOS EQUIPOS ADECUADOS; KIT DE SOLDADURA Y CONSUMIBLES; DESBASTADO, ESMERILADO DE ACABADO Y ARREGLO DEL PERFIL; MARCADO Y REPOSICIÓN DE TODOS LOS ELEMENTOS DE LA VÍA PARA QUE ÉSTA QUEDE EN ÓPTIMAS CONDICIONES DE SERVICIO; TRABAJO DE AFLOJADO Y POSTERIOR APRETADO DE LAS SUJECIONES DE LAS TRAVIESAS COLATERALES DE LA SOLDADURA PARA AMINORAR LAS TENSIONES PROVOCADAS POR LA RETRACCIÓN DE LA SOLDADURA; TRABAJOS AUXILIARES; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF.						
	Desvío FC	0.0833	223.00			18.58	
	Situación final	0.0833	132.00			11.00	
							29.58
							29.580
1000.0011N1	m LIBERACIÓN DE TENSIONES EN BARRA LARGA						
	LIBERACIÓN DE TENSIONES EN BARRA LARGA SOLDADA. INCLUYE: MANO DE OBRA PARA EL AFLOJADO DE SUJECIONES EN LA LONGITUD DE VÍA A TRATAR; FORMACIÓN DE PUNTOS FIJOS; COLOCACIÓN DE RODILLOS ENTRE EL CARRIL Y LA TRAVIESA ASÍ COMO SU POSTERIOR RETIRADA (QUITANDO LA PLACA DE ASIENTO Y VOLVIENDO A COLOCARLA), PARA FAVORECER EL DESLIZAMIENTO LONGITUDINAL DE LOS CARRILES CON PEQUEÑOS GOLPES PERCUTIDOS CON MARTILLOS DE MADERA O NYLON; MARCADO DE PUNTOS CADA 50M EN TRAVIESA Y CARRIL PARA EL CONTROL DEL DESPLAZAMIENTO DE LAS SEMIBARRAS; FOR-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MACIÓN DE LA CALA DEFINITIVA CON TENSORES HIDRÁULICOS; APRETADO DE LA SUJECIÓN CON MOTOCLAVADORAS HIDRÁULICAS, QUE CUENTE CON ACEPTACIÓN DE USO DE ADIF, DOTADAS DE PAR DE APRIETE AJUSTADO AL TIPO DE SUJECIÓN TRATADA; MATERIALES Y CONSUMIBLES SITUADOS A PIE DE OBRA; CONTROL DE LA TEMPERATURA DEL ELEMENTO REPARADO; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF; LA ENTREGA DEL ACTA DE NEUTRALIZACIÓN SEGÚN N.A.V. NO SE INCLUYEN NI LOS CORTES NI LAS SOLDADURAS DE CARRIL. EL ABONO DE LA TOTALIDAD DEL IMPORTE CORRESPONDIENTE A ESTA UNIDAD ESTARÁ CONDICIONADO A LA REALIZACIÓN DE LAS COMPROBACIONES, MEDICIONES Y / O INSPECCIONES DESCRITAS EN LA NORMATIVA VIGENTE.						
	Desvío FC		573.00			573.00	
	Situación final		350.00			350.00	
			132.00			132.00	1,055.00
							1,055.000
1000.0012N1	m ESTADO DE RECEPCIÓN DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO						
	LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN ESTADO PREVIO DE LA RECEPCIÓN, APROBADO ÉSTE POR LA D.O. Y TRAS HABER LLEVADO A CABO LA NEUTRALIZACIÓN DE TENSIONES. INCLUYE LAS OPERACIONES DE LEVANTE DESDE LA FASE DE ESTADO PREVIO DE RECEPCIÓN HASTA LA COTA DEFINITIVA, DEJANDO LA VÍA COLOCADA EN PLANTA Y ALZADO.						
	Desvío FC		573.00			573.00	
	Situación final		350.00			350.00	
			132.00			132.00	1,055.00
							1,055.000
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km						
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	LA DISTANCIA.						
	Demolición del desvío provisional	4,367.7				4,367.700	4,367.700
							4,367.700
801.0060	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES						
	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.						
	Restaur. medioambiental tras demolición desvío provisional	0.3	573.00	6.00		1,031.40	1,031.40
							1,031.400
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Cuneta ferrocarril		560.00	0.15		84.00	
	Muro O.D.	12				12.00	
	Aletas O.D.	10				10.00	106.00
							106.000
400.0010	m³ HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN						
	Cuneta ferrocarril		560.00	0.10		56.00	
	Muro O.D.	1	25.00	0.26		6.50	
	Aletas O.D.	1	4.00	0.20		0.80	63.30
							63.300

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
1000.0101N1	m CANALETA PREFABRICADA PARA CABLES						
	CANALETA PREFABRICADA PARA CABLES DE DIMENSIONES 400 X 290 MM CON TAPA ARMADA I/ EJECUCIÓN DE ZANJA Y MATERIAL FILTRANTE						
	Desvío provisional		573.0000			573.0000	
	Reposición definitiva		132.0000			132.0000	705.0000
							705.000
1000.0102N1	ud ARQUETA DE HORMIGÓN PARA CABLES						
	ARQUETA DE HORMIGÓN PARA CABLES						
	Desvío provisional	2				2.0000	
	Reposición definitiva	2				2.0000	4.0000
							4.000
1010.0000N1	PA DISEÑO DE ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIÓN FERROVIARIAS						
	PARTIDA ALZADA A JUSTIFICAR PARA EL SUMINISTRO, OBRA E INSTALACIÓN DE LA MODIFICACIÓN DEL TENDIDO DE LOS ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIONES FERROVIARIAS DEBIDO AL DESVÍO TEMPORAL DE LA LÍNEA Y SU VUELTA A LA CONDICIÓN INICIAL						
		1				1.00	1.00
							1.000
1010.0000N2	PA SUMINISTRO, OBRA E INSTALACIÓN DE ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIÓN FERROVIARIAS						
	PARTIDA ALZADA A JUSTIFICAR POR LA POSIBLE MODIFICACIÓN DE LAS INSTALACIONES FERROVIARIAS DE SEÑALIZACIÓN Y COMUNICACIÓN. ESTUDIO DE DETALLE DE LAS INSTALACIONES EXISTENTES Y DISEÑO DE SU MODIFICACIÓN PARA EL DESVÍO PROVISIONAL Y SU POSIBLE REPOSICIÓN DEFINITIVA						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
301.0020	m³ DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO						
	DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	Demolición O.D. actual	20				20.00	
	Demolición aletas O.D. existente bajo desvío	15				15.00	35.00
							35.000
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Aletas O.D.	2.5				2.50	2.50
							2.500
696.0010N1	m² FORRO DRENANTE POLIAMIDA						
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.						
	Aletas O.D.	13				13.000	13.000
							13.000
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180						
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN						
	Cuerpo O.D.	20.00				20.00	20.00
							20.000
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA						
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Aletas O.D.	10				10.00	10.00
							10.000
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Aletas O.D.	15				15.00	
	Cuerpo O.D.	30				30.00	45.00
							45.000
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Aletas O.D.	25				25.00	
	Cuerpo O.D.	32				32.00	57.00
							57.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Cuantía acero Aletas O.D.						
	150kg/m3	150	7.30			1,095.00	1,095.00
							1,095.000
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL						
	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Aletas O.D.	20				20.00	20.00
							20.000
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)						
	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.						
	Aletas O.D.	50				50.000	
							50.000
							50.000
301.0120	m LEVANTAMIENTO DE VALLAS METÁLICAS						
	LEVANTAMIENTO DE VALLAS METÁLICAS I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	Levante de cerramiento actual de L.A.V.	230.00				230.00	230.00
							230.000
915.0010N1	m CERRAMIENTO DE ADIF PARA L.A.V. DE POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO						
	CERRAMIENTO DE ADIF PARA L.A.V. DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3.5 M, ARRIOSTRAMIENTO CADA 35 M Y MALLA DE ACERO GALVANIZADO, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS						
	Reposición cerramiento L.A.V. por desvío	1	225.00			225.00	225.00
							225.000
1000.0013N1	h PILOTO DE VÍA						
	PILOTO DE VÍA, PARA TRABAJOS CERCA DE LAS VÍAS DE FERROCARRIL						
	Trabajos de ripado y desvío ffcc cerca de vías	8	30.00			240.00	240.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							240.000
	SUBCAPÍTULO 08.3 EQUIPAMIENTO ITS						
980.0100N1	ud ARQUETA PARA CANALIZACIÓN PARA SISTEMAS ITS DE 60 x 60						
	ARQUETA DE 60 X 60 DE DIMENSIONES INTERIORES CON TAPA CON MARCO METÁLICO Y ANAGRAMA DE LA DGT.						
	Medición según planos	7				7.0000	7.0000
							7.000
980.0110N1	ud ARQUETA DE EMPALME PARA CANALIZACIÓN PARA SISTEMAS ITS DE 80 x 80						
	ARQUETA DE EMPALME DE 80 X 80 DE DIMENSIONES INTERIORES.						
	Medición según planos	9				9.0000	9.0000
							9.000
980.0120N3	m CANALIZACIÓN PARA SISTEMAS ITS DE 3 TUBOS PVC Y 2 TUBOS CORRUGADOS BAJO CALZADA						
	CANALIZACIÓN PARA SISTEMAS ITS BAJO CALZADA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, EMBEBIDOS EN HORMIGÓN EN MASA HM-20.						
	Medición según planos	950.0000				950.0000	950.0000
							950.000
980.0125N3	m CANALIZACIÓN PARA SISTEMAS ITS DE 3 TUBOS PVC Y 2 TUBOS CORRUGADOS EN BERMA						
	CANALIZACIÓN PARA SISTEMAS ITS BAJO BERMA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, RECUBIERTOS DE ARENA.						
	Medición según planos	2,150.0000				2,150.0000	2,150.0000
							2,150.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 09 REPOSICIÓN DE SERVICIOS Y SERVIDUMBRES						
	SUBCAPÍTULO 09.1 LÍNEAS ELÉCTRICAS						
998.0001N1	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO						
	PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO						
		1				1.00	1.00
							1.000
	SUBCAPÍTULO 09.2 LÍNEAS TELEFÓNICAS						
998.0002N1	PA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO						
	PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO. SE APLICA LA ORDEN CIRCULAR Nº 276/S.G. DE 1979 SOBRE RELACIONES CON LA COMPAÑÍA TELEFÓNICA NACIONAL DE ESPAÑA, POR LA CUAL EL MINISTERIO DE FOMENTO SE HARÁ CARGO DEL 50% DE LA VALORACIÓN DE LAS REPOSICIONES TELEFÓNICAS Y TELEFÓNICA DEL 50% RESTANTE.						
		0.5				0.50	0.50
							0.500
	SUBCAPÍTULO 09.3 ALUMBRADO PÚBLICO						
	APARTADO 09.3.01 SERVICIO 04.012						
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO						
	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO						
		1	25.00			25.00	25.00
							25.000
999.0279N1	ud DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	30.00			30.00	30.00
							30.000
	APARTADO 09.3.02 SERVICIO 04.013						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	143.00			143.00	143.00
							143.000
999.0277N1	ud DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		4				4.00	4.00
							4.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.3.03 SERVICIO 04.014						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	26.00			26.00	26.00
							26.000
999.0277N1	ud DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		2				2.00	2.00
							2.000
	APARTADO 09.3.04 SERVICIO 04.016						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	222.00			222.00	222.00
							222.000
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO						
	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO						
		1	227.00			227.00	227.00
							227.000
999.0280N1	m SUMINISTRO DE CABLE UNIPOLAR						
	SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV						
		1	227.00			227.00	227.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							227.000
999.0279N1	ud DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		5				5.00	5.00
							5.000
999.0274N1	ud DESMONTAJE DE PUNTO DE LUZ						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO						
		1				1.00	1.00
							1.000
999.0281N1	ud TOMA DE TIERRA						
	TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD						
		5				5.00	5.00
							5.000
	APARTADO 09.3.05 SERVICIO 04.017						
	SUBAPARTADO 09.3.04.01 DESVÍO PROVISIONAL						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	154.00			154.00	154.00
							154.000
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO						
	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	196.00			196.00	196.00
							196.000
999.0280N1	m SUMINISTRO DE CABLE UNIPOLAR						
	SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV						
		1	196.00			196.00	196.00
							196.000
999.0281N1	ud TOMA DE TIERRA						
	TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD						
		5				5.00	5.00
							5.000
999.0275N1	ud DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y BÁCULO						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO, I/ CIMENTACIÓN Y PARTE PROPORCIONAL DE ARQUETAS, CANALIZACIONES Y CABLEADO						
		5				5.00	5.00
							5.000
	SUBAPARTADO 09.3.04.02 REPOSICIÓN DEFINITIVA						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	196.00			196.00	196.00
							196.000
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO						
	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	154.00			154.00	154.00
							154.000
999.0280N1	m SUMINISTRO DE CABLE UNIPOLAR SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV						
		1	154.00			154.00	154.00
							154.000
999.0281N1	ud TOMA DE TIERRA TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD						
		5				5.00	5.00
							5.000
999.0274N1	ud DESMONTAJE DE PUNTO DE LUZ DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO						
		5				5.00	5.00
							5.000

APARTADO 09.3.06 SERVICIO 04.018

999.0277N1	ud DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		4				4.00	4.00
							4.000
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	125.00			125.00	125.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							125.000

APARTADO 09.3.07 SERVICIO 04.019

999.0277N1	ud DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		1				1.00	1.00
							1.000
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	43.00			43.00	43.00
							43.000

APARTADO 09.3.08 SERVICIO 04.020

999.0277N1	ud DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		1				1.00	1.00
							1.000
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	40.00			40.00	40.00
							40.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.3.09 SERVICIO 04.021						
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA						
	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN						
		1	160.00			160.00	160.00
							160.000
999.0279N1	ud DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN						
	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN						
		5				5.00	5.00
							5.000
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO						
	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO						
		1	103.00			103.00	103.00
							103.000
999.0280N1	m SUMINISTRO DE CABLE UNIPOLAR						
	SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV						
		1	103.00			103.00	103.00
							103.000
999.0281N1	ud TOMA DE TIERRA						
	TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD						
		4				4.00	4.00
							4.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 09.4 ABASTECIMIENTOS DE AGUA						
	APARTADO 09.4.01 SERVICIO 05.009						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	20.000			20.000	20.000
							20.000
	APARTADO 09.4.02 SERVICIO 05.010						
	SUBAPARTADO 09.4.02.01 DESVÍO PROVISIONAL						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	289.000			289.000	289.000
							289.000
999.0320N1	ud VENTOSA DE DOBLE BOLA Ø 80 mm PN-25 ATMÓSFERAS DE FUNDICIÓN DÚCTIL						
	VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA						
		1				1.000	1.000
							1.000
932.0002N1	m TUBERÍA DE POLIETILENO DE Ø 90 mm HASTA PT-16 ATMÓSFERAS						
	TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	550.000			550.000	550.000
							550.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
931.0001N1	ud ARQUETA A-I						
	ARQUETA TIPO A-I						
		12				12.000	12.000
							12.000
	SUBAPARTADO 09.4.02.02 REPOSICIÓN DEFINITIVA						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	550.000			550.000	550.000
							550.000
932.0002N1	m TUBERÍA DE POLIETILENO DE Ø 90 mm HASTA PT-16 ATMÓSFERAS						
	TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	345.000			345.000	345.000
							345.000
931.0001N1	ud ARQUETA A-I						
	ARQUETA TIPO A-I						
		4				4.000	4.000
							4.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.03 SERVICIO 05.012						
	SUBAPARTADO 09.4.03.01 DESVÍO PROVISIONAL						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	147.000			147.000	147.000
							147.000
930.0004N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	113.000			113.000	113.000
							113.000
999.0320N1	ud VENTOSA DE DOBLE BOLA Ø 80 mm PN-25 ATMÓSFERAS DE FUNDICIÓN DÚCTIL						
	VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA						
		1				1.000	1.000
							1.000
999.0304N1	ud VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE Ø 300 mm						
	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE						
		1				1.00	1.00
							1.000
931.0003N1	ud ARQUETA A-III						
	ARQUETA TIPO A-III						
		2				2.000	2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2.000
	SUBAPARTADO 09.4.03.02 REPOSICIÓN DEFINITIVA						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	113.000			113.000	113.000
							113.000
930.0004N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	148.000			148.000	148.000
							148.000
931.0003N1	ud ARQUETA A-III						
	ARQUETA TIPO A-III						
		1				1.000	1.000
							1.000
999.0304N1	ud VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE Ø 300 mm						
	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.04 SERVICIO 05.013						
	SUBAPARTADO 09.4.04.01 DESVÍO PROVISIONAL						
999.0303N1	ud VÁLVULA DE COMPUERTA DE LATÓN DE Ø 110 mm HASTA PN-16 ATMÓSFERAS						
	VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA						
		1				1.00	1.00
							1.000
932.0001N1	m TUBERÍA DE POLIETILENO DE Ø 63 mm HASTA PT-16 ATMÓSFERAS						
	TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	10.000			10.000	10.000
							10.000
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	71.000			71.000	71.000
							71.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 09.4.04.02 REPOSICIÓN DEFINITIVA						
999.0303N1	ud VÁLVULA DE COMPUERTA DE LATÓN DE Ø 110 mm HASTA PN-16 ATMÓSFERAS						
	VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA						
		1				1.00	1.00
							1.000
932.0001N1	m TUBERÍA DE POLIETILENO DE Ø 63 mm HASTA PT-16 ATMÓSFERAS						
	TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	71.000			71.000	71.000
							71.000
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	10.000			10.000	10.000
							10.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.05 SERVICIO 05.014						
	SUBAPARTADO 09.4.05.01 DESVÍO PROVISIONAL						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	178.000			178.000	178.000
							178.000
930.0004N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	22.000			22.000	22.000
							22.000
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	159.000			159.000	159.000
							159.000
931.0002N1	ud ARQUETA A-II						
	ARQUETA TIPO A-II						
		3				3.000	3.000
							3.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 09.4.05.02 REPOSICIÓN DEFINITIVA						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	181.000			181.000	181.000
							181.000
930.0004N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	87.000			87.000	87.000
							87.000
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	90.000			90.000	90.000
							90.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.06 SERVICIO 05.015						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	175.000			175.000	175.000
							175.000
930.0005N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 500 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	230.000			230.000	230.000
							230.000
999.0313N1	m REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm)						
	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)						
		1	80.000			80.000	80.000
							80.000
931.0004N1	ud ARQUETA A-IV						
	ARQUETA TIPO A-IV						
		4				4.000	4.000
							4.000
999.0305N1	ud VÁLVULA DE MARIPOSA DE Ø 500 mm						
	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE						
		2				2.000	2.000
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.07 SERVICIO 05.016						
999.0313N1	m REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm)						
	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)						
		1	20.000			20.000	20.000
							20.000
930.0005N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 500 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	25.000			25.000	25.000
							25.000
931.0004N1	ud ARQUETA A-IV						
	ARQUETA TIPO A-IV						
		2				2.000	2.000
							2.000
999.0305N1	ud VÁLVULA DE MARIPOSA DE Ø 500 mm						
	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE						
		1				1.000	1.000
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.4.08 SERVICIO 05.017						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	202.000			202.000	202.000
							202.000
	APARTADO 09.4.09 SERVICIO 05.020						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	97.000			97.000	97.000
							97.000
	SUBCAPÍTULO 09.5 SANEAMIENTOS						
	APARTADO 09.5.01 SERVICIO 06.007						
	SUBAPARTADO 09.5.01.01 DESVÍO PROVISIONAL						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	505.000			505.000	505.000
							505.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		22				22.00	22.00
							22.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		20				20.000	20.000
							20.000
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM						
		1	580.000			580.000	580.000
							580.000

SUBAPARTADO 09.5.01.02 REPOSICIÓN DEFINITIVA

320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	310.000			310.000	310.000
							310.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		9				9.000	9.000
							9.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		11				11.00	11.00
							11.000
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM						
		1	410.000			410.000	410.000
							410.000

APARTADO 09.5.02 SERVICIO 06.008

320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	188.000			188.000	188.000
							188.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		4				4.00	4.00
							4.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		3				3.000	3.000
							3.000
999.0312N1	m REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 mm)						
	REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 MM)						
		1	128.000			128.000	128.000
							128.000
930.0004N2	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 400 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 400 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.						
		1	183.000			183.000	183.000
							183.000
	APARTADO 09.5.03 SERVICIO 06.009						
	SUBAPARTADO 09.5.03.01 DESVÍO PROVISIONAL						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	315.000			315.000	315.000
							315.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		2				2.00	2.00
							2.000
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	TUBERÍA DE PVC DE Ø 400 MM						
		1	175.000			175.000	175.000
							175.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE						
	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		2				2.000	2.000
							2.000
	SUBAPARTADO 09.5.03.02 REPOSICIÓN DEFINITIVA						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	175.000			175.000	175.000
							175.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		4				4.00	4.00
							4.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE						
	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2				2.000	2.000
							2.000
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm						
	TUBERÍA DE PVC DE Ø 400 MM						
		1	215.000			215.000	215.000
							215.000
	APARTADO 09.5.04 SERVICIO 06.010						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	80.000			80.000	80.000
							80.000
	APARTADO 09.5.05 SERVICIO 06.011						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	103.000			103.000	103.000
							103.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		3				3.00	3.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							3.000
414.0120	m TUBERÍA DE HORMIGÓN DE DIÁMETRO 1000 mm						
	COLECTOR ENTERRADO, FORMADO POR TUBO DE HORMIGÓN ARMADO PARA SANEAMIENTO SIN PRESIÓN, FABRICADO POR COMPRESIÓN RADIAL, CLASE 135, CARGA DE ROTURA 135 KN/M², DE 1000 MM DE DIÁMETRO NOMINAL (INTERIOR), UNIÓN POR ENCHUFE Y CAMPANA CON JUNTA ELÁSTICA. EL PRECIO INCLUYE LOS EQUIPOS Y LA MAQUINARIA NECESARIOS PARA EL DESPLAZAMIENTO Y LA DISPOSICIÓN EN OBRA DE LOS ELEMENTOS, PERO NO INCLUYE LA EXCAVACIÓN NI EL RELLENO PRINCIPAL.						
		1	154.00			154.00	154.00
							154.000
999.0313N1	m REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm)						
	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)						
		1	73.000			73.000	73.000
							73.000
	APARTADO 09.5.06 SERVICIO 06.012						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	310.000			310.000	310.000
							310.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE						
	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		13				13.000	13.000
							13.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.5.07 SERVICIO 06.013						
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	200.000			200.000	200.000
							200.000
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE						
	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		1				1.000	1.000
							1.000
	SUBCAPÍTULO 09.6 CENTRO DEPORTIVO AS EIROAS						
	APARTADO 09.6.1 TRABAJOS PREVIOS						
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE						
	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
		1	103.50			103.50	103.50
							103.500
955.0010N1	m LEVANTADO Y RETIRADA DE CERRAMIENTO						
	LEVANTADO DE CERRAMIENTO FORMADO POR MALLA ELECTROSOLDADA CON BASTIDOR DE PERFIL HUECO DE ACERO DE 200 CM DE ALTURA Y FIJADA MEDIANTE RECIBIDO EN OBRA DE FÁBRICA, CON MEDIOS MANUALES Y EQUIPO DE OXICORTE, Y CARGA MANUAL DEL MATERIAL DESMONTADO SOBRE CAMIÓN O CONTENEDOR.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1	170.00			170.00	170.00
							170.000
955.0011N1	ud DESMONTAJE DE TORRE DE ILUMINACIÓN						
	DESMONTAJE DE TORRE DE ILUMINACIÓN, DE ENTRE 10 Y 12 M DE ALTURA, CON RECUPERACIÓN DEL MATERIAL PARA SU POSTERIOR UBICACIÓN EN OTRO EMPLAZAMIENTO, SIENDO EL ORDEN DE EJECUCIÓN DEL PROCESO INVERSO AL DE SU INSTALACIÓN, Y CARGA MANUAL SOBRE CAMIÓN O CONTENEDOR. EL PRECIO INCLUYE EL DESMONTAJE DE LOS ACCESORIOS Y DE LOS ELEMENTOS DE FIJACIÓN, INCLUIDA LA DEMOLICIÓN DE LA CIMENTACIÓN.						
		1				1.00	1.00
							1.000
955.0001N1	m DESMONTAJE REJILLA CANALETAS DESAGÜE						
	DESMONTAJE, POR MEDIOS MANUALES, DE LAS REJILLAS DE CANALETAS PERIMETRALES DE DESAGÜE DEL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN DE LAS MISMAS; I/ REPOSICIÓN DE LAS REJAS O ELEMENTOS DE FIJACIÓN Y ANCLAJE EN MAL ESTADO O DETERIORADAS, LIMPIEZA DE LAS REJAS REUTILIZABLES CON AGUA A PRESIÓN, COLOCACIÓN DE LAS REJILLAS EN LAS CANALETAS PARA FIJACIÓN DEL NUEVO CÉSPED, LIMPIEZA DE LA CANALETA Y SISTEMA DE DRENAJE MEDIANTE AGUA A PRESIÓN COMPROBANDO SU CONEXIÓN CON EL COLECTOR DE SANEAMIENTO Y SU FUNCIONAMIENTO. MEDIDA LA LONGITUD REALMENTE EJECUTADA.						
		1	45.00			45.00	45.00
							45.000
955.0002N1	ud DESMONTAJE DE EQUIPAMIENTO DEPORTIVO						
	DESMONTAJE Y RETIRADA, POR MEDIOS MANUALES, DEL EQUIPAMIENTO DEPORTIVO (PORTERÍAS, BARADILLAS, BANQUILLOS, CAÑONES DE RIEGO, ETC...) EXISTENTE EN EL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN Y COLOCACIÓN, I/ REPOSICIÓN DE ELEMENTOS AUXILIARES Y DE FIJACIÓN O ANCLAJE DEL EQUIPAMIENTO EN MAL ESTADO O DETERIORADAS, COLOCACIÓN DEL EQIIPAMIENTO DEPORTIVO TRAS LA INSTALACIÓN DEL NUEVO CÉSPED, MEDIOS AUXILIARES Y AYUDAS DE ALBAÑILERÍA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		1				1.00	1.00
							1.000
955.0003N1	m² LEVANTADO Y RETIRADA DE CÉSPED EXISTENTE						
	LEVANTADO Y RETIRADA DE PAVIMENTO DE CÉSPED ARTIFICIAL REALIZADO POR MEDIOS MECÁNICOS, MEDIANTE MAQUINARIA ESPECIALIZADA QUE PERMITA LA SEPARACIÓN MECÁNICA "IN SITU" DE TODOS SUS COMPONENTES (MOQUETA + ÁRIDO + SBR NEGRO) PARA POSTERIOR CLASIFICACIÓN, I/ EL ALMACENAMIENTO DEL MATERIAL DE RELLENO (ÁRIDO Y SBR NEGRO) EN SACAS IMPERMEABLES INDEPENDIENTES PARA SU REUTILIZACIÓN O TRANSPORTE A VERTEDERO CONTROLADO (SEGÚN DETERMINACIÓN DEL DIRECTOR DE OBRA, ALMACENAMIENTO DE LOS ROLLOS DE CÉSPED ARTIFICIAL O TRANSPORTE A LUGAR DETERMINADO POR EL DIRECTOR DE OBRA), LIMPIEZA DE BARREDORA MECÁNICA DE LA CAPA DE SOPORTE (BASE ASFÁLTICA) Y EL TRANSPORTE A VERTEDERO DE ESCOMBROS Y MATERIAL RESIDUAL. MEDIDA LA SUPERFICIE EJECUTADA.						
		1	92.00	52.00		4,784.00	4,784.00
							4,784.000
955.0005N1	t CARGA Y TRANSPORTE DEL CÉSPED VIEJO A VERTEDERO						
	CARGA Y TRANSPORTE A VERTEDERO AUTORIZADO DEL CÉSPED VIEJO QUE NO SE TENGA QUE REUTILIZAR.						
		1	11.58			11.58	11.58
							11.580
955.0008N1	PA.IADESMONTAJE Y MONTAJE DE EQUIPOS DE RIEGO						
	PARTIDA ALZADA DE ABONO INTEGRO DE DESMONTAJE DE EQUIPOS DE RIEGO, TRASLADO A LUGAR DE ACOPIO DURANTE LA EJECUCIÓN DE LAS OBRAS Y MONTAJE EN UBICACIÓN DEFINITIVA.						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.6.2 PAVIMENTACIÓN CÉSPED NUEVO						
955.0004N1	m² PAVIMENTO DE CÉSPED NUEVO						
	SUMINISTRO E INSTALACIÓN DE CÉSPED ARTIFICIAL TIPO FIELDTURF OPTIMUM 60 MM O SIMILAR. HILO MONOFILAMENTO CÓNCAVO MULTINERVADO EN SU TOTALIDAD (MÍNIMO 15 NEVIOS ASIMÉTRICOS) DE 12000 DTEX Y 240 MICRAS, DE ALTA RESISTENCIA Y 7559 PUNTADAS (+/- 10%). FIBRA CON TRATAMIENTO ANTI UVA RESISTENTE AL CALOR Y AL HIELO LASTRADA CON ARENA DE SÍLICE REDONDEADA, LIMPIA Y SECA DE GRANULOMETRÍA 0.3/0.8 EN UNA PROPORCIÓN DE 18 KG/M² (+/- 10 %) Y CAUCHO SBR NEGRO DE GRANULOMETRÍA 0.5-2.5 MM EN UN APROPORCIÓN DE 16 KG/M² (+/- 10%). HILO DE POLIETILENO TEJIDO SOBRE UN BACKING ESPECIALMENTE REFORZADO 100% POLIPROPILENO. PESO DE FIBRA: 1164 G/M² (+/- 10%) Y PESO TOTAL APROXIMADO DE 2324 G/M² (+/- 10%). SERVIDO EN ROLLOS DE 4 M DE ANCHO. MARCAJE DE LÍNEAS DE JUEGO DE FÚTBOL 11 EN EL MISMO MATERIAL EN COLOR BLANCO DE 10 CM DE ANCHO CUMPLIENDO LA REGLAMENTACIÓN DE LA R.F.E.F., CON LAS JUNTAS ENCOLADAS CON COLA DE POLIURETANO. PRODUCTO TESTADO EN LABORATORIO CONFORME CUMPLE LOS CRITERIOS FIFA 2*, SIN BASE ELÁSTICA. SE UTILIZARÁ MÁQUINA AUTOPROPULSADA, TIPO SMG-SANMATIC O SIMILAR, DE DOSIFICACION AUTOMÁTICA Y CEPILLOS CONTRAORARIOS QUE PERMITAN EL DEPÓSITO EXACTO DE UNA DETERMINADA CANTIDAD DE RELLENO POR M², CON UN ESPESOR TOTAL DE 45 Y 50 MM. EN EL MARCAJE SE INCLUYEN LAS LÍNEAS DEL CAMPO Y LÍNEAS DE BANQUILLOS.						
		1	92.00	52.00		4,784.00	4,784.00
							4,784.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 09.6.3 OBRAS DE URBANIZACIÓN						
570.0051N1	m BORDILLO MONTABLE TIPO II 22 x 20						
	SUMINISTRO Y COLOCACIÓN DE BORDILLO MONTABLE DE HORMIGÓN PREFABRICADO 22 X 20 CM TIPO II, SOBRE BASE DE HORMIGÓN HM-20, INCLUSO MORTERO DE ASIENTO Y REJUNTADO.						
		1	103.500			103.500	103.500
							103.500
571.0010N1	m² PAVIMENTO LOSETA HIDRÁULICA						
	PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.						
		1	103.50			103.50	103.50
							103.500
	APARTADO 09.6.4 RED DE RIEGO						
417.0030	m TUBO DE PVC DE DIÁMETRO 160 mm						
	TUBO DE PVC DE DIÁMETRO 160MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.						
		1	98.00			98.00	98.00
							98.000
955.0006N1	u CAÑÓN DE RIEGO						
	SUMINISTRO E INSTALCIÓN DE CAÑÓN DE RIEGO SECTORIAL DE RETORNO LENTO, MOD. SR3003 DE RAIN-BIRD O SIMILAR, CON JUEGO DE 6 TOBERAS DE PLÁSTICO GNS-3003T (14, 16, 18, 20, 22, 24 MM), I/ RETIRADA DE CAÑONES VIEJOS, MATERIAL DIVERSO NECESARIO PARA LA INSTALACIÓN DE LOS CAÑONES NUEVOS, MANO DE OBRA Y MAQUINARIA NECESARIA. LOS CAÑONES VIEJOS SE ALMACENARÁN EN LA INSTALACIÓN DEPORTIVA.						
		1				1.00	1.00
							1.000
955.0007N1	u DEPÓSITO PREFABRICADO 4,90 x 2,45 x 2,12 TEHORJA						
	SUMINISTRO Y COLOCACIÓN DE DEPÓSITO DE HORMIGÓN						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ARMADO PREFABRICADO DE 20 M³ CON UNAS DIMENSIONES DE 4,90 X 2,45 X 2,1 M (LARGO, ANCHO, ALTO), CON UN ESPESOR DE PARED DE 110 M, I/ TAPA DE HORMIGÓN ARMADO EN LA PARTE SUPERIOR CON REGISTRO PARA ACCESO. TOTALMENTE INSTALADO.						
		1				1.00	1.00
							1.000
	APARTADO 09.6.5 INTEGRACIÓN AMBIENTAL						
801.0070N2	m² HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS						
	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.						
		1	1,430.000			1,430.000	1,430.000
							1,430.000
	APARTADO 09.6.6 OBRAS COMPLEMENTARIAS						
915.0010	m CERRAMIENTO COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN						
	CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS						
		1	223.00			223.00	223.00
							223.000
915.0020	ud PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA						
	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.						
		1				1.00	1.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							1.000
1102.0050	m BÁCULO TRONCOCONICO DE ACERO GALVANIZADO DE 12 M DE ALTURA PARA SOPORTE DE LUMINARIA						
	SUMINISTRO Y MONTAJE DE CABLE DE 2 PARES TRENZADOS DE CALIBRE 2X2,5 MM2 CON BLINDAJE DE COBRE ESTAÑADO, COBERTURA >65%. RESISTENCIA>120 OHMIOS /KM, IMPEDANCIA CARACTERÍSTICA DE 100-120 OHMIOS. CAPACIDAD ELÉCTRICA ENTRE CONDUCTORES <60 PF/M . CONDUCTOR Y BLINDAJE <100PF/M. NO PROPAGADOR DE LLAMA NI INCENDIO, LIBRE DE HALÓGENO, BAJA EMISIÓN DE HUMOS OPACOS Y BAJA CORROSIVIDAD. INCLUYE ROTULACIÓN Y TODOS LOS TRABAJOS, MATERIALES Y MEDIOS AUXILIARES PARA DEJAR LA UNIDAD TOTALMENTE INSTALADA PROBADA EN PERFECTO ESTADO DE FUNCIONAMIENTO SEGÚN PLANOS Y DEMÁS DOCUMENTOS DEL PROYECTO, INDICACIONES DE LA DF Y NORMATIVA VIGENTE.						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 10 SEGUIMIENTO GEOTÉCNICO Y AUSCULTACIÓN						
	SUBCAPÍTULO 10.1 INVESTIGACIÓN Y SEGUIMIENTO GEOTÉCNICO DE LAS OBRAS						
306.0060	m PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS Ø < 120 mm CON EXTRACCIÓN CONTINUA DE TESTIGO						
	PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS, CON DIÁMETROS COMERCIALES Ø<120MM CON EXTRACCIÓN CONTINUA DE TESTIGO I/ SUMINISTRO DE AGUA Y TESTIFICACIÓN IN SITU POR TÉCNICO COMPETENTE.						
		85.00				85.00	85.00
							85.000
306.0290	m PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, Y ENSAYO BORRO						
	PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, SEGÚN UNEENISO22476-2, Y ENSAYO BORRO, SEGÚN UNE 103809, A CUALQUIER PROFUNDIDAD.						
		1				1.00	1.00
							1.000
306.0320	ud CALICATA MANUAL O MECÁNICA						
	CALICATA MANUAL O MECÁNICA, INCLUSO FOTOGRAFÍAS EN COLOR Y REPOSICIÓN, I/ TESTIFICACIÓN "IN SITU" A CARGO DE TÉCNICO EXPERTO.						
		1				1.00	1.00
							1.000
306.0280N1	ud REGISTRADOR ELECTRÓNICO DE VARIACIONES NIVEL DE AGUA						
	REGISTRADOR ELECTRÓNICO Y AUTÓNOMO PARA MEDIDA DE LAS VARIACIONES PRESIÓN ATMOSFÉRICA Y COMPENSACIÓN EN LAS MEDIDAS DE VARIACIONES DE NIVEL DE AGUA, INCLUSO SUMINISTRO E INSTALACIÓN, INCLUIDO CABLE DE ACERO INOXIDABLE TRENZADO DE 2 MM DE DIÁMETRO PARA REGISTRADOR DE PRESIÓN, ACCESORIOS NECESARIOS Y CAMPAÑA DE RECOGIDA DE DATOS EN CAMPO, INCLUSO LECTURA, DESCARGA Y PROGRAMACIÓN DE REGISTRADORES DE NIVEL EN SONDEOS Y REDACCIÓN DE NOTA TÉCNICA CORRESPONDIENTE.						
		5				5.000	5.000
							5.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 10.2 AUSCULTACIÓN Y CONTROL DE OBRAS DE TIERRA Y CIMENTACIONES						
	APARTADO 10.2.1 MURO DE ESCOLLERA PIE DE RELLENO						
306.0230	m TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm						
	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.						
			15.00			15.00	15.00
							15.000
306.0250	ud INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO						
	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.						
		1				1.00	1.00
							1.000
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		1				1.00	1.00
							1.000
920.0022N1	ud BASE DE COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS						
	BASE PARA COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS						
		1				1.000	1.000
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 10.2.2 ESTRUCTURAS						
	SUBAPARTADO 10.2.3.1 PERGOLA						
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		16				16.00	16.00
							16.000
306.1320N1	ud PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE						
	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.						
		6				6.00	6.00
							6.000
306.1330N1	m VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL						
	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.						
			60.00			60.00	60.00
							60.000
306.1301N1	ud HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS						
	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS						
		2				2.00	2.00
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 10.2.3.2 P.S. 2.1						
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		4				4.00	4.00
							4.000
306.1320N1	ud PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE						
	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.						
		2				2.00	2.00
							2.000
306.1330N1	m VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL						
	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.						
		14.00				14.00	14.00
							14.000
306.1301N1	ud HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS						
	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS						
		2				2.00	2.00
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 10.2.3.3 P.S. 3.4						
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		8				8.00	8.00
							8.000
306.1320N1	ud PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE						
	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.						
		2				2.00	2.00
							2.000
306.1330N1	m VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL						
	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.						
		10.00				10.00	10.00
							10.000
342.0200	m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO						
	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.						
		63.00				63.00	63.00
							63.000
306.1301N1	ud HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS						
	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		2				2.00	2.00
							2.000
	SUBAPARTADO 10.2.3.4 P.S. 4.8						
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS						
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.						
		8				8.00	8.00
							8.000
306.1320N1	ud PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE						
	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TO-POGRÁFICA INOXIDABLE.						
		2				2.00	2.00
							2.000
306.1330N1	m VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL						
	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIEN-TO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.						
		24.00				24.00	24.00
							24.000
306.1301N1	ud HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS						
	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS						
		2				2.00	2.00
							2.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBAPARTADO 10.2.3.5 INFORME TRIMESTRAL CONTROL DE ASIENTOS						
695.0110N1	Ud AUSCULTACIÓN E INFORME DE MEDICIONES						
	AUSCULTACIÓN E INFORME DE MEDICIONES OBTENIDAS						
		10				10.00	10.00
							10.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 11 CONEXIÓN FINAL PROVISIONAL CON EL VIARIO EXISTENTE						
	SUBCAPÍTULO 11.1 MOVIMIENTO DE TIERRAS						
	APARTADO 11.1.1 TRABAJOS PRELIMINARES						
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE						
	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	Enlace da Casilla	1	6,400.00			6,400.00	6,400.00
							6,400.000
301.0020	m³ DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO						
	DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.						
	Estructura enlace da Casilla	1	2,962.40			2,962.40	2,962.40
							2,962.400
	APARTADO 11.1.2 MOVIMIENTO DE TIERRAS						
320.0010	m³ EXCAVACIÓN DE TIERRA VEGETAL						
	EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.						
	S/Med.auxiliar	12,628.5				12,628.50	12,628.50
							12,628.500
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km						
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med.auxiliar						
	Exc Roca 2	516.4				516.400	
	Exc Suelo 1	19,207.5				19,207.500	19,723.900
							19,723.900
330.0020	m³ TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN						
	TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO. (EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).						
	S/Med.auxiliar						
	Pedraplén	7,357.2				7,357.20	7,357.20
							7,357.200
330.0050	m³ SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA						
	SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE I/ CANON DE CANTERA, EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.						
	S/Med.auxiliar	4,981.4				4,981.40	4,981.40
							4,981.400
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	% sobre volumen	0.065	5,296.30			344.26	344.26
							344.260

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
512.0110	m³ SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA						
	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.						
	S/ Med Aux	5,296.3				5,296.30	5,296.30
							5,296.300

SUBCAPÍTULO 11.2 ESTRUCTURA

APARTADO 11.2.1 FALSO TÚNEL 1 - ENLACE A CASILLA

SUBAPARTADO 11.2.1.1 Estribos

321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Estribo 2	1	6.00	122.00	10.00	7,320.00	
		2	6.95	27.00	4.50	1,688.85	
	Estribo 1	1	6.00	122.00	10.00	7,320.00	
		2	5.71	37.00	11.00	4,647.94	20,976.79
							20,976.790
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Total excavación	1	20,976.79			20,976.79	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A DEDUCIR						
	Estribo 2	-1	4.00	120.00	1.10	-528.00	
		-2	4.95	25.00	0.98	-242.55	
	Estribo 1	-1	4.00	120.00	1.10	-528.00	
		-2	3.71	35.00	0.81	-210.36	19,467.88
							19,467.880
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Estribo 2	1	4.00	120.00	0.10	48.00	
		2	4.95	25.00	0.10	24.75	
	Estribo 1	1	4.00	120.00	0.10	48.00	
		2	3.71	35.00	0.10	25.97	
	Losa de transición	1	5.00	111.60	0.10	55.80	202.52
							202.520
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Losa de transición	1	5.00	111.60	0.30	167.40	167.40
							167.400
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Estribo 2						
	Zapata	2	4.00	1.00		8.00	
		2	120.00	1.00		240.00	
		4	4.95	0.88		17.42	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
		4	25.00	0.88		88.00	
	Muro frontal trasdós	2	120.00	6.40		1,536.00	
	Espaldón	1	120.00	1.00		120.00	
	Aletas trasdós	2	25.00	5.60		280.00	
	Tapes aletas	2	35.00	0.63		44.10	
	Estribo 1						
	Zapata	2	4.00	1.00		8.00	
		2	120.00	1.00		240.00	
		4	3.71	1.00		14.84	
		4	35.00	0.71		99.40	
	Muro frontal trasdós	2	120.00	6.40		1,536.00	
	Espaldón	1	120.00	1.00		120.00	
	Aletas trasdós	2	35.00	4.27		298.90	
	Tapes aletas	2	49.00	0.49		48.02	
	Losas de transición						
		2	5.00	0.30		3.00	
		2	111.60	0.30		66.96	4,768.64
							4,768.640

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

	Zapata estribo 2	1	4.00	120.00	1.00	480.00	
		2	4.95	25.00	0.88	217.80	
	Zapata estribo 1	1	4.00	120.00	1.00	480.00	
		2	3.71	35.00	0.71	184.39	1,362.19
							1,362.190

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Estribo 2						
	Muro frontal	2	6.40	120.00		1,536.00	
	Espaldón	1	120.00	1.00		120.00	
	Aletas	2	25.00	5.60		280.00	
	Estribo 1						
	Muro frontal	2	6.40	120.00		1,536.00	
	Espaldón	1	120.00	1.00		120.00	
	Aletas	2	35.00	4.27		298.90	3,890.90
							3,890.900

610.0100 m³ HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

	Alzado estribo 2						
	Fustes	1	0.50	120.00	6.40	384.00	
	Espaldón	1	120.00	0.30	1.00	36.00	
	Aletas	2	25.00	0.63	5.60	176.40	
	Peto	1	28.00	0.60	0.33	5.54	
	Alzado estribo 1						
	Fustes	1	0.50	120.00	6.40	384.00	
	Espaldón	1	120.00	0.30	1.00	36.00	
	Aletas	2	35.00	0.49	4.27	146.46	
	Peto	1	28.00	0.60	0.33	5.54	1,173.94
							1,173.940

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Estribo 2						
	Zapata del Estribo 2	1	697.80	80.00		55,824.00	
	Alzados del Estribo 2	1	596.40	130.00		77,532.00	
	Estribo 1						
	Zapata del Estribo 1	1	664.39	80.00		53,151.20	
	Alzados del Estribo 1	1	566.46	130.00		73,639.80	
	Losas de transición	1	172.94	170.00		29,399.80	289,546.80
							289,546.800

690.0050 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON LÁMINA ASFÁLTICA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIONES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFORADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.

	Estribo 2						
	Tradós muro frontal	1	6.40	120.00		768.00	
	Trasdós espaldón	1	120.00	1.00		120.00	
	Trasdós aletas	2	25.00	5.60		280.00	
	Estribo 1						
	Trasdós muro frontal	1	6.40	120.00		768.00	
	Trasdós espaldón	1	120.00	1.00		120.00	
	Trasdós aletas	2	35.00	4.27		298.90	2,354.90
							2,354.900

805.0013N1 m² LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD

LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.

	s/Planos						
	Estribo 2						
	Tradós muro frontal	1	6.400	120.000		768.000	
	Trasdós espaldón	1	120.000	1.000		120.000	
	Trasdós aletas	2	25.000	5.600		280.000	
	Estribo 1						
	Trasdós muro frontal	1	6.400	120.000		768.000	
	Trasdós espaldón	1	120.000	1.000		120.000	
	Trasdós aletas	2	35.000	4.270		298.900	2,354.900
							2,354.900

SUBAPARTADO 11.2.1.2 Pilas

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

	Pila 1	1	122.00	6.50	3.10	2,458.30	2,458.30
							2,458.300

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

	Pila 1	1	122.00	6.50	3.10	2,458.30	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A DEDUCIR						
		-1	120.00	4.50	1.10	-594.00	1,864.30
							1,864.300
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Pila 1	1	120.00	4.50	0.10	54.00	54.00
							54.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Zapata Pila 1	2	120.00	1.10		264.00	
		2	4.50	1.10		9.90	273.90
							273.900
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata de Pila 1	1	120.00	4.50	1.10	594.00	594.00
							594.000
680.0040	m² ENCOFRADO VISTO CURVO						
	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Pila 1	40		2.52	6.39	644.11	644.11
							644.110
610.0100	m³ HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Pila 1	40	0.50		6.39	127.80	127.80
							127.800
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapatas	1	594.00	85.00		50,490.00	
	Alzado de pilas	1	127.80	210.00		26,838.00	77,328.00
							77,328.000
	SUBAPARTADO 11.2.1.3 Tablero						
681.0010	m³ CIMBRA CUAJADA						
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
	Vano 1		120.00	13.00	5.50	8,580.00	
	Vano 2		120.00	13.00	5.50	8,580.00	17,160.00
							17,160.000
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Tapes losa superior	2	1.00	26.00		52.00	
	Losa superior		120.00	26.00		3,120.00	3,172.00
							3,172.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Tapas estribos	2	120.00	1.00		240.00	240.00
							240.000
601.0010	kg ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL						
	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.						
		1	3,360.00	15.00		50,400.00	50,400.00
							50,400.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		1	3,360.00	115.00		386,400.00	386,400.00
							386,400.000
610.0150	m³ HORMIGÓN PARA PRETENSAR C40/50						
	HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.						
		1	120.00	28.00		3,360.00	3,360.00
							3,360.000
690.0021	m² IMPERMEABILIZACIÓN DE TABLEROS DE PUENTES CON LÁMINA SBS EN SISTEMA MONOCAPA						
	IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.						
		1	120.00	28.00		3,360.00	3,360.00
							3,360.000
695.0020	ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO						
	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS						
		1				1.00	1.00
							1.000
695.0120	día PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA						
	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA						
		1				1.00	1.00
							1.000
695.0080	ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m						
	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 11.2.2 FALSO TÚNEL 2 - ENLACE A CASILLA						
	SUBAPARTADO 11.2.2.1 Estribos						
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO						
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.						
	Estribo 2	1	6.00	102.00	10.00	6,120.00	
		1	16.00	7.25	3.00	348.00	
		1	16.00	7.40	3.00	355.20	
	Estribo 1	1	6.00	102.00	10.00	6,120.00	
		2	36.00	6.18	3.00	1,334.88	14,278.08
							14,278.080
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).						
	Total excavación	1	14,278.08			14,278.08	
	A DEDUCIR						
	Estribo 2	-1	4.00	100.00	1.10	-440.00	
		-1	14.00	5.25	1.00	-73.50	
		-1	14.00	5.40	1.10	-83.16	
	Estribo 1	-1	4.00	100.00	1.10	-440.00	
		-2	34.00	4.18	0.84	-238.76	13,002.66
							13,002.660
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Estribo 2	1	4.00	100.00	0.10	40.00	
		1	14.00	5.25	0.10	7.35	
		1	14.00	5.40	0.10	7.56	
	Estribo 1	1	4.00	100.00	0.10	40.00	
		2	34.00	4.18	0.10	28.42	
	Losa de transición	2	5.00	110.00	0.10	110.00	233.33
							233.330
610.0030	m³ HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Losa de transición	2	5.00	110.00	0.30	330.00	330.00
							330.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Estribo 2						
	Zapata	2	4.00	1.00		8.00	
		1	100.00	1.00		100.00	
		2	14.00	0.90		25.20	
		2	5.25	0.90		9.45	
		1	5.25	0.90		4.73	
		2	14.00	1.00		28.00	
		2	5.40	1.00		10.80	
	Muro frontal trasdós	2	100.00	7.50		1,500.00	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Espaldón	1	100.00	1.00		100.00	
	Aletas trasdós	1	14.00	3.00		42.00	
		1	14.00	6.00		84.00	
	Tapes aletas	2	19.60	0.65		25.48	
	Estribo 1						
	Zapata	2	4.00	1.00		8.00	
		2	100.00	1.00		200.00	
		4	34.00	1.00		136.00	
		4	4.18	0.74		12.37	
	Muro frontal trasdós	2	100.00	7.50		1,500.00	
	Espaldón	1	100.00	1.00		100.00	
	Aletas trasdós	2	34.00	4.75		323.00	
	Tapes aletas	2	47.60	0.55		52.36	
	Losas de transición						
		4	5.00	0.30		6.00	
		4	110.00	0.30		132.00	4,407.39
							4,407.390

610.0060 m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS

HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.

Zapata estribo 2	1	4.00	100.00	1.00	400.00		
	1	14.00	5.25	0.90	66.15		
	1	14.00	5.40	1.00	75.60		
Zapata estribo 1	1	4.00	100.00	1.00	400.00		
	2	34.00	4.18	0.74	210.34	1,152.09	
							1,152.090

680.0030 m² ENCOFRADO VISTO PLANO

ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Estribo 2						
	Muro frontal	2	7.50	100.00		1,500.00	
	Espaldón	1	100.00	1.00		100.00	
	Aletas	1	14.00	3.00		42.00	
		1	14.00	6.00		84.00	
	Estribo 1						
	Muro frontal	2	7.50	100.00		1,500.00	
	Espaldón	1	100.00	1.00		100.00	
	Aletas	2	34.00	4.75		323.00	3,649.00
							3,649.000

610.0100 m³ HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS

HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.

Alzado estribo 2							
Muro frontal	1	0.50	100.00	7.50	375.00		
Espaldón	1	100.00	0.30	1.00	30.00		
Aletas	1	14.00	0.65	3.00	27.30		
	1	14.00	0.75	6.00	63.00		
Alzado estribo 1							
Muro frontal	1	0.50	100.00	7.50	375.00		
Espladón	1	100.00	0.30	1.00	30.00		
Aletas	2	34.00	0.55	4.75	177.65	1,077.95	
							1,077.950

600.0010 kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS

ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	Estribo 2						
	Zapata del Estribo 2	1	466.15	80.00		37,292.00	
	Alzados del Estribo 2	1	432.30	130.00		56,199.00	
	Estribo 1						
	Zapata del Estribo 1	1	610.34	80.00		48,827.20	
	Alzados del Estribo 1	1	582.65	130.00		75,744.50	
	Losas de transición	1	330.00	170.00		56,100.00	274,162.70
							274,162.700

690.0050 m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON LÁMINA ASFÁLTICA

IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIONES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFORADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.

	Estribo 2						
	Trasdós muro frontal	1	7.50	100.00		750.00	
	Trasdós espaldón	1	100.00	1.00		100.00	
	Trasdós aletas	1	14.00	3.00		42.00	
		1	14.00	6.00		84.00	
	Estribo 1						
	Trasdós muro frontal	1	7.50	100.00		750.00	
	Trasdós espaldón	1	100.00	1.00		100.00	
	Trasdós aletas	2	34.00	4.75		323.00	2,149.00
							2,149.000

805.0013N1 m² LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD

LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO,

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.						
	Estribo 2						
	Trasdós muro frontal	1	7.500	100.000		750.000	
	Trasdós espaldón	1	100.000	1.000		100.000	
	Trasdós aletas	1	14.000	3.000		42.000	
		1	14.000	6.000		84.000	
	Estribo 1						
	Trasdós muro frontal	1	7.500	100.000		750.000	
	Trasdós espaldón	1	100.000	1.000		100.000	
	Trasdós aletas	2	34.000	4.750		323.000	2,149.000
							2,149.000

SUBAPARTADO 11.2.2.2 Pilas

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

	Pila 1	1	102.00	6.50	3.10	2,055.30	2,055.30
							2,055.300

332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA

RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

	Pila 1	1	102.00	6.50	3.10	2,055.30	

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	A DEDUCIR						
		-1	100.00	4.50	1.10	-495.00	1,560.30
							1,560.300
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA						
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.						
	Pila 1	1	100.00	4.50	0.10	45.00	45.00
							45.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Zapata Pila 1	2	100.00	1.10		220.00	
		2	4.50	1.10		9.90	229.90
							229.900
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS						
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.						
	Zapata de Pila 1	1	100.00	4.50	1.10	495.00	495.00
							495.000
680.0040	m² ENCOFRADO VISTO CURVO						
	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Pila 1	33	2.51	6.41		530.94	530.94
							530.940
610.0100	m³ HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.						
	Pila	33	0.51		6.41	107.88	107.88
							107.880
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
	Zapatas	1	495.00	85.00		42,075.00	
	Alzado de pilas	1	107.88	210.00		22,654.80	64,729.80
							64,729.800
	SUBAPARTADO 11.2.2.3 Tablero						
681.0010	m³ CIMBRA CUAJADA						
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.						
	Vano 1		100.00	13.00	5.50	7,150.00	
	Vano 2		100.00	13.00	5.50	7,150.00	14,300.00
							14,300.000
680.0030	m² ENCOFRADO VISTO PLANO						
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Losa inferior	1	100.00	26.00		2,600.00	
	Tapes frontales	2		28.00	1.00	56.00	2,656.00
							2,656.000
680.0010	m² ENCOFRADO OCULTO PLANO						
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.						
	Tapas estribos	2	100.00		1.00	200.00	200.00
							200.000
601.0010	kg ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL						
	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.						
		1	2,800.00	15.00		42,000.00	42,000.00
							42,000.000
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS						
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.						
		1	2,800.00	115.00		322,000.00	322,000.00
							322,000.000
610.0150	m³ HORMIGÓN PARA PRETENSAR C40/50						
	HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.						
		1	100.00	28.00		2,800.00	2,800.00
							2,800.000
690.0021	m² IMPERMEABILIZACIÓN DE TABLEROS DE PUENTES CON LÁMINA SBS EN SISTEMA MONOCAPA						
	IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIE-						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	ZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.						
		1	100.00	26.00		2,600.00	2,600.00
							2,600.000
695.0020	ud REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO						
	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS						
		1				1.00	1.00
							1.000
695.0120	día PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA						
	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA						
		1				1.00	1.00
							1.000
695.0080	ud REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m						
	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	SUBCAPÍTULO 11.3 REPOSICIÓN DE SERVICIOS						
	APARTADO 11.3.1 LÍNEAS ELÉCTRICAS						
998.0003N2	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE REE EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO						
	PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE REE, SEGÚN VALORACIÓN DE PROYECTO						
		1				1.00	1.00
							1.000
998.0001N2	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO						
	PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO						
		1				1.00	1.00
							1.000
	APARTADO 11.3.2 LÍNEAS TELEFÓNICAS						
998.0002N2	PA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO						
	PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO. SE APLICA LA ORDEN CIRCULAR Nº 276/S.G. DE 1979 SOBRE RELACIONES CON LA COMPAÑÍA TELEFÓNICA NACIONAL DE ESPAÑA, POR LA CUAL EL MINISTERIO DE FOMENTO SE HARÁ CARGO DEL 50% DE LA VALORACIÓN DE LAS REPOSICIONES TELEFÓNICAS Y TELEFÓNICA DEL 50% RESTANTE.						
		0.5				0.50	0.50
							0.500

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	APARTADO 11.3.3 ABASTECIMIENTO DE AGUA						
	SUBAPARTADO 11.3.3.1 SERVIDUMBRE 05.018						
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	65.000			65.000	65.000
							65.000
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm						
	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO						
		1	66.000			66.000	66.000
							66.000
	APARTADO 11.3.4 SANEAMIENTO						
	SUBAPARTADO 11.3.4.1 SERVICIO 06.014						
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE						
	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.						
		3				3.000	3.000
							3.000
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS						
	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.						
		6				6.00	6.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							6.000
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm						
	TUBERÍA DE PVC DE Ø 400 MM						
		1	195.000			195.000	195.000
							195.000
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm						
	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME						
		1	215.000			215.000	215.000
							215.000
	SUBCAPÍTULO 11.4 FIRMES						
211.0020	t BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70						
	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70						
	S/Med.Auxiliar						
	AC22S S	1	66.80			66.80	
	AC32 G	1	93.66			93.66	160.46
							160.460
215.0020	t BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60						
	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.						
	S/Med.Auxiliar	1	37.51			37.51	37.51
							37.510
542.0110	t CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN						
	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.						

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	S/Med.Auxiliar						
	BBTM 11 B	1	45.01			45.01	
	AC22 S	1	73.48			73.48	
	AC32 G	1	93.66			93.66	212.15
							212.150
543.0020	m² MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.						
	S/Med.Auxiliar	1	12,003.33			12,003.33	12,003.33
							12,003.330
542.0050	t MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						
	S/Med.Auxiliar	1	1,670.09			1,670.09	1,670.09
							1,670.090
542.0100	t MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL						
	MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.						
	S/Med.Auxiliar	1	2,341.56			2,341.56	2,341.56
							2,341.560
513.0010	m³ SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA						
	S/Med.Auxiliar	1	2,590.80			2,590.80	2,590.80

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							2,590.800
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO						
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA						
	% sobre volumen	0.1	2,590.80			259.08	259.08
							259.080
213.0040	t EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA						
	EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA.						
	S/Med.Auxiliar	1	9.82			9.82	9.82
							9.820
213.0020	t EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA						
	EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA.						
	S/Med.Auxiliar	1	14.46			14.46	14.46
							14.460
531.0020	t EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO						
	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.						
	S/Med.Auxiliar	1	15.06			15.06	15.06
							15.060
530.0010	t ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO						
	ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.						
	S/Med.Auxiliar	1	225.97			225.97	225.97
							225.970

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
330.0040N1	m³ SUELO ADECUADO DE LA EXCAVACIÓN						
	SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVACIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.						
	S/Med.Auxiliar	1	738.700			738.700	738.700
							738.700
	SUBCAPÍTULO 11.5 SEÑALIZACIÓN Y DEFENSAS						
700.0010	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 10 cm						
	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 10 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	Medición según planos		330.00			330.00	330.00
							330.000
700.0020	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm						
	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	Medición según planos		650.00			650.00	650.00
							650.000
700.0035N2	m MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 40 cm						
	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).						
	Medición según planos		50.000			50.000	50.000

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							50.000
700.0145N1	m² MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.						
	Medición según planos						
		5	1.430			7.150	7.150
							7.150
701.0080	ud SEÑAL CIRCULAR DE 90 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	Medición según planos						
	R-101	3				3.00	
	R-301	2				2.00	
	R-401a	1				1.00	
	R-402	3				3.00	9.00
							9.000
701.0040	ud SEÑAL TRIANGULAR DE 135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	Medición según planos						
	R-1	3				3.00	
	P-4	3				3.00	6.00
							6.000
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DE-						

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	FLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).						
	Medición según planos		180.00			180.00	180.00
							180.000
701.0270	m² PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA2 PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.						
	Medición según planos						
	G1-H8		9.441				9.44
	G2-H8		9.31				9.31
	G3-H8		9.31				9.31
	G4-H8		8.82			8.82	36.88
							36.880
703.0080	ud PANEL DIRECCIONAL DE 160X40 cm, DE CLASE RA2 PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLACTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	Medición según planos	5				5.00	5.00
							5.000
701.0180	ud SEÑAL RECTANGULAR DE 90X135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.						
	Medición según planos						
	S-52b	4				4.00	4.00

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
							4.000
750.0010N1	PA SEÑALIZACIÓN EN DESVÍOS DE CONEXIÓN PROVISIONAL						
	PARTIDA ALZADA A JUSTIFICAR PARA LA SEÑALIZACIÓN PROVISIONAL, TANTO HORIZONTAL COMO VERTICAL, DE LOS DESVÍOS PROVISIONALES QUE SE LLEVEN A CABO DURANTE LA CONSTRUCCIÓN DE LA CONEXIÓN PROVISIONAL						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 12 VARIOS						
999.0257N1	PA.IALIMPIEZA Y TERMINACIÓN DE LAS OBRAS						
	PARTIDA ALZADA DE ABONO ÍNTEGRO DE LIMPIEZA Y TERMINACIÓN DE LAS OBRAS, SEGÚN O.C.15/2003						
		1				1.00	1.00
							1.000
999.0256N1	PA.IAAUDITORÍA DE SEGURIDAD VIAL						
	PA DE ABONO ÍNTEGRO PARA LA EJECUCIÓN DE MEDIDAS COMO CONSECUENCIA DEL INFORME DE AUDITORÍA DE SEGURIDAD VIARIA EN LA FASE INICIAL EN SERVICIO						
		1				1.00	1.00
							1.000

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD
	CAPÍTULO 13 SEGURIDAD Y SALUD						

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

MEDICIONES

CÓDIGO	RESUMEN	UDS	LONGITUD	ANCHURA	ALTURA	PARCIALES	CANTIDAD

2.- CUADROS DE PRECIOS

2.1. CUADRO DE PRECIOS Nº 1

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
001	1000.0001N1	m	RIPADO DE VÍA HASTA 2 M COMPRENDIENDO CORTES DE CARRIL, BATEO Y NIVELACIÓN, INCLUSO HERRAMIENTAS Y MEDIOS AUXILIARES QUE SE PRECISEN, ASÍ COMO LOS MEDIOS DE SEGURIDAD Y PROTECCIÓN REGLAMENTARIOS.	VEINTIDÓS EUROS con OCHENTA CÉNTIMOS	22.80
002	1000.0002N1	m	SUMINISTRO Y MONTAJE DE VÍA , CON CARRIL NUEVO TIPO UIC-54, TRAVIESA NUEVA DE HORMIGÓN CADA 0,6 M CON SUJECIÓN Y ACCESORIOS NECESARIOS, RECTIFICACIÓN Y BATEO NECESARIO HASTA CUMPLIR LAS TOLERANCIAS CORRESPONDIENTES A LA PRIMERA NIVELACIÓN, PERFILADO DE BANQUETAS, LIMPIEZA Y ENRASADO DE PASEOS Y ENTREVÍA HASTA CONSEGUIR LA SECCIÓN TIPO DEFINIDA EN PLANOS.	CUATROCIENTOS SETENTA Y CINCO EUROS con SESENTA Y OCHO CÉNTIMOS	475.68
003	1000.0003N1	m³	BALASTO DE PIEDRA SILÍCEA TIPO 1 EN TOLVA PROCEDENTE DE CANTERA, SUMINISTRADO, TRANSPORTADO, EXTENDIDO, HUMIDIFICADO, COMPACTADO Y NIVELACIÓN Y ACABADO DE LA SUPERFICIE.	CUARENTA Y UN EUROS con CINCUENTA Y TRES CÉNTIMOS	41.53
004	1000.0004N1	m³	CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA I/ EXCAVACIÓN, CARGA Y TRANSPORTE DE MATERIAL HASTA UNA DISTANCIA DE 30 KM, SUMINISTRO DE MATERIAL ASÍ COMO EL CANON Y LOS PERMISOS NECESARIOS, EXTENDIDO, HUMIDIFICACIÓN Y COMPACTACIÓN DEL MATERIAL, NIVELACIÓN Y ACABADO DE LA SUPERFICIE, EJECUCIÓN DE TRAMO DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.	NUEVE EUROS con CUARENTA Y SIETE CÉNTIMOS	9.47
005	1000.0005N1	m³	SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA I/ FABRICACIÓN, SUMINISTRO HASTA UNA DISTANCIA DE 20 KM, MAQUINARIA, EXTENDIDO, HUMIDIFICACIÓN, COMPACTACIÓN, NIVELACIÓN, ACABADO DE SUPERFICIE, EJECUCIÓN DE TRAMOS DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.	CATORCE EUROS con TRECE CÉNTIMOS	14.13

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
006	1000.0007N1	m	LEVANTE DE VÍA DE CUALQUIER TIPO, PREVIAMENTE DESGUARNECIDA O NO, CON CARRILES Y FIJACIÓN DE CUALQUIER TIPO CON O SIN DESLIZANTE, COMPRENDIENDO LA RETIRADA DE CARRILES, TRAVIESAS Y PEQUEÑO MATERIAL, INCLUSO BALASTO, ACOPIO Y CLASIFICACIÓN DE LOS MISMOS, CARGA SOBRE VAGÓN, CLASIFICACIÓN EN PARQUE DEL MATERIAL APROVECHABLE Y TRANSPORTE Y DESCARGA DE PRODUCTOS SOBRANTES EN VERTEDERO Y COMPENSACIÓN POR LA OBLIGACIÓN DE PARALIZACIÓN DE EQUIPOS POR EL PASO DE TRENES.	TREINTA Y TRES EUROS con SESENTA Y TRES CÉNTIMOS	33.63
007	1000.0008N1	m	REPLANTEO DE VÍA DOBLE O ÚNICA, INCLUIDOS TODOS LOS DATOS DE NIVELACIÓN, ALINEACIÓN Y PERALTE, BIEN POR FLECHAS Y DISTANCIA LATERAL, BIEN POR COORDENADAS ABSOLUTAS.	VEINTIÚN EUROS con OCHENTA Y UN CÉNTIMOS	21.81
008	1000.0009N1	m	LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO PREVIO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO PREVIO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN PRIMER LEVANTE, APROBADO ÉSTE POR LA D.O. EN EL ESTADO PREVIO A LA RECEPCIÓN LA VÍA ALCANZARÁ UNA COTA DE -27MM RESPECTO A LA COTA CABEZA DE CARRIL. ESTA ACTIVIDAD INCLUYE TRES LEVANTES Y TRES ESTABILIZADOS, QUE SEGUIRÁN LA SIGUIENTE SECUENCIA: DESCARGA DE BALASTO, PERFILADO, BATEO, ESTABILIZADO, PERFILADO Y BARRIDO.	DIECINUEVE EUROS con OCHENTA Y CUATRO CÉNTIMOS	19.84

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
009	1000.0010N1	ud	SOLDADURA ALUMINOTÉRMICA PARA CALIDAD 260 CON PRECALENTAMIENTO AIRE INDUCIDO Y PROPANO EN PLENA VÍA Y KIT DE SOLDADURA CON CRISOL DE UN SOLO USO PARA UNIONES DE CARRILES SEPARADOS ENTRE SÍ UNA DISTANCIA MENOR O IGUAL A 180 M. COMPRENDE LA MANO DE OBRA NECESARIA PARA LA EJECUCIÓN EN VÍA DE LA SOLDADURA PARA UNIÓN DE CARRILES DE CUALQUIER PERFIL, LONGITUD Y CLASE DE ACERO. INCLUYE: DESMONTAJE DE BRIDAS Y TORNILLOS; AFLOJADO DE LAS SUJECIONES NECESARIAS PARA LA ALINEACIÓN DE LOS CARRILES; RETIRADA DE BALASTO PARA EL MOVIMIENTO LATERAL DE TRAVIESAS; LOS TRABAJOS NECESARIOS PARA LA FORMACIÓN DE LA CALA NOMINAL ADECUADA POR DESPLAZAMIENTO DE CARRILES, INCLUSO CON TENSORES HIDRÁULICOS; LOS CORTES CON TRONZADORA NECESARIOS PARA SANEAMIENTO DE LOS EXTREMOS A SOLDAR; ALINEACIÓN EN PLANTA Y ALZADO DE LOS CARRILES CON LOS EQUIPOS ADECUADOS; KIT DE SOLDADURA Y CONSUMIBLES; DESBASTADO, ESMERILADO DE ACABADO Y ARREGLO DEL PERFIL; MARCADO Y REPOSICIÓN DE TODOS LOS ELEMENTOS DE LA VÍA PARA QUE ÉSTA QUEDE EN ÓPTIMAS CONDICIONES DE SERVICIO; TRABAJO DE AFLOJADO Y POSTERIOR APRETADO DE LAS SUJECIONES DE LAS TRAVIESAS COLATERALES DE LA SOLDADURA PARA AMINORAR LAS TENSIONES PROVOCADAS POR LA RETRACCIÓN DE LA SOLDADURA; TRABAJOS AUXILIARES; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF.		390.62

TRESCIENTOS NOVENTA EUROS con SESENTA Y DOS CÉNTIMOS

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
010	1000.0011N1	m	LIBERACIÓN DE TENSIONES EN BARRA LARGA SOLDADA. INCLUYE: MANO DE OBRA PARA EL AFLOJADO DE SUJECIONES EN LA LONGITUD DE VÍA A TRATAR; FORMACIÓN DE PUNTOS FIJOS; COLOCACIÓN DE RODILLOS ENTRE EL CARRIL Y LA TRAVIESA ASÍ COMO SU POSTERIOR RETIRADA (QUITANDO LA PLACA DE ASIENTO Y VOLVIENDO A COLOCARLA), PARA FAVORECER EL DESLIZAMIENTO LONGITUDINAL DE LOS CARRILES CON PEQUEÑOS GOLPES PERCUTIDOS CON MARTILLOS DE MADERA O NYLON; MARCADO DE PUNTOS CADA 50M EN TRAVIESA Y CARRIL PARA EL CONTROL DEL DESPLAZAMIENTO DE LAS SEMIBARRAS; FORMACIÓN DE LA CALA DEFINITIVA CON TENSORES HIDRÁULICOS; APRETADO DE LA SUJECIÓN CON MOTOCLAVADORAS HIDRÁULICAS, QUE CUENTE CON ACEPTACIÓN DE USO DE ADIF, DOTADAS DE PAR DE APRIETE AJUSTADO AL TIPO DE SUJECIÓN TRATADA; MATERIALES Y CONSUMIBLES SITUADOS A PIE DE OBRA; CONTROL DE LA TEMPERATURA DEL ELEMENTO REPARADO; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF; LA ENTREGA DEL ACTA DE NEUTRALIZACIÓN SEGÚN N.A.V. NO SE INCLUYEN NI LOS CORTES NI LAS SOLDADURAS DE CARRIL. EL ABONO DE LA TOTALIDAD DEL IMPORTE CORRESPONDIENTE A ESTA UNIDAD ESTARÁ CONDICIONADO A LA REALIZACIÓN DE LAS COMPROBACIONES, MEDICIONES Y / O INSPECCIONES DESCRITAS EN LA NORMATIVA VIGENTE.		5.59

CINCO EUROS con CINCUENTA Y NUEVE CÉNTIMOS

011	1000.0012N1	m	LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN ESTADO PREVIO DE LA RECEPCIÓN, APROBADO ÉSTE POR LA D.O. Y TRAS HABER LLEVADO A CABO LA NEUTRALIZACIÓN DE TENSIONES. INCLUYE LAS OPERACIONES DE LEVANTE DESDE LA FASE DE ESTADO PREVIO DE RECEPCIÓN HASTA LA COTA DEFINITIVA, DEJANDO LA VÍA COLOCADA EN PLANTA Y ALZADO.		8.63

OCHO EUROS con SESENTA Y TRES CÉNTIMOS

012	1000.0013N1	h	PILOTO DE VÍA, PARA TRABAJOS CERCA DE LAS VÍAS DE FERROCARRIL		52.45

CINCUENTA Y DOS EUROS con CUARENTA Y CINCO CÉNTIMOS

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
013	1000.0101N1	m	CANALETA PREFABRICADA PARA CABLES DE DIMENSIONES 400 X 290 MM CON TAPA ARMADA I/ EJECUCIÓN DE ZANJA Y MATERIAL FILTRANTE	CINCUENTA Y UN EUROS con SESENTA Y SEIS CÉNTIMOS	51.66
014	1000.0102N1	ud	ARQUETA DE HORMIGÓN PARA CABLES	TRESCIENTOS NOVENTA Y OCHO EUROS con VEINTICUATRO CÉNTIMOS	398.24
015	1102.0050	m	SUMINISTRO Y MONTAJE DE CABLE DE 2 PARES TRENZADOS DE CALIBRE 2X2,5 MM2 CON BLINDAJE DE COBRE ESTAÑADO, COBERTURA >65%. RESISTENCIA>120 OHMIOS /KM, IMPEDANCIA CARACTERÍSTICA DE 100-120 OHMIOS. CAPACIDAD ELÉCTRICA ENTRE CONDUCTORES <60 PF/M . CONDUCTOR Y BLINDAJE <100PF/M. NO PROPAGADOR DE LLAMA NI INCENDIO, LIBRE DE HALÓGENO, BAJA EMISIÓN DE HUMOS OPACOS Y BAJA CORROSIVIDAD. INCLUYE ROTULACIÓN Y TODOS LOS TRABAJOS, MATERIALES Y MEDIOS AUXILIARES PARA DEJAR LA UNIDAD TOTALMENTE INSTALADA PROBADA EN PERFECTO ESTADO DE FUNCIONAMIENTO SEGÚN PLANOS Y DEMÁS DOCUMENTOS DEL PROYECTO, INDICACIONES DE LA DF Y NORMATIVA VIGENTE.	SETECIENTOS NOVENTA EUROS con OCHENTA Y SIETE CÉNTIMOS	790.87
016	1102.0051	m	EJECUCIÓN DE BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN (10<H<12 M) INCLUIDO EXCAVACIÓN, HORMIGÓN DE LIMPIEZA, HORMIGÓN PARA ZAPATA DE CIMENTACIÓN, ARMADURAS EN CASO NECESARIO, ENCOFRADO, IMPERMEABILIZACIÓN CON BREA, RELLENO LOCALIZADO PERNOS DE ANCLAJE Y TODAS LAS OPERACIONES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN SIGUIENDO INSTRUCCIONES DE LA DIRECCIÓN FACULTATIVA.	DOSCIENTOS CINCUENTA Y CUATRO EUROS con SESENTA Y NUEVE CÉNTIMOS	254.69
017	202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA	CIENTO SEIS EUROS	106.00

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
018	211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70	SEISCIENTOS OCHENTA Y NUEVE EUROS	689.00
019	213.0020	t	EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA.	QUINIENTOS OCHENTA Y DOS EUROS con CINCUENTA Y NUEVE CÉNTIMOS	582.59
020	213.0040	t	EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA.	SEISCIENTOS OCHENTA Y DOS EUROS con CUARENTA Y SEIS CÉNTIMOS	682.46
021	215.0020	t	BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.	SETECIENTOS SETENTA Y TRES EUROS con OCHENTA CÉNTIMOS	773.80
022	290.0090	m²	GEOTEXTIL FORMADO 100 % POR FIBRAS DE POLIPROPILENO VIRGEN TIPO 9 I/ P.P. DE SOLAPES, TOTALMENTE COLOCADO COMO PROTECCIÓN, Y CON LAS SIGUIENTES PROPIEDADES FÍSICAS: RESISTENCIA A LA TRACCIÓN LONGITUDINAL DE MÁS DE 34,9 KN/M, RESISTENCIA A LA TRACCIÓN TRANSVERSAL DE MÁS DE 43,7 KN/M, ELONGACIÓN LONGITUDINAL EN ROTURA DE MÁS DE 65%, ELONGACIÓN TRANSVERSAL EN ROTURA DE MÁS DE 75%, PUNZONAMIENTO ESTÁTICO (CBR) DE MÁS DE 6910 N, PERFORACIÓN DINÁMICA (CAIDA CONO) DE MENOS DE 5,5 MM Y PERMEABILIDAD AL AGUA DE MÁS DE 19,1 10-6/M²/S.	SIETE EUROS con CUARENTA Y TRES CÉNTIMOS	7.43
023	290.0090N1	m²	GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.	SEIS EUROS con SETENTA Y CUATRO CÉNTIMOS	6.74

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
024	300.0010	m²	DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS I/ DESTOCONADO, ARRANQUE, CARGA Y TRANSPORTE A VERTEDERO O GESTOR AUTORIZADO DE AQUELLOS RESTOS QUE SEA NECESARIO, HASTA UNA DISTANCIA DE 60 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	CERO EUROS con CINCUENTA Y SIETE CÉNTIMOS	0.57
025	301.0010	m³	DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE I/ DEMOLICIÓN DE LA CIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	NUEVE EUROS con TREINTA CÉNTIMOS	9.30
026	301.0020	m³	DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	TREINTA Y TRES EUROS con SIETE CÉNTIMOS	33.07
027	301.0030	m³	DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	TREINTA EUROS con VEINTE CÉNTIMOS	30.20
028	301.0040	m²	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	TRES EUROS con NOVENTA CÉNTIMOS	3.90
029	301.0050	m³	DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	VEINTICINCO EUROS con CUARENTA Y CINCO	25.45

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CÉNTIMOS	
030	301.0120	m	LEVANTAMIENTO DE VALLAS METÁLICAS I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	TRES EUROS con OCHENTA Y DOS CÉNTIMOS	3.82
031	301.0125N1	ud	LEVANTAMIENTO DE SEÑAL DE TRÁFICO I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	CUATRO EUROS con SEIS CÉNTIMOS	4.06
032	301.0130	m	LEVANTAMIENTO DE BARRERA METÁLICA BIONDA I/ DESMONTAJE, ARRANQUE DE POSTES, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	CINCO EUROS con TREINTA Y DOS CÉNTIMOS	5.32
033	301.0133N1	m	LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.	TRESCIENTOS DIECISÉIS EUROS con OCHENTA Y SEIS CÉNTIMOS	316.86
034	306.0060	m	PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS, CON DIÁMETROS COMERCIALES Ø<120MM CON EXTRACCIÓN CONTINUA DE TESTIGO I/ SUMINISTRO DE AGUA Y TESTIFICACIÓN IN SITU POR TÉCNICO COMPETENTE.	CINCUENTA Y CINCO EUROS	55.00
035	306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE		190.19

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CIENTO NOVENTA EUROS con DIECINUEVE CÉNTIMOS	
036	306.0230	m	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.		33.00
				TREINTA Y TRES EUROS	
037	306.0250	ud	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.		600.00
				SEISCIENTOS EUROS	
038	306.0280N1	ud	REGISTRADOR ELECTRÓNICO Y AUTÓNOMO PARA MEDIDA DE LAS VARIACIONES PRESIÓN ATMOSFÉRICA Y COMPENSACIÓN EN LAS MEDIDAS DE VARIACIONES DE NIVEL DE AGUA, INCLUSO SUMINISTRO E INSTALACIÓN, INCLUIDO CABLE DE ACERO INOXIDABLE TRENZADO DE 2 MM DE DIÁMETRO PARA REGISTRADOR DE PRESIÓN, ACCESORIOS NECESARIOS Y CAMPAÑA DE RECOGIDA DE DATOS EN CAMPO, INCLUSO LECTURA, DESCARGA Y PROGRAMACIÓN DE REGISTRADORES DE NIVEL EN SONDEOS Y REDACCIÓN DE NOTA TÉCNICA CORRESPONDIENTE.		1,800.53
				MIL OCHOCIENTOS EUROS con CINCUENTA Y TRES CÉNTIMOS	
039	306.0290	m	PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, SEGÚN UNEENISO22476-2, Y ENSAYO BORRO, SEGÚN UNE 103809, A CUALQUIER PROFUNDIDAD.		22.00
				VEINTIDÓS EUROS	
040	306.0320	ud	CALICATA MANUAL O MECÁNICA, INCLUSO FOTOGRAFÍAS EN COLOR Y REPOSICIÓN, I/ TESTIFICACIÓN "IN SITU" A CARGO DE TÉCNICO EXPERTO.		125.00
				CIENTO VEINTICINCO EUROS	
041	306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.		104.56
				CIENTO CUATRO EUROS con CINCUENTA Y SEIS CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
042	306.1301N1	ud	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS		214.61
				DOSCIENTOS CATORCE EUROS con SESENTA Y UN CÉNTIMOS	
043	306.1320N1	ud	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.		170.64
				CIENTO SETENTA EUROS con SESENTA Y CUATRO CÉNTIMOS	
044	306.1330N1	m	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.		26.66
				VEINTISÉIS EUROS con SESENTA Y SEIS CÉNTIMOS	
045	307.0080	m²	BARRERA DINÁMICA PARA LA RETENCIÓN DE DESPRENDIMIENTOS ROCOSOS. CAPACIDAD DE ABSORCIÓN DE ENERGÍA = 500 KJ. CONSTRUIDA Y ENSAYADA SEGÚN RECOMENACIÓN DE LA GUIA ETAG 027, EAD 340059-00 O ANALOGOS Y CON MARCADO CE. ALTURA DE 2,0 A 2,5 M, CON UNA SEPARACIÓN ENTRE POSTES DE SOSTENIMIENTO DE 8 A 12 METROS MÁXIMO Y CERRAMIENTO POR MEDIO DE RED DE CABLE O RED DE ANILLOS Y/O MALLAS DE ACERO GALVANIZADO DE DIMENSIONES EQUIVALENTES, COMPLETAMENTE TERMINADA.		270.14
				DOSCIENTOS SETENTA EUROS con CATORCE CÉNTIMOS	
046	308.0151N1	ud	ENSAYO SÓNICO EN PILOTES		81.36
				OCHENTA Y UN EUROS con TREINTA Y SEIS CÉNTIMOS	
047	320.0010	m³	EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.		2.50
				DOS EUROS con CINCUENTA CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
048	320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	CUATRO EUROS con VEINTICINCO CÉNTIMOS	4.25
049	320.0090	m³	EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLOSIVOS, CONSIDERÁNDOSE TRABAJO DE RETALUZADO CUANDO LA ALTURA ENTRE EL PIE DEL TALUD, EN EL MOMENTO DE EFECTUAR EL TRABAJO, Y LA CORONACIÓN DEL MISMO SEA IGUAL O SUPERIOR A 8 M I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	DOS EUROS con NOVENTA Y CUATRO CÉNTIMOS	2.94
050	320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	SESENTA EUROS con OCHO CÉNTIMOS	60.08
051	320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	CIENTO VEINTE EUROS con DIECISÉIS CÉNTIMOS	120.16
052	321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.		6.70

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SEIS EUROS con SETENTA CÉNTIMOS	
053	322.0010	m²	PRECORTE PARA TALUDES EN ROCA PARA CUALQUIER INCLINACIÓN DEL TALUD (INCLUSO ESCALONADO EN CIMIENTOS EN ROCA) CON TALADROS I/ EJECUCIÓN DE TALADROS, REGULARIZACIÓN O SANEO TRAS REALIZAR EL PRECORTE.	DIEZ EUROS con SETENTA Y UN CÉNTIMOS	10.71
054	330.0020	m³	TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO. (EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).	UN EUROS con DIEZ CÉNTIMOS	1.10
055	330.0040N1	m³	SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVACIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.	TRES EUROS con VEINTE CÉNTIMOS	3.20
056	330.0050	m³	SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE I/ CANON DE CANTERA, EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.	SEIS EUROS con SETENTA Y CUATRO CÉNTIMOS	6.74
057	332.0010	m3	RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN.		17.48

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				DIECISIETE EUROS con CUARENTA Y OCHO CÉNTIMOS	
058	332.0011N1	m3	RELLENO ESPECIAL EN CUÑA DE TRANSICIÓN I/ CARGA Y TRANSPORTE DE MATERIAL		11.82
				ONCE EUROS con OCHENTA Y DOS CÉNTIMOS	
059	332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).		3.47
				TRES EUROS con CUARENTA Y SIETE CÉNTIMOS	
060	332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).		6.70
				SEIS EUROS con SETENTA CÉNTIMOS	
061	332.1000	m³	RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANULAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 MM DE GRANULOMETRÍA Y FIELTRO DE POLIPROPILENO CON UN PESO MÍNIMO DE 80G/M2 PARA TODAS LAS PERMEABILIDADES		22.24
				VEINTIDÓS EUROS con VEINTICUATRO CÉNTIMOS	
062	342.0040	m²	PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 MM Y DIÁMETRO HASTA 2,4 MM, ANCLADA CON BARRAS DE ACERO CORRUGADAS Y SUJETA CON PIQUETAS DE ANCLAJE.		12.86
				DOCE EUROS con OCHENTA Y SEIS CÉNTIMOS	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
063	342.0200	m	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.		27.21
				VEINTISIETE EUROS con VEINTIÚN CÉNTIMOS	
064	342.0230	m	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.		44.69
				CUARENTA Y CUATRO EUROS con SESENTA Y NUEVE CÉNTIMOS	
065	400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN		106.15
				CIENTO SEIS EUROS con QUINCE CÉNTIMOS	
066	400.0020N1	m	CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS		33.66
				TREINTA Y TRES EUROS con SESENTA Y SEIS CÉNTIMOS	
067	400.0020N2	m³	HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS.		115.23
				CIENTO QUINCE EUROS con VEINTITRÉS CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
068	400.0021N1	m	CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-2, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS		49.49
				CUARENTA Y NUEVE EUROS con CUARENTA Y NUEVE CÉNTIMOS	
069	410.0021N1	ud	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.		307.06
				TRESCIENTOS SIETE EUROS con SEIS CÉNTIMOS	
070	410.0022N1	ud	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 1,20 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.		475.07
				CUATROCIENTOS SETENTA Y CINCO EUROS con SIETE CÉNTIMOS	
071	410.0023N1	ud	ARQUETA SUMIDERO CON UNAS DIMENSIONES DE 40 X 40 Y 50 CM DE PROFUNDIDAD, CON REJILLA Y CERCO DE FUNDICIÓN, REALIZADA CON BLOQUE HUECO DE HORMIGÓN VIBRADO DE 9 X 25 X 50 CM, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON ESQUINAS A MEDIA CAÑA, INCLUSO EXCAVACIÓN Y TRANSPORTE DE ESCOMBROS A VERTEDERO AUTORIZADO. TOTALMENTE EJECUTADA Y ACABADA SEGÚN NORMAS DE LA DIRECCIÓN FACULTATIVA.		93.79
				NOVENTA Y TRES EUROS con SETENTA Y NUEVE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
072	410.0024N1	ud	ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.		654.65
				SEISCIENTOS CINCUENTA Y CUATRO EUROS con SESENTA Y CINCO CÉNTIMOS	
073	410.0026N1	ud	ARQUETA SIFÓNICA DE HORMIGÓN ARMADO DE 1,20 X 1,45 X 1,45 M DE DIMENSIONES INTERIORES, I/ TAPA, TOTALMENTE COLOCADA EN TÚNEL.		568.03
				QUINIENTOS SESENTA Y OCHO EUROS con TRES CÉNTIMOS	
074	410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.		726.46
				SETECIENTOS VEINTISÉIS EUROS con CUARENTA Y SEIS CÉNTIMOS	
075	411.0010N1	ud	SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.		92.55
				NOVENTA Y DOS EUROS con CINCUENTA Y CINCO CÉNTIMOS	
076	411.0011N1	ud	SUMIDERO, CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.		105.30
				CIENTO CINCO EUROS con TREINTA CÉNTIMOS	
077	411.0011N2	ud	SUMIDERO SIFÓNICO CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.		70.54
				SETENTA EUROS con CINCUENTA Y CUATRO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
078	411.0012N1	ud	REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.		320.31
				TRESCIENTOS VEINTE EUROS con TREINTA Y UN CÉNTIMOS	
079	411.0013N1	m	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS		64.40
				SESENTA Y CUATRO EUROS con CUARENTA CÉNTIMOS	
080	411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO		10.55
				DIEZ EUROS con CINCUENTA Y CINCO CÉNTIMOS	
081	413.0010	m	CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.		52.72
				CINCUENTA Y DOS EUROS con SETENTA Y DOS CÉNTIMOS	
082	413.0010N1	m	CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.		45.81
				CUARENTA Y CINCO EUROS con OCHENTA Y UN CÉNTIMOS	
083	413.0010N4	m	CAZ PREFABRICADO DE DIÁMETRO EQUIVALENTE 400 MM PARA TÚNEL, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, I/ PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.		100.54
				CIEN EUROS con CINCUENTA Y CUATRO CÉNTIMOS	
084	413.0012N1	ud	TAPA DE FUNDICIÓN, C-250, DE 700 MM DE DIÁMETRO, I/ SUMINISTRO Y COLOCACIÓN.		58.96

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CINCUENTA Y OCHO EUROS con NOVENTA Y SEIS CÉNTIMOS	
085	413.0030	m	DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD		28.87
				VEINTIOCHO EUROS con OCHENTA Y SIETE CÉNTIMOS	
086	414.0020	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 300MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN		56.75
				CINCUENTA Y SEIS EUROS con SETENTA Y CINCO CÉNTIMOS	
087	414.0030	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN		65.07
				SESENTA Y CINCO EUROS con SIETE CÉNTIMOS	
088	414.0040	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN		65.77
				SESENTA Y CINCO EUROS con SETENTA Y SIETE CÉNTIMOS	
089	414.0060	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN		81.96
				OCHENTA Y UN EUROS con NOVENTA Y SEIS CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
090	414.0090	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	NOVENTA Y OCHO EUROS con SETENTA Y CUATRO CÉNTIMOS	98.74
091	414.0110	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 800MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	CIENTO CUARENTA EUROS con SETENTA Y SEIS CÉNTIMOS	140.76
092	414.0120	m	COLECTOR ENTERRADO, FORMADO POR TUBO DE HORMIGÓN ARMADO PARA SANEAMIENTO SIN PRESIÓN, FABRICADO POR COMPRESIÓN RADIAL, CLASE 135, CARGA DE ROTURA 135 KN/M², DE 1000 MM DE DIÁMETRO NOMINAL (INTERIOR), UNIÓN POR ENCHUFE Y CAMPANA CON JUNTA ELÁSTICA. EL PRECIO INCLUYE LOS EQUIPOS Y LA MAQUINARIA NECESARIOS PARA EL DESPLAZAMIENTO Y LA DISPOSICIÓN EN OBRA DE LOS ELEMENTOS, PERO NO INCLUYE LA EXCAVACIÓN NI EL RELLENO PRINCIPAL.	DOSCIENTOS VEINTISIETE EUROS con VEINTITRÉS CÉNTIMOS	227.23
093	414.0210	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	TRESCIENTOS SETENTA Y DOS EUROS con CINCUENTA Y SIETE CÉNTIMOS	372.57
094	414.0240	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	QUINIENTOS NUEVE EUROS con OCHENTA Y SIETE CÉNTIMOS	509.87

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
095	415.0008N1	ud	BOQUILLA Y ALETAS PARA TUBO DE 30 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.	MIL VEINTICINCO EUROS con OCHENTA Y OCHO CÉNTIMOS	1,025.88
096	415.0010N1	ud	BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.	MIL CIENTO SEIS EUROS con SESENTA Y NUEVE CÉNTIMOS	1,106.69
097	415.0015N1	ud	BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.	MIL CIENTO SETENTA Y DOS EUROS con SETENTA Y SIETE CÉNTIMOS	1,172.77
098	415.0020N1	ud	BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.	MIL DOSCIENTOS CUARENTA Y SEIS EUROS con OCHENTA Y CINCO CÉNTIMOS	1,246.85
099	415.0030N1	ud	BOQUILLA Y ALETAS PARA TUBO DE 80 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.	MIL TRESCIENTOS NOVENTA Y CINCO EUROS con VEINTITRÉS CÉNTIMOS	1,395.23
100	417.0010	m	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	OCHO EUROS con SESENTA Y DOS CÉNTIMOS	8.62

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
101	417.0030	m	TUBO DE PVC DE DIÁMETRO 160MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	QUINCE EUROS con TREINTA Y SEIS CÉNTIMOS	15.36
102	417.0031N1	m	TUBO DE PVC DE DIÁMETRO 100MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	ONCE EUROS con TREINTA Y SEIS CÉNTIMOS	11.36
103	417.0040	m	TUBO DE PVC DE DIÁMETRO 250MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	DIECINUEVE EUROS con TREINTA Y SIETE CÉNTIMOS	19.37
104	418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO	SIETE EUROS con TRECE CÉNTIMOS	7.13
105	424.0020	m	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.	DIECISÉIS EUROS con VEINTIÚN CÉNTIMOS	16.21

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
106	424.0028N1	m	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.	DIECIOCHO EUROS con SETENTA Y SIETE CÉNTIMOS	18.77
107	430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES	VEINTICINCO EUROS con CINCO CÉNTIMOS	25.05
108	430.0020	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES	TREINTA Y SEIS EUROS con CUARENTA Y SEIS CÉNTIMOS	36.46
109	510.0010	m³	ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.	VEINTISÉIS EUROS con SETENTA Y OCHO CÉNTIMOS	26.78
110	512.0110	m³	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.	CINCO EUROS con CINCUENTA Y TRES CÉNTIMOS	5.53
111	513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA		16.45

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				DIECISÉIS EUROS con CUARENTA Y CINCO CÉNTIMOS	
112	530.0010	t	ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.		18.29
				DIECIOCHO EUROS con VEINTINUEVE CÉNTIMOS	
113	530.0010N1	t	ÁRIDO DE CANTERA PARA RIEGOS CON GRAVILLA, I/ LA EXTENSIÓN, TOTALMENTE TERMINADO.		18.38
				DIECIOCHO EUROS con TREINTA Y OCHO CÉNTIMOS	
114	530.0020	t	EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.		491.36
				CUATROCIENTOS NOVENTA Y UN EUROS con TREINTA Y SEIS CÉNTIMOS	
115	531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.		624.16
				SEISCIENTOS VEINTICUATRO EUROS con DIECISÉIS CÉNTIMOS	
116	531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.		657.43
				SEISCIENTOS CINCUENTA Y SIETE EUROS con CUARENTA Y TRES CÉNTIMOS	
117	533.0020	m²	DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.		2.19
				DOS EUROS con DIECINUEVE CÉNTIMOS	
118	542.0010	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL, TOTALMENTE EXTENDIDA Y COMPACTADA.		30.61
				TREINTA EUROS con SESENTA Y UN CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
119	542.0050	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.		29.35
				VEINTINUEVE EUROS con TREINTA Y CINCO CÉNTIMOS	
120	542.0100	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.		29.38
				VEINTINUEVE EUROS con TREINTA Y OCHO CÉNTIMOS	
121	542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.		59.86
				CINCUENTA Y NUEVE EUROS con OCHENTA Y SEIS CÉNTIMOS	
122	543.0020	m²	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.		2.68
				DOS EUROS con SESENTA Y OCHO CÉNTIMOS	
123	550.0010	m³	PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-45 TOTALMENTE TERMINADO, P.P. ARMADURA, JUNTAS Y CURADO CON PRODUCTO FILMÓGENO.		246.55
				DOSCIENTOS CUARENTA Y SEIS EUROS con CINCUENTA Y CINCO CÉNTIMOS	
124	551.0010	m³	HORMIGÓN MAGRO VIBRADO EN BASE DE FIRME, COMPLETAMENTE TERMINADO I/ CURADO		88.50
				OCHENTA Y OCHO EUROS con CINCUENTA CÉNTIMOS	
125	551.0020N1	m²	ACABADO FINAL (DENUDADO) DE PAVIMENTO CONSISTENTE EN APLICACIÓN DE RETARDADOR DE FRAGUADO Y LÁMINA DE PLÁSTICO EN SUPERFICIE DEL HORMIGÓN DE PAVIMENTO, PARA POSTERIOR BARRIDO Y LAVADO CON AGUA Y EXTENSIÓN DE CAPA FILMÓGENA DE CURADO		1.96

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				UN EUROS con NOVENTA Y SEIS CÉNTIMOS	
126	570.0050N1	m	SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.		15.16
				QUINCE EUROS con DIECISÉIS CÉNTIMOS	
127	570.0051N1	m	SUMINISTRO Y COLOCACIÓN DE BORDILLO MONTABLE DE HORMIGÓN PREFABRICADO 22 X 20 CM TIPO II, SOBRE BASE DE HORMIGÓN HM-20, INCLUSO MORTERO DE ASIENTO Y REJUNTADO.		15.69
				QUINCE EUROS con SESENTA Y NUEVE CÉNTIMOS	
128	571.0010N1	m²	PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.		50.62
				CINCUENTA EUROS con SESENTA Y DOS CÉNTIMOS	
129	600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.		1.81
				UN EUROS con OCHENTA Y UN CÉNTIMOS	
130	601.0010	kg	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.		4.91
				CUATRO EUROS con NOVENTA Y UN CÉNTIMOS	
131	610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.		66.48
				SESENTA Y SEIS EUROS con CUARENTA Y OCHO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
132	610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.		56.71
				CINCUENTA Y SEIS EUROS con SETENTA Y UN CÉNTIMOS	
133	610.0020	m³	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.		86.69
				OCHENTA Y SEIS EUROS con SESENTA Y NUEVE CÉNTIMOS	
134	610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.		99.75
				NOVENTA Y NUEVE EUROS con SETENTA Y CINCO CÉNTIMOS	
135	610.0050	m³	HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, Llosas, MUROS Y MARCOS.		104.31
				CIENTO CUATRO EUROS con TREINTA Y UN CÉNTIMOS	
136	610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.		109.05
				CIENTO NUEVE EUROS con CINCO CÉNTIMOS	
137	610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.		113.62
				CIENTO TRECE EUROS con SESENTA Y DOS CÉNTIMOS	
138	610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.		116.89
				CIENTO DIECISÉIS EUROS con OCHENTA Y NUEVE CÉNTIMOS	
139	610.0130	m³	HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.		121.35
				CIENTO VEINTIÚN EUROS con TREINTA Y CINCO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
140	610.0150	m³	HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.	CIENTO CUARENTA Y DOS EUROS con SETENTA Y DOS CÉNTIMOS	142.72
141	614.0030	m	VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.	MIL CUATROCIENTOS SESENTA Y CUATRO EUROS con OCHENTA Y UN CÉNTIMOS	1,464.81
142	617.0031N1	m	BARRERA DE SEGURIDAD DE HORMIGÓN PREFABRICADO, TIPO DB 80 AS (NEW JERSEY), INCLUYENDO SUMINISTRO, TRANSPORTE Y COLOCACIÓN, TOTALMENTE TERMINADA.	SESENTA Y SEIS EUROS con OCHENTA Y CINCO CÉNTIMOS	66.85
143	617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).	DOSCIENTOS TREINTA Y UN EUROS con SESENTA Y UN CÉNTIMOS	231.61
144	620.0020	kg	ACERO LAMINADO ESTRUCTURAL S275JR EN CHAPAS Y PERFILES LAMINADOS I/ P.P. DE DESPUNTES, CORTE, DOBLADO, SOLDADURAS, TRANSPORTE, POSICIONAMIENTO Y COLOCACIÓN EN OBRA, PROTECCIÓN ANTI-CORROSIÓN TOTALMENTE MONTADO.	TRES EUROS con CINCUENTA Y NUEVE CÉNTIMOS	3.59
145	620.0041N1	kg	ACERO TIPO 1030S INOX. INCLUSO P.P. DE VAINAS, ANCLAJE, TESADO E INYECCIÓN DE MORTERO, TOTALMENTE EJECUTADO	DIECISÉIS EUROS con NOVENTA Y SEIS CÉNTIMOS	16.96

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
146	620.0043N1	kg	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.	DIEZ EUROS con DIECINUEVE CÉNTIMOS	10.19
147	630.0020	m²	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.	DOSCIENTOS VEINTIÚN EUROS con SESENTA Y CINCO CÉNTIMOS	221.65
148	630.300M1	m²	LOSA DE GRANITO	SETENTA Y OCHO EUROS con TRECE CÉNTIMOS	78.13
149	630.3010	m²	PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.	OCHENTA Y CINCO EUROS con NOVENTA Y DOS CÉNTIMOS	85.92
150	658.0010	m³	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.	TREINTA Y SIETE EUROS con DIEZ CÉNTIMOS	37.10
151	658.0020	m³	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.	CUARENTA Y TRES EUROS con VEINTIDÓS CÉNTIMOS	43.22
152	658.0070N1	m³	RECUBRIMIENTO SUPERFICIAL DE ESCOLLERA COLOCADA CON BLOQUES DE 300 A 1000 KG (HUSO HMB 300/1000), CONFORME A UNE EN 13383-1.		32.75

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TREINTA Y DOS EUROS con SETENTA Y CINCO CÉNTIMOS	
153	658.0080	m³	MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (USO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1 I/ RELLENO DEL TRASDÓS CON MATERIAL FILTRANTE.		68.11
				SESENTA Y OCHO EUROS con ONCE CÉNTIMOS	
154	658.0080N1	m³	MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.		43.76
				CUARENTA Y TRES EUROS con SETENTA Y SEIS CÉNTIMOS	
155	658.0082N1	m³	MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO REGULARES (PARALELEPÍPEDOS) PROCEDENTE DE CANTERA. INCLUYE EL SUMINISTRO Y COLOCACIÓN DE LOS BLOQUES DE PIEDRA, EJECUCIÓN DE JUNTAS ENTRE BLOQUES Y TODOS AQUELLOS TRABAJOS Y MATERIALES NECESARIOS PARA SU COMPLETA TERMINACIÓN.		63.18
				SESENTA Y TRES EUROS con DIECIOCHO CÉNTIMOS	
156	660.0010	m²	ENCACHADO DE PIEDRA EJECUTADO MEDIANTE PIEDRA DE CANTERA PARA ENCACHADO , HORMIGÓN C20/25 Y MORTERO DE CEMENTO PORTLAND MCP-5 DE DOSIFICACIÓN 1:4 SIN INCLUIR ARMADURAS		25.99
				VEINTICINCO EUROS con NOVENTA Y NUEVE CÉNTIMOS	
157	671.0030	m	PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.		55.49
				CINCUENTA Y CINCO EUROS con CUARENTA Y NUEVE CÉNTIMOS	
158	671.1001N1	ud	TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES		3,504.28

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TRES MIL QUINIENTOS CUATRO EUROS con VEINTIOCHO CÉNTIMOS	
159	675.0020	ud	BARRA Ø 20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI I/ PERFORACIÓN, COLOCACIÓN E INYECCIÓN DE RESINA EPOXI, SEGÚN DEFINICIÓN EN PLANOS (LONGITUD < 0,70 M).		19.05
				DIECINUEVE EUROS con CINCO CÉNTIMOS	
160	675.1012N1	m	ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).		98.09
				NOVENTA Y OCHO EUROS con NUEVE CÉNTIMOS	
161	675.1013N1	m	ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).		104.82
				CIENTO CUATRO EUROS con OCHENTA Y DOS CÉNTIMOS	
162	675.1014N1	m	ANCLAJE TIPO 1 (5 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).		94.12
				NOVENTA Y CUATRO EUROS con DOCE CÉNTIMOS	
163	675.1120N1	m	ANCLAJE TIPO 4B (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).		178.50
				CIENTO SETENTA Y OCHO EUROS con CINCUENTA CÉNTIMOS	
164	675.1121N2	m	ANCLAJE TIPO 4B (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).		81.10
				OCHENTA Y UN EUROS con DIEZ CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
165	675.1250	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.	CIENTO SEIS EUROS	106.00
166	675.1260	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.	CIENTO CUARENTA Y CINCO EUROS con NOVENTA Y OCHO CÉNTIMOS	145.98
167	680.0010	m²	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	VEINTIOCHO EUROS con CUARENTA Y CUATRO CÉNTIMOS	28.44
168	680.0030	m²	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	TREINTA Y TRES EUROS con NOVENTA Y UN CÉNTIMOS	33.91
169	680.0040	m²	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	CUARENTA Y CUATRO EUROS con NOVENTA Y CINCO CÉNTIMOS	44.95

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
170	680.1000	ud	TRANSPORTE, MONTAJE Y RETIRADA DEL EQUIPO Y MEDIOS AUXILIARES PARA EJECUCIÓN DE PILOTES DE DIÁMETRO HASTA 1200 MM.	OCHO MIL EUROS	8,000.00
171	681.0010	m³	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.	DOCE EUROS con VEINTIÚN CÉNTIMOS	12.21
172	682.0010	m³	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.	SETENTA Y NUEVE EUROS con DIECIOCHO CÉNTIMOS	79.18
173	690.0010N1	m2	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.	ONCE EUROS con UN CÉNTIMOS	11.01
174	690.0021	m²	IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIEZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.	VEINTITRÉS EUROS con SESENTA Y SEIS CÉNTIMOS	23.66
175	690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.	SIETE EUROS con OCHENTA Y CUATRO CÉNTIMOS	7.84

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
176	690.0050	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIONES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFORADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.	VEINTINUEVE EUROS con DIECISIETE CÉNTIMOS	29.17
177	690.0070	m²	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.	DOS EUROS con TREINTA Y DOS CÉNTIMOS	2.32
178	691.0010N1	m	JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.	DOCE EUROS con CINCUENTA Y CUATRO CÉNTIMOS	12.54
179	692.0100	dm³	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.	VEINTIOCHO EUROS con SETENTA Y SIETE CÉNTIMOS	28.77
180	694.0010	m	JUNTA DE DILATACIÓN PARA TABLERO DE 50 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.	DOSCIENTOS OCHENTA Y SEIS EUROS con TREINTA Y DOS CÉNTIMOS	286.32

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
181	694.0050	m	JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.	SETECIENTOS DIEZ EUROS con VEINTICINCO CÉNTIMOS	710.25
182	695.0010	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS	MIL OCHOCIENTOS DIECINUEVE EUROS con TREINTA Y CINCO CÉNTIMOS	1,819.35
183	695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS	TRES MIL TRESCIENTOS VEINTICUATRO EUROS con SETENTA Y DOS CÉNTIMOS	3,324.72
184	695.0070	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO	SEISCIENTOS NOVENTA Y CINCO EUROS con DIECISIETE CÉNTIMOS	695.17
185	695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M	TRES MIL QUINIENTOS TREINTA Y TRES EUROS con SEIS CÉNTIMOS	3,533.06
186	695.0110N1	Ud	AUSCULTACIÓN E INFORME DE MEDICIONES OBTENIDAS	MIL OCHOCIENTOS NUEVE EUROS con SETENTA Y UN CÉNTIMOS	1,809.71

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
187	695.0120	día	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA	CUATROCIENTOS SESENTA Y CINCO EUROS con CUARENTA Y SIETE CÉNTIMOS	465.47
188	696.0010N1	m²	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.	ONCE EUROS con VEINTISÉIS CÉNTIMOS	11.26
189	696.0120N1	m²	PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.	UN EUROS con VEINTIDÓS CÉNTIMOS	1.22
190	700.0010	m	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 10 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	CERO EUROS con CINCUENTA Y CUATRO CÉNTIMOS	0.54
191	700.0020	m	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	CERO EUROS con SETENTA Y UN CÉNTIMOS	0.71
192	700.0035N1	m	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	UN EUROS con VEINTITRÉS CÉNTIMOS	1.23
193	700.0035N2	m	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	UN EUROS con CINCUENTA Y SIETE CÉNTIMOS	1.57

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
194	700.0100	m	MARCA VIAL TIPO II (RW) DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, DE 10 CM DE ANCHO I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE, PREMARCAJE Y ELIMINACIÓN POSTERIOR (MEDIDA LA LONGITUD REALMENTE PINTADA).	CERO EUROS con TREINTA Y SIETE CÉNTIMOS	0.37
195	700.0130N1	m²	MARCA VIAL DE TIPO II (RW), DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, EN SÍMBOLOS Y CEBREADOS I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA SUPERFICIE REALMENTE PINTADA).	SIETE EUROS con NOVENTA CÉNTIMOS	7.90
196	700.0145N1	m²	MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.	DOCE EUROS con NOVENTA CÉNTIMOS	12.90
197	701.0010	ud	SEÑAL TRIANGULAR DE 175 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	TRESCIENTOS SETENTA Y TRES EUROS con SETENTA Y NUEVE CÉNTIMOS	373.79
198	701.0030N1	ud	SEÑAL TRIANGULAR REFLECTANTE, DE LADO 135 CM, FONDO AMARILLO (PARA DESVÍOS DE OBRA) CON BASE AUTOPORTANTE, INCLUSO COLOCACIÓN, LASTRADO Y RETIRADA FINAL.	CIENTO SESENTA Y SIETE EUROS con OCHENTA Y SEIS CÉNTIMOS	167.86
199	701.0035N1	ud	POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE LA PLACA DE LA SEÑAL	CIENTO TREINTA Y SEIS EUROS con VEINTISIETE CÉNTIMOS	136.27

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
200	701.0040	ud	SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	DOSCIENTOS TREINTA Y CUATRO EUROS con SESENTA Y SIETE CÉNTIMOS	234.67
201	701.0050	ud	SEÑAL CIRCULAR DE 120 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	TRESCIENTOS CINCUENTA EUROS	350.00
202	701.0061N1	ud	SEÑAL CIRCULAR REFLECTANTE DE 120 CM DE DIÁMETRO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	DOSCIENTOS DIECISEIS EUROS con CINCUENTA Y SIETE CÉNTIMOS	216.57
203	701.0080	ud	SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	DOSCIENTOS DIECISIETE EUROS con TREINTA Y DOS CÉNTIMOS	217.32
204	701.0110	ud	SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 CM, RETRORREFLACTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	DOSCIENTOS TREINTA EUROS con TREINTA Y UN CÉNTIMOS	230.31
205	701.0110N1	ud	SEÑAL REFLEXIVA OCTOGONAL DE DOBLE APOTEMA DE 90CM, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	CIENTO OCHENTA Y OCHO EUROS con NOVENTA Y	188.97

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SIETE CÉNTIMOS	
206	701.0120	ud	SEÑAL CUADRADA DE 120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	CUATROCIENTOS VEINTISIETE EUROS con CINCUENTA Y TRES CÉNTIMOS	427.53
207	701.0130N1	ud	SEÑAL CUADRADA REFLECTANTE DE 120 CM DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	DOSCIENTOS OCHENTA Y TRES EUROS con VEINTE CÉNTIMOS	283.20
208	701.0180	ud	SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	TRESCIENTOS OCHENTA Y OCHO EUROS con DOS CÉNTIMOS	388.02
209	701.0190N1	ud	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 1,35 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	CIENTO NOVENTA Y UN EUROS con DOS CÉNTIMOS	191.02
210	701.0195N1	ud	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 0,30 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	CIENTO SETENTA Y UN EUROS con VEINTIDÓS CÉNTIMOS	171.22
211	701.0200	ud	SEÑAL RECTANGULAR DE 60X120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	DOSCIENTOS OCHENTA Y DOS EUROS con TRECE CÉNTIMOS	282.13

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
212	701.0200N2	ud	SEÑAL RECTANGULAR DE 40 X 95 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTES GALVANIZADOS, FIJADOS A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	CIENTO SESENTA Y SEIS EUROS con TREINTA Y SIETE CÉNTIMOS	166.37
213	701.0220	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	CUATROCIENTOS DIECINUEVE EUROS con SESENTA Y CUATRO CÉNTIMOS	419.64
214	701.0225N1	ud	POSTES GALVANIZADOS PARA CARTEL TIPO FLECHA, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE EL CARTEL DEL CHAPA	DOSCIENTOS SESENTA Y CINCO EUROS con TREINTA Y TRES CÉNTIMOS	265.33
215	701.0230	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA2, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	TRESCIENTOS NOVENTA Y SEIS EUROS con CINCUENTA Y UN CÉNTIMOS	396.51
216	701.0240	m²	CARTEL DE CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE DE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	CUATROCIENTOS DIECINUEVE EUROS con SESENTA Y CUATRO CÉNTIMOS	419.64
217	701.0260	m²	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA3 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.	CUATROCIENTOS VEINTIÚN EUROS con VEINTITRÉS CÉNTIMOS	421.23
218	701.0270	m²	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.	TRESCIENTOS NOVENTA Y OCHO EUROS con UN CÉNTIMOS	398.01
219	701.0280	m²	PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO RETRORREFLECTANTE DE CLASE RA3, COLOCADO EN PÓRTICOS O BANDEROLAS I/ TRANSPORTE A LUGAR DE EMPLEO (SIN INCLUIR PÓRTICO O BANDEROLA).	DOSCIENTOS NOVENTA Y TRES EUROS con CUARENTA Y SIETE CÉNTIMOS	293.47
220	701.0283N1	m²	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.	SETENTA Y CINCO EUROS con SESENTA CÉNTIMOS	75.60
221	701.0310	ud	BANDEROLA DE ACERO GALVANIZADO DE HASTA 7,00 M DE BRAZO Y/O HASTA 30 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADA (SIN INCLUIR CARTEL).	CATORCE MIL NOVECIENTOS SETENTA Y NUEVE EUROS con SESENTA Y DOS CÉNTIMOS	14,979.62
222	701.0340	ud	PÓRTICO DE ACERO GALVANIZADO DE HASTA 16,00 M DE LUZ Y/O HASTA 40 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).	TREINTA MIL DOSCIENTOS CINCUENTA EUROS con NOVENTA Y DOS CÉNTIMOS	30,250.92

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

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Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
223	701.0350	ud	PÓRTICO DE ACERO GALVANIZADO DE HASTA 17,00 M DE LUZ Y/O HASTA 60 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).	TREINTA Y UN MIL CIENTO SESENTA Y OCHO EUROS con NUEVE CÉNTIMOS	31,168.09
224	701.0410	ud	HITO KILOMÉTRICO S-570 DE 60X60 CM DE LADO, CON MATERIAL RETRORREFLECTANTE DE CLASE RA3 I/ POSTE, TORNILLERÍA Y CIMENTACIÓN, TOTALMENTE COLOCADO.	CIENTO TREINTA Y OCHO EUROS con SETENTA Y CUATRO CÉNTIMOS	138.74
225	702.0020	ud	CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS.	SIETE EUROS con TREINTA CÉNTIMOS	7.30
226	703.0010	ud	BALIZA CILÍNDRICA CH-75 CON MATERIAL REFLECTANTE CLASE RA2, TOTALMENTE COLOCADA.	CINCUENTA EUROS con CINCO CÉNTIMOS	50.05
227	703.0020	ud	HITO DE VÉRTICE N-120 CON MATERIAL RETRORREFLECTANTE DE CLASE RA2, LASTRADO CON GRAVA O GRAVILLA, TOTALMENTE COLOCADO.	TRESCIENTOS SETENTA Y OCHO EUROS con TREINTA Y SIETE CÉNTIMOS	378.37
228	703.0050	ud	HITO DE ARISTA (DE 155 CM) TIPO II (PARA AUTOPISTA O AUTOVÍA), DE RETRORREFLECTANCIA CLASE RA3, TOTALMENTE COLOCADO, INCLUIDA CIMENTACIÓN.	CATORCE EUROS con SIETE CÉNTIMOS	14.07
229	703.0080	ud	PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLACTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	DOSCIENTOS CUARENTA Y SIETE EUROS con ONCE CÉNTIMOS	247.11

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
230	703.0110	ud	PANEL DIRECCIONAL DE 80X40 CM Y RETRORREFLECTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	CIENTO TREINTA Y SEIS EUROS con DIECIOCHO CÉNTIMOS	136.18
231	703.0150N1	ud	BALIZA LUMINOSA DE BRILLO INTERMITENTE TIPO TL-2 CON CÉLULA FOTOELÉCTRICA DE ACTIVACIÓN, BATERÍA DE ALIMENTACIÓN, INCLUSO INSTALACIÓN Y RETIRADA FINAL.	CIENTO DIECISÉIS EUROS con DIECISIETE CÉNTIMOS	116.17
232	704.0053N1	m	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	CIENTO SIETE EUROS con NUEVE CÉNTIMOS	107.09
233	704.0140N1	m	BARRERA DE OBRA CONTINUA A DOS CARAS DE MATERIAL PLÁSTICO Y 80 CM DE ALTURA, EN MÓDULOS ROJO-BLANCO, INCLUSO CAPTAFAROS INCORPORADOS, UNIDOS MEDIANTE FIJACIONES MACHIHEMBRADAS, INCLUSO RETIRADA FINAL.	CUARENTA Y SIETE EUROS con CINCO CÉNTIMOS	47.05
234	704.0190N1	m	PANTALLA OPACA DE 4 M PARA PROTECCIÓN DE AVES, COMPUESTA POR PERFIL HEB-160 DE ACERO TIPO S 275 JR (NORMA UNE-EN 10025-1:2006) Y DOS PERFILES LPN 70.7 DEL MISMO MATERIAL DE LAS HEB CON TRATAMIENTO ANTICORROSIÓN, DISPUESTOS COMO EN PLANOS I/ PASAMANOS Y P.P. DE TORNILLERÍA Y PLACA DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO Y PINTADO	TRESCIENTOS CINCUENTA Y CUATRO EUROS con TREINTA Y CINCO CÉNTIMOS	354.35

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
235	704.0192N1	m²	PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 MM DE ESPESOR, I/ PARTE PROPORCIONAL DE SUJECCIONES O APOYOS, TOTALMENTE INSTALADA Y COLACADA.	CINCUENTA Y SEIS EUROS con NOVENTA Y DOS CÉNTIMOS	56.92
236	704.0540	m	BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	TREINTA Y CINCO EUROS con NOVENTA Y UN CÉNTIMOS	35.91
237	704.0610	m	BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,10 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	TREINTA Y SIETE EUROS con NOVENTA Y TRES CÉNTIMOS	37.93
238	704.0740	m	BARRERA DE HORMIGÓN PREFABRICADA CON UNA CARA ACTIVA CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1 O INFERIOR, DEFLEXIÓN DINÁMICA 0,10 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	CIENTO VEINTINUEVE EUROS con TREINTA CÉNTIMOS	129.30

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
239	704.0740N1	m	BARRERA DE SEGURIDAD DOBLE DE HORMIGÓN EMBEBIENDO POSTE, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W3 O INFERIOR, DEFLEXIÓN DINÁMICA 0,0 M, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	DOSCIENTOS OCHENTA EUROS con VEINTINUEVE CÉNTIMOS	280.29
240	704.1520	m	BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	SESENTA Y CINCO EUROS con DOS CÉNTIMOS	65.02
241	704.1620	m	BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,20 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	OCHENTA Y SIETE EUROS con SETENTA Y TRES CÉNTIMOS	87.73
242	704.2630	m	BARRERA DE HORMIGÓN PREFABRICADA CON DOBLE CARA ACTIVA CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,60 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).		104.22

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CIENTO CUATRO EUROS con VEINTIDÓS CÉNTIMOS	
243	704.3710	m	BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, DEFLEXIÓN DINÁMICA 0,80 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE BARRERA MÓVIL DE PASO DE MEDIANA (INCLUIR EN PPTP).		666.99
				SEISCIENTOS SESENTA Y SEIS EUROS con NOVENTA Y NUEVE CÉNTIMOS	
244	801.0030N1	m	JALONAMIENTO TEMPORAL DE PROTECCIÓN FORMADO POR SOPORTES ANGULARES METÁLICOS DE 30 MM Y 1 M DE LONGITUD UNIDOS ENTRE SI MEDIANTE UNA CINTA DE SEÑALIZACIÓN DE OBRA Y COLOCADOS CADA 8 M.		0.59
				CERO EUROS con CINCUENTA Y NUEVE CÉNTIMOS	
245	801.0050	m³	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA, EN SUPERFICIES HORIZONTALES.		1.10
				UN EUROS con DIEZ CÉNTIMOS	
246	801.0060	m³	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.		1.54
				UN EUROS con CINCUENTA Y CUATRO CÉNTIMOS	
247	801.0070	m²	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.		1.14
				UN EUROS con CATORCE CÉNTIMOS	
248	801.0070N2	m²	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.		1.13
				UN EUROS con TRECE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
249	801.0073N1	m²	SUMINISTRO Y PROYECCIÓN DE HIDROMULCH EN DOSIS DE 175-230 G/M2 COMPUESTO POR MEZCLA HOMOGÉNEA DE FIBRAS VEGETALES DE MADERA LARGA, ESTABILIZANTE, SEMILLAS, FERTILIZANTES Y DEMÁS ADITIVOS.		1.55
				UN EUROS con CINCUENTA Y CINCO CÉNTIMOS	
250	801.0100	m²	COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.		124.88
				CIENTO VEINTICUATRO EUROS con OCHENTA Y OCHO CÉNTIMOS	
251	801.0100N2	ud	SONDEOS ARQUEOLÓGICOS MANUALES EN LA TRAZA E INFORME.		4,383.10
				CUATRO MIL TRESCIENTOS OCHENTA Y TRES EUROS con DIEZ CÉNTIMOS	
252	801.0230	ud	EJECUCIÓN DE PLANTACIÓN THYMUS VULGARIS (TOMILLO) DE 1/2 SAVIAS EN ALVEOLO FORESTAL DE 300 CC, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.		4.31
				CUATRO EUROS con TREINTA Y UN CÉNTIMOS	
253	801.0360N18	ud	EJECUCIÓN DE PLANTACIÓN ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.		5.84
				CINCO EUROS con OCHENTA Y CUATRO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
254	801.0360N24	ud	EJECUCIÓN DE PLANTACIÓN PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CINCO EUROS con CUARENTA Y SEIS CÉNTIMOS	5.46
255	801.0360N26	ud	EJECUCIÓN DE PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CUATRO EUROS	4.00
256	801.0360N27	ud	EJECUCIÓN DE PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	TRES EUROS con NOVENTA Y DOS CÉNTIMOS	3.92
257	801.0360N34	ud	EJECUCIÓN DE PLANTACIÓN ILEX AQUIFOLIUM (ACEBO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CUATRO EUROS con SESENTA Y CINCO CÉNTIMOS	4.65

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
258	801.0360N35	ud	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	QUINCE EUROS con SETENTA Y TRES CÉNTIMOS	15.73
259	801.0360N36	ud	EJECUCIÓN DE PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CINCO EUROS con DIECISIETE CÉNTIMOS	5.17
260	801.0360N37	ud	EJECUCIÓN DE PLANTACIÓN DE CONIFERAS ENANAS DE LOS GÉNEROS JUNIPERUS, THUYA, PICEA, PINUS, ETC, ..., SEGÚN DISPONIBILIDAD, DE 20-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CINCO EUROS con TREINTA Y DOS CÉNTIMOS	5.32
261	801.0360N38	ud	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	CINCO EUROS con SESENTA Y CINCO CÉNTIMOS	5.65

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
262	801.0380	ud	RIEGO DE ARBUSTOS MEDIANTE CAMIÓN CISTERNA 8000 L I/ CARGA Y TRANSPORTE DESDE PUNTO DE ABASTECIMIENTO HASTA EL LUGAR DE USO.	UN EUROS con OCHENTA Y SEIS CÉNTIMOS	1.86
263	801.0410N1	ud	APORTE Y EXTENDIDO MANUAL DE ABONO MINERAL EN ALCORQUE DE ARBUSTO O MATORRAL BAJO, TIPO NKP 15-15-15, A UNA DOSIS DE 60 G/UD, I/ CARGA Y TRANSPORTE.	CERO EUROS con TREINTA Y CUATRO CÉNTIMOS	0.34
264	801.0423N1	m²	ÁREA DE SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA, MEDIANTE PASE DE SEGADORA DE 1,4 M DE ANCHURA DE CORTE ACOPLADA A LA TOMA DE FUERZA DE TRACTOR JARDINERO DE 60 CV, I/ EL CORTE CON MOTOGUADAÑA DE HILOS DE LAS HERBÁCEAS QUE PROSPERAN EN LOS ACORQUES DE LOS ARBOLES, LOS BORDES DE LOS MACIZOS DE ARBUSTOS UBICADOS EN LAS PRADERA Y CUALQUIER OTRO ELEMENTO U EQUIPAMIENTO. MEDIDA LA SUPERFICIE REAL EJECUTADA SEGUN DEFINICIÓN DE PROYECTO.	UN EUROS con CINCUENTA Y OCHO CÉNTIMOS	1.58
265	801.0450	m	BARANDILLA DE PROTECCIÓN DE AVES, DE ACERO CON TRATAMIENTO ANTICORROSIÓN Y PINTADO, COMPUESTA POR PERFILES TUBULARES DE DIÁMETRO 50 MM DE 3 M DE ALTURA, ALTERNADOS CON DOS PERFILES TUBULARES DE 40 MM DE DIÁMETRO Y 1,10 M DE ALTURA DISPUESTOS COMO EN PLANOS I/ P.P. DE CHAPAS Y ELEMENTOS DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO.	DOSCIENTOS SETENTA Y NUEVE EUROS con OCHENTA Y CUATRO CÉNTIMOS	279.84
266	801.0540N1	ud	PUERTA DE ESCAPE PARA MAMÍFEROS GRANDES DESDE EL INTERIOR DE LAOBRA VALLADA, MEDIANTE MALLA DE ACERO DE SIMPLE TORSIÓN, CON PERFILES YREFUERZOS DE TUBOS DE ACERO GALVANIZADO, COLOCADA.	CIENTO SETENTA Y TRES EUROS con VEINTE CÉNTIMOS	173.20

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
267	801.0550N1	ud	SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES DESDE EL INTERIOR DE LA OBRA VALLADA, INSTALADA EN VALLA DE CERRAMIENTO.	CIENTO SESENTA Y UN EUROS con OCHENTA Y CINCO CÉNTIMOS	161.85
268	801.0570N1	m²	ESCARIFICADO CON MÁQUINA ESCARIFICADORA A MOTOR, INCLUSO RASTRILLADO DE LOS PRODUCTOS DE LA ESCARIFICACIÓN Y RETIRADA DE SOBRANTES.	CERO EUROS con SETENTA Y CINCO CÉNTIMOS	0.75
269	801.0581N1	m²	ESCARDA DE ÁRBOLES Y MACIZOS ARBUSTIVOS CON ACOLCHADO ORGÁNICO, CONSISTENTE EN ARRANQUE, ENTRECAVA Y ELIMINACIÓN DE MALAS HIERBAS EN ÁRBOLES Y ARBUSTOS, I/ REGULARIZACIÓN FINAL DE LAS SUPERFICIE, RECOGIDA DE RESTOS Y TRASNPORTE A ZONA DE COMPOSTAJE. MEDIDA LA SUPERFICIE REALEMENTE EJECUTADA SEGÚN DEFINICIONES DE PROYECTO.	CERO EUROS con OCHENTA Y SIETE CÉNTIMOS	0.87
270	801.0613N1	ud	SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO, CONSISTENTE EN SEÑAL, I/ POSTE METÁLICO GALVANIZADO DE SUSTENTACIÓN Y CIMENTACIÓN COLOCADO	CIENTO OCHENTA Y SEIS EUROS con TREINTA Y OCHO CÉNTIMOS	186.38
271	801.0615N1	m²	PROTECCIÓN DE ESPECIES ARBÓREAS CERCANAS AL TRAZADO MEDIANTE PERÍMETRO EMPALIZADO DE SEIS TABLONES POR PIE	SETENTA Y UN EUROS con OCHO CÉNTIMOS	71.08
272	801.0701N1	ud	DEPÓSITO FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, CON UN DIÁMETRO DE 1,50 M Y UNA ALTURA 2,50 M, PROVISTO DE TAPA SUPERIOR PARA EVITAR EL ENSUCIAMIENTO DEL DEPÓSITO Y ASÍ ELIMINAR POSIBLES AVERÍAS EN LA BOMBA DE FLOCULANTE.	MIL NOVECIENTOS SESENTA Y OCHO EUROS con VEINTIÚN CÉNTIMOS	1,968.21

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
273	801.0702N1	ud	AGITADOR DE FLOCULANTE DE 1.350 RPM CON MOTOREDUCTOR DE 0,37 KW PARA MEZCLAR EL FLOCULANTE CON EL AGUA DE RED.	MIL NOVECIENTOS DIECIOCHO EUROS con NOVENTA Y CUATRO CÉNTIMOS	1,918.94
274	801.0703N1	ud	BOMBA DOSIFICADORA DE PISTÓN DE 0,37 KW, PARA UN CAUDAL DE 204 L/H REGULABLE DE 0% A 100% MEDIANTE REGULADOR DE CARRERA DEL PISTÓN. LA BOMBA ESTÁ PROVISTA DE PREFILTRO PARA PROTECCIÓN DE ENSUCIAMIENTO DE LAS ANTIRRETORNO DE LA MISMA.	MIL NOVECIENTOS SETENTA Y UN EUROS con NOVENTA Y CUATRO CÉNTIMOS	1,971.94
275	801.0704N1	ud	CUADRO DE MANDO Y MANIOBRA PARA FUNCIONAMIENTO EN AUTOMÁTICO.	CUATRO MIL TREINTA Y DOS EUROS con SETENTA Y SIETE CÉNTIMOS	4,032.77
276	801.0705N1	ud	ESTRUCTURA METÁLICA DE SOPORTE EN ACERO AL CARBONO, PENSADA PARA ALBERGAR TANTO EL DEPÓSITO COMO LA BOMBA DE FLOCULANTE, PH-METRO Y CUADRO ELÉCTRICO.	MIL SETECIENTOS TREINTA Y NUEVE EUROS con CATORCE CÉNTIMOS	1,739.14
277	801.0706N1	ud	EQUIPO DE CORRECCIÓN DE PH., COMPUESTO POR: PARRILLA DE 6 DIFUSORES DE BURBUJA FINA PARA DOSIFICACIÓN DE GASES, BY-PASS DE ENTRADA COMPUESTO DE 3 VÁLVULAS MANUALES DE ½" DE BOLA EN AISI 316, ELECTROVÁLVULA DE ACCIONAMIENTO DIRECTO COMANDADA DESDE EL ARMARIO ELÉCTRICO. INSTALACIÓN DE TUBERÍA DE ½" HASTA EL TANQUE DE CO2 O PACK DE BOTELLAS, NO INCLUIDO EL MANOREDUCTOR (LE APORTA EL SUMINISTRADOR DE CO2) Y MEDIDOR DE PH PARA MEDIR EN BALSA DE CORRECCIÓN CON SONDA DE INMERSIÓN Y SALIDA ELECTRÓNICA HASTA PLC DE CONTROL, PARA LA OPTIMIZACIÓN DEL PRODUCTO.	CUATRO MIL NOVECIENTOS SIETE EUROS con OCHO CÉNTIMOS	4,907.08

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
278	801.0707N1	ud	BOMBEO DESDE DEPARTAMENTO DE AGUAS AJUSTADAS HACIA DEPARTAMENTO DE ENTRADA, CONSTITUIDO POR UNA BOMBA SUMERGIBLE, DE 2,2 KW DE POTENCIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	TRES MIL SETECIENTOS TREINTA Y CINCO EUROS con NOVENTA Y SEIS CÉNTIMOS	3,735.96
279	801.0708N1	ud	ELECTROVÁLVULA PARA CONTROL DE ENTRADA DE AGUAS DESAJUSTADAS DESDE DEPARTAMENTO DE AJUSTE DE PH HACIA DEPARTAMENTO DE AGUAS DESAJUSTADAS	TRESCIENTOS NOVENTA Y TRES EUROS con NOVENTA Y SIETE CÉNTIMOS	393.97
280	801.0801N1	ud	BOMBEO CABECERA FORMADO POR DOS BOMBAS SUMERGIBLES PARA BOMBEO DEL AGUA RESIDUAL HACIA LA FASE DE DECANTACIÓN, CON RODETE DE TIPO VORTEX RETRASADO EN HIERRO FUNDIDO, CON UN PASO LIBRE ESFÉRICO DE 50 MM, DE 2,2 KW DE POTENCIA UNITARIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	SIETE MIL CUATROCIENTOS OCHENTA Y OCHO EUROS con OCHENTA Y DOS CÉNTIMOS	7,488.82
281	801.0802N1	ud	DEPÓSITO DE PREPARACIÓN DE FLOCULANTE FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, EQUIPADO CON UN AGITADOR PARA LA PERFECTA DILUCIÓN DEL FLOCULANTE, ACCIONADO MEDIANTE UN MOTOR REDUCTOR ACCIONADO POR UN TEMPORIZADOR.	MIL NOVECIENTOS TREINTA Y OCHO EUROS con SESENTA Y TRES CÉNTIMOS	1,938.63
282	801.0803N1	ud	EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE DESDE DEPÓSITO DE PREPARACIÓN, COMPUESTO POR DOS BOMBAS DOSIFICADORAS DE TIPO PISTÓN, CON REGULACIÓN MANUAL (0-100%) Y MOTOR TRIFÁSICO DE 0,37 KW	TRES MIL NOVECIENTOS VEINTIOCHO EUROS	3,928.00

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
283	801.0804N1	ud	DECANTADOR CILÍNDRICO, FABRICADO EN ACERO AL CARBONO, DE 3,50 METROS DE DIÁMETRO Y 6,00 METROS DE ALTURA, PROVISTO DE CAMPANA INTERIOR DE TRANQUILIZACIÓN DE FANGOS, CONO DE DEYECCIÓN, ALIVIADERO PARA SALIDA DEL VERTIDO. TAMBIÉN SE INCLUYE UNA ESTRUCTURA METÁLICA DE SOPORTE, ESCALERA DE GATO Y BARANDILLA DE SEGURIDAD.	VEINTIDÓS MIL SETECIENTOS TREINTA EUROS con OCHENTA Y NUEVE CÉNTIMOS	22,730.89
284	801.0805N1	ud	DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE SECCIÓN CIRCULAR, DE 3,0 M DE DIÁMETRO Y 4,50 METROS DE ALTURA, CON ESTRUCTURA METÁLICA DE SOPORTE, PROVISTO DE UN SISTEMA DE MEZCLA COMPUESTO POR UNA DRAINEX 200. EL DEPÓSITO UENTA CON UNA PARRILLA DE DIFUSORES INSTALADA EN SU FONDO PARA LA INYECCIÓN DE CO2. TAMBIÉN INCLUYE UN PH-METRO DIGITAL QUE CONTROLA LA APERTURA DE UNA ELECTROVÁLVULA QUE REGULA LA ENTRADA DE CO2 A LOS DIFUSORES. LA INSTALACIÓN QUEDA PREPARADA PARA QUE LA INYECCIÓN DE CO2 PUEDA SER CONECTADA DIRECTAMENTE.	VEINTE MIL QUINIENTOS SETENTA Y SIETE EUROS con CUARENTA Y CUATRO CÉNTIMOS	20,577.44
285	801.0806N1	ud	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.	DOCE MIL CUATROCIENTOS VEINTIDÓS EUROS con CATORCE CÉNTIMOS	12,422.14
286	801.0807N1	ud	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS	VEINTE MIL SEISCIENTOS NOVENTA Y NUEVE EUROS con SESENTA Y OCHO CÉNTIMOS	20,699.68

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
287	801.0808N1	ud	ACONDICIONADOR DE FANGOS, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE 1,00 M DE DIÁMETRO Y 1,50 METROS DE ALTURA, PROVISTO DE UN SISTEMA DE MEDIDORES DE NIVEL PARA LA AUTOMATIZACIÓN DEL BOMBEO DE ALIMENTACIÓN AL FILTRO PRENSA.	MIL TRESCIENTOS CINCUENTA Y CUATRO EUROS con TREINTA Y DOS CÉNTIMOS	1,354.32
288	801.0809N1	ud	BOMBA DE DOBLE MEMBRANA ACCIONADA POR AIRE PARA ALIMENTAR DE FANGOS AL FILTRO PRENSA, DE 2” CON EL CUERPO EN FUNDICIÓN Y MEMBRANAS EN NEOPRENO.	TRES MIL VEINTICINCO EUROS con NOVENTA Y CUATRO CÉNTIMOS	3,025.94
289	801.0810N1	ud	SISTEMA DE DESHIDRATACIÓN DE FANGOS, CONSISTENTE EN UN FILTRO PRENSA DE DESCARGA DE TORTA AUTOMÁTICA, DE BAJA PRESIÓN, DE 35 PLACAS Y TELAS FILTRANTES DE 800 X 800 MM., CON UNA CAPACIDAD DE 507 LITROS. INCLUYENDO ESTRUCTURA METÁLICA DE SOPORTE.	CINCUENTA Y NUEVE MIL SEISCIENTOS CINCUENTA Y NUEVE EUROS con SESENTA Y CUATRO CÉNTIMOS	59,659.64
290	801.0811N1	ud	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.	SEIS MIL NOVECIENTOS SESENTA Y NUEVE EUROS con CINCUENTA CÉNTIMOS	6,969.50
291	801.0812N1	ud	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS.	NUEVE MIL NOVECIENTOS VEINTE EUROS con CINCUENTA Y OCHO CÉNTIMOS	9,920.58

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
292	801.0901N1	ud	EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FORMADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASONDAS.	CUATRO MIL TRESCIENTOS OCHENTA Y SIETE EUROS con SESENTA Y NUEVE CÉNTIMOS	4,387.69
293	801.0902N1	ud	CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO	TRES MIL OCHOCIENTOS TREINTA Y CUATRO EUROS con TREINTA Y SEIS CÉNTIMOS	3,834.36
294	801.0903N1	ud	REGISTRADOR DE DATOS, DE 4 CANALES.	DOS MIL VEINTITRÉS EUROS con DIECIOCHO CÉNTIMOS	2,023.18
295	802.0010	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).	CINCUENTA Y TRES EUROS con CINCUENTA Y NUEVE CÉNTIMOS	53.59
296	802.0020	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).	TREINTA EUROS con SESENTA Y SIETE CÉNTIMOS	30.67

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
297	802.0030	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).	CINCUENTA Y CINCO EUROS con NOVENTA Y NUEVE CÉNTIMOS	55.99
298	802.0040	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).	TREINTA Y UN EUROS con OCHENTA Y OCHO CÉNTIMOS	31.88
299	802.0050	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).	CINCUENTA Y OCHO EUROS con TREINTA Y OCHO CÉNTIMOS	58.38

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
300	802.0060	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).	TREINTA Y TRES EUROS con TREINTA Y CINCO CÉNTIMOS	33.35
301	802.0150	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).	CINCUENTA Y TRES EUROS con CUARENTA Y SEIS CÉNTIMOS	53.46
302	802.0160	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).	VEINTIOCHO EUROS con SETENTA Y SEIS CÉNTIMOS	28.76
303	802.0180	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	OCHENTA Y CINCO EUROS con CUARENTA Y TRES CÉNTIMOS	85.43

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
304	802.0190	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	CUARENTA Y CINCO EUROS con SESENTA Y NUEVE CÉNTIMOS	45.69
305	802.0200	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD BUENA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).	SESENTA Y CUATRO EUROS con CUARENTA CÉNTIMOS	64.40
306	802.0210	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD MALA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).	SETENTA Y TRES EUROS con SESENTA CÉNTIMOS	73.60
307	803.0090	m	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	VEINTITRÉS EUROS con CINCUENTA Y UN CÉNTIMOS	23.51

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
308	803.0100	m	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	VEINTISÉIS EUROS con CUATRO CÉNTIMOS	26.04
309	803.0140	m	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	TREINTA Y NUEVE EUROS con QUINCE CÉNTIMOS	39.15
310	803.0150	m	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	VEINTICUATRO EUROS con TREINTA Y DOS CÉNTIMOS	24.32
311	803.0210	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 6 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	TREINTA Y SEIS EUROS con CINCUENTA Y CINCO CÉNTIMOS	36.55
312	803.0220	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	TREINTA Y SEIS EUROS con OCHENTA Y SIETE CÉNTIMOS	36.87
313	803.0230	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	CUARENTA Y NUEVE EUROS con NOVENTA Y CINCO CÉNTIMOS	49.95

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
314	803.0303N1	m²	MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	TRECE EUROS con OCHENTA Y NUEVE CÉNTIMOS	13.89
315	803.0320	m	CERCHA DE TIPO TH-21 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	CIENTO CINCO EUROS con OCHENTA Y TRES CÉNTIMOS	105.83
316	803.0330	m	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	CIENTO TREINTA Y SIETE EUROS con VEINTISIETE CÉNTIMOS	137.27
317	803.0350	m	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	CIENTO OCHENTA Y SIETE EUROS con VEINTIÚN CÉNTIMOS	187.21
318	803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	DOSCIENTOS SESENTA Y NUEVE EUROS con DOS CÉNTIMOS	269.02
319	803.0441N1	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.	DOSCIENTOS NUEVE EUROS con CINCO CÉNTIMOS	209.05

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
320	803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.	DOSCIENTOS SESENTA Y SEIS EUROS con OCHENTA Y NUEVE CÉNTIMOS	266.89
321	803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.	NOVENTA Y CUATRO EUROS con OCHENTA Y SEIS CÉNTIMOS	94.86
322	803.0510	m	DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.	VEINTICINCO EUROS con CINCUENTA CÉNTIMOS	25.50
323	803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.	NOVENTA Y TRES EUROS con TREINTA Y DOS CÉNTIMOS	93.32
324	803.0613N1	m	MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.	DOSCIENTOS SETENTA Y NUEVE EUROS con DIECISÉIS CÉNTIMOS	279.16
325	803.0620	m²	CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.	OCHENTA Y UN EUROS con SESENTA CÉNTIMOS	81.60

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
326	803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	UN EUROS con CATORCE CÉNTIMOS	1.14
327	804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	CIENTO SIETE EUROS con NOVENTA Y OCHO CÉNTIMOS	107.98
328	804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	CIENTO TRECE EUROS con TRECE CÉNTIMOS	113.13
329	804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.	CIENTO OCHO EUROS con OCHENTA Y TRES CÉNTIMOS	108.83
330	804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	VEINTINUEVE EUROS con ONCE CÉNTIMOS	29.11
331	804.0151N1	m²	ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	VEINTICINCO EUROS con CINCUENTA Y DOS CÉNTIMOS	25.52
332	804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.	DIECISÉIS EUROS con NOVENTA Y CINCO CÉNTIMOS	16.95
333	804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.		7.94

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SIETE EUROS con NOVENTA Y CUATRO CÉNTIMOS	
334	804.0200	m³	INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.		86.41
				OCHENTA Y SEIS EUROS con CUARENTA Y UN CÉNTIMOS	
335	805.0010	m²	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.		20.24
				VEINTE EUROS con VEINTICUATRO CÉNTIMOS	
336	805.0010N1	m²	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.		16.96
				DIECISÉIS EUROS con NOVENTA Y SEIS CÉNTIMOS	
337	805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.		12.30
				DOCE EUROS con TREINTA CÉNTIMOS	
338	805.0020	ud	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).		1.24
				UN EUROS con VEINTICUATRO CÉNTIMOS	
339	805.0031N1	m	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.		25.40
				VEINTICINCO EUROS con CUARENTA CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
340	805.0061N1	m	TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURADO DE PVC DE 110 MM DE DIÁMETRO, EN TÚNEL I/ MATERIAL DE ASIENTO CON MORTERO DE 10 CM DE ESPESOR Y RESTO DE MATERIALES PARA SU TOTAL TERMINACIÓN Y PUESTA EN OBRA.		13.93
				TRECE EUROS con NOVENTA Y TRES CÉNTIMOS	
341	805.0131N1	m²	RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO.		10.28
				DIEZ EUROS con VEINTIOCHO CÉNTIMOS	
342	805.0132N1	ud	SUMINISTRO Y MONTAJE DE CODO DE 90º DE FUNDICIÓN DÚCTIL DE 200 MM DE DIÁMETRO PARA UNA PRESIÓN PN16.		137.51
				CIENTO TREINTA Y SIETE EUROS con CINCUENTA Y UN CÉNTIMOS	
343	805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.		56.65
				CINCUENTA Y SEIS EUROS con SESENTA Y CINCO CÉNTIMOS	
344	807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.		693.23
				SEISCIENTOS NOVENTA Y TRES EUROS con VEINTITRÉS CÉNTIMOS	
345	807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.		1.36
				UN EUROS con TREINTA Y SEIS CÉNTIMOS	
346	807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.		21.54
				VEINTIÚN EUROS con CINCUENTA Y CUATRO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
347	807.0051N1	ud	CAJA DE TERMINALES		38.17
				TREINTA Y OCHO EUROS con DIECISIETE CÉNTIMOS	
348	807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE		262.68
				DOSCIENTOS SESENTA Y DOS EUROS con SESENTA Y OCHO CÉNTIMOS	
349	807.0054N1	ud	EXTENSÓMETRO DE TRES VARILLAS.		2,236.84
				DOS MIL DOSCIENTOS TREINTA Y SEIS EUROS con OCHENTA Y CUATRO CÉNTIMOS	
350	807.0056N1	m	CABLE APANTALLADO PARA AUSCULTACIÓN.		2.23
				DOS EUROS con VEINTITRÉS CÉNTIMOS	
351	807.0057N1	ud	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS.		14.36
				CATORCE EUROS con TREINTA Y SEIS CÉNTIMOS	
352	807.0058N1	ud	REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.		2,195.38
				DOS MIL CIENTO NOVENTA Y CINCO EUROS con TREINTA Y OCHO CÉNTIMOS	
353	807.0059N1	ud	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.		282.94
				DOSCIENTOS OCHENTA Y DOS EUROS con NOVENTA Y CUATRO CÉNTIMOS	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
354	807.0060N1	mes	AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.		25,458.44
				VEINTICINCO MIL CUATROCIENTOS CINCUENTA Y OCHO EUROS con CUARENTA Y CUATRO CÉNTIMOS	
355	915.0010	m	CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS		19.97
				DIECINUEVE EUROS con NOVENTA Y SIETE CÉNTIMOS	
356	915.0010N1	m	CERRAMIENTO DE ADIF PARA L.A.V. DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3.5 M, ARRIOSTRAMIENTO CADA 35 M Y MALLA DE ACERO GALVANIZADO, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS		38.63
				TREINTA Y OCHO EUROS con SESENTA Y TRES CÉNTIMOS	
357	915.0012N1	m	CERRAMIENTO DE 2,0 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3 M, ARRIOSTRAMIENTO CADA 30 M Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS.		19.92
				DIECINUEVE EUROS con NOVENTA Y DOS CÉNTIMOS	
358	915.0020	ud	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.		247.27
				DOSCIENTOS CUARENTA Y SIETE EUROS con VEINTISIETE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
359	915.0021N1	ud	PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 X 2,00 M), TOTALMENTE COLOCADA.	QUINIENTOS SESENTA Y OCHO EUROS con VEINTIDÓS CÉNTIMOS	568.22
360	920.0022N1	ud	BASE PARA COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS	DOSCIENTOS SESENTA Y CUATRO EUROS con OCHO CÉNTIMOS	264.08
361	930.0001N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	CIENTO DIECISÉIS EUROS con CINCUENTA Y NUEVE CÉNTIMOS	116.59
362	930.0002N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 200 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	CIENTO CUARENTA Y UN EUROS con VEINTITRÉS CÉNTIMOS	141.23
363	930.0003N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 250 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	CIENTO CINCUENTA Y SIETE EUROS con CUARENTA Y TRES CÉNTIMOS	157.43
364	930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	CIENTO SETENTA Y CINCO EUROS con SETENTA Y TRES CÉNTIMOS	175.73
365	930.0004N2	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 400 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	DOSCIENTOS CUARENTA Y UN EUROS con CUARENTA Y NUEVE CÉNTIMOS	241.49

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
366	930.0005N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	DOSCIENTOS NOVENTA Y NUEVE EUROS con SEIS CÉNTIMOS	299.06
367	931.0001N1	ud	ARQUETA TIPO A-I	CUATROCIENTOS TREINTA Y TRES EUROS con NOVENTA CÉNTIMOS	433.90
368	931.0002N1	ud	ARQUETA TIPO A-II	CUATROCIENTOS OCHENTA Y CUATRO EUROS con CUARENTA Y TRES CÉNTIMOS	484.43
369	931.0003N1	ud	ARQUETA TIPO A-III	SEISCIENTOS VEINTIÚN EUROS con TREINTA Y CINCO CÉNTIMOS	621.35
370	931.0004N1	ud	ARQUETA TIPO A-IV	SEISCIENTOS OCHENTA Y UN EUROS con CUARENTA Y UN CÉNTIMOS	681.41
371	932.0001N1	m	TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	VEINTICINCO EUROS con TREINTA CÉNTIMOS	25.30
372	932.0002N1	m	TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	TREINTA EUROS con OCHENTA Y DOS CÉNTIMOS	30.82
373	932.0002N2	m	TUBERÍA DE POLIETILENO Ø DE 110 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO		32.66

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TREINTA Y DOS EUROS con SESENTA Y SEIS CÉNTIMOS	
374	932.0006N1	m	TUBERÍA DE PVC DE Ø 400 MM		242.64
				DOSCIENTOS CUARENTA Y DOS EUROS con SESENTA Y CUATRO CÉNTIMOS	
375	950.0010	t	CLASIFICACIÓN Y RECOGIDA SELECTIVA DE RESIDUOS, EXCEPTO TIERRAS Y PIEDRAS DE EXCAVACIÓN, MEDIANTE MEDIOS MANUALES Y MECÁNICOS DE LOS RESIDUOS Y SU DEPÓSITO EN LA ZONA PRINCIPAL DE ALMACENAMIENTO DE RESIDUOS DE LA OBRA.		6.51
				SEIS EUROS con CINCUENTA Y UN CÉNTIMOS	
376	950.0020	t	CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSO - RNP- DE CARÁCTER NO PÉTREO (CARTÓN-PAPEL, MADERA, VIDRIO, PLÁSTICOS Y METALES INCLUIDOS ENVASES Y EMBALAJES DE ESTOS MATERIALES ASÍ COMO BIODEGRADABLES DEL DESBROCE) A PLANTA DE VALORIZACIÓN AUTORIZADA POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA, INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.		10.96
				DIEZ EUROS con NOVENTA Y SEIS CÉNTIMOS	
377	950.0030	t	CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSOS -RNP- DE CARÁCTER PÉTREO (EXCEPTO TIERRAS Y PIEDRAS) CONSTITUIDOS POR HORMIGÓN, LADRILLOS, TEJAS Y MATERIALES CERÁMICOS (O MEZCLA DE ÉSTOS), YESO Y/O MEZCLAS BITUMINOSAS A PLANTA DE VALORIZACIÓN POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES BASCULANTES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.		7.78
				SIETE EUROS con SETENTA Y OCHO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
378	950.0080N1	t	CANON DE ENTRADA A PLANTA DE GESTIÓN DE RESIDUOS DE TIERRAS. NO SE INCLUYE EL TRANSPORTE.		3.25
				TRES EUROS con VEINTICINCO CÉNTIMOS	
379	955.0001N1	m	DESMONTAJE, POR MEDIOS MANUALES, DE LAS REJILLAS DE CANALETAS PERIMETRALES DE DESAGÜE DEL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN DE LAS MISMAS; I/ REPOSICIÓN DE LAS REJAS O ELEMENTOS DE FIJACIÓN Y ANCLAJE EN MAL ESTADO O DETERIORADAS, LIMPIEZA DE LAS REJAS REUTILIZABLES CON AGUA A PRESIÓN, COLOCACIÓN DE LAS REJILLAS EN LAS CANALETAS PARA FIJACIÓN DEL NUEVO CÉSPED, LIMPIEZA DE LA CANALETA Y SISTEMA DE DRENAJE MEDIANTE AGUA A PRESIÓN COMPROBANDO SU CONEXIÓN CON EL COLECTOR DE SANEAMIENTO Y SU FUNCIONAMIENTO. MEDIDA LA LONGITUD REALMENTE EJECUTADA.		3.30
				TRES EUROS con TREINTA CÉNTIMOS	
380	955.0002N1	ud	DESMONTAJE Y RETIRADA, POR MEDIOS MANUALES, DEL EQUIPAMIENTO DEPORTIVO (PORTERÍAS, BARADILLAS, BANQUILLOS, CAÑONES DE RIEGO, ETC...) EXISTENTE EN EL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN Y COLOCACIÓN, I/ REPOSICIÓN DE ELEMENTOS AUXILIARES Y DE FIJACIÓN O ANCLAJE DEL EQUIPAMIENTO EN MAL ESTADO O DETERIORADAS, COLOCACIÓN DEL EQIIPAMIENTO DEPORTIVO TRAS LA INSTALACIÓN DEL NUEVO CÉSPED, MEDIOS AUXILIARES Y AYUDAS DE ALBAÑILERÍA.		237.25
				DOSCIENTOS TREINTA Y SIETE EUROS con VEINTICINCO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
381	955.0003N1	m²	LEVANTADO Y RETIRADA DE PAVIMENTO DE CÉSPED ARTIFICIAL REALIZADO POR MEDIOS MECÁNICOS, MEDIANTE MAQUINARIA ESPECIALIZADA QUE PERMITA LA SEPARACIÓN MECÁNICA "IN SITU" DE TODOS SUS COMPONENTES (MOQUETA + ÁRIDO + SBR NEGRO) PARA POSTERIOR CLASIFICACIÓN, I/ EL ALMACENAMIENTO DEL MATERIAL DE RELLENO (ÁRIDO Y SBR NEGRO) EN SACAS IMPERMEABLES INDEPENDIENTES PARA SU REUTILIZACIÓN O TRANSPORTE A VERTEDERO CONTROLADO (SEGÚN DETERMINACIÓN DEL DIRECTOR DE OBRA, ALMACENAMIENTO DE LOS ROLLOS DE CÉSPED ARTIFICIAL O TRANSPORTE A LUGAR DETERMINADO POR EL DIRECTOR DE OBRA), LIMPIEZA DE BARREDORA MECÁNICA DE LA CAPA DE SOPORTE (BASE ASFÁLTICA) Y EL TRANSPORTE A VERTEDERO DE ESCOMBROS Y MATERIAL RESIDUAL. MEDIDA LA SUPERFICIE EJECUTADA.	UN EUROS con SETENTA Y CUATRO CÉNTIMOS	1.74
382	955.0004N1	m²	SUMINISTRO E INSTALACIÓN DE CÉSPED ARTIFICIAL TIPO FIELDTURF OPTIMUM 60 MM O SIMILAR. HILO MONOFILAMENTO CÓNCAVO MULTINERVADO EN SU TOTALIDAD (MÍNIMO 15 NEVIOS ASIMÉTRICOS) DE 12000 DTEX Y 240 MICRAS, DE ALTA RESISTENCIA Y 7559 PUNTADAS (+/- 10%). FIBRA CON TRATAMIENTO ANTI UVA RESISTENTE AL CALOR Y AL HIELO LASTRADA CON ARENA DE SÍLICE REDONDEADA, LIMPIA Y SECA DE GRANULOMETRÍA 0.3/0.8 EN UNA PROPORCIÓN DE 18 KG/M² (+/- 10 %) Y CAUCHO SBR NEGRO DE GRANULOMETRÍA 0.5-2.5 MM EN UN APROPORCIÓN DE 16 KG/M² (+/- 10%). HILO DE POLIETILENO TEJIDO SOBRE UN BACKING ESPECIALMENTE REFORZADO 100% POLIPROPILENO. PESO DE FIBRA: 1164 G/M² (+/- 10%) Y PESO TOTAL APROXIMADO DE 2324 G/M² (+/- 10%). SERVIDO EN ROLLOS DE 4 M DE ANCHO. MARCAJE DE LÍNEAS DE JUEGO DE FÚTBOL 11 EN EL MISMO MATERIAL EN COLOR BLANCO DE 10 CM DE ANCHO CUMPLIENDO LA REGLAMENTACIÓN DE LA R.F.E.F., CON LAS JUNTAS ENCOLADAS CON COLA DE POLIURETANO. PRODUCTO TESTADO EN LABORATORIO CONFORME CUMPLE LOS CRITERIOS FIFA 2*, SIN BASE ELÁSTICA. SE UTILIZARÁ MÁQUINA AUTOPROPULSADA, TIPO SMG-SANMATIC O SIMILAR, DE DOSIFICACIÓN AUTOMÁTICA Y CEPILLOS CONTRAORARIOS QUE PERMITAN EL DEPÓSITO EXACTO DE UNA DETERMINADA CANTIDAD DE RELLENO POR M², CON UN ESPESOR TOTAL DE 45 Y 50 MM. EN EL MARCAJE SE INCLUYEN LAS LÍNEAS DEL CAMPO Y LÍNEAS DE BANQUILLOS.	TREINTA Y OCHO EUROS con VEINTIÚN CÉNTIMOS	38.21

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
383	955.0005N1	t	CARGA Y TRANSPORTE A VERTEDERO AUTORIZADO DEL CÉSPED VIEJO QUE NO SE TENGA QUE REUTILIZAR.	CUARENTA Y DOS EUROS con QUINCE CÉNTIMOS	42.15
384	955.0006N1	u	SUMINISTRO E INSTALCIÓN DE CAÑÓN DE RIEGO SECTORIAL DE RETORNO LENTO, MOD. SR3003 DE RAIN-BIRD O SIMILAR, CON JUEGO DE 6 TOBERAS DE PLÁSTICO GNS-3003T (14, 16, 18, 20, 22, 24 MM), I/ RETIRADA DE CAÑONES VIEJOS, MATERIAL DIVERSO NECESARIO PARA LA INSTALACIÓN DE LOS CAÑONES NUEVOS, MANO DE OBRA Y MAQUINARIA NECESARIA. LOS CAÑONES VIEJOS SE ALMACENARÁN EN LA INSTALACIÓN DEPORTIVA.	MIL SEISCIENTOS SIETE EUROS con SETENTA Y OCHO CÉNTIMOS	1,607.78
385	955.0007N1	u	SUMINISTRO Y COLOCACIÓN DE DEPÓSITO DE HORMIGÓN ARMADO PREFABRICADO DE 20 M³ CON UNAS DIMENSIONES DE 4,90 X 2,45 X 2,1 M (LARGO, ANCHO, ALTO), CON UN ESPESOR DE PARED DE 110 M, I/ TAPA DE HORMIGÓN ARMADO EN LA PARTE SUPERIOR CON REGISTRO PARA ACCESO. TOTALMENTE INSTALADO.	SIETE MIL DOSCIENTOS OCHENTA EUROS con CUARENTA Y SEIS CÉNTIMOS	7,280.46
386	955.0008N1	PA.IA	PARTIDA ALZADA DE ABONO INTEGRO DE DESMONTAJE DE EQUIPOS DE RIEGO, TRASLADO A LUGAR DE ACOPIO DURANTE LA EJECUCIÓN DE LAS OBRAS Y MONTAJE EN UBICACIÓN DEFINITIVA.	DIEZ MIL EUROS	10,000.00
387	955.0010N1	m	LEVANTADO DE CERRAMIENTO FORMADO POR MALLA ELECTROSOLDADA CON BASTIDOR DE PERFIL HUECO DE ACERO DE 200 CM DE ALTURA Y FIJADA MEDIANTE RECIBIDO EN OBRA DE FÁBRICA, CON MEDIOS MANUALES Y EQUIPO DE OXICORTE, Y CARGA MANUAL DEL MATERIAL DESMONTADO SOBRE CAMIÓN O CONTENEDOR.	SEIS EUROS con CINCUENTA Y CUATRO CÉNTIMOS	6.54

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
388	955.0011N1	ud	DESMONTAJE DE TORRE DE ILUMINACIÓN, DE ENTRE 10 Y 12 M DE ALTURA, CON RECUPERACIÓN DEL MATERIAL PARA SU POSTERIOR UBICACIÓN EN OTRO EMPLAZAMIENTO, SIENDO EL ORDEN DE EJECUCIÓN DEL PROCESO INVERSO AL DE SU INSTALACIÓN, Y CARGA MANUAL SOBRE CAMIÓN O CONTENEDOR. EL PRECIO INCLUYE EL DESMONTAJE DE LOS ACCESORIOS Y DE LOS ELEMENTOS DE FIJACIÓN, INCLUIDA LA DEMOLICIÓN DE LA CIMENTACIÓN.	TRESCIENTOS CINCUENTA EUROS con SESENTA Y TRES CÉNTIMOS	350.63
389	980.0100N1	ud	ARQUETA DE 60 X 60 DE DIMENSIONES INTERIORES CON TAPA CON MARCO METÁLICO Y ANAGRAMA DE LA DGT.	CIENTO TREINTA Y CUATRO EUROS con VEINTIÚN CÉNTIMOS	134.21
390	980.0110N1	ud	ARQUETA DE EMPALME DE 80 X 80 DE DIMENSIONES INTERIORES.	CIENTO CUARENTA Y CUATRO EUROS con SESENTA Y SEIS CÉNTIMOS	144.66
391	980.0120N3	m	CANALIZACIÓN PARA SISTEMAS ITS BAJO CALZADA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, EMBEBIDOS EN HORMIGÓN EN MASA HM-20.	CUARENTA Y SEIS EUROS con DIECIOCHO CÉNTIMOS	46.18
392	980.0125N3	m	CANALIZACIÓN PARA SISTEMAS ITS BAJO BERMA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, RECUBIERTOS DE ARENA.	CUARENTA EUROS con SIETE CÉNTIMOS	40.07

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
393	997.0001N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 KW, UN CAUDAL DE 12.900 M³/H, 200 PA Y RESTO DE CARACTERÍSTICAS SEGÚN PLANOS. INCLUYENDO PABELLÓN DE ASPIRACIÓN CON TELA METÁLICA PROTECTORA, SOPORTES DE FIJACIÓN, JUNTAS ELÁSTICAS EN ASPIRACIÓN E IMPULSIÓN, TORNILLERÍA Y ACCESORIOS DE FIJACIÓN. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL SETECIENTOS CUARENTA Y OCHO EUROS con CUARENTA Y NUEVE CÉNTIMOS	1,748.49
394	997.0001N2	Ud	SUMINISTRO, MONTEJE E INSTALACIÓN DE SONDA DE SOBREPRESIÓN, PARA CONTROLAR LA PRESIÓN EN SISTEMAS DE VENTILACIÓN EN PRESIÓN CONSTANTE. PERMITEN LA LECTURA DE LA DIFERENCIA DE PRESIONES ENTRE DOS PUNTOS Y LA TRANSFORMAN EN UNA SEÑAL ELÉCTRICA APTA PARA LOS DIFERENTES EQUIPOS DE CONTROL. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRESCIENTOS SETENTA Y UN EUROS con NOVENTA Y DOS CÉNTIMOS	371.92
395	997.0001N3	Ud	SUMINISTRO, MONTEJE E INSTALACIÓN DE REGULADOR DE TENSIÓN AUTOMÁTICO. CONTROLADO POR MICROPROCESADOR QUE PERMITE VARIAR LA VELOCIDAD DE GIRO DE LOS VENTILADORES QUE SOPORTAN EN FUNCIÓN DE LAS SEÑALES ENVIADAS POR LA SONDA DE SOBREPRESIÓN. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATROCIENTOS SETENTA Y UN EUROS con ONCE CÉNTIMOS	471.11

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
396	997.0002N1	ud	INSTALACIÓN DE TELECÁMARA COLOR TECNOLOGÍA IP FORMATO 1/3" CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO, ALTA RESOLUCIÓN DE 4 MEGPIXEL, 480 LÍNEAS COLOR (520 B/N) DE RESOLUCIÓN HORIZONTAL, 5 MBPS, OBJETIVO C Y CS, AUTOIRIS, CONTROL REMOTO, CON ALIMENTACIÓN ELÉCTRICA 220 VCA. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL DOSCIENTOS CINCO EUROS con CINCUENTA CÉNTIMOS	1,205.50
397	997.0002N2	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE CÁMARA DE COLOR IP FULL HD, CON ANÁLISIS DE DETECCIÓN AUTOMÁTICA DE INCIDENTES INTEGRADO, CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO. RESOLUCIÓN 1920X1080, 30 FPS Y CON FORMATO DE CODIFICACIÓN H 264, DE LA MARCA DE BOSCH O EQUIVALENTE, MODELO AVIOTEC IP STARLIGHT 8000. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NUEVE MIL DOSCIENTOS OCHENTA Y SIETE EUROS con TREINTA CÉNTIMOS	9,287.30
398	997.0003N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y TRES EUROS con CINCUENTA Y UN CÉNTIMOS	43.51
399	997.0003N2	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 1500 X 1500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	OCHENTA Y SEIS EUROS con CINCUENTA Y OCHO CÉNTIMOS	86.58

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
400	997.0004N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 300 X 210 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	ONCE EUROS con TREINTA Y SIETE CÉNTIMOS	11.37
401	997.0005N1	ud	HIDRANTE DE COLUMNA SECA, ANTICHOQUE ANTIHIELO DE 6", CON 3 BOCAS, 1X4" (100) / 2X2 1/2" (70), CON RACORES SEGÚN NORMA UNE, TAPONES ANTIRROBO Y PROFUNDIDAD 485 MM, EN TOMA RECTA A LA RED. MEDIDA LA UNIDAD INSTALADA. CUMPLE CON LA NORMATIVA VIGENTE UNE, SEGÚN SE EXIGE EN EL REGLAMENTO DE INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS.	MIL DOSCIENTOS OCHENTA Y CINCO EUROS con TREINTA Y DOS CÉNTIMOS	1,285.32
402	997.0006N1	ud	HIDRANTE ENTERRADO DE 4” DN100, CON 2 BOCAS DE 70 MM, CON RACORES Y TAPONES, EN ALUMINIO ESTAMPADO CON ARQUETA COMPLETA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	OCHOCIENTOS SESENTA Y CUATRO EUROS con TREINTA Y OCHO CÉNTIMOS	864.38
403	997.0007N1	ud	EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.	SETENTA Y UN EUROS con TREINTA Y TRES CÉNTIMOS	71.33

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
404	997.0008N1	ud	EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.	OCHENTA Y OCHO EUROS con QUINCE CÉNTIMOS	88.15
405	997.0009N1	ud	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 93 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE Y EXTINTORES DE POLVO QUÍMICO, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	QUINIENTOS TREINTA Y SIETE EUROS con CUARENTA Y SEIS CÉNTIMOS	537.46
406	997.0010N1	ud	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 193 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE, 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	QUINIENTOS SESENTA Y SIETE EUROS con CUARENTA Y CUATRO CÉNTIMOS	567.44
407	997.0011N1	ud	ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.	MIL SEISCIENTOS CUARENTA Y CINCO EUROS con CUARENTA Y SEIS CÉNTIMOS	1,645.46
408	997.0012N1	ud	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 135 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL DOSCIENTOS SESENTA Y CUATRO EUROS con NOVENTA Y CINCO CÉNTIMOS	1,264.95

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
409	997.0013N1	ud	ARMARIO DE CONTADORES DE DIMENSIONES ADECUADAS VACÍO, PREPARADO PARA ALOJAR EN SU INTERIOR UN EQUIPO DE MEDIDA MULTIFUNCIÓN CLASE 1, REGLETA DE COMPROBACIÓN DE 10 ELEMENTOS, CABLEADO Y TODOS LOS ACCESORIOS NECESARIOS, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SEISCIENTOS CINCUENTA Y CUATRO EUROS con CUATRO CÉNTIMOS	654.04
410	997.0014N1	ud	SISTEMA DE CONTROL PARA EL CABLE SENSOR, COMPUESTO POR UNIDAD MAESTRA DE CONTROL Y 2 UNIDADES ESCALVAS, VÍA INTERFACE RS-485 CON DISPLAY ALFANUMÉRICO LCD DE 2 X 40 CARACTERES Y TECLADO, CONTACTOS DE COMMUTACIÓN PARA ALARMA COMÚN Y FALLO, FUENTE DE ALIMENTACIÓN 230 VAC / 50 HZ, UPS 72 H (SAI 72 H), SUBRACK DE 19", ASÍ COMO EL RESTO DE ELEMENTOS DE CONTROL NECESARIOS PARA LA COMPLETA INSTALACIÓN DEL SISTEMA DE DETECCIÓN DE INCENDIOS, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SGÚN PPTP.	DIECINUEVE MIL NOVECIENTOS TREINTA Y SIETE EUROS con CUATRO CÉNTIMOS	19,937.04
411	997.0015N1	ud	REALIZACIÓN DE EMPALME DE SEGREGACIÓN DE FIBRA ÓPTICA, I/ MATERIAL NECESARIO PARA SU REALIZACIÓN.	DOS MIL NOVECIENTOS TREINTA Y CINCO EUROS con DIECISÉIS CÉNTIMOS	2,935.16
412	997.0016N1	ud	DRENAJE RED DE PCI, CON TUBERÍA DE ACERO DIN 2440 DE 1 1/4" DE DIÁMETRO Y VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO, SEGÚN PPTP.	CINCUENTA Y SIETE EUROS con CINCUENTA Y SEIS CÉNTIMOS	57.56

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
413	997.0017N1	ud	INSTALACIÓN DE CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS ADECUADO HASTA PARA 4 CONECTORES SC/PC, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SEISCIENTOS UN EUROS con DOS CÉNTIMOS	601.02
414	997.0018N1	m	INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	ONCE EUROS con SETENTA CÉNTIMOS	11.70
415	997.0019N1	ud	VENTOSA PARA RED DE COLUMNA SECA, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS SETENTA Y TRES EUROS con TREINTA Y OCHO CÉNTIMOS	273.38
416	997.0020N1	ud	TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA, TOTALMENTE TERMINADO.	NOVENTA Y UN EUROS con NOVENTA Y CUATRO CÉNTIMOS	91.94

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
417	997.0021N1	m	TUBERÍA ACERO ESTIRADO SIN SOLDADURA, CLASE NEGRA, DIN-2440 DE 1 1/2" (DN-32), SIN CALORIFUGAR, COLOCADO EN INSTALACIÓN DE AGUA, INCLUSO P.P. DE UNIONES, SOPORTACIÓN, ACCESORIOS, PLATAFORMAS MÓVILES, MANO DE OBRA, PRUEBA HIDRÁULICA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	VEINTICUATRO EUROS con DIEZ CÉNTIMOS	24.10
418	997.0022N1	m³	GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 M3/H A 80 MCA, COMPUESTO POR UNA ELECTROBOMBA PRINCIPAL, UNA ELECTROBOMBA DE EMERGENCIA (55 KW), ELECTROBOMBA JOCKEY DE 4 KW, COLECTOR DE ASPIRACIÓN CON VÁLVULAS DE SECCIONAMIENTO, COLECTOR DE IMPULSIÓN CON VÁLVULAS DE CORTE Y RETENCIÓN, VÁLVULA PRINCIPAL DE RETENCIÓN Y COLECTOR DE PRUEBAS EN IMPULSIÓN, MANÓMETRO Y VÁLVULA DE SEGURIDAD, ACUMULADOR HIDRONEUMÁTICO DE 25 L. BANCADA METÁLICA Y CUADRO ELÉCTRICO DE MANIOBRAS SEGÚN NORMAS UNE (23-500-90), I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CATORCE MIL CUATROCIENTOS CUARENTA Y TRES EUROS con VEINTE CÉNTIMOS	14,443.20
419	997.0023N1	ud	VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4" (DN-100), CON SUS JUNTAS, TORNILLOS, TUERCAS Y RACORES EN ACERO INOXIDABLE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS VEINTIOCHO EUROS con CUARENTA Y SEIS CÉNTIMOS	228.46
420	997.0024N1	ud	NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS) O SIMILAR, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	DOS MIL SETECIENTOS OCHENTA Y CINCO EUROS con SETENTA Y DOS CÉNTIMOS	2,785.72

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
421	997.0025N1	ud	ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 MM. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL CUATROCIENTOS VEINTE EUROS con OCHENTA Y DOS CÉNTIMOS	1,420.82
422	997.0026N1	m	CABLE DE 4 X 2 X 0,9 MM EAPSP PARA LA CONEXIÓN DE LOS SENSORES DE NIVEL DEL DEPÓSITO DE ABASTECIMIENTO HASTA LA ERU.	TRES EUROS con CINCO CÉNTIMOS	3.05
423	997.0027N1	ud	SUMINISTRO E INSTALACIÓN DE CONVERSOR DE MEDIO ETHERNET (10BASE-T) O FAST ETHERNET (100BASE-TX) SOBRE FIBRA ÓPTICA MONOMODO (SM), FORMATO CAJA DE SOBREMESA O SOBRE CARRIL DIN, 3U DE ALTURA Y ALIMENTACIÓN ENTRE +9 Y 36 VCC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN. TOTALMENTE PROBADO Y FUNCIONANDO.	NOVECIENTOS NOVENTA Y CINCO EUROS con SETENTA Y NUEVE CÉNTIMOS	995.79
424	997.0028N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 150 MM (6"), PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	QUINIENTOS OCHENTA Y SIETE EUROS con DIECINUEVE CÉNTIMOS	587.19
425	997.0029N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	TRES MIL QUINIENTOS OCHENTA Y CUATRO EUROS con SETENTA Y CUATRO CÉNTIMOS	3,584.74

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
426	997.0030N1	ud	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.	TREINTA Y DOS EUROS con SETENTA Y CUATRO CÉNTIMOS	32.74
427	997.0031N1	ud	VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTITRÉS EUROS con CUARENTA Y OCHO CÉNTIMOS	23.48
428	997.0032N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 80 MM, PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SETECIENTOS OCHENTA Y TRES EUROS con NOVENTA Y DOS CÉNTIMOS	783.92
429	997.0033N1	ud	INSTALACIÓN DE COLUMNA DE 6 M PARA FOTÓMETRO DE BOCA NORTE, VELETA Y CORTAVIENTOS DE BOCA NORTE.	MIL CIENTO VEINTE EUROS con CINCUENTA CÉNTIMOS	1,120.50
430	997.0034N1	m	CABLE SENSOR CON CUBIERTA IGNÍFUGA Y SIN HALÓGENOS CON 8 M DE DISTANCIA ENTRE SENSOR, RANGO DE MEDIDA DE TEMPERATURAS: - 40ºC + 85ºC, RESOLUCIÓN DE 0,1ºC, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTICUATRO EUROS con TRES CÉNTIMOS	24.03
431	997.0035N1	ud	TAPA DE FUNDICIÓN DE 1 X 1 M.		309.68

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TRESCIENTOS NUEVE EUROS con SESENTA Y OCHO CÉNTIMOS	
432	997.0036N1	ud	SUMINISTRO E INSTALACIÓN DE VÁLVULA DE MARIPOSA PARA EMBRIDAR, DE DIÁMETRO 6" DE DIÁMETRO, PN=16 BAR, FORMADA POR CUERPO, DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS ES ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		274.95
				DOSCIENTOS SETENTA Y CUATRO EUROS con NOVENTA Y CINCO CÉNTIMOS	
433	997.0036N2	ud	VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 MM, CUERPO Y DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS EN ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		385.32
				TRESCIENTOS OCHENTA Y CINCO EUROS con TREINTA Y DOS CÉNTIMOS	
434	997.0037N1	ud	VÁLVULA REDUCTORA DE PRESIÓN DE LATÓN DE DIÁMETRO 1 1/4", INCLUSO ROSCADO A TUBO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP. .		325.03
				TRESCIENTOS VEINTICINCO EUROS con TRES CÉNTIMOS	
435	997.0038N1	ud	PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		44.12
				CUARENTA Y CUATRO EUROS con DOCE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
436	997.0039N1	m	LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T. CON CONDUCTOR AISLADO AL-RHZ1 18/30 KV DE 150 MM2 ENTUBADO, TOTALMENTE TERMINADO, INCLUYENDO EXCAVACIÓN Y TAPADO DE ZANJA, TUBO DE PVC DE 160 MM DE DIÁMETRO, BAJANTE POR EL APOYO Y CEGADO DEL TUBO CON ESPUMA DE POLIURETANO Y TERMINALES DE CONEXIÓN, INCLUYENDO PARTE PROPORCIONAL DE SECCIONADORES Y TODA LA INSTALACIÓN A REALIZAR EN EL APOYO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		107.27
				CIENTO SIETE EUROS con VEINTISIETE CÉNTIMOS	
437	997.0040N1	ud	CENTRAL ALGORÍTMICA DE DETECCIÓN DE INCENDIOS CON CAPACIDAD PARA CONTROLAR HASTA 250 EQUIPOS, FABRICADOS SEGÚN NORMATIVAS EN 54-2 Y EN-54-4:1998, CON DISPLAY GRÁFICO, MEMORIA DE EVENTOS NO VOLÁTIL, CON CAPACIDAD PARA MÁS DE 1000 REGISTROS, GESTIÓN TOTAL DE LISTADOS DE EVENTOS, RELOJ EN TIEMPO REAL, SALIDA INCORPORADAS DE EVACUACIÓN, ALARMA, PREALARMA Y AVERÍA, MODO DIA/NOCHE CONFIGURABLE AUTOMÁTICAMENTE MEDIANTE CALENDARIO PROGRAMABLE, MODOS DE TEST Y PRUEBAS INCORPORADOS PARA CADA ZONA, CAPACIDAD MULTILENGUAJE, CONTROL DE ACCESO RESTRINGIDO MEDIANTE LLAVE O CLAVE PROGRAMABLE, PUERTO DE IMPRESORA SERIE INCORPORADO, PUERTOS RS-232 Y RS-485 INDEPENDIENTES, PROVISTA DE FUENTE DE ALIMENTACIÓN DE 4 A Y DOS BATERÍAS DE 12 V / 7 AH Y UNIDAD DE CONTROL DE BUCLES ANALÓGICOS ENCHUFABLES EN LAS CENTRALES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		17,239.99
				DIECISIETE MIL DOSCIENTOS TREINTA Y NUEVE EUROS con NOVENTA Y NUEVE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
438	997.0041N1	ud	CELDA DE INTERRUPTOR PASANTE (SECCIONAMIENTO), MODELO CGM36-CMIP Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, Y EMBARRADO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATRO MIL QUINIENTOS CUARENTA Y DOS EUROS con SESENTA Y SEIS CÉNTIMOS	4,542.66
439	997.0042N1	ud	CELDA DE MEDIDA, MODELO CGM36-CMM Ó SIMILAR, CONTENIENDO 3 TRAFOS DE T. RELACIÓN X/ 3 / 110/ 3 V, 50 VA, CLASE 0.5, 36 KV Y 3 TRAFOS I. RELACIÓN X / 5 A, 15 VA, CLASE 0.5, 36 KV, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	OCHO MIL TRESCIENTOS SESENTA Y SEIS EUROS con OCHO CÉNTIMOS	8,366.08
440	997.0043N1	ud	CELDA DE PROTECCIÓN GENERAL, CON INTERRUPTOR AUTOMÁTICO MOTORIZADO, MODELO CGM36-CMP-V O SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR AUTOMÁTICO III, VN = 36 KV, IN = 400 A, ICC = 16 KA, MANDO MOTOR, CON BOBINAS DE CIERRE Y DISPARO ASOCIADA AL RELÉ DE PROTECCIÓN Y CONTACTOS AUXILIARES. SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, RELÉ DE PROTECCIÓN, TRANSFORMADORES DE INTENSIDAD TOROIDALES PARA PROTECCIÓN, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECISÉIS MIL DOSCIENTOS DIECIOCHO EUROS con NOVENTA CÉNTIMOS	16,218.90

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
441	997.0044N1	ud	CELDA DE LÍNEA, MODELO CGM36-CML Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, SECCIONADOR DE PUESTA A TIERRA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATRO MIL VEINTIÚN EUROS con CUATRO CÉNTIMOS	4,021.04
442	997.0045N1	ud	CELDA DE PROTECCIÓN DE TRANSFORMADOR DE POTENCIA, MODELO CGM36-CMP-F+RELE Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR ROTATIVO III, VN = 36 KV, IN = 400 A, MANDO MANUAL, PORTAFUSIBLES Y CARTUCHOS FUSIBLES DE 36 KV, RELÉ TRIFÁSICO DE PROTECCIÓN DE TRANSFORMADOR, SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.	CINCO MIL NOVECIENTOS CUARENTA Y SEIS EUROS con UN CÉNTIMOS	5,946.01
443	997.0046N1	ud	INTERCONEXIÓN DE CELDA DE MEDIA TENSIÓN CON TRANSFORMADOR DE POTENCIA, FORMADA POR CABLE DE AL DE AISLAMIENTO SECO DE 1 X 95 MM2, UN JUEGO DE 3 BORNAS ELASTIMOLD, REF: K-158 LR Y 3 CONOS DIFUSORES ELASTIMOLD, REF: MSC, PARA SER INSTALADOS EN LOS EXTREMOS DEL CABLE ANTERIOR Y TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SETECIENTOS DIECISÉIS EUROS con SESENTA Y UN CÉNTIMOS	716.61

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
444	997.0047N1	ud	BORNAS DE CONEXIÓN DE MDEIA TENSIÓN APANTALLADAS, TIPO ELASTIMOLD O SIMILAR, PARA SU INSTALACIÓN EN LA ENTRADA DE LAS CELDAS DE LÍNEA, CON TODOS LOS ACCESORIOS NECESARIOS, I/ INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CIENTO CINCUENTA Y SIETE EUROS con VEINTICUATRO CÉNTIMOS	157.24
445	997.0048N1	ud	EQUIPO DE SEGURIDAD QUE COMPRENDE: - COMPROBADOR ÓPTICO Y ACÚSTICO DE AUSENCIA DE TENSIÓN AUTOVERIFICABLE DE 600 V C.C. - VERIFICADOR DE AUSENCIA DE TENSIÓN LUMINOSO CON COMPROBADOR PIEZOELÉCTRICO INCORPORADO Y PÉRTIGA TELESCÓPICA - BANQUETA AISLANTE PARA SERVICIO INTERIOR HASTA 36 KV - EQUIPO DE PUESTA A TIERRA - ESCALERA PARA TRABAJOS ELÉCTRICOS DE FIBRA - GUANTES AISLANTES PARA TRABAJOS ELÉCTRICOS EN 36 KV, CON COFRET METÁLICO CONSERVACIÓN Y FIJACIÓN MURAL - REANIMADOR PARA RESPIRACIÓN ARTIFICIAL CON CAJA DE PLÁSTICO HERMÉTICA - MANTA IGNÍFUGA PARA EXTINCIÓN DE INCENDIOS - PLACAS DE SEÑALIZACIÓN PARA RESPIRACIÓN ARTIFICIAL E INSTRUCCIONES DE AUXILIO EN CASO DE ACCIDENTE ELÉCTRICO - PLACAS DE SEÑALIZACIÓN DE RIESGO ELÉCTRICO.	SEISCIENTOS NOVENTA Y SIETE EUROS con OCHENTA Y CUATRO CÉNTIMOS	697.84
446	997.0049N1	ud	TRANSFORMADOR DE POTENCIA DE 800 KVA, 25 / 0.42 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAPSULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CATORCE MIL SEISCIENTOS SESENTA Y CINCO EUROS con NOVENTA Y SIETE CÉNTIMOS	14,665.97

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
447	997.0050N1	ud	TRANSFORMADOR DE POTENCIA DE 1000 KVA, 25 / 0.40 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAPSULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTIÚN MIL CIENTO OCHENTA Y CUATRO EUROS con NOVENTA Y SIETE CÉNTIMOS	21,184.97
448	997.0051N1	ud	PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMADOR, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS NOVENTA Y TRES EUROS con TREINTA Y SIETE CÉNTIMOS	293.37
449	997.0052N1	ud	EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC), PARA INCLUIR TRANSFORMADOR DE 800 Ó 1000 KVA, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS NOVENTA Y TRES EUROS con TREINTA Y SIETE CÉNTIMOS	293.37
450	997.0053N1	ud	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL OCHOCIENTOS TREINTA Y SIETE EUROS con NOVENTA Y SIETE CÉNTIMOS	3,837.97

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
451	997.0054N1	ud	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA SAI-01, TRIFÁSICO DE 40 KVA, 400/230 V, CON AUTONOMÍA DE 60 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTE MIL SETECIENTOS OCHO EUROS con VEINTINUEVE CÉNTIMOS	20,708.29
452	997.0055N1	ud	DEPÓSITO DE COMBUSTIBLE DE 3000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	OCHO MIL NOVENTA Y CINCO EUROS con NOVENTA Y UN CÉNTIMOS	8,095.91
453	997.0056N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 102 KW / 127,5 KVA EN SERVICIO CONTINUO Y 112,5 KW / 141 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y NUEVE MIL SETECIENTOS TREINTA Y NUEVE EUROS con CINCUENTA Y CUATRO CÉNTIMOS	49,739.54
454	997.0057N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 408 KW / 510 KVA EN SERVICIO CONTINUO Y 449 KW / 562 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NOVENTA Y OCHO MIL CUATROCIENTOS CINCUENTA Y OCHO EUROS con TREINTA CÉNTIMOS	98,458.30

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
455	997.0058N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 530 KW / 662 KVA EN SERVICIO CONTINUO Y 582 KW / 728 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CIENTO ONCE MIL TRESCIENTOS DIECISIETE EUROS con VEINTISIETE CÉNTIMOS	111,317.27
456	997.0059N1	ud	CUADRO GENERAL DE BAJA TENSIÓN CGBT-1, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NOVENTA Y SIETE MIL CUATROCIENTOS SETENTA EUROS con OCHENTA Y SEIS CÉNTIMOS	97,470.86
457	997.0060N1	ud	CUADRO GENERAL DE BAJA TENSIÓN CGBT-2, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NOVENTA Y TRES MIL OCHOCIENTOS TREINTA Y CINCO EUROS con SEIS CÉNTIMOS	93,835.06

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
458	997.0061N1	ud	CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO SAI 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL SESENTA Y DOS EUROS con TREINTA Y UN CÉNTIMOS	1,062.31
459	997.0062N1	ud	CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO GRUPO 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL OCHOCIENTOS OCHENTA Y UN EUROS con CINCUENTA Y CINCO CÉNTIMOS	1,881.55

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
460	997.0063N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 45 KW, 400 V Y 50 HZ, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL DOSCIENTOS TREINTA Y SIETE EUROS con CINCUENTA CÉNTIMOS	2,237.50
461	997.0064N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 55 KW, 400 V Y 50 HZ, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL QUINIENTOS TREINTA Y DOS EUROS con SETENTA Y UN CÉNTIMOS	2,532.71
462	997.0065N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 KVAR (5+(6X30)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL SEISCIENTOS SETENTA Y SIETE EUROS con OCHENTA Y OCHO CÉNTIMOS	2,677.88
463	997.0066N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 KVAR (10+(4X50)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATRO MIL TRESCIENTOS OCHENTA Y UN EUROS con SETENTA Y DOS CÉNTIMOS	4,381.72

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
464	997.0067N1	ud	PROYECTOR LED 103 W DALI, INTEGRADO POR 48 LED DE ALTO FLUJO LUMINOSO Y UN SISTEMA DE LENTES FLEXIBLE, IP66; CUERPO DE ALUMINIO QUE INTEGRA EL BLOQUE DE AUXILIARES ELECTRÓNICOS Y EL BLOQUE ÓPTICO, ACCESIBLES IN SITU. CIERRE CON MARCO DE ALUMINIO Y PROTECTOR DE VIDRIO, INCLUIDO LÁMPARA, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.		621.40

SEISCIENTOS VEINTIÚN EUROS con CUARENTA CÉNTIMOS

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
465	997.0067N2	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 40LED (89W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 40LED DE ALTA EMISIÓN ALIMENTADOS A 700 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 89W Y FLUJO INICIAL DE 14.600LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.		774.03

SETECIENTOS SETENTA Y CUATRO EUROS con TRES CÉNTIMOS

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
466	997.0067N3	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 60LED (140W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 60LED DE ALTA EMISIÓN ALIMENTADOS A 750 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 140W Y FLUJO INICIAL DE 22.700LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	OCHOCIENTOS VEINTICINCO EUROS con NOVENTA Y SIETE CÉNTIMOS	825.97

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
467	997.0067N4	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 80LED (212W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 80LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 212W Y FLUJO INICIAL DE 33.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 786MM. PESO: 16 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	MIL CIENTO OCHENTA Y SIETE EUROS con SESENTA Y SIETE CÉNTIMOS	1,187.67

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
468	997.0067N5	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (396W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 800 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 396W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	MIL OCHOCIENTOS VEINTINUEVE EUROS con CINCUENTA Y OCHO CÉNTIMOS	1,829.58

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
469	997.0067N6	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (448W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 448W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	MIL NOVECIENTOS CINCUENTA EUROS con CUARENTA Y CINCO CÉNTIMOS	1,950.45

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
470	997.0067N7	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 240LED (624W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 240LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 624W Y FLUJO INICIAL DE 99.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1564MM. PESO: 32 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	DOS MIL QUINIENTOS SETENTA Y SEIS EUROS con TREINTA CÉNTIMOS	2,576.30

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
471	997.0068N1	ud	SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W CON EQUIPO DE EMERGENCIA, CON DIFUSOR TRANSPARENTE DE POLICARBONATO FABRICADO EN UNA SOLA PIEZA, CON PRISMAS INTERIORES DE ALTA EFICACIA LUMINOSA Y CIERRES INVISIBLES. CUERPO DE LA LUMINARIA EN POLICARBONATO Y DIFUSOR EN CHAPA DE ACERO, LACADO EN BLANCO, GRADO DE PROTECCIÓN IP-66/IK07, EQUIPO DE ENCENDIDO ELECTRÓNICO, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	CUATROCIENTOS NUEVE EUROS con DIECINUEVE CÉNTIMOS	409.19
472	997.0070N1	ud	SUMINISTRO DE LUMINARIA IP-66/IK08 LED 212 W PARA ALUMBRADO EXTERIOR, INCLUIDO LÁMPARA DE 80 LED, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, I/ ANCLAJE QUÍMICO PARA COLOCACIÓN DE LUMINARIA DE ALUMBRADO VIARIO EN ESTRUCTURAS O PUENTES. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS SETENTA Y SIETE EUROS con CUARENTA Y TRES CÉNTIMOS	277.43

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
473	997.0072N1	ud	SUMINISTRO DE CAJA TIPO TCT, CONTENIENDO EN SU INTERIOR 1 BASE 2P+T 16 A Y 1 BASE 3P+N+T 16 A Y UN MAGNETOTÉRMICO DE 16 A, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRESCIENTOS OCHENTA Y SEIS EUROS con CUARENTA Y UN CÉNTIMOS	386.41
474	997.0073N1	ud	DERECHOS DE ACOMETIDA A LA RED DE LA COMPAÑÍA ELÉCTRICA EN MEDIA TENSIÓN. (CUOTA DE ACCESO, DERECHOS DE ENGANCHE Y DERECHOS DE VERIFICACIÓN SEGÚN R.D.1955/2000, DE 1 DE DICIEMBRE, POR EL QUE SE REGULAN LAS ACTIVIDADES DE TRANSPORTE, DISTRIBUCIÓN, COMERCIALIZACIÓN, SUMINISTRO Y PROCEDIMIENTOS DE AUTORIZACIÓN DE INSTALACIONES DE ENERGÍA ELÉCTRICA). PRECIO FIJADO SEGÚN LA TARIFA VÁLIDA PARA EL AÑO 2006 SEGÚN R.D. 1556/2005, DE 28 DE DICIEMBRE.	CUARENTA MIL CINCUENTA Y NUEVE EUROS con NOVENTA Y UN CÉNTIMOS	40,059.91
475	997.0074N1	ud	SUMINISTRO E INSTALACIÓN DE FOTÓMETRO DE ENTRADA A TÚNEL PARA REGULACIÓN AUTOMÁTICA DE ILUMINACIÓN SEGÚN LAS RECOMENDACIONES DE LA CEI, CON LAS SIGUIENTES CARACTERÍSTICAS, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP: ELEMENTO DETECTOR: FOTODIODO DE SILICIO CON FILTRO V ANGULO DE MEDIDA. 20º PRECISIÓN: MEJOR QUE +/- 3% SEÑAL DE SALIDA: 4 - 20 MA MONTAJE: SOBRE SOPORTE AJUSTABLE	DOS MIL DOSCIENTOS CATORCE EUROS con OCHENTA Y OCHO CÉNTIMOS	2,214.88

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
476	997.0075N1	ud	COLUMNA METÁLICA DE 12 M DE ALTURA, DE DIÁMETROS DE 60 MM, TRONCOCÓNICA, CONSTRUIDA EN CHAPA DE ACERO DE 3 MM DE ESPESOR, CON PUERTA, PLETINA PARA CUADRO Y TORNILLO PARA TOMA DE TIERRA. EL CONJUNTO ESTARÁ GALVANIZADO EN CALIENTE POR INMERSIÓN CON UN ESPESOR MÍNIMO DEL RECUBRIMIENTO DE 450 G/M2 (UNE-37-501-71), CUMPLIENDO CON EL PLIEGO DE CONDICIONES E INCLUYENDO TRANSPORTE Y MONTAJE Y EXCLUYENDO LA CIMENTACIÓN.	MIL OCHENTA EUROS con NOVENTA Y DOS CÉNTIMOS	1,080.92
477	997.0076N1	ud	REGULADOR DALI DE ALUMBRADO BASADO EN MICROPROCESADOR, PUERTO RS-485, INCLUSO CABLEADO DE INTERCONEXIÓN, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL CIENTO NOVENTA Y TRES EUROS con NOVENTA Y CINCO CÉNTIMOS	2,193.95
478	997.0077N1	m	INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.	TRES EUROS con CINCUENTA Y CUATRO CÉNTIMOS	3.54

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
479	997.0078N1	ud	BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL, COLOR AZUL, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	TRESCIENTOS VEINTISIETE EUROS con CUARENTA Y SIETE CÉNTIMOS	327.47
480	997.0079N1	ud	CONSTRUCCIÓN DE PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS, DE 21 M DE LUZ, CON ESCALERA Y BARANDILLA, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.	TREINTA Y CINCO MIL DOSCIENTOS CUARENTA Y UN EUROS con CINCUENTA Y UN CÉNTIMOS	35,241.51
481	997.0080N1	ud	CONSTRUCCIÓN DE PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 M DE LUZ, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.	TREINTA Y DOS MIL OCHOCIENTOS OCHENTA Y NUEVE EUROS con CUARENTA Y NUEVE CÉNTIMOS	32,889.49

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
482	997.0081N1	m	CONDUCTOR DE COBRE DESNUDO DE 50 MM2 INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES EUROS con CUARENTA Y SEIS CÉNTIMOS	3.46
483	997.0082N1	ud	REGISTRO DE COMPROBACIÓN Y TAPA INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA EUROS con TRES CÉNTIMOS	40.03
484	997.0083N1	ud	PUENTE DE PRUEBA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	CINCUENTA EUROS con VEINTE CÉNTIMOS	50.20
485	997.0084N1	ud	SOLDADURA ALUMINOTÉRMICA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	CINCO EUROS con DOS CÉNTIMOS	5.02
486	997.0085N1	ud	EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 X 6 MM, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	CIENTO DIECISIETE EUROS con NOVENTA Y CUATRO CÉNTIMOS	117.94
487	997.0086N1	ud	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y SIETE EUROS con SEIS CÉNTIMOS	47.06

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
488	997.0087N1	ud	DOBLE ESTACIÓN REMOTA UNIVERSAL ERU REDUNDANTE, DOBLE ENLACE ETHERNET, A UBICAR EN LOCALES TÉCNICOS SOBRE RACK DE 19", INCLUSO TARJETAS DE COMUNICACIONES CON BUS DE CAMPO PARA CONTROL DISTRIBUIDO, CANALES SERIE Y RED ETHERNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECISÉIS MIL CUATROCIENTOS TREINTA Y NUEVE EUROS con DOCE CÉNTIMOS	16,439.12
489	997.0088N1	ud	PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 18", INCLUIDO SISTEMA OPERATIVO WINDOWS 2000 X-PRO O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL DOSCIENTOS NOVENTA Y SIETE EUROS con CUARENTA Y UN CÉNTIMOS	3,297.41
490	997.0089N1	ud	SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DEL TÚNEL COMPUESTO POR: - SOFTWARE DE BASE DE DATOS ORACLE O SIMILAR - SOFTWARE DE INTEGRACIÓN DE SISTEMAS (MIDDLEWARE) TIPO CORBA, J2E O SIMILAR - SOFTWARE GESTOR DE REDUNDANCIA DE SERVIDORES - SOFTWARE DE GESTIÓN DE LA RED DE COMUNICACIONES TOTALMENTE INSTALADOS INCLUYENDO CONFIGURACIÓN, PUESTA EN MARCHA, DOCUMENTACIÓN Y FORMACIÓN DE TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL	DIECINUEVE MIL SEISCIENTOS OCHENTA Y NUEVE EUROS con CINCUENTA CÉNTIMOS	19,689.50
491	997.0090N1	ud	IMPRESORA LÁSER B/N, INTERFACE PARALELO, RESOLUCIÓN 4200X1200 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	OCHOCIENTOS EUROS con SETENTA CÉNTIMOS	800.70

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
492	997.0091N1	ud	IMPRESORA INYECCIÓN DE TINTA COLOR, INTERFACE PARALELO, RESOLUCIÓN 600X600 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRESCIENTOS SETENTA Y SEIS EUROS con SETENTA CÉNTIMOS	376.70
493	997.0092N1	ud	MOBILIARIO DE OPERADORES, COMPUESTOS POR ZONA DE TRABAJO Y ENCIMERA SOBRE ELEVADA PARA MONITORES, EN TABLERO PRENSADO DE 30 MM DE ESPESOR REVESTIDO DE LAMINADO ALTA PRESIÓN ANTIRREFLEXIVO Y ANTIRRAYADO, ESTRUCTURA INTERIOR A BASE DE CHASIS MODULAR DE ALUMINIO EXTRUSIONADO, ALTURA REGULABLE MEDIANTE POSICIONES FIJAS, SOPORTE MONITORES METÁLICO CON REJILLAS DE VENTILACIÓN, PUERTAS TRASERAS DOBLES, KIT DE ELECTRIFICACIÓN CON CANALETAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTICUATRO MIL NOVECIENTOS TREINTA EUROS con CINCUENTA Y DOS CÉNTIMOS	24,930.52
494	997.0093N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SIETE EUROS con VEINTISÉIS CÉNTIMOS	7.26
495	997.0094N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 4X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOCE EUROS	12.00

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
496	997.0095N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 20X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTIÚN EUROS con SESENTA Y NUEVE CÉNTIMOS	21.69
497	997.0096N1	m	SUMINISTRO E INSTALACIÓN DE BANDEJA METÁLICA CON TAPA DE 200X60, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN Y TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	CIENTO CUARENTA Y TRES EUROS con SETENTA Y SIETE CÉNTIMOS	143.77
498	997.0097N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 16 ENTRADAS DIGITALES, 1 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	CUATRO MIL SEISCIENTOS EUROS con SETENTA Y DOS CÉNTIMOS	4,600.72
499	997.0098N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 3 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 2 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	CINCO MIL TRESCIENTOS EUROS con OCHENTA CÉNTIMOS	5,300.80

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
500	997.0099N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 4 TARJETAS DE 8 SALIDAS DIGITALES, 2 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SEIS MIL DOSCIENTOS SESENTA EUROS con SESENTA Y TRES CÉNTIMOS	6,260.63
501	997.0100N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 6 TARJETAS DE 16 ENTRADAS DIGITALES, 6 TARJETAS DE 16 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NUEVE MIL TRESCIENTOS SETENTA Y DOS EUROS con VEINTISIETE CÉNTIMOS	9,372.27
502	997.0101N1	ud	SERVIDOR DE PROCESO CPU INTEL PENTIUM 4 - 3 GHZ O SUPERIOR, RAM 1 GB, TARJETA GRÁFICA XVGA 16 MB - RAM, CONTROLADORA UW SCSI RAID, 3 DISCOS SCSI 100 GB, DISQUETERA 1.44/120 MB, 2 TARJETAS LAN 100/1000 MBPS, MONITOR TFT 15", TECLADO, 1 RATÓN, 1 PORT CENTRONICS + 2 PORTS RS-232, UNIDAD MAGNETO-ÓPTICA DE 1.3 GB INTERNA SCS, REGRABADORA CD-WRITER 9210I (32X8X4) SCSI, WINDOWS NT WORKSTATION 4.0 O SUPERIOR PREINSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTITRÉS MIL CIENTO OCHENTA Y TRES EUROS con OCHENTA CÉNTIMOS	23,183.80
503	997.0102N1	ud	LICENCIA DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO.	DIECISIETE MIL CUATROCIENTOS NOVENTA EUROS	17,490.00

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
504	997.0103N1	ud	PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO TANTO EN CAMPO COMO EN SALA DE CONTROL.	CUARENTA MIL DOSCIENTOS OCHENTA EUROS	40,280.00
505	997.0104N1	ud	PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO, INCLUYENDO TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL ASÍ COMO INTEGRACIÓN DE LOS DIFERENTES SUBSISTEMAS QUE COMPONEN LAS INSTALACIONES DE GESTIÓN DEL TÚNEL.	DOCE MIL CIENTO NOVENTA EUROS	12,190.00
506	997.0105N1	ud	INGENIERÍA DE INTEGRACIÓN DE ERUS Y PLCS DE CONTROL EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	VEINTE MIL SETECIENTOS TREINTA Y TRES EUROS con SESENTA CÉNTIMOS	20,733.60
507	997.0106N1	ud	INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	SEIS MIL DOSCIENTOS ONCE EUROS con SESENTA CÉNTIMOS	6,211.60
508	997.0107N1	ud	INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	CUATRO MIL NOVECIENTOS VEINTINUEVE EUROS	4,929.00
509	997.0108N1	ud	INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN Y PANELES ALFANUMÉRICOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	CINCO MIL CIENTO NOVENTA Y CUATRO EUROS	5,194.00
510	997.0109N1	ud	INTEGRACIÓN DE SISTEMA DE POSTES SOS, TOTALMENTE INSTALADO	CINCO MIL CIENTO CUARENTA Y UN EUROS	5,141.00

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
511	997.0110N1	ud	INTEGRACIÓN DE SISTEMA DE VÍDEO EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO, INCLUYENDO CONFIGURACIÓN.	CINCO MIL DOSCIENTOS CINCUENTA Y DOS EUROS con TREINTA CÉNTIMOS	5,252.30
512	997.0111N1	ud	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	CINCO MIL CIENTO CUARENTA Y OCHO EUROS con CUARENTA Y DOS CÉNTIMOS	5,148.42
513	997.0112N1	ud	INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	DOS MIL SETECIENTOS CUARENTA Y CUATRO EUROS con TREINTA Y CUATRO CÉNTIMOS	2,744.34
514	997.0113N1	ud	INTEGRACIÓN DE SISTEMA DAI EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	CUATRO MIL CIENTO VEINTITRÉS EUROS con CUARENTA CÉNTIMOS	4,123.40
515	997.0114N1	ud	INTEGRACIÓN DE ANALIZADORES DE REDES EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	DOS MIL OCHOCIENTOS CATORCE EUROS con TREINTA CÉNTIMOS	2,814.30
516	997.0115N1	ud	INTEGRACIÓN ETDS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	VEINTE MIL DOSCIENTOS CUARENTA Y SEIS EUROS	20,246.00
517	997.0116N1	ud	CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA, TOTALMENTE INSTALADO.	DIECISÉIS MIL DOSCIENTOS SEIS EUROS con TREINTA Y CUATRO CÉNTIMOS	16,206.34
518	997.0117N1	ud	INSTALACIÓN EN MÁSTIL DE ANTENA DE CAPTACIÓN FM. INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		394.26

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TRESCIENTOS NOVENTA Y CUATRO EUROS con VEINTISÉIS CÉNTIMOS	
519	997.01187N1	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE SISTEMA DE DETECCIÓN AUTOMÁTICA DE PIEZAS SOBRECALENTADAS DE VEHÍCULOS DE LA MARCA SICK O EQUIVALENTE. INCORPORA CÁMARA TERMOGRÁFICA (INCLUYE CARCASA Y CALEFACCIÓN INTERIOR) Y SENSOR 2D-LIDAR PARA DETECTAR VEHÍCULOS SOBRECALENTADOS, INSTALADO EN ARCO DE SEÑALIZACIÓN ANTES DE LA ENTRADA EN EL TÚNEL PARA PODER DETENER EL VEHÍCULO SOBRECALENTADO Y NO PERMITIRLE EL ACCESO HASTA SU REFRIGERACIÓN. EL SISTEMA MIDE LA TEMPERATURA Y LAS DIMENSIONES DE CADA VEHÍCULO, DETERMINA LA CLASE DE VEHÍCUOLO Y GENERA UNA IMAGEN 3D, PERMITE IDENTIFICAR LA PARTE SOBRECALENTADA DEL VEHÍCULO: RUEDAS, MOTOR, CARGA, ESCAPES, ETC. INCLUYE ACCESORIOS DE MONTAJE, CARCASAS, SUJECCIONES, CONEXIONES, CAJAS DE REGISTRO, CABLEADO, CANALIZACIÓN, ETC. TOTALMENTE INSTALADO SEGÚN NORMATIVA VIGENTE Y A JUICIO DE LA DF.		11,456.40
				ONCE MIL CUATROCIENTOS CINCUENTA Y SEIS EUROS con CUARENTA CÉNTIMOS	
520	997.0118N1	m	CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		8.91
				OCHO EUROS con NOVENTA Y UN CÉNTIMOS	
521	997.0119N1	ud	INSTALACIÓN DE AMPLIFICADOR SELECTIVO DE CANAL FM PARA 4 CANALES. CON INSERCIÓN DE MENSAJES PROCEDENTES DEL SISTEMA DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		14,411.48
				CATORCE MIL CUATROCIENTOS ONCE EUROS con CUARENTA Y OCHO CÉNTIMOS	
522	997.0120N1	ud	ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		1,768.56
				MIL SETECIENTOS SESENTA Y OCHO EUROS con CINCUENTA Y SEIS CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
523	997.0121N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA DE RADIOCOMUNICACIONES, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		16,176.02
				DIECISÉIS MIL CIENTO SETENTA Y SEIS EUROS con DOS CÉNTIMOS	
524	997.0122N1	m	CABLE COAXIAL RADIANTE 1 - 5/8", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		20.75
				VEINTE EUROS con SETENTA Y CINCO CÉNTIMOS	
525	997.0123N1	ud	GRAPA PARA FIJACIÓN DE CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		3.70
				TRES EUROS con SETENTA CÉNTIMOS	
526	997.0124N1	ud	CARGA FINAL PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		84.07
				OCHENTA Y CUATRO EUROS con SIETE CÉNTIMOS	
527	997.0125N1	ud	CONECTOR PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		137.70
				CIENTO TREINTA Y SIETE EUROS con SETENTA CÉNTIMOS	
528	997.0126N1	ud	INSTALACIÓN DE DUPLEXOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		343.59
				TRESCIENTOS CUARENTA Y TRES EUROS con CINCUENTA Y NUEVE CÉNTIMOS	
529	997.0127N1	ud	SPLITTER DE 2 VÍAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.		504.81
				QUINIENTOS CUATRO EUROS con OCHENTA Y UN	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CÉNTIMOS	
530	997.0128N1	ud	ESTACIÓN METEOROLÓGICA MARCA VAISALA MODELO ROSA/DM31 O SIMILAR PARA LA ADQUISICIÓN Y TRATAMIENTO DE DATOS, COMPUESTA POR: * CPU * INTERFACE PARA SENSORES DRI50 O SIMILAR * CHASIS DMF31 O SIMILAR * ARMARIO PARA FIJACIÓN A MÁSTIL Y ACCCESORIOS * SALIDA RS-232 * PROTOCOLO DGT * SENSORES DE TEMPERATURA Y HUMEDAD RELATIVA * CARCASA ANTIRRADIACIÓN PARA SENSOR DE TEMPERATURA Y HUMEDAD RELATIVA * SENSORES DE ESTADO DE SUPERFICIE DE CALZADA * CONJUNTOS DE MEDIDA DE VIENTO COMPUESTO POR: - SENSOR DE VELOCIDAD DE VIENTO - SENSOR DE DIRECCIÓN DE VIENTO - TRANSMISOR ANALÓGICO, INCLUSO CRUCETA * SENSORES DE VISIBILIDAD Y TIEMPO PRESENTE, RANGO DE MEDIDA DE 10/2.000 M. * SENSORES DE PRESIÓN ATMOSFÉRICA, RANGO DE MEDIDA DE 800/1060 HPA * SENSORES DE RADIACIÓN SOLAR INCLUYENDO INTERFACE PARA ROSA/DM31 O SIMILAR * BRAZOS SOPORTE CON ACCESORIOS TOTALMENTE MONTADA, INSTALADA Y PROBADA	TREINTA MIL SESENTA Y CUATRO EUROS con TREINTA CÉNTIMOS	30,064.30
531	997.0129N1	ud	SUMINISTRO E INSTALACIÓN DECOLUMNA METÁLICA PRECONEXIONADA DE 6 METROS PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	SEIS MIL SEISCIENTOS VEINTICUATRO EUROS con CINCUENTA Y CINCO CÉNTIMOS	6,624.55
532	997.0130N1	ud	SUMINISTRO E INSTALACIÓN DE ARMARIO CONEXIONADO PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	TRES MIL DOSCIENTOS OCHENTA Y CUATRO EUROS con SESENTA Y DOS CÉNTIMOS	3,284.62

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
533	997.0131N1	ud	SWITCH GIGABIT ETHERNET, LAYER 2/3 SWITCHING, 24 PUERTOS 10/100 BASET, 2 PUERTOS 1000 MBPS, 2 PUERTOS LH-LC MINI GBIC (GIGABIT INTERFACE CONVERTER), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NUEVE MIL SEISCIENTOS CUATRO EUROS con CUARENTA Y SEIS CÉNTIMOS	9,604.46
534	997.0132N1	ud	SUMINISTRO PANEL DE PARCHEO DE 24 PUERTOS RJ-45, CLASE 6, CON ETIQUETAS FRONTALES Y TRASERAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS OCHENTA EUROS con CINCUENTA Y NUEVE CÉNTIMOS	280.59
535	997.0133N1	ud	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y SIETE EUROS con OCHENTA Y SEIS CÉNTIMOS	47.86
536	997.0134N1	ud	PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO 2P+TT, INTERRUPTOR BIPOLAR 16 A 250 V CON PILOTO, PARA MONTAJE EN RACK 19", 2 U ALTURA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CINCUENTA Y OCHO EUROS con SESENTA Y CINCO CÉNTIMOS	58.65
537	997.0135N1	m	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECISIETE EUROS con CINCUENTA CÉNTIMOS	17.50

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
538	997.0136N1	m	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MULTITUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECINUEVE EUROS con CUARENTA Y SEIS CÉNTIMOS	19.46
539	997.0137N1	ud	PIG-TAIL FIBRA ÓPTICA MONOMODO, FUNDA PROTECCIÓN 3 MM, 2 M LONGITUD, CON CONECTOR ST, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTITRÉS EUROS con NOVENTA CÉNTIMOS	23.90
540	997.0138N1	ud	SUMINISTRO E INSTALACIÓN DE BANDEJA DE EMPALME PARA FIBRA ÓPTICA, EXTRAÍBLE, FORMATO RACK 19", 1 U DE ALTURA, INCLUYENDO PANEL DE PARCHEO ADECUADO A 16 CONECTORES SC/PC, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CIENTO TREINTA Y DOS EUROS con CINCUENTA Y CINCO CÉNTIMOS	132.55
541	997.0139N1	ud	REALIZACIÓN DE EMPALME RECTO DE 16 FIBRAS ÓPTICAS, FINAL DE BOBINA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	CINCO MIL DOSCIENTOS SIETE EUROS con VEINTIOCHO CÉNTIMOS	5,207.28
542	997.0140N1	ud	ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL CIENTO TREINTA Y UN EUROS con SETENTA CÉNTIMOS	3,131.70

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
543	997.0141N1	ud	PANEL CIEGO DE 2RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTITRÉS EUROS con OCHENTA Y SEIS CÉNTIMOS	23.86
544	997.0142N1	ud	PANEL CIEGO DE 4RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y CUATRO EUROS con TREINTA Y OCHO CÉNTIMOS	44.38
545	997.0143N1	ud	PANEL CIEGO CON REJILLA DE 1RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTIÚN EUROS con NOVENTA Y TRES CÉNTIMOS	21.93
546	997.0144N1	ud	SUMINISTRO DE LICENCIA DEL SISTEMA DAI CON 1 ENTRADA DE VIDEO, TOTALMENTE FUNCIONANDO.	CINCO MIL SETENTA Y TRES EUROS con CINCO CÉNTIMOS	5,073.05
547	997.0145N1	ud	ANALIZADOR DEL SISTEMA DAI TIPO RACK INDUSTRIAL	VEINTIÚN MIL NOVECIENTOS VEINTIDÓS EUROS con SIETE CÉNTIMOS	21,922.07
548	997.0146N1	ud	PUESTA EN MARCHA DEL SISTEMA DAI, Y FORMACIÓN DE OPERADORES.	SIETE MIL DOSCIENTOS OCHO EUROS con VEINTITRÉS CÉNTIMOS	7,208.23

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
549	997.0147N1	ud	ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.	SETENTA Y CUATRO EUROS con DIEZ CÉNTIMOS	74.10
550	997.0148N1	m²	RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.	DOCE EUROS con TREINTA Y CINCO CÉNTIMOS	12.35
551	997.0149N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	TREINTA EUROS con DIECISÉIS CÉNTIMOS	30.16

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
552	997.0150N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	VEINTICINCO EUROS con SETENTA Y SEIS CÉNTIMOS	25.76
553	997.0151N1	m	ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.	TREINTA Y SEIS EUROS con CINCUENTA Y DOS CÉNTIMOS	36.52
554	997.0152N1	m²	REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.	VEINTIÚN EUROS con CINCUENTA Y DOS CÉNTIMOS	21.52

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
555	997.0153N1	ud	ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.	CINCUENTA Y TRES EUROS con OCHENTA Y UN CÉNTIMOS	53.81
556	997.0154N1	ud	CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.	VEINTISÉIS EUROS con OCHENTA Y DOS CÉNTIMOS	26.82
557	997.0155N1	m	BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.	DIEZ EUROS con OCHENTA Y SIETE CÉNTIMOS	10.87
558	997.0156N1	m²	CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.	TREINTA EUROS con DIECISÉIS CÉNTIMOS	30.16

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
559	997.0157N1	m²	ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.	ONCE EUROS con NOVENTA Y OCHO CÉNTIMOS	11.98
560	997.0158N1	m²	PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.	DIEZ EUROS con CINCUENTA Y DOS CÉNTIMOS	10.52
561	997.0159N1	m	LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.	VEINTICINCO EUROS con CUARENTA Y TRES CÉNTIMOS	25.43
562	997.0160N1	m²	CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).	CIENTO NUEVE EUROS con OCHO CÉNTIMOS	109.08

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
563	997.0161N1	m²	PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).	CIENTO VEINTIOCHO EUROS con UN CÉNTIMOS	128.01
564	997.0162N1	m²	PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.	OCHO EUROS con SETENTA Y OCHO CÉNTIMOS	8.78
565	997.0163N1	ud	LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	CIENTO CINCUENTA Y OCHO EUROS con NUEVE CÉNTIMOS	158.09
566	997.0164N1	ud	LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	CIENTO CINCUENTA EUROS con CUARENTA Y DOS CÉNTIMOS	150.42

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
567	997.0165N1	ud	INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONEXIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	CIENTO OCHENTA Y SIETE EUROS con DOCE CÉNTIMOS	187.12
568	997.0166N1	m	CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	UN EUROS con VEINTISÉIS CÉNTIMOS	1.26
569	997.0167N1	m	CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	CERO EUROS con NOVENTA Y SEIS CÉNTIMOS	0.96
570	997.0168N1	ud	SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	NOVENTA Y CINCO EUROS con SESENTA Y CUATRO CÉNTIMOS	95.64

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
571	997.0169N1	ud	SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	TREINTA Y TRES EUROS con SETENTA Y OCHO CÉNTIMOS	33.78
572	997.0170N1	m	CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	ONCE EUROS con VEINTE CÉNTIMOS	11.20
573	997.0171N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	DOS EUROS con OCHENTA Y OCHO CÉNTIMOS	2.88
574	997.0172N1	PA.IA	PA DE ABONO INTEGRO DE REDACCIÓN DEL MANUAL DE EXPLOTACIÓN DEL TÚNEL CON EL ALCANCE DESCRITO EN PPTP	OCHENTA Y UN MIL EUROS	81,000.00
575	997.0173N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO 450 KVA, 400 V, 50 HZ, 1.500 R.P.M., CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO PARA 8 HORAS DE FUNCIONAMIENTO CONTINUO A PLENA CARGA, INCLUIDO TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.	CUARENTA Y SEIS MIL OCHENTA Y OCHO EUROS con NOVENTA Y OCHO CÉNTIMOS	46,088.98
576	997.0174N1	ud	INSTALACIÓN DE ALUMBRADO DE EMERGENCIA CON LUMINARIAS FLUORESCENTES DOBLES DE 36 W CADA 20 M, CON UNO DE LOS TUBOS FLUORESCENTES CON AUTONOMÍA DE 1 HORA		79.63

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SETENTA Y NUEVE EUROS con SESENTA Y TRES CÉNTIMOS	
577	997.0175N1	ud	SUMINISTRO Y MONTAJE DE GENÓFONO CON PINZA DE CONEXIÓN MÓVIL. TOTALMENTE INSTALADO.	CUATRO MIL CIENTO SETENTA Y TRES EUROS con TREINTA Y OCHO CÉNTIMOS	4,173.38
578	997.0176N1	ud	SUMINISTRO Y MONTAJE DE UNA RED DE BIE'S DURANTE LA CONSTRUCCIÓN DE TÚNEL, DOTADO DE DEPÓSITO DE ACERO DE 40 M3 DE AGUA, GRUPO DE PROTECCIÓN CONTRA INCENDIOS Y BOCAS DE INCENDIOS EQUIPADAS, INCLUSO LAS TUBERÍAS Y ELEMENTOS DE ANCLAJE. TOTALMENTE INSTALADO	CINCUENTA Y SIETE MIL QUINIENTOS OCHENTA Y NUEVE EUROS con NOVENTA Y OCHO CÉNTIMOS	57,589.98
579	997.0177N1	ud	SUMINISTRO Y MONTAJE DE SISTEMA DE AIRE COMPRIMIDO COMPUESTO POR COMPRESORES EXENTOS DE ACEITE, CON UNA PRESIÓN DE TRABAJO DE 6 BARG Y UN CAUDAL DE 25.9 M3/MIN, 1 DEPÓSITO DE 6000 LITROS Y TUBERÍA DE ACERO GALVANIZADO DN-80. TOTALMENTE INSTALADO Y PUESTO EN SERVICIO	CIENTO OCHENTA Y DOS MIL QUINIENTOS SESENTA Y TRES EUROS con NOVENTA Y OCHO CÉNTIMOS	182,563.98
580	997.0178N1	ud	SUMINISTRO DE TRAJE IGNÍFUGO PARA EQUIPO DE SEGUNDA INTERVENCIÓN, INCLUSO CASCO, BOTAS Y GUANTES APTOS Y HOMOLOGADOS PARA UN EQUIPO DE SEGUNDA INTERVENCIÓN SEGÚN NORMA 531.	CUARENTA Y CINCO EUROS con SESENTA Y TRES CÉNTIMOS	45.63
581	997.0179N1	ud	SUMINISTRO DE EQUIPO DE RESPIRACIÓN AUTÓNOMA, INCLUYENDO MÁSCARA, REGULADOR, TUBOS, MANÓMETROS, BOTELLA DE 6 LITROS A 300 BAR Y ANCLAJES.	MIL DOSCIENTOS VEINTICINCO EUROS con SESENTA Y NUEVE CÉNTIMOS	1,225.69

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
582	997.0180N1	ud	ARMARIO PARA PUESTO DE INCENDIOS FABRICADO CON PERFILES HUECOS DE ACERO Y CHAPA DE ACERO GALVANIZADA DE 1 MM.DE ESPESOR, MEDIDAS EXTERIORES DE 1200 MM.DE LONGITUD, 400 MMDE ANCHO Y 1600 MM.DE ALTURA, CON DOS PUERTAS FRONTALES DE REJILLA METÁLICA DOTADAS DE CIERRE INDEPENDIENTE DE FACIL APERTURA (SIN LLAVE), SEGÚN DETALLE EN PLANOS, ANCLADO AL SUELO CON TACOS Y TORNILLOS METÁLICOS, INCLUSO MANOS DE PINTURA, ESMALTE ANTICORROSIVO HAMMERITE, TERMINADO E INSTALADO.	CUATROCIENTOS NOVENTA Y NUEVE EUROS con SETENTA Y TRES CÉNTIMOS	499.73
583	997.0181N1	ud	CONVERTIDOR RS-232 A RS-485, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y CINCO EUROS con SESENTA Y TRES CÉNTIMOS	45.63
584	997.0182N1	ud	SUMINISTRO E INSTALACIÓN DE CONVERTIDOR DE RS-422 A IP, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	MIL CIENTO VEINTICINCO EUROS con NOVENTA Y SEIS CÉNTIMOS	1,125.96
585	997.0184N1	ud	BARRERA AUTOMÁTICA DE BRAZO DE ALUMINIO DE 8 M. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SETECIENTOS SETENTA Y UN EUROS con VEINTE CÉNTIMOS	771.20

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
586	997.0185N1	ud	ESPIRA ELECTROMAGNÉTICA SOTERRADA EN EL PAVIMENTO DE MEDIDA ESTANDAR 2X2 M, COMPUESTA POR REGATA, CABLE ESPECIAL DE 2,5 MM, RESINA SINTÉTICA DE RECUBRIMIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SESENTA Y NUEVE EUROS con SETENTA Y UN CÉNTIMOS	69.71
587	997.0186N1	ud	ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD PARA 8 DETECTORES DOBLES. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL QUINIENTOS SETENTA EUROS con NOVENTA Y OCHO CÉNTIMOS	1,570.98
588	997.0187N1	ud	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES ST, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.	SESENTA Y OCHO EUROS con TREINTA Y OCHO CÉNTIMOS	68.38
589	997.0188N1	ud	DE SEÑAL DE EXCESO DE GÁLIBO DE 2.500 X 1925 MM TOTALMENTE INSTALADA. SEGÚN PPTP	OCHOCIENTOS TREINTA Y CUATRO EUROS con OCHENTA CÉNTIMOS	834.80
590	997.0189N1	ud	BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO, COMPUESTA POR PÓRTICO DE ACERO GALVANIZADO, PANELES DE BALIZAMIENTO REFLECTANTE TB-5 PINTADAS EN FRANJAS ROJAS Y BLANCAS, COLGADAS DEL PÓRTICO MEDIANTE CADENAS DE SUJECIÓN, INCLUYE CIMENTACIÓN, CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOCE MIL SEISCIENTOS SETENTA Y DOS EUROS con OCHENTA Y TRES CÉNTIMOS	12,672.83

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
591	997.0190N1	ud	DETECTOR A MICROPROCESADOR DE VEHÍCULOS PARA LAZO ELECTROMAGNÉTICO, DE 2 CANALES, AUTOADAPTABLE Y AUTOAJUSTABLE. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRESCIENTOS OCHENTA Y SIETE EUROS con SETENTA Y UN CÉNTIMOS	387.71
592	997.0192N1	ud	SUMINISTRO E INSTALACIÓN DE CONVERSOR DE RS-485 A IP, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE PROBADO Y FUNCIONANDO.	MIL DOSCIENTOS SEIS EUROS con OCHENTA Y TRES CÉNTIMOS	1,206.83
593	997.0193N1	ud	SEÑAL ASPA-FLECHA DE EXTERIOR, DIMENSIONES 1000X1000X200 MM, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL QUINIENTOS VEINTISÉIS EUROS con OCHENTA Y CINCO CÉNTIMOS	3,526.85
594	997.0194N1	ud	PANEL STOP A X00 M + 2 PILOTOS ÁMBAR-ÁMBAR, ACTIVACIÓN POR CONTACTOS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL UN EUROS con TRES CÉNTIMOS	3,001.03
595	997.0195N1	ud	PANEL DE MENSAJE VARIABLE COMPUESTO POR PANEL ALFANUMÉRICO DE 3 FILAS POR 12 CARACTERES DE 300 MM Y DOS PANELES GRÁFICOS DE 1400X1400, IP-55, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CINCUENTA Y NUEVE MIL OCHOCIENTOS CUATRO EUROS con CUARENTA Y OCHO CÉNTIMOS	59,804.48
596	997.0196N1	ud	SEMÁFORO MODULAR DE TECNOLOGÍA LEDS DE 2 FOCOS DE 300 MM (2/300), INCLUYENDO PANTALLA DE CONTRASTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL TREINTA Y SEIS EUROS con VEINTIÚN CÉNTIMOS	1,036.21

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
597	997.0198N1	ud	SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL TRESCIENTOS OCHENTA Y NUEVE EUROS con CINCO CÉNTIMOS	3,389.05
598	997.0199N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.	DIECISÉIS MIL SEIS EUROS	16,006.00
599	997.0200N1	ud	ESTACIÓN REMOTA DE TÚNEL ERYT, 6 PUERTOS SERIE PARA PERIFÉRICOS RS232/RS422, 1 LÍNEA RS232 CON CC, ARMARIO IP55, FUENTE DE ALIMENTACIÓN. EQUIPADA CON 96 ENTRADAS DIGITALES, 64 SALIDAS DIGITALES Y 16 ENTRADAS ANALÓGICAS.	DOCE MIL OCHOCIENTOS SESENTA Y NUEVE EUROS con TREINTA Y DOS CÉNTIMOS	12,869.32
600	997.0201N1	ud	ORDENADOR SERVIDOR PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 15", INCLUIDO SISTEMA OPERATIVO WINDOWS XP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	QUINCE MIL CUARENTA Y DOS EUROS con TREINTA Y DOS CÉNTIMOS	15,042.32
601	997.0202N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 8 FIBRAS ÓPTICAS SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS, TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	ONCE EUROS con SESENTA Y UN CÉNTIMOS	11.61

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
602	997.0203N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECISÉIS EUROS con CUARENTA Y NUEVE CÉNTIMOS	16.49
603	997.0204N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 6X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOCE EUROS con DIECISIETE CÉNTIMOS	12.17
604	997.0205N1	ud	SUMINISTRO E INSTALACIÓN DE CAJA DE FIBRA ÓPTICA PARA CONEXIÓN, INCLUSO PEQUEÑO MATERIAL Y FUNCIONANDO PERFECTAMENTE.	SEISCIENTOS VEINTIOCHO EUROS con VEINTITRÉS CÉNTIMOS	628.23
605	997.0206N1	ud	SWITCH PARA POSTE SOS, TIPO FIBERGATE O SIMILAR, EN CABINA DE 19" DE 3U. INCLUYE FUENTE DE ALIMENTACIÓN DE 220VAC, DOS PUERTOS DE FO MONOMODO 100BASEFX (1300NM) PARA DISTANCIAS HASTA 40KM APROX. CONECTORES TIPO SC. SEIS PUERTOS FJ45 10/100 BATE T/TX, DOS LÍNEAS SERIE ASÍNCRONAS CON CONECTOR DB9, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATROCIENTOS TREINTA Y TRES EUROS con CUARENTA CÉNTIMOS	433.40
606	997.0207N1	ud	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, QUE CONECTA EL SWITCH CON LA CAJA DE FIBRA ÓPTICA, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.		67.60

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SESENTA Y SIETE EUROS con SESENTA CÉNTIMOS	
607	997.0208N1	ud	PLAFÓN LUMINOSO SOS/EXTINTOR DE MEDIDAS 600X500, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	QUINIENTOS VEINTIDÓS EUROS con CUARENTA Y CUATRO CÉNTIMOS	522.44
608	997.0209N1	ud	SUMINISTRO Y MONTAJE DE PUESTOS SOS ESCLAVO DE EXTERIOR, INCLUYENDO MICRÓFONO Y ALTAVOZ DOBLE PARA COMUNICACIÓN "MANOS LIBRES" CON LA CASETA DE CONTROL, PULSADOR DE LLAMADA, CARCASA DE PROTECCIÓN EN FIBRA DE VIDRIO, CON CONTACTO DE APERTURA DE PUERTA, COMPLETAMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL SETECIENTOS TREINTA Y SIETE EUROS con VEINTE CÉNTIMOS	1,737.20
609	997.0210N1	ud	SUMINISTRO E INSTALACIÓN DE POSTE DE AUXILIO ESCLAVO (S.O.S.) INTERIOR EN ARMARIO METÁLICO TROPICALIZADO, CON COMPARTIMENTO PARA 2 EXTINTORES DE 6 KG., PULSADOR DE LLAMADA, MICRÓFONO, ALTAVOZ, CAJA DE CONEXIONES, ELECTRÓNICA, FIJACIÓN A ARMARIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL NOVECIENTOS TRES EUROS con SESENTA Y DOS CÉNTIMOS	1,903.62
610	997.0211N1	ud	SUMINISTRO E INSTALACIÓN DE POSTE SOS MAESTRO DE INTERIOR. ELECTRÓNICA POSTE SOS/TCP/IP CON VIDEO FIBERGATE O SIMILAR. CONTROLADOR ELECTRÓNICO DE DOS POSTES SOS MAESTRO Y ESCLAVO. INCLUYE DOS PUERTOS 100 FX CON FIBRA MONOMODO PARA TOPOLOGÍA DE ANILLO, ELECTRÓNICA DE CONTROL DE AUDIO, ENTRADAS/SALIDAS DE CONTACTO Y UN ENCODER DE VIDEO MPEG4. 4 ENTRADAS DE VIDEO RG58. INSTALADO EN ARMARIO DE SOS DE ACERO INOXIDABLE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TRES MIL NOVECIENTOS DIECISÉIS EUROS con CINCUENTA Y SEIS CÉNTIMOS	3,916.56

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
611	997.0212N1	ud	CIMENTACIÓN DE POSTE SOS	DOSCIENTOS SESENTA Y SIETE EUROS con SESENTA Y TRES CÉNTIMOS	267.63
612	997.0213N1	ud	SUMINISTRO E INSTALACIÓN DE TECLADO DE CONTROL PARA VIDEO IP, CONECTADO AL PUESTO DE CONTROL, JOYSTICK CON EFECTO DE HALL DE TRES EJES X/Y: PARA MOVIMIENTO VERTICAL Y HORIZONTAL, Z: BOTÓN PARA EL ZOOM, 6 TECLAS DE ACCESO DIRECTO A APLICACIONES DEFINIDAS. DELIMITADOR CUADRADO, MOVIMIENTO HORIZONTAL/VERTICAL (XY): +/- 15°, ZOOM (Z): +/- 25°.	CINCO MIL CINCUENTA Y CUATRO EUROS con SESENTA Y SEIS CÉNTIMOS	5,054.66
613	997.0214N1	ud	SUMINISTRO E INSTALACIÓN DE SERVIDOR DE PROCESO HP Z200 WORKSTATION O SIMILAR CON EFFICIENT CHASSIS, MS WINDOWS 7 PROFESSIONAL 32-BIT OS, INTEL CORE I3-540 3.06 4MB/1333 DC CPU,4GB (2X2GB) DDR3-1333 ECC RAM, NVIDIA NVS 300 512MB GRAPHICS, 250GB SATA 7200 1ST HDD, USB STANDARD KEYBOARD, USB OPTICAL SCROLL MOUSE, 16X DVD+-RW SUPERMULTI SATA 1ST DRIVE, PANTALLA TFT 15", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTICUATRO MIL CUATROCIENTOS NOVENTA EUROS con SESENTA Y SEIS CÉNTIMOS	24,490.66
614	997.0215N1	ud	SUMINISTRO E INSTALACIÓN DE GRABADOR DIGITAL IP VIDEO I-SCSI (6TB) EN FORMATO RACK 19", CON CONFIGURACIÓN RAID 5 Y 4 DISCOS 2TB, CON CAPACIDAD DE HASTA 150 CÁMARAS. INCLUYE SOFTWARE COMERCIAL DE GESTIÓN DE GRABACIÓN EN ESTACIÓN DE TRABAJO/SERVIDOR. PERMITE BÚSQUEDA DE MOVIMIENTO EN LAS IMÁGENES GRABADAS (UMBRAL DE MOVIMIENTO CONFIGURABLE), ROLLBACK Y BÚSQUEDA DE GRABACIONES POR CÁMARA, TIPO, FECHA Y HORA. PROBADO Y EN PERFECTO FUNCIONAMIENTO.	TREINTA Y TRES MIL CIENTO SESENTA Y CINCO EUROS con DIECISIETE CÉNTIMOS	33,165.17

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
615	997.0216N1	ud	SUMINISTRO E INSTALACIÓN DE DECODEC IP/PAL, CON 4-CANALES MPEG-4 DE VIDEO, CALIDAD DVD-VIDEO (D1, 25/30 FPS), DISEÑO COMPACTO PARA ALTA DENSIDAD DE VIDEO, DUPLEX SERIAL DATA, MJPEG WEB VIEWING, ADVANCED VIDEO OVERLAY (OSD), INTERFACE WEB PROTEGIDO POR CONTRASEÑA, SOPORTA SNMPV2 Y NTP, Y RANGO EXTENDIDO DE TEMPERATURA. TOTALMENTE PROBADO Y FUNCIONANDO.	CINCO MIL SETECIENTOS OCHENTA Y UN EUROS con CINCUENTA Y SEIS CÉNTIMOS	5,781.56
616	997.0217N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO CERRADO DE TELEVISIÓN, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.	CINCO MIL TREINTA Y NUEVE EUROS con TREINTA Y DOS CÉNTIMOS	5,039.32
617	997.0218N1	ud	MONITOR DE COLOR DE ALTA RESOLUCIÓN 19", 700 LÍNEAS, PARA MONTAJE EN PANEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	MIL TRESCIENTOS SETENTA Y TRES EUROS con SETENTA Y DOS CÉNTIMOS	1,373.72
618	997.0219N1	m	CABLE COAXIAL RG-59, TOTALMENTE TENDIDO, CONECTORIZADO Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CINCO EUROS con CUARENTA Y OCHO CÉNTIMOS	5.48
619	997.0220N1	ud	REALIZACIÓN DE EMPALMES EN TERMINAL DE 4 FIBRAS ÓPTICAS SM EN CUARTOS TÉCNICOS Y CCTV, INCLUSO MATERIAL PARA EMPALME DE FIBRA ÓPTICA Y PEQUEÑO MATERIAL, TOTALMENTE PROBADO Y FUNCIONANDO.	MIL CIENTO VEINTITRÉS EUROS con CUARENTA Y CUATRO CÉNTIMOS	1,123.44

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
620	997.0221N1	ud	SUMINISTRO E INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NUEVE MIL DOSCIENTOS NOVENTA Y CUATRO EUROS con CINCUENTA CÉNTIMOS	9,294.50
621	997.0222N1	ud	SUMINISITRO E INSTALACIÓN DE CONVERSOR DE MEDIO IP A FIBRA ÓPTICA SM, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE PROBADO E INSTALADO.	MIL OCHENTA Y DOS EUROS con SESENTA Y NUEVE CÉNTIMOS	1,082.69
622	997.0223N1	m	SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.	TRECE EUROS con SESENTA Y UN CÉNTIMOS	13.61
623	997.0224N1	ud	EMPALME DE FIBRA ÓPTICA, , INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SETENTA Y SIETE EUROS con DOS CÉNTIMOS	77.02
624	997.0225N1	m	CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIEZ EUROS con SESENTA Y UN CÉNTIMOS	10.61
625	997.0226N1	ud	CABLE DE MANGUERA DE 17 M. PARA SEÑALES DE CÁMARA TV EN POSTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS CINCUENTA Y CINCO EUROS con CUATRO CÉNTIMOS	255.04

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
626	997.0227N1	ud	ARMARIO PIÉ DE CÁMARA 800X600X200. INCLUSO PROTECCIONES ELÉCTRICAS Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	NOVECIENTOS CINCO EUROS con SIETE CÉNTIMOS	905.07
627	997.0228N1	ud	INSTALACIÓN DE CARCASA PARA CÁMARA + LENTE 262MM. 230VCA. CON CALEFACTOR. IP55. MODELO HSG 9853/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS SESENTA Y CINCO EUROS con OCHENTA Y SEIS CÉNTIMOS	265.86
628	997.0229N1	ud	COLUMNA DE BASE HORMIGONADA DE 15 M. PARA CÁMARA TV. (NO INCLUYE LA OBRA CIVIL)	CUATROCIENTOS VEINTE EUROS con NOVENTA Y CUATRO CÉNTIMOS	420.94
629	997.0230N1	ud	INSTALACIÓN DE SOPORTE DE PARED 30CM PARA CARCASAS DE CÁMARAS. MODELO LTC 9215/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS VEINTISIETE EUROS con SESENTA CÉNTIMOS	227.60
630	997.0231N1	ud	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM CON CORRECCIÓN DE INFRARROJOS. MODELO LTC 3674/20 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS CUARENTA Y CUATRO EUROS con SESENTA Y SEIS CÉNTIMOS	244.66
631	997.0232N1	ud	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM. MODELO LTC 3374/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS TREINTA Y SEIS EUROS con CUARENTA Y CUATRO CÉNTIMOS	236.44

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
632	997.0233N1	ud	INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUATRO MIL NOVENTA Y OCHO EUROS con VEINTICUATRO CÉNTIMOS	4,098.24
633	997.0234N1	ud	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES SC/PC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.	SESENTA Y SIETE EUROS con OCHENTA Y UN CÉNTIMOS	67.81
634	997.0235N1	ud	PUENTE DE CONEXIÓN DE TIERRAS, TOTALMENTE INSTALADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOSCIENTOS VEINTIDÓS EUROS con TREINTA Y CINCO CÉNTIMOS	222.35
635	997.0236N1	ud	PICA DE ACERO COBRE DE 14,6 MM DE DIAMETRO Y 2000 MM DE LONGITUD, I/ GRAPA DE CONEXION Y RESTO DEL MATERIAL TOTALMENTE MONTADA Y CONEXIONADA.	TREINTA Y SIETE EUROS con CINCUENTA Y UN CÉNTIMOS	37.51
636	997.0237N1	m	BANDEJA PERFORADA DE 400 X 60 X 0,8 MM EN ACERO GALVANIZADO EN CALIENTE SEGÚN NORMA UNE-EN-ISO-1461, CUMPLE CON LA NORMA Y ENSAYO DIN 4102-12 DE RESISTENCIA AL FUEGO E90 A 1.000 ºC. CONTINUIDAD ELÉCTRICA GARANTIZADA MEDIANTE CABLE DE PROTECCIÓN DE COBRE DESNUDO DE 16 MM2 CON CONEXIONES A LA BANDEJA SEGÚN NORMATIVA, RESISTENTE A LA CORROSIÓN CLASE 7, CON 70 MICRAS DE ESPESOR DE GALVANIZADO EN CALIENTE, I/ MATERIAL AUXILIAR DE UNION, FIJACION Y ANCLAJE TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TREINTA Y CUATRO EUROS con OCHENTA Y SIETE CÉNTIMOS	34.87

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
637	997.0238N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 35) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIEZ EUROS con TREINTA Y UN CÉNTIMOS	10.31
638	997.0239N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 50) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECISIETE EUROS con VEINTISIETE CÉNTIMOS	17.27
639	997.0240N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 70) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	VEINTIDÓS EUROS con CINCUENTA Y SEIS CÉNTIMOS	22.56
640	997.0241N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 95) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TREINTA EUROS con CUARENTA Y CINCO CÉNTIMOS	30.45
641	997.0242N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 120) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TREINTA Y TRES EUROS con QUINCE CÉNTIMOS	33.15

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
642	997.0243N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 185) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y SEIS EUROS con TREINTA Y OCHO CÉNTIMOS	46.38
643	997.0244N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 240) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CUARENTA Y SEIS EUROS con CINCUENTA Y UN CÉNTIMOS	46.51
644	997.0245N1	m	CONDUCTOR DE COBRE DESNUDO DE 35 MM2, TOTALMENTE INSTALADO, I/ PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	DOS EUROS con VEINTE CÉNTIMOS	2.20
645	997.0246N1	ud	TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A, TOTALMENTE TERMINADO.	CIENTO CUARENTA Y CINCO EUROS con OCHENTA Y SIETE CÉNTIMOS	145.87
646	997.0247N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CINCO EUROS con CUATRO CÉNTIMOS	5.04
647	997.0248N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SIETE EUROS con CUARENTA Y DOS CÉNTIMOS	7.42

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
648	997.0249N1	m	CABLE DE COBRE DE 0.6/1 KV DE 3G2,5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS EUROS con NOVENTA Y CUATRO CÉNTIMOS	2.94
649	997.0250N1	m	CABLE DE COBRE DE 0.6/1 KV DE 5G6 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	OCHO EUROS con NOVENTA Y UN CÉNTIMOS	8.91
650	997.0251N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 3G2.5 MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CINCO EUROS con SESENTA Y SEIS CÉNTIMOS	5.66
651	997.0252N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G6 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DIECINUEVE EUROS con TREINTA Y UN CÉNTIMOS	19.31
652	997.0253N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G16 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	TREINTA Y CUATRO EUROS con TREINTA Y CINCO CÉNTIMOS	34.35

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
653	997.0254N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE, MOTOR DE 45 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOCE MIL QUINIENTOS SETENTA Y SIETE EUROS con VEINTISIETE CÉNTIMOS	12,577.27
654	997.0255N1	ud	ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.	SEIS MIL SEISCIENTOS CINCUENTA Y SIETE EUROS con UN CÉNTIMOS	6,657.01
655	997.0256N1	ud	ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES.	SIETE MIL QUINIENTOS SESENTA Y TRES EUROS con TREINTA Y UN CÉNTIMOS	7,563.31
656	997.0257N1	ud	DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES.	SEIS MIL CIENTO OCHENTA EUROS con UN CÉNTIMOS	6,180.01
657	997.0258N1	ud	VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.	TRES MIL TRESCIENTOS NOVENTA Y DOS EUROS con VEINTIÚN CÉNTIMOS	3,392.21
658	997.0259N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES.	TRES MIL QUINIENTOS SETENTA Y CUATRO EUROS con CINCUENTA Y TRES CÉNTIMOS	3,574.53

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
659	997.0260N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.	CINCO MIL SEISCIENTOS VEINTIDÓS EUROS con CUARENTA Y CINCO CÉNTIMOS	5,622.45
660	997.0261N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.	DOS MIL QUINIENTOS SEIS EUROS con CINCO CÉNTIMOS	2,506.05
661	997.0262N1	ud	ANEMÓMETRO DE HÉLICE PARA MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL, RANGO -25 : +25 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL SEISCIENTOS NOVENTA Y OCHO EUROS con SETENTA Y UN CÉNTIMOS	2,698.71
662	997.0263N1	ud	ANEMÓMETRO DE CAZOLETA PARA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR, RANGO 0 - 40 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	DOS MIL NOVECIENTOS SETENTA Y SIETE EUROS con NOVENTA Y UN CÉNTIMOS	2,977.91
663	997.0264N1	ud	SUMINISTRO E INSTALACIÓN DE ORDENADOR DE SUPERVISIÓN PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO	TRECE MIL SESENTA Y NUEVE EUROS con ONCE CÉNTIMOS	13,069.11
664	997.0265N1	ud	SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.		4,252.01

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CUATRO MIL DOSCIENTOS CINCUENTA Y DOS EUROS con UN CÉNTIMOS	
665	997.0266N1	ud	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		8,585.58
				OCHO MIL QUINIENTOS OCHENTA Y CINCO EUROS con CINCUENTA Y OCHO CÉNTIMOS	
666	997.0267N1	ud	ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		1,730.53
				MIL SETECIENTOS TREINTA EUROS con CINCUENTA Y TRES CÉNTIMOS	
667	997.0268N1	m	CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP		8.76
				OCHO EUROS con SETENTA Y SEIS CÉNTIMOS	
668	997.0269N1	ud	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		9,796.52
				NUEVE MIL SETECIENTOS NOVENTA Y SEIS EUROS con CINCUENTA Y DOS CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
669	997.0270N1	ud	SUMINISTRO E INSTALACIÓN DE BOCINA DE EVACUACIÓN DE 25 W, 100 V, 425 X 355 MM, IP65 SEGÚN IEC 60529, GRIS CLARO RAL 7035, MODELO LBC 3482/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		326.03
				TRESCIENTOS VEINTISÉIS EUROS con TRES CÉNTIMOS	
670	997.0271N1	ud	SUMINISTRO E INSTALACIÓN DE PROYECTOR CILÍNDRICO BIDIRECCIONAL EVACUACIÓN, 10W, ABS, IP65 SEGÚN IEC 60529, BLANCO RAL 9010, 100V, MODELO LP1-BC10E-1 DE BOSCH, O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		279.29
				DOSCIENTOS SETENTA Y NUEVE EUROS con VEINTINUEVE CÉNTIMOS	
671	997.0272N1	m	SUMINISTRO, MONTAJE E INSTALACIÓN DE CABLE DE COBRE PARALELO DE 2X4 MM2 (ROJO-NEGRO) PARA AUDIO, CLASE CPR: DCA S1, D0, A1 Y CUMPLIENDO CON LAS NORMATIVAS UNE 50265-2-1, UNE 50265-2-2 Y UNE 50266-2-2. NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE CAJAS DE DERIVACIÓN, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		6.76
				SEIS EUROS con SETENTA Y SEIS CÉNTIMOS	
672	997.0273N1	ud	SUMINISTRO Y MONTAJE DE CAJA DE DERIVACIÓN DE PVC-M1 DE 90X90X42 MM, CON P.P. DE CABLE DE MEGAFONÍA 2,5 MM² HASTA ALTAVOZ O PROYECTOR SONORO, CLEMAS DE CONEXIÓN, Y ACCESORIOS DE FIJACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP		10.28
				DIEZ EUROS con VEINTIOCHO CÉNTIMOS	
673	997.0274N1	ud	ARQUETA DE REGISTRO DE 150X100 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.		396.63

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				TRESCIENTOS NOVENTA Y SEIS EUROS con SESENTA Y TRES CÉNTIMOS	
674	997.0275N1	ud	ARQUETA DE REGISTRO DE 80X50 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.		238.16
				DOSCIENTOS TREINTA Y OCHO EUROS con DIECISÉIS CÉNTIMOS	
675	997.0276N1	ud	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 80X80 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.		233.41
				DOSCIENTOS TREINTA Y TRES EUROS con CUARENTA Y UN CÉNTIMOS	
676	997.0277N1	ud	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 50X50 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.		126.65
				CIENTO VEINTISÉIS EUROS con SESENTA Y CINCO CÉNTIMOS	
677	997.0278N1	ud	ARQUETA TIPO III DE PASO, DERIVACION O TOMA DE TIERRA CONSTRUIDA CON FABRICA DE LADRILLO ENFOSCADA INTERIORMENTE CON M-450, SEGUN PLANOS., INCLUSO MOVIMIENTO DE TIERRAS Y TAPA DE FUNDICION, SITUADA EN ACERA DE NUEVA CONSTRUCCION DE 0.20 M DE ESPESOR, COMPLETAMENTE TERMINADA		3,879.46
				TRES MIL OCHOCIENTOS SETENTA Y NUEVE EUROS con CUARENTA Y SEIS CÉNTIMOS	
678	997.0279N1	m	CANALIZACIÓN SUBTERRÁNEA HORMIGONADA, DE DIMENSIONES 0,40X0,80 M. INCLUSO MOVIMIENTO DE TIERRAS CON ZANJA EXCAVADA A MAQUINA, LECHO DE ARENA DE RÍO, CINTA SEÑALIZADORA Y 6 TUBOS DE PVC 110 MM DE DIÁMETRO, COMPLETAMENTE TERMINADA.		78.23

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				SETENTA Y OCHO EUROS con VEINTITRÉS CÉNTIMOS	
679	997.0280N1	m	TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 MM. DE DIÁMETRO EXTERIOR, INCLUIDA P.P. DE MANGUITOS, TAPONES Y SELLADO IGNÍFUGO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO HORMIGONADO, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP		4.36
				CUATRO EUROS con TREINTA Y SEIS CÉNTIMOS	
680	997.0281N1	ud	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE NO2, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		1,716.54
				MIL SETECIENTOS DIECISÉIS EUROS con CINCUENTA Y CUATRO CÉNTIMOS	
681	997.0282N1	ud	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE CO, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		1,094.69
				MIL NOVENTA Y CUATRO EUROS con SESENTA Y NUEVE CÉNTIMOS	
682	997.0283N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 2X2X0.9 MM, ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		9.12
				NUEVE EUROS con DOCE CÉNTIMOS	
683	997.0284N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, ARMADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		8.29
				OCHO EUROS con VEINTINUEVE CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
684	997.0285N1	ud	COMPUERTA DE SOBREPRESIÓN CON MARCO EN U DE ACERO GALVANIZADO Y LAMAS EN ALUMINIO PERFILADO DE 600X600 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		276.28
				DOSCIENTOS SETENTA Y SEIS EUROS con VEINTIOCHO CÉNTIMOS	
685	997.0286N1	ud	COMPUERTA CORTAFUEGO DESTINADA A AISLAR LOS SECTORES DE INCENDIO DE 600X600 MM. CON CARCASA Y ELEMENTOS DE ACCIONAMIENTO DE ACERO GALVANIZADO, Y UNA RESITENCIA AL FUEGO RF-120, INSTALADA CON MARCO DE ANCLAJE, I/FIJACIÓN Y RECIBIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		400.72
				CUATROCIENTOS EUROS con SETENTA Y DOS CÉNTIMOS	
686	997.0287N1	ud	OPACÍMETROS POR DISPERSIÓN DE LUZ CON ÁNGULO DE 30 GRADOS, CON DOBLE HAZ LUMINOSO, SISTEMA DE MEDIDA DE AUTOCALIBRACIÓN CON CONTROL CONTINUO DEL PUNTO CERO Y VALOR 100%, MARGEN DE MEDIDA 0 ... 15 X 0,001 /M INCLUIDO BARRA DE VERIFICACIÓN, CON CONTROL POR MICROORDENADOR, SALIDA POR BUS ORNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		9,055.94
				NUEVE MIL CINCUENTA Y CINCO EUROS con NOVENTA Y CUATRO CÉNTIMOS	
687	997.0288N1	ud	PUERTA METÁLICA CORTAFUEGOS DE DOS HOJAS PIVOTANTES DE 900X2000 MM HOMOLOGADA RF-120, CONSTRUIDA CON DOS CHAPAS DE ACERO ELECTROCINCADO DE 0,80 MM. DE ESPESOR Y CÁMARA INTERMEDIA DE MATERIAL AISLANTE IGNÍFUGO, SOBRE CERCO ABIERTO DE CHAPA DE ACERO GALVANIZADO DE 1,20 MM Y DOTADA DE MIRILLA CIRCULAR. DE ESPESOR, CON SIETE PATILLAS PARA FIJACIÓN A OBRA, CERRADURA EMBUTIDA Y CREMONA DE CIERRE AUTOMÁTICO, SISTEMA DE APERTURA ANTIPÁNICO, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, INCLUSO ACABADO EN PINTURA EPOXI POLIMERIZADA AL HORNO. CON DOBLE PUERTA PEATONAL, LA DERECHA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO TÚNEL-GALERÍA , LA IZQUIERDA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO GALERÍA-TÚNEL. SEGÚN PPTP		4,355.91

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
				CUATRO MIL TRESCIENTOS CINCUENTA Y CINCO EUROS con NOVENTA Y UN CÉNTIMOS	
688	997.0289N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1663 N DE EMPUJE, MOTOR DE 55 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		13,307.61
				TRECE MIL TRESCIENTOS SIETE EUROS con SESENTA Y UN CÉNTIMOS	
689	997.0290N1	ud	DE CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.		528.80
				QUINIENTOS VEINTIOCHO EUROS con OCHENTA CÉNTIMOS	
690	997.0291N1	m²	FORMACIÓN DE ESCALERA SOBRE LOSA, TOTALMENTE TERMINADA.		385.10
				TRESCIENTOS OCHENTA Y CINCO EUROS con DIEZ CÉNTIMOS	
691	997.0292N1	m	JUNTA EN MUROS.		45.12
				CUARENTA Y CINCO EUROS con DOCE CÉNTIMOS	
692	997.0293N1	m	PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 M, TOTALMENTE COLOCADA EN OBRA.		45.35
				CUARENTA Y CINCO EUROS con TREINTA Y CINCO CÉNTIMOS	

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
693	997.0294N1	ud	ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL, HASTA UNA LONGITUD DE 25 M, EN TERRENO DURO, CON ROTURA DE PAVIMENTO POR MEDIO DE COMPRESOR, EXCAVACIÓN MECÁNICA, TUBO DE HORMIGÓN CENTRIFUGADO D=25 CM, RELLENO Y APISONADO DE ZANJA CON TIERRA PROCEDENTE DE LA EXCAVACIÓN, INCLUYE LIMPIEZA Y TRANSPORTE DE TIERRAS SOBRANTES A PIE DE CARGA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	SEISCIENTOS EUROS con NUEVE CÉNTIMOS	600.09
694	997.0295N1	ud	ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL CON TUBERÍA DE ACERO GALVANIZADO DE 1" DE DIÁMETRO CON T REDUCCIÓN DE 1 1/4" A 1", VÁLVULA DE 1/4 DE VUELTA Y VÁLVULA DE FLOTADOR, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	CIENTO CINCUENTA Y CINCO EUROS con ONCE CÉNTIMOS	155.11
695	997.0301N1	u	SUMINISTRO, MONTAJE E INSTALACIÓN DE PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 LM (61 W). INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	CIENTO CINCUENTA Y NUEVE EUROS con CINCUENTA Y OCHO CÉNTIMOS	159.58

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
696	997.0302N1	m	CABLEADO HORIZONTAL DE PAR TRENZADO, FORMADA POR CABLE FTP DE 4 PARES, CATEGORÍA 6 PVC, EN MONTAJE EN CANAL O BANDEJA (NO INCLUIDA), INSTALADO, MONTAJE Y CONEXIONADO. INCLUYE PARTE PROPORCIONAL DE CANALIZACIÓN BAJO TUBO CORRUGADO LH DE DIÁMETRO 32 PARA TRAMOS DEONDE NO EXISTA BANDEJA. CONFORME A ISO/IEC 11801:2017, IEC 61156-5:2020, UNE-EN 50173-1:2018, UNE-EN 50288-6-1:2013. MATERIALES CON MARCADO CE Y DDP (DECLARACIÓN DE PRESTACIONES) SEGÚN REGLAMENTO (UE) 305/2011.	SEIS EUROS con CUARENTA Y UN CÉNTIMOS	6.41
697	997.0715N1	ud	SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	OCHO MIL CIENTO TRES EUROS con OCHENTA Y SEIS CÉNTIMOS	8,103.86
698	997.0811N1	ud	REALIZACIÓN DE FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA PARA FIBRA ÓPTICA DE CONEXIÓN A EQUIPOS. INCLUSO EQUIPOS PARA PRUEBAS, MANO DE OBRA, INFORME DE PRUEBAS, PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	CIENTO DIECISÉIS EUROS con TREINTA Y NUEVE CÉNTIMOS	116.39
699	999.0256N1	PA.IA	PA DE ABONO ÍNTEGRO PARA LA EJECUCIÓN DE MEDIDAS COMO CONSECUENCIA DEL INFORME DE AUDITORÍA DE SEGURIDAD VIARIA EN LA FASE INICIAL EN SERVICIO	CINCO MIL EUROS	5,000.00
700	999.0257N1	PA.IA	PARTIDA ALZADA DE ABONO ÍNTEGRO DE LIMPIEZA Y TERMINACIÓN DE LAS OBRAS, SEGÚN O.C.15/2003	SESENTA MIL EUROS	60,000.00

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
701	999.0274N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO	CIENTO NOVENTA Y TRES EUROS con CUARENTA CÉNTIMOS	193.40
702	999.0275N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO, I/ CIMENTACIÓN Y PARTE PROPORCIONAL DE ARQUETAS, CANALIZACIONES Y CABLEADO	MIL NOVECIENTOS OCHENTA Y TRES EUROS con NOVENTA Y SEIS CÉNTIMOS	1,983.96
703	999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	UN EUROS con CINCUENTA Y DOS CÉNTIMOS	1.52
704	999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	OCHENTA Y UN EUROS con SETENTA CÉNTIMOS	81.70
705	999.0279N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	MIL DOSCIENTOS TREINTA Y SEIS EUROS con OCHENTA Y NUEVE CÉNTIMOS	1,236.89
706	999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV	CINCO EUROS con CUATRO CÉNTIMOS	5.04
707	999.0281N1	ud	TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD	CIENTO SESENTA Y UN EUROS con CUARENTA Y SIETE CÉNTIMOS	161.47

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
708	999.0282N1	m	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	OCHO EUROS con CATORCE CÉNTIMOS	8.14
709	999.0303N1	ud	VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA	OCHENTA Y OCHO EUROS con CINCUENTA Y UN CÉNTIMOS	88.51
710	999.0304N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTILVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	DOS MIL SEISCIENTOS VEINTISIETE EUROS con TREINTA Y NUEVE CÉNTIMOS	2,627.39
711	999.0305N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTILVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	SEIS MIL TRESCIENTOS OCHENTA Y CINCO EUROS con VEINTINUEVE CÉNTIMOS	6,385.29
712	999.0307N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	OCHOCIENTOS SETENTA Y SEIS EUROS con TREINTA Y CUATRO CÉNTIMOS	876.34
713	999.0312N1	m	REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 MM)	DOSCIENTOS TREINTA Y OCHO EUROS con VEINTIDÓS CÉNTIMOS	238.22
714	999.0313N1	m	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)	TRESCIENTOS NOVENTA Y SEIS EUROS con VEINTIDÓS CÉNTIMOS	396.22

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE
715	999.0320N1	ud	VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA	CINCUENTA Y DOS EUROS con SESENTA Y CINCO CÉNTIMOS	52.65
716	999.0321N1	ud	SUMINISTRO Y COLOCACIÓN DE BOLARDO MACIZO DE FUNDICIÓN, DE 1,0 M DE ALTURA LIBRE, DE FORMA CILÍNDRICA D=0,1 M, CON BASE RESALTADA Y REFORZADA, COLOCADO EN ÁREAS PAVIMENTADAS, REMATES DE PAVIMENTO Y LIMPIEZA, TERMINADO	SETENTA Y OCHO EUROS con NUEVE CÉNTIMOS	78.09

Ourense, a Agosto 2023

EL INGENIERO AUTOR DEL PROYECTO

Ignacio Barroso Sánchez

EL INGENIERO DIRECTOR DEL PROYECTO

Javier Serafín Frade Fernández

Vº. Bº. EL INGENIERO JEFE DE LA DEMARCACIÓN

Ángel González del Río

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 1

Nº	CÓDIGO	UD.	RESUMEN	PRECIO EN LETRA	IMPORTE

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2.2. CUADRO DE PRECIOS Nº 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

001 1000.0001N1 m

RIPADO DE VÍA HASTA 2 M COMPRENDIENDO CORTES DE CARRIL, BATEO Y NIVELACIÓN, INCLUSO HERRAMIENTAS Y MEDIOS AUXILIARES QUE SE PRECISEN, ASÍ COMO LOS MEDIOS DE SEGURIDAD Y PROTECCIÓN REGLAMENTARIOS.

Mano de obra	19.47
Maquinaria	2.04
Coste Indirecto 6%	1.29
TOTAL PARTIDA	22.80

002 1000.0002N1 m

SUMINISTRO Y MONTAJE DE VÍA , CON CARRIL NUEVO TIPO UIC-54, TRAVIESA NUEVA DE HORMIGÓN CADA 0,6 M CON SUJECIÓN Y ACCESORIOS NECESARIOS, RECTIFICACIÓN Y BATEO NECESARIO HASTA CUMPLIR LAS TOLERANCIAS CORRESPONDIENTES A LA PRIMERA NIVELACIÓN, PERFILADO DE BANQUETAS, LIMPIEZA Y ENRASADO DE PASEOS Y ENTREVÍA HASTA CONSEGUIR LA SECCIÓN TIPO DEFINIDA EN PLANOS.

Mano de obra	11.70
Maquinaria	83.95
Materiales	353.10
Coste Indirecto 6%	26.93
TOTAL PARTIDA	475.68

003 1000.0003N1 m³

BALASTO DE PIEDRA SILÍCEA TIPO 1 EN TOLVA PROCEDENTE DE CANTERA, SUMINISTRADO, TRANSPORTADO, EXTENDIDO, HUMIDIFICADO, COMPACTADO Y NIVELACIÓN Y ACABADO DE LA SUPERFICIE.

Mano de obra	4.74
Maquinaria	15.94
Materiales	18.50
Coste Indirecto 6%	2.35
TOTAL PARTIDA	41.53

004 1000.0004N1 m³

CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA I/ EXCAVACIÓN, CARGA Y TRANSPORTE DE MATERIAL HASTA UNA DISTANCIA DE 30 KM, SUMINISTRO DE MATERIAL ASÍ COMO EL CANON Y LOS PERMISOS NECESARIOS, EXTENDIDO, HUMIDIFICACIÓN Y COMPACTACIÓN DEL MATERIAL, NIVELACIÓN Y ACABADO DE LA SUPERFICIE, EJECUCIÓN DE TRAMO DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.

Mano de obra	0.42
Maquinaria	2.58
Materiales	5.93
Coste Indirecto 6%	0.54
TOTAL PARTIDA	9.47

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

005 1000.0005N1 m³

SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA I/ FABRICACIÓN, SUMINISTRO HASTA UNA DISTANCIA DE 20 KM, MAQUINARIA, EXTENDIDO, HUMIDIFICACIÓN, COMPACTACIÓN, NIVELACIÓN, ACABADO DE SUPERFICIE, EJECUCIÓN DE TRAMOS DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.

Mano de obra	0.42
Maquinaria	2.58
Materiales	10.33
Coste Indirecto 6%	0.80
TOTAL PARTIDA	14.13

006 1000.0007N1 m

LEVANTE DE VÍA DE CUALQUIER TIPO, PREVIAMENTE DESGUARNECIDA O NO, CON CARRILES Y FIJACIÓN DE CUALQUIER TIPO CON O SIN DESLIZANTE, COMPRENDIENDO LA RETIRADA DE CARRILES, TRAVIESAS Y PEQUEÑO MATERIAL, INCLUSO BALASTO, ACOPIO Y CLASIFICACIÓN DE LOS MISMOS, CARGA SOBRE VAGÓN, CLASIFICACIÓN EN PARQUE DEL MATERIAL APROVECHABLE Y TRANSPORTE Y DESCARGA DE PRODUCTOS SOBRANTES EN VERTEDERO Y COMPENSACIÓN POR LA OBLIGACIÓN DE PARALIZACIÓN DE EQUIPOS POR EL PASO DE TRENES.

Mano de obra	13.88
Maquinaria	3.61
Materiales	14.24
Coste Indirecto 6%	1.90
TOTAL PARTIDA	33.63

007 1000.0008N1 m

REPLANTEO DE VÍA DOBLE O ÚNICA, INCLUIDOS TODOS LOS DATOS DE NIVELACIÓN, ALINEACIÓN Y PERALTE, BIEN POR FLECHAS Y DISTANCIA LATERAL, BIEN POR COORDENADAS ABSOLUTAS.

Mano de obra	20.46
Materiales	0.12
Coste Indirecto 6%	1.23
TOTAL PARTIDA	21.81

008 1000.0009N1 m

LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO PREVIO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO PREVIO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN PRIMER LEVANTE, APROBADO ÉSTE POR LA D.O. EN EL ESTADO PREVIO A LA RECEPCIÓN LA VÍA ALCANZARÁ UNA COTA DE -27MM RESPECTO A LA COTA CABEZA DE CARRIL. ESTA ACTIVIDAD INCLUYE TRES LEVANTES Y TRES ESTABILIZADOS, QUE SEGUIRÁN LA SIGUIENTE SECUENCIA: DESCARGA DE BALASTO, PERFILADO, BATEO, ESTABILIZADO, PERFILADO Y BARRIDO.

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra.....	5.65
			Maquinaria.....	12.95
			Materiales.....	0.12
			Coste Indirecto 6%.....	1.12
			TOTAL PARTIDA.....	19.84

009 1000.0010N1 ud SOLDADURA ALUMINOTÉRMICA PARA CALIDAD 260 CON PRECALENTAMIENTO AIRE INDUCIDO Y PROPANO EN PLENA VÍA Y KIT DE SOLDADURA CON CRISOL DE UN SOLO USO PARA UNIONES DE CARRILES SEPARADOS ENTRE SÍ UNA DISTANCIA MENOR O IGUAL A 180 M. COMPRENDE LA MANO DE OBRA NECESARIA PARA LA EJECUCIÓN EN VÍA DE LA SOLDADURA PARA UNIÓN DE CARRILES DE CUALQUIER PERFIL, LONGITUD Y CLASE DE ACERO. INCLUYE: DESMONTAJE DE BRIDAS Y TORNILLOS; AFLOJADO DE LAS SUJECIONES NECESARIAS PARA LA ALINEACIÓN DE LOS CARRILES; RETIRADA DE BALASTO PARA EL MOVIMIENTO LATERAL DE TRAVIESAS; LOS TRABAJOS NECESARIOS PARA LA FORMACIÓN DE LA CALA NOMINAL ADECUADA POR DESPLAZAMIENTO DE CARRILES, INCLUSO CON TENSORES HIDRÁULICOS; LOS CORTES CON TRONZADORA NECESARIOS PARA SANEAMIENTO DE LOS EXTREMOS A SOLDAR; ALINEACIÓN EN PLANTA Y ALZADO DE LOS CARRILES CON LOS EQUIPOS ADECUADOS; KIT DE SOLDADURA Y CONSUMIBLES; DESBASTADO, ESMERILADO DE ACABADO Y ARREGLO DEL PERFIL; MARCADO Y REPOSICIÓN DE TODOS LOS ELEMENTOS DE LA VÍA PARA QUE ÉSTA QUEDE EN ÓPTIMAS CONDICIONES DE SERVICIO; TRABAJO DE AFLOJADO Y POSTERIOR APRETADO DE LAS SUJECIONES DE LAS TRAVIESAS COLATERALES DE LA SOLDADURA PARA AMINORAR LAS TENSIONES PROVOCADAS POR LA RETRACCIÓN DE LA SOLDADURA; TRABAJOS AUXILIARES; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF.

		Mano de obra.....	294.59
		Maquinaria.....	1.52
		Materiales.....	72.40
		Coste Indirecto 6%.....	22.11
		TOTAL PARTIDA.....	390.62

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

010 1000.0011N1 m LIBERACIÓN DE TENSIONES EN BARRA LARGA SOLDADA. INCLUYE: MANO DE OBRA PARA EL AFLOJADO DE SUJECIONES EN LA LONGITUD DE VÍA A TRATAR; FORMACIÓN DE PUNTOS FIJOS; COLOCACIÓN DE RODILLOS ENTRE EL CARRIL Y LA TRAVIESA ASÍ COMO SU POSTERIOR RETIRADA (QUITANDO LA PLACA DE ASIENTO Y VOLVIENDO A COLOCARLA), PARA FAVORECER EL DESLIZAMIENTO LONGITUDINAL DE LOS CARRILES CON PEQUEÑOS GOLPES PERCUTIDOS CON MARTILLOS DE MADERA O NYLON; MARCADO DE PUNTOS CADA 50M EN TRAVIESA Y CARRIL PARA EL CONTROL DEL DESPLAZAMIENTO DE LAS SEMIBARRAS; FORMACIÓN DE LA CALA DEFINITIVA CON TENSORES HIDRÁULICOS; APRETADO DE LA SUJECIÓN CON MOTOCLAVADORAS HIDRÁULICAS, QUE CUENTE CON ACEPTACIÓN DE USO DE ADIF, DOTADAS DE PAR DE APRIETE AJUSTADO AL TIPO DE SUJECIÓN TRATADA; MATERIALES Y CONSUMIBLES SITUADOS A PIE DE OBRA; CONTROL DE LA TEMPERATURA DEL ELEMENTO REPARADO; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF; LA ENTREGA DEL ACTA DE NEUTRALIZACIÓN SEGÚN N.A.V. NO SE INCLUYEN NI LOS CORTES NI LAS SOLDADURAS DE CARRIL. EL ABONO DE LA TOTALIDAD DEL IMPORTE CORRESPONDIENTE A ESTA UNIDAD ESTARÁ CONDICIONADO A LA REALIZACIÓN DE LAS COMPROBACIONES, MEDICIONES Y / O INSPECCIONES DESCRITAS EN LA NORMATIVA VIGENTE.

		Mano de obra.....	4.32
		Maquinaria.....	0.52
		Materiales.....	0.43
		Coste Indirecto 6%.....	0.32
		TOTAL PARTIDA.....	5.59

011 1000.0012N1 m LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN ESTADO PREVIO DE LA RECEPCIÓN, APROBADO ÉSTE POR LA D.O. Y TRAS HABER LLEVADO A CABO LA NEUTRALIZACIÓN DE TENSIONES. INCLUYE LAS OPERACIONES DE LEVANTE DESDE LA FASE DE ESTADO PREVIO DE RECEPCIÓN HASTA LA COTA DEFINITIVA, DEJANDO LA VÍA COLOCADA EN PLANTA Y ALZADO.

		Mano de obra.....	2.22
		Maquinaria.....	5.86
		Materiales.....	0.06
		Coste Indirecto 6%.....	0.49
		TOTAL PARTIDA.....	8.63

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
012	1000.0013N1	h	PILOTO DE VÍA, PARA TRABAJOS CERCA DE LAS VÍAS DE FERROCARRIL	
			Mano de obra	49.48
			Coste Indirecto 6%	2.97
			TOTAL PARTIDA	52.45
013	1000.0101N1	m	CANALETA PREFABRICADA PARA CABLES DE DIMENSIONES 400 X 290 MM CON TAPA ARMADA I/ EJECUCIÓN DE ZANJA Y MATERIAL FILTRANTE	
			Mano de obra	6.53
			Maquinaria	7.84
			Materiales	34.37
			Coste Indirecto 6%	2.92
			TOTAL PARTIDA	51.66
014	1000.0102N1	ud	ARQUETA DE HORMIGÓN PARA CABLES	
			Mano de obra	139.06
			Maquinaria	49.52
			Materiales	187.12
			Coste Indirecto 6%	22.54
			TOTAL PARTIDA	398.24
015	1102.0050	m	SUMINISTRO Y MONTAJE DE CABLE DE 2 PARES TRENZADOS DE CALIBRE 2X2,5 MM2 CON BLINDAJE DE COBRE ESTAÑADO, COBERTURA >65%. RESISTENCIA>120 OHMIOS /KM, IMPEDANCIA CARACTERÍSTICA DE 100-120 OHMIOS. CAPACIDAD ELÉCTRICA ENTRE CONDUCTORES <60 PF/M . CONDUCTOR Y BLINDAJE <100PF/M. NO PROPAGADOR DE LLAMA NI INCENDIO, LIBRE DE HALÓGENO, BAJA EMISIÓN DE HUMOS OPACOS Y BAJA CORROSIVIDAD. INCLUYE ROTULACIÓN Y TODOS LOS TRABAJOS, MATERIALES Y MEDIOS AUXILIARES PARA DEJAR LA UNIDAD TOTALMENTE INSTALADA PROBADA EN PERFECTO ESTADO DE FUNCIONAMIENTO SEGÚN PLANOS Y DEMÁS DOCUMENTOS DEL PROYECTO, INDICACIONES DE LA DF Y NORMATIVA VIGENTE.	
			Mano de obra	42.35
			Maquinaria	11.62
			Materiales	692.13
			Coste Indirecto 6%	44.77
			TOTAL PARTIDA	790.87

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
016	1102.0051	m	EJECUCIÓN DE BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN (10<H<12 M) INCLUIDO EXCAVACIÓN, HORMIGÓN DE LIMPIEZA, HORMIGÓN PARA ZAPATA DE CIMENTACIÓN, ARMADURAS EN CASO NECESARIO, ENCOFRADO, IMPERMEABILIZACIÓN CON BREA, RELLENO LOCALIZADO PERNOS DE ANCLAJE Y TODAS LAS OPERACIONES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN SIGUIENDO INSTRUCCIONES DE LA DIRECCIÓN FACULTATIVA.	
			Mano de obra	47.56
			Maquinaria	11.39
			Materiales	181.32
			Coste Indirecto 6%	14.42
			TOTAL PARTIDA	254.69
017	202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA	
			Materiales	100.00
			Coste Indirecto 6%	6.00
			TOTAL PARTIDA	106.00
018	211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70	
			Materiales	650.00
			Coste Indirecto 6%	39.00
			TOTAL PARTIDA	689.00
019	213.0020	t	EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA.	
			Mano de obra	45.29
			Maquinaria	68.54
			Materiales	435.78
			Coste Indirecto 6%	32.98
			TOTAL PARTIDA	582.59
020	213.0040	t	EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA.	
			Mano de obra	45.29
			Maquinaria	68.54
			Materiales	530.00
			Coste Indirecto 6%	38.63
			TOTAL PARTIDA	682.46

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

021 215.0020 t BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.

Materiales	730.00
Coste Indirecto 6%	43.80
TOTAL PARTIDA	773.80

022 290.0090 m² GEOTEXTIL FORMADO 100 % POR FIBRAS DE POLIPROPILENO VIRGEN TIPO 9 I/ P.P. DE SOLAPES, TOTALMENTE COLOCADO COMO PROTECCIÓN, Y CON LAS SIGUIENTES PROPIEDADES FÍSICAS: RESISTENCIA A LA TRACCIÓN LONGITUDINAL DE MÁS DE 34,9 KN/M, RESISTENCIA A LA TRACCIÓN TRANSVERSAL DE MÁS DE 43,7 KN/M, ELONGACIÓN LONGITUDINAL EN ROTURA DE MÁS DE 65%, ELONGACIÓN TRANSVERSAL EN ROTURA DE MÁS DE 75%, PUNZONAMIENTO ESTÁTICO (CBR) DE MÁS DE 6910 N, PERFORACIÓN DINÁMICA (CAIDA CONO) DE MENOS DE 5,5 MM Y PERMEABILIDAD AL AGUA DE MÁS DE 19,1 10-6/M²/S.

Mano de obra	1.90
Maquinaria	0.06
Materiales	5.05
Coste Indirecto 6%	0.42
TOTAL PARTIDA	7.43

023 290.0090N1 m² GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.

Mano de obra	3.01
Materiales	3.35
Coste Indirecto 6%	0.38
TOTAL PARTIDA	6.74

024 300.0010 m² DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS I/ DESTOCONADO, ARRANQUE, CARGA Y TRANSPORTE A VERTEDERO O GESTOR AUTORIZADO DE AQUELLOS RESTOS QUE SEA NECESARIO, HASTA UNA DISTANCIA DE 60 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Mano de obra	0.04
Maquinaria	0.50
Coste Indirecto 6%	0.03
TOTAL PARTIDA	0.57

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

025 301.0010 m³ DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE I/ DEMOLICIÓN DE LA CIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	1.34
Maquinaria	7.43
Coste Indirecto 6%	0.53
TOTAL PARTIDA	9.30

026 301.0020 m³ DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	4.45
Maquinaria	26.75
Coste Indirecto 6%	1.87
TOTAL PARTIDA	33.07

027 301.0030 m³ DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	4.04
Maquinaria	24.45
Coste Indirecto 6%	1.71
TOTAL PARTIDA	30.20

028 301.0040 m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	0.26
Maquinaria	3.42
Coste Indirecto 6%	0.22
TOTAL PARTIDA	3.90

029 301.0050 m³ DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	3.82
Maquinaria	20.19
Coste Indirecto 6%	1.44
TOTAL PARTIDA	25.45

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

030 301.0120 m LEVANTAMIENTO DE VALLAS METÁLICAS I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	1.02
Maquinaria	2.58
Coste Indirecto 6%	0.22
TOTAL PARTIDA	3.82

031 301.0125N1 ud LEVANTAMIENTO DE SEÑAL DE TRÁFICO I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	1.02
Maquinaria	2.81
Coste Indirecto 6%	0.23
TOTAL PARTIDA	4.06

032 301.0130 m LEVANTAMIENTO DE BARRERA METÁLICA BIONDA I/ DESMONTAJE, ARRANQUE DE POSTES, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.

Mano de obra	0.84
Maquinaria	4.18
Coste Indirecto 6%	0.30
TOTAL PARTIDA	5.32

033 301.0133N1 m LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.

Mano de obra	53.26
Maquinaria	62.26
Materiales	183.40
Coste Indirecto 6%	17.94
TOTAL PARTIDA	316.86

034 306.0060 m PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS, CON DIÁMETROS COMERCIALES Ø<120MM CON EXTRACCIÓN CONTINUA DE TESTIGO I/ SUMINISTRO DE AGUA Y TESTIFICACIÓN IN SITU POR TÉCNICO COMPETENTE.

Materiales	51.89
Coste Indirecto 6%	3.11
TOTAL PARTIDA	55.00

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

035 306.0103N1 m SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE

Mano de obra	61.28
Maquinaria	118.14
Coste Indirecto 6%	10.77
TOTAL PARTIDA	190.19

036 306.0230 m TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.

Materiales	31.13
Coste Indirecto 6%	1.87
TOTAL PARTIDA	33.00

037 306.0250 ud INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.

Materiales	566.04
Coste Indirecto 6%	33.96
TOTAL PARTIDA	600.00

038 306.0280N1 ud REGISTRADOR ELECTRÓNICO Y AUTÓNOMO PARA MEDIDA DE LAS VARIACIONES PRESIÓN ATMOSFÉRICA Y COMPENSACIÓN EN LAS MEDIDAS DE VARIACIONES DE NIVEL DE AGUA, INCLUSO SUMINISTRO E INSTALACIÓN, INCLUIDO CABLE DE ACERO INOXIDABLE TRENZADO DE 2 MM DE DIÁMETRO PARA REGISTRADOR DE PRESIÓN, ACCESORIOS NECESARIOS Y CAMPAÑA DE RECOGIDA DE DATOS EN CAMPO, INCLUSO LECTURA, DESCARGA Y PROGRAMACIÓN DE REGISTRADORES DE NIVEL EN SONDEOS Y REDACCIÓN DE NOTA TÉCNICA CORRESPONDIENTE.

Mano de obra	64.53
Materiales	1,634.08
Coste Indirecto 6%	101.92
TOTAL PARTIDA	1,800.53

039 306.0290 m PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, SEGÚN UNEENISO22476-2, Y ENSAYO BORRO, SEGÚN UNE 103809, A CUALQUIER PROFUNDIDAD.

Materiales	20.75
Coste Indirecto 6%	1.25
TOTAL PARTIDA	22.00

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
040	306.0320	ud	CALICATA MANUAL O MECÁNICA, INCLUSO FOTOGRAFÍAS EN COLOR Y REPOSICIÓN, I/ TESTIFICACIÓN "IN SITU" A CARGO DE TÉCNICO EXPERTO.	
			Materiales	117.92
			Coste Indirecto 6%	7.08
			TOTAL PARTIDA	125.00
041	306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.	
			Mano de obra	1.86
			Materiales	96.78
			Coste Indirecto 6%	5.92
			TOTAL PARTIDA	104.56
042	306.1301N1	ud	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS	
			Mano de obra	9.80
			Materiales	192.66
			Coste Indirecto 6%	12.15
			TOTAL PARTIDA	214.61
043	306.1320N1	ud	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.	
			Mano de obra	11.76
			Materiales	149.22
			Coste Indirecto 6%	9.66
			TOTAL PARTIDA	170.64
044	306.1330N1	m	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.	
			Mano de obra	5.88
			Materiales	19.27
			Coste Indirecto 6%	1.51
			TOTAL PARTIDA	26.66

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
045	307.0080	m²	BARRERA DINÁMICA PARA LA RETENCIÓN DE DESPRENDIMIENTOS ROCOSOS. CAPACIDAD DE ABSORCIÓN DE ENERGÍA = 500 KJ. CONSTRUIDA Y ENSAYADA SEGÚN RECOMENACIÓN DE LA GUIA ETAG 027, EAD 340059-00 O ANALOGOS Y CON MARCADO CE. ALTURA DE 2,0 A 2,5 M, CON UNA SEPARACIÓN ENTRE POSTES DE SOSTENIMIENTO DE 8 A 12 METROS MÁXIMO Y CERRAMIENTO POR MEDIO DE RED DE CABLE O RED DE ANILLOS Y/O MALLAS DE ACERO GALVANIZADO DE DIMENSIONES EQUIVALENTES, COMPLETAMENTE TERMINADA.	
			Mano de obra	33.88
			Maquinaria	10.45
			Materiales	210.52
			Coste Indirecto 6%	15.29
			TOTAL PARTIDA	270.14
046	308.0151N1	ud	ENSAYO SÓNICO EN PILOTES	
			Materiales	76.75
			Coste Indirecto 6%	4.61
			TOTAL PARTIDA	81.36
047	320.0010	m³	EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.	
			Mano de obra	0.08
			Maquinaria	2.28
			Coste Indirecto 6%	0.14
			TOTAL PARTIDA	2.50
048	320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	
			Mano de obra	0.22
			Maquinaria	2.66
			Materiales	1.14
			Coste Indirecto 6%	0.24
			TOTAL PARTIDA	4.25

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

049 320.0090 m³ EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLOSIVOS, CONSIDERÁNDOSE TRABAJO DE RETALUZADO CUANDO LA ALTURA ENTRE EL PIE DEL TALUD, EN EL MOMENTO DE EFECTUAR EL TRABAJO, Y LA CORONACIÓN DEL MISMO SEA IGUAL O SUPERIOR A 8 M I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Mano de obra	0.18
Maquinaria	2.59
Coste Indirecto 6%	0.17
TOTAL PARTIDA	2.94

050 320.0091N1 m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME

Mano de obra	8.28
Maquinaria	44.38
Materiales	4.03
Coste Indirecto 6%	3.40
TOTAL PARTIDA	60.08

051 320.0092N1 m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME

Mano de obra	16.54
Maquinaria	88.77
Materiales	8.06
Coste Indirecto 6%	6.80
TOTAL PARTIDA	120.16

052 321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

Mano de obra	0.39
Maquinaria	4.29
Materiales	1.64
Coste Indirecto 6%	0.38
TOTAL PARTIDA	6.70

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

053 322.0010 m² PRECORTE PARA TALUDES EN ROCA PARA CUALQUIER INCLINACIÓN DEL TALUD (INCLUSO ESCALONADO EN CIMIENTOS EN ROCA) CON TALADROS I/ EJECUCIÓN DE TALADROS, REGULARIZACIÓN O SANEO TRAS REALIZAR EL PRECORTE.

Mano de obra	2.64
Maquinaria	2.17
Materiales	5.29
Coste Indirecto 6%	0.61
TOTAL PARTIDA	10.71

054 330.0020 m³ TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO.

(EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).

Mano de obra	0.07
Maquinaria	0.82
Materiales	0.15
Coste Indirecto 6%	0.06
TOTAL PARTIDA	1.10

055 330.0040N1 m³ SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVACIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.

Mano de obra	1.73
Maquinaria	1.27
Materiales	0.02
Coste Indirecto 6%	0.18
TOTAL PARTIDA	3.20

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

056 330.0050 m³ SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE I/ CANON DE CANTERA, EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.

Mano de obra	0.30
Maquinaria	3.91
Materiales	2.15
Coste Indirecto 6%	0.38
TOTAL PARTIDA	6.74

057 332.0010 m3 RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN.

Mano de obra	0.93
Maquinaria	7.93
Materiales	7.63
Coste Indirecto 6%	0.99
TOTAL PARTIDA	17.48

058 332.0011N1 m3 RELLENO ESPECIAL EN CUÑA DE TRANSICIÓN I/ CARGA Y TRANSPORTE DE MATERIAL

Mano de obra	0.93
Maquinaria	7.93
Materiales	2.29
Coste Indirecto 6%	0.67
TOTAL PARTIDA	11.82

059 332.0040 m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

Mano de obra	1.06
Maquinaria	2.06
Materiales	0.15
Coste Indirecto 6%	0.20
TOTAL PARTIDA	3.47

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

060 332.0060 m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).

Mano de obra	0.15
Maquinaria	2.77
Materiales	3.40
Coste Indirecto 6%	0.38
TOTAL PARTIDA	6.70

061 332.1000 m³ RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANULAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 MM DE GRANULOMETRÍA Y FIELTRO DE POLIPROPILENO CON UN PESO MÍNIMO DE 80G/M2 PARA TODAS LAS PERMEABILIDADES

Mano de obra	5.22
Maquinaria	2.45
Materiales	13.31
Coste Indirecto 6%	1.26
TOTAL PARTIDA	22.24

062 342.0040 m² PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 MM Y DIÁMETRO HASTA 2,4 MM, ANCLADA CON BARRAS DE ACERO CORRUGADAS Y SUJETA CON PIQUETAS DE ANCLAJE.

Mano de obra	4.68
Maquinaria	2.00
Materiales	5.45
Coste Indirecto 6%	0.73
TOTAL PARTIDA	12.86

063 342.0200 m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.

Mano de obra	4.56
Maquinaria	13.09
Materiales	8.02
Coste Indirecto 6%	1.54
TOTAL PARTIDA	27.21

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
064	342.0230	m	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.	
			Mano de obra	9.13
			Maquinaria	19.13
			Materiales	13.90
			Coste Indirecto 6%	2.53
			TOTAL PARTIDA	44.69
065	400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN	
			Mano de obra	24.21
			Materiales	75.93
			Coste Indirecto 6%	6.01
			TOTAL PARTIDA	106.15
066	400.0020N1	m	CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS	
			Mano de obra	7.93
			Maquinaria	2.15
			Materiales	21.68
			Coste Indirecto 6%	1.91
			TOTAL PARTIDA	33.66
067	400.0020N2	m³	HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS.	
			Mano de obra	29.41
			Materiales	79.30
			Coste Indirecto 6%	6.52
			TOTAL PARTIDA	115.23

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
068	400.0021N1	m	CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-2, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS	
			Mano de obra	11.51
			Maquinaria	3.66
			Materiales	31.53
			Coste Indirecto 6%	2.80
			TOTAL PARTIDA	49.49
069	410.0021N1	ud	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.	
			Mano de obra	45.15
			Maquinaria	37.14
			Materiales	207.38
			Coste Indirecto 6%	17.38
			TOTAL PARTIDA	307.06
070	410.0022N1	ud	ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 1,20 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.	
			Mano de obra	70.72
			Maquinaria	53.57
			Materiales	323.91
			Coste Indirecto 6%	26.89
			TOTAL PARTIDA	475.07
071	410.0023N1	ud	ARQUETA SUMIDERO CON UNAS DIMENSIONES DE 40 X 40 Y 50 CM DE PROFUNDIDAD, CON REJILLA Y CERCO DE FUNDICIÓN, REALIZADA CON BLOQUE HUECO DE HORMIGÓN VIBRADO DE 9 X 25 X 50 CM, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON ESQUINAS A MEDIA CAÑA, INCLUSO EXCAVACIÓN Y TRANSPORTE DE ESCOMBROS A VERTEDERO AUTORIZADO. TOTALMENTE EJECUTADA Y ACABADA SEGÚN NORMAS DE LA DIRECCIÓN FACULTATIVA.	
			Mano de obra	12.91
			Maquinaria	32.21
			Materiales	43.37
			Coste Indirecto 6%	5.31

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	93.79
072	410.0024N1	ud	ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.	
			Mano de obra.....	91.15
			Maquinaria.....	123.77
			Materiales.....	402.68
			Coste Indirecto 6%.....	37.06
			TOTAL PARTIDA.....	654.65
073	410.0026N1	ud	ARQUETA SIFÓNICA DE HORMIGÓN ARMADO DE 1,20 X 1,45 X 1,45 M DE DIMENSIONES INTERIORES, I/ TAPA, TOTALMENTE COLOCADA EN TÚNEL.	
			Mano de obra.....	150.82
			Maquinaria.....	50.28
			Materiales.....	334.78
			Coste Indirecto 6%.....	32.15
			TOTAL PARTIDA.....	568.03
074	410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.	
			Mano de obra.....	124.04
			Maquinaria.....	72.55
			Materiales.....	488.75
			Coste Indirecto 6%.....	41.12
			TOTAL PARTIDA.....	726.46
075	411.0010N1	ud	SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.	
			Mano de obra.....	43.31
			Materiales.....	44.00
			Coste Indirecto 6%.....	5.24
			TOTAL PARTIDA.....	92.55
076	411.0011N1	ud	SUMIDERO, CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.	
			Mano de obra.....	48.89
			Maquinaria.....	4.89
			Materiales.....	45.56
			Coste Indirecto 6%.....	5.96
			TOTAL PARTIDA.....	105.30

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
077	411.0011N2	ud	SUMIDERO SIFÓNICO CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.	
			Mano de obra.....	48.89
			Maquinaria.....	4.89
			Materiales.....	12.77
			Coste Indirecto 6%.....	3.99
			TOTAL PARTIDA.....	70.54
078	411.0012N1	ud	REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.	
			Mano de obra.....	2.18
			Materiales.....	300.00
			Coste Indirecto 6%.....	18.13
			TOTAL PARTIDA.....	320.31
079	411.0013N1	m	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS	
			Mano de obra.....	6.53
			Maquinaria.....	26.59
			Materiales.....	27.63
			Coste Indirecto 6%.....	3.65
			TOTAL PARTIDA.....	64.40
080	411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO	
			Mano de obra.....	0.86
			Materiales.....	9.09
			Coste Indirecto 6%.....	0.60
			TOTAL PARTIDA.....	10.55
081	413.0010	m	CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.	
			Mano de obra.....	9.65
			Maquinaria.....	1.39
			Materiales.....	38.70
			Coste Indirecto 6%.....	2.98
			TOTAL PARTIDA.....	52.72
082	413.0010N1	m	CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.	

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra	9.85
			Maquinaria	3.41
			Materiales	29.97
			Coste Indirecto 6%	2.59
			TOTAL PARTIDA	45.81
083	413.0010N4	m	CAZ PREFABRICADO DE DIÁMETRO EQUIVALENTE 400 MM PARA TÚNEL, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, I/ PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.	
			Mano de obra	5.44
			Maquinaria	1.17
			Materiales	88.24
			Coste Indirecto 6%	5.69
			TOTAL PARTIDA	100.54
084	413.0012N1	ud	TAPA DE FUNDICIÓN, C-250, DE 700 MM DE DIÁMETRO, I/ SUMINISTRO Y COLOCACIÓN.	
			Mano de obra	0.39
			Maquinaria	11.62
			Materiales	43.61
			Coste Indirecto 6%	3.34
			TOTAL PARTIDA	58.96
085	413.0030	m	DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD	
			Mano de obra	6.15
			Maquinaria	17.94
			Materiales	3.15
			Coste Indirecto 6%	1.63
			TOTAL PARTIDA	28.87
086	414.0020	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 300MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	
			Mano de obra	15.90
			Maquinaria	9.10
			Materiales	28.54
			Coste Indirecto 6%	3.21
			TOTAL PARTIDA	56.75

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
087	414.0030	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	
			Mano de obra	15.90
			Maquinaria	9.10
			Materiales	36.39
			Coste Indirecto 6%	3.68
			TOTAL PARTIDA	65.07
088	414.0040	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	
			Mano de obra	15.90
			Maquinaria	9.10
			Materiales	37.05
			Coste Indirecto 6%	3.72
			TOTAL PARTIDA	65.77
089	414.0060	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	
			Mano de obra	18.66
			Maquinaria	10.75
			Materiales	47.91
			Coste Indirecto 6%	4.64
			TOTAL PARTIDA	81.96
090	414.0090	m	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	
			Mano de obra	18.66
			Maquinaria	10.75
			Materiales	63.74
			Coste Indirecto 6%	5.59
			TOTAL PARTIDA	98.74

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

091 414.0110 m TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 800MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

Mano de obra	22.25
Maquinaria	12.41
Materiales	98.13
Coste Indirecto 6%	7.97
TOTAL PARTIDA	140.76

092 414.0120 m COLECTOR ENTERRADO, FORMADO POR TUBO DE HORMIGÓN ARMADO PARA SANEAMIENTO SIN PRESIÓN, FABRICADO POR COMPRESIÓN RADIAL, CLASE 135, CARGA DE ROTURA 135 KN/M², DE 1000 MM DE DIÁMETRO NOMINAL (INTERIOR), UNIÓN POR ENCHUFE Y CAMPANA CON JUNTA ELÁSTICA. EL PRECIO INCLUYE LOS EQUIPOS Y LA MAQUINARIA NECESARIOS PARA EL DESPLAZAMIENTO Y LA DISPOSICIÓN EN OBRA DE LOS ELEMENTOS, PERO NO INCLUYE LA EXCAVACIÓN NI EL RELLENO PRINCIPAL.

Mano de obra	45.04
Maquinaria	57.89
Materiales	111.44
Coste Indirecto 6%	12.86
TOTAL PARTIDA	227.23

093 414.0210 m TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

Mano de obra	27.98
Maquinaria	18.06
Materiales	305.44
Coste Indirecto 6%	21.09
TOTAL PARTIDA	372.57

094 414.0240 m TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN

Mano de obra	27.98
Maquinaria	18.06
Materiales	434.97
Coste Indirecto 6%	28.86
TOTAL PARTIDA	509.87

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

095 415.0008N1 ud BOQUILLA Y ALETAS PARA TUBO DE 30 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

Mano de obra	514.81
Maquinaria	126.63
Materiales	326.37
Coste Indirecto 6%	58.07
TOTAL PARTIDA	1,025.88

096 415.0010N1 ud BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

Mano de obra	534.02
Maquinaria	139.59
Materiales	370.44
Coste Indirecto 6%	62.64
TOTAL PARTIDA	1,106.69

097 415.0015N1 ud BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

Mano de obra	552.53
Maquinaria	153.14
Materiales	400.72
Coste Indirecto 6%	66.38
TOTAL PARTIDA	1,172.77

098 415.0020N1 ud BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

Mano de obra	569.97
Maquinaria	166.18
Materiales	440.13
Coste Indirecto 6%	70.58
TOTAL PARTIDA	1,246.85

099 415.0030N1 ud BOQUILLA Y ALETAS PARA TUBO DE 80 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.

Mano de obra	608.93
Maquinaria	195.56
Materiales	511.77
Coste Indirecto 6%	78.98
TOTAL PARTIDA	1,395.23

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
100	417.0010	m	TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	
			Mano de obra	2.76
			Maquinaria	0.82
			Materiales	4.55
			Coste Indirecto 6%	0.49
			TOTAL PARTIDA	8.62
101	417.0030	m	TUBO DE PVC DE DIÁMETRO 160MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	
			Mano de obra	2.76
			Maquinaria	0.82
			Materiales	10.91
			Coste Indirecto 6%	0.87
			TOTAL PARTIDA	15.36
102	417.0031N1	m	TUBO DE PVC DE DIÁMETRO 100MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	
			Mano de obra	2.61
			Maquinaria	0.73
			Materiales	7.38
			Coste Indirecto 6%	0.64
			TOTAL PARTIDA	11.36
103	417.0040	m	TUBO DE PVC DE DIÁMETRO 250MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	
			Mano de obra	2.76
			Maquinaria	0.82
			Materiales	14.69
			Coste Indirecto 6%	1.10
			TOTAL PARTIDA	19.37

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
104	418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO	
			Mano de obra	2.08
			Materiales	4.65
			Coste Indirecto 6%	0.40
			TOTAL PARTIDA	7.13
105	424.0020	m	TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.	
			Mano de obra	2.76
			Maquinaria	0.82
			Materiales	11.71
			Coste Indirecto 6%	0.92
			TOTAL PARTIDA	16.21
106	424.0028N1	m	TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.	
			Mano de obra	2.61
			Maquinaria	0.73
			Materiales	14.37
			Coste Indirecto 6%	1.06
			TOTAL PARTIDA	18.77
107	430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES	
			Mano de obra	2.34
			Maquinaria	1.98
			Materiales	19.31
			Coste Indirecto 6%	1.42
			TOTAL PARTIDA	25.05
108	430.0020	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES	
			Mano de obra	2.34

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Maquinaria	1.98
			Materiales	30.08
			Coste Indirecto 6%	2.06
			TOTAL PARTIDA	36.46
109	510.0010	m³	ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.	
			Mano de obra	0.76
			Maquinaria	7.88
			Materiales	16.62
			Coste Indirecto 6%	1.52
			TOTAL PARTIDA	26.78
110	512.0110	m³	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.	
			Mano de obra	0.37
			Maquinaria	4.56
			Materiales	0.29
			Coste Indirecto 6%	0.31
			TOTAL PARTIDA	5.53
111	513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA	
			Mano de obra	1.69
			Maquinaria	12.21
			Materiales	1.62
			Coste Indirecto 6%	0.93
			TOTAL PARTIDA	16.45
112	530.0010	t	ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.	
			Mano de obra	2.12
			Maquinaria	7.39
			Materiales	7.74
			Coste Indirecto 6%	1.04
			TOTAL PARTIDA	18.29
113	530.0010N1	t	ÁRIDO DE CANTERA PARA RIEGOS CON GRAVILLA, I/ LA EXTENSIÓN, TOTALMENTE TERMINADO.	
			Mano de obra	2.08
			Maquinaria	4.93

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	10.33
			Coste Indirecto 6%	1.04
			TOTAL PARTIDA	18.38
114	530.0020	t	EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.	
			Mano de obra	22.65
			Maquinaria	34.28
			Materiales	406.62
			Coste Indirecto 6%	27.81
			TOTAL PARTIDA	491.36
115	531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.	
			Mano de obra	45.29
			Maquinaria	68.54
			Materiales	475.00
			Coste Indirecto 6%	35.33
			TOTAL PARTIDA	624.16
116	531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.	
			Mano de obra	50.32
			Maquinaria	76.17
			Materiales	493.73
			Coste Indirecto 6%	37.21
			TOTAL PARTIDA	657.43
117	533.0020	m²	DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.	
			Mano de obra	0.30
			Maquinaria	0.96
			Materiales	0.81
			Coste Indirecto 6%	0.12
			TOTAL PARTIDA	2.19
118	542.0010	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL, TOTALMENTE EXTENDIDA Y COMPACTADA.	
			Mano de obra	2.46
			Maquinaria	15.62
			Materiales	10.80
			Coste Indirecto 6%	1.73
			TOTAL PARTIDA	30.61

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
119	542.0050	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.	
			Mano de obra	2.46
			Maquinaria	15.62
			Materiales	9.61
			Coste Indirecto 6%	1.66
			TOTAL PARTIDA	29.35
120	542.0100	t	MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.	
			Mano de obra	2.46
			Maquinaria	15.62
			Materiales	9.64
			Coste Indirecto 6%	1.66
			TOTAL PARTIDA	29.38
121	542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.	
			Materiales	56.47
			Coste Indirecto 6%	3.39
			TOTAL PARTIDA	59.86
122	543.0020	m²	MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.	
			Mano de obra	0.18
			Maquinaria	1.13
			Materiales	1.22
			Coste Indirecto 6%	0.15
			TOTAL PARTIDA	2.68
123	550.0010	m³	PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-45 TOTALMENTE TERMINADO, P.P. ARMADURA, JUNTAS Y CURADO CON PRODUCTO FILMÓGENO.	
			Mano de obra	12.40
			Maquinaria	45.62
			Materiales	174.57
			Coste Indirecto 6%	13.96
			TOTAL PARTIDA	246.55
124	551.0010	m³	HORMIGÓN MAGRO VIBRADO EN BASE DE FIRME, COMPLETAMENTE TERMINADO I/ CURADO	
			Mano de obra	3.83
			Maquinaria	15.91

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	63.75
			Coste Indirecto 6%	5.01
			TOTAL PARTIDA	88.50
125	551.0020N1	m²	ACABADO FINAL (DENUDADO) DE PAVIMENTO CONSISTENTE EN APLICACIÓN DE RETARDADOR DE FRAGUADO Y LÁMINA DE PLÁSTICO EN SUPERFICIE DEL HORMIGÓN DE PAVIMENTO, PARA POSTERIOR BARRIDO Y LAVADO CON AGUA Y EXTENSIÓN DE CAPA FILMÓGENA DE CURADO	
			Maquinaria	0.08
			Materiales	1.77
			Coste Indirecto 6%	0.11
			TOTAL PARTIDA	1.96
126	570.0050N1	m	SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.	
			Mano de obra	6.39
			Maquinaria	0.44
			Materiales	7.47
			Coste Indirecto 6%	0.86
			TOTAL PARTIDA	15.16
127	570.0051N1	m	SUMINISTRO Y COLOCACIÓN DE BORDILLO MONTABLE DE HORMIGÓN PREFABRICADO 22 X 20 CM TIPO II, SOBRE BASE DE HORMIGÓN HM-20, INCLUSO MORTERO DE ASIENTO Y REJUNTADO.	
			Mano de obra	6.39
			Maquinaria	0.44
			Materiales	7.97
			Coste Indirecto 6%	0.89
			TOTAL PARTIDA	15.69
128	571.0010N1	m²	PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.	
			Mano de obra	25.70
			Maquinaria	0.78
			Materiales	21.28
			Coste Indirecto 6%	2.87
			TOTAL PARTIDA	50.62

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
129	600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	
			Mano de obra	0.28
			Maquinaria	0.14
			Materiales	1.29
			Coste Indirecto 6%	0.10
			TOTAL PARTIDA	1.81
130	601.0010	kg	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.	
			Mano de obra	0.28
			Maquinaria	0.35
			Materiales	4.00
			Coste Indirecto 6%	0.28
			TOTAL PARTIDA	4.91
131	610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.	
			Mano de obra	1.70
			Maquinaria	3.10
			Materiales	57.92
			Coste Indirecto 6%	3.76
			TOTAL PARTIDA	66.48
132	610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	
			Mano de obra	6.07
			Maquinaria	0.36
			Materiales	47.07
			Coste Indirecto 6%	3.21
			TOTAL PARTIDA	56.71
133	610.0020	m³	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	
			Mano de obra	2.94
			Maquinaria	3.10
			Materiales	75.74
			Coste Indirecto 6%	4.91
			TOTAL PARTIDA	86.69

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
134	610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	
			Mano de obra	10.50
			Maquinaria	4.47
			Materiales	79.13
			Coste Indirecto 6%	5.65
			TOTAL PARTIDA	99.75
135	610.0050	m³	HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	
			Mano de obra	12.09
			Maquinaria	7.19
			Materiales	79.13
			Coste Indirecto 6%	5.90
			TOTAL PARTIDA	104.31
136	610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	
			Mano de obra	10.50
			Maquinaria	4.47
			Materiales	87.91
			Coste Indirecto 6%	6.17
			TOTAL PARTIDA	109.05
137	610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	
			Mano de obra	12.09
			Maquinaria	7.19
			Materiales	87.91
			Coste Indirecto 6%	6.43
			TOTAL PARTIDA	113.62
138	610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	
			Mano de obra	12.09
			Maquinaria	7.19
			Materiales	90.99
			Coste Indirecto 6%	6.62
			TOTAL PARTIDA	116.89
139	610.0130	m³	HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	
			Mano de obra	12.09
			Maquinaria	7.19
			Materiales	95.20
			Coste Indirecto 6%	6.87
			TOTAL PARTIDA	121.35

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
140	610.0150	m³	HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.	
			Mano de obra	18.25
			Maquinaria	21.19
			Materiales	95.20
			Coste Indirecto 6%	8.08
			TOTAL PARTIDA	142.72
141	614.0030	m	VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.	
			Mano de obra	13.20
			Maquinaria	41.90
			Materiales	1,326.80
			Coste Indirecto 6%	82.91
			TOTAL PARTIDA	1,464.81
142	617.0031N1	m	BARRERA DE SEGURIDAD DE HORMIGÓN PREFABRICADO, TIPO DB 80 AS (NEW JERSEY), INCLUYENDO SUMINISTRO, TRANSPORTE Y COLOCACIÓN, TOTALMENTE TERMINADA.	
			Mano de obra	6.05
			Maquinaria	5.59
			Materiales	51.43
			Coste Indirecto 6%	3.78
			TOTAL PARTIDA	66.85
143	617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).	
			Mano de obra	20.97
			Maquinaria	2.79
			Materiales	194.74
			Coste Indirecto 6%	13.11
			TOTAL PARTIDA	231.61
144	620.0020	kg	ACERO LAMINADO ESTRUCTURAL S275JR EN CHAPAS Y PERFILES LAMINADOS I/ P.P. DE DESPUNTES, CORTE, DOBLADO, SOLDADURAS, TRANSPORTE, POSICIONAMIENTO Y COLOCACIÓN EN OBRA, PROTECCIÓN ANTI-CORROSIÓN TOTALMENTE MONTADO.	
			Mano de obra	0.38
			Maquinaria	1.39
			Materiales	1.62

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%	0.20
			TOTAL PARTIDA	3.59
145	620.0041N1	kg	ACERO TIPO 1030S INOX. INCLUSO P.P. DE VAINAS, ANCLAJE, TESADO E INYECCIÓN DE MORTERO, TOTALMENTE EJECUTADO	
			Mano de obra	3.30
			Materiales	12.70
			Coste Indirecto 6%	0.96
			TOTAL PARTIDA	16.96
146	620.0043N1	kg	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.	
			Mano de obra	8.56
			Maquinaria	0.06
			Materiales	0.99
			Coste Indirecto 6%	0.58
			TOTAL PARTIDA	10.19
147	630.0020	m²	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.	
			Mano de obra	32.13
			Maquinaria	32.14
			Materiales	144.83
			Coste Indirecto 6%	12.55
			TOTAL PARTIDA	221.65
148	630.300M1	m²	LOSA DE GRANITO	
			Mano de obra	8.84
			Maquinaria	12.97
			Materiales	51.90
			Coste Indirecto 6%	4.42
			TOTAL PARTIDA	78.13
149	630.3010	m²	PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.	
			Mano de obra	10.24
			Maquinaria	19.45
			Materiales	51.37
			Coste Indirecto 6%	4.86
			TOTAL PARTIDA	85.92

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
150	658.0010	m³	ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.	
			Mano de obra	0.93
			Maquinaria	21.58
			Materiales	12.49
			Coste Indirecto 6%	2.10
			TOTAL PARTIDA	37.10
151	658.0020	m³	ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.	
			Mano de obra	1.87
			Maquinaria	25.91
			Materiales	12.99
			Coste Indirecto 6%	2.45
			TOTAL PARTIDA	43.22
152	658.0070N1	m³	RECUBRIMIENTO SUPERFICIAL DE ESCOLLERA COLOCADA CON BLOQUES DE 300 A 1000 KG (HUSO HMB 300/1000), CONFORME A UNE EN 13383-1.	
			Mano de obra	4.30
			Maquinaria	12.60
			Materiales	14.00
			Coste Indirecto 6%	1.85
			TOTAL PARTIDA	32.75
153	658.0080	m³	MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (USO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1 I/ RELLENO DEL TRASDÓS CON MATERIAL FILTRANTE.	
			Mano de obra	5.08
			Maquinaria	34.77
			Materiales	24.40
			Coste Indirecto 6%	3.86
			TOTAL PARTIDA	68.11
154	658.0080N1	m³	MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.	
			Mano de obra	4.55
			Maquinaria	22.73
			Materiales	14.00
			Coste Indirecto 6%	2.48
			TOTAL PARTIDA	43.76

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
155	658.0082N1	m³	MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO REGULARES (PARALELEPÍPEDOS) PROCEDENTE DE CANTERA. INCLUYE EL SUMINISTRO Y COLOCACIÓN DE LOS BLOQUES DE PIEDRA, EJECUCIÓN DE JUNTAS ENTRE BLOQUES Y TODOS AQUELLOS TRABAJOS Y MATERIALES NECESARIOS PARA SU COMPLETA TERMINACIÓN.	
			Mano de obra	5.32
			Maquinaria	22.61
			Materiales	31.67
			Coste Indirecto 6%	3.58
			TOTAL PARTIDA	63.18
156	660.0010	m²	ENCACHADO DE PIEDRA EJECUTADO MEDIANTE PIEDRA DE CANTERA PARA ENCACHADO , HORMIGÓN C20/25 Y MORTERO DE CEMENTO PORTLAND MCP-5 DE DOSIFICACIÓN 1:4 SIN INCLUIR ARMADURAS	
			Mano de obra	6.77
			Maquinaria	6.97
			Materiales	10.78
			Coste Indirecto 6%	1.47
			TOTAL PARTIDA	25.99
157	671.0030	m	PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.	
			Mano de obra	10.66
			Maquinaria	39.80
			Materiales	1.89
			Coste Indirecto 6%	3.14
			TOTAL PARTIDA	55.49
158	671.1001N1	ud	TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES	
			Mano de obra	956.90
			Maquinaria	2,349.02
			Coste Indirecto 6%	198.36
			TOTAL PARTIDA	3,504.28
159	675.0020	ud	BARRA Ø 20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI I/ PERFORACIÓN, COLOCACIÓN E INYECCIÓN DE RESINA EPOXI, SEGÚN DEFINICIÓN EN PLANOS (LONGITUD < 0,70 M).	
			Mano de obra	7.72
			Maquinaria	4.53
			Materiales	5.72

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%.....	1.08
			TOTAL PARTIDA.....	19.05
160	675.1012N1	m	ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	
			Mano de obra.....	6.81
			Maquinaria.....	2.14
			Materiales.....	83.59
			Coste Indirecto 6%.....	5.55
			TOTAL PARTIDA.....	98.09
161	675.1013N1	m	ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	
			Mano de obra.....	6.81
			Maquinaria.....	2.26
			Materiales.....	89.82
			Coste Indirecto 6%.....	5.93
			TOTAL PARTIDA.....	104.82
162	675.1014N1	m	ANCLAJE TIPO 1 (5 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	
			Mano de obra.....	6.81
			Maquinaria.....	2.26
			Materiales.....	79.72
			Coste Indirecto 6%.....	5.33
			TOTAL PARTIDA.....	94.12
163	675.1120N1	m	ANCLAJE TIPO 4B (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	
			Mano de obra.....	35.70
			Maquinaria.....	12.55
			Materiales.....	120.15
			Coste Indirecto 6%.....	10.10
			TOTAL PARTIDA.....	178.50
164	675.1121N2	m	ANCLAJE TIPO 4B (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	
			Mano de obra.....	27.09
			Maquinaria.....	8.68
			Materiales.....	40.74

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%.....	4.59
			TOTAL PARTIDA.....	81.10
165	675.1250	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.	
			Mano de obra.....	79.45
			Materiales.....	20.55
			Coste Indirecto 6%.....	6.00
			TOTAL PARTIDA.....	106.00
166	675.1260	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.	
			Mano de obra.....	111.91
			Maquinaria.....	5.26
			Materiales.....	20.55
			Coste Indirecto 6%.....	8.26
			TOTAL PARTIDA.....	145.98
167	680.0010	m²	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	
			Mano de obra.....	14.16
			Maquinaria.....	8.86
			Materiales.....	3.81
			Coste Indirecto 6%.....	1.61
			TOTAL PARTIDA.....	28.44
168	680.0030	m²	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	
			Mano de obra.....	14.16
			Maquinaria.....	8.86
			Materiales.....	8.97
			Coste Indirecto 6%.....	1.92
			TOTAL PARTIDA.....	33.91

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
169	680.0040	m²	ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	
			Mano de obra	20.15
			Maquinaria	13.29
			Materiales	8.97
			Coste Indirecto 6%	2.54
			TOTAL PARTIDA	44.95
170	680.1000	ud	TRANSPORTE, MONTAJE Y RETIRADA DEL EQUIPO Y MEDIOS AUXILIARES PARA EJECUCIÓN DE PILOTES DE DIÁMETRO HASTA 1200 MM.	
			Maquinaria	7,547.17
			Coste Indirecto 6%	452.83
			TOTAL PARTIDA	8,000.00
171	681.0010	m³	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.	
			Mano de obra	4.75
			Maquinaria	1.02
			Materiales	5.75
			Coste Indirecto 6%	0.69
			TOTAL PARTIDA	12.21
172	682.0010	m³	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.	
			Mano de obra	6.69
			Maquinaria	3.01
			Materiales	65.00
			Coste Indirecto 6%	4.48
			TOTAL PARTIDA	79.18
173	690.0010N1	m2	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.	
			Mano de obra	8.17
			Materiales	2.22
			Coste Indirecto 6%	0.62
			TOTAL PARTIDA	11.01

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
174	690.0021	m²	IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIEZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.	
			Mano de obra	4.23
			Maquinaria	2.28
			Materiales	15.81
			Coste Indirecto 6%	1.34
			TOTAL PARTIDA	23.66
175	690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.	
			Mano de obra	2.30
			Maquinaria	0.03
			Materiales	5.07
			Coste Indirecto 6%	0.44
			TOTAL PARTIDA	7.84
176	690.0050	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIONES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFORADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.	
			Mano de obra	12.57
			Materiales	14.95
			Coste Indirecto 6%	1.65
			TOTAL PARTIDA	29.17
177	690.0070	m²	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.	
			Mano de obra	1.78
			Materiales	0.41
			Coste Indirecto 6%	0.13
			TOTAL PARTIDA	2.32

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
178	691.0010N1	m	JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.	
			Mano de obra	1.98
			Materiales	9.85
			Coste Indirecto 6%	0.71
			TOTAL PARTIDA	12.54
179	692.0100	dm³	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.	
			Mano de obra	7.20
			Maquinaria	2.92
			Materiales	17.02
			Coste Indirecto 6%	1.63
			TOTAL PARTIDA	28.77
180	694.0010	m	JUNTA DE DILATACIÓN PARA TABLERO DE 50 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.	
			Mano de obra	95.02
			Maquinaria	36.81
			Materiales	138.28
			Coste Indirecto 6%	16.21
			TOTAL PARTIDA	286.32
181	694.0050	m	JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.	
			Mano de obra	212.69
			Maquinaria	46.57
			Materiales	410.79
			Coste Indirecto 6%	40.20
			TOTAL PARTIDA	710.25
182	695.0010	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS	
			Materiales	1,716.37

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%	102.98
			TOTAL PARTIDA	1,819.35
183	695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS	
			Materiales	3,136.53
			Coste Indirecto 6%	188.19
			TOTAL PARTIDA	3,324.72
184	695.0070	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO	
			Materiales	655.82
			Coste Indirecto 6%	39.35
			TOTAL PARTIDA	695.17
185	695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M	
			Materiales	3,333.08
			Coste Indirecto 6%	199.98
			TOTAL PARTIDA	3,533.06
186	695.0110N1	Ud	AUSCULTACIÓN E INFORME DE MEDICIONES OBTENIDAS	
			Materiales	1,707.27
			Coste Indirecto 6%	102.44
			TOTAL PARTIDA	1,809.71
187	695.0120	día	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA	
			Materiales	439.12
			Coste Indirecto 6%	26.35
			TOTAL PARTIDA	465.47
188	696.0010N1	m²	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.	
			Mano de obra	1.00
			Materiales	9.62
			Coste Indirecto 6%	0.64
			TOTAL PARTIDA	11.26

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
189	696.0120N1	m²	PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.	
			Mano de obra	0.82
			Materiales	0.33
			Coste Indirecto 6%	0.07
			TOTAL PARTIDA	1.22
190	700.0010	m	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 10 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	
			Mano de obra	0.04
			Maquinaria	0.14
			Materiales	0.33
			Coste Indirecto 6%	0.03
			TOTAL PARTIDA	0.54
191	700.0020	m	MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	
			Mano de obra	0.04
			Maquinaria	0.14
			Materiales	0.49
			Coste Indirecto 6%	0.04
			TOTAL PARTIDA	0.71
192	700.0035N1	m	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	
			Mano de obra	0.04
			Maquinaria	0.14
			Materiales	0.98
			Coste Indirecto 6%	0.07
			TOTAL PARTIDA	1.23
193	700.0035N2	m	MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	
			Mano de obra	0.04
			Maquinaria	0.14
			Materiales	1.30
			Coste Indirecto 6%	0.09
			TOTAL PARTIDA	1.57

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
194	700.0100	m	MARCA VIAL TIPO II (RW) DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, DE 10 CM DE ANCHO I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE, PREMARCAJE Y ELIMINACIÓN POSTERIOR (MEDIDA LA LONGITUD REALMENTE PINTADA).	
			Mano de obra	0.04
			Maquinaria	0.14
			Materiales	0.17
			Coste Indirecto 6%	0.02
			TOTAL PARTIDA	0.37
195	700.0130N1	m²	MARCA VIAL DE TIPO II (RW), DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, EN SÍMBOLOS Y CEBREADOS I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA SUPERFICIE REALMENTE PINTADA).	
			Mano de obra	2.15
			Maquinaria	3.83
			Materiales	1.47
			Coste Indirecto 6%	0.45
			TOTAL PARTIDA	7.90
196	700.0145N1	m²	MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.	
			Mano de obra	4.30
			Maquinaria	4.97
			Materiales	2.90
			Coste Indirecto 6%	0.73
			TOTAL PARTIDA	12.90
197	701.0010	ud	SEÑAL TRIANGULAR DE 175 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	317.65
			Coste Indirecto 6%	21.16
			TOTAL PARTIDA	373.79
198	701.0030N1	ud	SEÑAL TRIANGULAR REFLECTANTE, DE LADO 135 CM, FONDO AMARILLO (PARA DESVÍOS DE OBRA) CON BASE AUTOPORTANTE, INCLUSO COLOCACIÓN, LASTRADO Y RETIRADA FINAL.	
			Mano de obra	30.36
			Maquinaria	2.90

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	125.10
			Coste Indirecto 6%	9.50
			TOTAL PARTIDA	167.86
199	701.0035N1	ud	POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE LA PLACA DE LA SEÑAL	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	93.58
			Coste Indirecto 6%	7.71
			TOTAL PARTIDA	136.27
200	701.0040	ud	SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	186.41
			Coste Indirecto 6%	13.28
			TOTAL PARTIDA	234.67
201	701.0050	ud	SEÑAL CIRCULAR DE 120 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	295.21
			Coste Indirecto 6%	19.81
			TOTAL PARTIDA	350.00
202	701.0061N1	ud	SEÑAL CIRCULAR REFLECTANTE DE 120 CM DE DIÁMETRO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	
			Mano de obra	60.71
			Maquinaria	2.90
			Materiales	140.70
			Coste Indirecto 6%	12.26
			TOTAL PARTIDA	216.57

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
203	701.0080	ud	SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	170.04
			Coste Indirecto 6%	12.30
			TOTAL PARTIDA	217.32
204	701.0110	ud	SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 CM, RETRORREFLACTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	182.29
			Coste Indirecto 6%	13.04
			TOTAL PARTIDA	230.31
205	701.0110N1	ud	SEÑAL REFLEXIVA OCTOGONAL DE DOBLE APOTEMA DE 90CM, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	
			Mano de obra	60.71
			Maquinaria	2.90
			Materiales	114.66
			Coste Indirecto 6%	10.70
			TOTAL PARTIDA	188.97
206	701.0120	ud	SEÑAL CUADRADA DE 120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	25.14
			Maquinaria	9.84
			Materiales	368.35
			Coste Indirecto 6%	24.20
			TOTAL PARTIDA	427.53
207	701.0130N1	ud	SEÑAL CUADRADA REFLECTANTE DE 120 CM DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	
			Mano de obra	60.71
			Maquinaria	2.90
			Materiales	203.56
			Coste Indirecto 6%	16.03

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	283.20
208	701.0180	ud	SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	25.14
			Maquinaria.....	9.84
			Materiales.....	331.08
			Coste Indirecto 6%.....	21.96
			TOTAL PARTIDA.....	388.02
209	701.0190N1	ud	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 1,35 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	
			Mano de obra.....	60.71
			Maquinaria.....	2.90
			Materiales.....	116.60
			Coste Indirecto 6%.....	10.81
			TOTAL PARTIDA.....	191.02
210	701.0195N1	ud	SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 0,30 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.	
			Mano de obra.....	60.71
			Maquinaria.....	2.90
			Materiales.....	97.92
			Coste Indirecto 6%.....	9.69
			TOTAL PARTIDA.....	171.22
211	701.0200	ud	SEÑAL RECTANGULAR DE 60X120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	25.14
			Maquinaria.....	9.84
			Materiales.....	231.18
			Coste Indirecto 6%.....	15.97
			TOTAL PARTIDA.....	282.13
212	701.0200N2	ud	SEÑAL RECTANGULAR DE 40 X 95 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTES GALVANIZADOS, FIJADOS A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	35.85
			Maquinaria.....	6.16

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales.....	114.94
			Coste Indirecto 6%.....	9.42
			TOTAL PARTIDA.....	166.37
213	701.0220	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	30.39
			Maquinaria.....	15.14
			Materiales.....	350.36
			Coste Indirecto 6%.....	23.75
			TOTAL PARTIDA.....	419.64
214	701.0225N1	ud	POSTES GALVANIZADOS PARA CARTEL TIPO FLECHA, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE EL CARTEL DEL CHAPA	
			Mano de obra.....	48.27
			Maquinaria.....	15.14
			Materiales.....	186.90
			Coste Indirecto 6%.....	15.02
			TOTAL PARTIDA.....	265.33
215	701.0230	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA2, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	30.39
			Maquinaria.....	15.14
			Materiales.....	328.54
			Coste Indirecto 6%.....	22.44
			TOTAL PARTIDA.....	396.51
216	701.0240	m²	CARTEL DE CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE DE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra.....	30.39
			Maquinaria.....	15.14
			Materiales.....	350.36
			Coste Indirecto 6%.....	23.75
			TOTAL PARTIDA.....	419.64
217	701.0260	m²	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA3 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.	

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra	30.39
			Maquinaria	15.14
			Materiales	351.86
			Coste Indirecto 6%	23.84
			TOTAL PARTIDA	421.23
218	701.0270	m²	PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	30.39
			Maquinaria	15.14
			Materiales	329.95
			Coste Indirecto 6%	22.53
			TOTAL PARTIDA	398.01
219	701.0280	m²	PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO RETRORREFLECTANTE DE CLASE RA3, COLOCADO EN PÓRTICOS O BANDEROLAS I/ TRANSPORTE A LUGAR DE EMPLEO (SIN INCLUIR PÓRTICO O BANDEROLA).	
			Mano de obra	31.60
			Maquinaria	45.42
			Materiales	199.84
			Coste Indirecto 6%	16.61
			TOTAL PARTIDA	293.47
220	701.0283N1	m²	PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.	
			Mano de obra	23.90
			Maquinaria	15.66
			Materiales	31.76
			Coste Indirecto 6%	4.28
			TOTAL PARTIDA	75.60
221	701.0310	ud	BANDEROLA DE ACERO GALVANIZADO DE HASTA 7,00 M DE BRAZO Y/O HASTA 30 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADA (SIN INCLUIR CARTEL).	
			Mano de obra	359.91
			Maquinaria	818.35
			Materiales	12,953.46
			Coste Indirecto 6%	847.90
			TOTAL PARTIDA	14,979.62

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
222	701.0340	ud	PÓRTICO DE ACERO GALVANIZADO DE HASTA 16,00 M DE LUZ Y/O HASTA 40 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).	
			Mano de obra	508.27
			Maquinaria	1,343.94
			Materiales	26,686.39
			Coste Indirecto 6%	1,712.32
			TOTAL PARTIDA	30,250.92
223	701.0350	ud	PÓRTICO DE ACERO GALVANIZADO DE HASTA 17,00 M DE LUZ Y/O HASTA 60 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).	
			Mano de obra	508.27
			Maquinaria	1,343.94
			Materiales	27,551.65
			Coste Indirecto 6%	1,764.23
			TOTAL PARTIDA	31,168.09
224	701.0410	ud	HITO KILOMÉTRICO S-570 DE 60X60 CM DE LADO, CON MATERIAL RETRORREFLECTANTE DE CLASE RA3 I/ POSTE, TORNILLERÍA Y CIMENTACIÓN, TOTALMENTE COLOCADO.	
			Mano de obra	18.82
			Maquinaria	6.16
			Materiales	105.91
			Coste Indirecto 6%	7.85
			TOTAL PARTIDA	138.74
225	702.0020	ud	CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS.	
			Mano de obra	1.46
			Materiales	5.43
			Coste Indirecto 6%	0.41
			TOTAL PARTIDA	7.30
226	703.0010	ud	BALIZA CILÍNDRICA CH-75 CON MATERIAL REFLECTANTE CLASE RA2, TOTALMENTE COLOCADA.	
			Mano de obra	10.42
			Materiales	36.80
			Coste Indirecto 6%	2.83
			TOTAL PARTIDA	50.05

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
227	703.0020	ud	HITO DE VÉRTICE N-120 CON MATERIAL RETRORREFLECTANTE DE CLASE RA2, LASTRADO CON GRAVA O GRAVILLA, TOTALMENTE COLOCADO.	
			Mano de obra	20.84
			Materiales	336.11
			Coste Indirecto 6%	21.42
			TOTAL PARTIDA	378.37
228	703.0050	ud	HITO DE ARISTA (DE 155 CM) TIPO II (PARA AUTOPISTA O AUTOVÍA), DE RETRORREFLECTANCIA CLASE RA3, TOTALMENTE COLOCADO, INCLUIDA CIMENTACIÓN.	
			Mano de obra	4.17
			Materiales	9.10
			Coste Indirecto 6%	0.80
			TOTAL PARTIDA	14.07
229	703.0080	ud	PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLECTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	20.84
			Maquinaria	6.98
			Materiales	205.30
			Coste Indirecto 6%	13.99
			TOTAL PARTIDA	247.11
230	703.0110	ud	PANEL DIRECCIONAL DE 80X40 CM Y RETRORREFLECTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	
			Mano de obra	20.84
			Maquinaria	6.98
			Materiales	100.65
			Coste Indirecto 6%	7.71
			TOTAL PARTIDA	136.18
231	703.0150N1	ud	BALIZA LUMINOSA DE BRILLO INTERMITENTE TIPO TL-2 CON CÉLULA FOTOELÉCTRICA DE ACTIVACIÓN, BATERÍA DE ALIMENTACIÓN, INCLUSO INSTALACIÓN Y RETIRADA FINAL.	
			Mano de obra	19.58
			Materiales	90.01
			Coste Indirecto 6%	6.58
			TOTAL PARTIDA	116.17

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
232	704.0053N1	m	BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	
			Mano de obra	0.22
			Maquinaria	5.81
			Materiales	95.00
			Coste Indirecto 6%	6.06
			TOTAL PARTIDA	107.09
233	704.0140N1	m	BARRERA DE OBRA CONTINUA A DOS CARAS DE MATERIAL PLÁSTICO Y 80 CM DE ALTURA, EN MÓDULOS ROJO-BLANCO, INCLUSO CAPTAFAROS INCORPORADOS, UNIDOS MEDIANTE FIJACIONES MACHIHEMBRADAS, INCLUSO RETIRADA FINAL.	
			Mano de obra	4.01
			Maquinaria	0.58
			Materiales	39.80
			Coste Indirecto 6%	2.66
			TOTAL PARTIDA	47.05
234	704.0190N1	m	PANTALLA OPACA DE 4 M PARA PROTECCIÓN DE AVES, COMPUESTA POR PERFIL HEB-160 DE ACERO TIPO S 275 JR (NORMA UNE-EN 10025-1:2006) Y DOS PERFILES LPN 70.7 DEL MISMO MATERIAL DE LAS HEB CON TRATAMIENTO ANTICORROSIÓN, DISPUESTOS COMO EN PLANOS I/ PASAMANOS Y P.P. DE TORNILLERÍA Y PLACA DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO Y PINTADO	
			Mano de obra	41.73
			Maquinaria	18.80
			Materiales	273.76
			Coste Indirecto 6%	20.06
			TOTAL PARTIDA	354.35
235	704.0192N1	m²	PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 MM DE ESPESOR, I/ PARTE PROPORCIONAL DE SUJECCIONES O APOYOS, TOTALMENTE INSTALADA Y COLACADA.	
			Mano de obra	14.29
			Maquinaria	2.90
			Materiales	36.51
			Coste Indirecto 6%	3.22
			TOTAL PARTIDA	56.92

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

236 704.0540 m

BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA.
NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	4.72
Maquinaria	0.36
Materiales	28.80
Coste Indirecto 6%	2.03
TOTAL PARTIDA	35.91

237 704.0610 m

BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,10 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA.
NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	5.76
Maquinaria	0.38
Materiales	29.64
Coste Indirecto 6%	2.15
TOTAL PARTIDA	37.93

238 704.0740 m

BARRERA DE HORMIGÓN PREFABRICADA CON UNA CARA ACTIVA CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1 O INFERIOR, DEFLEXIÓN DINÁMICA 0,10 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD.
NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	7.31
Maquinaria	4.33
Materiales	110.34
Coste Indirecto 6%	7.32
TOTAL PARTIDA	129.30

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

239 704.0740N1 m

BARRERA DE SEGURIDAD DOBLE DE HORMIGÓN EMBEBIENDO POSTE, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W3 O INFERIOR, DEFLEXIÓN DINÁMICA 0,0 M, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA.
NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	26.33
Maquinaria	14.48
Materiales	223.60
Coste Indirecto 6%	15.87
TOTAL PARTIDA	280.29

240 704.1520 m

BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA.
NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	5.76
Maquinaria	0.43
Materiales	55.15
Coste Indirecto 6%	3.68
TOTAL PARTIDA	65.02

241 704.1620 m

BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,20 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA.
NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).

Mano de obra	6.29
Maquinaria	0.45
Materiales	76.02
Coste Indirecto 6%	4.97
TOTAL PARTIDA	87.73

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
242	704.2630	m	BARRERA DE HORMIGÓN PREFABRICADA CON DOBLE CARA ACTIVA CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,60 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	
			Mano de obra	7.31
			Maquinaria	4.33
			Materiales	86.68
			Coste Indirecto 6%	5.90
			TOTAL PARTIDA	104.22
243	704.3710	m	BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, DEFLEXIÓN DINÁMICA 0,80 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE BARRERA MÓVIL DE PASO DE MEDIANA (INCLUIR EN PPTP).	
			Mano de obra	20.97
			Maquinaria	2.79
			Materiales	605.48
			Coste Indirecto 6%	37.75
			TOTAL PARTIDA	666.99
244	801.0030N1	m	JALONAMIENTO TEMPORAL DE PROTECCIÓN FORMADO POR SOPORTES ANGULARES METÁLICOS DE 30 MM Y 1 M DE LONGITUD UNIDOS ENTRE SI MEDIANTE UNA CINTA DE SEÑALIZACIÓN DE OBRA Y COLOCADOS CADA 8 M.	
			Mano de obra	0.12
			Materiales	0.44
			Coste Indirecto 6%	0.03
			TOTAL PARTIDA	0.59
245	801.0050	m³	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA, EN SUPERFICIES HORIZONTALES.	
			Mano de obra	0.21
			Maquinaria	0.83
			Coste Indirecto 6%	0.06
			TOTAL PARTIDA	1.10

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
246	801.0060	m³	ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.	
			Mano de obra	0.31
			Maquinaria	1.14
			Coste Indirecto 6%	0.09
			TOTAL PARTIDA	1.54
247	801.0070	m²	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.	
			Mano de obra	0.28
			Maquinaria	0.43
			Materiales	0.37
			Coste Indirecto 6%	0.06
			TOTAL PARTIDA	1.14
248	801.0070N2	m²	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.	
			Mano de obra	0.27
			Maquinaria	0.43
			Materiales	0.37
			Coste Indirecto 6%	0.06
			TOTAL PARTIDA	1.13
249	801.0073N1	m²	SUMINISTRO Y PROYECCIÓN DE HIDROMULCH EN DOSIS DE 175-230 G/M2 COMPUESTO POR MEZCLA HOMOGÉNEA DE FIBRAS VEGETALES DE MADERA LARGA, ESTABILIZANTE, SEMILLAS, FERTILIZANTES Y DEMÁS ADITIVOS.	
			Mano de obra	0.27
			Maquinaria	0.43
			Materiales	0.76
			Coste Indirecto 6%	0.09
			TOTAL PARTIDA	1.55
250	801.0100	m²	COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.	
			Mano de obra	1.69
			Maquinaria	5.62
			Materiales	110.50
			Coste Indirecto 6%	7.07
			TOTAL PARTIDA	124.88
251	801.0100N2	ud	SONDEOS ARQUEOLÓGICOS MANUALES EN LA TRAZA E INFORME.	
			Mano de obra	1,367.20
			Maquinaria	1,997.55

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	770.25
			Coste Indirecto 6%	248.10
			TOTAL PARTIDA	4,383.10
252	801.0230	ud	EJECUCIÓN DE PLANTACIÓN THYMUS VULGARIS (TOMILLO) DE 1/2 SAVIAS EN ALVEOLO FORESTAL DE 300 CC, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.30
			Maquinaria	0.62
			Materiales	1.15
			Coste Indirecto 6%	0.24
			TOTAL PARTIDA	4.31
253	801.0360N18	ud	EJECUCIÓN DE PLANTACIÓN ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	3.26
			Maquinaria	0.69
			Materiales	1.56
			Coste Indirecto 6%	0.33
			TOTAL PARTIDA	5.84
254	801.0360N24	ud	EJECUCIÓN DE PLANTACIÓN PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	3.26
			Maquinaria	0.69
			Materiales	1.20
			Coste Indirecto 6%	0.31
			TOTAL PARTIDA	5.46

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
255	801.0360N26	ud	EJECUCIÓN DE PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	0.93
			Coste Indirecto 6%	0.23
			TOTAL PARTIDA	4.00
256	801.0360N27	ud	EJECUCIÓN DE PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	0.86
			Coste Indirecto 6%	0.22
			TOTAL PARTIDA	3.92
257	801.0360N34	ud	EJECUCIÓN DE PLANTACIÓN ILEX AQUIFOLIUM (ACEBO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.62
			Maquinaria	0.62
			Materiales	1.15
			Coste Indirecto 6%	0.26
			TOTAL PARTIDA	4.65

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
258	801.0360N35	ud	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	12.00
			Coste Indirecto 6%	0.89
			TOTAL PARTIDA	15.73
259	801.0360N36	ud	EJECUCIÓN DE PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	2.04
			Coste Indirecto 6%	0.29
			TOTAL PARTIDA	5.17
260	801.0360N37	ud	EJECUCIÓN DE PLANTACIÓN DE CONIFERAS ENANAS DE LOS GÉNEROS JUNIPERUS, THUYA, PICEA, PINUS, ETC, ..., SEGÚN DISPONIBILIDAD, DE 20-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	2.18
			Coste Indirecto 6%	0.30
			TOTAL PARTIDA	5.32

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
261	801.0360N38	ud	EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	
			Mano de obra	2.22
			Maquinaria	0.62
			Materiales	2.49
			Coste Indirecto 6%	0.32
			TOTAL PARTIDA	5.65
262	801.0380	ud	RIEGO DE ARBUSTOS MEDIANTE CAMIÓN CISTERNA 8000 L I/ CARGA Y TRANSPORTE DESDE PUNTO DE ABASTECIMIENTO HASTA EL LUGAR DE USO.	
			Mano de obra	1.25
			Maquinaria	0.48
			Materiales	0.02
			Coste Indirecto 6%	0.11
			TOTAL PARTIDA	1.86
263	801.0410N1	ud	APORTE Y EXTENDIDO MANUAL DE ABONO MINERAL EN ALCORQUE DE ARBUSTO O MATORRAL BAJO, TIPO NKP 15-15-15, A UNA DOSIS DE 60 G/UD, I/ CARGA Y TRANSPORTE.	
			Mano de obra	0.22
			Maquinaria	0.07
			Materiales	0.03
			Coste Indirecto 6%	0.02
			TOTAL PARTIDA	0.34
264	801.0423N1	m²	ÁREA DE SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA, MEDIANTE PASE DE SEGADORA DE 1,4 M DE ANCHURA DE CORTE ACOPLADA A LA TOMA DE FUERZA DE TRACTOR JARDINERO DE 60 CV, I/ EL CORTE CON MOTOGUADAÑA DE HILOS DE LAS HERBÁCEAS QUE PROSPERAN EN LOS ACORQUES DE LOS ARBOLES, LOS BORDES DE LOS MACIZOS DE ARBUSTOS UBICADOS EN LAS PRADERA Y CUALQUIER OTRO ELEMENTO U EQUIPAMIENTO. MEDIDA LA SUPERFICIE REAL EJECUTADA SEGUN DEFINICIÓN DE PROYECTO.	
			Mano de obra	0.43
			Maquinaria	1.06
			Coste Indirecto 6%	0.09
			TOTAL PARTIDA	1.58

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
265	801.0450	m	BARANDILLA DE PROTECCIÓN DE AVES, DE ACERO CON TRATAMIENTO ANTICORROSIÓN Y PINTADO, COMPUESTA POR PERFILES TUBULARES DE DIÁMETRO 50 MM DE 3 M DE ALTURA, ALTERNADOS CON DOS PERFILES TUBULARES DE 40 MM DE DIÁMETRO Y 1,10 M DE ALTURA DISPUESTOS COMO EN PLANOS I/ P.P. DE CHAPAS Y ELEMENTOS DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO.	
			Mano de obra	23.04
			Maquinaria	17.65
			Materiales	223.31
			Coste Indirecto 6%	15.84
			TOTAL PARTIDA	279.84
266	801.0540N1	ud	PUERTA DE ESCAPE PARA MAMÍFEROS GRANDES DESDE EL INTERIOR DE LAOBRA VALLADA, MEDIANTE MALLA DE ACERO DE SIMPLE TORSIÓN, CON PERFILES YREFUERZOS DE TUBOS DE ACERO GALVANIZADO, COLOCADA.	
			Mano de obra	52.86
			Materiales	110.54
			Coste Indirecto 6%	9.80
			TOTAL PARTIDA	173.20
267	801.0550N1	ud	SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES DESDE EL INTERIOR DE LA OBRA VALLADA, INSTALADA EN VALLA DE CERRAMIENTO.	
			Mano de obra	84.67
			Maquinaria	25.66
			Materiales	42.37
			Coste Indirecto 6%	9.16
			TOTAL PARTIDA	161.85
268	801.0570N1	m²	ESCARIFICADO CON MÁQUINA ESCARIFICADORA A MOTOR, INCLUSO RASTRILLADO DE LOS PRODUCTOS DE LA ESCARIFICACIÓN Y RETIRADA DE SOBRANTES.	
			Mano de obra	0.33
			Maquinaria	0.38
			Coste Indirecto 6%	0.04
			TOTAL PARTIDA	0.75

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
269	801.0581N1	m²	ESCARDA DE ÁRBOLES Y MACIZOS ARBUSTIVOS CON ACOLCHADO ORGÁNICO, CONSISTENTE EN ARRANQUE, ENTRECAVA Y ELIMINACIÓN DE MALAS HIERBAS EN ÁRBOLES Y ARBUSTOS, I/ REGULARIZACIÓN FINAL DE LAS SUPERFICIE, RECOGIDA DE RESTOS Y TRASNPORTE A ZONA DE COMPOSTAJE. MEDIDA LA SUPERFICIE REALEMENTE EJECUTADA SEGÚN DEFINICIONES DE PROYECTO.	
			Mano de obra	0.78
			Materiales	0.04
			Coste Indirecto 6%	0.05
			TOTAL PARTIDA	0.87
270	801.0613N1	ud	SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO, CONSISTENTE EN SEÑAL, I/ POSTE METÁLICO GALVANIZADO DE SUSTENTACIÓN Y CIMENTACIÓN COLOCADO	
			Mano de obra	35.25
			Maquinaria	1.48
			Materiales	139.11
			Coste Indirecto 6%	10.55
			TOTAL PARTIDA	186.38
271	801.0615N1	m²	PROTECCIÓN DE ESPECIES ARBÓREAS CERCANAS AL TRAZADO MEDIANTE PERÍMETRO EMPALIZADO DE SEIS TABLONES POR PIE	
			Mano de obra	24.17
			Materiales	42.89
			Coste Indirecto 6%	4.02
			TOTAL PARTIDA	71.08
272	801.0701N1	ud	DEPÓSITO FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, CON UN DIÁMETRO DE 1,50 M Y UNA ALTURA 2,50 M, PROVISTO DE TAPA SUPERIOR PARA EVITAR EL ENSUCIAMIENTO DEL DEPÓSITO Y ASÍ ELIMINAR POSIBLES AVERÍAS EN LA BOMBA DE FLOCULANTE.	
			Mano de obra	254.64
			Maquinaria	116.16
			Materiales	1,486.00
			Coste Indirecto 6%	111.41
			TOTAL PARTIDA	1,968.21
273	801.0702N1	ud	AGITADOR DE FLOCULANTE DE 1.350 RPM CON MOTOREDUCTOR DE 0,37 KW PARA MEZCLAR EL FLOCULANTE CON EL AGUA DE RED.	
			Mano de obra	127.32
			Materiales	1,683.00
			Coste Indirecto 6%	108.62
			TOTAL PARTIDA	1,918.94

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
274	801.0703N1	ud	BOMBA DOSIFICADORA DE PISTÓN DE 0,37 KW, PARA UN CAUDAL DE 204 L/H REGULABLE DE 0% A 100% MEDIANTE REGULADOR DE CARRERA DEL PISTÓN. LA BOMBA ESTÁ PROVISTA DE PREFILTRO PARA PROTECCIÓN DE ENSUCIAMIENTO DE LAS ANTIRRETORNO DE LA MISMA.	
			Mano de obra	127.32
			Materiales	1,733.00
			Coste Indirecto 6%	111.62
			TOTAL PARTIDA	1,971.94
275	801.0704N1	ud	CUADRO DE MANDO Y MANIOBRA PARA FUNCIONAMIENTO EN AUTOMÁTICO.	
			Mano de obra	84.50
			Materiales	3,720.00
			Coste Indirecto 6%	228.27
			TOTAL PARTIDA	4,032.77
276	801.0705N1	ud	ESTRUCTURA METÁLICA DE SOPORTE EN ACERO AL CARBONO, PENSADA PARA ALBERGAR TANTO EL DEPÓSITO COMO LA BOMBA DE FLOCULANTE, PH-METRO Y CUADRO ELÉCTRICO.	
			Mano de obra	318.30
			Maquinaria	290.40
			Materiales	1,032.00
			Coste Indirecto 6%	98.44
			TOTAL PARTIDA	1,739.14
277	801.0706N1	ud	EQUIPO DE CORRECCIÓN DE PH., COMPUESTO POR: PARRILLA DE 6 DIFUSORES DE BURBUJA FINA PARA DOSIFICACIÓN DE GASES, BY-PASS DE ENTRADA COMPUESTO DE 3 VÁLVULAS MANUALES DE ½" DE BOLA EN AISI 316, ELECTROVÁLVULA DE ACCIONAMIENTO DIRECTO COMANDADA DESDE EL ARMARIO ELÉCTRICO. INSTALACIÓN DE TUBERÍA DE ½" HASTA EL TANQUE DE CO2 O PACK DE BOTELLAS, NO INCLUIDO EL MANOREDUCTOR (LE APORTA EL SUMINISTRADOR DE CO2) Y MEDIDOR DE PH PARA MEDIR EN BALSA DE CORRECCIÓN CON SONDA DE INMERSIÓN Y SALIDA ELECTRÓNICA HASTA PLC DE CONTROL, PARA LA OPTIMIZACIÓN DEL PRODUCTO.	
			Mano de obra	127.32
			Materiales	4,502.00
			Coste Indirecto 6%	277.76
			TOTAL PARTIDA	4,907.08

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
278	801.0707N1	ud	BOMBEO DESDE DEPARTAMENTO DE AGUAS AJUSTADAS HACIA DEPARTAMENTO DE ENTRADA, CONSTITUIDO POR UNA BOMBA SUMERGIBLE, DE 2,2 KW DE POTENCIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	
			Mano de obra	95.49
			Materiales	3,429.00
			Coste Indirecto 6%	211.47
			TOTAL PARTIDA	3,735.96
279	801.0708N1	ud	ELECTROVÁLVULA PARA CONTROL DE ENTRADA DE AGUAS DESAJUSTADAS DESDE DEPARTAMENTO DE AJUSTE DE PH HACIA DEPARTAMENTO DE AGUAS DESAJUSTADAS	
			Mano de obra	52.67
			Materiales	319.00
			Coste Indirecto 6%	22.30
			TOTAL PARTIDA	393.97
280	801.0801N1	ud	BOMBEO CABECERA FORMADO POR DOS BOMBAS SUMERGIBLES PARA BOMBEO DEL AGUA RESIDUAL HACIA LA FASE DE DECANTACIÓN, CON RODETE DE TIPO VORTEX RETRASADO EN HIERRO FUNDIDO, CON UN PASO LIBRE ESFÉRICO DE 50 MM, DE 2,2 KW DE POTENCIA UNITARIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	
			Mano de obra	210.68
			Maquinaria	174.24
			Materiales	6,680.00
			Coste Indirecto 6%	423.90
			TOTAL PARTIDA	7,488.82
281	801.0802N1	ud	DEPÓSITO DE PREPARACIÓN DE FLOCULANTE FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, EQUIPADO CON UN AGITADOR PARA LA PERFECTA DILUCIÓN DEL FLOCULANTE, ACCIONADO MEDIANTE UN MOTOR REDUCTOR ACCIONADO POR UN TEMPORIZADOR.	
			Mano de obra	232.66
			Maquinaria	174.24
			Materiales	1,422.00
			Coste Indirecto 6%	109.73
			TOTAL PARTIDA	1,938.63

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
282	801.0803N1	ud	EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE DESDE DEPÓSITO DE PREPARACIÓN, COMPUESTO POR DOS BOMBAS DOSIFICADORAS DE TIPO PISTÓN, CON REGULACIÓN MANUAL (0-100%) Y MOTOR TRIFÁSICO DE 0,37 KW	
			Mano de obra	63.66
			Materiales	3,642.00
			Coste Indirecto 6%	222.34
			TOTAL PARTIDA	3,928.00
283	801.0804N1	ud	DECANTADOR CILÍNDRICO, FABRICADO EN ACERO AL CARBONO, DE 3,50 METROS DE DIÁMETRO Y 6,00 METROS DE ALTURA, PROVISTO DE CAMPANA INTERIOR DE TRANQUILIZACIÓN DE FANGOS, CONO DE DEYECCIÓN, ALIVIADERO PARA SALIDA DEL VERTIDO. TAMBIÉN SE INCLUYE UNA ESTRUCTURA METÁLICA DE SOPORTE, ESCALERA DE GATO Y BARANDILLA DE SEGURIDAD.	
			Mano de obra	338.00
			Maquinaria	174.24
			Materiales	20,932.00
			Coste Indirecto 6%	1,286.65
			TOTAL PARTIDA	22,730.89
284	801.0805N1	ud	DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE SECCIÓN CIRCULAR, DE 3,0 M DE DIÁMETRO Y 4,50 METROS DE ALTURA, CON ESTRUCTURA METÁLICA DE SOPORTE, PROVISTO DE UN SISTEMA DE MEZCLA COMPUESTO POR UNA DRAINEX 200. EL DEPÓSITO UENTA CON UNA PARRILLA DE DIFUSORES INSTALADA EN SU FONDO PARA LA INYECCIÓN DE CO2. TAMBIÉN INCLUYE UN PH-METRO DIGITAL QUE CONTROLA LA APERTURA DE UNA ELECTROVÁLVULA QUE REGULA LA ENTRADA DE CO2 A LOS DIFUSORES. LA INSTALACIÓN QUEDA PREPARADA PARA QUE LA INYECCIÓN DE CO2 PUEDA SER CONECTADA DIRECTAMENTE.	
			Mano de obra	231.52
			Maquinaria	116.16
			Materiales	19,065.00
			Coste Indirecto 6%	1,164.76
			TOTAL PARTIDA	20,577.44
285	801.0806N1	ud	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.	
			Mano de obra	169.00
			Materiales	11,550.00

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%	703.14
			TOTAL PARTIDA	12,422.14
286	801.0807N1	ud	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS	
			Mano de obra	676.00
			Materiales	18,852.00
			Coste Indirecto 6%	1,171.68
			TOTAL PARTIDA	20,699.68
287	801.0808N1	ud	ACONDICIONADOR DE FANGOS, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE 1,00 M DE DIÁMETRO Y 1,50 METROS DE ALTURA, PROVISTO DE UN SISTEMA DE MEDIDORES DE NIVEL PARA LA AUTOMATIZACIÓN DEL BOMBEO DE ALIMENTACIÓN AL FILTRO PRENSA.	
			Mano de obra	63.66
			Materiales	1,214.00
			Coste Indirecto 6%	76.66
			TOTAL PARTIDA	1,354.32
288	801.0809N1	ud	BOMBA DE DOBLE MEMBRANA ACCIONADA POR AIRE PARA ALIMENTAR DE FANGOS AL FILTRO PRENSA, DE 2" CON EL CUERPO EN FUNDICIÓN Y MEMBRANAS EN NEOPRENO.	
			Mano de obra	63.66
			Materiales	2,791.00
			Coste Indirecto 6%	171.28
			TOTAL PARTIDA	3,025.94
289	801.0810N1	ud	SISTEMA DE DESHIDRATACIÓN DE FANGOS, CONSISTENTE EN UN FILTRO PRENSA DE DESCARGA DE TORTA AUTOMÁTICA, DE BAJA PRESIÓN, DE 35 PLACAS Y TELAS FILTRANTES DE 800 X 800 MM., CON UNA CAPACIDAD DE 507 LITROS. INCLUYENDO ESTRUCTURA METÁLICA DE SOPORTE.	
			Mano de obra	801.04
			Maquinaria	464.64
			Materiales	55,017.00
			Coste Indirecto 6%	3,376.96
			TOTAL PARTIDA	59,659.64

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
290	801.0811N1	ud	AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.	
			Mano de obra	169.00
			Materiales	6,406.00
			Coste Indirecto 6%	394.50
			TOTAL PARTIDA	6,969.50
291	801.0812N1	ud	MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS.	
			Mano de obra	801.04
			Materiales	8,558.00
			Coste Indirecto 6%	561.54
			TOTAL PARTIDA	9,920.58
292	801.0901N1	ud	EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FORMADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASONDAS.	
			Mano de obra	116.33
			Materiales	4,023.00
			Coste Indirecto 6%	248.36
			TOTAL PARTIDA	4,387.69
293	801.0902N1	ud	CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO	
			Mano de obra	127.32
			Materiales	3,490.00
			Coste Indirecto 6%	217.04
			TOTAL PARTIDA	3,834.36
294	801.0903N1	ud	REGISTRADOR DE DATOS, DE 4 CANALES.	
			Mano de obra	63.66
			Materiales	1,845.00
			Coste Indirecto 6%	114.52
			TOTAL PARTIDA	2,023.18

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
295	802.0010	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).	
			Mano de obra	12.30
			Maquinaria	32.02
			Materiales	6.24
			Coste Indirecto 6%	3.03
			TOTAL PARTIDA	53.59
296	802.0020	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).	
			Mano de obra	5.20
			Maquinaria	19.05
			Materiales	4.68
			Coste Indirecto 6%	1.74
			TOTAL PARTIDA	30.67
297	802.0030	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).	
			Mano de obra	12.92
			Maquinaria	33.66
			Materiales	6.24
			Coste Indirecto 6%	3.17
			TOTAL PARTIDA	55.99

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
298	802.0040	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).	
			Mano de obra	5.47
			Maquinaria	19.93
			Materiales	4.68
			Coste Indirecto 6%	1.80
			TOTAL PARTIDA	31.88
299	802.0050	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).	
			Mano de obra	13.54
			Maquinaria	35.30
			Materiales	6.24
			Coste Indirecto 6%	3.30
			TOTAL PARTIDA	58.38
300	802.0060	m³	EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).	
			Mano de obra	5.74
			Maquinaria	21.04
			Materiales	4.68
			Coste Indirecto 6%	1.89
			TOTAL PARTIDA	33.35

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
301	802.0150	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).	
			Mano de obra	6.69
			Maquinaria	43.74
			Coste Indirecto 6%	3.03
			TOTAL PARTIDA	53.46
302	802.0160	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).	
			Mano de obra	1.73
			Maquinaria	25.40
			Coste Indirecto 6%	1.63
			TOTAL PARTIDA	28.76
303	802.0180	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	
			Mano de obra	23.73
			Maquinaria	50.62
			Materiales	6.24
			Coste Indirecto 6%	4.84
			TOTAL PARTIDA	85.43
304	802.0190	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	
			Mano de obra	12.01
			Maquinaria	26.41
			Materiales	4.68

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%.....	2.59
			TOTAL PARTIDA.....	45.69
305	802.0200	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD BUENA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).	
			Mano de obra.....	15.08
			Maquinaria.....	39.43
			Materiales.....	6.24
			Coste Indirecto 6%.....	3.65
			TOTAL PARTIDA.....	64.40
306	802.0210	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD MALA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).	
			Mano de obra.....	20.83
			Maquinaria.....	42.36
			Materiales.....	6.24
			Coste Indirecto 6%.....	4.17
			TOTAL PARTIDA.....	73.60
307	803.0090	m	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	8.69
			Maquinaria.....	6.91
			Materiales.....	6.58
			Coste Indirecto 6%.....	1.33
			TOTAL PARTIDA.....	23.51

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
308	803.0100	m	BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	8.69
			Maquinaria.....	6.91
			Materiales.....	8.97
			Coste Indirecto 6%.....	1.47
			TOTAL PARTIDA.....	26.04
309	803.0140	m	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	7.23
			Maquinaria.....	9.35
			Materiales.....	20.35
			Coste Indirecto 6%.....	2.22
			TOTAL PARTIDA.....	39.15
310	803.0150	m	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	9.66
			Maquinaria.....	9.77
			Materiales.....	3.51
			Coste Indirecto 6%.....	1.38
			TOTAL PARTIDA.....	24.32
311	803.0210	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 6 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	
			Mano de obra.....	5.00
			Maquinaria.....	26.09
			Materiales.....	3.39
			Coste Indirecto 6%.....	2.07
			TOTAL PARTIDA.....	36.55
312	803.0220	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	
			Mano de obra.....	5.00
			Maquinaria.....	26.09
			Materiales.....	3.69

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%.....	2.09
			TOTAL PARTIDA.....	36.87
313	803.0230	m²	MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	
			Mano de obra.....	5.23
			Maquinaria.....	36.59
			Materiales.....	5.30
			Coste Indirecto 6%.....	2.83
			TOTAL PARTIDA.....	49.95
314	803.0303N1	m²	MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	
			Mano de obra.....	7.48
			Maquinaria.....	1.22
			Materiales.....	4.40
			Coste Indirecto 6%.....	0.79
			TOTAL PARTIDA.....	13.89
315	803.0320	m	CERCHA DE TIPO TH-21 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	12.98
			Maquinaria.....	35.11
			Materiales.....	51.75
			Coste Indirecto 6%.....	5.99
			TOTAL PARTIDA.....	105.83
316	803.0330	m	CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra.....	17.91
			Maquinaria.....	42.12
			Materiales.....	69.47
			Coste Indirecto 6%.....	7.77
			TOTAL PARTIDA.....	137.27
317	803.0350	m	CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra.....	26.32
			Maquinaria.....	60.74
			Materiales.....	89.55
			Coste Indirecto 6%.....	10.60
			TOTAL PARTIDA.....	187.21
318	803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	
			Mano de obra.....	62.28
			Maquinaria.....	57.08
			Materiales.....	134.43
			Coste Indirecto 6%.....	15.23
			TOTAL PARTIDA.....	269.02
319	803.0441N1	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.	
			Mano de obra.....	42.68
			Maquinaria.....	28.98
			Materiales.....	125.56
			Coste Indirecto 6%.....	11.83
			TOTAL PARTIDA.....	209.05
320	803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.	
			Mano de obra.....	61.25
			Maquinaria.....	56.10
			Materiales.....	134.43
			Coste Indirecto 6%.....	15.11
			TOTAL PARTIDA.....	266.89
321	803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.	
			Mano de obra.....	47.81
			Maquinaria.....	41.68
			Coste Indirecto 6%.....	5.37
			TOTAL PARTIDA.....	94.86
322	803.0510	m	DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.	
			Mano de obra.....	1.04
			Maquinaria.....	22.27
			Materiales.....	0.75
			Coste Indirecto 6%.....	1.44
			TOTAL PARTIDA.....	25.50

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
323	803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.	
			Mano de obra	9.58
			Maquinaria	35.45
			Materiales	43.01
			Coste Indirecto 6%	5.28
			TOTAL PARTIDA	93.32
324	803.0613N1	m	MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.	
			Mano de obra	31.45
			Maquinaria	123.31
			Materiales	108.60
			Coste Indirecto 6%	15.80
			TOTAL PARTIDA	279.16
325	803.0620	m²	CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.	
			Mano de obra	6.55
			Maquinaria	1.92
			Materiales	68.51
			Coste Indirecto 6%	4.62
			TOTAL PARTIDA	81.60
326	803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	
			Mano de obra	0.09
			Materiales	0.99
			Coste Indirecto 6%	0.06
			TOTAL PARTIDA	1.14
327	804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	
			Mano de obra	7.67
			Maquinaria	6.29
			Materiales	87.91
			Coste Indirecto 6%	6.11

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA	107.98
328	804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	
			Mano de obra	6.22
			Maquinaria	12.60
			Materiales	87.91
			Coste Indirecto 6%	6.40
			TOTAL PARTIDA	113.13
329	804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.	
			Mano de obra	7.69
			Maquinaria	7.07
			Materiales	87.91
			Coste Indirecto 6%	6.16
			TOTAL PARTIDA	108.83
330	804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	
			Mano de obra	6.76
			Maquinaria	3.92
			Materiales	16.78
			Coste Indirecto 6%	1.65
			TOTAL PARTIDA	29.11
331	804.0151N1	m²	ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	
			Mano de obra	5.41
			Maquinaria	3.27
			Materiales	15.40
			Coste Indirecto 6%	1.44
			TOTAL PARTIDA	25.52
332	804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.	
			Mano de obra	9.70
			Maquinaria	2.70
			Materiales	3.59
			Coste Indirecto 6%	0.96
			TOTAL PARTIDA	16.95
333	804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.	
			Mano de obra	0.02

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	7.47
			Coste Indirecto 6%	0.45
			TOTAL PARTIDA	7.94
334	804.0200	m³	INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.	
			Mano de obra	7.15
			Maquinaria	1.14
			Materiales	73.23
			Coste Indirecto 6%	4.89
			TOTAL PARTIDA	86.41
335	805.0010	m²	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra	6.60
			Materiales	12.49
			Coste Indirecto 6%	1.15
			TOTAL PARTIDA	20.24
336	805.0010N1	m²	LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.	
			Mano de obra	5.30
			Materiales	10.70
			Coste Indirecto 6%	0.96
			TOTAL PARTIDA	16.96
337	805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.	
			Mano de obra	5.16
			Materiales	6.44
			Coste Indirecto 6%	0.70
			TOTAL PARTIDA	12.30

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
338	805.0020	ud	SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).	
			Mano de obra	0.43
			Materiales	0.74
			Coste Indirecto 6%	0.07
			TOTAL PARTIDA	1.24
339	805.0031N1	m	DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.	
			Mano de obra	3.44
			Maquinaria	2.43
			Materiales	18.09
			Coste Indirecto 6%	1.44
			TOTAL PARTIDA	25.40
340	805.0061N1	m	TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURADO DE PVC DE 110 MM DE DIÁMETRO, EN TÚNEL I/ MATERIAL DE ASIENTO CON MORTERO DE 10 CM DE ESPESOR Y RESTO DE MATERIALES PARA SU TOTAL TERMINACIÓN Y PUESTA EN OBRA.	
			Mano de obra	3.49
			Maquinaria	2.43
			Materiales	7.22
			Coste Indirecto 6%	0.79
			TOTAL PARTIDA	13.93
341	805.0131N1	m²	RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO.	
			Mano de obra	1.20
			Materiales	8.50
			Coste Indirecto 6%	0.58
			TOTAL PARTIDA	10.28
342	805.0132N1	ud	SUMINISTRO Y MONTAJE DE CODO DE 90º DE FUNDICIÓN DÚCTIL DE 200 MM DE DIÁMETRO PARA UNA PRESIÓN PN16.	
			Mano de obra	30.73
			Materiales	99.00
			Coste Indirecto 6%	7.78
			TOTAL PARTIDA	137.51

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
343	805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.	
			Mano de obra	19.80
			Maquinaria	9.88
			Materiales	23.76
			Coste Indirecto 6%	3.21
			TOTAL PARTIDA	56.65
344	807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.	
			Mano de obra	20.84
			Materiales	633.15
			Coste Indirecto 6%	39.24
			TOTAL PARTIDA	693.23
345	807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.	
			Materiales	1.28
			Coste Indirecto 6%	0.08
			TOTAL PARTIDA	1.36
346	807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.	
			Mano de obra	13.03
			Maquinaria	6.29
			Materiales	1.00
			Coste Indirecto 6%	1.22
			TOTAL PARTIDA	21.54
347	807.0051N1	ud	CAJA DE TERMINALES	
			Mano de obra	1.52
			Materiales	34.49
			Coste Indirecto 6%	2.16
			TOTAL PARTIDA	38.17
348	807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE	
			Mano de obra	8.61
			Materiales	239.20
			Coste Indirecto 6%	14.87
			TOTAL PARTIDA	262.68

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
349	807.0054N1	ud	EXTENSÓMETRO DE TRES VARILLAS.	
			Mano de obra	7.95
			Materiales	2,102.28
			Coste Indirecto 6%	126.61
			TOTAL PARTIDA	2,236.84
350	807.0056N1	m	CABLE APANTALLADO PARA AUSCULTACIÓN.	
			Mano de obra	0.38
			Materiales	1.72
			Coste Indirecto 6%	0.13
			TOTAL PARTIDA	2.23
351	807.0057N1	ud	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS.	
			Mano de obra	1.96
			Materiales	11.59
			Coste Indirecto 6%	0.81
			TOTAL PARTIDA	14.36
352	807.0058N1	ud	REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.	
			Mano de obra	81.57
			Materiales	1,989.54
			Coste Indirecto 6%	124.27
			TOTAL PARTIDA	2,195.38
353	807.0059N1	ud	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.	
			Mano de obra	71.03
			Materiales	195.89
			Coste Indirecto 6%	16.02
			TOTAL PARTIDA	282.94
354	807.0060N1	mes	AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.	
			Mano de obra	24,017.40

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%.....	1,441.04
			TOTAL PARTIDA.....	25,458.44
355	915.0010	m	CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS	
			Mano de obra.....	12.62
			Maquinaria.....	0.33
			Materiales.....	5.89
			Coste Indirecto 6%.....	1.13
			TOTAL PARTIDA.....	19.97
356	915.0010N1	m	CERRAMIENTO DE ADIF PARA L.A.V. DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3.5 M, ARRIOSTRAMIENTO CADA 35 M Y MALLA DE ACERO GALVANIZADO, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS	
			Mano de obra.....	24.26
			Maquinaria.....	2.31
			Materiales.....	9.87
			Coste Indirecto 6%.....	2.19
			TOTAL PARTIDA.....	38.63
357	915.0012N1	m	CERRAMIENTO DE 2,0 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3 M, ARRIOSTRAMIENTO CADA 30 M Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS.	
			Mano de obra.....	12.00
			Maquinaria.....	0.33
			Materiales.....	6.46
			Coste Indirecto 6%.....	1.13
			TOTAL PARTIDA.....	19.92
358	915.0020	ud	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.	
			Mano de obra.....	25.14
			Materiales.....	208.13
			Coste Indirecto 6%.....	14.00

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	247.27
359	915.0021N1	ud	PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 X 2,00 M), TOTALMENTE COLOCADA.	
			Mano de obra.....	18.45
			Maquinaria.....	4.61
			Materiales.....	513.00
			Coste Indirecto 6%.....	32.16
			TOTAL PARTIDA.....	568.22
360	920.0022N1	ud	BASE PARA COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS	
			Mano de obra.....	103.02
			Materiales.....	146.11
			Coste Indirecto 6%.....	14.95
			TOTAL PARTIDA.....	264.08
361	930.0001N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra.....	17.06
			Maquinaria.....	37.08
			Materiales.....	55.86
			Coste Indirecto 6%.....	6.60
			TOTAL PARTIDA.....	116.59
362	930.0002N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 200 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra.....	22.60
			Maquinaria.....	38.33
			Materiales.....	72.31
			Coste Indirecto 6%.....	7.99
			TOTAL PARTIDA.....	141.23
363	930.0003N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 250 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra.....	19.97
			Maquinaria.....	39.63
			Materiales.....	88.93
			Coste Indirecto 6%.....	8.91
			TOTAL PARTIDA.....	157.43
364	930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	
			Mano de obra.....	22.56

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Maquinaria	40.98
			Materiales	102.24
			Coste Indirecto 6%	9.95
			TOTAL PARTIDA	175.73
365	930.0004N2	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 400 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	
			Mano de obra	22.56
			Maquinaria	40.98
			Materiales	164.28
			Coste Indirecto 6%	13.67
			TOTAL PARTIDA	241.49
366	930.0005N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	
			Mano de obra	26.22
			Maquinaria	46.84
			Materiales	209.05
			Coste Indirecto 6%	16.93
			TOTAL PARTIDA	299.06
367	931.0001N1	ud	ARQUETA TIPO A-I	
			Mano de obra	69.87
			Maquinaria	104.41
			Materiales	235.05
			Coste Indirecto 6%	24.56
			TOTAL PARTIDA	433.90
368	931.0002N1	ud	ARQUETA TIPO A-II	
			Mano de obra	78.59
			Maquinaria	113.27
			Materiales	265.14
			Coste Indirecto 6%	27.42
			TOTAL PARTIDA	484.43
369	931.0003N1	ud	ARQUETA TIPO A-III	
			Mano de obra	100.99
			Maquinaria	128.34
			Materiales	356.85
			Coste Indirecto 6%	35.17
			TOTAL PARTIDA	621.35
370	931.0004N1	ud	ARQUETA TIPO A-IV	
			Mano de obra	112.03
			Maquinaria	141.43
			Materiales	389.39
			Coste Indirecto 6%	38.57
			TOTAL PARTIDA	681.41

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
371	932.0001N1	m	TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra	5.31
			Maquinaria	10.27
			Materiales	8.30
			Coste Indirecto 6%	1.43
			TOTAL PARTIDA	25.30
372	932.0002N1	m	TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra	5.74
			Maquinaria	10.27
			Materiales	13.08
			Coste Indirecto 6%	1.74
			TOTAL PARTIDA	30.82
373	932.0002N2	m	TUBERÍA DE POLIETILENO Ø DE 110 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	
			Mano de obra	5.74
			Maquinaria	10.27
			Materiales	14.81
			Coste Indirecto 6%	1.85
			TOTAL PARTIDA	32.66
374	932.0006N1	m	TUBERÍA DE PVC DE Ø 400 MM	
			Mano de obra	16.16
			Maquinaria	27.82
			Materiales	184.92
			Coste Indirecto 6%	13.73
			TOTAL PARTIDA	242.64
375	950.0010	t	CLASIFICACIÓN Y RECOGIDA SELECTIVA DE RESIDUOS, EXCEPTO TIERRAS Y PIEDRAS DE EXCAVACIÓN, MEDIANTE MEDIOS MANUALES Y MECÁNICOS DE LOS RESIDUOS Y SU DEPÓSITO EN LA ZONA PRINCIPAL DE ALMACENAMIENTO DE RESIDUOS DE LA OBRA.	
			Mano de obra	4.17
			Maquinaria	1.97
			Coste Indirecto 6%	0.37
			TOTAL PARTIDA	6.51

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

376 950.0020 t

CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSO - RNP- DE CARÁCTER NO PÉTREO (CARTÓN-PAPEL, MADERA, VIDRIO, PLÁSTICOS Y METALES INCLUIDOS ENVASES Y EMBALAJES DE ESTOS MATERIALES ASÍ COMO BIODEGRADABLES DEL DESBROCE) A PLANTA DE VALORIZACIÓN AUTORIZADA POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA, INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.

Maquinaria	3.34
Materiales	7.00
Coste Indirecto 6%	0.62
TOTAL PARTIDA	10.96

377 950.0030 t

CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSOS -RNP- DE CARÁCTER PÉTREO (EXCEPTO TIERRAS Y PIEDRAS) CONSTITUIDOS POR HORMIGÓN, LADRILLOS, TEJAS Y MATERIALES CERÁMICOS (O MEZCLA DE ÉSTOS), YESO Y/O MEZCLAS BITUMINOSAS A PLANTA DE VALORIZACIÓN POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES BASCULANTES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.

Maquinaria	3.34
Materiales	4.00
Coste Indirecto 6%	0.44
TOTAL PARTIDA	7.78

378 950.0080N1 t

CANON DE ENTRADA A PLANTA DE GESTIÓN DE RESIDUOS DE TIERRAS. NO SE INCLUYE EL TRANSPORTE.

Materiales	3.07
Coste Indirecto 6%	0.18
TOTAL PARTIDA	3.25

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

379 955.0001N1 m

DESMONTAJE, POR MEDIOS MANUALES, DE LAS REJILLAS DE CANALETAS PERIMETRALES DE DESAGÜE DEL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN DE LAS MISMAS; I/ REPOSICIÓN DE LAS REJAS O ELEMENTOS DE FIJACIÓN Y ANCLAJE EN MAL ESTADO O DETERIORADAS, LIMPIEZA DE LAS REJAS REUTILIZABLES CON AGUA A PRESIÓN, COLOCACIÓN DE LAS REJILLAS EN LAS CANALETAS PARA FIJACIÓN DEL NUEVO CÉSPED, LIMPIEZA DE LA CANALETA Y SISTEMA DE DRENAJE MEDIANTE AGUA A PRESIÓN COMPROBANDO SU CONEXIÓN CON EL COLECTOR DE SANEAMIENTO Y SU FUNCIONAMIENTO. MEDIDA LA LONGITUD REALMENTE EJECUTADA.

Mano de obra	1.77
Maquinaria	1.22
Materiales	0.12
Coste Indirecto 6%	0.19
TOTAL PARTIDA	3.30

380 955.0002N1 ud

DESMONTAJE Y RETIRADA, POR MEDIOS MANUALES, DEL EQUIPAMIENTO DEPORTIVO (PORTERÍAS, BARADILLAS, BANQUILLOS, CAÑONES DE RIEGO, ETC...) EXISTENTE EN EL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN Y COLOCACIÓN, I/ REPOSICIÓN DE ELEMENTOS AUXILIARES Y DE FIJACIÓN O ANCLAJE DEL EQUIPAMIENTO EN MAL ESTADO O DETERIORADAS, COLOCACIÓN DEL EQIIPAMIENTO DEPORTIVO TRAS LA INSTALACIÓN DEL NUEVO CÉSPED, MEDIOS AUXILIARES Y AYUDAS DE ALBAÑILERÍA.

Mano de obra	223.12
Materiales	0.70
Coste Indirecto 6%	13.43
TOTAL PARTIDA	237.25

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

381 955.0003N1 m²

LEVANTADO Y RETIRADA DE PAVIMENTO DE CÉSPED ARTIFICIAL REALIZADO POR MEDIOS MECÁNICOS, MEDIANTE MAQUINARIA ESPECIALIZADA QUE PERMITA LA SEPARACIÓN MECÁNICA "IN SITU" DE TODOS SUS COMPONENTES (MOQUETA + ÁRIDO + SBR NEGRO) PARA POSTERIOR CLASIFICACIÓN, I/ EL ALMACENAMIENTO DEL MATERIAL DE RELLENO (ÁRIDO Y SBR NEGRO) EN SACAS IMPERMEABLES INDEPENDIENTES PARA SU REUTILIZACIÓN O TRANSPORTE A VERTEDERO CONTROLADO (SEGÚN DETERMINACIÓN DEL DIRECTOR DE OBRA, ALMACENAMIENTO DE LOS ROLLOS DE CÉSPED ARTIFICIAL O TRANSPORTE A LUGAR DETERMINADO POR EL DIRECTOR DE OBRA), LIMPIEZA DE BARREDORA MECÁNICA DE LA CAPA DE SOPORTE (BASE ASFÁLTICA) Y EL TRANSPORTE A VERTEDERO DE ESCOMBROS Y MATERIAL RESIDUAL. MEDIDA LA SUPERFICIE EJECUTADA.

Mano de obra	0.18
Maquinaria	1.46
Coste Indirecto 6%	0.10
TOTAL PARTIDA	1.74

382 955.0004N1 m²

SUMINISTRO E INSTALACIÓN DE CÉSPED ARTIFICIAL TIPO FIELDTURF OPTIMUM 60 MM O SIMILAR. HILO MONOFILAMENTO CÓNCAVO MULTINERVADO EN SU TOTALIDAD (MÍNIMO 15 NEVIOS ASIMÉTRICOS) DE 12000 DTEX Y 240 MICRAS, DE ALTA RESISTENCIA Y 7559 PUNTADAS (+/- 10%). FIBRA CON TRATAMIENTO ANTI UVA RESISTENTE AL CALOR Y AL HIELO LASTRADA CON ARENA DE SÍLICE REDONDEADA, LIMPIA Y SECA DE GRANULOMETRÍA 0.3/0.8 EN UNA PROPORCIÓN DE 18 KG/M² (+/- 10 %) Y CAUCHO SBR NEGRO DE GRANULOMETRÍA 0.5-2.5 MM EN UN APROPORCIÓN DE 16 KG/M² (+/- 10%). HILO DE POLIETILENO TEJIDO SOBRE UN BACKING ESPECIALMENTE REFORZADO 100% POLIPROPILENO. PESO DE FIBRA: 1164 G/M² (+/- 10%) Y PESO TOTAL APROXIMADO DE 2324 G/M² (+/- 10%). SERVIDO EN ROLLOS DE 4 M DE ANCHO. MARCAJE DE LÍNEAS DE JUEGO DE FÚTBOL 11 EN EL MISMO MATERIAL EN COLOR BLANCO DE 10 CM DE ANCHO CUMPLIENDO LA REGLAMENTACIÓN DE LA R.F.E.F., CON LAS JUNTAS ENCOLADAS CON COLA DE POLIURETANO. PRODUCTO TESTADO EN LABORATORIO CONFORME CUMPLE LOS CRITERIOS FIFA 2*, SIN BASE ELÁSTICA. SE UTILIZARÁ MÁQUINA AUTOPROPULSADA, TIPO SMG-SANMATIC O SIMILAR, DE DOSIFICACIÓN AUTOMÁTICA Y CEPILLOS CONTRAORARIOS QUE PERMITAN EL DEPÓSITO EXACTO DE UNA DETERMINADA CANTIDAD DE RELLENO POR M², CON UN ESPESOR TOTAL DE 45 Y 50 MM. EN EL MARCAJE SE INCLUYEN LAS LÍNEAS DEL CAMPO Y LÍNEAS DE BANQUILLOS.

Mano de obra	4.25
Materiales	31.80

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

Coste Indirecto 6%	2.16
TOTAL PARTIDA	38.21

383 955.0005N1 t

CARGA Y TRANSPORTE A VERTEDERO AUTORIZADO DEL CÉSPED VIEJO QUE NO SE TENGA QUE REUTILIZAR.

Mano de obra	31.36
Maquinaria	8.40
Coste Indirecto 6%	2.39
TOTAL PARTIDA	42.15

384 955.0006N1 u

SUMINISTRO E INSTALCIÓN DE CAÑÓN DE RIEGO SECTORIAL DE RETORNO LENTO, MOD. SR3003 DE RAIN-BIRD O SIMILAR, CON JUEGO DE 6 TOBERAS DE PLÁSTICO GNS-3003T (14, 16, 18, 20, 22, 24 MM), I/ RETIRADA DE CAÑONES VIEJOS, MATERIAL DIVERSO NECESARIO PARA LA INSTALACIÓN DE LOS CAÑONES NUEVOS, MANO DE OBRA Y MAQUINARIA NECESARIA. LOS CAÑONES VIEJOS SE ALMACENARÁN EN LA INSTALACIÓN DEPORTIVA.

Mano de obra	24.95
Maquinaria	1,391.82
Materiales	100.00
Coste Indirecto 6%	91.01
TOTAL PARTIDA	1,607.78

385 955.0007N1 u

SUMINISTRO Y COLOCACIÓN DE DEPÓSITO DE HORMIGÓN ARMADO PREFABRICADO DE 20 M³ CON UNAS DIMENSIONES DE 4,90 X 2,45 X 2,1 M (LARGO, ANCHO, ALTO), CON UN ESPESOR DE PARED DE 110 M, I/ TAPA DE HORMIGÓN ARMADO EN LA PARTE SUPERIOR CON REGISTRO PARA ACCESO. TOTALMENTE INSTALADO.

Mano de obra	403.86
Maquinaria	229.97
Materiales	6,234.53
Coste Indirecto 6%	412.10
TOTAL PARTIDA	7,280.46

386 955.0008N1 PA.IA

PARTIDA ALZADA DE ABONO INTEGRO DE DESMONTAJE DE EQUIPOS DE RIEGO, TRASLADO A LUGAR DE ACOPIO DURANTE LA EJECUCIÓN DE LAS OBRAS Y MONTAJE EN UBICACIÓN DEFINITIVA.

Coste Indirecto 6%	10,000.00
TOTAL PARTIDA	10,000.00

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
387	955.0010N1	m	LEVANTADO DE CERRAMIENTO FORMADO POR MALLA ELECTROSOLDADA CON BASTIDOR DE PERFIL HUECO DE ACERO DE 200 CM DE ALTURA Y FIJADA MEDIANTE RECIBIDO EN OBRA DE FÁBRICA, CON MEDIOS MANUALES Y EQUIPO DE OXICORTE, Y CARGA MANUAL DEL MATERIAL DESMONTADO SOBRE CAMIÓN O CONTENEDOR.	
			Mano de obra	6.17
			Coste Indirecto 6%	0.37
			TOTAL PARTIDA	6.54
388	955.0011N1	ud	DESMONTAJE DE TORRE DE ILUMINACIÓN, DE ENTRE 10 Y 12 M DE ALTURA, CON RECUPERACIÓN DEL MATERIAL PARA SU POSTERIOR UBICACIÓN EN OTRO EMPLAZAMIENTO, SIENDO EL ORDEN DE EJECUCIÓN DEL PROCESO INVERSO AL DE SU INSTALACIÓN, Y CARGA MANUAL SOBRE CAMIÓN O CONTENEDOR. EL PRECIO INCLUYE EL DESMONTAJE DE LOS ACCESORIOS Y DE LOS ELEMENTOS DE FIJACIÓN, INCLUIDA LA DEMOLICIÓN DE LA CIMENTACIÓN.	
			Mano de obra	156.54
			Maquinaria	174.24
			Coste Indirecto 6%	19.85
			TOTAL PARTIDA	350.63
389	980.0100N1	ud	ARQUETA DE 60 X 60 DE DIMENSIONES INTERIORES CON TAPA CON MARCO METÁLICO Y ANAGRAMA DE LA DGT.	
			Mano de obra	21.72
			Maquinaria	2.57
			Materiales	102.32
			Coste Indirecto 6%	7.60
			TOTAL PARTIDA	134.21
390	980.0110N1	ud	ARQUETA DE EMPALME DE 80 X 80 DE DIMENSIONES INTERIORES.	
			Mano de obra	21.72
			Maquinaria	2.57
			Materiales	112.18
			Coste Indirecto 6%	8.19
			TOTAL PARTIDA	144.66
391	980.0120N3	m	CANALIZACIÓN PARA SISTEMAS ITS BAJO CALZADA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, EMBEBIDOS EN HORMIGÓN EN MASA HM-20.	
			Mano de obra	6.53
			Maquinaria	5.05
			Materiales	31.99

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%	2.61
			TOTAL PARTIDA	46.18
392	980.0125N3	m	CANALIZACIÓN PARA SISTEMAS ITS BAJO BERMA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, RECUBIERTOS DE ARENA.	
			Mano de obra	6.53
			Maquinaria	5.05
			Materiales	26.22
			Coste Indirecto 6%	2.27
			TOTAL PARTIDA	40.07
393	997.0001N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 KW, UN CAUDAL DE 12.900 M³/H, 200 PA Y RESTO DE CARACTERÍSTICAS SEGÚN PLANOS. INCLUYENDO PABELLÓN DE ASPIRACIÓN CON TELA METÁLICA PROTECTORA, SOPORTES DE FIJACIÓN, JUNTAS ELÁSTICAS EN ASPIRACIÓN E IMPULSIÓN, TORNILLERÍA Y ACCESORIOS DE FIJACIÓN. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	249.52
			Maquinaria	1,400.00
			Coste Indirecto 6%	98.97
			TOTAL PARTIDA	1,748.49
394	997.0001N2	Ud	SUMINISTRO, MONTEJE E INSTALACIÓN DE SONDA DE SOBREPRESIÓN, PARA CONTROLAR LA PRESIÓN EN SISTEMAS DE VENTILACIÓN EN PRESIÓN CONSTANTE. PERMITEN LA LECTURA DE LA DIFERENCIA DE PRESIONES ENTRE DOS PUNTOS Y LA TRANSFORMAN EN UNA SEÑAL ELÉCTRICA APTA PARA LOS DIFERENTES EQUIPOS DE CONTROL. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	40.87
			Materiales	310.00
			Coste Indirecto 6%	21.05
			TOTAL PARTIDA	371.92

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
395	997.0001N3	Ud	SUMINISTRO, MONTEJE E INSTALACIÓN DE REGULADOR DE TENSIÓN AUTOMÁTICO. CONTROLADO POR MICRO-PROCESADOR QUE PERMITE VARIAR LA VELOCIDAD DE GI-RO DE LOS VENTILADORES QUE SOPORTAN EN FUNCIÓN DE LAS SEÑALES ENVIADAS POR LA SONDA DE SOBREPRE-SIÓN. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	20.44
			Materiales.....	424.00
			Coste Indirecto 6%.....	26.67
			TOTAL PARTIDA.....	471.11
396	997.0002N1	ud	INSTALACIÓN DE TELECÁMARA COLOR TECNOLOGÍA IP FORMATO 1/3" CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO, ALTA RESO-LUCIÓN DE 4 MEGPIXEL, 480 LÍNEAS COLOR (520 B/N) DE RESOLUCIÓN HORIZONTAL, 5 MBPS, OBJETIVO C Y CS, AUTOIRIS, CONTROL REMOTO, CON ALIMENTACIÓN ELÉC-TRICA 220 VCA. I/ PEQUEÑO MATERIAL TOTALMENTE INS-TALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	12.26
			Materiales.....	1,125.00
			Coste Indirecto 6%.....	68.24
			TOTAL PARTIDA.....	1,205.50
397	997.0002N2	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE CÁMARA DE COLOR IP FULL HD, CON ANÁLISIS DE DETECCIÓN AUTO-MÁTICA DE INCIDENTES INTEGRADO, CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO. RESOLUCIÓN 1920X1080, 30 FPS Y CON FORMATO DE CODIFICACIÓN H 264, DE LA MARCA DE BOSCH O EQUIVALENTE, MODELO AVIOTEC IP STARLIGHT 8000. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	12.26
			Materiales.....	8,749.34
			Coste Indirecto 6%.....	525.70
			TOTAL PARTIDA.....	9,287.30

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
398	997.0003N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTO-LUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PE-LIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SE-GÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNI-LLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDI-CIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUN-CIONANDO. SEGÚN PPTP.	
			Mano de obra.....	6.45
			Maquinaria.....	34.60
			Coste Indirecto 6%.....	2.46
			TOTAL PARTIDA.....	43.51
399	997.0003N2	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTO-LUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PE-LIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SE-GÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNI-LLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDI-CIONES, DE DIMENSIONES 1500 X 1500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUN-CIONANDO. SEGÚN PPTP.	
			Mano de obra.....	6.45
			Maquinaria.....	75.23
			Coste Indirecto 6%.....	4.90
			TOTAL PARTIDA.....	86.58
400	997.0004N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTO-LUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PE-LIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMEN-SIONES 300 X 210 MM, I/ PEQUEÑO MATERIAL TOTAL-MENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	3.23
			Maquinaria.....	7.50
			Coste Indirecto 6%.....	0.64
			TOTAL PARTIDA.....	11.37

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

401 997.0005N1 ud

HIDRANTE DE COLUMNA SECA, ANTICHOQUE ANTIHIELO DE 6", CON 3 BOCAS, 1X4" (100) / 2X2 1/2" (70), CON RACORES SEGÚN NORMA UNE, TAPONES ANTIRROBO Y PROFUNDIDAD 485 MM, EN TOMA RECTA A LA RED. MEDIDA LA UNIDAD INSTALADA. CUMPLE CON LA NORMATIVA VIGENTE UNE, SEGÚN SE EXIGE EN EL REGLAMENTO DE INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS.

Mano de obra	74.67
Materiales	1,137.90
Coste Indirecto 6%	72.75
TOTAL PARTIDA	1,285.32

402 997.0006N1 ud

HIDRANTE ENTERRADO DE 4" DN100, CON 2 BOCAS DE 70 MM, CON RACORES Y TAPONES, EN ALUMINIO ESTAMPADO CON ARQUETA COMPLETA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	70.30
Maquinaria	76.68
Materiales	668.48
Coste Indirecto 6%	48.93
TOTAL PARTIDA	864.38

403 997.0007N1 ud

EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.

Mano de obra	9.99
Materiales	57.30
Coste Indirecto 6%	4.04
TOTAL PARTIDA	71.33

404 997.0008N1 ud

EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.

Mano de obra	1.96
Materiales	81.20
Coste Indirecto 6%	4.99
TOTAL PARTIDA	88.15

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

405 997.0009N1 ud

ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 93 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE Y EXTINTORES DE POLVO QUÍMICO, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	49.04
Materiales	458.00
Coste Indirecto 6%	30.42
TOTAL PARTIDA	537.46

406 997.0010N1 ud

ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 193 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE, 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	78.72
Materiales	456.60
Coste Indirecto 6%	32.12
TOTAL PARTIDA	567.44

407 997.0011N1 ud

ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.

Mano de obra	612.22
Materiales	940.10
Coste Indirecto 6%	93.14
TOTAL PARTIDA	1,645.46

408 997.0012N1 ud

ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 135 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	30.65
Materiales	1,162.70
Coste Indirecto 6%	71.60
TOTAL PARTIDA	1,264.95

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
409	997.0013N1	ud	ARMARIO DE CONTADORES DE DIMENSIONES ADECUADAS VACÍO, PREPARADO PARA ALOJAR EN SU INTERIOR UN EQUIPO DE MEDIDA MULTIFUNCIÓN CLASE 1, REGLETA DE COMPROBACIÓN DE 10 ELEMENTOS, CABLEADO Y TODOS LOS ACCESORIOS NECESARIOS, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	30.65
			Materiales	586.37
			Coste Indirecto 6%	37.02
			TOTAL PARTIDA	654.04
410	997.0014N1	ud	SISTEMA DE CONTROL PARA EL CABLE SENSOR, COMPUESTO POR UNIDAD MAESTRA DE CONTROL Y 2 UNIDADES ESCALVAS, VÍA INTERFACE RS-485 CON DISPLAY ALFANUMÉRICO LCD DE 2 X 40 CARACTERES Y TECLADO, CONTACTOS DE COMMUTACIÓN PARA ALARMA COMÚN Y FALLO, FUENTE DE ALIMENTACIÓN 230 VAC / 50 HZ, UPS 72 H (SAI 72 H), SUBRACK DE 19", ASÍ COMO EL RESTO DE ELEMENTOS DE CONTROL NECESARIOS PARA LA COMPLETA INSTALACIÓN DEL SISTEMA DE DETECCIÓN DE INCENDIOS, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SGÚN PPTP.	
			Mano de obra	64.53
			Materiales	18,744.00
			Coste Indirecto 6%	1,128.51
			TOTAL PARTIDA	19,937.04
411	997.0015N1	ud	REALIZACIÓN DE EMPALME DE SEGREGACIÓN DE FIBRA ÓPTICA, I/ MATERIAL NECESARIO PARA SU REALIZACIÓN.	
			Mano de obra	2,194.02
			Materiales	575.00
			Coste Indirecto 6%	166.14
			TOTAL PARTIDA	2,935.16
412	997.0016N1	ud	DRENAJE RED DE PCI, CON TUBERÍA DE ACERO DIN 2440 DE 1 1/4" DE DIÁMETRO Y VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO, SEGÚN PPTP.	
			Mano de obra	15.06
			Materiales	39.24
			Coste Indirecto 6%	3.26
			TOTAL PARTIDA	57.56

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
413	997.0017N1	ud	INSTALACIÓN DE CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS ADECUADO HASTA PARA 4 CONECTORES SC/PC, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	414.80
			Materiales	152.20
			Coste Indirecto 6%	34.02
			TOTAL PARTIDA	601.02
414	997.0018N1	m	INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	7.84
			Materiales	3.20
			Coste Indirecto 6%	0.66
			TOTAL PARTIDA	11.70
415	997.0019N1	ud	VENTOSA PARA RED DE COLUMNA SECA, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	15.06
			Materiales	242.85
			Coste Indirecto 6%	15.47
			TOTAL PARTIDA	273.38
416	997.0020N1	ud	TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA, TOTALMENTE TERMINADO.	
			Mano de obra	20.84
			Materiales	65.90
			Coste Indirecto 6%	5.20
			TOTAL PARTIDA	91.94

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

417 997.0021N1 m

TUBERÍA ACERO ESTIRADO SIN SOLDADURA, CLASE NEGRA, DIN-2440 DE 1 1/2" (DN-32), SIN CALORIFUGAR, COLOCADO EN INSTALACIÓN DE AGUA, INCLUSO P.P. DE UNIONES, SOPORTACIÓN, ACCESORIOS, PLATAFORMAS MÓVILES, MANO DE OBRA, PRUEBA HIDRÁULICA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	10.76
Materiales	11.98
Coste Indirecto 6%	1.36
TOTAL PARTIDA	24.10

418 997.0022N1 m³

GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 M3/H A 80 MCA, COMPUESTO POR UNA ELECTROBOMBA PRINCIPAL, UNA ELECTROBOMBA DE EMERGENCIA (55 KW), ELECTROBOMBA JOCKEY DE 4 KW, COLECTOR DE ASPIRACIÓN CON VÁLVULAS DE SECCIONAMIENTO, COLECTOR DE IMPULSIÓN CON VÁLVULAS DE CORTE Y RETENCIÓN, VÁLVULA PRINCIPAL DE RETENCIÓN Y COLECTOR DE PRUEBAS EN IMPULSIÓN, MANÓMETRO Y VÁLVULA DE SEGURIDAD, ACUMULADOR HIDRONEUMÁTICO DE 25 L. BANCADA METÁLICA Y CUADRO ELÉCTRICO DE MANIOBRAS SEGÚN NORMAS UNE (23-500-90), I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	735.66
Materiales	12,890.00
Coste Indirecto 6%	817.54
TOTAL PARTIDA	14,443.20

419 997.0023N1 ud

VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4" (DN-100), CON SUS JUNTAS, TORNILLOS, TUERCAS Y RACORES EN ACERO INOXIDABLE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	64.53
Materiales	151.00
Coste Indirecto 6%	12.93
TOTAL PARTIDA	228.46

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

420 997.0024N1 ud

NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS) O SIMILAR, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	124.44
Materiales	2,503.60
Coste Indirecto 6%	157.68
TOTAL PARTIDA	2,785.72

421 997.0025N1 ud

ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 MM. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	207.40
Materiales	1,133.00
Coste Indirecto 6%	80.42
TOTAL PARTIDA	1,420.82

422 997.0026N1 m

CABLE DE 4 X 2 X 0,9 MM EAPSP PARA LA CONEXIÓN DE LOS SENSORES DE NIVEL DEL DEPÓSITO DE ABASTECIMIENTO HASTA LA ERU.

Mano de obra	1.45
Materiales	1.43
Coste Indirecto 6%	0.17
TOTAL PARTIDA	3.05

423 997.0027N1 ud

SUMINISTRO E INSTALACIÓN DE CONVERSOR DE MEDIO ETHERNET (10BASE-T) O FAST ETHERNET (100BASE-TX) SOBRE FIBRA ÓPTICA MONOMODO (SM), FORMATO CAJA DE SOBREMESA O SOBRE CARRIL DIN, 3U DE ALTURA Y ALIMENTACIÓN ENTRE +9 Y 36 VCC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN. TOTALMENTE PROBADO Y FUNCIONANDO.

Mano de obra	419.42
Materiales	520.00
Coste Indirecto 6%	56.37
TOTAL PARTIDA	995.79

424 997.0028N1 ud

VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 150 MM (6"), PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	60.85
Maquinaria	29.04
Materiales	464.06
Coste Indirecto 6%	33.24

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	587.19
425	997.0029N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	
			Mano de obra.....	1,431.83
			Materiales.....	1,950.00
			Coste Indirecto 6%.....	202.91
			TOTAL PARTIDA.....	3,584.74
426	997.0030N1	ud	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.	
			Mano de obra.....	9.99
			Maquinaria.....	5.95
			Materiales.....	14.95
			Coste Indirecto 6%.....	1.85
			TOTAL PARTIDA.....	32.74
427	997.0031N1	ud	VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	8.60
			Materiales.....	13.55
			Coste Indirecto 6%.....	1.33
			TOTAL PARTIDA.....	23.48
428	997.0032N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 80 MM, PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	63.00
			Maquinaria.....	29.04
			Materiales.....	647.51
			Coste Indirecto 6%.....	44.37
			TOTAL PARTIDA.....	783.92

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
429	997.0033N1	ud	INSTALACIÓN DE COLUMNA DE 6 M PARA FOTÓMETRO DE BOCA NORTE, VELETA Y CORTAVIENTOS DE BOCA NORTE.	
			Mano de obra.....	250.48
			Maquinaria.....	159.60
			Materiales.....	647.00
			Coste Indirecto 6%.....	63.42
			TOTAL PARTIDA.....	1,120.50
430	997.0034N1	m	CABLE SENSOR CON CUBIERTA IGNÍFUGA Y SIN HALÓGENOS CON 8 M DE DISTANCIA ENTRE SENSOR, RANGO DE MEDIDA DE TEMPERATURAS: - 40ºC + 85ºC, RESOLUCIÓN DE 0,1ºC, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	4.90
			Materiales.....	17.77
			Coste Indirecto 6%.....	1.36
			TOTAL PARTIDA.....	24.03
431	997.0035N1	ud	TAPA DE FUNDICIÓN DE 1 X 1 M.	
			Mano de obra.....	35.95
			Materiales.....	256.20
			Coste Indirecto 6%.....	17.53
			TOTAL PARTIDA.....	309.68
432	997.0036N1	ud	SUMINISTRO E INSTALACIÓN DE VÁLVULA DE MARIPOSA PARA EMBRIDAR, DE DIÁMETRO 6" DE DIÁMETRO, PN=16 BAR, FORMADA POR CUERPO, DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS ES ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	42.85
			Maquinaria.....	43.56
			Materiales.....	172.98
			Coste Indirecto 6%.....	15.56
			TOTAL PARTIDA.....	274.95

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

433 997.0036N2 ud

VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 MM, CUERPO Y DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS EN ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	42.85
Maquinaria	43.56
Materiales	277.10
Coste Indirecto 6%	21.81
TOTAL PARTIDA	385.32

434 997.0037N1 ud

VÁLVULA REDUCTORA DE PRESIÓN DE LATÓN DE DIÁMETRO 1 1/4", INCLUSO ROSCADO A TUBO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

.

Mano de obra	64.53
Materiales	242.10
Coste Indirecto 6%	18.40
TOTAL PARTIDA	325.03

435 997.0038N1 ud

PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	28.50
Materiales	13.12
Coste Indirecto 6%	2.50
TOTAL PARTIDA	44.12

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

436 997.0039N1 m

LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T. CON CONDUCTOR AISLADO AL-RHZ1 18/30 KV DE 150 MM2 ENTUBADO, TOTALMENTE TERMINADO, INCLUYENDO EXCAVACIÓN Y TAPADO DE ZANJA, TUBO DE PVC DE 160 MM DE DIÁMETRO, BAJANTE POR EL APOYO Y CEGADO DEL TUBO CON ESPUMA DE POLIURETANO Y TERMINALES DE CONEXIÓN, INCLUYENDO PARTE PROPORCIONAL DE SECCIONADORES Y TODA LA INSTALACIÓN A REALIZAR EN EL APOYO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	6.62
Maquinaria	21.75
Materiales	72.84
Coste Indirecto 6%	6.07
TOTAL PARTIDA	107.27

437 997.0040N1 ud

CENTRAL ALGORÍTMICA DE DETECCIÓN DE INCENDIOS CON CAPACIDAD PARA CONTROLAR HASTA 250 EQUIPOS, FABRICADOS SEGÚN NORMATIVAS EN 54-2 Y EN-54-4:1998, CON DISPLAY GRÁFICO, MEMORIA DE EVENTOS NO VOLÁTIL, CON CAPACIDAD PARA MÁS DE 1000 REGISTROS, GESTIÓN TOTAL DE LISTADOS DE EVENTOS, RELOJ EN TIEMPO REAL, SALIDA INCORPORADAS DE EVACUACIÓN, ALARMA, PREALARMA Y AVERÍA, MODO DIA/NOCHE CONFIGURABLE AUTOMÁTICAMENTE MEDIANTE CALENDARIO PROGRAMABLE, MODOS DE TEST Y PRUEBAS INCORPORADOS PARA CADA ZONA, CAPACIDAD MULTILENGUAJE, CONTROL DE ACCESO RESTRINGIDO MEDIANTE LLAVE O CLAVE PROGRAMABLE, PUERTO DE IMPRESORA SERIE INCORPORADO, PUERTOS RS-232 Y RS-485 INDEPENDIENTES, PROVISTA DE FUENTE DE ALIMENTACIÓN DE 4 A Y DOS BATERÍAS DE 12 V / 7 AH Y UNIDAD DE CONTROL DE BUCLES ANALÓGICOS ENCHUFABLES EN LAS CENTRALES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	20.44
Materiales	16,243.70
Coste Indirecto 6%	975.85
TOTAL PARTIDA	17,239.99

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
438	997.0041N1	ud	CELDA DE INTERRUPTOR PASANTE (SECCIONAMIENTO), MODELO CGM36-CMIP Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, Y EMBARRADO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.76
			Maquinaria	62.27
			Materiales	4,212.50
			Coste Indirecto 6%	257.13
			TOTAL PARTIDA	4,542.66
439	997.0042N1	ud	CELDA DE MEDIDA, MODELO CGM36-CMM Ó SIMILAR, CONTENIENDO 3 TRAFOS DE T. RELACIÓN X/ 3 / 110/ 3 V, 50 VA, CLASE 0.5, 36 KV Y 3 TRAFOS I. RELACIÓN X / 5 A, 15 VA, CLASE 0.5, 36 KV, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.76
			Maquinaria	62.27
			Materiales	7,819.50
			Coste Indirecto 6%	473.55
			TOTAL PARTIDA	8,366.08
440	997.0043N1	ud	CELDA DE PROTECCIÓN GENERAL, CON INTERRUPTOR AUTOMÁTICO MOTORIZADO, MODELO CGM36-CMP-V O SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR AUTOMÁTICO III, VN = 36 KV, IN = 400 A, ICC = 16 KA, MANDO MOTOR, CON BOBINAS DE CIERRE Y DISPARO ASOCIADA AL RELÉ DE PROTECCIÓN Y CONTACTOS AUXILIARES. SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, RELÉ DE PROTECCIÓN, TRANSFORMADORES DE INTENSIDAD TOROIDALES PARA PROTECCIÓN, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	21.18

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Maquinaria	29.04
			Materiales	15,250.63
			Coste Indirecto 6%	918.05
			TOTAL PARTIDA	16,218.90
441	997.0044N1	ud	CELDA DE LÍNEA, MODELO CGM36-CML Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, SECCIONADOR DE PUESTA A TIERRA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.76
			Maquinaria	62.27
			Materiales	3,720.40
			Coste Indirecto 6%	227.61
			TOTAL PARTIDA	4,021.04
442	997.0045N1	ud	CELDA DE PROTECCIÓN DE TRANSFORMADOR DE POTENCIA, MODELO CGM36-CMP-F+RELE Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR ROTATIVO III, VN = 36 KV, IN = 400 A, MANDO MANUAL, PORTAFUSIBLES Y CARTUCHOS FUSIBLES DE 36 KV, RELÉ TRIFÁSICO DE PROTECCIÓN DE TRANSFORMADOR, SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.	
			Mano de obra	21.75
			Maquinaria	29.04
			Materiales	5,558.65
			Coste Indirecto 6%	336.57
			TOTAL PARTIDA	5,946.01

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

443 997.0046N1 ud

INTERCONEXIÓN DE CELDA DE MEDIA TENSIÓN CON TRANSFORMADOR DE POTENCIA, FORMADA POR CABLE DE AL DE AISLAMIENTO SECO DE 1 X 95 MM2, UN JUEGO DE 3 BORNAS ELASTIMOLD, REF: K-158 LR Y 3 CONOS DIFUSORES ELASTIMOLD, REF: MSC, PARA SER INSTALADOS EN LOS EXTREMOS DEL CABLE ANTERIOR Y TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.76
Maquinaria	29.04
Materiales	636.25
Coste Indirecto 6%	40.56
TOTAL PARTIDA	716.61

444 997.0047N1 ud

BORNAS DE CONEXIÓN DE MDEIA TENSIÓN APANTALLADAS, TIPO ELASTIMOLD O SIMILAR, PARA SU INSTALACIÓN EN LA ENTRADA DE LAS CELDAS DE LÍNEA, CON TODOS LOS ACCESORIOS NECESARIOS, I/ INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.76
Maquinaria	29.04
Materiales	108.54
Coste Indirecto 6%	8.90
TOTAL PARTIDA	157.24

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

445 997.0048N1 ud

EQUIPO DE SEGURIDAD QUE COMPRENDE:

- COMPROBADOR ÓPTICO Y ACÚSTICO DE AUSENCIA DE TENSIÓN AUTOVERIFICABLE DE 600 V C.C.
- VERIFICADOR DE AUSENCIA DE TENSIÓN LUMINOSO CON COMPROBADOR PIEZOELÉCTRICO INCORPORADO Y PÉRTIGA TELESCÓPICA
- BANQUETA AISLANTE PARA SERVICIO INTERIOR HASTA 36 KV
- EQUIPO DE PUESTA A TIERRA
- ESCALERA PARA TRABAJOS ELÉCTRICOS DE FIBRA
- GUANTES AISLANTES PARA TRABAJOS ELÉCTRICOS EN 36 KV, CON COFRET METÁLICO CONSERVACIÓN Y FIJACIÓN MURAL
- REANIMADOR PARA RESPIRACIÓN ARTIFICIAL CON CAJA DE PLÁSTICO HERMÉTICA
- MANTA IGNÍFUGA PARA EXTINCIÓN DE INCENDIOS
- PLACAS DE SEÑALIZACIÓN PARA RESPIRACIÓN ARTIFICIAL E INSTRUCCIONES DE AUXILIO EN CASO DE ACCIDENTE ELÉCTRICO
- PLACAS DE SEÑALIZACIÓN DE RIESGO ELÉCTRICO.

Mano de obra	10.76
Maquinaria	29.04
Materiales	647.58
Coste Indirecto 6%	39.50
TOTAL PARTIDA	697.84

446 997.0049N1 ud

TRANSFORMADOR DE POTENCIA DE 800 KVA, 25 / 0.42 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAPSULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	21.18
Maquinaria	464.64
Materiales	13,350.00
Coste Indirecto 6%	830.15
TOTAL PARTIDA	14,665.97

447 997.0050N1 ud

TRANSFORMADOR DE POTENCIA DE 1000 KVA, 25 / 0.40 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAPSULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESORIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	21.18
Maquinaria	464.64
Materiales	19,500.00
Coste Indirecto 6%	1,199.15
TOTAL PARTIDA	21,184.97

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
448	997.0051N1	ud	PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMADOR, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	21.51
			Materiales	255.25
			Coste Indirecto 6%	16.61
			TOTAL PARTIDA	293.37
449	997.0052N1	ud	EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC), PARA INCLUIR TRANSFORMADOR DE 800 Ó 1000 KVA, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	21.51
			Materiales	255.25
			Coste Indirecto 6%	16.61
			TOTAL PARTIDA	293.37
450	997.0053N1	ud	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.84
			Maquinaria	464.64
			Materiales	3,135.25
			Coste Indirecto 6%	217.24
			TOTAL PARTIDA	3,837.97

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
451	997.0054N1	ud	SISTEMA DE ALIMENTACIÓN INITERRUMPIDA SAI-01, TRIFÁSICO DE 40 KVA, 400/230 V, CON AUTONOMÍA DE 60 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.84
			Maquinaria	464.64
			Materiales	19,050.64
			Coste Indirecto 6%	1,172.17
			TOTAL PARTIDA	20,708.29
452	997.0055N1	ud	DEPÓSITO DE COMBUSTIBLE DE 3000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	
			Mano de obra	5,546.16
			Maquinaria	464.64
			Materiales	1,626.85
			Coste Indirecto 6%	458.26
			TOTAL PARTIDA	8,095.91
453	997.0056N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 102 KW / 127,5 KVA EN SERVICIO CONTINUO Y 112,5 KW / 141 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	64.23
			Maquinaria	464.64
			Materiales	46,395.22
			Coste Indirecto 6%	2,815.45
			TOTAL PARTIDA	49,739.54

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

454 997.0057N1 ud

GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 408 KW / 510 KVA EN SERVICIO CONTINUO Y 449 KW / 562 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	64.23
Maquinaria	464.64
Materiales	92,356.32
Coste Indirecto 6%	5,573.11
TOTAL PARTIDA	98,458.30

455 997.0058N1 ud

GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 530 KW / 662 KVA EN SERVICIO CONTINUO Y 582 KW / 728 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	64.23
Maquinaria	464.64
Materiales	104,487.42
Coste Indirecto 6%	6,300.98
TOTAL PARTIDA	111,317.27

456 997.0059N1 ud

CUADRO GENERAL DE BAJA TENSIÓN CGBT-1, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	1,042.00
Maquinaria	464.64
Materiales	90,447.00
Coste Indirecto 6%	5,517.22
TOTAL PARTIDA	97,470.86

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

457 997.0060N1 ud

CUADRO GENERAL DE BAJA TENSIÓN CGBT-2, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	1,042.00
Maquinaria	464.64
Materiales	87,017.00
Coste Indirecto 6%	5,311.42
TOTAL PARTIDA	93,835.06

458 997.0061N1 ud

CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO SAI 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	312.60
Materiales	689.58
Coste Indirecto 6%	60.13
TOTAL PARTIDA	1,062.31

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
459	997.0062N1	ud	CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO GRUPO 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	416.80
Materiales	1,358.25
Coste Indirecto 6%	106.50
TOTAL PARTIDA	1,881.55

460	997.0063N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 45 KW, 400 V Y 50 HZ, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	204.35
Materiales	1,906.50
Coste Indirecto 6%	126.65
TOTAL PARTIDA	2,237.50

461	997.0064N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 55 KW, 400 V Y 50 HZ, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	204.35
Materiales	2,185.00
Coste Indirecto 6%	143.36
TOTAL PARTIDA	2,532.71

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
462	997.0065N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 KVAR (5+(6X30)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	299.74
Maquinaria	464.64
Materiales	1,761.92
Coste Indirecto 6%	151.58
TOTAL PARTIDA	2,677.88

463	997.0066N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 KVAR (10+(4X50)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	299.74
Maquinaria	464.64
Materiales	3,369.32
Coste Indirecto 6%	248.02
TOTAL PARTIDA	4,381.72

464	997.0067N1	ud	PROYECTOR LED 103 W DALI, INTEGRADO POR 48 LED DE ALTO FLUJO LUMINOSO Y UN SISTEMA DE LENTES FLEXIBLE, IP66; CUERPO DE ALUMINIO QUE INTEGRA EL BLOQUE DE AUXILIARES ELECTRÓNICOS Y EL BLOQUE ÓPTICO, ACCESIBLES IN SITU. CIERRE CON MARCO DE ALUMINIO Y PROTECTOR DE VIDRIO, INCLUIDO LÁMPARA, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra.....	17.21
			Materiales.....	569.02
			Coste Indirecto 6%.....	35.17
			TOTAL PARTIDA.....	621.40

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
465	997.0067N2	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 40LED (89W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 40LED DE ALTA EMISIÓN ALIMENTADOS A 700 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 89W Y FLUJO INICIAL DE 14.600LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	
			Mano de obra.....	17.21
			Materiales.....	713.01
			Coste Indirecto 6%.....	43.81

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	774.03

466 997.0067N3 ud SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 60LED (140W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 60LED DE ALTA EMISIÓN ALIMENTADOS A 750 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 140W Y FLUJO INICIAL DE 22.700LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

Mano de obra.....	17.21
Materiales.....	762.01
Coste Indirecto 6%.....	46.75

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	825.97

467 997.0067N4 ud SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 80LED (212W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 80LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 212W Y FLUJO INICIAL DE 33.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 786MM. PESO: 16 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.

Mano de obra.....	17.21
Materiales.....	1,103.23
Coste Indirecto 6%.....	67.23
TOTAL PARTIDA.....	1,187.67

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
468	997.0067N5	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (396W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 800 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 396W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Mano de obra	17.21
Materiales	1,708.81
Coste Indirecto 6%	103.56
TOTAL PARTIDA	1,829.58

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
469	997.0067N6	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (448W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 448W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Mano de obra	17.21
Materiales	1,822.84
Coste Indirecto 6%	110.40
TOTAL PARTIDA	1,950.45

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
470	997.0067N7	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 240LED (624W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 240LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 624W Y FLUJO INICIAL DE 99.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1564MM. PESO: 32 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Mano de obra	17.21
Materiales	2,413.26
Coste Indirecto 6%	145.83

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA	2,576.30
471	997.0068N1	ud	SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W CON EQUIPO DE EMERGENCIA, CON DIFUSOR TRANSPARENTE DE POLICARBONATO FABRICADO EN UNA SOLA PIEZA, CON PRISMAS INTERIORES DE ALTA EFICACIA LUMINOSA Y CIERRES INVISIBLES. CUERPO DE LA LUMINARIA EN POLICARBONATO Y DIFUSOR EN CHAPA DE ACERO, LACADO EN BLANCO, GRADO DE PROTECCIÓN IP-66/IK07, EQUIPO DE ENCENDIDO ELECTRÓNICO, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Mano de obra	17.21
Materiales	368.82
Coste Indirecto 6%	23.16
TOTAL PARTIDA	409.19

472	997.0070N1	ud	SUMINISTRO DE LUMINARIA IP-66/IK08 LED 212 W PARA ALUMBRADO EXTERIOR, INCLUIDO LÁMPARA DE 80 LED, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, I/ ANCLAJE QUÍMICO PARA COLOCACIÓN DE LUMINARIA DE ALUMBRADO VIARIO EN ESTRUCTURAS O PUENTES. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	17.21
Materiales	244.52
Coste Indirecto 6%	15.70
TOTAL PARTIDA	277.43

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
473	997.0072N1	ud	SUMINISTRO DE CAJA TIPO TCT, CONTENIENDO EN SU INTERIOR 1 BASE 2P+T 16 A Y 1 BASE 3P+N+T 16 A Y UN MAGNETOTÉRMICO DE 16 A, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	81.74
			Materiales	282.80
			Coste Indirecto 6%	21.87
			TOTAL PARTIDA	386.41
474	997.0073N1	ud	DERECHOS DE ACOMETIDA A LA RED DE LA COMPAÑÍA ELÉCTRICA EN MEDIA TENSIÓN. (CUOTA DE ACCESO, DERECHOS DE ENGANCHE Y DERECHOS DE VERIFICACIÓN SEGÚN R.D.1955/2000, DE 1 DE DICIEMBRE, POR EL QUE SE REGULAN LAS ACTIVIDADES DE TRANSPORTE, DISTRIBUCIÓN, COMERCIALIZACIÓN, SUMINISTRO Y PROCEDIMIENTOS DE AUTORIZACIÓN DE INSTALACIONES DE ENERGÍA ELÉCTRICA). PRECIO FIJADO SEGÚN LA TARIFA VÁLIDA PARA EL AÑO 2006 SEGÚN R.D. 1556/2005, DE 28 DE DICIEMBRE.	
			Mano de obra	43.02
			Materiales	37,749.35
			Coste Indirecto 6%	2,267.54
			TOTAL PARTIDA	40,059.91
475	997.0074N1	ud	SUMINISTRO E INSTALACIÓN DE FOTÓMETRO DE ENTRADA A TÚNEL PARA REGULACIÓN AUTOMÁTICA DE ILUMINACIÓN SEGÚN LAS RECOMENDACIONES DE LA CEI, CON LAS SIGUIENTES CARACTERÍSTICAS, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP: ELEMENTO DETECTOR: FOTODIODO DE SILICIO CON FILTRO V ANGULO DE MEDIDA. 20º PRECISIÓN: MEJOR QUE +/- 3% SEÑAL DE SALIDA: 4 - 20 MA MONTAJE: SOBRE SOPORTE AJUSTABLE	
			Mano de obra	20.84
			Materiales	2,068.67
			Coste Indirecto 6%	125.37

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA	2,214.88
476	997.0075N1	ud	COLUMNA METÁLICA DE 12 M DE ALTURA, DE DIÁMETROS DE 60 MM, TRONCOCÓNICA, CONSTRUIDA EN CHAPA DE ACERO DE 3 MM DE ESPESOR, CON PUERTA, PLETINA PARA CUADRO Y TORNILLO PARA TOMA DE TIERRA. EL CONJUNTO ESTARÁ GALVANIZADO EN CALIENTE POR INMERSIÓN CON UN ESPESOR MÍNIMO DEL RECUBRIMIENTO DE 450 G/M2 (UNE-37-501-71), CUMPLIENDO CON EL PLIEGO DE CONDICIONES E INCLUYENDO TRANSPORTE Y MONTAJE Y EXCLUYENDO LA CIMENTACIÓN.	
			Mano de obra	250.48
			Maquinaria	161.46
			Materiales	607.80
			Coste Indirecto 6%	61.18
			TOTAL PARTIDA	1,080.92
477	997.0076N1	ud	REGULADOR DALI DE ALUMBRADO BASADO EN MICROPROCESADOR, PUERTO RS-485, INCLUSO CABLEADO DE INTERCONEXIÓN, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.84
			Materiales	2,048.92
			Coste Indirecto 6%	124.19
			TOTAL PARTIDA	2,193.95
478	997.0077N1	m	INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.	
			Mano de obra	1.86
			Materiales	1.48
			Coste Indirecto 6%	0.20
			TOTAL PARTIDA	3.54

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
479	997.0078N1	ud	BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL, COLOR AZUL, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	

Mano de obra	1.04
Materiales	307.89
Coste Indirecto 6%	18.54
TOTAL PARTIDA	327.47

480	997.0079N1	ud	CONSTRUCCIÓN DE PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS, DE 21 M DE LUZ, CON ESCALERA Y BARANDILLA, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.	

Mano de obra	721.56
Materiales	32,525.15
Coste Indirecto 6%	1,994.80
TOTAL PARTIDA	35,241.51

481	997.0080N1	ud	CONSTRUCCIÓN DE PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 M DE LUZ, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.	

Mano de obra	541.17
Materiales	30,486.65
Coste Indirecto 6%	1,861.67
TOTAL PARTIDA	32,889.49

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
482	997.0081N1	m	CONDUCTOR DE COBRE DESNUDO DE 50 MM2 INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	2.14
Materiales	1.12
Coste Indirecto 6%	0.20
TOTAL PARTIDA	3.46

483	997.0082N1	ud	REGISTRO DE COMPROBACIÓN Y TAPA INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Mano de obra	31.26
Materiales	6.50
Coste Indirecto 6%	2.27
TOTAL PARTIDA	40.03

484	997.0083N1	ud	PUENTE DE PRUEBA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	

Mano de obra	31.26
Materiales	16.10
Coste Indirecto 6%	2.84
TOTAL PARTIDA	50.20

485	997.0084N1	ud	SOLDADURA ALUMINOTÉRMICA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	

Mano de obra	3.54
Materiales	1.20
Coste Indirecto 6%	0.28
TOTAL PARTIDA	5.02

486	997.0085N1	ud	EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 X 6 MM, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	

Mano de obra	31.26
Materiales	80.00
Coste Indirecto 6%	6.68
TOTAL PARTIDA	117.94

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

487 997.0086N1 ud

CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	8.60
Materiales	35.80
Coste Indirecto 6%	2.66
TOTAL PARTIDA	47.06

488 997.0087N1 ud

DOBLE ESTACIÓN REMOTA UNIVERSAL ERU REDUNDANTE, DOBLE ENLACE ETHERNET, A UBICAR EN LOCALES TÉCNICOS SOBRE RACK DE 19", INCLUSO TARJETAS DE COMUNICACIONES CON BUS DE CAMPO PARA CONTROL DISTRIBUIDO, CANALES SERIE Y RED ETHERNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	8.60
Materiales	15,500.00
Coste Indirecto 6%	930.52
TOTAL PARTIDA	16,439.12

489 997.0088N1 ud

PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 18", INCLUIDO SISTEMA OPERATIVO WINDOWS 2000 X-PRO O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.76
Materiales	3,100.00
Coste Indirecto 6%	186.65
TOTAL PARTIDA	3,297.41

490 997.0089N1 ud

SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DEL TÚNEL COMPUESTO POR:
- SOFTWARE DE BASE DE DATOS ORACLE O SIMILAR
- SOFTWARE DE INTEGRACIÓN DE SISTEMAS (MIDDLEWARE) TIPO CORBA, J2E O SIMILAR
- SOFTWARE GESTOR DE REDUNDANCIA DE SERVIDORES
- SOFTWARE DE GESTIÓN DE LA RED DE COMUNICACIONES

TOTALMENTE INSTALADOS INCLUYENDO CONFIGURACIÓN, PUESTA EN MARCHA, DOCUMENTACIÓN Y FORMACIÓN DE TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL

Materiales	18,575.00
Coste Indirecto 6%	1,114.50
TOTAL PARTIDA	19,689.50

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

491 997.0090N1 ud

IMPRESORA LÁSER B/N, INTERFACE PARALELO, RESOLUCIÓN 4200X1200 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	5.38
Materiales	750.00
Coste Indirecto 6%	45.32
TOTAL PARTIDA	800.70

492 997.0091N1 ud

IMPRESORA INYECCIÓN DE TINTA COLOR, INTERFACE PARALELO, RESOLUCIÓN 600X600 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	5.38
Materiales	350.00
Coste Indirecto 6%	21.32
TOTAL PARTIDA	376.70

493 997.0092N1 ud

MOBILIARIO DE OPERADORES, COMPUESTOS POR ZONA DE TRABAJO Y ENCIMERA SOBRE ELEVADA PARA MONITORES, EN TABLERO PRENSADO DE 30 MM DE ESPESOR REVESTIDO DE LAMINADO ALTA PRESIÓN ANTIRREFLEXIVO Y ANTIRRAYADO, ESTRUCTURA INTERIOR A BASE DE CHASIS MODULAR DE ALUMINIO EXTRUSIONADO, ALTURA REGULABLE MEDIANTE POSICIONES FIJAS, SOPORTE MONITORES METÁLICO CON REJILLAS DE VENTILACIÓN, PUERTAS TRASERAS DOBLES, KIT DE ELECTRIFICACIÓN CON CANALETAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	19.36
Materiales	23,500.00
Coste Indirecto 6%	1,411.16
TOTAL PARTIDA	24,930.52

494 997.0093N1 m

SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	5.05
Materiales	1.80
Coste Indirecto 6%	0.41
TOTAL PARTIDA	7.26

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
495	997.0094N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 4X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	8.17
			Materiales	3.15
			Coste Indirecto 6%	0.68
			TOTAL PARTIDA	12.00
496	997.0095N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 20X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	12.26
			Materiales	8.20
			Coste Indirecto 6%	1.23
			TOTAL PARTIDA	21.69
497	997.0096N1	m	SUMINISTRO E INSTALACIÓN DE BANDEJA METÁLICA CON TAPA DE 200X60, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN Y TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	
			Mano de obra	40.87
			Maquinaria	29.76
			Materiales	65.00
			Coste Indirecto 6%	8.14
			TOTAL PARTIDA	143.77
498	997.0097N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 16 ENTRADAS DIGITALES, 1 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	
			Mano de obra	2,140.30
			Materiales	2,200.00
			Coste Indirecto 6%	260.42
			TOTAL PARTIDA	4,600.72

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
499	997.0098N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 3 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 2 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	
			Mano de obra	2,032.75
			Materiales	2,968.00
			Coste Indirecto 6%	300.05
			TOTAL PARTIDA	5,300.80
500	997.0099N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 4 TARJETAS DE 8 SALIDAS DIGITALES, 2 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2,054.25
			Materiales	3,852.00
			Coste Indirecto 6%	354.38
			TOTAL PARTIDA	6,260.63
501	997.0100N1	ud	SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 6 TARJETAS DE 16 ENTRADAS DIGITALES, 6 TARJETAS DE 16 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	4,396.76
			Materiales	4,445.00
			Coste Indirecto 6%	530.51
			TOTAL PARTIDA	9,372.27

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
502	997.0101N1	ud	SERVIDOR DE PROCESO CPU INTEL PENTIUM 4 - 3 GHZ O SUPERIOR, RAM 1 GB, TARJETA GRÁFICA XVGA 16 MB - RAM, CONTROLADORA UW SCSI RAID, 3 DISCOS SCSI 100 GB, DISQUETERA 1.44/120 MB, 2 TARJETAS LAN 100/1000 MBPS, MONITOR TFT 15", TECLADO, 1 RATÓN, 1 PORT CENTRONICS + 2 PORTS RS-232, UNIDAD MAGNETO-ÓP-TICA DE 1.3 GB INTERNA SCS, REGRABADORA CD-WRITER 9210I (32X8X4) SCSI, WINDOWS NT WORKSTATION 4.0 O SUPERIOR PREINSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	21.51
			Materiales	21,850.00
			Coste Indirecto 6%	1,312.29
			TOTAL PARTIDA	23,183.80
503	997.0102N1	ud	LICENCIA DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TO-TALMENTE INSTALADO.	
			Materiales	16,500.00
			Coste Indirecto 6%	990.00
			TOTAL PARTIDA	17,490.00
504	997.0103N1	ud	PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO TANTO EN CAMPO COMO EN SALA DE CONTROL.	
			Materiales	38,000.00
			Coste Indirecto 6%	2,280.00
			TOTAL PARTIDA	40,280.00
505	997.0104N1	ud	PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN, EX-PLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO, INCLUYENDO TO-DO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL ASÍ COMO INTEGRACIÓN DE LOS DIFERENTES SUBSISTEMAS QUE COMPONEN LAS INSTALACIONES DE GESTIÓN DEL TÚNEL.	
			Materiales	11,500.00
			Coste Indirecto 6%	690.00
			TOTAL PARTIDA	12,190.00
506	997.0105N1	ud	INGENIERÍA DE INTEGRACIÓN DE ERUS Y PLCS DE CON-TROL EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales	19,560.00
			Coste Indirecto 6%	1,173.60
			TOTAL PARTIDA	20,733.60

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
507	997.0106N1	ud	INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE IN-CENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTA-LADO.	
			Materiales	5,860.00
			Coste Indirecto 6%	351.60
			TOTAL PARTIDA	6,211.60
508	997.0107N1	ud	INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCEN-DIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales	4,650.00
			Coste Indirecto 6%	279.00
			TOTAL PARTIDA	4,929.00
509	997.0108N1	ud	INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN Y PANELES ALFANUMÉRICOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales	4,900.00
			Coste Indirecto 6%	294.00
			TOTAL PARTIDA	5,194.00
510	997.0109N1	ud	INTEGRACIÓN DE SISTEMA DE POSTES SOS, TOTALMENTE INSTALADO	
			Materiales	4,850.00
			Coste Indirecto 6%	291.00
			TOTAL PARTIDA	5,141.00
511	997.0110N1	ud	INTEGRACIÓN DE SISTEMA DE VÍDEO EN SISTEMA DE GES-TIÓN, TOTALMENTE INSTALADO, INCLUYENDO CONFIGU-RACIÓN.	
			Materiales	4,955.00
			Coste Indirecto 6%	297.30
			TOTAL PARTIDA	5,252.30
512	997.0111N1	ud	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales	4,857.00
			Coste Indirecto 6%	291.42
			TOTAL PARTIDA	5,148.42
513	997.0112N1	ud	INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA EN SISTE-MA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales	2,589.00
			Coste Indirecto 6%	155.34

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	2,744.34
514	997.0113N1	ud	INTEGRACIÓN DE SISTEMA DAI EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales.....	3,890.00
			Coste Indirecto 6%.....	233.40
			TOTAL PARTIDA.....	4,123.40
515	997.0114N1	ud	INTEGRACIÓN DE ANALIZADORES DE REDES EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales.....	2,655.00
			Coste Indirecto 6%.....	159.30
			TOTAL PARTIDA.....	2,814.30
516	997.0115N1	ud	INTEGRACIÓN ETDS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.	
			Materiales.....	19,100.00
			Coste Indirecto 6%.....	1,146.00
			TOTAL PARTIDA.....	20,246.00
517	997.0116N1	ud	CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA, TOTALMENTE INSTALADO.	
			Materiales.....	15,289.00
			Coste Indirecto 6%.....	917.34
			TOTAL PARTIDA.....	16,206.34
518	997.0117N1	ud	INSTALACIÓN EN MÁSTIL DE ANTENA DE CAPTACIÓN FM. INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	81.74
			Materiales.....	290.20
			Coste Indirecto 6%.....	22.32
			TOTAL PARTIDA.....	394.26

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
519	997.01187N1	ud	SUMINISTRO, MONTAJE E INSTALACIÓN DE SISTEMA DE DETECCIÓN AUTOMÁTICA DE PIEZAS SOBRECALENTADAS DE VEHÍCULOS DE LA MARCA SICK O EQUIVALENTE. INCORPORA CÁMARA TERMOGRÁFICA (INCLUYE CARCASA Y CALEFACCIÓN INTERIOR) Y SENSOR 2D-LIDAR PARA DETECTAR VEHÍCULOS SOBRECALENTADOS, INSTALADO EN ARCO DE SEÑALIZACIÓN ANTES DE LA ENTRADA EN EL TÚNEL PARA PODER DETENER EL VEHÍCULO SOBRECALENTADO Y NO PERMITIRLE EL ACCESO HASTA SU REFRIGERACIÓN. EL SISTEMA MIDE LA TEMPERATURA Y LAS DIMENSIONES DE CADA VEHÍCULO, DETERMINA LA CLASE DE VEHÍCUOLO Y GENERA UNA IMAGEN 3D, PERMITE IDENTIFICAR LA PARTE SOBRECALENTADA DEL VEHÍCULO: RUEDAS, MOTOR, CARGA, ESCAPES, ETC. INCLUYE ACCESORIOS DE MONTAJE, CARCASAS, SUJECCIONES, CONEXIONES, CAJAS DE REGISTRO, CABLEADO, CANALIZACIÓN, ETC. TOTALMENTE INSTALADO SEGÚN NORMATIVA VIGENTE Y A JUICIO DE LA DF.	
			Mano de obra.....	86.04
			Materiales.....	10,721.88
			Coste Indirecto 6%.....	648.48
			TOTAL PARTIDA.....	11,456.40
520	997.0118N1	m	CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	0.61
			Materiales.....	7.80
			Coste Indirecto 6%.....	0.50
			TOTAL PARTIDA.....	8.91
521	997.0119N1	ud	INSTALACIÓN DE AMPLIFICADOR SELECTIVO DE CANAL FM PARA 4 CANALES. CON INSERCIÓN DE MENSAJES PROCEDENTES DEL SISTEMA DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra.....	81.74
			Materiales.....	13,514.00
			Coste Indirecto 6%.....	815.74
			TOTAL PARTIDA.....	14,411.48
522	997.0120N1	ud	ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra	19.36
			Materiales	1,649.09
			Coste Indirecto 6%	100.11
			TOTAL PARTIDA	1,768.56
523	997.0121N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA DE RADIOCOMUNICACIONES, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	860.40
			Materiales	14,400.00
			Coste Indirecto 6%	915.62
			TOTAL PARTIDA	16,176.02
524	997.0122N1	m	CABLE COAXIAL RADIANTE 1 - 5/8", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.61
			Materiales	18.97
			Coste Indirecto 6%	1.17
			TOTAL PARTIDA	20.75
525	997.0123N1	ud	GRAPA PARA FIJACIÓN DE CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.61
			Materiales	2.88
			Coste Indirecto 6%	0.21
			TOTAL PARTIDA	3.70
526	997.0124N1	ud	CARGA FINAL PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.61
			Materiales	78.70
			Coste Indirecto 6%	4.76
			TOTAL PARTIDA	84.07
527	997.0125N1	ud	CONECTOR PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.61
			Materiales	129.30
			Coste Indirecto 6%	7.79
			TOTAL PARTIDA	137.70

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
528	997.0126N1	ud	INSTALACIÓN DE DUPLEXOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.44
			Materiales	303.70
			Coste Indirecto 6%	19.45
			TOTAL PARTIDA	343.59
529	997.0127N1	ud	SPLITTER DE 2 VÍAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.44
			Materiales	455.80
			Coste Indirecto 6%	28.57
			TOTAL PARTIDA	504.81
530	997.0128N1	ud	ESTACIÓN METEOROLÓGICA MARCA VAISALA MODELO ROSA/DM31 O SIMILAR PARA LA ADQUISICIÓN Y TRATAMIENTO DE DATOS, COMPUESTA POR: * CPU * INTERFACE PARA SENSORES DRI50 O SIMILAR * CHASIS DMF31 O SIMILAR * ARMARIO PARA FIJACIÓN A MÁSTIL Y ACCCESORIOS * SALIDA RS-232 * PROTOCOLO DGT * SENSORES DE TEMPERATURA Y HUMEDAD RELATIVA * CARCASA ANTIRRADIACIÓN PARA SENSOR DE TEMPERATURA Y HUMEDAD RELATIVA * SENSORES DE ESTADO DE SUPERFICIE DE CALZADA * CONJUNTOS DE MEDIDA DE VIENTO COMPUESTO POR: - SENSOR DE VELOCIDAD DE VIENTO - SENSOR DE DIRECCIÓN DE VIENTO - TRANSMISOR ANALÓGICO, INCLUSO CRUCETA * SENSORES DE VISIBILIDAD Y TIEMPO PRESENTE, RANGO DE MEDIDA DE 10/2.000 M. * SENSORES DE PRESIÓN ATMOSFÉRICA, RANGO DE MEDIDA DE 800/1060 HPA * SENSORES DE RADIACIÓN SOLAR INCLUYENDO INTERFACE PARA ROSA/DM31 O SIMILAR * BRAZOS SOPORTE CON ACCESORIOS TOTALMENTE MONTADA, INSTALADA Y PROBADA	
			Mano de obra	107.55
			Materiales	28,255.00
			Coste Indirecto 6%	1,701.75
			TOTAL PARTIDA	30,064.30

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

531 997.0129N1 ud SUMINISTRO E INSTALACIÓN DECOLUMNA METÁLICA PRECONEXIONADA DE 6 METROS PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	1,828.40
Maquinaria	914.18
Materiales	3,507.00
Coste Indirecto 6%	374.97
TOTAL PARTIDA	6,624.55

532 997.0130N1 ud SUMINISTRO E INSTALACIÓN DE ARMARIO CONEXIONADO PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	1,419.70
Materiales	1,679.00
Coste Indirecto 6%	185.92
TOTAL PARTIDA	3,284.62

533 997.0131N1 ud SWITCH GIGABIT ETHERNET, LAYER 2/3 SWITCHING, 24 PUERTOS 10/100 BASET, 2 PUERTOS 1000 MBPS, 2 PUERTOS LH-LC MINI GBIC (GIGABIT INTERFACE CONVERTER), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	25.81
Materiales	9,035.00
Coste Indirecto 6%	543.65
TOTAL PARTIDA	9,604.46

534 997.0132N1 ud SUMINISTRO PANEL DE PARCHEO DE 24 PUERTOS RJ-45, CLASE 6, CON ETIQUETAS FRONTALES Y TRASERAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	25.81
Materiales	238.90
Coste Indirecto 6%	15.88
TOTAL PARTIDA	280.59

535 997.0133N1 ud LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	2.15
Materiales	43.00
Coste Indirecto 6%	2.71
TOTAL PARTIDA	47.86

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

536 997.0134N1 ud PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO 2P+TT, INTERRUPTOR BIPOLAR 16 A 250 V CON PILOTO, PARA MONTAJE EN RACK 19", 2 U ALTURA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	9.03
Materiales	46.30
Coste Indirecto 6%	3.32
TOTAL PARTIDA	58.65

537 997.0135N1 m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	12.91
Materiales	3.60
Coste Indirecto 6%	0.99
TOTAL PARTIDA	17.50

538 997.0136N1 m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MULTITUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	12.91
Materiales	5.45
Coste Indirecto 6%	1.10
TOTAL PARTIDA	19.46

539 997.0137N1 ud PIG-TAIL FIBRA ÓPTICA MONOMODO, FUNDA PROTECCIÓN 3 MM, 2 M LONGITUD, CON CONECTOR ST, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	4.30
Materiales	18.25
Coste Indirecto 6%	1.35
TOTAL PARTIDA	23.90

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
540	997.0138N1	ud	SUMINISTRO E INSTALACIÓN DE BANDEJA DE EMPALME PARA FIBRA ÓPTICA, EXTRAÍBLE, FORMATO RACK 19", 1 U DE ALTURA, INCLUYENDO PANEL DE PARCHEO ADECUADO A 16 CONECTORES SC/PC, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	64.53
			Materiales	60.52
			Coste Indirecto 6%	7.50
			TOTAL PARTIDA	132.55
541	997.0139N1	ud	REALIZACIÓN DE EMPALME RECTO DE 16 FIBRAS ÓPTICAS, FINAL DE BOBINA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	
			Mano de obra	4,037.53
			Materiales	875.00
			Coste Indirecto 6%	294.75
			TOTAL PARTIDA	5,207.28
542	997.0140N1	ud	ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	1,183.05
			Materiales	1,771.38
			Coste Indirecto 6%	177.27
			TOTAL PARTIDA	3,131.70
543	997.0141N1	ud	PANEL CIEGO DE 2RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2.15
			Materiales	20.36
			Coste Indirecto 6%	1.35
			TOTAL PARTIDA	23.86

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
544	997.0142N1	ud	PANEL CIEGO DE 4RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2.15
			Materiales	39.72
			Coste Indirecto 6%	2.51
			TOTAL PARTIDA	44.38
545	997.0143N1	ud	PANEL CIEGO CON REJILLA DE 1RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2.15
			Materiales	18.54
			Coste Indirecto 6%	1.24
			TOTAL PARTIDA	21.93
546	997.0144N1	ud	SUMINISTRO DE LICENCIA DEL SISTEMA DAI CON 1 ENTRADA DE VIDEO, TOTALMENTE FUNCIONANDO.	
			Mano de obra	1,935.90
			Materiales	2,850.00
			Coste Indirecto 6%	287.15
			TOTAL PARTIDA	5,073.05
547	997.0145N1	ud	ANALIZADOR DEL SISTEMA DAI TIPO RACK INDUSTRIAL	
			Mano de obra	2,581.20
			Materiales	18,100.00
			Coste Indirecto 6%	1,240.87
			TOTAL PARTIDA	21,922.07
548	997.0146N1	ud	PUESTA EN MARCHA DEL SISTEMA DAI, Y FORMACIÓN DE OPERADORES.	
			Mano de obra	0.22
			Materiales	6,800.00
			Coste Indirecto 6%	408.01
			TOTAL PARTIDA	7,208.23

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
549	997.0147N1	ud	ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.	
			Mano de obra.....	12.91
			Materiales.....	57.00
			Coste Indirecto 6%.....	4.19
			TOTAL PARTIDA.....	74.10
550	997.0148N1	m²	RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.	
			Mano de obra.....	2.15
			Materiales.....	9.50
			Coste Indirecto 6%.....	0.70
			TOTAL PARTIDA.....	12.35
551	997.0149N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	
			Mano de obra.....	6.45
			Materiales.....	22.00
			Coste Indirecto 6%.....	1.71
			TOTAL PARTIDA.....	30.16

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
552	997.0150N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	
			Mano de obra.....	4.30
			Materiales.....	20.00
			Coste Indirecto 6%.....	1.46
			TOTAL PARTIDA.....	25.76
553	997.0151N1	m	ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.	
			Mano de obra.....	6.45
			Materiales.....	28.00
			Coste Indirecto 6%.....	2.07
			TOTAL PARTIDA.....	36.52
554	997.0152N1	m²	REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.	
			Mano de obra.....	4.30
			Materiales.....	16.00
			Coste Indirecto 6%.....	1.22
			TOTAL PARTIDA.....	21.52

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

555 997.0153N1 ud

ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.

Mano de obra	10.76
Materiales	40.00
Coste Indirecto 6%	3.05
TOTAL PARTIDA	53.81

556 997.0154N1 ud

CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.

Mano de obra	4.30
Materiales	21.00
Coste Indirecto 6%	1.52
TOTAL PARTIDA	26.82

557 997.0155N1 m

BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.

Mano de obra	2.15
Materiales	8.10
Coste Indirecto 6%	0.62
TOTAL PARTIDA	10.87

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

558 997.0156N1 m²

CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.

Mano de obra	6.45
Materiales	22.00
Coste Indirecto 6%	1.71
TOTAL PARTIDA	30.16

559 997.0157N1 m²

ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.

Mano de obra	4.30
Materiales	7.00
Coste Indirecto 6%	0.68
TOTAL PARTIDA	11.98

560 997.0158N1 m²

PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.

Mano de obra	2.32
Maquinaria	0.31
Materiales	7.29
Coste Indirecto 6%	0.60
TOTAL PARTIDA	10.52

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

561 997.0159N1 m

LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.

Mano de obra	6.79
Maquinaria	0.62
Materiales	16.58
Coste Indirecto 6%	1.44
TOTAL PARTIDA	25.43

562 997.0160N1 m²

CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

Mano de obra	12.91
Materiales	90.00
Coste Indirecto 6%	6.17
TOTAL PARTIDA	109.08

563 997.0161N1 m²

PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).

Mano de obra	10.76
Materiales	110.00
Coste Indirecto 6%	7.25
TOTAL PARTIDA	128.01

564 997.0162N1 m²

PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.

Mano de obra	1.08
Materiales	7.20
Coste Indirecto 6%	0.50
TOTAL PARTIDA	8.78

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

565 997.0163N1 ud

LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Mano de obra	6.45
Materiales	142.69
Coste Indirecto 6%	8.95
TOTAL PARTIDA	158.09

566 997.0164N1 ud

LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Mano de obra	18.28
Materiales	123.63
Coste Indirecto 6%	8.51
TOTAL PARTIDA	150.42

567 997.0165N1 ud

INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONEXIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Mano de obra	147.14
Materiales	29.39
Coste Indirecto 6%	10.59
TOTAL PARTIDA	187.12

568 997.0166N1 m

CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP

Mano de obra	0.09
Materiales	1.10
Coste Indirecto 6%	0.07

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	1.26
569	997.0167N1	m	CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra.....	0.06
			Materiales.....	0.85
			Coste Indirecto 6%.....	0.05
			TOTAL PARTIDA.....	0.96
570	997.0168N1	ud	SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra.....	16.13
			Materiales.....	74.10
			Coste Indirecto 6%.....	5.41
			TOTAL PARTIDA.....	95.64
571	997.0169N1	ud	SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra.....	10.76
			Materiales.....	21.11
			Coste Indirecto 6%.....	1.91
			TOTAL PARTIDA.....	33.78
572	997.0170N1	m	CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra.....	4.84
			Materiales.....	5.73
			Coste Indirecto 6%.....	0.63
			TOTAL PARTIDA.....	11.20

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
573	997.0171N1	ud	SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra.....	2.15
			Materiales.....	0.57
			Coste Indirecto 6%.....	0.16
			TOTAL PARTIDA.....	2.88
574	997.0172N1	PA.IA	PA DE ABONO INTEGRO DE REDACCIÓN DEL MANUAL DE EXPLOTACIÓN DEL TÚNEL CON EL ALCANCE DESCRITO EN PPTP	
			Coste Indirecto 6%.....	81,000.00
			TOTAL PARTIDA.....	81,000.00
575	997.0173N1	ud	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO 450 KVA, 400 V, 50 HZ, 1.500 R.P.M., CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO PARA 8 HORAS DE FUNCIONAMIENTO CONTINUO A PLENA CARGA, INCLUIDO TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.	
			Mano de obra.....	230.17
			Materiales.....	43,250.00
			Coste Indirecto 6%.....	2,608.81
			TOTAL PARTIDA.....	46,088.98
576	997.0174N1	ud	INSTALACIÓN DE ALUMBRADO DE EMERGENCIA CON LUMINARIAS FLUORESCENTES DOBLES DE 36 W CADA 20 M, CON UNO DE LOS TUBOS FLUORESCENTES CON AUTONOMÍA DE 1 HORA	
			Mano de obra.....	30.12
			Materiales.....	45.00
			Coste Indirecto 6%.....	4.51
			TOTAL PARTIDA.....	79.63
577	997.0175N1	ud	SUMINISTRO Y MONTAJE DE GENÓFONO CON PINZA DE CONEXIÓN MÓVIL. TOTALMENTE INSTALADO.	
			Mano de obra.....	187.15
			Materiales.....	3,750.00
			Coste Indirecto 6%.....	236.23
			TOTAL PARTIDA.....	4,173.38

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

578 997.0176N1 ud

SUMINISTRO Y MONTAJE DE UNA RED DE BIE'S DURANTE LA CONSTRUCCIÓN DE TÚNEL, DOTADO DE DEPÓSITO DE ACERO DE 40 M3 DE AGUA, GRUPO DE PROTECCIÓN CONTRA INCENDIOS Y BOCAS DE INCENDIOS EQUIPADAS, INCLUSO LAS TUBERÍAS Y ELEMENTOS DE ANCLAJE. TOTALMENTE INSTALADO

Mano de obra	230.17
Materiales	54,100.00
Coste Indirecto 6%	3,259.81
TOTAL PARTIDA	57,589.98

579 997.0177N1 ud

SUMINISTRO Y MONTAJE DE SISTEMA DE AIRE COMPRIMIDO COMPUESTO POR COMPRESORES EXENTOS DE ACEITE, CON UNA PRESIÓN DE TRABAJO DE 6 BARG Y UN CAUDAL DE 25.9 M3/MIN, 1 DEPÓSITO DE 6000 LITROS Y TUBERÍA DE ACERO GALVANIZADO DN-80. TOTALMENTE INSTALADO Y PUESTO EN SERVICIO

Mano de obra	230.17
Materiales	172,000.00
Coste Indirecto 6%	10,333.81
TOTAL PARTIDA	182,563.98

580 997.0178N1 ud

SUMINISTRO DE TRAJE IGNÍFUGO PARA EQUIPO DE SEGUNDA INTERVENCIÓN, INCLUSO CASCO, BOTAS Y GUANTES APTOS Y HOMOLOGADOS PARA UN EQUIPO DE SEGUNDA INTERVENCIÓN SEGÚN NORMA 531.

Mano de obra	4.30
Materiales	38.75
Coste Indirecto 6%	2.58
TOTAL PARTIDA	45.63

581 997.0179N1 ud

SUMINISTRO DE EQUIPO DE RESPIRACIÓN AUTÓNOMA, INCLUYENDO MÁSCARA, REGULADOR, TUBOS, MANÓMETROS, BOTELLA DE 6 LITROS A 300 BAR Y ANCLAJES.

Mano de obra	61.31
Materiales	1,095.00
Coste Indirecto 6%	69.38
TOTAL PARTIDA	1,225.69

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

582 997.0180N1 ud

ARMARIO PARA PUESTO DE INCENDIOS FABRICADO CON PERFILES HUECOS DE ACERO Y CHAPA DE ACERO GALVANIZADA DE 1 MM.DE ESPESOR, MEDIDAS EXTERIORES DE 1200 MM.DE LONGITUD, 400 MMDE ANCHO Y 1600 MM.DE ALTURA, CON DOS PUERTAS FRONTALES DE REJILLA METÁLICA DOTADAS DE CIERRE INDEPENDIENTE DE FACIL APERTURA (SIN LLAVE), SEGÚN DETALLE EN PLANOS, ANCLADO AL SUELO CON TACOS Y TORNILLOS METÁLICOS, INCLUSO MANOS DE PINTURA, ESMALTE ANTICORROSIVO HAMMERITE, TERMINADO E INSTALADO.

Mano de obra	20.44
Materiales	451.00
Coste Indirecto 6%	28.29
TOTAL PARTIDA	499.73

583 997.0181N1 ud

CONVERTIDOR RS-232 A RS-485, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	4.30
Materiales	38.75
Coste Indirecto 6%	2.58
TOTAL PARTIDA	45.63

584 997.0182N1 ud

SUMINISTRO E INSTALACIÓN DE CONVERTIDOR DE RS-422 A IP, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.

Mano de obra	387.19
Materiales	675.04
Coste Indirecto 6%	63.73
TOTAL PARTIDA	1,125.96

585 997.0184N1 ud

BARRERA AUTOMÁTICA DE BRAZO DE ALUMINIO DE 8 M. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	107.55
Materiales	620.00
Coste Indirecto 6%	43.65
TOTAL PARTIDA	771.20

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

586 997.0185N1 ud

ESPIRA ELECTROMAGNÉTICA SOTERRADA EN EL PAVIMENTO DE MEDIDA ESTANDAR 2X2 M, COMPUESTA POR REGATA, CABLE ESPECIAL DE 2,5 MM, RESINA SINTÉTICA DE RECUBRIMIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.76
Materiales	55.00
Coste Indirecto 6%	3.95
TOTAL PARTIDA	69.71

587 997.0186N1 ud

ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD PARA 8 DETECTORES DOBLES. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	602.30
Maquinaria	394.76
Materiales	485.00
Coste Indirecto 6%	88.92
TOTAL PARTIDA	1,570.98

588 997.0187N1 ud

SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES ST, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.

Mano de obra	21.51
Materiales	43.00
Coste Indirecto 6%	3.87
TOTAL PARTIDA	68.38

589 997.0188N1 ud

DE SEÑAL DE EXCESO DE GÁLIBO DE 2.500 X 1925 MM TOTALMENTE INSTALADA. SEGÚN PPTP

Mano de obra	107.55
Materiales	680.00
Coste Indirecto 6%	47.25
TOTAL PARTIDA	834.80

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

590 997.0189N1 ud

BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO, COMPUESTA POR PÓRTICO DE ACERO GALVANIZADO, PANELES DE BALIZAMIENTO REFLECTANTE TB-5 PINTADAS EN FRANJAS ROJAS Y BLANCAS, COLGADAS DEL PÓRTICO MEDIANTE CADENAS DE SUJECIÓN, INCLUYE CIMENTACIÓN, CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	505.50
Materiales	11,450.00
Coste Indirecto 6%	717.33
TOTAL PARTIDA	12,672.83

591 997.0190N1 ud

DETECTOR A MICROPROCESADOR DE VEHÍCULOS PARA LAZO ELECTROMAGNÉTICO, DE 2 CANALES, AUTOADAPTABLE Y AUTOAJUSTABLE. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.76
Materiales	355.00
Coste Indirecto 6%	21.95
TOTAL PARTIDA	387.71

592 997.0192N1 ud

SUMINISTRO E INSTALACIÓN DE CONVERSOR DE RS-485 A IP, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE PROBADO Y FUNCIONANDO.

Mano de obra	548.52
Materiales	590.00
Coste Indirecto 6%	68.31
TOTAL PARTIDA	1,206.83

593 997.0193N1 ud

SEÑAL ASPA-FLECHA DE EXTERIOR, DIMENSIONES 1000X1000X200 MM, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	129.06
Maquinaria	498.16
Materiales	2,700.00
Coste Indirecto 6%	199.63
TOTAL PARTIDA	3,526.85

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

594 997.0194N1 ud

PANEL STOP A X00 M + 2 PILOTOS ÁMBAR-ÁMBAR, ACTIVACIÓN POR CONTACTOS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	172.08
Maquinaria	249.08
Materiales	2,410.00
Coste Indirecto 6%	169.87
TOTAL PARTIDA	3,001.03

595 997.0195N1 ud

PANEL DE MENSAJE VARIABLE COMPUESTO POR PANEL ALFANUMÉRICO DE 3 FILAS POR 12 CARACTERES DE 300 MM Y DOS PANELES GRÁFICOS DE 1400X1400, IP-55, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	172.08
Maquinaria	747.24
Materiales	55,500.00
Coste Indirecto 6%	3,385.16
TOTAL PARTIDA	59,804.48

596 997.0196N1 ud

SEMÁFORO MODULAR DE TECNOLOGÍA LEDS DE 2 FOCOS DE 300 MM (2/300), INCLUYENDO PANTALLA DE CONTRASTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	43.02
Maquinaria	124.54
Materiales	810.00
Coste Indirecto 6%	58.65
TOTAL PARTIDA	1,036.21

597 997.0198N1 ud

SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	129.06
Maquinaria	498.16
Materiales	2,570.00
Coste Indirecto 6%	191.83
TOTAL PARTIDA	3,389.05

598 997.0199N1 ud

CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.

Materiales	15,100.00
Coste Indirecto 6%	906.00
TOTAL PARTIDA	16,006.00

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

599 997.0200N1 ud

ESTACIÓN REMOTA DE TÚNEL ERYT, 6 PUERTOS SERIE PARA PERIFÉRICOS RS232/RS422, 1 LÍNEA RS232 CON CC, ARMARIO IP55, FUENTE DE ALIMENTACIÓN. EQUIPADA CON 96 ENTRADAS DIGITALES, 64 SALIDAS DIGITALES Y 16 ENTRADAS ANALÓGICAS.

Mano de obra	40.87
Materiales	12,100.00
Coste Indirecto 6%	728.45
TOTAL PARTIDA	12,869.32

600 997.0201N1 ud

ORDENADOR SERVIDOR PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 15", INCLUIDO SISTEMA OPERATIVO WINDOWS XP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	40.87
Materiales	14,150.00
Coste Indirecto 6%	851.45
TOTAL PARTIDA	15,042.32

601 997.0202N1 m

SUMINISTRO E INSTALACIÓN DE CABLE DE 8 FIBRAS ÓPTICAS SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS, TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	6.45
Materiales	4.50
Coste Indirecto 6%	0.66
TOTAL PARTIDA	11.61

602 997.0203N1 m

SUMINISTRO E INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	10.11
Materiales	5.45
Coste Indirecto 6%	0.93
TOTAL PARTIDA	16.49

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
603	997.0204N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 6X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	6.45
			Materiales	5.03
			Coste Indirecto 6%	0.69
			TOTAL PARTIDA	12.17
604	997.0205N1	ud	SUMINISTRO E INSTALACIÓN DE CAJA DE FIBRA ÓPTICA PARA CONEXIÓN, INCLUSO PEQUEÑO MATERIAL Y FUNCIONANDO PERFECTAMENTE.	
			Mano de obra	344.17
			Materiales	248.50
			Coste Indirecto 6%	35.56
			TOTAL PARTIDA	628.23
605	997.0206N1	ud	SWITCH PARA POSTE SOS, TIPO FIBERGATE O SIMILAR, EN CABINA DE 19" DE 3U. INCLUYE FUENTE DE ALIMENTACIÓN DE 220VAC, DOS PUERTOS DE FO MONOMODO 100BASEFX (1300NM) PARA DISTANCIAS HASTA 40KM APROX. CONECTORES TIPO SC. SEIS PUERTOS FJ45 10/100 BATE T/TX, DOS LÍNEAS SERIE ASÍNCRONAS CON CONECTOR DB9, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	40.87
			Materiales	368.00
			Coste Indirecto 6%	24.53
			TOTAL PARTIDA	433.40
606	997.0207N1	ud	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, QUE CONECTA EL SWITCH CON LA CAJA DE FIBRA ÓPTICA, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.	
			Mano de obra	20.77
			Materiales	43.00
			Coste Indirecto 6%	3.83
			TOTAL PARTIDA	67.60
607	997.0208N1	ud	PLAFÓN LUMINOSO SOS/EXTINTOR DE MEDIDAS 600X500, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra	40.87
			Materiales	452.00
			Coste Indirecto 6%	29.57
			TOTAL PARTIDA	522.44
608	997.0209N1	ud	SUMINISTRO Y MONTAJE DE PUESTOS SOS ESCLAVO DE EXTERIOR, INCLUYENDO MICRÓFONO Y ALTAVOZ DOBLE PARA COMUNICACIÓN "MANOS LIBRES" CON LA CASETA DE CONTROL, PULSADOR DE LLAMADA, CARCASA DE PROTECCIÓN EN FIBRA DE VIDRIO, CON CONTACTO DE APERTURA DE PUERTA, COMPLETAMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	40.87
			Materiales	1,598.00
			Coste Indirecto 6%	98.33
			TOTAL PARTIDA	1,737.20
609	997.0210N1	ud	SUMINISTRO E INSTALACIÓN DE POSTE DE AUXILIO ESCLAVO (S.O.S.) INTERIOR EN ARMARIO METÁLICO TROPICALIZADO, CON COMPARTIMENTO PARA 2 EXTINTORES DE 6 KG., PULSADOR DE LLAMADA, MICRÓFONO, ALTAVOZ, CAJA DE CONEXIONES, ELECTRÓNICA, FIJACIÓN A ARMARIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	40.87
			Materiales	1,755.00
			Coste Indirecto 6%	107.75
			TOTAL PARTIDA	1,903.62
610	997.0211N1	ud	SUMINISTRO E INSTALACIÓN DE POSTE SOS MAESTRO DE INTERIOR. ELECTRÓNICA POSTE SOS/TCP/IP CON VIDEO FIBERGATE O SIMILAR. CONTROLADOR ELECTRÓNICO DE DOS POSTES SOS MAESTRO Y ESCLAVO. INCLUYE DOS PUERTOS 100 FX CON FIBRA MONOMODO PARA TOPOLOGÍA DE ANILLO, ELECTRÓNICA DE CONTROL DE AUDIO, ENTRADAS/SALIDAS DE CONTACTO Y UN ENCODER DE VIDEO MPEG4. 4 ENTRADAS DE VIDEO RG58. INSTALADO EN ARMARIO DE SOS DE ACERO INOXIDABLE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	40.87
			Materiales	3,654.00
			Coste Indirecto 6%	221.69
			TOTAL PARTIDA	3,916.56
611	997.0212N1	ud	CIMENTACIÓN DE POSTE SOS	
			Mano de obra	145.11
			Maquinaria	32.54

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Materiales	74.82
			Coste Indirecto 6%	15.15
			TOTAL PARTIDA	267.63
612	997.0213N1	ud	SUMINISTRO E INSTALACIÓN DE TECLADO DE CONTROL PARA VIDEO IP, CONECTADO AL PUESTO DE CONTROL, JOYSTICK CON EFECTO DE HALL DE TRES EJES X/Y: PARA MOVIMIENTO VERTICAL Y HORIZONTAL, Z: BOTÓN PARA EL ZOOM, 6 TECLAS DE ACCESO DIRECTO A APLICACIONES DEFINIDAS. DELIMITADOR CUADRADO, MOVIMIENTO HORIZONTAL/VERTICAL (XY): +/- 15°, ZOOM (Z): +/- 25°.	
			Mano de obra	1,118.55
			Materiales	3,650.00
			Coste Indirecto 6%	286.11
			TOTAL PARTIDA	5,054.66
613	997.0214N1	ud	SUMINISTRO E INSTALACIÓN DE SERVIDOR DE PROCESO HP Z200 WORKSTATION O SIMILAR CON EFFICIENT CHASSIS, MS WINDOWS 7 PROFESSIONAL 32-BIT OS, INTEL CORE I3-540 3.06 4MB/1333 DC CPU,4GB (2X2GB) DDR3-1333 ECC RAM, NVIDIA NVS 300 512MB GRAPHICS, 250GB SATA 7200 1ST HDD, USB STANDARD KEYBOARD, USB OPTICAL SCROLL MOUSE, 16X DVD+-RW SUPERMULTI SATA 1ST DRIVE, PANTALLA TFT 15", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2,839.40
			Materiales	20,265.00
			Coste Indirecto 6%	1,386.26
			TOTAL PARTIDA	24,490.66
614	997.0215N1	ud	SUMINISTRO E INSTALACIÓN DE GRABADOR DIGITAL IP VIDEO I-SCSI (6TB) EN FORMATO RACK 19", CON CONFIGURACIÓN RAID 5 Y 4 DISCOS 2TB, CON CAPACIDAD DE HASTA 150 CÁMARAS. INCLUYE SOFTWARE COMERCIAL DE GESTIÓN DE GRABACIÓN EN ESTACIÓN DE TRABAJO/SERVIDOR. PERMITE BÚSQUEDA DE MOVIMIENTO EN LAS IMÁGENES GRABADAS (UMBRAL DE MOVIMIENTO CONFIGURABLE), ROLLBACK Y BÚSQUEDA DE GRABACIONES POR CÁMARA, TIPO, FECHA Y HORA. PROBADO Y EN PERFECTO FUNCIONAMIENTO.	
			Mano de obra	2,333.90
			Materiales	28,954.00
			Coste Indirecto 6%	1,877.27
			TOTAL PARTIDA	33,165.17

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
615	997.0216N1	ud	SUMINISTRO E INSTALACIÓN DE DECODEC IP/PAL, CON 4-CANALES MPEG-4 DE VIDEO, CALIDAD DVD-VIDEO (D1, 25/30 FPS), DISEÑO COMPACTO PARA ALTA DENSIDAD DE VIDEO, DUPLEX SERIAL DATA, MJPEG WEB VIEWING, ADVANCED VIDEO OVERLAY (OSD), INTERFACE WEB PROTEGIDO POR CONTRASEÑA, SOPORTA SNMPV2 Y NTP, Y RANGO EXTENDIDO DE TEMPERATURA. TOTALMENTE PROBADO Y FUNCIONANDO.	
			Mano de obra	602.30
			Materiales	4,852.00
			Coste Indirecto 6%	327.26
			TOTAL PARTIDA	5,781.56
616	997.0217N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO CERRADO DE TELEVISIÓN, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.	
			Mano de obra	172.08
			Materiales	4,582.00
			Coste Indirecto 6%	285.24
			TOTAL PARTIDA	5,039.32
617	997.0218N1	ud	MONITOR DE COLOR DE ALTA RESOLUCIÓN 19", 700 LÍNEAS, PARA MONTAJE EN PANEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.76
			Materiales	1,285.20
			Coste Indirecto 6%	77.76
			TOTAL PARTIDA	1,373.72
618	997.0219N1	m	CABLE COAXIAL RG-59, TOTALMENTE TENDIDO, CONECTORIZADO Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	3.02
			Materiales	2.15
			Coste Indirecto 6%	0.31
			TOTAL PARTIDA	5.48
619	997.0220N1	ud	REALIZACIÓN DE EMPALMES EN TERMINAL DE 4 FIBRAS ÓPTICAS SM EN CUARTOS TÉCNICOS Y CCTV, INCLUSO MATERIAL PARA EMPALME DE FIBRA ÓPTICA Y PEQUEÑO MATERIAL, TOTALMENTE PROBADO Y FUNCIONANDO.	
			Mano de obra	709.85
			Materiales	350.00
			Coste Indirecto 6%	63.59
			TOTAL PARTIDA	1,123.44

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
620	997.0221N1	ud	SUMINISTRO E INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	3,871.90
			Materiales	4,896.50
			Coste Indirecto 6%	526.10
			TOTAL PARTIDA	9,294.50
621	997.0222N1	ud	SUMINISITRO E INSTALACIÓN DE CONVERSOR DE MEDIO IP A FIBRA ÓPTICA SM, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE PROBADO E INSTALADO.	
			Mano de obra	425.91
			Materiales	595.50
			Coste Indirecto 6%	61.28
			TOTAL PARTIDA	1,082.69
622	997.0223N1	m	SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.	
			Mano de obra	6.99
			Materiales	5.85
			Coste Indirecto 6%	0.77
			TOTAL PARTIDA	13.61
623	997.0224N1	ud	EMPALME DE FIBRA ÓPTICA, , INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.11
			Materiales	62.55
			Coste Indirecto 6%	4.36
			TOTAL PARTIDA	77.02
624	997.0225N1	m	CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	8.17
			Materiales	1.84
			Coste Indirecto 6%	0.60
			TOTAL PARTIDA	10.61

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
625	997.0226N1	ud	CABLE DE MANGUERA DE 17 M. PARA SEÑALES DE CÁMARA TV EN POSTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.11
			Materiales	230.49
			Coste Indirecto 6%	14.44
			TOTAL PARTIDA	255.04
626	997.0227N1	ud	ARMARIO PIÉ DE CÁMARA 800X600X200. INCLUSO PROTECCIONES ELÉCTRICAS Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	81.74
			Materiales	772.10
			Coste Indirecto 6%	51.23
			TOTAL PARTIDA	905.07
627	997.0228N1	ud	INSTALACIÓN DE CARCASA PARA CÁMARA + LENTE 262MM. 230VCA. CON CALEFACTOR. IP55. MODELO HSG 9853/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	5.81
			Materiales	245.00
			Coste Indirecto 6%	15.05
			TOTAL PARTIDA	265.86
628	997.0229N1	ud	COLUMNA DE BASE HORMIGONADA DE 15 M. PARA CÁMARA TV. (NO INCLUYE LA OBRA CIVIL)	
			Mano de obra	61.31
			Materiales	335.80
			Coste Indirecto 6%	23.83
			TOTAL PARTIDA	420.94
629	997.0230N1	ud	INSTALACIÓN DE SOPORTE DE PARED 30CM PARA CARCASAS DE CÁMARAS. MODELO LTC 9215/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	20.44
			Materiales	194.28
			Coste Indirecto 6%	12.88
			TOTAL PARTIDA	227.60

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
630	997.0231N1	ud	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM CON CORRECCIÓN DE INFRARROJOS. MODELO LTC 3674/20 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	5.81
			Materiales	225.00
			Coste Indirecto 6%	13.85
			TOTAL PARTIDA	244.66
631	997.0232N1	ud	INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM. MODELO LTC 3374/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	5.81
			Materiales	217.25
			Coste Indirecto 6%	13.38
			TOTAL PARTIDA	236.44
632	997.0233N1	ud	INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	12.26
			Materiales	3,854.00
			Coste Indirecto 6%	231.98
			TOTAL PARTIDA	4,098.24
633	997.0234N1	ud	SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES SC/PC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.	
			Mano de obra	20.97
			Materiales	43.00
			Coste Indirecto 6%	3.84
			TOTAL PARTIDA	67.81
634	997.0235N1	ud	PUENTE DE CONEXIÓN DE TIERRAS, TOTALMENTE INSTALADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	31.26
			Materiales	178.50
			Coste Indirecto 6%	12.59
			TOTAL PARTIDA	222.35

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
635	997.0236N1	ud	PICA DE ACERO COBRE DE 14,6 MM DE DIAMETRO Y 2000 MM DE LONGITUD, I/ GRAPA DE CONEXION Y RESTO DEL MATERIAL TOTALMENTE MONTADA Y CONEXIONADA.	
			Mano de obra	6.99
			Materiales	28.40
			Coste Indirecto 6%	2.12
			TOTAL PARTIDA	37.51
636	997.0237N1	m	BANDEJA PERFORADA DE 400 X 60 X 0,8 MM EN ACERO GALVANIZADO EN CALIENTE SEGÚN NORMA UNE-EN-ISO-1461, CUMPLE CON LA NORMA Y ENSAYO DIN 4102-12 DE RESISTENCIA AL FUEGO E90 A 1.000 ºC. CONTINUIDAD ELÉCTRICA GARANTIZADA MEDIANTE CABLE DE PROTECCIÓN DE COBRE DESNUDO DE 16 MM2 CON CONEXIONES A LA BANDEJA SEGÚN NORMATIVA, RESISTENTE A LA CORROSIÓN CLASE 7, CON 70 MICRAS DE ESPESOR DE GALVANIZADO EN CALIENTE, I/ MATERIAL AUXILIAR DE UNION, FIJACION Y ANCLAJE TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	10.22
			Materiales	22.68
			Coste Indirecto 6%	1.97
			TOTAL PARTIDA	34.87
637	997.0238N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 35) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	9.10
			Coste Indirecto 6%	0.58
			TOTAL PARTIDA	10.31
638	997.0239N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 50) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	15.66
			Coste Indirecto 6%	0.98
			TOTAL PARTIDA	17.27

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
639	997.0240N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 70) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	20.65
			Coste Indirecto 6%	1.28
			TOTAL PARTIDA	22.56
640	997.0241N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 95) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	28.10
			Coste Indirecto 6%	1.72
			TOTAL PARTIDA	30.45
641	997.0242N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 120) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	30.64
			Coste Indirecto 6%	1.88
			TOTAL PARTIDA	33.15
642	997.0243N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 185) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	43.12
			Coste Indirecto 6%	2.63
			TOTAL PARTIDA	46.38
643	997.0244N1	m	CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 240) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.63
			Materiales	43.25
			Coste Indirecto 6%	2.63

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA	46.51
644	997.0245N1	m	CONDUCTOR DE COBRE DESNUDO DE 35 MM2, TOTALMENTE INSTALADO, I/ PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	
			Mano de obra	0.63
			Materiales	1.45
			Coste Indirecto 6%	0.12
			TOTAL PARTIDA	2.20
645	997.0246N1	ud	TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A, TOTALMENTE TERMINADO.	
			Mano de obra	21.61
			Materiales	116.00
			Coste Indirecto 6%	8.26
			TOTAL PARTIDA	145.87
646	997.0247N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	4.54
			Coste Indirecto 6%	0.29
			TOTAL PARTIDA	5.04
647	997.0248N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	6.79
			Coste Indirecto 6%	0.42
			TOTAL PARTIDA	7.42
648	997.0249N1	m	CABLE DE COBRE DE 0.6/1 KV DE 3G2,5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	2.56
			Coste Indirecto 6%	0.17
			TOTAL PARTIDA	2.94

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
649	997.0250N1	m	CABLE DE COBRE DE 0.6/1 KV DE 5G6 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	8.20
			Coste Indirecto 6%	0.50
			TOTAL PARTIDA	8.91
650	997.0251N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 3G2.5 MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	5.13
			Coste Indirecto 6%	0.32
			TOTAL PARTIDA	5.66
651	997.0252N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G6 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	18.01
			Coste Indirecto 6%	1.09
			TOTAL PARTIDA	19.31
652	997.0253N1	m	CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G16 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	0.21
			Materiales	32.20
			Coste Indirecto 6%	1.94
			TOTAL PARTIDA	34.35

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
653	997.0254N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE, MOTOR DE 45 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	204.35
			Materiales	11,661.00
			Coste Indirecto 6%	711.92
			TOTAL PARTIDA	12,577.27
654	997.0255N1	ud	ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	5,850.00
			Coste Indirecto 6%	376.81
			TOTAL PARTIDA	6,657.01
655	997.0256N1	ud	ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	6,705.00
			Coste Indirecto 6%	428.11
			TOTAL PARTIDA	7,563.31
656	997.0257N1	ud	DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	5,400.00
			Coste Indirecto 6%	349.81
			TOTAL PARTIDA	6,180.01
657	997.0258N1	ud	VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	2,770.00
			Coste Indirecto 6%	192.01
			TOTAL PARTIDA	3,392.21

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
658	997.0259N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	2,942.00
			Coste Indirecto 6%	202.33
			TOTAL PARTIDA	3,574.53
659	997.0260N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	4,874.00
			Coste Indirecto 6%	318.25
			TOTAL PARTIDA	5,622.45
660	997.0261N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.	
			Mano de obra	430.20
			Materiales	1,934.00
			Coste Indirecto 6%	141.85
			TOTAL PARTIDA	2,506.05
661	997.0262N1	ud	ANEMÓMETRO DE HÉLICE PARA MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL, RANGO -25 : +25 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	204.35
			Materiales	2,341.60
			Coste Indirecto 6%	152.76
			TOTAL PARTIDA	2,698.71
662	997.0263N1	ud	ANEMÓMETRO DE CAZOLETA PARA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR, RANGO 0 - 40 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	204.35
			Materiales	2,605.00
			Coste Indirecto 6%	168.56
			TOTAL PARTIDA	2,977.91

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
663	997.0264N1	ud	SUMINISTRO E INSTALACIÓN DE ORDENADOR DE SUPERVISIÓN PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO	
			Mano de obra	204.35
			Materiales	12,125.00
			Coste Indirecto 6%	739.76
			TOTAL PARTIDA	13,069.11
664	997.0265N1	ud	SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.	
			Mano de obra	161.33
			Materiales	3,850.00
			Coste Indirecto 6%	240.68
			TOTAL PARTIDA	4,252.01
665	997.0266N1	ud	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	1,204.60
			Materiales	6,895.00
			Coste Indirecto 6%	485.98
			TOTAL PARTIDA	8,585.58
666	997.0267N1	ud	ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	1,161.58
			Materiales	471.00
			Coste Indirecto 6%	97.95
			TOTAL PARTIDA	1,730.53

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
667	997.0268N1	m	CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra	7.10
			Materiales	1.16
			Coste Indirecto 6%	0.50
			TOTAL PARTIDA	8.76
668	997.0269N1	ud	SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	1,979.00
			Materiales	7,263.00
			Coste Indirecto 6%	554.52
			TOTAL PARTIDA	9,796.52
669	997.0270N1	ud	SUMINISTRO E INSTALACIÓN DE BOCINA DE EVACUACIÓN DE 25 W, 100 V, 425 X 355 MM, IP65 SEGÚN IEC 60529, GRIS CLARO RAL 7035, MODELO LBC 3482/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	134.01
			Maquinaria	36.57
			Materiales	137.00
			Coste Indirecto 6%	18.45
			TOTAL PARTIDA	326.03
670	997.0271N1	ud	SUMINISTRO E INSTALACIÓN DE PROYECTOR CILÍNDRICO BIDIRECCIONAL EVACUACIÓN, 10W, ABS, IP65 SEGÚN IEC 60529, BLANCO RAL 9010, 100V, MODELO LP1-BC10E-1 DE BOSCH, O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	72.93
			Maquinaria	17.01
			Materiales	173.54
			Coste Indirecto 6%	15.81
			TOTAL PARTIDA	279.29

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
671	997.0272N1	m	SUMINISTRO, MONTAJE E INSTALACIÓN DE CABLE DE COBRE PARALELO DE 2X4 MM2 (ROJO-NEGRO) PARA AUDIO, CLASE CPR: DCA S1, D0, A1 Y CUMPLIENDO CON LAS NORMATIVAS UNE 50265-2-1, UNE 50265-2-2 Y UNE 50266-2-2. NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE CAJAS DE DERIVACIÓN, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2.80
			Maquinaria	1.28
			Materiales	2.30
			Coste Indirecto 6%	0.38
			TOTAL PARTIDA	6.76
672	997.0273N1	ud	SUMINISTRO Y MONTAJE DE CAJA DE DERIVACIÓN DE PVC-M1 DE 90X90X42 MM, CON P.P. DE CABLE DE MEGAFONÍA 2,5 MM² HASTA ALTAVOZ O PROYECTOR SONORO, CLEMAS DE CONEXIÓN, Y ACCESORIOS DE FIJACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra	2.80
			Maquinaria	1.28
			Materiales	5.62
			Coste Indirecto 6%	0.58
			TOTAL PARTIDA	10.28
673	997.0274N1	ud	ARQUETA DE REGISTRO DE 150X100 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.	
			Mano de obra	301.15
			Materiales	73.03
			Coste Indirecto 6%	22.45
			TOTAL PARTIDA	396.63
674	997.0275N1	ud	ARQUETA DE REGISTRO DE 80X50 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.	
			Mano de obra	151.65
			Materiales	73.03
			Coste Indirecto 6%	13.48
			TOTAL PARTIDA	238.16

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
675	997.0276N1	ud	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 80X80 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.	
			Mano de obra	182.84
			Materiales	37.36
			Coste Indirecto 6%	13.21
			TOTAL PARTIDA	233.41
676	997.0277N1	ud	ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 50X50 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.	
			Mano de obra	52.20
			Maquinaria	7.09
			Materiales	60.20
			Coste Indirecto 6%	7.17
			TOTAL PARTIDA	126.65
677	997.0278N1	ud	ARQUETA TIPO III DE PASO, DERIVACION O TOMA DE TIERRA CONSTRUIDA CON FABRICA DE LADRILLO ENFOSCADA INTERIORMENTE CON M-450, SEGUN PLANOS., INCLUSO MOVIMIENTO DE TIERRAS Y TAPA DE FUNDICION, SITUADA EN ACERA DE NUEVA CONSTRUCCION DE 0.20 M DE ESPESOR, COMPLETAMENTE TERMINADA	
			Mano de obra	50.61
			Maquinaria	13.30
			Materiales	3,595.95
			Coste Indirecto 6%	219.59
			TOTAL PARTIDA	3,879.46
678	997.0279N1	m	CANALIZACIÓN SUBTERRÁNEA HORMIGONADA, DE DIMENSIONES 0,40X0,80 M. INCLUSO MOVIMIENTO DE TIERRAS CON ZANJA EXCAVADA A MAQUINA, LECHO DE ARENA DE RÍO, CINTA SEÑALIZADORA Y 6 TUBOS DE PVC 110 MM DE DIÁMETRO, COMPLETAMENTE TERMINADA.	
			Mano de obra	0.61
			Maquinaria	15.05
			Materiales	58.14
			Coste Indirecto 6%	4.43
			TOTAL PARTIDA	78.23

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
679	997.0280N1	m	TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 MM. DE DIÁMETRO EXTERIOR, INCLUIDA P.P. DE MANGUITOS, TAPONES Y SELLADO IGNÍFUGO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO HORMIGONADO, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP	
			Mano de obra	0.22
			Materiales	3.89
			Coste Indirecto 6%	0.25
			TOTAL PARTIDA	4.36
680	997.0281N1	ud	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE NO2, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	13.98
			Materiales	1,605.40
			Coste Indirecto 6%	97.16
			TOTAL PARTIDA	1,716.54
681	997.0282N1	ud	SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE CO, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	60.23
			Materiales	972.50
			Coste Indirecto 6%	61.96
			TOTAL PARTIDA	1,094.69
682	997.0283N1	m	SUMINISTRO E INSTALACIÓN DE CABLE DE 2X2X0.9 MM, ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	6.45
			Materiales	2.15
			Coste Indirecto 6%	0.52
			TOTAL PARTIDA	9.12

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

683 997.0284N1 m

SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, ARMADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	6.02
Materiales	1.80
Coste Indirecto 6%	0.47
TOTAL PARTIDA	8.29

684 997.0285N1 ud

COMPUERTA DE SOBREPRESIÓN CON MARCO EN U DE ACERO GALVANIZADO Y LAMAS EN ALUMINIO PERFILADO DE 600X600 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	81.74
Materiales	178.90
Coste Indirecto 6%	15.64
TOTAL PARTIDA	276.28

685 997.0286N1 ud

COMPUERTA CORTAFUEGO DESTINADA A AISLAR LOS SECTORES DE INCENDIO DE 600X600 MM. CON CARCASA Y ELEMENTOS DE ACCIONAMIENTO DE ACERO GALVANIZADO, Y UNA RESITENCIA AL FUEGO RF-120, INSTALADA CON MARCO DE ANCLAJE, I/FIJACIÓN Y RECIBIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	81.74
Materiales	296.30
Coste Indirecto 6%	22.68
TOTAL PARTIDA	400.72

686 997.0287N1 ud

OPACÍMETROS POR DISPERSIÓN DE LUZ CON ÁNGULO DE 30 GRADOS, CON DOBLE HAZ LUMINOSO, SISTEMA DE MEDIDA DE AUTOCALIBRACIÓN CON CONTROL CONTINUO DEL PUNTO CERO Y VALOR 100%, MARGEN DE MEDIDA 0 ... 15 X 0,001 /M INCLUIDO BARRA DE VERIFICACIÓN, CON CONTROL POR MICROORDENADOR, SALIDA POR BUS ORNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	16.34
Materiales	8,527.00
Coste Indirecto 6%	512.60
TOTAL PARTIDA	9,055.94

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE

687 997.0288N1 ud

PUERTA METÁLICA CORTAFUEGOS DE DOS HOJAS PIVOTANTES DE 900X2000 MM HOMOLOGADA RF-120, CONSTRUIDA CON DOS CHAPAS DE ACERO ELECTROCINCADO DE 0,80 MM. DE ESPESOR Y CÁMARA INTERMEDIA DE MATERIAL AISLANTE IGNÍFUGO, SOBRE CERCO ABIERTO DE CHAPA DE ACERO GALVANIZADO DE 1,20 MM Y DOTADA DE MIRILLA CIRCULAR. DE ESPESOR, CON SIETE PATILLAS PARA FIJACIÓN A OBRA, CERRADURA EMBUTIDA Y CREMONA DE CIERRE AUTOMÁTICO, SISTEMA DE APERTURA ANTIPÁNICO, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, INCLUSO ACABADO EN PINTURA EPOXI POLIMERIZADA AL HORNO. CON DOBLE PUERTA PEATONAL, LA DERECHA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO TÚNEL-GALERÍA , LA IZQUIERDA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO GALERÍA-TÚNEL. SEGÚN PPTP

Mano de obra	204.35
Materiales	3,905.00
Coste Indirecto 6%	246.56
TOTAL PARTIDA	4,355.91

688 997.0289N1 ud

SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1663 N DE EMPUJE, MOTOR DE 55 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	204.35
Materiales	12,350.00
Coste Indirecto 6%	753.26
TOTAL PARTIDA	13,307.61

689 997.0290N1 ud

DE CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.

Mano de obra	40.87
Materiales	458.00
Coste Indirecto 6%	29.93
TOTAL PARTIDA	528.80

690 997.0291N1 m²

FORMACIÓN DE ESCALERA SOBRE LOSA, TOTALMENTE TERMINADA.

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra	156.30
			Materiales	207.00
			Coste Indirecto 6%	21.80
			TOTAL PARTIDA	385.10
691	997.0292N1	m	JUNTA EN MUROS.	
			Mano de obra	22.92
			Materiales	19.65
			Coste Indirecto 6%	2.55
			TOTAL PARTIDA	45.12
692	997.0293N1	m	PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 M, TOTALMENTE COLOCADA EN OBRA.	
			Mano de obra	23.13
			Materiales	19.65
			Coste Indirecto 6%	2.57
			TOTAL PARTIDA	45.35
693	997.0294N1	ud	ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL, HASTA UNA LONGITUD DE 25 M, EN TERRENO DURO, CON ROTURA DE PAVIMENTO POR MEDIO DE COMPRESOR, EXCAVACIÓN MECÁNICA, TUBO DE HORMIGÓN CENTRIFUGADO D=25 CM, RELLENO Y APISONADO DE ZANJA CON TIERRA PROCEDENTE DE LA EXCAVACIÓN, INCLUYE LIMPIEZA Y TRANSPORTE DE TIERRAS SOBRANTES A PIE DE CARGA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	62.52
			Materiales	503.60
			Coste Indirecto 6%	33.97
			TOTAL PARTIDA	600.09
694	997.0295N1	ud	ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL CON TUBERÍA DE ACERO GALVANIZADO DE 1" DE DIÁMETRO CON T REDUCCIÓN DE 1 1/4" A 1", VÁLVULA DE 1/4 DE VUELTA Y VÁLVULA DE FLOTADOR, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	41.68
			Materiales	104.65
			Coste Indirecto 6%	8.78
			TOTAL PARTIDA	155.11

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
695	997.0301N1	u	SUMINISTRO, MONTAJE E INSTALACIÓN DE PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 LM (61 W). INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.	
			Mano de obra	12.06
			Materiales	138.49
			Coste Indirecto 6%	9.03
			TOTAL PARTIDA	159.58
696	997.0302N1	m	CABLEADO HORIZONTAL DE PAR TRENZADO, FORMADA POR CABLE FTP DE 4 PARES, CATEGORÍA 6 PVC, EN MONTAJE EN CANAL O BANDEJA (NO INCLUIDA), INSTALADO, MONTAJE Y CONEXIONADO. INCLUYE PARTE PROPORCIONAL DE CANALIZACIÓN BAJO TUBO CORRUGADO LH DE DIÁMETRO 32 PARA TRAMOS DEONDE NO EXISTA BANDEJA. CONFORME A ISO/IEC 11801:2017, IEC 61156-5:2020, UNE-EN 50173-1:2018, UNE-EN 50288-6-1:2013. MATERIALES CON MARCADO CE Y DDP (DECLARACIÓN DE PRESTACIONES) SEGÚN REGLAMENTO (UE) 305/2011.	
			Mano de obra	2.15
			Materiales	3.90
			Coste Indirecto 6%	0.36
			TOTAL PARTIDA	6.41
697	997.0715N1	ud	SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	
			Mano de obra	2.15
			Materiales	7,643.00
			Coste Indirecto 6%	458.71
			TOTAL PARTIDA	8,103.86

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
698	997.0811N1	ud	REALIZACIÓN DE FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA PARA FIBRA ÓPTICA DE CONEXIÓN A EQUIPOS. INCLUSO EQUIPOS PARA PRUEBAS, MANO DE OBRA, INFORME DE PRUEBAS, PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	
			Mano de obra	20.44
			Materiales	89.36
			Coste Indirecto 6%	6.59
			TOTAL PARTIDA	116.39
699	999.0256N1	PA.IA	PA DE ABONO ÍNTEGRO PARA LA EJECUCIÓN DE MEDIDAS COMO CONSECUENCIA DEL INFORME DE AUDITORÍA DE SEGURIDAD VIARIA EN LA FASE INICIAL EN SERVICIO	
			Coste Indirecto 6%	5,000.00
			TOTAL PARTIDA	5,000.00
700	999.0257N1	PA.IA	PARTIDA ALZADA DE ABONO ÍNTEGRO DE LIMPIEZA Y TERMINACIÓN DE LAS OBRAS, SEGÚN O.C.15/2003	
			Coste Indirecto 6%	60,000.00
			TOTAL PARTIDA	60,000.00
701	999.0274N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO	
			Mano de obra	123.33
			Materiales	59.12
			Coste Indirecto 6%	10.95
			TOTAL PARTIDA	193.40
702	999.0275N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO, I/ CIMENTACIÓN Y PARTE PROPORCIONAL DE ARQUETAS, CANALIZACIONES Y CABLEADO	
			Mano de obra	246.66
			Materiales	1,625.00
			Coste Indirecto 6%	112.30
			TOTAL PARTIDA	1,983.96
703	999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	
			Mano de obra	0.42
			Materiales	1.01

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Coste Indirecto 6%	0.09
			TOTAL PARTIDA	1.52
704	999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	
			Mano de obra	20.56
			Materiales	56.52
			Coste Indirecto 6%	4.62
			TOTAL PARTIDA	81.70
705	999.0279N1	ud	DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	
			Mano de obra	28.78
			Materiales	1,138.10
			Coste Indirecto 6%	70.01
			TOTAL PARTIDA	1,236.89
706	999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV	
			Mano de obra	1.64
			Materiales	3.11
			Coste Indirecto 6%	0.29
			TOTAL PARTIDA	5.04
707	999.0281N1	ud	TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD	
			Mano de obra	12.33
			Materiales	140.00
			Coste Indirecto 6%	9.14
			TOTAL PARTIDA	161.47
708	999.0282N1	m	SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	
			Mano de obra	1.42
			Materiales	6.26
			Coste Indirecto 6%	0.46
			TOTAL PARTIDA	8.14
709	999.0303N1	ud	VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA	
			Mano de obra	5.93
			Materiales	77.57
			Coste Indirecto 6%	5.01

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			TOTAL PARTIDA.....	88.51
710	999.0304N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTILVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	
			Mano de obra.....	52.65
			Maquinaria.....	43.56
			Materiales.....	2,382.46
			Coste Indirecto 6%.....	148.72
			TOTAL PARTIDA.....	2,627.39
711	999.0305N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTILVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	
			Mano de obra.....	62.56
			Maquinaria.....	43.56
			Materiales.....	5,917.74
			Coste Indirecto 6%.....	361.43
			TOTAL PARTIDA.....	6,385.29
712	999.0307N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	
			Mano de obra.....	63.00
			Maquinaria.....	29.04
			Materiales.....	734.70
			Coste Indirecto 6%.....	49.60
			TOTAL PARTIDA.....	876.34
713	999.0312N1	m	REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 MM)	
			Mano de obra.....	71.43
			Maquinaria.....	46.34
			Materiales.....	106.97
			Coste Indirecto 6%.....	13.48
			TOTAL PARTIDA.....	238.22
714	999.0313N1	m	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)	
			Mano de obra.....	94.44
			Maquinaria.....	57.47
			Materiales.....	221.88
			Coste Indirecto 6%.....	22.43
			TOTAL PARTIDA.....	396.22
715	999.0320N1	ud	VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA	

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

CUADRO DE PRECIOS 2

Nº	CÓDIGO	UD.	RESUMEN	IMPORTE
			Mano de obra.....	21.39
			Materiales.....	28.28
			Coste Indirecto 6%.....	2.98
			TOTAL PARTIDA.....	52.65
716	999.0321N1	ud	SUMINISTRO Y COLOCACIÓN DE BOLARDO MACIZO DE FUNDICIÓN, DE 1,0 M DE ALTURA LIBRE, DE FORMA CILÍNDRICA D=0,1 M, CON BASE RESALTADA Y REFORZADA, COLOCADO EN ÁREAS PAVIMENTADAS, REMATES DE PAVIMENTO Y LIMPIEZA, TERMINADO	
			Mano de obra.....	50.67
			Materiales.....	23.00
			Coste Indirecto 6%.....	4.42
			TOTAL PARTIDA.....	78.09

Ourense, a Agosto 2023

EL INGENIERO AUTOR DEL PROYECTO

Ignacio Barroso Sánchez

EL INGENIERO DIRECTOR DEL PROYECTO

Javier Serafín Frade Fernández

Vº. Bº. EL INGENIERO JEFE DE LA DEMARCACIÓN

Ángel González del Río

3.- PRESUPUESTOS

3.1. PRESUPUESTOS PARCIALES

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	CAPÍTULO 01 EXPLANACIONES			
	SUBCAPÍTULO 01.1 TRABAJOS PRELIMINARES			
300.0010	m² DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS			
	DESPEJE Y DESBROCE DEL TERRENO POR MEDIOS MECÁNICOS I/ DESTOCONADO, ARRANQUE, CARGA Y TRANSPORTE A VERTEDERO O GESTOR AUTORIZADO DE AQUELLOS RESTOS QUE SEA NECESARIO, HASTA UNA DISTANCIA DE 60 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
		253,915.910	0.57	144,732.07
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE			
	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
		4,780.000	3.90	18,642.00
301.0010	m³ DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE			
	DEMOLICIÓN DE VOLUMEN APARENTE DE EDIFICACIÓN EXISTENTE I/ DEMOLICIÓN DE LA CIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
		6,000.000	9.30	55,800.00
	TOTAL SUBCAPÍTULO 01.1 TRABAJOS PRELIMINARES			219,174.07

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBCAPÍTULO 01.2 MOVIMIENTO DE TIERRAS			
202.0030	t CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO			
	CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA			
		1,058.090	106.00	112,157.54
320.0010	m³ EXCAVACIÓN DE TIERRA VEGETAL			
	EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.			
		81,415.580	2.50	203,538.95
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km			
	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
		1,561,479.270	4.25	6,636,286.90
322.0010	m² PRECORTE PARA TALUDES EN ROCA			
	PRECORTE PARA TALUDES EN ROCA PARA CUALQUIER INCLINACIÓN DEL TALUD (INCLUSO ESCALONADO EN CIMIENTOS EN ROCA) CON TALADROS I/ EJECUCIÓN DE TALADROS, REGULARIZACIÓN O SANEO TRAS REALIZAR EL PRECORTE.			
		17,671.600	10.71	189,262.84
330.0020	m³ TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN			
	TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		(EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).			
			304,918.620	1.10	335,410.48
330.0040N1	m³	SUELO ADECUADO DE LA EXCAVACIÓN SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVACIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.			
			8,020.990	3.20	25,667.17
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			124.900	86.69	10,827.58
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			41.950	624.16	26,183.51
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			629.240	18.29	11,508.80
512.0110	m³	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16,278.340	5.53	90,019.22
		TOTAL SUBCAPÍTULO 01.2 MOVIMIENTO DE TIERRAS			7,640,862.99
		SUBCAPÍTULO 01.3 ACTUACIONES GEOTÉCNICAS			
		APARTADO 01.3.1 ACTUACIONES GEOTÉCNICAS EN RELLENOS			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			963.530	6.70	6,455.65
417.0040	m	TUBO DE PVC DE DIÁMETRO 250 mm TUBO DE PVC DE DIÁMETRO 250MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			125.000	19.37	2,421.25
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			105.010	56.71	5,955.12
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			289.060	86.69	25,058.61
658.0080N1	m³	ESCOLLERA COLOCADA CON BLOQUES DE 1000-3000 kg SIN RELLENO TRASDÓS MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.			
			2,759.200	43.76	120,742.59
		TOTAL APARTADO 01.3.1 ACTUACIONES GEOTÉCNICAS EN RELLENOS.....			160,633.22
		APARTADO 01.3.2 ACTUACIONES GEOTÉCNICAS EN DESMONTES			
290.0090	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO TIPO 9 COMO PROTECCIÓN			
		GEOTEXTIL FORMADO 100 % POR FIBRAS DE PROLIPROPILENO VIRGEN TIPO 9 I/ P.P. DE SOLAPES, TOTALMENTE COLOCADO COMO PROTECCIÓN, Y CON LAS SIGUIENTES PROPIEDADES FÍSICAS: RESISTENCIA A LA TRACCIÓN LONGITUDINAL DE MÁS DE 34,9 KN/M, RESISTENCIA A LA TRACCIÓN TRANSVERSAL DE MÁS DE 43,7 KN/M, ELONGACIÓN LONGITUDINAL EN ROTURA DE MÁS DE 65%, ELONGACIÓN TRANSVERSAL EN ROTURA DE MÁS DE 75%, PUNZONAMIENTO ESTÁTICO (CBR) DE MÁS DE 6910 N, PERFORACIÓN DINÁMICA (CAIDA CONO) DE MENOS DE 5,5 MM Y PERMEABILIDAD AL AGUA DE MÁS DE 19,1 10-6/M²/S.			
			215.750	7.43	1,603.02
307.0080	m²	PROTECCIÓN DE TALUD CON BARRERA DINÁMICA CONTRA CAÍDAS DE PIEDRAS CON CAPACIDAD DE ABSORCIÓN DE 500 KJ			
		BARRERA DINÁMICA PARA LA RETENCIÓN DE DESPRENDIMIENTOS ROCOSOS. CAPACIDAD DE ABSORCIÓN DE ENERGÍA = 500 KJ. CONSTRUIDA Y ENSAYADA SEGÚN RECOMENACIÓN DE LA GUIA ETAG 027, EAD 340059-00 O ANALOGOS Y CON MARCADO CE. ALTURA DE 2,0 A 2,5 M, CON UNA SEPARACIÓN ENTRE POSTES DE SOSTENIMIENTO DE 8 A 12 METROS MÁXIMO Y CERRAMIENTO POR MEDIO DE RED DE CABLE O RED DE ANILLOS Y/O MALLAS DE ACERO GALVANIZADO DE DIMENSIONES EQUIVALENTES, COMPLETAMENTE TERMINADA.			
			120.000	270.14	32,416.80
320.0090	m³	EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLOSIVOS			
		EXCAVACIÓN SUPLEMENTARIA EN RETALUZADO SIN EXPLOSIVOS, CONSIDERÁNDOSE TRABAJO DE RETALUZADO CUANDO LA ALTURA ENTRE EL PIE DEL TALUD, EN EL MOMENTO DE EFECTUAR EL TRABAJO, Y LA CORONACIÓN DEL MISMO SEA IGUAL O SUPERIOR A 8 M I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			198.620	2.94	583.94
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			445.750	6.70	2,986.53
332.1000	m³	RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANULAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 mm DE GRANULOMETRÍA Y FIELTRO DE POLIPROPI			
		RELLENO EN ZANJA PARA DRENAJE CON MATERIAL GRANULAR DEL TIPO GRAVA SILÍCEA DE 20 A 40 MM DE GRANULOMETRÍA Y FIELTRO DE POLIPROPILENO CON UN PESO MÍNIMO DE 80G/M2 PARA TODAS LAS PERMEABILIDADES			
			542.800	22.24	12,071.87
342.0040	m²	PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 mm Y DIÁMETRO HASTA 2,4 mm, ANCLADA CON			
		PROTECCIÓN DE TALUDES CON MALLA METÁLICA, UNA DE TRIPLE TORSIÓN, PASO DE MALLA HASTA 80 MM Y DIÁMETRO HASTA 2,4 MM, ANCLADA CON BARRAS DE ACERO CORRUGADAS Y SUJETA CON PIQUETAS DE ANCLAJE.			
			4,836.610	12.86	62,198.80
342.0200	m	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO			
		BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			516.300	27.21	14,048.52

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.	665.000	18.77	12,482.05
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	5.250	56.71	297.73
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	15.650	86.69	1,356.70
658.0070N1	m³	RECUBRIMIENTO DE ESCOLLERA COLOCADA CON BLOQUES DE 300-1000 KG SIN RELLENO TRASDÓS RECUBRIMIENTO SUPERFICIAL DE ESCOLLERA COLOCADA CON BLOQUES DE 300 A 1000 KG (HUSO HMB 300/1000), CONFORME A UNE EN 13383-1.	116.380	32.75	3,811.45
658.0080N1	m³	ESCOLLERA COLOCADA CON BLOQUES DE 1000-3000 kg SIN RELLENO TRASDÓS MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (HUSO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1, SIN RELLENO DEL TRASDÓS, INCLUIDO MECHINALES.	222.770	43.76	9,748.42

TOTAL APARTADO 01.3.2 ACTUACIONES GEOTÉCNICAS EN DESMONTES 153,605.83

TOTAL SUBCAPÍTULO 01.3 ACTUACIONES GEOTÉCNICAS..... 314,239.05

TOTAL CAPÍTULO 01 EXPLANACIONES..... 8,174,276.11

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 02 DRENAJE			
		SUBCAPÍTULO 02.1 DRENAJE LONGITUDINAL			
		APARTADO 02.1.1 TRONCO			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	4,277.190	6.70	28,657.17
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	2,608.590	3.47	9,051.81
400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN	1,394.040	106.15	147,977.35
410.0021N1	ud	ARQUETA DE REGISTRO PARA DRENES 0,50 x 0,50 x 1,00 m ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.	104.000	307.06	31,934.24
410.0024N1	ud	ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.			
			12.000	654.65	7,855.80
413.0010	m	CAZ DE HORMIGÓN PREFABRICADO CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.			
			768.000	52.72	40,488.96
413.0010N1	m	CANAL SEMICIRCULAR Ø 30 cm CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.			
			170.000	45.81	7,787.70
414.0040	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			204.000	65.77	13,417.08
414.0060	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			42.000	81.96	3,442.32
414.0090	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 600 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			47.000	98.74	4,640.78
414.0030	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 135 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			906.000	65.07	58,953.42
414.0110	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 800 mm CLASE 135 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 800MM CLASE 135 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			45.000	140.76	6,334.20
415.0010N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=40 cm BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			11.000	1,106.69	12,173.59
415.0020N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=60 cm BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			1.000	1,246.85	1,246.85
415.0030N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=80 cm BOQUILLA Y ALETAS PARA TUBO DE 80 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			1.000	1,395.23	1,395.23
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			4,975.000	18.77	93,380.75
400.0020N1	m	CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 1 ESCALONADA CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS			
			2,505.000	33.66	84,318.30
400.0021N1	m	CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 2 ESCALONADA CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-2, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS			
			130.000	49.49	6,433.70
570.0050N1	m	BORDILLO MONTABLE DE TERRAPLÉN SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.			
			525.000	15.16	7,959.00
430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			341.000	25.05	8,542.05
430.0020	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			
			159.000	36.46	5,797.14
411.0011N1	ud	SUMIDERO CON REJILLA DE FUNDICIÓN SUMIDERO, CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.			
			6.000	105.30	631.80
400.0020N2	m³	HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS HORMIGÓN ARMADO HA-25 EN FORMACIÓN DE CUNETA LATERAL EN PERGOLA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS.			
			66.975	115.23	7,717.53
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			98.630	86.69	8,550.23
		TOTAL APARTADO 02.1.1 TRONCO			598,687.00

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 02.1.2 ENLACES			
		SUBAPARTADO 02.1.2.1 ENLACE DA CASILLA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			541.560	6.70	3,628.45
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			234.000	3.47	811.98
400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN			
		HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN			
			194.750	106.15	20,672.71
410.0021N1	ud	ARQUETA DE REGISTRO PARA DRENES 0,50 x 0,50 x 1,00 m			
		ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 0,50 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.			
			8.000	307.06	2,456.48
410.0024N1	ud	ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL			
		ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLE-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		NO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.			
			4.000	654.65	2,618.60
413.0010	m	CAZ DE HORMIGÓN PREFABRICADO			
		CAZ DE HORMIGÓN PREFABRICADO DE HASTA DIÁMETRO DE 300 MM I/ SUMINISTRO DEL CAZ Y TRANSPORTE A LUGAR DE EMPLEO, EXCAVACIÓN , AGOTAMIENTO, Y ENTIBACIÓN SI FUESE NECESARIO, CARGA Y TRANSPORTE DE PRODUCTOS SOBRANTES A VERTEDERO, NIVELACIÓN Y PREPARACIÓN DE LECHO DE ASIENTO Y PERFILADO.			
			90.000	52.72	4,744.80
413.0010N1	m	CANAL SEMICIRCULAR Ø 30 cm			
		CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.			
			205.000	45.81	9,391.05
414.0040	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 400 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 400MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			80.000	65.77	5,261.60
414.0060	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			60.000	81.96	4,917.60
415.0010N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=40 cm			
		BOQUILLA Y ALETAS PARA TUBO DE 40 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4.000	1,106.69	4,426.76
415.0015N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=50 cm BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			1.000	1,172.77	1,172.77
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			460.000	18.77	8,634.20
430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			
			95.000	25.05	2,379.75
570.0050N1	m	BORDILLO MONTABLE DE TERRAPLÉN SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.			
			350.000	15.16	5,306.00
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			47.000	86.69	4,074.43
		TOTAL SUBAPARTADO 02.1.2.1 ENLACE DA CASILLA.....			80,497.18

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 02.1.2.2 CAMINOS			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			111.830	6.70	749.26
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			63.000	3.47	218.61
400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN			
			11.520	106.15	1,222.85
410.0024N1	ud	ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.			
			2.000	654.65	1,309.30
414.0090	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 600 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 600MM			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			30.000	98.74	2,962.20
415.0020N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=60 cm BOQUILLA Y ALETAS PARA TUBO DE 60 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			4.000	1,246.85	4,987.40
430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			
			36.000	25.05	901.80
570.0050N1	m	BORDILLO MONTABLE DE TERRAPLÉN SUMINISTRO Y COLOCACIÓN DE BORDILLO BICAPA MONTABLE DE TERRAPLÉN, DE HORMIGÓN PREFABRICADO 25 X 10 CM, SEGÚN PLANOS. INCLUSO MORTERO DE ASIENTO Y REJUNTADO.			
			47.000	15.16	712.52
400.0020N1	m	CUNETA TRAPECIAL REVESTIDA DE GUARDA CR 1 ESCALONADA CUNETA TRAPECIAL ESCALONADA REVESTIDA EN DESMONTE O PIE DE TERRAPLÉN TIPO CR-1, DE LA FORMA Y DIMENSIONES ESPECIFICADAS EN LOS PLANOS, TOTALMENTE TERMINADA. INCLUYE LOS TRABAJOS DE EXCAVACIÓN NECESARIOS			
			410.000	33.66	13,800.60
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			11.250	86.69	975.26
		TOTAL SUBAPARTADO 02.1.2.2 CAMINOS			27,839.80
		TOTAL APARTADO 02.1.2 ENLACES.....			108,336.98
		TOTAL SUBCAPÍTULO 02.1 DRENAJE LONGITUDINAL.....			707,023.98
		SUBCAPÍTULO 02.2 DRENAJE TRANSVERSAL			
		APARTADO 02.2.1 TRONCO			
		SUBAPARTADO 02.2.1.1 O.D. 1.7 TUBO Ø 1.80 P.K. 1+787,922			
		ELEMENTO 02.2.1.1.1 CUERPO DE OBRA O.D. 1.7			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			670.030	6.70	4,489.20
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			211.580	3.47	734.18
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			55.150	509.87	28,119.33
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE CO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		LOCADO.			
			102.030	86.69	8,844.98
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			109.200	28.44	3,105.65
		TOTAL ELEMENTO 02.2.1.1.1 CUERPO DE OBRA O.D. 1.7.....			45,293.34
		ELEMENTO 02.2.1.1.2 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			350.320	6.70	2,347.14
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			77.870	3.47	270.21
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			122.550	113.62	13,924.13

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			20.650	86.69	1,790.15
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			181.610	28.44	5,164.99
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			238.480	33.91	8,086.86
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			12,867.750	1.81	23,290.63
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			181.611	11.26	2,044.94
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			181.610	7.84	1,423.82
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			31.000	7.13	221.03
411.0012N1	ud	REJILLA DE FUNDICIÓN DUCTIL REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.			
			2.000	320.31	640.62
658.0020	m³	ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			48.900	43.22	2,113.46
630.300M1	m²	LOSA DE GRANITO LOSA DE GRANITO			
			12.960	78.13	1,012.56

TOTAL ELEMENTO 02.2.1.1.2 POZO DE ENTRADA..... 62,330.54

ELEMENTO 02.2.1.1.3 BAJANTE ESCALONADA A LA SALIDA

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			341.220	6.70	2,286.17
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			214.520	3.47	744.38
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			168.230	11.26	1,894.27
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			168.230	7.84	1,318.92
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			100.070	113.62	11,369.95
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			168.230	28.44	4,784.46
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			185.510	33.91	6,290.64
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			12,739.950	1.81	23,059.31
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			14.000	37.10	519.40
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			29.000	6.74	195.46
		TOTAL ELEMENTO 02.2.1.1.3 BAJANTE ESCALONADA A LA SALIDA.....			52,462.96

ELEMENTO 02.2.1.1.4 ARQUETA EN MEDIANA

610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			4.800	113.62	545.38
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			8.750	28.44	248.85
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			13.540	33.91	459.14
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			480.000	1.81	868.80
411.0012N1	ud	REJILLA DE FUNDICIÓN DUCTIL REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.			
			1.000	320.31	320.31
		TOTAL ELEMENTO 02.2.1.1.4 ARQUETA EN MEDIANA			2,442.48

ELEMENTO 02.2.1.1.5 RECRECIDO DE ARQUETA

610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			11.040	113.62	1,254.36
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			16.000	28.44	455.04
680.0030	m²	ENCOFRADO VISTO PLANO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			27.040	33.91	916.93
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,104.000	1.81	1,998.24
411.0012N1	ud	REJILLA DE FUNDICIÓN DUCTIL			
		REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.			
			1.000	320.31	320.31
675.0020	ud	BARRA Ø20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI L<0,70 m			
		BARRA Ø 20 DE ACERO CORRUGADO B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, ANCLADA A POSTERIORI I/ PERFORACIÓN, COLOCACIÓN E INYECCIÓN DE RESINA EPOXI, SEGÚN DEFINICIÓN EN PLANOS (LONGITUD < 0,70 M).			
			40.000	19.05	762.00
		TOTAL ELEMENTO 02.2.1.1.5 RECRECIDO DE ARQUETA.....			5,706.88
		ELEMENTO 02.2.1.1.6 BOQUILLAS O.D. 1.7			
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			1.120	113.62	127.25
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			0.720	86.69	62.42
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			6.190	28.44	176.04
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			6.190	33.91	209.90
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			86.550	1.81	156.66
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL			
		ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			15.600	37.10	578.76
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)			
		GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			23.400	6.74	157.72
		TOTAL ELEMENTO 02.2.1.1.6 BOQUILLAS O.D. 1.7			1,468.75
		TOTAL SUBAPARTADO 02.2.1.1 O.D. 1.7 TUBO Ø 1.80 P.K. 1+787,922.....			169,704.95
		SUBAPARTADO 02.2.1.2 O.D. 2.0 MARCO 4,00 X 2,50 P.K. 2+072,043			
		ELEMENTO 02.2.1.2.1 CUERPO DE OBRA O.D. 2.0			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	1,630.820	6.70	10,926.49
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	315.640	3.47	1,095.27
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.	483.042	11.26	5,439.05
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.	483.040	7.84	3,787.03

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, Llosas, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	131.250	113.62	14,912.63
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	68.360	109.05	7,454.66
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.	22.790	66.48	1,515.08
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	410.130	33.91	13,907.51
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	291.650	28.44	8,294.53
696.0120N1	m²	PLANCHA POREXPAN E= 0,5 cm PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.	26.280	1.22	32.06
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			91.140	18.77	1,710.70
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			4.560	86.69	395.31
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			27,260.330	1.81	49,341.20
660.0010	m²	ENCACHADO DE PIEDRA			
		ENCACHADO DE PIEDRA EJECUTADO MEDIANTE PIEDRA DE CANTERA PARA ENCACHADO , HORMIGÓN C20/25 Y MORTERO DE CEMENTO PORTLAND MCP-5 DE DOSIFICACIÓN 1:4 SIN INCLUIR ARMADURAS			
			182.280	25.99	4,737.46
		TOTAL ELEMENTO 02.2.1.2.1 CUERPO DE OBRA O.D. 2.0.....			123,548.98
		ELEMENTO 02.2.1.2.2 BOQUILLAS O.D. 2.0			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,640.870	6.70	10,993.83
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			33.820	3.47	117.36
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			8.190	11.26	92.22
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			8.200	7.84	64.29
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			4.200	18.77	78.83
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			5.810	113.62	660.13
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			5.120	109.05	558.34
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.280	66.48	85.09
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			1.760	86.69	152.57
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			19.440	28.44	552.87
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			15.240	33.91	516.79
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			662.600	1.81	1,199.31

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL			
		ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			217.500	37.10	8,069.25
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)			
		GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			501.525	6.74	3,380.28
		TOTAL ELEMENTO 02.2.1.2.2 BOQUILLAS O.D. 2.0			26,521.16
		ELEMENTO 02.2.1.2.3 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			668.930	6.70	4,481.83
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			83.770	3.47	290.68
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			213.810	113.62	24,293.09
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			20.650	86.69	1,790.15
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			308.520	28.44	8,774.31
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			421.440	33.91	14,291.03
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			22,865.850	1.81	41,387.19
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			308.515	11.26	3,473.88
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			308.520	7.84	2,418.80
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			28.000	7.13	199.64
411.0012N1	ud	REJILLA DE FUNDICIÓN DUCTIL REJILLA DE FUNDICIÓN DÚCTIL EN POZOS Y ARQUETAS, SEGÚN DETALLE EN PLANOS, TOTALMENTE COLOCADA.			
			2.000	320.31	640.62
		TOTAL ELEMENTO 02.2.1.2.3 POZO DE ENTRADA.....			102,041.22
		ELEMENTO 02.2.1.2.4 LOSA DE TRANSICIÓN			
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			12,042.000	1.81	21,796.02
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			42.840	66.48	2,848.00
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			149.010	113.62	16,930.52
680.0010	m²	ENCOFRADO OCULTO PLANO			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
		57.680	28.44	1,640.42
	TOTAL ELEMENTO 02.2.1.2.4 LOSA DE TRANSICIÓN.....			43,214.96
	TOTAL SUBAPARTADO 02.2.1.2 O.D. 2.0 MARCO 4,00 X 2,50 P.K. 2+072,043.....			295,326.32
	SUBAPARTADO 02.2.1.3 O.D. 2.3 TUBO Ø 1.80 P.K. 2+345,454			
	ELEMENTO 02.2.1.3.1 CUERPO DE OBRA O.D. 2.3			
610.0020	m³ HORMIGÓN C20/25			
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
		81.120	86.69	7,032.29
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180			
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
		43.850	509.87	22,357.80
680.0010	m² ENCOFRADO OCULTO PLANO			
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
		86.820	28.44	2,469.16
	TOTAL ELEMENTO 02.2.1.3.1 CUERPO DE OBRA O.D. 2.3.....			31,859.25
	ELEMENTO 02.2.1.3.2 BOQUILLAS O.D. 2.3			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
		63.340	6.70	424.38
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
		3.960	3.47	13.74
696.0010N1	m² FORRO DRENANTE POLIAMIDA			
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
		24.196	11.26	272.45
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
		18.290	7.84	143.39
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
		16.060	109.05	1,751.34
610.0070	m³ HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			11.080	113.62	1,258.91
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			4.010	66.48	266.58
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			41.190	28.44	1,171.44
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			30.670	33.91	1,040.02
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			13.150	18.77	246.83
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			3.970	86.69	344.16
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,074.730	1.81	3,755.26
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			48.900	37.10	1,814.19
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			52.300	6.74	352.50
		TOTAL ELEMENTO 02.2.1.3.2 BOQUILLAS O.D. 2.3			12,855.19
		ELEMENTO 02.2.1.3.3 BAJANTE ESCALONADA A LA SALIDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			82.270	6.70	551.21
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			65.170	3.47	226.14
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			70.220	11.26	790.68
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			70.220	7.84	550.52
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			29.570	113.62	3,359.74
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			70.220	28.44	1,997.06
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			76.340	33.91	2,588.69
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			3,164.560	1.81	5,727.85
		TOTAL ELEMENTO 02.2.1.3.3 BAJANTE ESCALONADA A LA SALIDA.....			15,791.89
		TOTAL SUBAPARTADO 02.2.1.3 O.D. 2.3 TUBO Ø 1.80 P.K. 2+345,454.....			60,506.33
		SUBAPARTADO 02.2.1.4 O.D. 2.6 MARCO 2,00 X 2,00 P.K. 2+602,924			
		ELEMENTO 02.2.1.4.1 CUERPO DE OBRA O.D. 2.6			
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			359.200	11.26	4,044.59
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			359.200	7.84	2,816.13
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			57.470	109.05	6,267.10
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			122.130	113.62	13,876.41
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			14.370	66.48	955.32
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			260.420	28.44	7,406.34
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			269.400	33.91	9,135.35
696.0120N1	m²	PLANCHA POREXPAN E= 0,5 cm PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.			
			24.000	1.22	29.28
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			89.800	18.77	1,685.55
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			4.490	86.69	389.24
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			19,005.710	1.81	34,400.34
		TOTAL ELEMENTO 02.2.1.4.1 CUERPO DE OBRA O.D. 2.6.....			81,005.65
		ELEMENTO 02.2.1.4.2 BOQUILLAS O.D. 2.6			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			57.450	6.70	384.92
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			3.700	3.47	12.84
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			22.756	11.26	256.23
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			22.760	7.84	178.44
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			12.300	18.77	230.87
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.760	66.48	249.96
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			8.350	113.62	948.73
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			15.000	109.05	1,635.75
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			4.780	86.69	414.38
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			33.620	28.44	956.15
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			21.320	33.91	722.96
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			116.250	6.74	783.53
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,711.940	1.81	3,098.61
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			66.260	37.10	2,458.25
		TOTAL ELEMENTO 02.2.1.4.2 BOQUILLAS O.D. 2.6			12,331.62
		ELEMENTO 02.2.1.4.3 BAJANTE ESCALONADA A LA SALIDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			98.810	6.70	662.03
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			75.270	3.47	261.19
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			75.140	11.26	846.08
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			75.140	7.84	589.10
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			32.540	113.62	3,697.19
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EJECUCIÓN.			
			75.140	28.44	2,136.98
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			82.280	33.91	2,790.11
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			3,523.970	1.81	6,378.39
		TOTAL ELEMENTO 02.2.1.4.3 BAJANTE ESCALONADA A LA SALIDA.....			17,361.07
		TOTAL SUBAPARTADO 02.2.1.4 O.D. 2.6 MARCO 2,00 X 2,00 P.K. 2+602,924.....			110,698.34
		SUBAPARTADO 02.2.1.5 O.D. 3.1 TUBO Ø 1.80 P.K. 3+182,167			
		ELEMENTO 02.2.1.5.1 CUERPO DE OBRA O.D. 3.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			332.140	6.70	2,225.34
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			104.890	3.47	363.97
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			35.550	509.87	18,125.88
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			65.770	86.69	5,701.60
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			70.390	28.44	2,001.89
		TOTAL ELEMENTO 02.2.1.5.1 CUERPO DE OBRA O.D. 3.1.....			28,418.68
		ELEMENTO 02.2.1.5.2 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			56.420	6.70	378.01
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			8.690	3.47	30.15
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			8.100	113.62	920.32
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			0.420	86.69	36.41
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			28.170	28.44	801.15
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			18.800	33.91	637.51
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			707.030	1.81	1,279.72
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			13.000	7.13	92.69
		TOTAL ELEMENTO 02.2.1.5.2 POZO DE ENTRADA.....			4,175.96
		ELEMENTO 02.2.1.5.3 BOQUILLAS O.D. 3.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			7.200	6.70	48.24
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1.800	3.47	6.25
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			9.900	11.26	111.47
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			7.200	7.84	56.45
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			6.000	18.77	112.62
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.840	66.48	122.32
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			4.760	113.62	540.83
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			7.320	109.05	798.25
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			1.770	86.69	153.44
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			18.190	28.44	517.32
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			13.390	33.91	454.05
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			914.610	1.81	1,655.44
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			6.600	37.10	244.86
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			12.000	6.74	80.88
		TOTAL ELEMENTO 02.2.1.5.3 BOQUILLAS O.D. 3.1			4,902.42
		ELEMENTO 02.2.1.5.4 BAJANTE ESCALONADA A LA ENTREDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			91.520	6.70	613.18
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			63.440	3.47	220.14
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			61.200	11.26	689.11
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			61.200	7.84	479.81
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			22.930	113.62	2,605.31
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			61.200	28.44	1,740.53
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			63.240	33.91	2,144.47
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			3,046.910	1.81	5,514.91
		TOTAL ELEMENTO 02.2.1.5.4 BAJANTE ESCALONADA A LA ENTREDA.....			14,007.46
		ELEMENTO 02.2.1.5.5 BAJANTE ESCALONADA A LA SALIDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			32.160	6.70	215.47
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			20.340	3.47	70.58
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			29.600	11.26	333.30
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			29.600	7.84	232.06
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			12.190	113.62	1,385.03
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			29.600	28.44	841.82
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			30.620	33.91	1,038.32
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,298.980	1.81	2,351.15
		TOTAL ELEMENTO 02.2.1.5.5 BAJANTE ESCALONADA A LA SALIDA.....			6,467.73
		TOTAL SUBAPARTADO 02.2.1.5 O.D. 3.1 TUBO Ø 1.80 P.K. 3+182,167.....			57,972.25
		SUBAPARTADO 02.2.1.6 O.D. 3.6 MARCO 5,00 X 3,00 P.K. 3+658,200			
		ELEMENTO 02.2.1.6.1 CUERPO DE OBRA O.D. 3.6			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			3,413.910	6.70	22,873.20
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			583.910	3.47	2,026.17
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			1,538.840	11.26	17,327.34
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			1,538.840	7.84	12,064.51
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			1,062.430	113.62	120,713.30
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			590.240	109.05	64,365.67
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			73.780	66.48	4,904.89
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			1,159.400	33.91	39,315.25
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			990.760	28.44	28,177.21

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
696.0120N1	m²	PLANCHA POREXPAN E= 0,5 cm PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.	188.160	1.22	229.56
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.	210.800	18.77	3,956.72
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	10.540	86.69	913.71
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	287,507.900	1.81	520,389.30

TOTAL ELEMENTO 02.2.1.6.1 CUERPO DE OBRA O.D. 3.6..... 837,256.83

ELEMENTO 02.2.1.6.2 BOQUILLAS O.D. 3.6

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,585.080	6.70	10,620.04
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	8.860	3.47	30.74
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.	40.180	11.26	452.43
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.	40.180	7.84	315.01
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.	16.400	18.77	307.83
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	30.410	113.62	3,455.18
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTA-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		LLAS, ENCEPADOS Y ACERAS.			
			62.320	109.05	6,796.00
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			7.800	66.48	518.54
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			1.500	86.69	130.04
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			92.200	28.44	2,622.17
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			63.340	33.91	2,147.86
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			5,666.160	1.81	10,255.75
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			315.280	37.10	11,696.89
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)			
		GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			408.975	6.74	2,756.49
		TOTAL ELEMENTO 02.2.1.6.2 BOQUILLAS O.D. 3.6			52,104.97
		TOTAL SUBAPARTADO 02.2.1.6 O.D. 3.6 MARCO 5,00 X 3,00 P.K. 3+658,200			889,361.80
		SUBAPARTADO 02.2.1.7 O.D. 4.7 MARCO 8,00 X 3,00 P.K. 4+704,903			
		ELEMENTO 02.2.1.7.1 CUERPO DE OBRA O.D. 4.7			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			1,705.370	6.70	11,425.98
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			270.860	3.47	939.88
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			1,108.096	11.26	12,477.16
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			1,108.100	7.84	8,687.50
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			785.740	113.62	89,275.78
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			503.680	109.05	54,926.30
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			62.960	66.48	4,185.58
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			591.830	28.44	16,831.65
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			881.440	33.91	29,889.63
696.0120N1	m²	PLANCHA POREXPAN E= 0,5 cm			
		PLANCHA DE POREXPAN DE 0,5 CM DE ESPESOR, TOTALMENTE COLOCADA.			
			163.840	1.22	199.88
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			125.920	18.77	2,363.52
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			6.300	86.69	546.15
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			158,096.950	1.81	286,155.48
		TOTAL ELEMENTO 02.2.1.7.1 CUERPO DE OBRA O.D. 4.7.....			517,904.49
		ELEMENTO 02.2.1.7.2 BOQUILLAS O.D. 4.7			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			404.100	6.70	2,707.47
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			11.910	3.47	41.33
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			56.280	11.26	633.71
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			56.280	7.84	441.24
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			22.070	18.77	414.25
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			27.320	113.62	3,104.10
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			83.860	109.05	9,144.93
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			10.480	66.48	696.71
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			27.500	86.69	2,383.98
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			57.340	33.91	1,944.40
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			97.060	28.44	2,760.39
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCA-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			7,845.010	1.81	14,199.47
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			130.230	37.10	4,831.53
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			220.195	6.74	1,484.11
		TOTAL ELEMENTO 02.2.1.7.2 BOQUILLAS O.D. 4.7			44,787.62
		TOTAL SUBAPARTADO 02.2.1.7 O.D. 4.7 MARCO 8,00 X 3,00 P.K. 4+704,903			562,692.11
		TOTAL APARTADO 02.2.1 TRONCO			2,146,262.10
		APARTADO 02.2.2 ENLACES Y CAMINOS			
		SUBAPARTADO 02.2.2.2 O.D. 2.6.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280			
		ELEMENTO 02.2.2.2.1 CUERPO DE OBRA O.D. 2.6.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			72.700	6.70	487.09
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			22.950	3.47	79.64
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			14.670	86.69	1,271.74
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			7.930	509.87	4,043.27
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			15.700	28.44	446.51
		TOTAL ELEMENTO 02.2.2.2.1 CUERPO DE OBRA O.D. 2.6.1			6,328.25
		ELEMENTO 02.2.2.2.2 BOQUILLAS O.D. 2.6.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			61.250	6.70	410.38
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1.670	6.70	11.19
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			10.230	11.26	115.19
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			7.730	7.84	60.60
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			5.560	18.77	104.36
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			6.850	113.62	778.30
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			6.780	109.05	739.36
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.700	66.48	113.02
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			3.290	86.69	285.21
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			20.110	33.91	681.93
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			24.560	28.44	698.49
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			971.740	1.81	1,758.85
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			15.600	37.10	578.76
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			43.500	6.74	293.19
		TOTAL ELEMENTO 02.2.2.2.2 BOQUILLAS O.D. 2.6.1			6,628.83

ELEMENTO 02.2.2.2.3 POZO DE ENTRADA

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			47.170	6.70	316.04
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			13.980	3.47	48.51

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			13.500	109.05	1,472.18
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			0.380	86.69	32.94
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			33.240	33.91	1,127.17
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			45.700	28.44	1,299.71
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,150.300	1.81	2,082.04
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			16.000	7.13	114.08

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL ELEMENTO 02.2.2.2.3 POZO DE ENTRADA.....			6,492.67
	TOTAL SUBAPARTADO 02.2.2.2 O.D. 2.6.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280.....			19,449.75
	SUBAPARTADO 02.2.2.3 O.D. 3.1.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280			
	ELEMENTO 02.2.2.3.1 CUERPO DE OBRA O.D. 3.1.1			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	85.710	6.70	574.26
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	27.060	3.47	93.90
610.0020	m³ HORMIGÓN C20/25			
	HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	13.490	86.69	1,169.45
414.0240	m TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180			
	TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN	7.290	509.87	3,716.95
680.0010	m² ENCOFRADO OCULTO PLANO			
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	14.430	28.44	410.39
	TOTAL ELEMENTO 02.2.2.3.1 CUERPO DE OBRA O.D. 3.1.1.....			5,964.95
	ELEMENTO 02.2.2.3.2 BOQUILLAS O.D. 3.1.1			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	132.480	6.70	887.62
332.0060	m³ RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	1.800	6.70	12.06
696.0010N1	m² FORRO DRENANTE POLIAMIDA			
	FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.	9.900	11.26	111.47
690.0040	m² IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			7.200	7.84	56.45
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			6.000	18.77	112.62
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			9.440	113.62	1,072.57
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			7.320	109.05	798.25
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.840	66.48	122.32
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			2.330	86.69	201.99
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			26.600	33.91	902.01
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			27.120	28.44	771.29
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			938.640	1.81	1,698.94
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			6.600	37.10	244.86
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			38.750	6.74	261.18
		TOTAL ELEMENTO 02.2.2.3.2 BOQUILLAS O.D. 3.1.1			7,253.63
		ELEMENTO 02.2.2.3.3 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CI-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			40.320	6.70	270.14
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			8.720	3.47	30.26
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			7.910	109.05	862.59
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			18.340	33.91	621.91
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			27.610	28.44	785.23
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			695.290	1.81	1,258.47
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO			
		PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			13.000	7.13	92.69
		TOTAL ELEMENTO 02.2.2.3.3 POZO DE ENTRADA.....			3,921.29
		ELEMENTO 02.2.2.3.4 BAJANTE ESCALONADA A LA ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			61.440	6.70	411.65
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			47.040	3.47	163.23
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			48.000	11.26	540.48

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			48.000	7.84	376.32
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			17.170	113.62	1,950.86
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			50.040	33.91	1,696.86
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			48.000	28.44	1,365.12
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,398.310	1.81	4,340.94
		TOTAL ELEMENTO 02.2.2.3.4 BAJANTE ESCALONADA A LA ENTRADA.....			10,845.46
		TOTAL SUBAPARTADO 02.2.2.3 O.D. 3.1.1 TUBO Ø 1.80 M.I. P.K. 2+500-3+280.....			27,985.33

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 02.2.2.4 O.T.D.L. 2.6 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			
		ELEMENTO 02.2.2.4.1 CUERPO DE OBRA O.T.D.L. 2.6			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			60.030	6.70	402.20
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			20.580	3.47	71.41
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			11.760	86.69	1,019.47
414.0210	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			7.170	372.57	2,671.33
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EJECUCIÓN.			
			14.200	28.44	403.85
		TOTAL ELEMENTO 02.2.2.4.1 CUERPO DE OBRA O.T.D.L. 2.6.....			4,568.26
		ELEMENTO 02.2.2.4.2 BOQUILLAS O.T.D.L. 2.6			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			16.400	6.70	109.88
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1.620	6.70	10.85
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			9.072	11.26	102.15
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			6.640	7.84	52.06
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			5.400	18.77	101.36
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			5.530	113.62	628.32
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			6.580	109.05	717.55
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.640	66.48	109.03
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			1.490	86.69	129.17
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16.070	33.91	544.93
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			20.390	28.44	579.89
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			882.650	1.81	1,597.60
430.0010	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,30 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			
			7.500	25.05	187.88
		TOTAL ELEMENTO 02.2.2.4.2 BOQUILLAS O.T.D.L. 2.6.....			4,870.67

ELEMENTO 02.2.2.4.3 POZO DE ENTRADA

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			29.110	6.70	195.04
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			7.860	3.47	27.27
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			7.060	109.05	769.89
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			0.210	86.69	18.20
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			16.320	33.91	553.41
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			25.360	28.44	721.24
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			609.220	1.81	1,102.69
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			12.000	7.13	85.56
430.0020	m	BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 m DE ANCHO INTERIOR BAJANTE PREFABRICADA DE HORMIGÓN DE 0,40 M DE ANCHO INTERIOR I/SUMINISTRO,TRANSPORTE, EXCAVACIÓN , PREPARACIÓN DE LA SUPERFICIE DE ASIENTO REJUNTADO CON HORMIGÓN O MORTERO Y P.P. DE EMBOCADURAS Y REMATES			
			15.000	36.46	546.90
		TOTAL ELEMENTO 02.2.2.4.3 POZO DE ENTRADA.....			4,020.20
		TOTAL SUBAPARTADO 02.2.2.4 O.T.D.L. 2.6 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			13,459.13
		SUBAPARTADO 02.2.2.5 O.T.D.L. 3.1 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			
		ELEMENTO 02.2.2.5.1 CUERPO DE OBRA O.T.D.L. 3.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			67.980	6.70	455.47
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			23.310	3.47	80.89
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			13.560	86.69	1,175.52
414.0210	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			8.270	372.57	3,081.15
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			16.370	28.44	465.56
		TOTAL ELEMENTO 02.2.2.5.1 CUERPO DE OBRA O.T.D.L. 3.1.....			5,258.59
		ELEMENTO 02.2.2.5.2 BOQUILLAS O.T.D.L. 3.1			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			17.710	6.70	118.66
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			0.610	6.70	4.09
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			3.410	11.26	38.40
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			2.500	7.84	19.60
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			2.030	18.77	38.10
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			3.860	113.62	438.57
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.480	109.05	270.44
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			0.620	66.48	41.22
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			1.520	86.69	131.77
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			11.930	33.91	404.55
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			13.550	28.44	385.36
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			434.500	1.81	786.45
		TOTAL ELEMENTO 02.2.2.5.2 BOQUILLAS O.T.D.L. 3.1.....			2,677.21

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ELEMENTO 02.2.2.5.3 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	25.460	6.70	170.58
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	7.370	3.47	25.57
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	8.400	109.05	916.02
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	0.400	86.69	34.68
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	19.730	33.91	669.04
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	29.660	28.44	843.53
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	727.420	1.81	1,316.63
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO	13.000	7.13	92.69
		TOTAL ELEMENTO 02.2.2.5.3 POZO DE ENTRADA			4,068.74
		TOTAL SUBAPARTADO 02.2.2.5 O.T.D.L. 3.1 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			12,004.54
		SUBAPARTADO 02.2.2.6 O.T.D.L. 3.2 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			
		ELEMENTO 02.2.2.6.1 CUERPO DE OBRA O.T.D.L. 3.2			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	93.530	6.70	626.65
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			32.070	3.47	111.28
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			12.890	86.69	1,117.43
414.0210	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1500 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			7.860	372.57	2,928.40
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			15.720	28.44	447.08
		TOTAL ELEMENTO 02.2.2.6.1 CUERPO DE OBRA O.T.D.L. 3.2.....			5,230.84
		ELEMENTO 02.2.2.6.2 BOQUILLAS O.T.D.L. 3.2			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			62.150	6.70	416.41
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			2.080	6.70	13.94
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			11.626	11.26	130.91
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			8.520	7.84	66.80
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			6.920	18.77	129.89
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			6.270	113.62	712.40
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			8.440	109.05	920.38
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			2.120	66.48	140.94
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			2.060	86.69	178.58
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			17.950	33.91	608.68
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			23.470	28.44	667.49
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,118.090	1.81	2,023.74
		TOTAL ELEMENTO 02.2.2.6.2 BOQUILLAS O.T.D.L. 3.2.....			6,010.16
		ELEMENTO 02.2.2.6.3 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			30.140	6.70	201.94
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			10.000	3.47	34.70
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			10.170	109.05	1,109.04
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			0.260	86.69	22.54
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHI-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			24.520	33.91	831.47
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			35.560	28.44	1,011.33
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			871.850	1.81	1,578.05
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			15.000	7.13	106.95
		TOTAL ELEMENTO 02.2.2.6.3 POZO DE ENTRADA.....			4,896.02
		TOTAL SUBAPARTADO 02.2.2.6 O.T.D.L. 3.2 TUBO Ø 1.50 M.I. P.K. 2+500-3+280			16,137.02

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 02.2.2.7 O.T.D.L. 4.7 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA			
		ELEMENTO 02.2.2.7.1 CUERPO DE OBRA O.T.D.L. 4.7			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			157.560	6.70	1,055.65
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			49.750	3.47	172.63
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			52.280	86.69	4,532.15
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			28.110	509.87	14,332.45
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EJECUCIÓN.			
			55.660	28.44	1,582.97
		TOTAL ELEMENTO 02.2.2.7.1 CUERPO DE OBRA O.T.D.L. 4.7.....			21,675.85
		ELEMENTO 02.2.2.7.2 BOQUILLAS O.T.D.L. 4.7			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			79.070	6.70	529.77
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			5.220	6.70	34.97
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			32.016	11.26	360.50
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			24.190	7.84	189.65
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			17.400	18.77	326.60
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			13.430	113.62	1,525.92
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			21.240	109.05	2,316.22
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			5.310	66.48	353.01
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			10.250	86.69	888.57
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			36.570	33.91	1,240.09
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			50.480	28.44	1,435.65
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,678.380	1.81	4,847.87

TOTAL ELEMENTO 02.2.2.7.2 BOQUILLAS O.T.D.L. 4.7 ..... 14,048.82

TOTAL SUBAPARTADO 02.2.2.7 O.T.D.L. 4.7 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA 35,724.67

SUBAPARTADO 02.2.2.8 O.T.D.L. 4.8.1 TUBO Ø 1.80 RAMAL A. ENLACE DA CASILLA

ELEMENTO 02.2.2.8.1 CUERPO DE OBRA O.T.D.L. 4.8.1

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			168.620	6.70	1,129.75
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			53.240	3.47	184.74
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			21.480	86.69	1,862.10
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			11.550	509.87	5,889.00
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			22.870	28.44	650.42

TOTAL ELEMENTO 02.2.2.8.1 CUERPO DE OBRA O.T.D.L. 4.8.1..... 9,716.01

ELEMENTO 02.2.2.8.2 BOQUILLAS O.T.D.L. 4.8.1

321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			365.390	6.70	2,448.11

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1.800	6.70	12.06
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			11.040	11.26	124.31
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			8.340	7.84	65.39
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm			
		TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			6.000	18.77	112.62
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			10.340	113.62	1,174.83
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			4.560	109.05	497.27
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.140	66.48	75.79
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			3.210	86.69	278.27
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			28.820	33.91	977.29
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			28.820	28.44	819.64
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			844.280	1.81	1,528.15
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			6.600	37.10	244.86
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%)			
		GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			40.000	6.74	269.60
		TOTAL ELEMENTO 02.2.2.8.2 BOQUILLAS O.T.D.L. 4.8.1			8,628.19
		ELEMENTO 02.2.2.8.3 POZO DE ENTRADA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			31.120	6.70	208.50
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			10.080	3.47	34.98
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			10.210	109.05	1,113.40
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			0.240	86.69	20.81
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			24.730	33.91	838.59
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			36.040	28.44	1,024.98
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			864.690	1.81	1,565.09
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO			
		PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			15.000	7.13	106.95
		TOTAL ELEMENTO 02.2.2.8.3 POZO DE ENTRADA			4,913.30
		TOTAL SUBAPARTADO 02.2.2.8 O.T.D.L. 4.8.1 TUBO Ø 1.80 RAMAL A. ENLACE DA CASILLA			23,257.50

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 02.2.2.9 O.T.D.L. 4.8.2 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA			
		ELEMENTO 02.2.2.9.1 CUERPO DE OBRA O.T.D.L. 4.8.2			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			111.290	6.70	745.64
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			35.140	3.47	121.94
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			30.260	86.69	2,623.24
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			16.270	509.87	8,295.58
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EJECUCIÓN.			
			32.210	28.44	916.05
		TOTAL ELEMENTO 02.2.2.9.1 CUERPO DE OBRA O.T.D.L. 4.8.2.....			12,702.45
		ELEMENTO 02.2.2.9.2 BOQUILLAS O.T.D.L. 4.8.2			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			237.120	6.70	1,588.70
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			4.310	6.70	28.88
696.0010N1	m²	FORRO DRENANTE POLIAMIDA			
		FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			26.404	11.26	297.31
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			19.950	7.84	156.41
424.0028N1	m	TUBO DE PVC RANURADO DE DIÁMETRO 200 mm TUBO DE PVC DE DIÁMETRO 200 MM RANURADO SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR, REVESTIDA CON GEOTEXTIL Y RELLENA CON GRAVA FILTRANTE HASTA 25 CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO.			
			14.350	18.77	269.35
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			11.740	113.62	1,333.90
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			17.500	109.05	1,908.38
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			4.390	66.48	291.85
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			8.060	86.69	698.72
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			32.330	33.91	1,096.31
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			43.810	28.44	1,245.96
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,187.150	1.81	3,958.74
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			42.300	37.10	1,569.33
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			93.700	6.74	631.54
		TOTAL ELEMENTO 02.2.2.9.2 BOQUILLAS O.T.D.L. 4.8.2			15,075.38
		TOTAL SUBAPARTADO 02.2.2.9 O.T.D.L. 4.8.2 TUBO Ø 1.80 RAMAL B. ENLACE DA CASILLA			27,777.83

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 02.2.2.10 PROTECCIONES DE ESCOLLERA			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	836.000	6.70	5,601.20
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	467.500	3.47	1,622.23
658.0010	m³ ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.	573.000	37.10	21,258.30
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.	1,145.000	6.74	7,717.30
	TOTAL SUBAPARTADO 02.2.2.10 PROTECCIONES DE ESCOLLERA			36,199.03
	TOTAL APARTADO 02.2.2 ENLACES Y CAMINOS			211,994.80
	TOTAL SUBCAPÍTULO 02.2 DRENAJE TRANSVERSAL			2,358,256.90

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL CAPÍTULO 02 DRENAJE			3,065,280.88

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 03 FIRMES Y PAVIMENTOS			
		SUBCAPÍTULO 03.1 TRONCO			
202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO			
		CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA			
			1,317.510	106.00	139,656.06
211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70			
		BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70			
			606.910	689.00	418,160.99
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60			
		BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			
			175.980	773.80	136,173.32
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			6,075.500	6.70	40,705.85
510.0010	m³	ZAHORRA			
		ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.			
			1,980.400	26.78	53,035.11
513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
			13,175.100	16.45	216,730.40
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO			
		ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			634.640	18.29	11,607.57
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO			
		EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			106.000	624.16	66,160.96
531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA			
		EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			45.270	657.43	29,761.86
542.0050	t	MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			7,030.930	29.35	206,357.80
542.0100	t	MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			8,141.700	29.38	239,203.15
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CA-			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			56,320.000	2.68	150,937.60
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN			
		CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			846.220	59.86	50,654.73
550.0010	m³	PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-4,5 (i/ ARMADURA)			
		PAVIMENTO DE HORMIGÓN ARMADO CONTINUO HF-45 TOTALMENTE TERMINADO, P.P. ARMADURA, JUNTAS Y CURADO CON PRODUCTO FILMÓGENO.			
			5,445.390	246.55	1,342,560.90
551.0010	m³	HORMIGÓN MAGRO EN BASE DE FIRME			
		HORMIGÓN MAGRO VIBRADO EN BASE DE FIRME, COMPLETAMENTE TERMINADO I/ CURADO			
			3,436.890	88.50	304,164.77
551.0020N1	m²	ACABADO FINAL DEL PAVIMENTO			
		ACABADO FINAL (DENUDADO) DE PAVIMENTO CONSISTENTE EN APLICACIÓN DE RETARDADOR DE FRAGUADO Y LÁMINA DE PLÁSTICO EN SUPERFICIE DEL HORMIGÓN DE PAVIMENTO, PARA POSTERIOR BARRIDO Y LAVADO CON AGUA Y EXTENSIÓN DE CAPA FILMÓGENA DE CURADO			
			22,912.500	1.96	44,908.50
		TOTAL SUBCAPÍTULO 03.1 TRONCO.....			3,450,779.57

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBCAPÍTULO 03.2 ENLACES			
		APARTADO 03.2.1 ENLACE DA CASILLA			
202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO			
		CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA			
			153.570	106.00	16,278.42
211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70			
		BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70			
			53.130	689.00	36,606.57
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60			
		BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			
			16.110	773.80	12,465.92
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			135.400	6.70	907.18
510.0010	m³	ZAHORRA			
		ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.			
			314.000	26.78	8,408.92
513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
			1,535.700	16.45	25,262.27
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			67.130	18.29	1,227.81
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			10.110	624.16	6,310.26
531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			4.150	657.43	2,728.33
542.0050	t	MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			648.700	29.35	19,039.35
542.0100	t	MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			679.620	29.38	19,967.24
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APOR-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			75.070	59.86	4,493.69
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			5,156.670	2.68	13,819.88
		TOTAL APARTADO 03.2.1 ENLACE DA CASILLA.....			167,515.84
		TOTAL SUBCAPÍTULO 03.2 ENLACES.....			167,515.84
		SUBCAPÍTULO 03.3 CAMINOS DE SERVICIO-AGRÍCOLAS			
510.0010	m³	ZAHORRA ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.			
			3,288.800	26.78	88,074.06
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			104.380	18.29	1,909.11
530.0020	t	EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			17.400	491.36	8,549.66
533.0020	m²	DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.			
			11,322.850	2.19	24,797.04

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
571.0010N1	m²	PAVIMENTO LOSETA HIDRÁULICA PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.	2,003.800	50.62	101,432.36
999.0321N1	ud	PILONA DE FUNDICIÓN FUSTE FINO 1,00 m SUMINISTRO Y COLOCACIÓN DE BOLARDO MACIZO DE FUNDICIÓN, DE 1,0 M DE ALTURA LIBRE, DE FORMA CILÍNDRICA D=0,1 M, CON BASE RESALTADA Y REFORZADA, COLOCADO EN ÁREAS PAVIMENTADAS, REMATES DE PAVIMENTO Y LIMPIEZA, TERMINADO	502.000	78.09	39,201.18
TOTAL SUBCAPÍTULO 03.3 CAMINOS DE SERVICIO-AGRÍCOLAS.....					263,963.41
TOTAL CAPÍTULO 03 FIRMES Y PAVIMENTOS					3,882,258.82

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 04 TÚNEL DE EIROAS			
		SUBCAPÍTULO 04.1 OBRA CIVIL			
		APARTADO 04.1.1 TÚNEL CALZADA DERECHA			
		SUBAPARTADO 04.1.1.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN COMPLEMENTARIA EN EMBOQUILLES			
342.0230	m	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 mm DE DIÁMETRO BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.	324.000	44.69	14,479.56
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	1,818.640	1.81	3,291.74
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	12.920	113.62	1,467.97
803.0350	m	CERCHA DE TIPO HEB-160 CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	380.550	187.21	71,242.77
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		68.220	269.02	18,352.54
803.0620	m² CHAPA NERVADA O TROQUELADA 2 mm Y 9 ONDAS POR PANEL EN VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.			
		341.120	81.60	27,835.39
	TOTAL SUBAPARTADO 04.1.1.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN			136,669.97
	SUBAPARTADO 04.1.1.2 EXCAVACIÓN			
	ELEMENTO 04.1.1.2.1 SECCIÓN TIPO S-1			
802.0010	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).			
		6,220.500	53.59	333,356.60
802.0020	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).			
		4,946.700	30.67	151,715.29
	TOTAL ELEMENTO 04.1.1.2.1 SECCIÓN TIPO S-1			485,071.89

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ELEMENTO 04.1.1.2.2 SECCIÓN TIPO S-2			
802.0030	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).			
		9,530.380	55.99	533,605.98
802.0040	m³ EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).			
		7,506.820	31.88	239,317.42
	TOTAL ELEMENTO 04.1.1.2.2 SECCIÓN TIPO S-2			772,923.40
	ELEMENTO 04.1.1.2.3 SECCIÓN TIPO S-3			
802.0050	m³ EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			19,400.300	58.38	1,132,589.51
802.0060	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).			
			22,126.480	33.35	737,918.11
		TOTAL ELEMENTO 04.1.1.2.3 SECCIÓN TIPO S-3			1,870,507.62
		ELEMENTO 04.1.1.2.4 SECCIÓN TIPO S-4			
802.0150	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).			
			16,057.800	53.46	858,449.99
802.0160	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16,867.800	28.76	485,117.93
		TOTAL ELEMENTO 04.1.1.2.4 SECCIÓN TIPO S-4			1,343,567.92
		ELEMENTO 04.1.1.2.5 SECCIÓN TIPO S-E			
802.0180	m³	EXCAVACIÓN DE TÚNEL AVANCE, EN BOQUILLAS EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.			
			3,271.600	85.43	279,492.79
802.0190	m³	EXCAVACIÓN DE TÚNEL DESTROZA, EN BOQUILLAS EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.			
			3,636.000	45.69	166,128.84
		TOTAL ELEMENTO 04.1.1.2.5 SECCIÓN TIPO S-E			445,621.63
		TOTAL SUBAPARTADO 04.1.1.2 EXCAVACIÓN			4,917,692.46
		SUBAPARTADO 04.1.1.3 SOSTENIMIENTO			
		ELEMENTO 04.1.1.3.1 SECCIÓN TIPO S-1			
803.0140	m	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			2,475.000	39.15	96,896.25
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			246.680	269.02	66,361.85
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PUESTA EN OBRA.			
			4,935.150	1.14	5,626.07
		TOTAL ELEMENTO 04.1.1.3.1 SECCIÓN TIPO S-1			168,884.17
		ELEMENTO 04.1.1.3.2 SECCIÓN TIPO S-2			
803.0140	m	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN			
		BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			6,969.200	39.15	272,844.18
803.0330	m	CERCHA DE TIPO TH-29			
		CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			2,481.530	137.27	340,639.62
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			1,128.760	269.02	303,659.02
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL			
		FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			22,562.790	1.14	25,721.58
		TOTAL ELEMENTO 04.1.1.3.2 SECCIÓN TIPO S-2			942,864.40
		ELEMENTO 04.1.1.3.3 SECCIÓN TIPO S-3			
803.0140	m	BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN			
		BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			29,958.000	39.15	1,172,855.70
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			2,853.500	269.02	767,648.57
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL			
		FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			57,050.020	1.14	65,037.02
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15			
		MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			7,806.560	49.95	389,937.67
803.0330	m	CERCHA DE TIPO TH-29			
		CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			7,806.560	137.27	1,071,606.49
		TOTAL ELEMENTO 04.1.1.3.3 SECCIÓN TIPO S-3			3,467,085.45
		ELEMENTO 04.1.1.3.4 SECCIÓN TIPO S-4			
803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN			
		MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			11,291.400	93.32	1,053,713.45
803.0350	m	CERCHA DE TIPO HEB-160 CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			17,235.000	187.21	3,226,564.35
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			3,717.000	269.02	999,947.34
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			68,140.800	1.14	77,680.51
803.0220	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			3,211.200	36.87	118,396.94
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			5,407.200	49.95	270,089.64
		TOTAL ELEMENTO 04.1.1.3.4 SECCIÓN TIPO S-4			5,746,392.23

ELEMENTO 04.1.1.3.5 SECCIÓN TIPO S-E

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.			
			1,960.000	93.32	182,907.20
803.0350	m	CERCHA DE TIPO HEB-160 CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			3,523.200	187.21	659,578.27
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			685.600	269.02	184,440.11
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			13,713.600	1.14	15,633.50
803.0220	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			715.200	36.87	26,369.42
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍ-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			1,046.400	49.95	52,267.68
		TOTAL ELEMENTO 04.1.1.3.5 SECCIÓN TIPO S-E			1,121,196.18
		TOTAL SUBAPARTADO 04.1.1.3 SOSTENIMIENTO			11,446,422.43
		SUBAPARTADO 04.1.1.4 TRATAMIENTOS ESPECIALES			
803.0150	m	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 mm DE DIÁMETRO BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			5,217.900	24.32	126,899.33
803.0100	m	BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			357.000	26.04	9,296.28
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			128.900	49.95	6,438.56
803.0510	m	DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.			
			13,520.000	25.50	344,760.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			54.000	56.71	3,062.34
803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.			
			680.650	266.89	181,658.68
804.0200	m³	INYECCIÓN MORTERO DE CEMENTO EN HUECOS EN TRASDÓS REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			27.000	86.41	2,333.07
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			30,629.250	1.14	34,917.35
		TOTAL SUBAPARTADO 04.1.1.4 TRATAMIENTOS ESPECIALES			709,365.61

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.1.1.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA.			
		ELEMENTO 04.1.1.5.1 SECCIÓN TIPO S-1			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			728.480	107.98	78,661.27
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS			
		HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			249.150	113.13	28,186.34
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			202.130	86.69	17,522.65
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN			
		MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			2,249.780	7.94	17,863.25
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			2,285.250	29.11	66,523.63
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			372.080	16.95	6,306.76
		TOTAL ELEMENTO 04.1.1.5.1 SECCIÓN TIPO S-1			215,063.90

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ELEMENTO 04.1.1.5.2 SECCIÓN TIPO S-2			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			1,098.890	107.98	118,658.14
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS			
		HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			375.840	113.13	42,518.78
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			304.900	86.69	26,431.78
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN			
		MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			2,197.790	7.94	17,450.45
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			3,447.270	29.11	100,350.03
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			561.270	16.95	9,513.53
		TOTAL ELEMENTO 04.1.1.5.2 SECCIÓN TIPO S-2			314,922.71
		ELEMENTO 04.1.1.5.3 SECCIÓN TIPO S-3			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	2,204.410	107.98	238,032.19
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	1,210.800	113.13	136,977.80
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.	1,697.620	108.83	184,751.98
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	6,915.310	29.11	201,304.67
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.	1,395.540	16.95	23,654.40
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.	4,408.820	7.94	35,006.03
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			5,669.552	56.71	321,520.29
		TOTAL ELEMENTO 04.1.1.5.3 SECCIÓN TIPO S-3			1,141,247.36
		ELEMENTO 04.1.1.5.4 SECCIÓN TIPO S-4			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	1,589.400	107.98	171,623.41
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	873.000	113.13	98,762.49
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.	1,224.000	108.83	133,207.92
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	4,986.000	29.11	145,142.46
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.	1,006.200	16.95	17,055.09
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			3,178.800	7.94	25,239.67
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			4,087.800	56.71	231,819.14
		TOTAL ELEMENTO 04.1.1.5.4 SECCIÓN TIPO S-4			822,850.18
		ELEMENTO 04.1.1.5.5 SECCIÓN TIPO S-E			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			353.200	107.98	38,138.54
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			194.000	113.13	21,947.22
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.			
			272.000	108.83	29,601.76
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			1,108.000	29.11	32,253.88
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			223.600	16.95	3,790.02
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			706.400	7.94	5,608.82
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			908.400	56.71	51,515.36
		TOTAL ELEMENTO 04.1.1.5.5 SECCIÓN TIPO S-E.....			182,855.60
		TOTAL SUBAPARTADO 04.1.1.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA.			2,676,939.75
		SUBAPARTADO 04.1.1.6 ACABADOS			
		ELEMENTO 04.1.1.6.1 SECCIÓN S-1			
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			493.350	56.71	27,977.88
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
			495.000	75.60	37,422.00
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			165.000	107.09	17,669.85
		TOTAL ELEMENTO 04.1.1.6.1 SECCIÓN S-1			83,069.73
		ELEMENTO 04.1.1.6.2 SECCIÓN S-2			
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
			746.700	75.60	56,450.52
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			744.211	56.71	42,204.21
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			248.900	107.09	26,654.70
		TOTAL ELEMENTO 04.1.1.6.2 SECCIÓN S-2			125,309.43
		ELEMENTO 04.1.1.6.3 SECCIÓN S-3			
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,497.900	75.60	113,241.24
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			1,078.488	56.71	61,161.05
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			499.300	107.09	53,470.04
		TOTAL ELEMENTO 04.1.1.6.3 SECCIÓN S-3			227,872.33
		ELEMENTO 04.1.1.6.4 SECCIÓN S-4			
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
			1,080.000	75.60	81,648.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			777.600	56.71	44,097.70
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		360.000	107.09	38,552.40
	TOTAL ELEMENTO 04.1.1.6.4 SECCIÓN S-4			164,298.10
	ELEMENTO 04.1.1.6.5 SECCIÓN S-E			
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
		240.000	75.60	18,144.00
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
		172.800	56.71	9,799.49
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
		80.000	107.09	8,567.20
	TOTAL ELEMENTO 04.1.1.6.5 SECCIÓN S-E			36,510.69
	TOTAL SUBAPARTADO 04.1.1.6 ACABADOS			637,060.28

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 04.1.1.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			
	ELEMENTO 04.1.1.7.1 SECCIÓN S-1			
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
		2,454.380	20.24	49,676.65
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
		2,454.375	6.74	16,542.49
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
		2,454.380	1.24	3,043.43
805.0031N1	m DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
		165.000	25.40	4,191.00
	TOTAL ELEMENTO 04.1.1.7.1 SECCIÓN S-1			73,453.57
	ELEMENTO 04.1.1.7.2 SECCIÓN S-2			
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTAN-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		QUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			3,702.390	20.24	74,936.37
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			3,702.388	6.74	24,954.10
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			3,702.390	1.24	4,590.96
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			248.900	25.40	6,322.06
		TOTAL ELEMENTO 04.1.1.7.2 SECCIÓN S-2			110,803.49
		ELEMENTO 04.1.1.7.3 SECCIÓN S-3			
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			7,691.720	20.24	155,680.41
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EL PLIEGO.			
			7,691.717	6.74	51,842.17
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			7,691.720	1.24	9,537.73
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			499.300	25.40	12,682.22
805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			
			24.965	56.65	1,414.27
		TOTAL ELEMENTO 04.1.1.7.3 SECCIÓN S-3			231,156.80
		ELEMENTO 04.1.1.7.4 SECCIÓN S-4			
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			5,551.200	6.74	37,415.09
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTAN-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		QUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			5,551.200	20.24	112,356.29
805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.			
			2,221.200	12.30	27,320.76
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			5,551.200	1.24	6,883.49
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			360.000	25.40	9,144.00
805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			
			18.000	56.65	1,019.70
		TOTAL ELEMENTO 04.1.1.7.4 SECCIÓN S-4			194,139.33
		ELEMENTO 04.1.1.7.5 SECCIÓN S-E			
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			1,232.400	20.24	24,943.78
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			1,232.400	6.74	8,306.38
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			1,232.400	1.24	1,528.18
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			80.000	25.40	2,032.00
805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			
			4.000	56.65	226.60
		TOTAL ELEMENTO 04.1.1.7.5 SECCIÓN S-E			37,036.94
		TOTAL SUBAPARTADO 04.1.1.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			646,590.13

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.1.1.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			
		ELEMENTO 04.1.1.8.1 SECCIÓN S-1			
803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO			
		SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
			4.130	94.86	391.77
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL			
		PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			10.730	1.36	14.59
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL			
		MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			10.730	21.54	231.12
		TOTAL ELEMENTO 04.1.1.8.1 SECCIÓN S-1			637.48
		ELEMENTO 04.1.1.8.2 SECCIÓN S-2			
803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO			
		SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
			6.220	94.86	590.03
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL			
		PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			21.160	1.36	28.78
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			21.160	21.54	455.79
306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE			
		SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
			6.220	190.19	1,182.98
		TOTAL ELEMENTO 04.1.1.8.2 SECCIÓN S-2			2,257.58
		ELEMENTO 04.1.1.8.3 SECCIÓN S-3			
803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO			
		SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
			24.970	94.86	2,368.65
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL			
		PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			49.930	1.36	67.90
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL			
		MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			49.930	21.54	1,075.49
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA			
		CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			22.470	693.23	15,576.88
306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
			49.930	190.19	9,496.19
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			3.245	38.17	123.86
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			23.217	262.68	6,098.64
		TOTAL ELEMENTO 04.1.1.8.3 SECCIÓN S-3			34,807.61
		ELEMENTO 04.1.1.8.4 SECCIÓN S-4			
803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
			36.000	94.86	3,414.96
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			45.000	1.36	61.20
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			45.000	21.54	969.30
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			63.000	693.23	43,673.49
306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
			54.000	190.19	10,270.26
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			9.000	38.17	343.53
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			63.000	262.68	16,548.84
807.0054N1	ud	EXTENSÓMETRO DE TRES VARILLAS EXTENSÓMETRO DE TRES VARILLAS.			
			27.000	2,236.84	60,394.68
		TOTAL ELEMENTO 04.1.1.8.4 SECCIÓN S-4			135,676.26
		ELEMENTO 04.1.1.8.5 SECCIÓN S-E			
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			10.000	1.36	13.60
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			10.000	21.54	215.40
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA			
		CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			14.000	693.23	9,705.22
807.0051N1	ud	CAJA DE TERMINALES			
		CAJA DE TERMINALES			
			2.000	38.17	76.34
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
		EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			14.000	262.68	3,677.52
		TOTAL ELEMENTO 04.1.1.8.5 SECCIÓN S-E			13,688.08
		ELEMENTO 04.1.1.8.6 OTROS CONTROLES			
807.0056N1	m	CABLE APANTALLADO PARA AUSCULTACIÓN			
		CABLE APANTALLADO PARA AUSCULTACIÓN.			
			700.000	2.23	1,561.00
306.0230	m	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm			
		TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.			
			60.000	33.00	1,980.00
306.0250	ud	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO			
		INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.			
			2.000	600.00	1,200.00

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
807.0057N1	ud	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS			
		REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS.			
			10.000	14.36	143.60
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS			
		HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.			
			4.000	104.56	418.24
807.0058N1	ud	REGISTRO SISMOGRÁFICO DE VIBRACIONES			
		REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.			
			1.000	2,195.38	2,195.38
807.0059N1	ud	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS			
		ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.			
			1.000	282.94	282.94
807.0060N1	mes	AUSCULTACIÓN Y CONTROL DE TÚNELES			
		AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.			
			12.000	25,458.44	305,501.28
		TOTAL ELEMENTO 04.1.1.8.6 OTROS CONTROLES.....			313,282.44
		TOTAL SUBAPARTADO 04.1.1.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			500,349.45
		TOTAL APARTADO 04.1.1 TÚNEL CALZADA DERECHA.....			21,671,090.08

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 04.1.2 TÚNEL CALZADA IZQUIERDA			
		SUBAPARTADO 04.1.2.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN COMPLEMENTARIA EN EMBOQUILLES			
342.0230	m	BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 mm DE DIÁMETRO			
		BULÓN ACTIVO PARA PROTECCIÓN DE TALUDES DE 32 MM DE DIÁMETRO, COLOCADO EN ESTABILIZACIÓN DE TALUDES, I/ PERFORACIÓN DEL TALADRO, INYECCIÓN CON CEMENTO DE ALTA RESISTENCIA INICIAL Y TESADO DEL BULÓN CON GATO HIDRÁULICO.			
			318.000	44.69	14,211.42
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			12.920	113.62	1,467.97
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,818.640	1.81	3,291.74
803.0350	m	CERCHA DE TIPO HEB-160			
		CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			380.550	187.21	71,242.77
803.0620	m²	CHAPA NERVADA O TROQUELADA 2 mm Y 9 ONDAS POR PANEL EN VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES			
		CHAPA NERVADA O TROQUELADA DE 2 MM DE ESPESOR Y 9 ONDAS POR PANEL EN FORMACIÓN DE VISERAS DE PROTECCIÓN DE EMBOQUILLE DE TÚNELES.			
			341.120	81.60	27,835.39
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			68.220	269.02	18,352.54
		TOTAL SUBAPARTADO 04.1.2.1 MEDIDAS DE SOSTENIMIENTO Y PROTECCIÓN			136,401.83
		SUBAPARTADO 04.1.2.2 EXCAVACIÓN			
		ELEMENTO 04.1.2.2.1 SECCIÓN TIPO S-1			
802.0010	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA			
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).			
			5,881.200	53.59	315,173.51
802.0020	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "A" Y RMR>65, MEDIANTE PERFORACIÓN Y VOLADURA			
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "A" Y RMR>65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MAYOR DE 65).			
			4,676.880	30.67	143,439.91
		TOTAL ELEMENTO 04.1.2.2.1 SECCIÓN TIPO S-1			458,613.42
		ELEMENTO 04.1.2.2.2 SECCIÓN TIPO S-2			
802.0030	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).			
			9,266.180	55.99	518,813.42
802.0040	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "B" Y RMR >50 Y RMR<65 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "B" Y RMR >50 Y RMR<65. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 50 Y 65).			
			7,298.720	31.88	232,683.19
		TOTAL ELEMENTO 04.1.2.2.2 SECCIÓN TIPO S-2			751,496.61
		ELEMENTO 04.1.2.2.3 SECCIÓN TIPO S-3			
802.0050	m³	EXCAVACIÓN DE TÚNEL EN AVANCE, TERRENO CLASE "C" Y RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE AVANCE, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).			
			19,272.080	58.38	1,125,104.03
802.0060	m³	EXCAVACIÓN DE TÚNEL EN DESTROZA, TERRENO CLASE "C" Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RMR >35 Y RMR<50 MEDIANTE PERFORACIÓN Y VOLADURA EXCAVACIÓN DE TÚNEL EN SECCIÓN DE DESTROZA, MEDIANTE PERFORACIÓN Y VOLADURA I/ SUMINISTRO DE EXPLOSIVOS, ARRANQUE DEL MATERIAL, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS EN TERRENO CLASE "C" Y RMR >35 Y RMR<50. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO ENTRE 35 Y 50).			
			21,980.240	33.35	733,041.00
		TOTAL ELEMENTO 04.1.2.2.3 SECCIÓN TIPO S-3			1,858,145.03
		ELEMENTO 04.1.2.2.4 SECCIÓN TIPO S-4			
802.0150	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL AVANCE, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).			
			18,288.050	53.46	977,679.15
802.0160	m³	EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN EXPLOSIVOS EXCAVACIÓN POR MEDIOS MECÁNICOS EN TÚNEL DESTROZA, EN ROCA DE CALIDAD MALA, SIN AYUDA DE EXPLOSIVOS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS, PARA UN RMR ORIENTATIVO MENOR DE 35).			
			19,210.550	28.76	552,495.42
		TOTAL ELEMENTO 04.1.2.2.4 SECCIÓN TIPO S-4			1,530,174.57

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ELEMENTO 04.1.2.2.5 SECCIÓN TIPO S-E			
802.0180	m³ EXCAVACIÓN DE TÚNEL AVANCE, EN BOQUILLAS EXCAVACIÓN DE TÚNEL EN AVANCE, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	3,287.960	85.43	280,890.42
802.0190	m³ EXCAVACIÓN DE TÚNEL DESTROZA, EN BOQUILLAS EXCAVACIÓN DE TÚNEL EN DESTROZA, EN BOQUILLAS I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS.	3,654.180	45.69	166,959.48
	TOTAL ELEMENTO 04.1.2.2.5 SECCIÓN TIPO S-E			447,849.90
	TOTAL SUBAPARTADO 04.1.2.2 EXCAVACIÓN			5,046,279.53
	SUBAPARTADO 04.1.2.3 SOSTENIMIENTO			
	ELEMENTO 04.1.2.3.1 SECCIÓN TIPO S-1			
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	2,340.000	39.15	91,611.00
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	233.220	269.02	62,740.84
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		4,665.960	1.14	5,319.19
	TOTAL ELEMENTO 04.1.2.3.1 SECCIÓN TIPO S-1			159,671.03
	ELEMENTO 04.1.2.3.2 SECCIÓN TIPO S-2			
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	6,776.000	39.15	265,280.40
803.0330	m CERCHA DE TIPO TH-29 CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	2,412.740	137.27	331,196.82
803.0420	m³ HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	1,097.470	269.02	295,241.38
803.0640	kg FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	21,937.300	1.14	25,008.52
	TOTAL ELEMENTO 04.1.2.3.2 SECCIÓN TIPO S-2			916,727.12
	ELEMENTO 04.1.2.3.3 SECCIÓN TIPO S-3			
803.0140	m BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 kN BULÓN DE EXPANSIÓN CON CARGA DE ROTURA DE 240 KN EN TÚNELES I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.	29,760.000	39.15	1,165,104.00

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
803.0330	m	CERCHA DE TIPO TH-29 CERCHA DE TIPO TH-29 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	7,754.960	137.27	1,064,523.36
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	2,834.640	269.02	762,574.85
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	56,672.960	1.14	64,607.17
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	7,754.960	49.95	387,360.25
		TOTAL ELEMENTO 04.1.2.3.3 SECCIÓN TIPO S-3			3,444,169.63
		ELEMENTO 04.1.2.3.4 SECCIÓN TIPO S-4			
803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.	12,859.650	93.32	1,200,062.54
803.0350	m	CERCHA DE TIPO HEB-160			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.	19,628.750	187.21	3,674,698.29
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.	4,233.250	269.02	1,138,828.92
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	77,604.800	1.14	88,469.47
803.0220	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	3,657.200	36.87	134,840.96
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	6,158.200	49.95	307,602.09
		TOTAL ELEMENTO 04.1.2.3.4 SECCIÓN TIPO S-4			6,544,502.27
		ELEMENTO 04.1.2.3.5 SECCIÓN TIPO S-E			
803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.			
			1,969.800	93.32	183,821.74
803.0350	m	CERCHA DE TIPO HEB-160 CERCHA DE TIPO HEB-160 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, ELEMENTOS DE FIJACIÓN AL TERRENO, TRESILLONES DE ARRIOSTRAMIENTO, TORNILLOS, PLACAS, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			3,540.820	187.21	662,876.91
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			689.030	269.02	185,362.85
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			13,782.170	1.14	15,711.67
803.0220	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			718.780	36.87	26,501.42
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,051.630	49.95	52,528.92
		TOTAL ELEMENTO 04.1.2.3.5 SECCIÓN TIPO S-E			1,126,803.51
		TOTAL SUBAPARTADO 04.1.2.3 SOSTENIMIENTO			12,191,873.56
		SUBAPARTADO 04.1.2.4 TRATAMIENTOS ESPECIALES			
803.0150	m	BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 mm DE DIÁMETRO BULÓN DE FIBRA DE VIDRIO EN BARRA MACIZA DE 25 MM DE DIÁMETRO EN SOSTENIMIENTO O TRATAMIENTO DEL FRENTE DE EXCAVACIÓN DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ SUMINISTRO, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			5,660.400	24.32	137,660.93
803.0100	m	BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			361.000	26.04	9,400.44
803.0230	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 8 mm CUADRÍCULA 15 X 15 MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 8 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			135.900	49.95	6,788.21
803.0510	m	DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.			
			15,120.000	25.50	385,560.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			54.000	56.71	3,062.34
803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.	755.860	266.89	201,731.48
804.0200	m³	INYECCIÓN MORTERO DE CEMENTO EN HUECOS EN TRASDÓS REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS INYECCIÓN DE MORTERO DE CEMENTO EN HUECOS EN EL TRASDÓS DE REVESTIMIENTO DE HORMIGÓN "IN SITU" DE TÚNELES Y OBRAS SUBTERRÁNEAS.	27.000	86.41	2,333.07
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.	34,013.700	1.14	38,775.62
		TOTAL SUBAPARTADO 04.1.2.4 TRATAMIENTOS ESPECIALES			785,312.09

SUBAPARTADO 04.1.2.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA

ELEMENTO 04.1.2.5.1 SECCIÓN TIPO S-1

804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	688.740	107.98	74,370.15
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	235.560	113.13	26,648.90
610.0020	m³	HORMIGÓN C20/25			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.	191.100	86.69	16,566.46
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.	2,127.060	7.94	16,888.86
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.	2,160.600	29.11	62,895.07
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.	351.780	16.95	5,962.67
		TOTAL ELEMENTO 04.1.2.5.1 SECCIÓN TIPO S-1			203,332.11

ELEMENTO 04.1.2.5.2 SECCIÓN TIPO S-2

804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.	1,068.430	107.98	115,369.07
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.	365.420	113.13	41,339.96
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE CO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		LOCADO.			
			296.450	86.69	25,699.25
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			2,136.860	7.94	16,966.67
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			3,351.700	29.11	97,567.99
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			545.710	16.95	9,249.78
		TOTAL ELEMENTO 04.1.2.5.2 SECCIÓN TIPO S-2			306,192.72
		ELEMENTO 04.1.2.5.3 SECCIÓN TIPO S-3			
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			6,869.600	29.11	199,974.06
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			1,386.320	16.95	23,498.12
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			1,202.800	113.13	136,072.76
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.			
			1,686.400	108.83	183,530.91
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			2,189.840	107.98	236,458.92
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			5,632.080	56.71	319,395.26
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			4,379.680	7.94	34,774.66
		TOTAL ELEMENTO 04.1.2.5.3 SECCIÓN TIPO S-3			1,133,704.69
		ELEMENTO 04.1.2.5.4 SECCIÓN TIPO S-4			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			1,810.150	107.98	195,460.00
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DE TÚNEL, ACERAS Y ARQUETAS.			
			994.250	113.13	112,479.50
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			3,620.300	7.94	28,745.18
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			5,678.500	29.11	165,301.14
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			1,145.950	16.95	19,423.85
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			4,655.550	56.71	264,016.24
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.			
			1,394.000	108.83	151,709.02
		TOTAL ELEMENTO 04.1.2.5.4 SECCIÓN TIPO S-4			937,134.93
		ELEMENTO 04.1.2.5.5 SECCIÓN TIPO S-E			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TÚNELES Y OBRAS SUBTERRÁNEAS.			
			354.970	107.98	38,329.66
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			194.970	113.13	22,056.96
804.0190	kg	MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN MICRO FIBRA DE POLIPROPILENO DE 164 ºC DE PUNTO DE FUSIÓN PARA MEJORAR LA RESISTENCIA AL FUEGO DEL HORMIGÓN DE REVESTIMIENTO DE TÚNELES.			
			709.930	7.94	5,636.84
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			1,113.540	29.11	32,415.15
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			224.720	16.95	3,809.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			912.942	56.71	51,772.94
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			273.360	108.83	29,749.77
		TOTAL ELEMENTO 04.1.2.5.5 SECCIÓN TIPO S-E			183,770.32
		TOTAL SUBAPARTADO 04.1.2.5 REVESTIMIENTO, SOLERA Y CONTRABÓVEDA			2,764,134.77
		SUBAPARTADO 04.1.2.6 ACABADOS			
		ELEMENTO 04.1.2.6.1 SECCIÓN S-1			
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			466.440	56.71	26,451.81
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
			468.000	75.60	35,380.80
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			156.000	107.09	16,706.04
		TOTAL ELEMENTO 04.1.2.6.1 SECCIÓN S-1			78,538.65
		ELEMENTO 04.1.2.6.2 SECCIÓN S-2			
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			726.000	75.60	54,885.60
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			723.580	56.71	41,034.22
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			242.000	107.09	25,915.78
		TOTAL ELEMENTO 04.1.2.6.2 SECCIÓN S-2			121,835.60
		ELEMENTO 04.1.2.6.3 SECCIÓN S-3			
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			1,071.360	56.71	60,756.83
701.0283N1	m²	PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.			
			1,488.000	75.60	112,492.80
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		496.000	107.09	53,116.64
	TOTAL ELEMENTO 04.1.2.6.3 SECCIÓN S-3			226,366.27
	ELEMENTO 04.1.2.6.4 SECCIÓN S-4			
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.	1,230.000	75.60	92,988.00
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	885.600	56.71	50,222.38
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	410.000	107.09	43,906.90
	TOTAL ELEMENTO 04.1.2.6.4 SECCIÓN S-4			187,117.28
	ELEMENTO 04.1.2.6.5 SECCIÓN S-E			
610.0010N1	m³ HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	173.664	56.71	9,848.49
701.0283N1	m² PANEL DE ALUMINIO EN COLOR DE ANCHO MÍNIMO 1500 mm PANEL DE ALUMINIO EN COLOR A DEFINIR POR LA DIRECCIÓN DE OBRA, LACADOS A DOS CARAS, DE ANCHO MÍNIMO 1500 MM, I/ ESTRUCTURA Y PERFILERÍA DE FIJACIÓN, PARTE PROPORCIONAL DE SERIGRAFÍA DE LOS ELEMENTOS			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SINGULARES COMO SALIDAS DE EMERGENCIA, POSTES SOS, CARTELES DE SEÑALIZACIÓN, ETC...., TOTALMENTE INSTALADO.	241.200	75.60	18,234.72
704.0053N1	m BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).	80.400	107.09	8,610.04
	TOTAL ELEMENTO 04.1.2.6.5 SECCIÓN S-E			36,693.25
	TOTAL SUBAPARTADO 04.1.2.6 ACABADOS			650,551.05
	SUBAPARTADO 04.1.2.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			
	ELEMENTO 04.1.2.7.1 SECCIÓN S-1			
805.0010	m² LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.	2,320.500	20.24	46,966.92
290.0090N1	m² SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.	2,320.500	6.74	15,640.17
805.0020	ud SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,320.500	1.24	2,877.42
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			156.000	25.40	3,962.40
		TOTAL ELEMENTO 04.1.2.7.1 SECCIÓN S-1			69,446.91
		ELEMENTO 04.1.2.7.2 SECCIÓN S-2			
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			242.000	25.40	6,146.80
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			3,599.750	20.24	72,858.94
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			3,599.750	6.74	24,262.32
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			3,599.750	1.24	4,463.69
		TOTAL ELEMENTO 04.1.2.7.2 SECCIÓN S-2			107,731.75
		ELEMENTO 04.1.2.7.3 SECCIÓN S-3			
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			496.000	25.40	12,598.40
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			7,640.880	20.24	154,651.41
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			7,640.880	6.74	51,499.53
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			7,640.880	1.24	9,474.69
805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			24.800	56.65	1,404.92
		TOTAL ELEMENTO 04.1.2.7.3 SECCIÓN S-3			229,628.95
		ELEMENTO 04.1.2.7.4 SECCIÓN S-4			
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			410.000	25.40	10,414.00
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			6,322.200	20.24	127,961.33
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			6,322.200	6.74	42,611.63
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			6,322.200	1.24	7,839.53
805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,529.700	12.30	31,115.31
805.0135N1	ud	IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			
			20.500	56.65	1,161.33
		TOTAL ELEMENTO 04.1.2.7.4 SECCIÓN S-4			221,103.13
		ELEMENTO 04.1.2.7.5 SECCIÓN S-E			
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			1,238.560	20.24	25,068.45
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			1,238.562	6.74	8,347.91
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			1,238.560	1.24	1,535.81
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		80.400	25.40	2,042.16
805.0135N1	ud IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) IMPERMEABILIZACIÓN PRIMARIA MEDIANTE DRENES DE MEDIA CAÑA (SISTEMA OBERHASLI) I/ TALADROS DE CAPTACIÓN, MASILLAS IMPERMEABILIZANTES, UNIONES ENTRE CANALES Y POSTERIOR GUNITADO.			
		4.020	56.65	227.73
	TOTAL ELEMENTO 04.1.2.7.5 SECCIÓN S-E			37,222.06
	TOTAL SUBAPARTADO 04.1.2.7 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			665,132.80
	SUBAPARTADO 04.1.2.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			
	ELEMENTO 04.1.2.8.1 SECCIÓN S-1			
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
		3.900	94.86	369.95
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
		10.140	1.36	13.79
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
		10.140	21.54	218.42
	TOTAL ELEMENTO 04.1.2.8.1 SECCIÓN S-1			602.16
	ELEMENTO 04.1.2.8.2 SECCIÓN S-2			
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
		6.050	94.86	573.90
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
		20.570	1.36	27.98
807.0040	ud MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
		20.570	21.54	443.08
306.0103N1	m SONDEO HORIZONTAL POR DELANTE DEL FRENTE SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
		6.050	190.19	1,150.65
	TOTAL ELEMENTO 04.1.2.8.2 SECCIÓN S-2			2,195.61
	ELEMENTO 04.1.2.8.3 SECCIÓN S-3			
803.0500	m SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			
		24.800	94.86	2,352.53
807.0020	ud PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			49.600	1.36	67.46
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			49.600	21.54	1,068.38
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			22.320	693.23	15,472.89
306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
			49.600	190.19	9,433.42
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			3.224	38.17	123.06
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			23.064	262.68	6,058.45
		TOTAL ELEMENTO 04.1.2.8.3 SECCIÓN S-3			34,576.19
		ELEMENTO 04.1.2.8.4 SECCIÓN S-4			
803.0500	m	SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO SONDEO DE EXPLORACIÓN GEOTÉCNICA EN TÚNEL CON EXTRACCIÓN CONTINUA DE TESTIGO I/ LA PUESTA EN OBRA DE LOS EQUIPOS, LA PERFORACIÓN, LA TESTIFICACIÓN Y LA P.P. DE ENSAYOS DE LABORATORIOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			41.000	94.86	3,889.26
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			51.250	1.36	69.70
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			51.250	21.54	1,103.93
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			71.750	693.23	49,739.25
306.0103N1	m	SONDEO HORIZONTAL POR DELANTE DEL FRENTE SONDEO HORIZONTAL POR DELANTE DEL FRENTE, INCLUSO TODAS LAS OPERACIONES ADICIONALES, INCLUIDOS ENSAYOS DE PENETRACIÓN SPT EN TODA SU LONGITUD, ENSAYOS DE LABORATORIO EN MUESTRAS Y TESTIFICACIÓN POR TÉCNICO COMPETENTE			
			61.500	190.19	11,696.69
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			10.250	38.17	391.24
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			71.750	262.68	18,847.29
807.0054N1	ud	EXTENSÓMETRO DE TRES VARILLAS EXTENSÓMETRO DE TRES VARILLAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			30.750	2,236.84	68,782.83
		TOTAL ELEMENTO 04.1.2.8.4 SECCIÓN S-4			154,520.19
		ELEMENTO 04.1.2.8.5 SECCIÓN S-E			
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			10.050	1.36	13.67
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			10.050	21.54	216.48
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			14.070	693.23	9,753.75
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			2.010	38.17	76.72
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			14.070	262.68	3,695.91
		TOTAL ELEMENTO 04.1.2.8.5 SECCIÓN S-E			13,756.53
		ELEMENTO 04.1.2.8.6 OTROS CONTROLES			
807.0056N1	m	CABLE APANTALLADO PARA AUSCULTACIÓN CABLE APANTALLADO PARA AUSCULTACIÓN.			
			750.000	2.23	1,672.50
306.0230	m	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.			
			90.000	33.00	2,970.00
306.0250	ud	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.			
			3.000	600.00	1,800.00
807.0057N1	ud	REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS REGLETA DE NIVELACIÓN PARA CONTROL TOPOGRÁFICO DE EDIFICIOS.			
			13.000	14.36	186.68
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.			
			4.000	104.56	418.24
807.0058N1	ud	REGISTRO SISMOGRÁFICO DE VIBRACIONES REGISTRO SISMOGRÁFICO DE VIBRACIONES GENERADAS DURANTE LA EXCAVACIÓN CON VOLADURA O MARTILLO DEMOLEDOR, EN EXTERIOR O INTERIOR DE TÚNELES I/ ESTUDIO PREVIO DE DETERMINACIÓN DE UMBRALES Y EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.			
			1.000	2,195.38	2,195.38
807.0059N1	ud	ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS ENSAYO DE REGISTRO DE LA ONDA SÓNICA AÉREA GENERADA POR LAS VOLADURAS DURANTE LA EXCAVACIÓN DEL TÚNEL, EN EXTERIOR O INTERIOR DEL MISMO I/ EL INSTRUMENTAL, LAS MEDICIONES Y EL INFORME CORRESPONDIENTE DE RESULTADOS OBTENIDOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	282.94	282.94
807.0060N1	mes	AUSCULTACIÓN Y CONTROL DE TÚNELES AUSCULTACIÓN Y CONTROL DE TÚNELES, I/ SEGUIMIENTO E INTERPRETACIÓN GEOTÉCNICA, CONTROL TOPOGRÁFICO, INFORME DE RESULTADOS Y CONCLUSIONES DE PERSONAL DE EQUIPOS DE MEDIDA Y MEDIOS AUXILIARES.			
			12.000	25,458.44	305,501.28
		TOTAL ELEMENTO 04.1.2.8.6 OTROS CONTROLES.....			315,027.02
		TOTAL SUBAPARTADO 04.1.2.8 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			520,677.70
		TOTAL APARTADO 04.1.2 TÚNEL CALZADA IZQUIERDA.....			22,760,363.33
		APARTADO 04.1.3 EMBOQUILLES Y FALSOS TÚNELES			
		SUBAPARTADO 04.1.3.1 EMBOQUILLE 1 - OESTE			
		ELEMENTO 04.1.3.1.1 PANTALLA			
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			600.170	28.44	17,068.83
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			178.640	109.05	19,480.69
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			27,970.750	1.81	50,627.06
675.1260	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.			
			192.000	145.98	28,028.16
675.1012N1	m	ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (3 CABLES) ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).			
			1,548.000	98.09	151,843.32
675.1013N1	m	ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (4 CABLES) ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).			
			556.000	104.82	58,279.92
803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.			
			59.550	266.89	15,893.30
413.0030	m	DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD			
			216.000	28.87	6,235.92
803.0303N1	m²	MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			595.589	13.89	8,272.73
671.1001N1	ud	TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES			
			1.000	3,504.28	3,504.28
803.0613N1	m	MICROPILOTE DE DIÁMETRO NOMINAL 219,1 mm, TUB 193,7-10 Y ACERO N-80 MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.			
			2,036.910	279.16	568,623.80
		TOTAL ELEMENTO 04.1.3.1.1 PANTALLA.....			927,858.01
		ELEMENTO 04.1.3.1.2 BÓVEDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			3,811.800	6.70	25,539.06
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			340.370	3.47	1,181.08
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			324.030	28.44	9,215.41
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			31.300	33.91	1,061.38
804.0151N1	m²	ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEA ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			1,735.640	25.52	44,293.53
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			1,501.960	29.11	43,722.06
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			112.440	66.48	7,475.01
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			734.920	109.05	80,143.03
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			869.550	113.62	98,798.27
681.0010	m³	CIMBRA CUAJADA			
		CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			8,019.970	12.21	97,923.83
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			3,090.730	2.32	7,170.49
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS			
		LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			1,736.230	10.55	18,317.23
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm			
		TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			138.920	16.21	2,251.89
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			237,183.980	1.81	429,303.00
		TOTAL ELEMENTO 04.1.3.1.2 BÓVEDA.....			866,395.27
		ELEMENTO 04.1.3.1.3 TRATAMIENTOS EN TALUDES DE DESMONTE			
342.0200	m	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO			
		BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			888.000	27.21	24,162.48
413.0030	m	DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA			
		DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD			
			48.000	28.87	1,385.76
803.0441N1	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES			
		HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.			
			72.830	209.05	15,225.11
		TOTAL ELEMENTO 04.1.3.1.3 TRATAMIENTOS EN TALUDES DE DESMONTE			40,773.35
		ELEMENTO 04.1.3.1.4 MUROS EN BOQUILLAS Y RELLENOS			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			640.000	6.70	4,288.00
658.0080	m³	MURO DE ESCOLLERA CON BLOQUES DE 1000 A 3000 kg O SUPERIOR MURO DE ESCOLLERA COLOCADA CON BLOQUES DE 1000 A 3000 KG (USO HMB 1000/3000) O DE PESO SUPERIOR, CONFORME A UNE EN 13383-1 I/ RELLENO DEL TRASDÓS CON MATERIAL FILTRANTE.			
			4,805.050	68.11	327,271.96
610.0020	m³	HORMIGÓN C20/25 HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			192.000	86.69	16,644.48
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			29.700	56.71	1,684.29
		TOTAL ELEMENTO 04.1.3.1.4 MUROS EN BOQUILLAS Y RELLENOS			349,888.73
		TOTAL SUBAPARTADO 04.1.3.1 EMBOQUILLE 1 - OESTE			2,184,915.36

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.1.3.2 EMBOQUILLE 2 - ESTE			
		ELEMENTO 04.1.3.2.1 PANTALLA			
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			1,509.600	28.44	42,933.02
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			444.690	109.05	48,493.44
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			69,694.660	1.81	126,147.33
675.1260	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B RETESABLE, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.			
			518.000	145.98	75,617.64
675.1012N1	m	ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (3 CABLES) ANCLAJE TIPO 1 (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).			
			6,199.000	98.09	608,059.91

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
675.1013N1	m	ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (4 CABLES) ANCLAJE TIPO 1 (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	496.000	104.82	51,990.72
675.1014N1	m	ANCLAJE PROVISIONAL CON INYECCIÓN ÚNICA GLOBAL (IU) TIPO 1 (5 CABLES) ANCLAJE TIPO 1 (5 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).	397.000	94.12	37,365.64
803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.	215.040	266.89	57,392.03
413.0030	m	DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD	648.000	28.87	18,707.76
803.0303N1	m²	MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.	2,150.011	13.89	29,863.65
671.1001N1	ud	TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TRANSPORTE, MONTAJE Y RETIRADA DE EQUIPO DE MICROPILOTES	1.000	3,504.28	3,504.28
803.0613N1	m	MICROPILOTE DE DIÁMETRO NOMINAL 219,1 mm, TUB 193,7-10 Y ACERO N-80 MICROPILOTE DE DIÁMETRO NOMINAL 219,1 MM, CON TUBO DE ACERO N-80 DE DIÁMETRO EXTERIOR 193,7 MM Y ESPESOR DE 10 MM, DE ACERO DE LÍMITE ELÁSTICO FY = 56000 KP/CM2, I/ PERFORACIÓN DE DIÁMETRO 225 MM, BARRAS DE ACERO CORRUGADO B 500 SD SOLDADAS Y RELLENO DE LECHADA DE FCK > 25 MPA.	6,730.770	279.16	1,878,961.75
		TOTAL ELEMENTO 04.1.3.2.1 PANTALLA.....			2,979,037.17
		ELEMENTO 04.1.3.2.2 BÓVEDA			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	19,136.630	6.70	128,215.42
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	1,709.530	3.47	5,932.07
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			1,645.580	28.44	46,800.30
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			30.140	33.91	1,022.05
804.0151N1	m²	ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEA ENCOFRADO CURVO OCULTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			8,966.190	25.52	228,817.17
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			
			7,738.790	29.11	225,276.18
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			569.970	66.48	37,891.61
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			3,696.070	109.05	403,056.43
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			4,399.260	113.62	499,843.92
681.0010	m³	CIMBRA CUAJADA CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			40,332.900	12.21	492,464.71
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			15,807.410	2.32	36,673.19
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			8,969.150	10.55	94,624.53
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			632.580	16.21	10,254.12
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		1,267,155.420	1.81	2,293,551.31
	TOTAL ELEMENTO 04.1.3.2.2 BÓVEDA.....			4,504,423.01

ELEMENTO 04.1.3.2.3 TRATAMIENTOS EN TALUDES DE DESMONTE

342.0200 m BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO

BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.

3,046.000	27.21	82,881.66	

413.0030 m DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 mm RANURADO PARA DRENAJE EN TALUD DE DESMONTE i/SUMINISTRO TRA

DREN CALIFORNIANO FORMADO POR TUBO DE PVC DE DIÁMETRO DE HASTA 75 MM RANURADO PARA DRENAJE EN TALUD DE DESMONTE I/SUMINISTRO TRANSPORTE A OBRA PERFORACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN DE LA UNIDAD

192.000	28.87	5,543.04	

803.0441N1 m³ HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES

HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.

192.600	209.05	40,263.03	

803.0303N1 m² MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10

MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.

653.600	13.89	9,078.50	
TOTAL ELEMENTO 04.1.3.2.3 TRATAMIENTOS EN TALUDES DE DESMONTE			137,766.23

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)

ELEMENTO 04.1.3.2.4 MUROS EN BOQUILLAS Y RELLENOS

321.0010 m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO

EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.

202.170	6.70	1,354.54	

610.0020 m³ HORMIGÓN C20/25

HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.

56.410	86.69	4,890.18	

658.0082N1 m³ MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO PROCEDENTE DE CANTERA

MURO DE MAMPOSTERÍA EN SECO CON BLOQUES DE GRANITO REGULARES (PARALELEPÍPEDOS) PROCEDENTE DE CANTERA. INCLUYE EL SUMINISTRO Y COLOCACIÓN DE LOS BLOQUES DE PIEDRA, EJECUCIÓN DE JUNTAS ENTRE BLOQUES Y TODOS AQUELLOS TRABAJOS Y MATERIALES NECESARIOS PARA SU COMPLETA TERMINACIÓN.

2,187.000	63.18	138,174.66	
TOTAL ELEMENTO 04.1.3.2.4 MUROS EN BOQUILLAS Y RELLENOS			144,419.38
TOTAL SUBAPARTADO 04.1.3.2 EMBOQUILLE 2 - ESTE.....			7,765,645.79
TOTAL APARTADO 04.1.3 EMBOQUILLES Y FALSOS TÚNELES			9,950,561.15

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 04.1.4 GALERÍAS DE CONEXIÓN			
		SUBAPARTADO 04.1.4.1 ENTRONQUE GALERÍA - TÚNEL SUBTERRÁNEO			
803.0580	m	MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 mm DE DIÁMETRO DE PERFORACIÓN			
		MICROPILOTE EN INTERIOR DE TÚNEL O EN PROTECCIÓN DE EMBOQUILLES DE 150 MM DE DIÁMETRO DE PERFORACIÓN, ARMADURA TUBULAR DE ACERO S355 DE 101,6 MM DE DIÁMETRO EXTERIOR Y 10 MM DE ESPESOR I/ INYECCIÓN DE LECHADA DE CEMENTO.			
			440.000	93.32	41,060.80
803.0100	m	BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 32 mm			
		BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 32 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			1,992.000	26.04	51,871.68
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			152.220	107.98	16,436.72
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			18,938.700	1.81	34,279.05
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			106.560	29.11	3,101.96
301.0030	m³	DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA			
		DEMOLICIÓN DE FÁBRICA HORMIGÓN EN MASA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			43.620	30.20	1,317.32
		TOTAL SUBAPARTADO 04.1.4.1 ENTRONQUE GALERÍA - TÚNEL SUBTERRÁNEO.....			148,067.53
		SUBAPARTADO 04.1.4.2 EXCAVACIÓN			
802.0200	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, EN TERRENOS DE CALIDAD BUENA			
		EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD BUENA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).			
			805.160	64.40	51,852.30
802.0210	m³	EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, EN TERRENOS DE CALIDAD MALA			
		EXCAVACIÓN CON EXPLOSIVOS O MEDIOS MECÁNICOS EN GALERÍAS, A SECCIÓN COMPLETA, EN TERRENOS DE CALIDAD MALA I/ CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO, Y EN SU CASO, FORMACIÓN DE VERTEDERO Y TODOS LOS MEDIOS Y LAS INSTALACIONES AUXILIARES NECESARIAS. (NOTA: LA CLASE DE TERRENO SE DEFINIRÁ EN PLANOS Y PLIEGO, SEGÚN CARACTERÍSTICAS LITOLÓGICAS).			
			506.400	73.60	37,271.04
		TOTAL SUBAPARTADO 04.1.4.2 EXCAVACIÓN.....			89,123.34

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.1.4.3 SOSTENIMIENTO			
803.0090	m	BULÓN PASIVO EN TÚNEL Y GALERÍAS CON BARRA DE ACERO CORRUGADO DE DIÁMETRO 25 mm			
		BULÓN DE ANCLAJE PASIVO, EN TÚNEL Y GALERÍAS, CON BARRA DE ACERO CORRUGADO DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			890.780	23.51	20,942.24
803.0320	m	CERCHA DE TIPO TH-21			
		CERCHA DE TIPO TH-21 EN CUALQUIER DISPOSICIÓN I/ SUMINISTRO, GRAPAS, ELEMENTOS DE FIJACIÓN AL TERRENO, BRIDAS DE SUJECIÓN, TRESILLONES DE ARRIOSTRAMIENTO, MONTAJE Y DEMÁS OPERACIONES NECESARIAS.			
			257.550	105.83	27,256.52
803.0420	m³	HORMIGÓN PROYECTADO H/MP/30 EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN SOSTENIMIENTO DE TÚNELES Y OBRAS SUBTERRÁNEAS I/ LOS ADITIVOS NECESARIOS Y P.P. POR RECHAZO EN LA COLOCACIÓN, SIN ADICIÓN DE FIBRAS.			
			132.830	269.02	35,733.93
803.0640	kg	FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL			
		FIBRA DE ACERO ESTRUCTURAL PARA EMPLEO EN HORMIGONES PROYECTADOS EN TÚNEL I/ MANIPULACIÓN Y PUESTA EN OBRA.			
			2,655.990	1.14	3,027.83
803.0210	m²	MALLA ELECTROSOLDADA SOSTENIMIENTO TÚNELES ACERO CORRUGADO B 500 T DE DIÁMETRO 6 mm CUADRÍCULA 15 X 15			
		MALLA ELECTROSOLDADA EN SOSTENIMIENTO DE TÚNELES CON ACERO CORRUGADO B 500 T DE Ø 6 MM EN CUADRÍCULA 15 X 15, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			257.550	36.55	9,413.45
		TOTAL SUBAPARTADO 04.1.4.3 SOSTENIMIENTO.....			96,373.97

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.1.4.4 TRATAMIENTOS ESPECIALES			
803.0510	m	DREN CON TUBO RANURADO DE PVC DE 50 mm DE DIÁMETRO EN EL FRENTE			
		DREN CON TUBO RANURADO DE PVC DE 50 MM DE DIÁMETRO EN EL FRENTE DE TÚNEL I/ PERFORACIÓN.			
			39.100	25.50	997.05
803.0490	m³	HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL			
		HORMIGÓN PROYECTADO H/MP/30 EN CAPA DE SELLADO DE FRENTE DE TÚNEL.			
			9.780	266.89	2,610.18
		TOTAL SUBAPARTADO 04.1.4.4 TRATAMIENTOS ESPECIALES.....			3,607.23
		SUBAPARTADO 04.1.4.5 REVESTIMIENTO, SOLERAS, CONTRABÓVEDAS			
804.0030	m³	HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN C30/37 EN REVESTIMIENTO DE BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS.			
			195.810	107.98	21,143.56
804.0070	m³	HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS			
		HORMIGÓN C30/37 EN MUROS DE ARRANQUE, ZAPATAS DE TÚNEL, ACERAS Y ARQUETAS.			
			77.700	113.13	8,790.20
804.0120	m³	HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		HORMIGÓN C30/37 EN LOSAS DE TÚNELES Y OBRAS SUBTERRÁNEAS SIN INCLUIR ENCOFRADO.			
			68.820	108.83	7,489.68
804.0150	m²	ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS			
		ENCOFRADO CURVO VISTO EN BÓVEDAS DE TÚNELES Y OBRAS SUBTERRÁNEAS, PARA CUALQUIER SECCIÓN I/ CIMBRA O CARRO AUTOPORTANTE.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			579.970	29.11	16,882.93
804.0180	m²	ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS ENCOFRADO RECTO OCULTO EN TÚNELES Y OBRAS SUBTERRÁNEAS.			
			81.590	16.95	1,382.95
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			89.355	56.71	5,067.32
		TOTAL SUBAPARTADO 04.1.4.5 REVESTIMIENTO, SOLERAS, CONTRABÓVEDAS.....			60,756.64
		SUBAPARTADO 04.1.4.6 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			
805.0010	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN PRINCIPAL DE TÚNEL I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, CARRO O ANDAMIO DE MONTAJE, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.			
			530.030	20.24	10,727.81
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			530.025	6.74	3,572.37
805.0020	ud	SUPLEMENTO POR m² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL SUPLEMENTO POR M² DE GEOTEXTIL DE CUALQUIER TIPO COLOCADO EN INTERIOR DE TÚNEL. (A SUMAR AL PRECIO DEL M² DE GEOTEXTIL A CIELO ABIERTO).			
			530.030	1.24	657.24

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
805.0031N1	m	DREN DE TRASDÓS Ø 110 mm i/ MATERIAL FILTRANTE Y GEOTEXTIL DREN DE TRASDÓS Ø 110 MM I/ MATERIAL FILTRANTE Y GEOTEXTIL.			
			111.000	25.40	2,819.40
		TOTAL SUBAPARTADO 04.1.4.6 IMPERMEABILIZACIÓN Y DRENAJE DEL TRASDÓS			17,776.82
		SUBAPARTADO 04.1.4.7 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			
807.0020	ud	PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TUNEL PERNO DE CONVERGENCIA PARA CINTA EXTENSOMÉTRICA DE MEDIDA DE CONVERGENCIAS EN TÚNEL.			
			17.950	1.36	24.41
807.0040	ud	MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL MONTAJE DE UN PERNO O DIANA DE PUNTERÍA PARA CONVERGENCIAS EN TÚNEL.			
			17.950	21.54	386.64
807.0010	ud	CÉLULA DE PRESIÓN DE 3 MPa DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA CÉLULA DE PRESIÓN DE 3 MPA DE RANGO Y PRECISIÓN DE 0,5% DE FONDO DE ESCALA I/ P.P. DE CABLEADO, INSTALACIÓN Y CENTRALIZACIÓN EN ARMARIO DE INTEMPERIE.			
			2.070	693.23	1,434.99
807.0051N1	ud	CAJA DE TERMINALES CAJA DE TERMINALES			
			3.115	38.17	118.90
807.0053N1	ud	EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE EXTENSÓMETRO O SENSOR DE CUERDA VIBRANTE			
			2.072	262.68	544.27
807.0056N1	m	CABLE APANTALLADO PARA AUSCULTACIÓN CABLE APANTALLADO PARA AUSCULTACIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			44.999	2.23	100.35
		TOTAL SUBAPARTADO 04.1.4.7 AUSCULTACIÓN Y CONTROL GEOTÉCNICO			2,609.56
		TOTAL APARTADO 04.1.4 GALERÍAS DE CONEXIÓN.....			418,315.09
		APARTADO 04.1.5 DRENAJE DE TÚNEL			
		SUBAPARTADO 04.1.5.1 COLECTORES Y CACES			
413.0010N4	m	CAZ PREFABRICADO SOBRE SOLERA DE HORMIGÓN DE 400 mm PARA TÚNEL			
		CAZ PREFABRICADO DE DIÁMETRO EQUIVALENTE 400 MM PARA TÚNEL, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, I/ PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.			
			1,811.000	100.54	182,077.94
414.0020	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 300 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 300MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			3,642.000	56.75	206,683.50
414.0060	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 500 mm CLASE 180			
		TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 500MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			1,881.000	81.96	154,166.76
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			870.000	6.70	5,829.00
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			452.400	3.47	1,569.83
610.0020	m³	HORMIGÓN C20/25			
		HORMIGÓN C20/25 VERTIDO, VIBRADO Y TOTALMENTE COLOCADO.			
			348.000	86.69	30,168.12
805.0061N1	m	TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURADO DE PVC DE 110 mm DE DIÁMETRO, EN TÚNEL i/ MATERIAL DE ASIENTO			
		TUBO DE CONEXIÓN AL DRENAJE PRINCIPAL, NO RANURADO DE PVC DE 110 MM DE DIÁMETRO, EN TÚNEL I/ MATERIAL DE ASIENTO CON MORTERO DE 10 CM DE ESPESOR Y RESTO DE MATERIALES PARA SU TOTAL TERMINACIÓN Y PUESTA EN OBRA.			
			269.500	13.93	3,754.14
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS			
		POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			
			6.000	726.46	4,358.76
410.0026N1	ud	ARQUETA SIFÓNICA			
		ARQUETA SIFÓNICA DE HORMIGÓN ARMADO DE 1,20 X 1,45 X 1,45 M DE DIMENSIONES INTERIORES, I/ TAPA, TOTALMENTE COLOCADA EN TÚNEL.			
			41.000	568.03	23,289.23
415.0008N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=30 cm			
		BOQUILLA Y ALETAS PARA TUBO DE 30 CM DE DIÁMETRO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			2.000	1,025.88	2,051.76
413.0010N1	m	CANAL SEMICIRCULAR Ø 30 cm			
		CANAL SEMICIRCULAR DE D=0.30 M INTERIOR, SOBRE SOLERA DE HORMIGÓN HM-20, DE ESPESOR 10 CM, INCLUSO PREPARACIÓN DE LA SUPERFICIE DE ASIENTO Y RECIBIDO DE JUNTAS, TOTALMENTE TERMINADO.			
			119.000	45.81	5,451.39
410.0022N1	ud	ARQUETA DE REGISTRO PARA DRENES 0,50 x 1,20 x 1,00 m			
		ARQUETA DE REGISTRO PARA DRENES DE BASE 0,50 X 1,20 M Y ALTURA 1,00 M, DIMENSIONES INTERIORES. INCLUYE TAPAS DE LAS ARQUETAS, EXCAVACIÓN Y RELLENO.			
			85.000	475.07	40,380.95
411.0011N2	ud	SUMIDERO SIFÓNICO FUNDICIÓN 20 x 20 cm			
		SUMIDERO SIFÓNICO CON REJILLA DE FUNDICIÓN DE DIMENSIONES 600 X 400 X 50 MM, MODELO MINISTERIO DE FOMENTO, TOTALMENTE TERMINADO.			
			8.000	70.54	564.32
		TOTAL SUBAPARTADO 04.1.5.1 COLECTORES Y CACES			660,345.70
		SUBAPARTADO 04.1.5.2 BALSA DE VERTIDOS			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			1,027.800	6.70	6,886.26
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			482.800	3.47	1,675.32
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS			
		POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			
			2.000	726.46	1,452.92
413.0012N1	ud	TAPA DE FUNDICIÓN DÚCTIL, C-250, DE 700 mm DE DIÁMETRO			
		TAPA DE FUNDICIÓN, C-250, DE 700 MM DE DIÁMETRO, I/ SUMINISTRO Y COLOCACIÓN.			
			3.000	58.96	176.88
415.0015N1	ud	BOQUILLA Y ALETAS PARA TUBO Ø=50 cm			
		BOQUILLA Y ALETAS PARA TUBO DE 50 CM DE DIÁMETRO INTERIOR, INCLUYENDO EXCAVACIÓN, RELLENO, ENCOFRADO Y HORMIGÓN, TOTALMENTE TERMINADA.			
			1.000	1,172.77	1,172.77
418.0010	ud	PATE DE ACERO REVESTIDO CON POLIPROPILENO			
		PATE DE ACERO REVESTIDO CON POLIPROPILENO			
			58.000	7.13	413.54
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			6,439.790	1.81	11,656.02
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			110.380	66.48	7,338.06
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			27.350	109.05	2,982.52
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			73.770	113.62	8,381.75
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			233.480	28.44	6,640.17
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			273.580	33.91	9,277.10
704.0192N1	m²	PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 mm DE ESPESOR			
		PANTALLA DEFLECTORA DE ACERO GALVANIZADO DE 5 MM DE ESPESOR, I/ PARTE PROPORCIONAL DE SUJECCIONES O APOYOS, TOTALMENTE INSTALADA Y COLACADA.			
			10.440	56.92	594.24
805.0131N1	m²	RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RECUBRIMIENTO SUPERFICIAL ANTIÁCIDO.			
			332.595	10.28	3,419.08
805.0132N1	ud	CODO DE 90º DE FUNDICIÓN DÚCTIL, D = 200 mm, PN16			
		SUMINISTRO Y MONTAJE DE CODO DE 90º DE FUNDICIÓN DÚCTIL DE 200 MM DE DIÁMETRO PARA UNA PRESIÓN PN16.			
			2.000	137.51	275.02
915.0012N1	m	CERRAMIENTO DE 2 m COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN			
		CERRAMIENTO DE 2,0 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3 M, ARRIOSTRAMIENTO CADA 30 M Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS.			
			45.000	19.92	896.40
915.0021N1	ud	PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 x 2,00 m), TOTALMENTE COLOCADA			
		PUERTA PARA CERRAMIENTO DE DOS HOJAS (1,5 X 2,00 M), TOTALMENTE COLOCADA.			
			1.000	568.22	568.22
930.0002N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 200 mm			
		TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 200 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
			5.000	141.23	706.15
999.0307N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 200 mm			
		VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE			
			2.000	876.34	1,752.68
		TOTAL SUBAPARTADO 04.1.5.2 BALSA DE VERTIDOS			66,265.10
		TOTAL APARTADO 04.1.5 DRENAJE DE TÚNEL			726,610.80

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	APARTADO 04.1.6 REPARACIONES			
999.0100N1	PA POSIBLES REPARACIONES POR CONSTRUCCIÓN DEL TÚNEL Y EXCAVACIONES PARTIDA ALZADA A JUSTIFICAR PARA POSIBLES REPARACIONES POR POSIBLES DAÑOS IMPREVISTOS PRODUCIDOS POR LA CONSTRUCCIÓN DEL TÚNEL Y EXCAVACIONES EN EDIFICACIONES CERCANAS	1.000	50,000.00	50,000.00
	TOTAL APARTADO 04.1.6 REPARACIONES			50,000.00
	TOTAL SUBCAPÍTULO 04.1 OBRA CIVIL			55,576,940.45
	SUBCAPÍTULO 04.2 INSTALACIONES			
	APARTADO 04.2.1 INSTALACIONES TÚNEL EIROAS			
	SUBAPARTADO 04.2.1.1 PROTECCIÓN CONTRA INCENDIOS			
	ELEMENTO 04.2.1.1.1 EQUIPOS DE PROTECCIÓN CONTRA INCENDIOS			
997.0005N1	ud HIDRANTE COLUMNA SECA, 6" CON 3 BOCAS, TOMA RECTA HIDRANTE DE COLUMNA SECA, ANTICHOQUE ANTIHIELO DE 6", CON 3 BOCAS, 1X4" (100) / 2X2 1/2" (70), CON RACORES SEGÚN NORMA UNE, TAPONES ANTIRROBO Y PROFUNDIDAD 485 MM, EN TOMA RECTA A LA RED. MEDIDA LA UNIDAD INSTALADA. CUMPLE CON LA NORMATIVA VIGENTE UNE, SEGÚN SE EXIGE EN EL REGLAMENTO DE INSTALACIONES DE PROTECCIÓN CONTRA INCENDIOS.	4.000	1,285.32	5,141.28
997.0038N1	ud PULSADOR ALAMA DE INCENDIOS PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	16.000	44.12	705.92
997.0009N1	ud ARMARIO METÁLICO BIE CON EXTINTORES (ARMARIO 93 x 71,5 cm) ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	93 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE Y EXTINTORES DE POLVO QUÍMICO, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	44.000	537.46	23,648.24
997.0010N1	ud ARMARIO METÁLICO BIE CON 2 EXTINTORES + PULSADOR DE ALARMA + ESTACIÓN SOS (ARMARIO 193 x 71,5 cm) ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 193 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR BIE, 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	16.000	567.44	9,079.04
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.	76.000	71.33	5,421.08
997.0003N1	ud SEÑAL FOTOLUMINISCENTE 700 x 500 mm SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	386.000	43.51	16,794.86
997.0034N1	m CABLE SENSOR LISTEC O SIMILAR CABLE SENSOR CON CUBIERTA IGNÍFUGA Y SIN HALÓGENOS CON 8 M DE DISTANCIA ENTRE SENSOR, RANGO DE MEDIDA DE TEMPERATURAS: - 40ºC + 85ºC, RESOLUCIÓN DE 0,1ºC, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		1,711.000	24.03	41,115.33
997.0014N1	ud SISTEMA DE CONTROL DE CABLE SENSOR SISTEMA DE CONTROL PARA EL CABLE SENSOR, COMPUESTO POR UNIDAD MAESTRA DE CONTROL Y 2 UNIDADES ESCALVAS, VÍA INTERFACE RS-485 CON DISPLAY ALFANUMÉRICO LCD DE 2 X 40 CARACTERES Y TECLADO, CONTACTOS DE COMMUTACIÓN PARA ALARMA COMÚN Y FALLO, FUENTE DE ALIMENTACIÓN 230 VAC / 50 HZ, UPS 72 H (SAI 72 H), SUBRACK DE 19", ASÍ COMO EL RESTO DE ELEMENTOS DE CONTROL NECESARIOS PARA LA COMPLETA INSTALACIÓN DEL SISTEMA DE DETECCIÓN DE INCENDIOS, I/ PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SGÚN PPTP.	1.000	19,937.04	19,937.04
997.0040N1	ud CENTRAL DETECCIÓN INCENDIOS CENTRAL ALGORÍTMICA DE DETECCIÓN DE INCENDIOS CON CAPACIDAD PARA CONTROLAR HASTA 250 EQUIPOS, FABRICADOS SEGÚN NORMATIVAS EN 54-2 Y EN-54-4:1998, CON DISPLAY GRÁFICO, MEMORIA DE EVENTOS NO VOLÁTIL, CON CAPACIDAD PARA MÁS DE 1000 REGISTROS, GESTIÓN TOTAL DE LISTADOS DE EVENTOS, RELOJ EN TIEMPO REAL, SALIDA INCORPORADAS DE EVACUACIÓN, ALARMA, PREALARMA Y AVERÍA, MODO DIA/NOCHE CONFIGURABLE AUTOMÁTICAMENTE MEDIANTE CALENDARIO PROGRAMABLE, MODOS DE TEST Y PRUEBAS INCORPORADOS PARA CADA ZONA, CAPACIDAD MULTILENGUAJE, CONTROL DE ACCESO RESTRINGIDO MEDIANTE LLAVE O CLAVE PROGRAMABLE, PUERTO DE IMPRESORA SERIE INCORPORADO, PUERTOS RS-232 Y RS-485 INDEPENDIENTES, PROVISTA DE FUENTE DE ALIMENTACIÓN DE 4 A Y DOS BATERÍAS DE 12 V / 7 AH Y UNIDAD DE CONTROL DE BUCLES ANALÓGICOS ENCHUFABLES EN LAS CENTRALES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	17,239.99	34,479.98
997.0012N1	ud ARMARIO METÁLICO CON 2 EXTINTORES + PULSADOR DE ALARMA + ESTACIÓN SOS			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ARMARIO METÁLICO CON DIMENSIONES EXTERIORES DE 135 X 71,5 X 50 CM CONSTRUIDO EN CHAPA BLANCA PINTADA EN EPOXI PARA COLGAR, CON CRISTAL TRANSPARENTE PARA CONTENER EN SU INTERIOR 2 EXTINTORES DE POLVO QUÍMICO, PULSADOR DE ALARMA Y ESTACIÓN SOS, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	4.000	1,264.95	5,059.80
997.0028N1	ud VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 150 mm (6") VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 150 MM (6"), PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	4.000	587.19	2,348.76
997.0016N1	ud DRENAJE RED DE PCI DRENAJE RED DE PCI, CON TUBERÍA DE ACERO DIN 2440 DE 1 1/4" DE DIÁMETRO Y VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO, SEGÚN PPTP.	1.000	57.56	57.56
997.0019N1	ud VENTOSA PARA RED DE COLUMNA SECA VENTOSA PARA RED DE COLUMNA SECA, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	273.38	546.76
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	340.000	116.59	39,640.60
997.0020N1	ud TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA TOMAS DE AGUA EN EL INTERIOR DE LA GALERÍA, TOTALMENTE TERMINADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4.000	91.94	367.76
997.0021N1	m	TUBO DE ACERO DIN 2440 1 1/2" TUBERÍA ACERO ESTIRADO SIN SOLDADURA, CLASE NEGRA, DIN-2440 DE 1 1/2" (DN-32), SIN CALORIFUGAR, COLOCADO EN INSTALACIÓN DE AGUA, INCLUSO P.P. DE UNIONES, SOPORTACIÓN, ACCESORIOS, PLATAFORMAS MÓVILES, MANO DE OBRA, PRUEBA HIDRÁULICA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.			
			196.000	24.10	4,723.60
997.0036N1	ud	VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-150 mm SUMINISTRO E INSTALACIÓN DE VÁLVULA DE MARIPOSA PARA EMBRIDAR, DE DIÁMETRO 6" DE DIÁMETRO, PN=16 BAR, FORMADA POR CUERPO, DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS ES ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			17.000	274.95	4,674.15
997.0006N1	ud	HIDRANTE DE 4" CON 2 BOCAS Y ARQUETA HIDRANTE ENTERRADO DE 4” DN100, CON 2 BOCAS DE 70 MM, CON RACORES Y TAPONES, EN ALUMINIO ESTAMPADO CON ARQUETA COMPLETA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.			
			8.000	864.38	6,915.04
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJE-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			46.030	6.70	308.40
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			15.260	3.47	52.95
997.0022N1	m³	GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 m³/h A 80 mca GRUPO DE PRESIÓN CONTRA INCENDIOS PARA 132 M3/H A 80 MCA, COMPUESTO POR UNA ELECTROBOMBA PRINCIPAL, UNA ELECTROBOMBA DE EMERGENCIA (55 KW), ELECTROBOMBA JOCKEY DE 4 KW, COLECTOR DE ASPIRACIÓN CON VÁLVULAS DE SECCIONAMIENTO, COLECTOR DE IMPULSIÓN CON VÁLVULAS DE CORTE Y RETENCIÓN, VÁLVULA PRINCIPAL DE RETENCIÓN Y COLECTOR DE PRUEBAS EN IMPULSIÓN, MANÓMETRO Y VÁLVULA DE SEGURIDAD, ACUMULADOR HIDRONEUMÁTICO DE 25 L. BANCADA METÁLICA Y CUADRO ELÉCTRICO DE MANIOBRAS SEGÚN NORMAS UNE (23-500-90), I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	14,443.20	14,443.20
999.0307N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 200 mm VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 200 MM, I/ JUNTA DE DESMONTAJE AUTOPORTANTE			
			4.000	876.34	3,505.36
		TOTAL ELEMENTO 04.2.1.1.1 EQUIPOS DE PROTECCIÓN CONTRA INCENDIOS.....			238,966.71
		ELEMENTO 04.2.1.1.2 DEPÓSITO DE PROTECCIÓN CONTRA INCENDIOS			
997.0291N1	m²	FORMACIÓN DE ESCALERA SOBRE LOSA FORMACIÓN DE ESCALERA SOBRE LOSA, TOTALMENTE TERMINADA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			6.720	385.10	2,587.87
997.0292N1	m	JUNTA EN MUROS JUNTA EN MUROS.			
			56.920	45.12	2,568.23
997.0293N1	m	PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 m PLACA ALVEOLAR PREFABRICADA PRETENSADA DE ANCHO 1,20 M, TOTALMENTE COLOCADA EN OBRA.			
			111.000	45.35	5,033.85
620.0020	kg	ACERO S275JR EN CHAPAS Y PERFILES LAMINADOS ACERO LAMINADO ESTRUCTURAL S275JR EN CHAPAS Y PERFILES LAMINADOS I/ P.P. DE DESPUNTES, CORTE, DOBLADO, SOLDADURAS, TRANSPORTE, POSICIONAMIENTO Y COLOCACIÓN EN OBRA, PROTECCIÓN ANTI-CORROSIÓN TOTALMENTE MONTADO.			
			297.600	3.59	1,068.38
681.0010	m³	CIMBRA CUAJADA CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			99.900	12.21	1,219.78
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			839.540	33.91	28,468.80
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			329.290	113.62	37,413.93
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			23.058	56.71	1,307.62
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			34,580.640	1.81	62,590.96
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			1,458.360	6.70	9,771.01
930.0003N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 250 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 250 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
			41.000	157.43	6,454.63
997.0294N1	ud	ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL ACOMETIDA DOMICILIARIA DE SANEAMIENTO A LA RED GENERAL, HASTA UNA LONGITUD DE 25 M, EN TERRENO DURO, CON ROTURA DE PAVIMENTO POR MEDIO DE COMPRESOR, EXCAVACIÓN MECÁNICA, TUBO DE HORMIGÓN CENTRIFUGADO D=25 CM, RELLENO Y APISONADO DE ZANJA CON TIERRA PROCEDENTE DE LA EXCAVACIÓN, INCLUYE LIMPIEZA Y TRANSPORTE DE TIERRAS SOBRANTES A PIE DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CARGA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	600.09	600.09
410.0024N1	ud	ARQUETA DE HORMIGÓN ARMADO 100 x 100 cm DE MEDIANA O LATERAL ARQUETA DE HORMIGÓN HA-30 EJECUTADA IN SITU DE DIMENSIONES INTERIORES 100 X 100 CM Y HASTA 2,00 M DE PROFUNDIDAD, ESPESOR DE PAREDES 25 CM, CON MARCO Y REJILLA DE FUNDICIÓN, INCLUSO EXCAVACIÓN Y RELLENO LATERAL COMPACTADO, COMPLETAMENTE TERMINADO.			
			2.000	654.65	1,309.30
410.0023N1	ud	ARQUETA DE REGISTRO PARA DRENES 0,40 x 0,40 x 0,50 m ARQUETA SUMIDERO CON UNAS DIMENSIONES DE 40 X 40 Y 50 CM DE PROFUNDIDAD, CON REJILLA Y CERCO DE FUNDICIÓN, REALIZADA CON BLOQUE HUECO DE HORMIGÓN VIBRADO DE 9 X 25 X 50 CM, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON ESQUINAS A MEDIA CAÑA, INCLUSO EXCAVACIÓN Y TRANSPORTE DE ESCOMBROS A VERTEDERO AUTORIZADO. TOTALMENTE EJECUTADA Y ACABADA SEGÚN NORMAS DE LA DIRECCIÓN FACULTATIVA.			
			4.000	93.79	375.16
997.0036N2	ud	VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 mm VÁLVULA DE MARIPOSA PARA EMBRIDAR PN-16, DE DIÁMETRO DN-200 MM, CUERPO Y DISCO DE FUNDICIÓN FORRADO CON EPOXI, MANDO DE VOLANTE, BRIDAS, JUNTA, TORNILLOS Y TUERCAS EN ACERO, SOLDADURA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	385.32	770.64
997.0023N1	ud	VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4" VÁLVULA DE RETENCIÓN DE CLAPETA PARA EMBRIDAR PN-10 DE DIÁMETRO 4" (DN-100), CON SUS JUNTAS, TORNILLOS, TUERCAS Y RACORES EN ACERO INOXIDABLE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	228.46	228.46
997.0024N1	ud	NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS) NIVEL ELECTRÓNICO DISIBEINT ELECTRONICS (ALARMAS) O SIMILAR, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.			
			2.000	2,785.72	5,571.44
997.0025N1	ud	ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 mm ELECTROVÁLVULA DE LLENADO DE DIÁMETRO 80 MM. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	1,420.82	2,841.64
997.0026N1	m	CABLE DE 4 x 2 x 0,9 mm EAPSP PARA LA CONEXIÓN DE LOS SENSORES CABLE DE 4 X 2 X 0,9 MM EAPSP PARA LA CONEXIÓN DE LOS SENSORES DE NIVEL DEL DEPÓSITO DE ABASTECIMIENTO HASTA LA ERU.			
			35.000	3.05	106.75
997.0011N1	ud	ARMARIO METÁLICO PARA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.			
			1.000	1,645.46	1,645.46
997.0027N1	ud	CONVERSOR DE MEDIO IP A FO SM SUMINISTRO E INSTALACIÓN DE CONVERSOR DE MEDIO ETHERNET (10BASE-T) O FAST ETHERNET (100BASE-TX) SOBRE FIBRA ÓPTICA MONOMODO (SM), FORMATO CAJA DE SOBREMESA O SOBRE CARRIL DIN, 3U DE ALTURA Y ALIMENTACIÓN ENTRE +9 Y 36 VCC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN. TOTALMENTE PROBADO Y FUNCIONANDO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		2.000	995.79	1,991.58
997.0017N1	ud CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS PARA 4 CONECTORES INSTALACIÓN DE CAJA DE FIBRA ÓPTICA STAND ALONE PARA MONTAJE EN ARMARIO SOS ADECUADO HASTA PARA 4 CONECTORES SC/PC, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	601.02	601.02
997.0015N1	ud EMPALME DE SEGREGACION DE FIBRA ÓPTICA REALIZACIÓN DE EMPALME DE SEGREGACIÓN DE FIBRA ÓPTICA, I/ MATERIAL NECESARIO PARA SU REALIZACIÓN.			
		1.000	2,935.16	2,935.16
997.0018N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 micras, 8 FIBRAS INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		20.000	11.70	234.00
997.0029N1	ud PLC DE CONTROL 32 ED 16 SD (2 TARJETAS DE 16 ED) SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.			
		1.000	3,584.74	3,584.74
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.			
		35.000	32.74	1,145.90
	TOTAL ELEMENTO 04.2.1.1.2 DEPÓSITO DE PROTECCIÓN CONTRA INCENDIOS.....			182,426.40
	ELEMENTO 04.2.1.1.3 SISTEMA DE LLENADO DE ARQUETAS DE RECOGIDA DE VERTIDOS			
997.0037N1	ud VÁLVULA REDUCTORA DE PRESIÓN LATÓN DE DIÁMETRO 1 1/4" VÁLVULA REDUCTORA DE PRESIÓN DE LATÓN DE DIÁMETRO 1 1/4", INCLUSO ROSCADO A TUBO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP. .			
		2.000	325.03	650.06
997.0031N1	ud VÁLVULA ESFERA PN-16, DIÁMETRO 1 1/4" VÁLVULA DE BOLA DE ACERO, PN-16, TIPO HARD O SIMILAR, DE DIÁMETRO 1 1/4", I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	23.48	46.96
997.0295N1	ud ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL ACOMETIDA A ARQUETA SIFÓNICA DE RECOGIDA DE VERTIDOS EN TÚNEL CON TUBERÍA DE ACERO GALVANIZADO DE 1" DE DIÁMETRO CON T REDUCCIÓN DE 1 1/4" A 1", VÁLVULA DE 1/4 DE VUELTA Y VÁLVULA DE FLOTADOR, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		56.000	155.11	8,686.16
	TOTAL ELEMENTO 04.2.1.1.3 SISTEMA DE LLENADO DE ARQUETAS DE RECOGIDA DE			9,383.18
	ELEMENTO 04.2.1.1.4 ABASTECIMIENTO A DEPÓSITO DE PCI			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			321.000	6.70	2,150.70
332.0060	m³	RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA			
		RELLENO CON MATERIAL GRANULAR PROCEDENTE DE PRÉSTAMO, YACIMIENTO GRANULAR Y/O CANTERA EN TRASDÓS DE ESTRUCTURAS U OBRAS DE DRENAJE I/ CANON DE PRÉSTAMO O CANTERA, CARGA Y TRANSPORTE HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN POR TONGADAS Y TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			314.000	6.70	2,103.80
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			40.000	3.47	138.80
610.0050	m³	HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C25/30 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			2.000	104.31	208.62
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN			
		HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			0.501	56.71	28.41
932.0002N2	m	TUBERÍA DE POLIETILENO DE Ø 110 mm HASTA PT-16 ATMÓSFERAS			
		TUBERÍA DE POLIETILENO Ø DE 110 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
			145.000	32.66	4,735.70
997.0035N1	ud	TAPA DE FUNDICIÓN DE 1 x 1 m			
		TAPA DE FUNDICIÓN DE 1 X 1 M.			
			1.000	309.68	309.68
997.0032N1	ud	VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE Ø 80 mm			
		VÁLVULA DE COMPUERTA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 80 MM, PN16, I/ JUNTA DE DESMONTAJE AUTOPORTANTE, ACCESORIOS DE UNIÓN BRIDADA Y PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	783.92	1,567.84
		TOTAL ELEMENTO 04.2.1.1.4 ABASTECIMIENTO A DEPÓSITO DE PCI			11,243.55
		TOTAL SUBAPARTADO 04.2.1.1 PROTECCIÓN CONTRA INCENDIOS.....			442,019.84
		SUBAPARTADO 04.2.1.2 INSTALACIÓN ELÉCTRICA. MEDIA TENSIÓN			
997.0039N1	m	LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T.			
		LÍNEA SUBTERRÁNEA TRIFÁSICA DE M.T. CON CONDUCTOR AISLADO AL-RHZ1 18/30 KV DE 150 MM2 ENTUBADO, TOTALMENTE TERMINADO, INCLUYENDO EXCAVACIÓN Y TAPADO DE ZANJA, TUBO DE PVC DE 160 MM DE DIÁMETRO, BAJANTE POR EL APOYO Y CEGADO DEL TUBO CON ESPUMA DE POLIURETANO Y TERMINALES DE CONEXIÓN, INCLUYENDO PARTE PROPORCIONAL DE SECCIONADORES Y TODA LA INSTALACIÓN A REALIZAR EN EL APOYO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			195.000	107.27	20,917.65
997.0044N1	ud	CELDA DE LÍNEA			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	CELDA DE LÍNEA, MODELO CGM36-CML Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, SECCIONADOR DE PUESTA A TIERRA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		4.000	4,021.04	16,084.16
997.0041N1	ud CELDA DE SECCIONAMIENTO CELDA DE INTERRUPTOR PASANTE (SECCIONAMIENTO), MODELO CGM36-CMIP Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, UN = 36 KV, IN = 400 A, CON INTERRUPTOR ROTATIVO III, CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, MANDO MANUAL, Y EMBARRADO, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	4,542.66	9,085.32
997.0042N1	ud CELDA DE MEDIDA CELDA DE MEDIDA, MODELO CGM36-CMM Ó SIMILAR, CONTENIENDO 3 TRAFOS DE T. RELACIÓN X/ 3 / 110/ 3 V, 50 VA, CLASE 0.5, 36 KV Y 3 TRAFOS I. RELACIÓN X / 5 A, 15 VA, CLASE 0.5, 36 KV, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	8,366.08	16,732.16
997.0043N1	ud CELDA DE PROTECCIÓN GENERAL CELDA DE PROTECCIÓN GENERAL, CON INTERRUPTOR AUTOMÁTICO MOTORIZADO, MODELO CGM36-CMP-V O SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR AUTOMÁTICO III, VN = 36 KV, IN = 400 A, ICC = 16 KA, MANDO MOTOR, CON BOBINAS DE CIERRE Y DISPARO ASOCIADA AL RELÉ DE PROTECCIÓN Y CONTACTOS AUXILIARES. SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, RELÉ DE PROTECCIÓN, TRANSFORMADORES DE INTENSIDAD TOROIDALES PARA PROTECCIÓN, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	16,218.90	32,437.80
997.0013N1	ud ARMARIO DE CONTADORES ARMARIO DE CONTADORES DE DIMENSIONES ADECUADAS VACÍO, PREPARADO PARA ALOJAR EN SU INTERIOR UN EQUIPO DE MEDIDA MULTIFUNCIÓN CLASE 1, REGLETA DE COMPROBACIÓN DE 10 ELEMENTOS, CABLEADO Y TODOS LOS ACCESORIOS NECESARIOS, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	654.04	1,308.08
997.0045N1	ud CELDA DE PROTECCIÓN DE TRANSFORMADOR CELDA DE PROTECCIÓN DE TRANSFORMADOR DE POTENCIA, MODELO CGM36-CMP-F+RELE Ó SIMILAR, CON AISLAMIENTO Y CORTE EN SF6, CON INTERRUPTOR ROTATIVO III, VN = 36 KV, IN = 400 A, MANDO MANUAL, PORTAFUSIBLES Y CARTUCHOS FUSIBLES DE 36 KV, RELÉ TRIFÁSICO DE PROTECCIÓN DE TRANSFORMADOR, SECCIONADOR III DE PUESTA A TIERRA CON CAPACIDAD DE CIERRE SOBRE CORTOCIRCUITO 40 KA CRESTA, EMBARRADO Y AISLADORES TESTIGO DE PRESENCIA DE TENSIÓN, I/ TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.			
		2.000	5,946.01	11,892.02
997.0046N1	ud INTERCONEXIÓN CELDA - TRAFO INTERCONEXIÓN DE CELDA DE MEDIA TENSIÓN CON TRANSFORMADOR DE POTENCIA, FORMADA POR CABLE DE AL DE AISLAMIENTO SECO DE 1 X 95 MM2, UN JUEGO DE 3 BORNAS ELASTIMOLD, REF: K-158 LR Y 3 CONOS DIFUSORES ELASTIMOLD, REF: MSC, PARA SER INSTALADOS EN LOS			

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXTREMOS DEL CABLE ANTERIOR Y TODOS LOS ACCESO-RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	716.61	1,433.22
997.0047N1	ud	BORNAS DE CONEXIÓN DE MEDIA TENSIÓN APANTALLADAS BORNAS DE CONEXIÓN DE MDEIA TENSIÓN APANTALLA-DAS, TIPO ELASTIMOLD O SIMILAR, PARA SU INSTALACIÓN EN LA ENTRADA DE LAS CELDAS DE LÍNEA, CON TODOS LOS ACCESORIOS NECESARIOS, I/ INCLUSO PEQUEÑO MA-TERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIO-NANDO. SEGÚN PPTP.			
			12.000	157.24	1,886.88
997.0048N1	ud	EQUIPO DE SEGURIDAD EQUIPO DE SEGURIDAD QUE COMPRENDE: - COMPROBADOR ÓPTICO Y ACÚSTICO DE AUSENCIA DE TENSIÓN AUTOVERIFICABLE DE 600 V C.C. - VERIFICADOR DE AUSENCIA DE TENSIÓN LUMINOSO CON COMPROBADOR PIEZOELÉCTRICO INCORPORADO Y PÉRTI-GA TELESCÓPICA - BANQUETA AISLANTE PARA SERVICIO INTERIOR HASTA 36 KV - EQUIPO DE PUESTA A TIERRA - ESCALERA PARA TRABAJOS ELÉCTRICOS DE FIBRA - GUANTES AISLANTES PARA TRABAJOS ELÉCTRICOS EN 36 KV, CON COFRET METÁLICO CONSERVACIÓN Y FIJACIÓN MURAL - REANIMADOR PARA RESPIRACIÓN ARTIFICIAL CON CAJA DE PLÁSTICO HERMÉTICA - MANTA IGNÍFUGA PARA EXTINCIÓN DE INCENDIOS - PLACAS DE SEÑALIZACIÓN PARA RESPIRACIÓN ARTIFICIAL E INSTRUCCIONES DE AUXILIO EN CASO DE ACCIDENTE ELÉCTRICO - PLACAS DE SEÑALIZACIÓN DE RIESGO ELÉCTRICO.			
			2.000	697.84	1,395.68
997.0050N1	ud	TRANSFORMADOR DE POTENCIA DE 1000 kVA TRANSFORMADOR DE POTENCIA DE 1000 KVA, 25 / 0.40 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAP-SULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESO-			

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	21,184.97	21,184.97
997.0049N1	ud	TRANSFORMADOR DE POTENCIA DE 800 kVA TRANSFORMADOR DE POTENCIA DE 800 KVA, 25 / 0.42 - 0.23 KV, 50 HZ, 7 POS.+/- 2.5-+/- 5-+/- 7%, DYN11, ENCAP-SULADO SECO, PARA INTERIOR, CON TODOS LOS ACCESO-RIOS NECESARIOS, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	14,665.97	14,665.97
997.0051N1	ud	PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMADOR PROTECCIÓN METÁLICA PARA DEFENSA DEL TRANSFORMA-DOR, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	293.37	586.74
997.0073N1	ud	DERECHOS DE ACOMETIDA A LA RED DE COMPAÑÍA ELÉCTRICA EN M.T. DERECHOS DE ACOMETIDA A LA RED DE LA COMPAÑÍA ELÉCTRICA EN MEDIA TENSIÓN. (CUOTA DE ACCESO, DERE-CHOS DE ENGANCHE Y DERECHOS DE VERIFICACIÓN SE-GÚN R.D.1955/2000, DE 1 DE DICIEMBRE, POR EL QUE SE RE-GULAN LAS ACTIVIDADES DE TRANSPORTE, DISTRIBUCIÓN, COMERCIALIZACIÓN, SUMINISTRO Y PROCEDIMIENTOS DE AUTORIZACIÓN DE INSTALACIONES DE ENERGÍA ELÉCTRI-CA). PRECIO FIJADO SEGÚN LA TARIFA VÁLIDA PARA EL AÑO 2006 SEGÚN R.D. 1556/2005, DE 28 DE DICIEMBRE.			
			1.000	40,059.91	40,059.91
997.0052N1	ud	EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC) EDIFICIO PREFABRICADO DE HORMIGÓN PARA CENTRO DE TRANSFORMACIÓN COMPACTO (CTC), PARA INCLUIR TRANSFORMADOR DE 800 Ó 1000 KVA, TOTALMENTE INS-TALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SE-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	GÚN PPTP.			
		2.000	293.37	586.74
	TOTAL SUBAPARTADO 04.2.1.2 INSTALACIÓN ELÉCTRICA. MEDIA TENSIÓN.....			190,257.30
	SUBAPARTADO 04.2.1.3 INSTALACIÓN ELÉCTRICA. BAJA TENSIÓN			
	ELEMENTO 04.2.1.3.1 SISTEMAS DE ALIMENTACIÓN DE EMERGENCIA			
997.0053N1	ud SAI TRIFÁSICO 12 kVA SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1.000	3,837.97	3,837.97
997.0054N1	ud SAI TRIFÁSICO 40 kVA SISTEMA DE ALIMENTACIÓN INITERRUMPIDA SAI-01, TRIFÁSICO DE 40 KVA, 400/230 V, CON AUTONOMÍA DE 60 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	20,708.29	41,416.58
997.0055N1	ud DEPÓSITO DE COMBUSTIBLE DE 3000 l DEPÓSITO DE COMBUSTIBLE DE 3000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	2.000	8,095.91	16,191.82
997.0057N1	ud GRUPO ELECTRÓGENO 408 kW			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 408 KW / 510 KVA EN SERVICIO CONTINUO Y 449 KW / 562 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1.000	98,458.30	98,458.30
997.0058N1	ud GRUPO ELECTRÓGENO 530 kW GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 530 KW / 662 KVA EN SERVICIO CONTINUO Y 582 KW / 728 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1.000	111,317.27	111,317.27
997.0056N1	ud GRUPO ELECTRÓGENO 102 kW GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO DE 102 KW / 127,5 KVA EN SERVICIO CONTINUO Y 112,5 KW / 141 KVA EN SERVICIO DE EMERGENCIA CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO DE 150 L Y ADICIONAL DE 1.000 L, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1.000	49,739.54	49,739.54
	TOTAL ELEMENTO 04.2.1.3.1 SISTEMAS DE ALIMENTACIÓN DE EMERGENCIA.....			320,961.48
	ELEMENTO 04.2.1.3.2 CUADROS ELÉCTRICOS			
997.0059N1	ud CUADRO GENERAL DE BAJA TENSIÓN 1 CUADRO GENERAL DE BAJA TENSIÓN CGBT-1, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIA-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	97,470.86	97,470.86
997.0060N1	ud	CUADRO GENERAL DE BAJA TENSIÓN 2			
		CUADRO GENERAL DE BAJA TENSIÓN CGBT-2, 400/230 V, 50 HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	93,835.06	93,835.06
997.0063N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR 45 kW, 400 V Y 50 Hz			
		ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 45 KW, 400 V Y 50 HZ, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8.000	2,237.50	17,900.00
997.0066N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 kVAr			
		BATERÍA AUTOMÁTICA DE CONDESADORES DE 210 KVAR (10+(4X50)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	4,381.72	8,763.44
997.0065N1	ud	BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 kVAr			
		BATERÍA AUTOMÁTICA DE CONDESADORES DE 185 KVAR			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		(5+(6X30)) KVAR, A 400 V, Y 50 HZ, CONTROLADA POR UN REGULADOR AUTOMÁTICO, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			3.000	2,677.88	8,033.64
997.0064N1	ud	ARRANCADOR SUAVE PARA MOTOR VENTILADOR 55 kW, 400 V Y 50 Hz			
		ARRANCADOR SUAVE PARA MOTOR VENTILADOR REVERSIBLE DE 55 KW, 400 V Y 50 HZ, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			14.000	2,532.71	35,457.94
997.0061N1	ud	CUADRO SECUNDARIO GALERÍA SAI			
		CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO SAI 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TENSIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	1,062.31	4,249.24
997.0062N1	ud	CUADRO SECUNDARIO GALERÍA GRUPO			
		CUADRO SECUNDARIO DE GALERÍA DESDE SUMINISTRO GRUPO 400/230 V, 50HZ (3F + N + T), CONSTRUIDO CON LÁMINA CINCADA EN CALIENTE, PROVISTO DE DOBLE PUERTA FRONTAL, LA PRIMERA TRANSPARENTE Y BLOQUEADA MEDIANTE CERRADURA, COMPUESTO POR EMBARRADO GENERAL, MANDO MOTOR, ENCLAVAMIENTOS Y AUTOMATISMO DE CONMUTACIÓN, EQUIPO DE MEDIDA DE TEN-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SIÓN E INTENSIDAD Y EL APARELLAJE DE LOS CIRCUITOS DE SALIDA INDICADOS EN EL ESQUEMA UNIFILAR, INCLUSO CONTACTOS AUXILIARES DE SEÑALIZACIÓN PARA PERMITIR LA SUPERVISIÓN DESDE EL SISTEMA ESCADA. I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	1,881.55	7,526.20
997.0161N1	m²	PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).			
			1.000	128.01	128.01
997.0162N1	m²	PINTURA AL SILICATO INTERIORES PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.			
			1.000	8.78	8.78
		TOTAL ELEMENTO 04.2.1.3.2 CUADROS ELÉCTRICOS.....			273,373.17

ELEMENTO 04.2.1.3.3 ALUMBRADO Y TOMAS DE CORRIENTE

1102.0051	m	BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN EJECUCIÓN DE BASE PARA CIMENTACIÓN DE BÁCULOS DE ILUMINACIÓN (10<H<12 M) INCLUIDO EXCAVACIÓN, HORMIGÓN DE LIMPIEZA, HORMIGÓN PARA ZAPATA DE CIMENTACIÓN, ARMADURAS EN CASO NECESARIO, ENCOFRADO, IMPERMEABILIZACIÓN CON BREA, RELLENO LOCALIZADO PERNOS DE ANCLAJE Y TODAS LAS OPERACIONES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN SIGUIENDO INSTRUCCIONES DE LA DIRECCIÓN FACULTATIVA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.000	254.69	509.38
997.0070N1	ud	SUMINISTRO DE LUMINARIA LED 212 W PARA ALUMBRADO EXTERIOR SUMINISTRO DE LUMINARIA IP-66/IK08 LED 212 W PARA ALUMBRADO EXTERIOR, INCLUIDO LÁMPARA DE 80 LED, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, I/ ANCLAJE QUÍMICO PARA COLOCACIÓN DE LUMINARIA DE ALUMBRADO VIARIO EN ESTRUCTURAS O PUENTES. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			40.000	277.43	11,097.20
997.0068N1	ud	SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W SUMINISTRO DE LUMINARIA ADOSABLE ESTANCA LED 34 W CON EQUIPO DE EMERGENCIA, CON DIFUSOR TRANSPARENTE DE POLICARBONATO FABRICADO EN UNA SOLA PIEZA, CON PRISMAS INTERIORES DE ALTA EFICACIA LUMINOSA Y CIERRES INVISIBLES. CUERPO DE LA LUMINARIA EN POLICARBONATO Y DIFUSOR EN CHAPA DE ACERO, LACADO EN BLANCO, GRADO DE PROTECCIÓN IP-66/IK07, EQUIPO DE ENCENDIDO ELECTRÓNICO, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
			173.000	409.19	70,789.87
997.0067N1	ud	SUMINISTRO DE LUMINARIA LED IP66/IK07 103 W 48 LED PROYECTOR LED 103 W DALI, INTEGRADO POR 48 LED DE ALTO FLUJO LUMINOSO Y UN SISTEMA DE LENTES FLEXIBLE, IP66; CUERPO DE ALUMINIO QUE INTEGRA EL BLOQUE			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	DE AUXILIARES ELECTRÓNICOS Y EL BLOQUE ÓPTICO, ACCESIBLES IN SITU. CIERRE CON MARCO DE ALUMINIO Y PROTECTOR DE VIDRIO, INCLUIDO LÁMPARA, EQUIPO, CANALIZACIÓN, CONDUCTORES Y ACCESORIOS, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		230.000	621.40	142,922.00
997.0072N1	ud SUMINISTRO DE CAJA TIPO TCT SUMINISTRO DE CAJA TIPO TCT, CONTENIENDO EN SU INTERIOR 1 BASE 2P+T 16 A Y 1 BASE 3P+N+T 16 A Y UN MAGNETOTÉRMICO DE 16 A, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		36.000	386.41	13,910.76
997.0074N1	ud FOTÓMETRO A ENTRADA A TÚNEL SUMINISTRO E INSTALACIÓN DE FOTÓMETRO DE ENTRADA A TÚNEL PARA REGULACIÓN AUTOMÁTICA DE ILUMINACIÓN SEGÚN LAS RECOMENDACIONES DE LA CEI, CON LAS SIGUIENTES CARACTERÍSTICAS, I/ PUESTA EN MARCHA Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP: ELEMENTO DETECTOR: FOTODIODO DE SILICIO CON FILTRO V ANGULO DE MEDIDA. 20º PRECISIÓN: MEJOR QUE +/- 3% SEÑAL DE SALIDA: 4 - 20 MA MONTAJE: SOBRE SOPORTE AJUSTABLE			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		2.000	2,214.88	4,429.76
997.0075N1	ud COLUMNA METÁLICA DE 12 m COLUMNA METÁLICA DE 12 M DE ALTURA, DE DIÁMETROS DE 60 MM, TRONCOCÓNICA, CONSTRUIDA EN CHAPA DE ACERO DE 3 MM DE ESPESOR, CON PUERTA, PLETINA PARA CUADRO Y TORNILLO PARA TOMA DE TIERRA. EL CONJUNTO ESTARÁ GALVANIZADO EN CALIENTE POR INMERSIÓN CON UN ESPESOR MÍNIMO DEL RECUBRIMIENTO DE 450 G/M2 (UNE-37-501-71), CUMPLIENDO CON EL PLIEGO DE CONDICIONES E INCLUYENDO TRANSPORTE Y MONTAJE Y EXCLUYENDO LA CIMENTACIÓN.			
		40.000	1,080.92	43,236.80
997.0076N1	ud REGULADOR DALI DE ALUMBRADO REGULADOR DALI DE ALUMBRADO BASADO EN MICROPROCESADOR, PUERTO RS-485, INCLUSO CABLEADO DE INTERCONEXIÓN, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		12.000	2,193.95	26,327.40
997.0077N1	m CABLE DE 2 x 2 x 0,9 mm, EAPS-R INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.			
		386.000	3.54	1,366.44
997.0078N1	ud BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL BALIZA LED PARA SEÑALIZACIÓN DE INTERDISTANCIA ENTRE VEHÍCULOS DENTRO DEL TÚNEL, COLOR AZUL, INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIO-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	NADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		42.000	327.47	13,753.74
997.0033N1 ud	COLUMNA DE 6 m PARA FOTÓMETRO INSTALACIÓN DE COLUMNA DE 6 M PARA FOTÓMETRO DE BOCA NORTE, VELETA Y CORTAVIENTOS DE BOCA NORTE.			
		2.000	1,120.50	2,241.00
997.0067N2 ud	SUMINISTRO DE LUMINARIA LED IP69/IK09/700mA 89 W-40 LED SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 40LED (89W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 40LED DE ALTA EMISIÓN ALIMENTADOS A 700 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 89W Y FLUJO INICIAL DE 14.600LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS,			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		240.000	774.03	185,767.20
997.0067N3 ud	SUMINISTRO DE LUMINARIA LED IP69/IK09/750mA 140 W-60 LED SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 60LED (140W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN FLEXIBLE Y ORIENTABLE IN SITU MEDIANTE LIRA DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES ALOJADO EN EL INTERIOR DEL CUERPO, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 60LED DE ALTA EMISIÓN ALIMENTADOS A 750 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 140W Y FLUJO INICIAL DE 22.700LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 244MM – ANCHO 415MM – LARGO 488MM. PESO: 11 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		14.000	825.97	11,563.58
997.0067N4	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 212 W-80 LED			
	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 80LED (212W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 80LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 212W Y FLUJO INICIAL DE 33.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 786MM. PESO: 16 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		32.000	1,187.67	38,005.44
997.0067N5	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/800mA 396 W-160 LED			
	SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (396W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 800 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 396W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	INDIRECTOS Y DE MEDIOS AUXILIARES.			
		14.000	1,829.58	25,614.12
997.0067N6	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 448 W-160 LED SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 160LED (448W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 160LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 448W Y FLUJO INICIAL DE 63.300LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L89510_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1175MM. PESO: 23 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		2.000	1,950.45	3,900.90
997.0067N7	ud SUMINISTRO DE LUMINARIA LED IP69/IK09/850mA 624 W-240 LED SUMINISTRO, MONTAJE E INSTALACIÓN DE PROYECTOR DE 240LED (624W) COMPUESTO POR DOS PIEZAS, CUERPO Y MARCO DE FUNDICIÓN DE ALUMINIO INYECTADO A ALTA PRESIÓN, CON CIERRE DE PROTECTOR DE VIDRIO TEMPLADO. CON UN SISTEMA DE FIJACIÓN MEDIANTE LIRAS LATERALES DE FUNDICIÓN DE ALUMINIO INYECTADO. BLOQUE DE AUXILIARES EN MODULO INDEPENDIENTE, SIENDO LOS AUXILIARES DE TIPO DRIVER ELECTRÓNICOS REGULABLES TEMPORIZADOS CON POSIBILIDAD DE HASTA 5 NIVELES DISTINTOS, REGULACIÓN 1-10V O DALI. CON ESTANQUEIDAD GLOBAL DE IP69 Y CON ÍNDICE DE RESISTENCIA A IMPACTOS EN TODO SU CONJUNTO DE IK09. CON ACABADO DE PINTURA EN POLVO MEDIANTE ELECTRODEPOSICIÓN CON AL MENOS 60 MICRAS DE ESPESOR (RAL A ELEGIR POR LA DF). CON BLOQUE ÓPTICO COMPUESTO DE 240LED DE ALTA EMISIÓN ALIMENTADOS A 850 MA, DISPUESTOS SOBRE PCBA PLANA CON SENSOR DE TEMPERATURA, CON CONSUMO TOTAL DE 624W Y FLUJO INICIAL DE 99.000LM, TEMPERATURA DE COLOR NW 4.000K CON ÓPTICA 5307 DE PMMA UBICADA INDIVIDUALMENTE SOBRE CADA LED CONFORMANDO UNA FOTOMETRÍA GLOBAL MEDIANTE EL PROCESO DE ADICIÓN FOTOMÉTRICA. VIDA ÚTIL L95B10_100.000H. CON PROTECTOR DE SOBRETENSIONES HASTA 10KV. CON CERTIFICADO DEL FABRICANTE DE CUMPLIMIENTO ISO 9001, ISO 14001, ISO 45001, ISO 50001, EMAS. UNE EN 13032. DIMENSIONES DE PROYECTOR: - ALTURA 117MM – ANCHO 440MM – LARGO 1564MM. PESO: 32 KG. INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, DRIVERS REGULABLES, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		180.000	2,576.30	463,734.00
997.0301N1	u PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 lm (61 W) SUMINISTRO, MONTAJE E INSTALACIÓN DE PANTALLA ESTANCA IP65/IK08 LED 4000K-7547 LM (61 W). INCLUIDO P.P. DE LÁMPARAS, TRANSFORMADORES, FUENTE DE ALIMENTACIÓN O DRIVERS, CAJA DERIVACIÓN CON PROTECCIÓN FUSIBLES, REPLANTEO, MODIFICACIÓN FALSO TECHO, ANCLAJES Y SISTEMA DE FIJACIÓN PARA EMPOTRAR, SUPERFICIE O DESCOLGAR, PEQUEÑO MATERIAL, CONEXIONADO Y DEMÁS ELEMENTOS NECESARIOS PARA SU CORRECTA INSTALACIÓN. INCLUIDA LA P.P. DEL COSTE DE PUESTA EN FUNCIONAMIENTO Y SUMINISTROS PARA PRUEBAS, CONSIDERÁNDOSE SIEMPRE LA INSTALACIÓN COMPLETAMENTE TERMINADA, PROBADA Y FUNCIONANDO. P.P. DE COSTES INDIRECTOS Y DE MEDIOS AUXILIARES.			
		56.000	159.58	8,936.48
	TOTAL ELEMENTO 04.2.1.3.3 ALUMBRADO Y TOMAS DE CORRIENTE.....			1,068,106.07

ELEMENTO 04.2.1.3.4 PUESTA A TIERRA

997.0081N1	m CONDUCTOR DE COBRE DESNUDO DE 50 mm" CONDUCTOR DE COBRE DESNUDO DE 50 MM2 INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		3,650.000	3.46	12,629.00
997.0082N1	ud REGISTRO DE COMPROBACIÓN Y TAPA REGISTRO DE COMPROBACIÓN Y TAPA INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACIÓN Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		30.000	40.03	1,200.90
997.0083N1	ud PUENTE DE PRUEBA PUENTE DE PRUEBA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.			
		30.000	50.20	1,506.00
997.0084N1	ud SOLDADURA ALUMINOTÉRMICA SOLDADURA ALUMINOTÉRMICA, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.			
		180.000	5.02	903.60
997.0085N1	ud EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 x 6 mm EMBARRADOS CONEXIÓN A TIERRAS EN PLETINA DE COBRE DE 60 X 6 MM, TOTALMENTE INSTALADO, INCLUSO PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.			
		24.000	117.94	2,830.56
997.0235N1	ud PUENTE DE CONEXIÓN DE TIERRAS PUENTE DE CONEXIÓN DE TIERRAS, TOTALMENTE INSTALADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		16.000	222.35	3,557.60
997.0236N1	ud PICA DE PAT DE 2000 mm x 14,6 mm PICA DE ACERO COBRE DE 14,6 MM DE DIAMETRO Y 2000 MM DE LONGITUD, I/ GRAPA DE CONEXION Y RESTO DEL MATERIAL TOTALMENTE MONTADA Y CONEXIONADA.			
		180.000	37.51	6,751.80
	TOTAL ELEMENTO 04.2.1.3.4 PUESTA A TIERRA.....			29,379.46

ELEMENTO 04.2.1.3.5 BANDEJAS Y CABLES

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
997.0237N1	m	BANDEJA PERFORADA DE 400 x 60 x 0,8 mm EN ACERO BANDEJA PERFORADA DE 400 X 60 X 0,8 MM EN ACERO GALVANIZADO EN CALIENTE SEGÚN NORMA UNE-EN-ISO-1461, CUMPLE CON LA NORMA Y ENSAYO DIN 4102-12 DE RESISTENCIA AL FUEGO E90 A 1.000 ºC. CONTINUIDAD ELÉCTRICA GARANTIZADA MEDIANTE CABLE DE PROTECCIÓN DE COBRE DESNUDO DE 16 MM2 CON CONEXIONES A LA BANDEJA SEGÚN NORMATIVA, RESISTENTE A LA CORROSIÓN CLASE 7, CON 70 MICRAS DE ESPESOR DE GALVANIZADO EN CALIENTE, I/ MATERIAL AUXILIAR DE UNION, FIJACION Y ANCLAJE TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	8,179.500	34.87	285,219.17
997.0239N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 50 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 50) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	13,320.000	17.27	230,036.40
997.0238N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 35 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 35) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	10,420.000	10.31	107,430.20
997.0240N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 70 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 70) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	4,720.000	22.56	106,483.20
997.0241N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 95 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 95) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	320.000	30.45	9,744.00
997.0242N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 120 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 120) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	80.000	33.15	2,652.00
997.0243N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 185 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 185) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1,300.000	46.38	60,294.00
997.0244N1	m	CABLE DE COBRE RZ1-K (AS+) 0.6/1 KV 1 x 240 mm² CABLE DE COBRE RESISTENTE AL FUEGO SEGÚN IEC 60331 / UNE 20-431 DE 0.6/1 KV DE 1 (1 X 240) MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	260.000	46.51	12,092.60
997.0245N1	m	CONDUCTOR DE COBRE DESNUDO DE 35 mm² CONDUCTOR DE COBRE DESNUDO DE 35 MM2, TOTALMENTE INSTALADO, I/ PARTE PROPORCIONAL DE ELEMENTOS DE CONEXIÓN Y PEQUEÑO MATERIAL.	3,542.000	2.20	7,792.40
997.0246N1	ud	TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A TOMA MONOFÁSICA DE 16 A Y TRIFÁSICA DE 25A, TOTALMENTE TERMINADO.	4.000	145.87	583.48
997.0247N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 mm²			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CABLE DE COBRE DE RV-K 0.6/1 KV DE 3G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8,056.000	5.04	40,602.24
997.0248N1	m	CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 mm²			
		CABLE DE COBRE DE RV-K 0.6/1 KV DE 5G6 MM2, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1,405.000	7.42	10,425.10
997.0249N1	m	CABLE DE COBRE DE RZ1-K 0.6/1 KV DE 3G2,5 mm² AFUMEX			
		CABLE DE COBRE DE 0.6/1 KV DE 3G2,5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2,430.000	2.94	7,144.20
997.0250N1	m	CABLE DE COBRE DE RZ1-K 0.6/1 KV DE 5G6 mm² AFUMEX			
		CABLE DE COBRE DE 0.6/1 KV DE 5G6 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO, I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			18,235.000	8.91	162,473.85
997.0251N1	m	CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 3G2,5 mm²			
		CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 3G2.5 MM2, I/ PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			6,000.000	5.66	33,960.00
997.0252N1	m	CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 5G6 mm²			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G6 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			34,080.000	19.31	658,084.80
997.0253N1	m	CABLE DE COBRE DE RZ1-K (AS+) 0.6/1 KV DE 5G16 mm²			
		CABLE DE COBRE RESISTENTE AL FUEGO (AS+) SEGÚN IEC 60331 DE 0.6/1 KV DE 5G16 MM2,I/ PEQUEÑO MATERIAL DE CONEXIÓN E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2,021.000	34.35	69,421.35
		TOTAL ELEMENTO 04.2.1.3.5 BANDEJAS Y CABLES.....			1,804,438.99
		TOTAL SUBAPARTADO 04.2.1.3 INSTALACIÓN ELÉCTRICA. BAJA TENSIÓN.....			3,496,259.17
		SUBAPARTADO 04.2.1.4 VENTILACIÓN			
997.0254N1	ud	SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE			
		SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1487 N DE EMPUJE, MOTOR DE 45 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8.000	12,577.27	100,618.16
997.0255N1	ud	ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES			
		ENSAYOS DE VERIFICACIÓN DE EQUIPOS DE VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.			
			1.000	6,657.01	6,657.01
997.0256N1	ud	ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ENSAYOS DE VERIFICACIÓN DEL TÚNEL SEGÚN PLIEGO DE CONDICIONES.			
			1.000	7,563.31	7,563.31
997.0257N1	ud	PRUEBAS DE VENTILADORES DE CHORRO SEGÚN PLIEGO DE CONDICIONES			
		DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES.			
			1.000	6,180.01	6,180.01
997.0258N1	ud	VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES			
		VERIFICACIÓN DEL SISTEMA DE CONTROL DE LA VENTILACIÓN SEGÚN PLIEGO DE CONDICIONES.			
			1.000	3,392.21	3,392.21
997.0259N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES			
		REALIZACIÓN DE ENSAYOS EN TÚNEL CON HUMOS FRÍOS SEGÚN PLIEGO DE CONDICIONES.			
			3.000	3,574.53	10,723.59
997.0260N1	ud	REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES			
		REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.			
			1.000	5,622.45	5,622.45
997.0261N1	ud	DESARROLLO DE MODELOS NUMÉRICOS DE VALIDACIÓN SEGÚN PLIEGO DE CONDICIONES			
		REALIZACIÓN DE ENSAYOS EN TÚNEL CON FUEGO SEGÚN PLIEGO DE CONDICIONES.			
			1.000	2,506.05	2,506.05
997.0262N1	ud	ANEMÓMETRO DE HÉLICE MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ANEMÓMETRO DE HÉLICE PARA MEDIDA DE VELOCIDAD DE AIRE EN INTERIOR DE TÚNEL, RANGO -25 : +25 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	2,698.71	10,794.84
997.0263N1	ud	ANEMÓMETRO DE CAZOLETA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR			
		ANEMÓMETRO DE CAZOLETA PARA MEDIDA DE VELOCIDAD DE AIRE EN EXTERIOR, RANGO 0 - 40 M/S, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	2,977.91	2,977.91
997.0290N1	ud	CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO			
		DE CATAVIENTOS PARA CONTROL DE DIRECCIÓN DE VIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	528.80	528.80
997.0289N1	ud	VENTILADOR REVERSIBLE 100 % DE 1663 N DE EMPUJE			
		SUMINISTRO Y MONTAJE DE VENTILADOR REVERSIBLE 100% DE 1663 N DE EMPUJE, MOTOR DE 55 KW, IP-55, PARA ARRANQUE ESTRELLA-TRIANGULO, AISLAMIENTO CLASE H, 400 ºC - 2 HORAS. INCLUYENDO, SISTEMA DE DETECCIÓN DE VIBRACIONES, SILENCIADORES, ELEMENTOS DE ANCLAJE, CADENAS DE SEGURIDAD Y DISPOSITIVOS ANTIVIBRATORIOS. TOTALMENTE INSTALADO Y PUESTO EN OPERACIÓN, INCLUYENDO PRUEBAS DE PUESTA EN MARCHA, POR TÉCNICO DEL FABRICANTE, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			14.000	13,307.61	186,306.54
997.0030N1	ud	TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm			
		SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		96.000	32.74	3,143.04
997.0288N1	ud PUERTA CONTAFUEGOS RF-120 900 x 2000 mm PUERTA METÁLICA CORTAFUEGOS DE DOS HOJAS PIVOTANTES DE 900X2000 MM HOMOLOGADA RF-120, CONSTRUIDA CON DOS CHAPAS DE ACERO ELECTROCINCADO DE 0,80 MM. DE ESPESOR Y CÁMARA INTERMEDIA DE MATERIAL AISLANTE IGNÍFUGO, SOBRE CERCO ABIERTO DE CHAPA DE ACERO GALVANIZADO DE 1,20 MM Y DOTADA DE MIRILLA CIRCULAR. DE ESPESOR, CON SIETE PATILLAS PARA FIJACIÓN A OBRA, CERRADURA EMBUTIDA Y CREMONA DE CIERRE AUTOMÁTICO, SISTEMA DE APERTURA ANTIPÁNICO, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, INCLUSO ACABADO EN PINTURA EPOXI POLIMERIZADA AL HORNO. CON DOBLE PUERTA PEATONAL, LA DERECHA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO TÚNEL-GALERÍA , LA IZQUIERDA CON BARRA ANTIPÁNICO DE EVACUACIÓN EN EL SENTIDO GALERÍA-TÚNEL. SEGÚN PPTP	8.000	4,355.91	34,847.28
997.0287N1	ud OPACÍMETROS POR DISPERSIÓN DE LUZ OPACÍMETROS POR DISPERSIÓN DE LUZ CON ÁNGULO DE 30 GRADOS, CON DOBLE HAZ LUMINOSO, SISTEMA DE MEDIDA DE AUTOCALIBRACIÓN CON CONTROL CONTINUO DEL PUNTO CERO Y VALOR 100%, MARGEN DE MEDIDA 0 ... 15 X 0,001 /M INCLUIDO BARRA DE VERIFICACIÓN, CON CONTROL POR MICROORDENADOR, SALIDA POR BUS ORNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	4.000	9,055.94	36,223.76
997.0001N1	ud VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 kW, UN CAUDAL DE 12.900 m³/h, 200 Pa SUMINISTRO Y MONTAJE DE VENTILADOR AXIAL REVERSIBLE CON MOTOR DE 3 KW, UN CAUDAL DE 12.900 M³/H, 200 PA Y RESTO DE CARACTERÍSTICAS SEGÚN PLANOS. INCLUYENDO PABELLÓN DE ASPIRACIÓN CON TELA METÁLICA PROTECTORA, SOPORTES DE FIJACIÓN, JUNTAS ELÁSTICAS EN ASPIRACIÓN E IMPULSIÓN, TORNILLERÍA Y ACCESORIOS DE FIJACIÓN. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		8.000	1,748.49	13,987.92
997.0001N2	Ud SONDA DE SOBREPRESIÓN SUMINISTRO, MONTEJE E INSTALACIÓN DE SONDA DE SOBREPRESIÓN, PARA CONTROLAR LA PRESIÓN EN SISTEMAS DE VENTILACIÓN EN PRESIÓN CONSTANTE. PERMITEN LA LECTURA DE LA DIFERENCIA DE PRESIONES ENTRE DOS PUNTOS Y LA TRANSFORMAN EN UNA SEÑAL ELÉCTRICA APTA PARA LOS DIFERENTES EQUIPOS DE CONTROL. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	8.000	371.92	2,975.36
997.0001N3	Ud REGULADOR DE TENSIÓN AUT. SUMINISTRO, MONTEJE E INSTALACIÓN DE REGULADOR DE TENSIÓN AUTOMÁTICO. CONTROLADO POR MICROPROCESADOR QUE PERMITE VARIAR LA VELOCIDAD DE GIRO DE LOS VENTILADORES QUE SOPORTAN EN FUNCIÓN DE LAS SEÑALES ENVIADAS POR LA SONDA DE SOBREPRESIÓN. INCLUSO PARTE PROPORCIONAL DE ACCESORIOS. INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	8.000	471.11	3,768.88
997.0286N1	ud COMPUERTA CONTRAFUEGO 600 x 600 mm COMPUERTA CORTAFUEGO DESTINADA A AISLAR LOS SECTORES DE INCENDIO DE 600X600 MM. CON CARCASA Y ELEMENTOS DE ACCIONAMIENTO DE ACERO GALVANIZADO, Y UNA RESITENCIA AL FUEGO RF-120, INSTALADA CON MARCO DE ANCLAJE, I/FIJACIÓN Y RECIBIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	24.000	400.72	9,617.28
997.0285N1	ud COMPUERTA DE SOBREPRESIÓN 600 x 600 mm COMPUERTA DE SOBREPRESIÓN CON MARCO EN U DE ACERO GALVANIZADO Y LAMAS EN ALUMINIO PERFILADO DE 600X600 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16.000	276.28	4,420.48
997.0284N1	m	CABLE DE 1 x 2 x 0,9 mm, ARMADO, TRENZADO Y APANTALLADO LSZH SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, ARMADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			92.000	8.29	762.68
997.0283N1	m	CABLE DE 2 x 2 x 0,9 mm, ARMADO, TRENZADO Y APANTALLADO LSZH SUMINISTRO E INSTALACIÓN DE CABLE DE 2X2X0.9 MM, ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, RESISTENTE AL FUEGO, NO PROPAGADOR DE LA LLAMA), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			105.000	9.12	957.60
997.0282N1	ud	CÉLULA ELECTROQUÍMICA DE CO SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE CO, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			6.000	1,094.69	6,568.14
997.0281N1	ud	CÉLULA ELECTROQUÍMICA DE NO2 SUMINISTRO E INSTALACIÓN DE CÉLULA ELECTROQUÍMICA DE NO2, SALIDA 4-20MA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			6.000	1,716.54	10,299.24
		TOTAL SUBAPARTADO 04.2.1.4 VENTILACIÓN			471,442.54

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.2.1.5 CANALIZACIONES			
997.0280N1	m	TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 mm TUBO DE PVC-M1 PARA CANALIZACIONES SUBTERRÁNEAS DE 110 MM. DE DIÁMETRO EXTERIOR, INCLUIDA P.P. DE MANGUITOS, TAPONES Y SELLADO IGNÍFUGO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO HORMIGONADO, PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			28,476.000	4.36	124,155.36
997.0279N1	m	CANALIZACION SUBTERRANEA HORMIGONADA 6 TUBOS PVC DIÁMETRO 110 mm CANALIZACIÓN SUBTERRÁNEA HORMIGONADA, DE DIMENSIONES 0,40X0,80 M. INCLUSO MOVIMIENTO DE TIERRAS CON ZANJA EXCAVADA A MAQUINA, LECHO DE ARENA DE RÍO, CINTA SEÑALIZADORA Y 6 TUBOS DE PVC 110 MM DE DIÁMETRO, COMPLETAMENTE TERMINADA.			
			450.000	78.23	35,203.50
997.0278N1	ud	ARQUETA TIPO III DE PASO, DERIVACIÓN O TOMA DE TIERRA ARQUETA TIPO III DE PASO, DERIVACION O TOMA DE TIERRA CONSTRUIDA CON FABRICA DE LADRILLO ENFOSCADA INTERIORMENTE CON M-450, SEGUN PLANOS., INCLUSO MOVIMIENTO DE TIERRAS Y TAPA DE FUNDICION, SITUADA EN ACERA DE NUEVA CONSTRUCCION DE 0.20 M DE ESPESOR, COMPLETAMENTE TERMINADA			
			120.000	3,879.46	465,535.20
997.0277N1	ud	ARQUETA 50 x 50 ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 50X50 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACULTATIVA.			
			40.000	126.65	5,066.00
997.0276N1	ud	ARQUETA REGISTRO 80x80 ARQUETA PARA RED DE PCI, REALIZADA CON HORMIGÓN EN MASA HM-20/P/40 VIBRADO, ENFOSCADA Y BRUÑIDA INTERIORMENTE, CON TAPA Y MARCO DE HIERRO FUNDIDO, DE 80X80 CM DE DIMENSIONES INTERIORES.TOTALMENTE ACABADA Y COLOCADA SEGÚN DIRECCIÓN FACUL-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TATIVA.			
			7.000	233.41	1,633.87
997.0275N1	ud	ARQUETA REGISTRO 80x50 ARQUETA DE REGISTRO DE 80X50 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.			
			7.000	238.16	1,667.12
997.0274N1	ud	ARQUETA REGISTRO 150 x 100 ARQUETA DE REGISTRO DE 150X100 CM. REALIZADA CON FÁBRICA DE LADRILLO MACIZO DE 1/2 PIÉ DE ESPESOR RECIBIDO CON MORTERO DE CEMENTO 1/6, ENFOSCADA Y BRUÑIDA EN SU INTERIOR, I/SOLERA DE HORMIGÓN HM-20/P/40 Y TAPA DE HORMIGÓN ARMADO, S/NTE-ISS-50/51.			
			8.000	396.63	3,173.04
		TOTAL SUBAPARTADO 04.2.1.5 CANALIZACIONES.....			636,434.09
		SUBAPARTADO 04.2.1.6 MEGAFONÍA			
		ELEMENTO 04.2.1.6.1 EQUIPOS EN TÚNEL			
997.0273N1	ud	CAJA DE DERIVACIÓN DE MEGAFONÍA 90 x 90 x 42 mm SUMINISTRO Y MONTAJE DE CAJA DE DERIVACIÓN DE PVC-M1 DE 90X90X42 MM, CON P.P. DE CABLE DE MEGAFONÍA 2,5 MM² HASTA ALTAVOZ O PROYECTOR SONORO, CLEMAS DE CONEXIÓN, Y ACCESORIOS DE FIJACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			78.000	10.28	801.84
997.0030N1	ud	TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			285.000	32.74	9,330.90
997.0272N1	m	CABLE DE MEGAFONÍA 2 (1 x 4) mm² SUMINISTRO, MONTAJE E INSTALACIÓN DE CABLE DE COBRE PARALELO DE 2X4 MM2 (ROJO-NEGRO) PARA AUDIO, CLASE CPR: DCA S1, D0, A1 Y CUMPLIENDO CON LAS NORMATIVAS UNE 50265-2-1, UNE 50265-2-2 Y UNE 50266-2-2. NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE CAJAS DE DERIVACIÓN, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			5,900.000	6.76	39,884.00
997.0271N1	ud	PROYECTOR BIDIRECCIONAL EVACUACIÓN 10+10 W 100 V SUMINISTRO E INSTALACIÓN DE PROYECTOR CILÍNDRICO BIDIRECCIONAL EVACUACIÓN, 10W, ABS, IP65 SEGÚN IEC 60529, BLANCO RAL 9010, 100V, MODELO LP1-BC10E-1 DE BOSCH, O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8.000	279.29	2,234.32
997.0270N1	ud	BOCINA EVACUACIÓN 30 W 100V SUMINISTRO E INSTALACIÓN DE BOCINA DE EVACUACIÓN DE 25 W, 100 V, 425 X 355 MM, IP65 SEGÚN IEC 60529, GRIS CLARO RAL 7035, MODELO LBC 3482/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			70.000	326.03	22,822.10
		TOTAL ELEMENTO 04.2.1.6.1 EQUIPOS EN TÚNEL			75,073.16
		ELEMENTO 04.2.1.6.2 EQUIPOS EN CUARTO TÉCNICO BOCA OESTE			
997.0268N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm² CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			2,000.000	8.76	17,520.00
997.0267N1	ud	ARMARIO RACK DE 19" 42 u DE ALTURA			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	1,730.53	1,730.53
997.0269N1	ud ETAPA DE POTENCIA DE 500 W SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		4.000	9,796.52	39,186.08
997.0266N1	ud ETAPA DE POTENCIA DE 250 W SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	8,585.58	17,171.16
997.0265N1	ud MICRO PUPITRE CONTROL SOBREMESA ETHERNET SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.			
		1.000	4,252.01	4,252.01
997.0133N1	ud LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	47.86	47.86
997.0715N1	ud UNIDAD SUPERVISIÓN SISTEMA MEGAFONÍA SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	8,103.86	8,103.86
	TOTAL ELEMENTO 04.2.1.6.2 EQUIPOS EN CUARTO TÉCNICO BOCA OESTE.....			88,011.50
	ELEMENTO 04.2.1.6.3 EQUIPOS EN CUARTO TÉCNICO BOCA ESTE			
997.0268N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm² CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		2,000.000	8.76	17,520.00
997.0267N1	ud ARMARIO RACK DE 19" 42 u DE ALTURA ARMARIO RACK DE 19" 42 U DE ALTURA, 800 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	1,730.53	1,730.53
997.0269N1	ud ETAPA DE POTENCIA DE 500 W SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 500 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		4.000	9,796.52	39,186.08
997.0266N1	ud ETAPA DE POTENCIA DE 250 W SUMINISTRO E INSTALACIÓN DE ETAPA DE POTENCIA DE 250 W BOSCH O SIMILAR, 100/70 V, SUPERVISIÓN TOTAL, INCLUYE CENTRAL CON CONEXIÓN ETHERNET, COMPATIBLE CON IEC60849, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PPTP.			
			2.000	8,585.58	17,171.16
997.0265N1	ud	MICRO PUPITRE CONTROL SOBREMESA ETHERNET SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.			
			1.000	4,252.01	4,252.01
997.0133N1	ud	LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	47.86	47.86
997.0715N1	ud	UNIDAD SUPERVISIÓN SISTEMA MEGAFONÍA SUMINSTRO, MONTAJE E INSTALACIÓN DE CODEC DE AUDIO, CONTROLADORES DE RED E INTERFAZ MULTICANAL PARA SU CONEXIÓN CON EL SISTEMA DE CONTROL INTEGRAL DEL TÚNEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	8,103.86	8,103.86
		TOTAL ELEMENTO 04.2.1.6.3 EQUIPOS EN CUARTO TÉCNICO BOCA ESTE			88,011.50
		ELEMENTO 04.2.1.6.4 EQUIPOS EN CENTRO DE CONTROL			
997.0111N1	ud	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	5,148.42	5,148.42
997.0133N1	ud	LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.000	47.86	95.72
997.0264N1	ud	ORDENADOR DE SUPERVISIÓN DE MEGAFONÍA SUMINISTRO E INSTALACIÓN DE ORDENADOR DE SUPERVISIÓN PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO			
			1.000	13,069.11	13,069.11
997.0265N1	ud	MICRO PUPITRE CONTROL SOBREMESA ETHERNET SUMINISTRO E INSTALACIÓN DE MICRO PUPITRE ETHERNET DE SOBREMESA PARA CONTROL DE LAS INSTALACIONES DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADA Y EN FUNCIONAMIENTO.			
			1.000	4,252.01	4,252.01
		TOTAL ELEMENTO 04.2.1.6.4 EQUIPOS EN CENTRO DE CONTROL			22,565.26
		TOTAL SUBAPARTADO 04.2.1.6 MEGAFONÍA.....			273,661.42
		SUBAPARTADO 04.2.1.7 CCTV			
		ELEMENTO 04.2.1.7.1 CCTV TÚNEL			
997.0002N1	ud	CÁMARA COLOR CCD 1/3" DÍA/NOCHE CON INFRARROJOS IP INSTALACIÓN DE TELECÁMARA COLOR TECNOLOGÍA IP FORMATO 1/3" CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO, ALTA RESOLUCIÓN DE 4 MEGPIXEL, 480 LÍNEAS COLOR (520 B/N) DE RESOLUCIÓN HORIZONTAL, 5 MBPS, OBJETIVO C Y CS, AUTOIRIS, CONTROL REMOTO, CON ALIMENTACIÓN ELÉCTRICA 220 VCA. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8.000	1,205.50	9,644.00
997.0002N2	ud	CÁMARA COLOR AVIOTEC IP STARLIGHT 8000 C/ DAI SUMINISTRO, MONTAJE E INSTALACIÓN DE CÁMARA DE COLOR IP FULL HD, CON ANÁLISIS DE DETECCIÓN AUTOMÁTICA DE INCIDENTES INTEGRADO, CON FUNCIÓN DÍA/NOCHE Y SENSOR DE INFRARROJOS, DETECCIÓN DE MOVIMIENTO. RESOLUCIÓN 1920X1080, 30 FPS Y CON FORMATO DE CODIFICACIÓN H 264, DE LA MARCA DE BOSCH O EQUIVALENTE, MODELO AVIOTEC IP STARLIGHT 8000. I/ PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			24.000	9,287.30	222,895.20
997.0233N1	ud	CÁMARA MOTORIZADA EXTERIOR INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	4,098.24	8,196.48
997.0232N1	ud	LENTE VARIFOCAL DE IRIS PASIVO 5-50 mm INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM. MODELO LTC 3374/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			24.000	236.44	5,674.56
997.0231N1	ud	LENTE VARIFOCAL DE IRIS PASIVO 5-50 mm CON CORRECCIÓN DE INFRARROJO INSTALACIÓN DE LENTE VARIFOCAL DE IRIS PASIVO 5-50MM CON CORRECCIÓN DE INFRARROJOS. MODELO LTC 3674/20 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			8.000	244.66	1,957.28
997.0230N1	ud	SOPORTE DE PARED DE 30 cm PARA CARCASAS DE CÁMARAS INSTALACIÓN DE SOPORTE DE PARED 30CM PARA CARCASAS DE CÁMARAS. MODELO LTC 9215/00 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			32.000	227.60	7,283.20
997.0229N1	ud	COLUMNA BASE HORMIGONADA DE 15 m COLUMNA DE BASE HORMIGONADA DE 15 M. PARA CÁMARA TV. (NO INCLUYE LA OBRA CIVIL)			
			4.000	420.94	1,683.76
997.0228N1	ud	CARCASA PARA CÁMARA Y LENTE 262 mm INSTALACIÓN DE CARCASA PARA CÁMARA + LENTE 262MM. 230VCA. CON CALEFACTOR. IP55. MODELO HSG 9853/50 DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATE-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			32.000	265.86	8,507.52
997.0227N1	ud	ARMARIO PIE DE CÁMARA 800 x 600 x 200 ARMARIO PIÉ DE CÁMARA 800X600X200. INCLUSO PROTECCIONES ELÉCTRICAS Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	905.07	1,810.14
997.0226N1	ud	CABLE DE MANGUERA DE 17 m CABLE DE MANGUERA DE 17 M. PARA SEÑALES DE CÁMARA TV EN POSTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	255.04	510.08
997.0225N1	m	CONDUCTOR FLEXIBLE AFUMEX 3 x 2,5 CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			915.000	10.61	9,708.15
997.0224N1	ud	EMPALME DE FIBRA ÓPTICA EMPALME DE FIBRA ÓPTICA, , INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	77.02	308.08
997.0223N1	m	CABLE UTP CAT VI CCTV INTERIOR SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.			
			2,800.000	13.61	38,108.00
997.0234N1	ud	LATIGUILLO FO SM PARA CCTV EXTERIOR SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MONOMODO, LONGITUD 2 M, CON CONECTORES SC/PC, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.			
			4.000	67.81	271.24
997.0222N1	ud	CONVERSOR DE MEDIO IP FO SM PARA CCTV EXTERIOR			
		SUMINISITRO E INSTALACIÓN DE CONVERSOR DE MEDIO IP A FIBRA ÓPTICA SM, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE PROBADO E INSTALADO.			
			4.000	1,082.69	4,330.76
997.0221N1	ud	CÁMARA DOMO EXTERIOR			
		SUMINISTRO E INSTALACIÓN DE CÁMARA DOMO DE EXTERIOR. FUNCIONES B/N - COLOR, 230VCA, MONTAJE EN POSTE, SALIDA DE FIBRA OPTICA. MODELO ENVD 230MF DE BOSCH O SIMILAR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	9,294.50	18,589.00
997.0220N1	ud	EMPALME TERMINAL DE 4FO SM EN CUARTOR TÉCNICOS Y CCTV			
		REALIZACIÓN DE EMPALMES EN TERMINAL DE 4 FIBRAS ÓPTICAS SM EN CUARTOS TÉCNICOS Y CCTV, INCLUSO MATERIAL PARA EMPALME DE FIBRA ÓPTICA Y PEQUEÑO MATERIAL, TOTALMENTE PROBADO Y FUNCIONANDO.			
			4.000	1,123.44	4,493.76
		TOTAL ELEMENTO 04.2.1.7.1 CCTV TÚNEL.....			343,971.21
		ELEMENTO 04.2.1.7.2 CENTRO DE CONTROL			
997.0140N1	ud	ARMARIO RACK DE 19"			
		ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	3,131.70	3,131.70
997.0219N1	m	CABLE COAXIAL RG-59			
		CABLE COAXIAL RG-59, TOTALMENTE TENDIDO, CONECTO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RIZADO Y CONEXIONADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			150.000	5.48	822.00
997.0218N1	ud	MONITOR DE COLOR DE ALTA RESOLUCIÓN			
		MONITOR DE COLOR DE ALTA RESOLUCIÓN 19", 700 LÍNEAS, PARA MONTAJE EN PANEL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			6.000	1,373.72	8,242.32
997.0217N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO			
		CONFIGURACIÓN Y PUESTA EN MARCHA DEL CIRCUITO CERRADO DE TELEVISIÓN, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.			
			1.000	5,039.32	5,039.32
997.0216N1	ud	DECODEC IP/PAL PARA MONITORES 4 SALIDAS			
		SUMINISTRO E INSTALACIÓN DE DECODEC IP/PAL, CON 4-CANALES MPEG-4 DE VIDEO, CALIDAD DVD-VIDEO (D1, 25/30 FPS), DISEÑO COMPACTO PARA ALTA DENSIDAD DE VIDEO, DUPLEX SERIAL DATA, MJPEG WEB VIEWING, ADVANCED VIDEO OVERLAY (OSD), INTERFACE WEB PROTEGIDO POR CONTRASEÑA, SOPORTA SNMPV2 Y NTP, Y RANGO EXTENDIDO DE TEMPERATURA. TOTALMENTE PROBADO Y FUNCIONANDO.			
			3.000	5,781.56	17,344.68
997.0215N1	ud	GRABADOR DIGITAL IP DE VIDEO			
		SUMINISTRO E INSTALACIÓN DE GRABADOR DIGITAL IP VIDEO I-SCSI (6TB) EN FORMATO RACK 19", CON CONFIGURACIÓN RAID 5 Y 4 DISCOS 2TB, CON CAPACIDAD DE HASTA 150 CÁMARAS. INCLUYE SOFTWARE COMERCIAL DE GESTIÓN DE GRABACIÓN EN ESTACIÓN DE TRABAJO/SERVIDOR. PERMITE BÚSQUEDA DE MOVIMIENTO EN LAS IMÁGENES GRABADAS (UMBRAL DE MOVIMIENTO CONFIGURABLE), ROLLBACK Y BÚSQUEDA DE GRABACIONES POR CÁMARA, TIPO, FECHA Y HORA. PROBADO Y EN PERFECTO FUNCIONAMIENTO.			
			1.000	33,165.17	33,165.17
997.0214N1	ud	SERVIDOR DE PROCESO VIDEO IP			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUMINISTRO E INSTALACIÓN DE SERVIDOR DE PROCESO HP Z200 WORKSTATION O SIMILAR CON EFFICIENT CHASSIS, MS WINDOWS 7 PROFESSIONAL 32-BIT OS, INTEL CORE I3-540 3.06 4MB/1333 DC CPU,4GB (2X2GB) DDR3-1333 ECC RAM, NVIDIA NVS 300 512MB GRAPHICS, 250GB SATA 7200 1ST HDD, USB STANDARD KEYBOARD, USB OPTICAL SCROLL MOUSE, 16X DVD+-RW SUPERMULTI SATA 1ST DRIVE, PANTALLA TFT 15", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	24,490.66	24,490.66
997.0213N1	ud TECLADO DE CONTROL PARA VIDEO IP SUMINISTRO E INSTALACIÓN DE TECLADO DE CONTROL PARA VIDEO IP, CONECTADO AL PUESTO DE CONTROL, JOYSTICK CON EFECTO DE HALL DE TRES EJES X/Y: PARA MOVIMIENTO VERTICAL Y HORIZONTAL, Z: BOTÓN PARA EL ZOOM, 6 TECLAS DE ACCESO DIRECTO A APLICACIONES DEFINIDAS. DELIMITADOR CUADRADO, MOVIMIENTO HORIZONTAL/VERTICAL (XY): +/- 15°, ZOOM (Z): +/- 25°.			
		1.000	5,054.66	5,054.66
997.0133N1	ud LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		7.000	47.86	335.02
	TOTAL ELEMENTO 04.2.1.7.2 CENTRO DE CONTROL			97,625.53
	TOTAL SUBAPARTADO 04.2.1.7 CCTV			441,596.74

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 04.2.1.8 PUESTOS SOS			
	ELEMENTO 04.2.1.8.1 TÚNEL			
997.0212N1	ud CIMENTACIÓN DE POSTE SOS CIMENTACIÓN DE POSTE SOS			
		4.000	267.63	1,070.52
997.0133N1	ud LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		12.000	47.86	574.32
997.0225N1	m CONDUCTOR FLEXIBLE AFUMEX 3 x 2,5 CONDUCTOR DE CABLE FLEXIBLE AFUMEX RZ1-K 0,6/1 KV, DE SECCIÓN 3X2,5 MM2, PARA CABLEADO DE ALIMENTACIÓN DESDE NICHO DE SOS A CÁMARA DE TV, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		160.000	10.61	1,697.60
997.0211N1	ud POSTE DE AUXILIO MAESTRO IP EN TÚNELES SUMINISTRO E INSTALACIÓN DE POSTE SOS MAESTRO DE INTERIOR. ELECTRÓNICA POSTE SOS/TCP/IP CON VIDEO FIBERGATE O SIMILAR. CONTROLADOR ELECTRÓNICO DE DOS POSTES SOS MAESTRO Y ESCLAVO. INCLUYE DOS PUERTOS 100 FX CON FIBRA MONOMODO PARA TOPOLOGÍA DE ANILLO, ELECTRÓNICA DE CONTROL DE AUDIO, ENTRADAS/SALIDAS DE CONTACTO Y UN ENCODER DE VIDEO MPEG4. 4 ENTRADAS DE VIDEO RG58. INSTALADO EN ARMARIO DE SOS DE ACERO INOXIDABLE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		12.000	3,916.56	46,998.72
997.0210N1	ud POSTE DE AUXILIO ESCLAVO EN TÚNEL SUMINISTRO E INSTALACIÓN DE POSTE DE AUXILIO ESCLAVO (S.O.S.) INTERIOR EN ARMARIO METÁLICO TROPICALIZADO, CON COMPARTIMENTO PARA 2 EXTINTORES DE 6 KG., PULSADOR DE LLAMADA, MICRÓFONO, ALTAVOZ, CAJA DE CONEXIONES, ELECTRÓNICA, FIJACIÓN A ARMARIO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4.000	1,903.62	7,614.48
997.0209N1	ud	POSTE DE AUXILIO ESCLAVO EXTERIOR SUMINISTRO Y MONTAJE DE PUESTOS SOS ESCLAVO DE EXTERIOR, INCLUYENDO MICRÓFONO Y ALTAVOZ DOBLE PARA COMUNICACIÓN "MANOS LIBRES" CON LA CASETA DE CONTROL, PULSADOR DE LLAMADA, CARCASA DE PROTECCIÓN EN FIBRA DE VIDRIO, CON CONTACTO DE APERTURA DE PUERTA, COMPLETAMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	1,737.20	6,948.80
997.0208N1	ud	PLAFÓN LUMINOSO SOS/EXTINTOR PLAFÓN LUMINOSO SOS/EXTINTOR DE MEDIDAS 600X500, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			16.000	522.44	8,359.04
997.0206N1	ud	SWITCH PARA POSTE SOS SWITCH PARA POSTE SOS, TIPO FIBERGATE O SIMILAR, EN CABINA DE 19" DE 3U. INCLUYE FUENTE DE ALIMENTACIÓN DE 220VAC, DOS PUERTOS DE FO MONOMODO 100BASEFX (1300NM) PARA DISTANCIAS HASTA 40KM APROX. CONECTORES TIPO SC. SEIS PUERTOS FJ45 10/100 BATE T/TX, DOS LÍNEAS SERIE ASÍNCRONAS CON CONECTOR DB9, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			12.000	433.40	5,200.80
997.0205N1	ud	CAJA DE FO PARA CONEXIÓN FO EN SOS SUMINISTRO E INSTALACIÓN DE CAJA DE FIBRA ÓPTICA PARA CONEXIÓN, INCLUSO PEQUEÑO MATERIAL Y FUNCIONANDO PERFECTAMENTE.			
			12.000	628.23	7,538.76
997.0204N1	m	CABLE DE 6 x 2 x 0,9 mm LSZH SUMINISTRO E INSTALACIÓN DE CABLE DE 6X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO, INCLUSO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			880.000	12.17	10,709.60
997.0207N1	ud	LATIGUILLO FIBRA ÓPTICA MONOMODO CONECTA EL SWITCH CON CAJA DE FO SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, QUE CONECTA EL SWITCH CON LA CAJA DE FIBRA ÓPTICA, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.			
			80.000	67.60	5,408.00
997.0018N1	m	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 micras, 8 FIBRAS INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 M, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			12.000	11.70	140.40
997.0203N1	m	CABLE 16 FO SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS LSZH SUMINISTRO E INSTALACIÓN DE CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO RELLENO DE GEL ANTIHUMEDAD, PROTECCIÓN FLEJE DE ACERO CORRUGADO, CUBIERTA TERMOPLÁSTICA LSZH NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2,090.000	16.49	34,464.10
997.0202N1	m	CABLE 8 FO SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS SUMINISTRO E INSTALACIÓN DE CABLE DE 8 FIBRAS ÓPTICAS SM ARMADO CON FLEJE DE ACERO 9/125 MICRAS, TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	PPTP.			
		200.000	11.61	2,322.00
	TOTAL ELEMENTO 04.2.1.8.1 TÚNEL			139,047.14
	ELEMENTO 04.2.1.8.2 CENTRO DE CONTROL			
997.0201N1	ud ORDENADOR SERVIDOR PROCESADOR PENTIUM IV			
	ORDENADOR SERVIDOR PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 15", INCLUIDO SISTEMA OPERATIVO WINDOWS XP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	15,042.32	15,042.32
997.0200N1	ud SOFTWARE DE APLIACIÓN DE SISTEMA SOS			
	ESTACIÓN REMOTA DE TÚNEL ERYT, 6 PUERTOS SERIE PARA PERIFÉRICOS RS232/RS422, 1 LÍNEA RS232 CON CC, ARMARIO IP55, FUENTE DE ALIMENTACIÓN. EQUIPADA CON 96 ENTRADAS DIGITALES, 64 SALIDAS DIGITALES Y 16 ENTRADAS ANALÓGICAS.			
		1.000	12,869.32	12,869.32
997.0199N1	ud CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS			
	CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA SOS, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES.			
		1.000	16,006.00	16,006.00
997.0133N1	ud LATIGUILLO RJ45			
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	47.86	95.72
	TOTAL ELEMENTO 04.2.1.8.2 CENTRO DE CONTROL			44,013.36
	TOTAL SUBAPARTADO 04.2.1.8 PUESTOS SOS			183,060.50

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 04.2.1.9 CONTROL DE TRÁFICO Y SEÑALIZACIÓN LUMINOSA			
997.0079N1	ud PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS DE 21 m DE LUZ			
	CONSTRUCCIÓN DE PÓRTICO VISITABLE PARA SEÑALES LUMINOSAS, DE 21 M DE LUZ, CON ESCALERA Y BARANDILLA, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.			
		4.000	35,241.51	140,966.04
997.0080N1	ud PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 m DE LUZ			
	CONSTRUCCIÓN DE PÓRTICO NO VISITABLE PARA SEÑALES LUMINOSAS DE 21 M DE LUZ, QUE TIENEN DOS APOYOS. TOTALMENTE MONTADO, EXCEPTO CARTELES. INCLUYE CIMENTACIÓN EN MACIZOS DE HORMIGÓN.			
		4.000	32,889.49	131,557.96
997.0198N1	ud SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR			
	SEÑAL VARIABLE DE LÍMITE DE VELOCIDAD DE EXTERIOR, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		6.000	3,389.05	20,334.30
997.0196N1	ud SEMÁFORO MODULAR DE TECNOLOGÍA LED 2/300 Y PANTALLA DE CONTRASTE			
	SEMÁFORO MODULAR DE TECNOLOGÍA LEDS DE 2 FOCOS DE 300 MM (2/300), INCLUYENDO PANTALLA DE CONTRASTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		4.000	1,036.21	4,144.84
997.0195N1	ud PANEL DE MENSAJE VARIABLE ALFANUMÉRICO DE 3 x 12 Y 2 GRÁFICOS DE 1400 x 1400			
	PANEL DE MENSAJE VARIABLE COMPUESTO POR PANEL ALFANUMÉRICO DE 3 FILAS POR 12 CARACTERES DE 300 MM Y DOS PANELES GRÁFICOS DE 1400X1400, IP-55, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		2.000	59,804.48	119,608.96
997.0194N1	ud PANEL STOP A X00 Y 2 PILOTOS AMBAR PANEL STOP A X00 M + 2 PILOTOS ÁMBAR-ÁMBAR, ACTIVACIÓN POR CONTACTOS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		6.000	3,001.03	18,006.18
997.0193N1	ud SEÑAL ASPA-FLECHA DE EXTERIOR DE 1000 x 1000 x 200 SEÑAL ASPA-FLECHA DE EXTERIOR, DIMENSIONES 1000X1000X200 MM, COMUNICACIONES SERIE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		18.000	3,526.85	63,483.30
997.0011N1	ud ARMARIO METÁLICO PARA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC ARMARIO METÁLICO DE DIMENSIONES ADECUADAS PARA LA INSTALACIÓN DE LA FUENTE DE ALIMENTACIÓN, SENSOR DE NIVEL Y PLC.			
		12.000	1,645.46	19,745.52
997.0192N1	ud CONVERSOR DE RS-485 A IP SUMINISTRO E INSTALACIÓN DE CONVERSOR DE RS-485 A IP, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE PROBADO Y FUNCIONANDO.			
		26.000	1,206.83	31,377.58
997.0077N1	m CABLE DE 2 x 2 x 0,9 mm, EAPS-R INSTALACIÓN DE 2 X 2 X 0,9 MM, EAPSP-R, ARMADO, TRENZADO Y APANTALLADO PARA EL CONTROL DEL INSTALACIONES.			
		86.000	3.54	304.44
	TOTAL SUBAPARTADO 04.2.1.9 CONTROL DE TRÁFICO Y SEÑALIZACIÓN LUMINOSA.....			549,529.12

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 04.2.1.10 CONTROL DE ACCESOS			
997.0190N1	ud DETECTOR A MICROPROCESADOR DE VEHÍCULOS DETECTOR A MICROPROCESADOR DE VEHÍCULOS PARA LAZO ELECTROMAGNÉTICO, DE 2 CANALES, AUTOADAPTABLE Y AUTOAJUSTABLE. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		12.000	387.71	4,652.52
997.0189N1	ud BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO BARRERA MECÁNICA PARA CONTROL DE ALTURA DE GÁLIBO, COMPUESTA POR PÓRTICO DE ACERO GALVANIZADO, PANELES DE BALIZAMIENTO REFLECTANTE TB-5 PINTADAS EN FRANJAS ROJAS Y BLANCAS, COLGADAS DEL PÓRTICO MEDIANTE CADENAS DE SUJECIÓN, INCLUYE CIMENTACIÓN, CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		5.000	12,672.83	63,364.15
997.0188N1	ud SEÑAL METÁLICA DE EXCESO DE GÁLIBO DE SEÑAL DE EXCESO DE GÁLIBO DE 2.500 X 1925 MM TOTALMENTE INSTALADA. SEGÚN PPTP			
		2.000	834.80	1,669.60
997.0187N1	ud LATIGUILLO FIBRA ÓPTICA MONOMODO 2 m SUMINISTRO E INSTALACIÓN DE LATIGUILLO FIBRA ÓPTICA MONOMODO, LONGITUD 2 M, CON CONECTORES ST, I/ PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y EN FUNCIONAMIENTO.			
		8.000	68.38	547.04
997.0185N1	ud ESPIRA ELECTROMAGNÉTICA ESTANDAR DE 2 x 2 m ESPIRA ELECTROMAGNÉTICA SOTERRADA EN EL PAVIMENTO DE MEDIDA ESTANDAR 2X2 M, COMPUESTA POR REGATA, CABLE ESPECIAL DE 2,5 MM, RESINA SINTÉTICA DE RECUBRIMIENTO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		12.000	69.71	836.52
997.0186N1	ud ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD 8 DETECTORES ESTACIÓN DE TOMA DE DATOS CON CAPACIDAD PARA 8 DETECTORES DOBLES. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	1,570.98	3,141.96
997.0184N1	ud BARRERA AUTOMÁTICA DE BRAZO DE 8 m BARRERA AUTOMÁTICA DE BRAZO DE ALUMINIO DE 8 M. INCLUYE CABLEADO, CANALIZACIÓN, FUENTE DE ALIMENTACIÓN Y CAJA EXTERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		4.000	771.20	3,084.80
997.01187N1	ud DETECCIÓN AUTOMÁTICA DE VEHÍCULOS SOBRECALENTADOS SUMINISTRO, MONTAJE E INSTALACIÓN DE SISTEMA DE DETECCIÓN AUTOMÁTICA DE PIEZAS SOBRECALENTADAS DE VEHÍCULOS DE LA MARCA SICK O EQUIVALENTE. INCORPORA CÁMARA TERMOGRÁFICA (INCLUYE CARCASA Y CALEFACCIÓN INTERIOR) Y SENSOR 2D-LIDAR PARA DETECTAR VEHÍCULOS SOBRECALENTADOS, INSTALADO EN ARCO DE SEÑALIZACIÓN ANTES DE LA ENTRADA EN EL TÚNEL PARA PODER DETENER EL VEHÍCULO SOBRECALENTADO Y NO PERMITIRLE EL ACCESO HASTA SU REFRIGERACIÓN. EL SISTEMA MIDE LA TEMPERATURA Y LAS DIMENSIONES DE CADA VEHÍCULO, DETERMINA LA CLASE DE VEHÍCUOLO Y GENERA UNA IMAGEN 3D, PERMITE IDENTIFICAR LA PARTE SOBRECALENTADA DEL VEHÍCULO: RUEDAS, MOTOR, CARGA, ESCAPES, ETC. INCLUYE ACCESORIOS DE MONTAJE, CARCASAS, SUJECCIONES, CONEXIONES, CAJAS DE REGISTRO, CABLEADO, CANALIZACIÓN, ETC. TOTALMENTE INSTALADO SEGÚN NORMATIVA VIGENTE Y A JUICIO DE LA DF.			
		6.000	11,456.40	68,738.40
TOTAL SUBAPARTADO 04.2.1.10 CONTROL DE ACCESOS.....				146,034.99

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 04.2.1.11 DETECCIÓN DE INTRUSIÓN			
997.0086N1	ud CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		36.000	47.06	1,694.16
997.0030N1	ud TUBO METÁLICO FLEXIBLE LH, DIÁMETRO MÁXIMO 32 mm SUMINISTRO E INSTALACIÓN DE TUBO METÁLICO FLEXIBLE, LIBRE DE HALÓGENOS, DE DIÁMETRO MÁXIMO DE 32 MM, I/ PEQUEÑO MATERIAL. TOTALMENTE INSTALADO Y FUNCIONANDO.			
		180.000	32.74	5,893.20
TOTAL SUBAPARTADO 04.2.1.11 DETECCIÓN DE INTRUSIÓN.....				7,587.36
	SUBAPARTADO 04.2.1.12 SISTEMA DE CONTROL			
997.0053N1	ud SAI TRIFÁSICO 12 kVA SISTEMA DE ALIMENTACIÓN INITERRUMPIDA DE 12 KVA, 400/230 V, CON AUTONOMÍA DE 15 MINUTOS, CON ARMARIOS DE ELECTRÓNICA Y BATERÍAS. INCLUYEN INTERFACES DE COMUNICACIÓN POR CANAL SERIE, RS-232 Y RS-485, INCORPORANDO TARJETA DE SALIDAS DIGITALES O INTERFAZ DE COMUNICACIÓN ETHERNET PARA FACILITAR SU SUPERVISIÓN DESDE UN SISTEMA TIPO ESCADA (BMS), I/ TRANSPORTE Y PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	3,837.97	3,837.97
997.0087N1	ud DOBLE ESTACIÓN REMOTA UNIVERSAL ERU DOBLE ESTACIÓN REMOTA UNIVERSAL ERU REDUNDANTE, DOBLE ENLACE ETHERNET, A UBICAR EN LOCALES TÉCNICOS SOBRE RACK DE 19", INCLUSO TARJETAS DE COMUNICACIONES CON BUS DE CAMPO PARA CONTROL DISTRIBUIDO, CANALES SERIE Y RED ETHERNET, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		2.000	16,439.12	32,878.24
997.0088N1	ud PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC PUESTO DE OPERADOR / INGENIERÍA BASADO EN PC PROCESADOR PENTIUM IV 2,4 GHZ O SUPERIOR, DISQUETERA 3.5", LECTOR CD-ROM, TARJETA DE RED ETHERNET 10/100 INTEGRADA, PANTALLA TFT 18", INCLUIDO SISTEMA OPERATIVO WINDOWS 2000 X-PRO O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	3,297.41	6,594.82
997.0089N1	ud SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DE TÚNEL SOFTWARE DE BASE PARA SISTEMA DE GESTIÓN DEL TÚNEL COMPUESTO POR: - SOFTWARE DE BASE DE DATOS ORACLE O SIMILAR - SOFTWARE DE INTEGRACIÓN DE SISTEMAS (MIDDLEWARE) TIPO CORBA, J2E O SIMILAR - SOFTWARE GESTOR DE REDUNDANCIA DE SERVIDORES - SOFTWARE DE GESTIÓN DE LA RED DE COMUNICACIONES TOTALMENTE INSTALADOS INCLUYENDO CONFIGURACIÓN, PUESTA EN MARCHA, DOCUMENTACIÓN Y FORMACIÓN DE TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL			
		1.000	19,689.50	19,689.50
997.0090N1	ud IMPRESORA LASER B/N IMPRESORA LÁSER B/N, INTERFACE PARALELO, RESOLUCIÓN 4200X1200 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	800.70	800.70
997.0091N1	ud IMPRESORA INYECCIÓN DE TINTA COLOR IMPRESORA INYECCIÓN DE TINTA COLOR, INTERFACE PARALELO, RESOLUCIÓN 600X600 PPP O SUPERIOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	376.70	376.70
997.0092N1	ud MOBILIARIO DE OPERADORES MOBILIARIO DE OPERADORES, COMPUESTOS POR ZONA DE TRABAJO Y ENCIMERA SOBRE ELEVADA PARA MONITORES, EN TABLERO PRENSADO DE 30 MM DE ESPESOR REVESTIDO DE LAMINADO ALTA PRESIÓN ANTIRREFLEXIVO Y ANTIRRAYADO, ESTRUCTURA INTERIOR A BASE DE CHASIS MODULAR DE ALUMINIO EXTRUSIONADO, ALTURA REGULABLE MEDIANTE POSICIONES FIJAS, SOPORTE MONITORES METÁLICO CON REJILLAS DE VENTILACIÓN, PUERTAS TRASERAS DOBLES, KIT DE ELECTRIFICACIÓN CON CANALETAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	24,930.52	24,930.52
997.0093N1	m CABLE DE 1 x 2 0,9 mm ARMADO Y APANTALLADO SUMINISTRO E INSTALACIÓN DE CABLE DE 1X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		8,999.000	7.26	65,332.74
997.0094N1	m CABLE DE 4 x 2 x 0,9 mm ARMADO Y APANTALLADO SUMINISTRO E INSTALACIÓN DE CABLE DE 4X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		3,752.000	12.00	45,024.00
997.0095N1	m CABLE MULTIFILAR COMUNICACIONES ARMARIOS ELECTRICOS SUMINISTRO E INSTALACIÓN DE CABLE DE 20X2X0.9 MM, EATST ARMADO, TRENZADO Y APANTALLADO, CUBIERTA CON PROPIEDADES ADECUADAS A INCENDIO (BAJA EMISIÓN DE HUMOS, LIBRE DE HALÓGENOS, NO PROPAGADOR DE LA LLAMA Y NO PROPAGADOR DEL INCENDIO), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		400.000	21.69	8,676.00
997.0096N1	m BANDEJA METÁLICA CON TAPA DE 200*60 PARA SOS SUMINISTRO E INSTALACIÓN DE BANDEJA METÁLICA CON TAPA DE 200X60, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN Y TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		135.000	143.77	19,408.95
997.0097N1	ud PLC DE CONTROL 32 ED 8SD 4EA SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 16 ENTRADAS DIGITALES, 1 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	14.000	4,600.72	64,410.08
997.0098N1	ud PLC DE CONTROL 64ED 24SD 2EA SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 3 TARJETAS DE 8 SALIDAS DIGITALES, 1 TARJETAS DE 2 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	12.000	5,300.80	63,609.60
997.0099N1	ud PLC DE CONTROL 64ED 24SD 8EA SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 4 TARJETAS DE 16 ENTRADAS DIGITALES, 4 TARJETAS DE 8 SALIDAS DIGITALES, 2 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	6,260.63	12,521.26
997.0100N1	ud PLC DE CONTROL 96ED 96SD 1MOD BUS SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFACE ETHERNET CON ERU, 6 TARJETAS DE 16 ENTRADAS DIGITALES, 6 TARJETAS DE 16 SALIDAS DIGITALES, 1 TARJETAS DE 4 ENTRADAS ANALÓGICAS, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	LADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	4.000	9,372.27	37,489.08
997.0029N1	ud PLC DE CONTROL 32 ED 16 SD (2 TARJETAS DE 16 ED) SUMINISTRO E INSTALACIÓN DE PLC DE CONTROL FORMADO POR CPU, FUENTE DE ALIMENTACIÓN, INTERFAZ ETHERNET CON ERU, 2 TARJETAS DE 32 ENTRADAS DIGITALES, 1 TARJETA DE 16 SALIDAS DIGITALES, PROTECCIONES, BORNAS SECCIONABLES Y RELÉS, INCLUSO PROGRAMACIÓN Y DOCUMENTACIÓN, I/ PEQUEÑO MATERIAL. TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO.	20.000	3,584.74	71,694.80
997.0302N1	m CABLEADO FTP CATEGORÍA 6 PVC I/CANALIZACIÓN CABLEADO HORIZONTAL DE PAR TRENZADO, FORMADA POR CABLE FTP DE 4 PARES, CATEGORÍA 6 PVC, EN MONTAJE EN CANAL O BANDEJA (NO INCLUIDA), INSTALADO, MONTAJE Y CONEXIONADO. INCLUYE PARTE PROPORCIONAL DE CANALIZACIÓN BAJO TUBO CORRUGADO LH DE DIÁMETRO 32 PARA TRAMOS DEONDE NO EXISTA BANDEJA. CONFORME A ISO/IEC 11801:2017, IEC 61156-5:2020, UNE-EN 50173-1:2018, UNE-EN 50288-6-1:2013. MATERIALES CON MARCADO CE Y DDP (DECLARACIÓN DE PRESTACIONES) SEGÚN REGLAMENTO (UE) 305/2011.	1,050.000	6.41	6,730.50
997.0101N1	ud SERVIDOR DE PROCESO CPU INTEL PENTIUM 4 SERVIDOR DE PROCESO CPU INTEL PENTIUM 4 - 3 GHZ O SUPERIOR, RAM 1 GB, TARJETA GRÁFICA XVGA 16 MB - RAM, CONTROLADORA UW SCSI RAID, 3 DISCOS SCSI 100 GB, DISQUETERA 1.44/120 MB, 2 TARJETAS LAN 100/1000 MBPS, MONITOR TFT 15", TECLADO, 1 RATÓN, 1 PORT CENTRONICS + 2 PORTS RS-232, UNIDAD MAGNETO-ÓPTICA DE 1.3 GB INTERNA SCS, REGRABADORA CD-WRITER 9210I (32X8X4) SCSI, WINDOWS NT WORKSTATION 4.0 O SUPERIOR PREINSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	23,183.80	46,367.60
997.0102N1	ud LICENCIA DE APLICACIÓN Y GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DE TÚNEL LICENCIA DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	17,490.00	17,490.00
997.0103N1	ud	PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN Y EXPLOTACIÓN PROGRAMACIÓN Y CONFIGURACIÓN DE APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO TANTO EN CAMPO COMO EN SALA DE CONTROL.			
			1.000	40,280.00	40,280.00
997.0104N1	ud	PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN Y EXPLOTACIÓN PUESTA EN MARCHA DE LA APLICACIÓN DE GESTIÓN, EXPLOTACIÓN Y VISUALIZACIÓN DEL TÚNEL Y SISTEMAS ASOCIADOS, TOTALMENTE INSTALADO, INCLUYENDO TODO EL SISTEMA TANTO EN CAMPO COMO EN SALA DE CONTROL ASÍ COMO INTEGRACIÓN DE LOS DIFERENTES SUBSISTEMAS QUE COMPONEN LAS INSTALACIONES DE GESTIÓN DEL TÚNEL.			
			1.000	12,190.00	12,190.00
997.0105N1	ud	INGENIERIA DE INTEGRACIÓN DE ERUs Y PLCs DE CONTROL INGENIERÍA DE INTEGRACIÓN DE ERUS Y PLCS DE CONTROL EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	20,733.60	20,733.60
997.0106N1	ud	INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE INCENDIOS INTEGRACIÓN DE SISTEMA DE DETECCIÓN LINEAL DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	6,211.60	6,211.60
997.0107N1	ud	INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCENDIOS INTEGRACIÓN DE CENTRALITAS DE DETECCIÓN DE INCENDIOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	4,929.00	4,929.00
997.0108N1	ud	INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN INTEGRACIÓN DE PANELES GRÁFICOS DE SEÑALIZACIÓN Y PANELES ALFANUMÉRICOS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	5,194.00	5,194.00
997.0109N1	ud	INTEGRACIÓN DE SISTEMA DE POSTES SOS INTEGRACIÓN DE SISTEMA DE POSTES SOS, TOTALMENTE INSTALADO			
			1.000	5,141.00	5,141.00
997.0110N1	ud	INTEGRACIÓN DE SISTEMA DE VIDEO EN SISTEMA DE GESTIÓN INTEGRACIÓN DE SISTEMA DE VÍDEO EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO, INCLUYENDO CONFIGURACIÓN.			
			1.000	5,252.30	5,252.30
997.0111N1	ud	INTEGRACIÓN DE SISTEMA DE MEGAFONÍA INTEGRACIÓN DE SISTEMA DE MEGAFONÍA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	5,148.42	5,148.42
997.0112N1	ud	INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA INTEGRACIÓN DE ESTACIÓN METEOROLÓGICA EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	2,744.34	2,744.34
997.0113N1	ud	INTEGRACIÓN DE SISTEMA DAI INTEGRACIÓN DE SISTEMA DAI EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	4,123.40	4,123.40
997.0114N1	ud	INTEGRACIÓN DE ANALIZADORES DE REDES INTEGRACIÓN DE ANALIZADORES DE REDES EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			
			1.000	2,814.30	2,814.30
997.0115N1	ud	INTEGRACIÓN ETDs INTEGRACIÓN ETDS EN SISTEMA DE GESTIÓN, TOTALMENTE INSTALADO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO RESUMEN CANTIDAD PRECIO IMPORTE (€)

TALMENTE INSTALADO.

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	20,246.00	20,246.00
997.0116N1	ud	CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA CURSO DE FORMACIÓN Y DOCUMENTACIÓN DEL SISTEMA, TOTALMENTE INSTALADO.			
			1.000	16,206.34	16,206.34
997.0223N1	m	CABLE UTP CAT VI CCTV INTERIOR SUMINISTRO, TENDIDO E INSTALACIÓN DE CABLE UTP CATEGORÍA 6, INCLUSO PEQUEÑO MATERIAL DE APOYO, TOTALMENTE INSTALADO Y FUNCIONANDO.			
			1,650.000	13.61	22,456.50
997.0140N1	ud	ARMARIO RACK DE 19" ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			5.000	3,131.70	15,658.50
		TOTAL SUBAPARTADO 04.2.1.12 SISTEMA DE CONTROL.....			737,192.36
		SUBAPARTADO 04.2.1.13 RADIOCOMUNICACIONES			
		ELEMENTO 04.2.1.13.1 ESTACIÓN DE CAPTACIÓN			
997.0117N1	ud	ANTENA DE CAPTACIÓN FM INSTALACIÓN EN MÁSTIL DE ANTENA DE CAPTACIÓN FM. INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	394.26	788.52
997.0118N1	m	CABLE COAXIAL 1/2" CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			836.000	8.91	7,448.76
997.0119N1	ud	AMPLIFICADOR SELECTIVO DE CANAL FM INSTALACIÓN DE AMPLIFICADOR SELECTIVO DE CANAL FM			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PARA 4 CANALES. CON INSERCIÓN DE MENSAJES PROCEDENTES DEL SISTEMA DE MEGAFONÍA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	14,411.48	28,822.96
997.0120N1	ud	ARMARIO RACK DE 19" 36 U DE ALTURA ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	1,768.56	3,537.12
		TOTAL ELEMENTO 04.2.1.13.1 ESTACIÓN DE CAPTACIÓN			40,597.36
		ELEMENTO 04.2.1.13.2 ELEMENTOS EN EL TÚNEL			
997.0120N1	ud	ARMARIO RACK DE 19" 36 U DE ALTURA ARMARIO RACK DE 19" 36 U DE ALTURA, 600 MM ANCHO, 600 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA METÁLICA CON CERRADURA, INCLUYENDO UNIDADES DE VENTILACIÓN E INTERRUPTOR MAGNETOTÉRMICO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2.000	1,768.56	3,537.12
997.0121N1	ud	CONFIGURACIÓN Y PUESTA EN MARCHA DE SISTEMA DE RADIO COMÚN CONFIGURACIÓN Y PUESTA EN MARCHA DEL SISTEMA DE RADIOCOMUNICACIONES, INCLUSO DOCUMENTACIÓN Y FORMACIÓN DE OPERADORES, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			1.000	16,176.02	16,176.02
997.0122N1	m	CABLE COAXIAL RADIANTE 1 - 5/8" CABLE COAXIAL RADIANTE 1 - 5/8", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			2,371.000	20.75	49,198.25

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
997.0123N1	ud	GRAPA PARA FIJACIÓN DE CABLE RADIANTE GRAPA PARA FIJACIÓN DE CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1,245.000	3.70	4,606.50
997.0124N1	ud	CARGA FINAL PARA CABLE RADIANTE CARGA FINAL PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	6.000	84.07	504.42
997.0125N1	ud	CONECTOR PARA CABLE RADIANTE CONECTOR PARA CABLE RADIANTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	8.000	137.70	1,101.60
997.0126N1	ud	DUPLEXOR INSTALACIÓN DE DUPLEXOR, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	343.59	687.18
997.0127N1	ud	SPLITTER DE 2 VIAS SPLITTER DE 2 VÍAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	504.81	1,009.62
997.0118N1	m	CABLE COAXIAL 1/2" CABLE COAXIAL 1/2", INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.	90.000	8.91	801.90
		TOTAL ELEMENTO 04.2.1.13.2 ELEMENTOS EN EL TÚNEL			77,622.61
		TOTAL SUBAPARTADO 04.2.1.13 RADIOCOMUNICACIONES			118,219.97

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 04.2.1.14 ESTACIÓN METEOROLÓGICA			
997.0128N1	ud	ESTACIÓN METEOROLÓGICA ESTACIÓN METEOROLÓGICA MARCA VAISALA MODELO ROSA/DM31 O SIMILAR PARA LA ADQUISICIÓN Y TRATAMIENTO DE DATOS, COMPUESTA POR: * CPU * INTERFACE PARA SENSORES DRI50 O SIMILAR * CHASIS DMF31 O SIMILAR * ARMARIO PARA FIJACIÓN A MÁSTIL Y ACCCESORIOS * SALIDA RS-232 * PROTOCOLO DGT * SENSORES DE TEMPERATURA Y HUMEDAD RELATIVA * CARCASA ANTIRRADIACIÓN PARA SENSOR DE TEMPERATURA Y HUMEDAD RELATIVA * SENSORES DE ESTADO DE SUPERFICIE DE CALZADA * CONJUNTOS DE MEDIDA DE VIENTO COMPUESTO POR: - SENSOR DE VELOCIDAD DE VIENTO - SENSOR DE DIRECCIÓN DE VIENTO - TRANSMISOR ANALÓGICO, INCLUSO CRUCETA * SENSORES DE VISIBILIDAD Y TIEMPO PRESENTE, RANGO DE MEDIDA DE 10/2.000 M. * SENSORES DE PRESIÓN ATMOSFÉRICA, RANGO DE MEDIDA DE 800/1060 HPA * SENSORES DE RADIACIÓN SOLAR INCLUYENDO INTERFACE PARA ROSA/DM31 O SIMILAR * BRAZOS SOPORTE CON ACCESORIOS TOTALMENTE MONTADA, INSTALADA Y PROBADA	1.000	30,064.30	30,064.30
997.0129N1	ud	COLUMNA METÁLICA PRECONEXIONADA PARA METEO 6 METROS SUMINISTRO E INSTALACIÓN DECOLUMNA METÁLICA PRECONEXIONADA DE 6 METROS PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	1.000	6,624.55	6,624.55
997.0130N1	ud	ARMARIO CONEXIONADO PARA METEO SUMINISTRO E INSTALACIÓN DE ARMARIO CONEXIONADO PARA METEO, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.	1.000	3,284.62	3,284.62
997.0182N1	ud	CONVERTIDOR DE RS-422A A IP			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUMINISTRO E INSTALACIÓN DE CONVERTIDOR DE RS-422 A IP, INCLUSO PEQUEÑO MATERIAL, TOTALMENTE INSTALADO, PROBADO Y FUNCIONANDO.			
		1.000	1,125.96	1,125.96
997.0181N1	ud CONVERTIDOR DE RS-232 A RS-485			
	CONVERTIDOR RS-232 A RS-485, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		1.000	45.63	45.63
	TOTAL SUBAPARTADO 04.2.1.14 ESTACIÓN METEOROLÓGICA.....			41,145.06
	SUBAPARTADO 04.2.1.15 FIBRA ÓPTICA Y RED DE COMUNICACIONES			
997.0131N1	ud SWITCH GIGABIT ETHERNET 24 PUERTOS			
	SWITCH GIGABIT ETHERNET, LAYER 2/3 SWITCHING, 24 PUERTOS 10/100 BASET, 2 PUERTOS 1000 MBPS, 2 PUERTOS LH-LC MINI GBIC (GIGABIT INTERFACE CONVERTER), INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		3.000	9,604.46	28,813.38
997.0132N1	ud PANEL DE PARCHEO 24 PUERTOS			
	SUMINISTRO PANEL DE PARCHEO DE 24 PUERTOS RJ-45, CLASE 6, CON ETIQUETAS FRONTALES Y TRASERAS, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2.000	280.59	561.18
997.0133N1	ud LATIGUILLO RJ45			
	LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		47.000	47.86	2,249.42
997.0134N1	ud PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO			
	PANEL CON 5 TOMAS DE CORRIENTE TIPO SCHUKO 2P+TT, INTERRUPTOR BIPOLAR 16 A 250 V CON PILOTO, PARA			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	MONTAJE EN RACK 19", 2 U ALTURA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		3.000	58.65	175.95
997.0135N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS 8 FIBRAS			
	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 8 FIBRAS, ESTRUCTURA HOLGADA, MONOTUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		2,111.000	17.50	36,942.50
997.0136N1	m CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS 16 FIBRAS			
	CABLE DE FIBRA ÓPTICA MONOMODO 9/125 MICRAS, 16 FIBRAS, ESTRUCTURA HOLGADA, MULTITUBO, PROTECCIÓN FIBRA DE VIDRIO, RELLENO ANTIHUMEDAD, RECUBRIMIENTO NO PROPAGADOR DE LA LLAMA, BAJA EMISIÓN DE HUMOS Y LIBRE DE HALÓGENOS. TOTALMENTE TENDIDO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		450.000	19.46	8,757.00
997.0137N1	ud PIG-TAIL FIBRA ÓPTICA MONOMODO 2 M ST			
	PIG-TAIL FIBRA ÓPTICA MONOMODO, FUNDA PROTECCIÓN 3 MM, 2 M LONGITUD, CON CONECTOR ST, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		382.000	23.90	9,129.80
997.0138N1	ud BANDEJA DE EMPALME FIBRA ÓPTICA			
	SUMINISTRO E INSTALACIÓN DE BANDEJA DE EMPALME PARA FIBRA ÓPTICA, EXTRAÍBLE, FORMATO RACK 19", 1 U DE ALTURA, INCLUYENDO PANEL DE PARCHEO ADECUADO A 16 CONECTORES SC/PC, INCLUSO PEQUEÑO MATERIAL TOTALMENTE INSTALADO PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		12.000	132.55	1,590.60

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
997.0139N1	ud	EMPALME RECTO 16 FO FINAL DE BOBINA REALIZACIÓN DE EMPALME RECTO DE 16 FIBRAS ÓPTICAS, FINAL DE BOBINA, INCLUSO PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	2.000	5,207.28	10,414.56
997.0811N1	ud	FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA FIBRA ÓPTICA REALIZACIÓN DE FUSIÓN Y PRUEBAS DE REFLECTOMETRÍA PARA FIBRA ÓPTICA DE CONEXIÓN A EQUIPOS. INCLUSO EQUIPOS PARA PRUEBAS, MANO DE OBRA, INFORME DE PRUEBAS, PEQUEÑO MATERIAL DE INSTALACIÓN, TOTALMENTE INSTALADO Y FUNCIONANDO.	124.000	116.39	14,432.36
		TOTAL SUBAPARTADO 04.2.1.15 FIBRA ÓPTICA Y RED DE COMUNICACIONES			113,066.75
		SUBAPARTADO 04.2.1.16 DETECCIÓN AUTOMÁTICA DE INCIDENTES			
997.0133N1	ud	LATIGUILLO RJ45 LATIGUILLO RJ45/RJ45, UTP, CATEGORÍA 6, 1 M DE LONGITUD, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	5.000	47.86	239.30
997.0140N1	ud	ARMARIO RACK DE 19" ARMARIO RACK DE 19" 42 U DE ALTURA, 600 MM ANCHO, 800 MM DE FONDO, AUTOPORTANTE, METÁLICO PINTADO EN EPOXI, PUERTA DE CRISTAL CON CERRADURA, INCLUYENDO UNIDAD DE VENTILACIÓN, REGLETA DE ALIMENTACIÓN CON INTERRUPTOR, BORNEROS, Y PEQUEÑO MATERIAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	1.000	3,131.70	3,131.70
997.0141N1	ud	PANEL CIEGO DE 2RU PANEL CIEGO DE 2RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	23.86	47.72

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
997.0142N1	ud	PANEL CIEGO DE 4RU PANEL CIEGO DE 4RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	44.38	88.76
997.0143N1	ud	PANEL CIEGO CON REJILLA PANEL CIEGO CON REJILLA DE 1RU DE ALTURA, 19", 3MM DE GROSOR, FABRICADO EN ALUMINIO, ACABADO DE PINTURA NEGRA EN POLVO DE GRAN RESISTENCIA Y BORDES SERIGRAFIADOS, INCLUIDOS TORNILLOS Y TUERCAS PARA SU MONTAJE, TIPO ORTRONICS O EQUIVALENTE, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	21.93	43.86
997.0144N1	ud	LICENCIAS DEL SISTEMA DAI SUMINISTRO DE LICENCIA DEL SISTEMA DAI CON 1 ENTRADA DE VIDEO, TOTALMENTE FUNCIONANDO.	24.000	5,073.05	121,753.20
997.0145N1	ud	ANALIZADOR DEL SISTEMA DAI ANALIZADOR DEL SISTEMA DAI TIPO RACK INDUSTRIAL	1.000	21,922.07	21,922.07
997.0146N1	ud	PUESTA EN MARCHA SISTEMA DAI PUESTA EN MARCHA DEL SISTEMA DAI, Y FORMACIÓN DE OPERADORES.	1.000	7,208.23	7,208.23
		TOTAL SUBAPARTADO 04.2.1.16 DETECCIÓN AUTOMÁTICA DE INCIDENTES			154,434.84
		TOTAL APARTADO 04.2.1 INSTALACIONES TÚNEL EIROAS			8,001,942.05

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 04.2.2 EDIFICIO EQUIPOS BOCA OESTE			
		SUBAPARTADO 04.2.2.1 ARQUITECTURA			
		ELEMENTO 04.2.2.1.1 CIMENTACIONES Y ESTRUCTURA			
997.0147N1	ud	ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.	337.500	74.10	25,008.75
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	69.000	109.05	7,524.45
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	3,000.000	1.81	5,430.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	9.500	56.71	538.75
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			32.820	113.62	3,729.01
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	274.630	33.91	9,312.70
		TOTAL ELEMENTO 04.2.2.1.1 CIMENTACIONES Y ESTRUCTURA			51,543.66
		ELEMENTO 04.2.2.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			
997.0148N1	m²	RECIBIDO DE CERCOS RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.	57.980	12.35	716.05
997.0149N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	176.420	30.16	5,320.83
997.0150N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTU-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.			
			119.800	25.76	3,086.05
997.0151N1	m	ALBARDILLA H.PREFABRICADO BLANCO a=45 cm			
		ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.			
			70.400	36.52	2,571.01
997.0153N1	ud	ARQUETA LADRILLO DE PASO 51x51x65 cm			
		ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.			
			5.000	53.81	269.05
997.0154N1	ud	CALDERETA PLUVIAL EXTENSIBLE			
		CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.			
			4.000	26.82	107.28
997.0155N1	m	BAJANTE DE PVC PLUVIALES			
		BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16.000	10.87	173.92
997.0156N1	m²	CUBIERTA NO TRANSITABLE			
		CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.			
			200.000	30.16	6,032.00
		TOTAL ELEMENTO 04.2.2.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			18,276.19
		ELEMENTO 04.2.2.1.3 REVESTIMIENTOS Y FALSOS TECHOS			
997.0157N1	m²	ENFOSCADO MAESTRADO			
		ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.			
			416.020	11.98	4,983.92
997.0152N1	m²	REVESTIMIENTO DE FACHADAS CON MORTERO			
		REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.			
			176.420	21.52	3,796.56

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL ELEMENTO 04.2.2.1.3 REVESTIMIENTOS Y FALSOS TECHOS			8,780.48
	ELEMENTO 04.2.2.1.4 SOLADOS Y ALICATADOS			
997.0158N1	m² PAVIMENTO CONTINUO CUARZO			
	PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.			
		192.760	10.52	2,027.84
997.0159N1	m LOSA DE HORMIGÓN			
	LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.			
		32.850	25.43	835.38
	TOTAL ELEMENTO 04.2.2.1.4 SOLADOS Y ALICATADOS			2,863.22
	ELEMENTO 04.2.2.1.5 CARPINTERIA DE MADERA Y METALICA			
997.0160N1	m² CELOSÍA FIJA LAMAS DE CHAPA			
	CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).			
		20.480	109.08	2,233.96
997.0161N1	m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS			
	PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ÑILERÍA).			
		37.500	128.01	4,800.38
	TOTAL ELEMENTO 04.2.2.1.5 CARPINTERIA DE MADERA Y METALICA			7,034.34
	ELEMENTO 04.2.2.1.6 VIDRIERIA Y PINTURA			
997.0162N1	m² PINTURA AL SILICATO INTERIORES			
	PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.			
		416.020	8.78	3,652.66
	TOTAL ELEMENTO 04.2.2.1.6 VIDRIERIA Y PINTURA			3,652.66
	TOTAL SUBAPARTADO 04.2.2.1 ARQUITECTURA			92,150.55
	SUBAPARTADO 04.2.2.2 INSTALACIONES			
997.0163N1	ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W			
	LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		2.000	158.09	316.18
997.0164N1	ud LUMINARIA EST. C/ TLD-83HF 2x36W			
	LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		12.000	150.42	1,805.04
997.0165N1	ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO			
	INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONE-			

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		XIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			4.000	187.12	748.48
997.0268N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			150.000	8.76	1,314.00
997.0166N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			150.000	1.26	189.00
997.0167N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			350.000	0.96	336.00
997.0007N1	ud	EXTINTOR DE POLVO ABC DE 9 kg			
		EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.			
			4.000	71.33	285.32
997.0008N1	ud	EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg			

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.			
			4.000	88.15	352.60
997.0038N1	ud	PULSADOR ALAMA DE INCENDIOS			
		PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			3.000	44.12	132.36
997.0168N1	ud	DETECTOR ÓPTICO DE HUMOS			
		SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			4.000	95.64	382.56
997.0169N1	ud	SIRENA INTERIOR			
		SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			1.000	33.78	33.78
997.0170N1	m	CABLE DETECCIÓN			
		CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			300.000	11.20	3,360.00
997.0171N1	ud	SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			19.000	2.88	54.72
997.0086N1	ud	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	47.06	188.24
998.0201N1	PA	ACOMETIDA DE LÍNEAS ELÉCTRICAS EN EDIFICIO DE BOCA OESTE DEL TÚNEL PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL EDIFICIO DE LA BOCA OESTE DEL TÚNEL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.			
			1.000	20,000.00	20,000.00
TOTAL SUBAPARTADO 04.2.2.2 INSTALACIONES.....					29,498.28
TOTAL APARTADO 04.2.2 EDIFICIO EQUIPOS BOCA OESTE					121,648.83

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 04.2.3 EDIFICIO EQUIPOS BOCA ESTE			
		SUBAPARTADO 04.2.3.1 ARQUITECTURA			
		ELEMENTO 04.2.3.1.1 CIMENTACIONES Y ESTRUCTURA			
997.0147N1	ud	ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.			
			337.500	74.10	25,008.75
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			69.000	109.05	7,524.45
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			3,000.000	1.81	5,430.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.			
			9.500	56.71	538.75
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			32.820	113.62	3,729.01
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			274.630	33.91	9,312.70
		TOTAL ELEMENTO 04.2.3.1.1 CIMENTACIONES Y ESTRUCTURA			51,543.66
		ELEMENTO 04.2.3.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			
997.0148N1	m²	RECIBIDO DE CERCOS RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.			
			57.980	12.35	716.05
997.0149N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.			
			176.420	30.16	5,320.83
997.0150N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTU-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.			
			119.800	25.76	3,086.05
997.0151N1	m	ALBARDILLA H.PREFABRICADO BLANCO a=45 cm ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.			
			70.400	36.52	2,571.01
997.0153N1	ud	ARQUETA LADRILLO DE PASO 51x51x65 cm ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.			
			5.000	53.81	269.05
997.0154N1	ud	CALDERETA PLUVIAL EXTENSIBLE CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.			
			4.000	26.82	107.28
997.0155N1	m	BAJANTE DE PVC PLUVIALES BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		16.000	10.87	173.92
997.0156N1	m² CUBIERTA NO TRANSITABLE CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.			
		200.000	30.16	6,032.00
	TOTAL ELEMENTO 04.2.3.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			18,276.19
	ELEMENTO 04.2.3.1.3 REVESTIMIENTOS Y FALSOS TECHOS			
997.0157N1	m² ENFOSCADO MAESTRADO ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.			
		416.020	11.98	4,983.92
997.0152N1	m² REVESTIMIENTO DE FACHADAS CON MORTERO REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.			
		176.420	21.52	3,796.56

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL ELEMENTO 04.2.3.1.3 REVESTIMIENTOS Y FALSOS TECHOS			8,780.48
	ELEMENTO 04.2.3.1.4 SOLADOS Y ALICATADOS			
997.0158N1	m² PAVIMENTO CONTINUO CUARZO PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.			
		192.760	10.52	2,027.84
997.0159N1	m LOSA DE HORMIGÓN LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.			
		32.850	25.43	835.38
	TOTAL ELEMENTO 04.2.3.1.4 SOLADOS Y ALICATADOS			2,863.22
	ELEMENTO 04.2.3.1.5 CARPINTERIA DE MADERA Y METALICA			
997.0160N1	m² CELOSÍA FIJA LAMAS DE CHAPA CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).			
		20.480	109.08	2,233.96
997.0161N1	m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ÑILERÍA).			
		37.500	128.01	4,800.38
	TOTAL ELEMENTO 04.2.3.1.5 CARPINTERIA DE MADERA Y METALICA			7,034.34
	ELEMENTO 04.2.3.1.6 VIDRIERIA Y PINTURA			
997.0162N1	m² PINTURA AL SILICATO INTERIORES PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.			
		416.020	8.78	3,652.66
	TOTAL ELEMENTO 04.2.3.1.6 VIDRIERIA Y PINTURA			3,652.66
	TOTAL SUBAPARTADO 04.2.3.1 ARQUITECTURA			92,150.55
	SUBAPARTADO 04.2.3.2 INSTALACIONES			
997.0163N1	ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		2.000	158.09	316.18
997.0164N1	ud LUMINARIA EST. C/ TLD-83HF 2x36W LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		12.000	150.42	1,805.04
997.0165N1	ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONE-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	XIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		4.000	187.12	748.48
997.0268N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm² CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		150.000	8.76	1,314.00
997.0166N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm² CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		150.000	1.26	189.00
997.0167N1	m CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm² CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		350.000	0.96	336.00
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.			
		4.000	71.33	285.32
997.0008N1	ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.			
			4.000	88.15	352.60
997.0038N1	ud	PULSADOR ALAMA DE INCENDIOS			
		PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			3.000	44.12	132.36
997.0168N1	ud	DETECTOR ÓPTICO DE HUMOS			
		SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			4.000	95.64	382.56
997.0169N1	ud	SIRENA INTERIOR			
		SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			1.000	33.78	33.78
997.0170N1	m	CABLE DETECCIÓN			
		CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			300.000	11.20	3,360.00
997.0171N1	ud	SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE			
		SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			19.000	2.88	54.72
997.0086N1	ud	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA			
		CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			4.000	47.06	188.24
998.0301N1	PA	ACOMETIDA DE LÍNEAS ELÉCTRICAS EN EDIFICIO DE BOCA ESTE DEL TÚNEL			
		PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL EDIFICIO DE LA BOCA ESTE DEL TÚNEL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. PASO AÉREO SUBTERRÁNEO A.T. CON IZADO DE CABLE SUBTERRÁNEO EN APOYO, PROTECCIÓN CON TUBO PLÁSTICO HASTA 3 METROS Y CONEXIÓN CON RED AÉREA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.			
			1.000	45,000.00	45,000.00

TOTAL SUBAPARTADO 04.2.3.2 INSTALACIONES.....	54,498.28
TOTAL APARTADO 04.2.3 EDIFICIO EQUIPOS BOCA ESTE.....	146,648.83

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 04.2.4 CENTRO DE CONTROL			
		SUBAPARTADO 04.2.4.1 ARQUITECTURA			
		ELEMENTO 04.2.4.1.1 CIMENTACIONES Y ESTRUCTURA			
997.0147N1	ud	ARQUETA LADRI.PIE/BAJANTE 38 x 38 x 50 cm ARQUETA A PIE DE BAJANTE REGISTRABLE, DE 38X38X50 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO MACIZO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, CON CODO DE PVC DE 45º, PARA EVITAR EL GOLPE DE BAJADA EN LA SOLERA, Y CON TAPA DE HORMIGÓN ARMADO PREFABRICADA, TERMINADA Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.	337.500	74.10	25,008.75
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	140.000	109.05	15,267.00
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	7,200.000	1.81	13,032.00
610.0010N1	m³	HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN HORMIGÓN NO ESTRUCTURAL HNE-15 PARA RELLENOS Y CAPAS DE NIVELACIÓN.	9.500	56.71	538.75
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			32.820	113.62	3,729.01
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	600.000	33.91	20,346.00
		TOTAL ELEMENTO 04.2.4.1.1 CIMENTACIONES Y ESTRUCTURA			77,921.51
		ELEMENTO 04.2.4.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			
997.0148N1	m²	RECIBIDO DE CERCOS RECIBIDO Y APLOMADO DE CERCOS EN MUROS EXTERIORES, CON MORTERO DE CEMENTO CEM II/A-P 32,5R Y ARENA DE RÍO 1/4.	189.710	12.35	2,342.92
997.0149N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 20 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X20 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-150, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-150 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTURAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.	358.400	30.16	10,809.34
997.0150N1	m²	FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN 40 x 20 x 10 FÁBRICA DE BLOQUES HUECOS DE HORMIGÓN GRIS ESTÁNDAR DE 40X20X10 CM. PARA REVESTIR, RECIBIDOS CON MORTERO DE CEMENTO CEM II/B-M 32,5 N Y ARENA DE RÍO M-7,5, CON ARMADURA VERTICAL PREFABRICADA FORMADA POR COSTILLAS ALLWALL DE ACERO GALVANIZADO AW-RIB.5/Z-80, DISPUESTAS CADA 5,60 M.; Y ARMADURA DE ACERO GALVANIZADO EN CALIENTE, EN FORMA DE CERCHA Y RECUBRIMIENTO DE ZINC, MURFOR RND.4/Z-50 CADA 2 HILADAS, SEGÚN EC6; I/P.P. DE DINTELES, JAMBAS, FORMACIÓN DE ENCUENTROS, PIEZAS ESPECIALES, ROTU-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RAS, REPLANTEO, NIVELACIÓN, APLOMADO, REJUNTADO, LIMPIEZA Y MEDIOS AUXILIARES, S/NTE-FFB-6, MEDIDA DEDUCIENDO HUECOS SUPERIORES A 1 M2.			
			249.600	25.76	6,429.70
997.0151N1	m	ALBARDILLA H.PREFABRICADO BLANCO a=45 cm			
		ALBARDILLA DE HORMIGÓN PREFABRICADO EN BLANCO EN PIEZAS DE 45 CM. DE ANCHO Y 50 CM. DE LARGO CON GOTERÓN, RECIBIDA CON MORTERO DE CEMENTO CEM II/B-P 32,5 N Y ARENA DE RÍO M-5, I/REJUNTADO CON LECHADA DE CEMENTO BLANCO BL-V 22,5 Y LIMPIEZA, MEDIDA EN SU LONGITUD.			
			122.800	36.52	4,484.66
997.0153N1	ud	ARQUETA LADRILLO DE PASO 51x51x65 cm			
		ARQUETA ENTERRADA NO REGISTRABLE, DE 51X51X65 CM. DE MEDIDAS INTERIORES, CONSTRUIDA CON FÁBRICA DE LADRILLO PERFORADO TOSCO DE 1/2 PIE DE ESPESOR, RECIBIDO CON MORTERO DE CEMENTO M-5, COLOCADO SOBRE SOLERA DE HORMIGÓN EN MASA HM-20/P/40/I, ENFOSCADA Y BRUÑIDA POR EL INTERIOR CON MORTERO DE CEMENTO M-15, Y CERRADA SUPERIORMENTE CON UN TABLERO DE RASILLONES MACHIHEMBRADOS Y LOSA DE HORMIGÓN HM-20/P/20/I LIGERAMENTE ARMADA CON MALLAZO, TERMINADA Y SELLADA CON MORTERO DE CEMENTO Y CON P.P. DE MEDIOS AUXILIARES, SIN INCLUIR LA EXCAVACIÓN, NI EL RELLENO PERIMETRAL POSTERIOR.			
			15.000	53.81	807.15
997.0154N1	ud	CALDERETA PLUVIAL EXTENSIBLE			
		CALDERETA PLUVIAL EXTENSIBLE DE PVC PARA RECOGIDA DE AGUAS PLUVIALES, CON SALIDA VERTICAL DE 110 MM. Y CON REJILLA DE PP DE 190X190 MM.; INSTALADA Y CONEXIONADA A LA RED GENERAL DE DESAGÜE, INCLUSO P.P. DE PEQUEÑO MATERIAL DE AGARRE Y MEDIOS AUXILIARES, Y SIN INCLUIR ARQUETA DE APOYO.			
			14.000	26.82	375.48
997.0155N1	m	BAJANTE DE PVC PLUVIALES			
		BAJANTE DE PVC DE PLUVIALES, DE 125 MM. DE DIÁMETRO, CON SISTEMA DE UNIÓN POR JUNTA ELÁSTICA (EN12200), COLOCADA CON ABRAZADERAS METÁLICAS, INSTALADA, INCLUSO CON P.P. DE PIEZAS ESPECIALES DE PVC, FUNCIONANDO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			56.000	10.87	608.72
997.0156N1	m²	CUBIERTA NO TRANSITABLE			
		CUBIERTA NO TRANSITABLE CONSTITUIDA POR: CAPA DE ARCILLA EXPANDIDA ARLITA EN SECO DE ESPESOR MEDIO 10 CM., EN FORMACIÓN DE PENDIENTE, CON MALLAZO DE ACERO 300X300X6 MM., TENDIDO DE MORTERO DE CEMENTO M-5, DE 2 CM. DE ESPESOR; IMPRIMACIÓN ASFÁLTICA CURIDAN, LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS POLYDAN 40 P (TIPO LBM-40-FP-225) DE POLIÉSTER (FIELTRO NO TEJIDO DE 225 GR/M2), TOTALMENTE ADHERIDA AL SOPORTE; LÁMINA GEOTEXTIL DE 200 G/M2. DANOFELT PY-200 Y EXTENDIDO DE CAPA DE 5 CM. DE GRAVA DE CANTO RODADO O TERRENO NATURAL. SOLUCIÓN SEGÚN MEMBRANA PA-6. NBE QB-90 Y UNE-104-402/96.			
			400.000	30.16	12,064.00
		TOTAL ELEMENTO 04.2.4.1.2 CERRAMIENTOS, DIVISIONES Y CUBIERTA			37,921.97
		ELEMENTO 04.2.4.1.3 REVESTIMIENTOS Y FALSOS TECHOS			
997.0157N1	m²	ENFOSCADO MAESTRADO			
		ENFOSCADO MAESTREADO Y FRATASADO CON MORTERO DE CEMENTO CEM II/A-P 32,5 R Y ARENA DE RÍO 1/4 (M-80) EN PARAMENTOS VERTICALES Y HORIZONTALES DE 20 MM. DE ESPESOR, I/REGLEADO, SACADO DE ARISTAS Y RINCONES CON MAESTRAS CADA 3 M. Y ANDAMIAJE, S/NTE-RPE-7, MEDIDO DEDUCIENDO HUECOS.			
			857.600	11.98	10,274.05
997.0152N1	m²	REVESTIMIENTO DE FACHADAS CON MORTERO			
		REVESTIMIENTO DE FACHADAS CON MORTERO MONOCAPA COTEGRAN NG DE TEXSA MORTEROS O SIMILAR, ESPESOR APROXIMADO ENTRE 10 Y 15 MM., IMPERMEABLE AL AGUA DE LLUVIA, COMPUESTO POR CEMENTO PORTLAND, ADITIVOS Y CARGAS MINERALES. APLICADO SOBRE SOPORTES DE FÁBRICA DE TERMOARCILLA. CON ACABADO TEXTURA SUPERFICIAL RASPADO FINO SIMILAR A LA PIEDRA ABUJARDADA, EN COLOR A DETERMINAR POR LA DIRECCIÓN FACULTATIVA, INCLUYENDO PARTE PROPORCIONAL DE COLOCACIÓN DE MALLA MORTERO EN LOS ENCUENTROS DE SOPORTES DE DISTINTA NATURALEZA, I/P.P. DE MEDIOS AUXILIARES, S/NTE-RPR-6 E ISO 9001.			
			358.400	21.52	7,712.77

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL ELEMENTO 04.2.4.1.3 REVESTIMIENTOS Y FALSOS TECHOS			17,986.82
	ELEMENTO 04.2.4.1.4 SOLADOS Y ALICATADOS			
997.0158N1	m² PAVIMENTO CONTINUO CUARZO			
	PAVIMENTO CONTINUO CUARZO GRIS SOBRE SOLERA DE HORMIGÓN, SIN INCLUIR ÉSTOS, CON ACABADO MONOLÍTICO INCORPORANDO 3 KG. DE CUARZO Y 1,5 KG. DE CEMENTO CEM II/A-P 32,5 R, I/REPLANTEO DE SOLERA, ENCOFRADO Y DESENCOFRADO, COLOCACIÓN DEL HORMIGÓN, REGLEADO Y NIVELADO DE SOLERA, FRATASADO MECÁNICO, INCORPORACIÓN CAPA DE RODADURA, ALISADO Y PULIMENTADO, CURADO DEL HORMIGÓN, ASERRADO DE JUNTAS Y SELLADO CON MASILLA DE POLIURETANO DE ELASTICIDAD PERMANENTE, TIPO SIKAFLEX O SIMILAR, S/NTE-RSC, MEDIDO EN SUPERFICIE REALMENTE EJECUTADA.			
		390.400	10.52	4,107.01
997.0159N1	m LOSA DE HORMIGÓN			
	LOSA DE HORMIGÓN PREFABRICADO GRIS EN PIEZAS DE 50 CM. DE ANCHO Y 50 CM. DE LARGO MACHIEMBRADAS, COLOCADAS SOBRE ANGULAR DE ACERO PARA TAPAR CONDUCTOS DE INSTALACIONES.			
		32.850	25.43	835.38
	TOTAL ELEMENTO 04.2.4.1.4 SOLADOS Y ALICATADOS			4,942.39
	ELEMENTO 04.2.4.1.5 CARPINTERIA DE MADERA Y METALICA			
997.0160N1	m² CELOSÍA FIJA LAMAS DE CHAPA			
	CELOSÍA FIJA DE LAMAS FIJAS DE ACERO GALVANIZADO, CON PLEGADURA SENCILLA EN LOS BORDES, INCLUSO SOPORTES DEL MISMO MATERIAL, PATILLAS PARA ANCLAJE A LOS PARAMENTOS, ELABORADA EN TALLER Y MONTAJE EN OBRA (SIN INCLUIR RECIBIDO DE ALBAÑILERÍA).			
		43.520	109.08	4,747.16
997.0161N1	m² PUERTA ABATIBLE CHAPA PLEGADA 2 HOJAS			
	PUERTA ABATIBLE DE DOS HOJAS DE CHAPA DE ACERO GALVANIZADA Y PLEGADA DE 0,80 MM.CONTINUA O EN REJILLA , REALIZADA CON CERCO Y BASTIDOR DE PERFILES DE ACERO GALVANIZADO, SOLDADOS ENTRE SÍ, GARRAS PARA RECIBIDO A OBRA, APERTURA MANUAL, JUEGO DE HERRAJES DE COLGAR CON PASADORES DE FIJACIÓN SUPERIOR E INFERIOR PARA UNA DE LAS HOJAS, CERRADURA Y TIRADOR A DOS CARAS, ELABORADA EN TALLER, AJUSTE Y FIJACIÓN EN OBRA, ACABADO CON CAPA DE PINTURA EPOXI POLIMERIZADA AL HORNO (SIN INCLUIR RECIBIDO DE ALBA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ÑILERÍA).			
		37.500	128.01	4,800.38
	TOTAL ELEMENTO 04.2.4.1.5 CARPINTERIA DE MADERA Y METALICA			9,547.54
	ELEMENTO 04.2.4.1.6 VIDRIERIA Y PINTURA			
997.0162N1	m² PINTURA AL SILICATO INTERIORES			
	PINTURA AL SILICATO TIPO RESTAIL, CON DOS MANOS, SOBRE PARAMENTOS INTERIORES DE CEMENTO, HORMIGÓN O ENFOSCADOS, PREVIA IMPRIMACIÓN, CON PRIMER AL SILICATO TIPO RESTASIL PRIMER.			
		857.600	8.78	7,529.73
	TOTAL ELEMENTO 04.2.4.1.6 VIDRIERIA Y PINTURA			7,529.73
	TOTAL SUBAPARTADO 04.2.4.1 ARQUITECTURA			155,849.96
	SUBAPARTADO 04.2.4.2 INSTALACIONES			
997.0163N1	ud LUMINARIA EMERGENCIA PERMANENTE CON SEÑALIZACIÓN 24 W			
	LUMINARIA DE EMERGENCIA CON SEÑALIZACIÓN DE ENCENDIDO PERMANENTE 24W TC-L 2G11 1 HORA DE AUTONOMIA. TOTALMENTE INSTALADA, INCLUSO LÁMPARA, PARTE PROPORCIONAL DE PEQUEÑO MATERIAL, MONTAJE Y CONEXIONADO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		40.000	158.09	6,323.60
997.0164N1	ud LUMINARIA EST. C/ TLD-83HF 2x36W			
	LUMINARIA ESTANCA CON DOS TUBOS FLUORESCENTES . HF DE 36 W., INCLUSO BALASTO ELECTRÓNICO DE ALTA FRECUENCIA, CON PRECALDEO, TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
		70.000	150.42	10,529.40
997.0165N1	ud INTERRUPTOR ESTANCO BAJO ACERO ENCHUFADO			
	INTERRUPTOR ESTANCO INSTALADO CON CABLE DE COBRE AISLAMIENTO 0,6/1 KV FORMADO POR DOS CONDUCTORES DE SECCIÓN NOMINAL 1,5MM², AISLADOS CON TUBO DE ACERO ENCHUFABLE Ø25, GRAPADO SOBRE HORMIGÓN, INSTALADO EN CAJA ESTANCA IP54, CON TAPA, CAJA DE DERIVACIÓN EN SUP., ESTANCA, ELEMENTOS DE CONE-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		XIÓN Y ELEMENTOS DE FIJACIÓN DEL TUBO; CONSTRUIDO SEGÚN R.B.T., TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			20.000	187.12	3,742.40
997.0268N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 10 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X10 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			350.000	8.76	3,066.00
997.0166N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 4 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X4 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			350.000	1.26	441.00
997.0167N1	m	CABLE DE COBRE DE 0.6/1 KV 1 x 2,5 mm²			
		CABLE DE COBRE DE 0.6/1 KV DE 1X2.5 MM2 DEL TIPO AFUMEX O SIMILAR NO PROPAGADOR DE LA LLAMA, CERO HALÓGENOS, INSTALADO INCLUSO PEQUEÑO MATERIAL DE CONEXION E INSTALACION Y PARTE PORPORCIONAL DE EMPALMES, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			800.000	0.96	768.00
997.0007N1	ud	EXTINTOR DE POLVO ABC DE 9 kg			
		EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.			
			16.000	71.33	1,141.28
997.0008N1	ud	EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.			
			10.000	88.15	881.50
997.0038N1	ud	PULSADOR ALAMA DE INCENDIOS			
		PULSADOR DE ALARMA PARA SISTEMA ALGORÍTMICO INTERACTIVO, CONECTADO AL BUS BIFILAR DE DETECCIÓN ELECTRÓNICA CONTROLADA POR MICROPROCESADOR. FUNCIÓN DE DESCONEXIÓN DE LA LÍNEA, EN CASO DE CORTOCIRCUITO EN EL BUS DE DETECCIÓN. LED PARA INDICAR EL ESTADO DE ACTIVACIÓN. DIRECCIONAMIENTO INDIVIDUAL, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			10.000	44.12	441.20
997.0168N1	ud	DETECTOR ÓPTICO DE HUMOS			
		SENSOR DETECTOR DE HUMOS, PARA SISTEMA ALGORÍTMICO INTERACTIVO. SENSOR OPTOELECTRÓNICO CON ANÁLISIS DINÁMICO DE LA SEÑAL DE "HUMO" EN EL PROPIO DETECTOR. PROGRAMACIÓN DESDE LA CENTRAL Y ALGORÍTMO DE DIAGNÓSTICO CON AUTOCOMPROBACIÓN AUTOMÁTICA. INMUNIDAD COMPLETA A FALSAS ALARMAS E INFLUENCIAS AMBIENTALES. COMPENSACIÓN AUTOMÁTICA DE LA SUCIEDAD. TOTALMENTE INSTALADO Y PUESTO EN MARCHA, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			14.000	95.64	1,338.96
997.0169N1	ud	SIRENA INTERIOR			
		SIRENA ELECTRÓNICA DE ALARMA, CON DOS TONALIDADES.TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			3.000	33.78	101.34
997.0170N1	m	CABLE DETECCIÓN			
		CABLE MANGUERA FLEXIBLE DE 2 X 1,5 MM. AISLAMIENTO 750 V. A INSTALAR BAJO TUBO. TUBO NO INCLUÍDO. TOTALMENTE INSTALADO, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			700.000	11.20	7,840.00
997.0171N1	ud	SEÑAL PVC 297 x 297 mm FOTOLUMINISCENTE SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 297 X 297 MM, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP			
			70.000	2.88	201.60
997.0086N1	ud	CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA CONTACTO MAGNÉTICO PARA DETECCIÓN DE APERTURA DE PUERTA, PROTEGIDO CONTRA SABOTAJE, POR CONTACTO DE CUBIERTA Y RESISTENCIA TERMINAL, INCLUSO PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
			6.000	47.06	282.36
998.0101N1	PA	ACOMETIDA DE LÍNEAS ELÉCTRICAS EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS ELÉCTRICAS EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO DE APOYO METÁLICO DE CELOSÍA PARA LÍNEA DE A.T., FUSTE, SEMICRUCETAS HORIZONTALES ATIRANTADAS AL TRESBOLILLO, AISLAMIENTO CON CADENAS, PUESTA A TIERRA Y DEMÁS ELEMENTOS AUXILIARES, CON EXCAVACIÓN Y CIMENTACIÓN, INSTALADO. TENDIDO DE CABLE DE ALUMINIO ACERO TIPO LA-180 SIMPLE CIRCUITO TRIFÁSICO + CABLE DE TIERRA. PASO AÉREO SUBTERRÁNEO A.T. CON IZADO DE CABLE SUBTERRÁNEO EN APOYO, PROTECCIÓN CON TUBO PLÁSTICO HASTA 3 METROS Y CONEXIÓN CON RED AÉREA. SE INCLUYE TAMBIÉN LOS COSTES DE TRAMITACIÓN Y SUPERVISIÓN DEL SERVICIO ELÉCTRICO.			
			1.000	55,000.00	55,000.00
998.0102N1	PA	ACOMETIDA DE LÍNEAS TELEFÓNICAS EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE LAS LÍNEAS TELEFÓNICAS EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE APOYO DE HORMIGÓN VIBRADO, EXCAVACIÓN Y HORMIGONADO DE ZAPATA, TOTALMENTE TERMINADO. SUMINISTRO E INSTALACIÓN DE CABLE DE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RED DE DISTRIBUCIÓN DE TELEFONÍA Y PARTE PROPORCIONAL DE ACCESORIOS			
			1.000	12,000.00	12,000.00
998.0103N1	PA	ACOMETIDA DE ABASTACIMIENTO EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE ABASTECIMIENTO EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE TUBERÍA SOBRE CAMA DE ARENA, EXCAVACION, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			1.000	25,000.00	25,000.00
998.0104N1	PA	ACOMETIDA DE SANEAMIENTO EN CENTRO DE CONTROL PARTIDA ALZADA PARA LA ACOMETIDA DE SANEAMIENTO EN EL CENTRO DE CONTROL. INCLUYE SUMINISTRO Y COLOCACIÓN DE TUBERÍA SOBRE CAMA DE ARENA, EXCAVACION, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			1.000	19,000.00	19,000.00
		TOTAL SUBAPARTADO 04.2.4.2 INSTALACIONES.....			148,098.64
		TOTAL APARTADO 04.2.4 CENTRO DE CONTROL.....			303,948.60

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	APARTADO 04.2.5 MANUAL DE EXPLOTACIÓN			
997.0172N1	PA.IAMANUAL DE EXPLOTACIÓN PA DE ABONO INTEGRO DE REDACCIÓN DEL MANUAL DE EXPLOTACIÓN DEL TÚNEL CON EL ALCANCE DESCRITO EN PPTP	1.000	81,000.00	81,000.00
	TOTAL APARTADO 04.2.5 MANUAL DE EXPLOTACIÓN			81,000.00
	TOTAL SUBCAPÍTULO 04.2 INSTALACIONES			8,655,188.31
	SUBCAPÍTULO 04.3 PLAN DE EMERGENCIA			
997.0173N1	ud GRUPO ELECTRÓGENO 450 KVA GRUPO ELECTRÓGENO DE EMERGENCIA DE ARRANQUE AUTOMÁTICO 450 KVA, 400 V, 50 HZ, 1.500 R.P.M., CON CUADRO DE CONMUTACIÓN AUTOMÁTICA, DEPÓSITOS DE COMBUSTIBLE PROPIO PARA 8 HORAS DE FUNCIONAMIENTO CONTINUO A PLENA CARGA, INCLUIDO TRANSPORTE, INSTALACIÓN Y PUESTA EN SERVICIO.	2.000	46,088.98	92,177.96
997.0174N1	ud INSTALACIÓN DE ALUMBRADO DE EMERGENCIA INSTALACIÓN DE ALUMBRADO DE EMERGENCIA CON LUMINARIAS FLUORESCENTES DOBLES DE 36 W CADA 20 M, CON UNO DE LOS TUBOS FLUORESCENTES CON AUTONOMÍA DE 1 HORA	2,400.000	79.63	191,112.00
997.0175N1	ud GENÓFONO SUMINISTRO Y MONTAJE DE GENÓFONO CON PINZA DE CONEXIÓN MÓVIL. TOTALMENTE INSTALADO.	4.000	4,173.38	16,693.52
997.0176N1	ud RED DE BIE's SUMINISTRO Y MONTAJE DE UNA RED DE BIE'S DURANTE LA CONSTRUCCIÓN DE TÚNEL, DOTADO DE DEPÓSITO DE ACERO DE 40 M3 DE AGUA, GRUPO DE PROTECCIÓN CONTRA INCENDIOS Y BOCAS DE INCENDIOS EQUIPADAS, INCLUSO LAS TUBERÍAS Y ELEMENTOS DE ANCLAJE. TOTALMENTE INSTALADO	2.000	57,589.98	115,179.96

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
997.0007N1	ud EXTINTOR DE POLVO ABC DE 9 kg EXTINTOR DE POLVO QUÍMICO ABC POLIVALENTE ANTIBRASA, DE EFICACIA 34A/183B, DE 9 KG DE AGENTE EXTINTOR, CON SOPORTE, MANÓMETRO COPROBABLE Y MANGUERA CON DIFUSOR, SEGÚN NORMA UNE, CERTIFICADO AENOR. MEDIDA LA UNIDAD INSTALADA.	50.000	71.33	3,566.50
997.0008N1	ud EXTINTOR DE NIEVE CARBÓNICA CO2 DE 5 kg EXTINTOR DE NIEVE CARBÓNICA CO2, DE EFICACIA 89B, CON 5 KG DE AGENTE EXTINTOR, CONSTRUIDO EN ACERO, CON SOPORTE Y BOQUILLA CON DIFUSOR, SEGÚN NORMA EN-3:1996. MEDIDA LA UNIDAD INSTALADA. S/R.D. 486/97.	10.000	88.15	881.50
997.0004N1	ud SEÑAL PVC FOTOLUMINISCENTE 300 x 210 mm SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO, EN PVC RÍGIDO DE 1 MM. FOTOLUMINISCENTE, DE DIMENSIONES 300 X 210 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	2.000	11.37	22.74
997.0003N1	ud SEÑAL FOTOLUMINISCENTE 700 x 500 mm SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 700 X 500 MM, I/ PEQUEÑO MATERIAL TOTALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.	205.000	43.51	8,919.55
997.0003N2	ud SEÑAL FOTOLUMINISCENTE 1500 x 1500 mm SEÑALIZACIÓN DE EQUIPOS CONTRA INCENDIOS FOTOLUMINISCENTE, DE RIESGO DIVERSO, ADVERTENCIA DE PELIGRO, PROHIBICIÓN, EVACUACIÓN Y SALVAMENTO SEGÚN PLANOS, EN MATERIAL TIPO FOREX O SIMILAR Y ATORNILLADA A LOS PARAMENTOS MEDIANTE 4 TORNILLOS DE ACERO INOXIDABLE, SEGÚN PLIEGO DE CONDICIONES, DE DIMENSIONES 1500 X 1500 MM, I/ PEQUEÑO MATERIAL TO-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TALMENTE, INSTALADO, PROBADO Y FUNCIONANDO. SEGÚN PPTP.			
		32.000	86.58	2,770.56
997.0177N1	ud SISTEMA DE AIRE COMPRIMIDO SUMINISTRO Y MONTAJE DE SISTEMA DE AIRE COMPRIMIDO COMPUESTO POR COMPRESORES EXENTOS DE ACEITE, CON UNA PRESIÓN DE TRABAJO DE 6 BARG Y UN CAUDAL DE 25.9 M3/MIN, 1 DEPÓSITO DE 6000 LITROS Y TUBERÍA DE ACERO GALVANIZADO DN-80. TOTALMENTE INSTALADO Y PUESTO EN SERVICIO			
		2.000	182,563.98	365,127.96
997.0178N1	ud TRAJE IGNÍFUGO SUMINISTRO DE TRAJE IGNÍFUGO PARA EQUIPO DE SEGUNDA INTERVENCIÓN, INCLUSO CASCO, BOTAS Y GUANTES APTOS Y HOMOLOGADOS PARA UN EQUIPO DE SEGUNDA INTERVENCIÓN SEGÚN NORMA 531.			
		60.000	45.63	2,737.80
997.0179N1	ud EQUIPO DE RESPIRACIÓN AUTÓNOMA SUMINISTRO DE EQUIPO DE RESPIRACIÓN AUTÓNOMA, INCLUYENDO MÁSCARA, REGULADOR, TUBOS, MANÓMETROS, BOTELLA DE 6 LITROS A 300 BAR Y ANCLAJES.			
		60.000	1,225.69	73,541.40
997.0180N1	ud ARMARIO PARA PUESTO INCENDIOS 1200 x 400 x 1600 ARMARIO PARA PUESTO DE INCENDIOS FABRICADO CON PERFILES HUECOS DE ACERO Y CHAPA DE ACERO GALVANIZADA DE 1 MM.DE ESPESOR, MEDIDAS EXTERIORES DE 1200 MM.DE LONGITUD, 400 MMDE ANCHO Y 1600 MM.DE ALTURA, CON DOS PUERTAS FRONTALES DE REJILLA METÁLICA DOTADAS DE CIERRE INDEPENDIENTE DE FACIL APERTURA (SIN LLAVE), SEGÚN DETALLE EN PLANOS, ANCLADO AL SUELO CON TACOS Y TORNILLOS METÁLICOS, INCLUSO MANOS DE PINTURA, ESMALTE ANTICORROSIVO HAMMERITE, TERMINADO E INSTALADO.			
		12.000	499.73	5,996.76

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL SUBCAPÍTULO 04.3 PLAN DE EMERGENCIA.....			878,728.21
	TOTAL CAPÍTULO 04 TÚNEL DE EIROAS.....			65,110,856.97

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 05 ESTRUCTURAS			
		SUBCAPÍTULO 05.1 PÉRGOLA 1.8			
		APARTADO 05.1.1 HASTIALES			
		SUBAPARTADO 05.1.1.1 HASTIAL 1			
		ELEMENTO 05.1.1.1.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	7,253.910	6.70	48,601.20
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	6,122.170	3.47	21,243.93
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	230.430	28.44	6,553.43
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.	54.810	66.48	3,643.77

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	584.970	109.05	63,790.98
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.	769.370	2.32	1,784.94
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	91,935.170	1.81	166,402.66
		TOTAL ELEMENTO 05.1.1.1.1 CIMENTACIÓN.....			312,020.91
		ELEMENTO 05.1.1.1.2 ALZADO			
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	54,223.120	1.81	98,143.85
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	416.150	113.62	47,282.96
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			544.040	28.44	15,472.50
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			517.040	33.91	17,532.83
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			451.770	10.55	4,766.17
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			517.040	2.32	1,199.53
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			81.590	16.21	1,322.57
691.0010N1	m	JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			25.310	12.54	317.39
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			5.900	66.48	392.23
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			17.700	109.05	1,930.19
		TOTAL ELEMENTO 05.1.1.1.2 ALZADO			188,360.22
		TOTAL SUBAPARTADO 05.1.1.1 HASTIAL 1			500,381.13
		SUBAPARTADO 05.1.1.2 HASTIAL 2			
		ELEMENTO 05.1.1.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			6,843.950	6.70	45,854.47
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			5,851.930	3.47	20,306.20
680.0010	m²	ENCOFRADO OCULTO PLANO			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			213.780	28.44	6,079.90
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			47.490	66.48	3,157.14
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			506.740	109.05	55,260.00
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			674.450	2.32	1,564.72
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			83,482.950	1.81	151,104.14
		TOTAL ELEMENTO 05.1.1.2.1 CIMENTACIÓN.....			283,326.57
		ELEMENTO 05.1.1.2.2 ALZADO			
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			398.470	113.62	45,274.16
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			507.490	28.44	14,433.02
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			496.920	33.91	16,850.56
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			496.920	2.32	1,152.85
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm			
		TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			70.970	16.21	1,150.42
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS			
		LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			440.150	10.55	4,643.58

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			51,256.870	1.81	92,774.93
691.0010N1	m	JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO			
		JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.			
			27.770	12.54	348.24
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			2.300	66.48	152.90
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			6.900	109.05	752.45
		TOTAL ELEMENTO 05.1.1.2.2 ALZADO			177,533.11
		TOTAL SUBAPARTADO 05.1.1.2 HASTIAL 2.....			460,859.68

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 05.1.1.3 ALETAS			
		ELEMENTO 05.1.1.3.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			3,582.290	6.70	24,001.34
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACION Y REFINO DE TALUDES (EN SU CASO).			
			2,836.070	3.47	9,841.16
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			42.950	66.48	2,855.32
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			460.560	109.05	50,224.07
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			359.740	28.44	10,231.01
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			756.500	2.32	1,755.08
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			42,586.660	1.81	77,081.85
		TOTAL ELEMENTO 05.1.1.3.1 CIMENTACION			175,989.83

ELEMENTO 05.1.1.3.2 ALZADO

680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			410.810	28.44	11,683.44
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			360.710	33.91	12,231.68
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			274.290	113.62	31,164.83
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			364.210	2.32	844.97
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			94.220	16.21	1,527.31
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			286.100	10.55	3,018.36
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			16,667.560	1.81	30,168.28
691.0010N1	m	JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.			
			89.890	12.54	1,127.22
		TOTAL ELEMENTO 05.1.1.3.2 ALZADO			91,766.09

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL SUBAPARTADO 05.1.1.3 ALETAS			267,755.92
	TOTAL APARTADO 05.1.1 HASTIALES			1,228,996.73
	APARTADO 05.1.2 PILAS			
	SUBAPARTADO 05.1.2.1 CIMENTACIÓN			
321.0010	m³ EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	1,345.900	6.70	9,017.53
332.0040	m³ RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	934.650	3.47	3,243.24
680.0010	m² ENCOFRADO OCULTO PLANO			
	ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	310.520	28.44	8,831.19
610.0010	m³ HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.	33.140	66.48	2,203.15
610.0060	m³ HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	371.000	109.05	40,457.55
690.0070	m² IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
	PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.	602.550	2.32	1,397.92
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	51,526.360	1.81	93,262.71
	TOTAL SUBAPARTADO 05.1.2.1 CIMENTACIÓN			158,413.29
	SUBAPARTADO 05.1.2.2 ALZADO			
680.0030	m² ENCOFRADO VISTO PLANO			
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	305.350	33.91	10,354.42
610.0130	m³ HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
	HORMIGÓN C40/50 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	62.860	121.35	7,628.06
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			23,293.070	1.81	42,160.46
		TOTAL SUBAPARTADO 05.1.2.2 ALZADO			60,142.94
		TOTAL APARTADO 05.1.2 PILAS.....			218,556.23
		APARTADO 05.1.3 LOSA SUPERIOR			
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			231.980	28.44	6,597.51
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			3,116.500	33.91	105,680.52
680.0040	m²	ENCOFRADO VISTO CURVO			
		ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			46.350	44.95	2,083.43
682.0010	m³	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO			
		ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.			
			597.110	79.18	47,279.17
610.0150	m³	HORMIGÓN PARA PRETENSAR C40/50			
		HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,562.610	142.72	365,735.70
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			380,071.070	1.81	687,928.64
601.0010	kg	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL			
		ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.			
			73,536.080	4.91	361,062.15
681.0010	m³	CIMBRA CUAJADA			
		CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			16,882.110	12.21	206,130.56
691.0010N1	m	JUNTA ELÁSTICA ENTRE MÓDULOS DE HORMIGONADO			
		JUNTA DE ESTANQUEIDAD, ELÁSTICA, IMPERMEABILIZANTE, PUESTA EN OBRA ENTRE MÓDULOS DE HORMIGONADO, I/ PLANCHA DE POLIESTIRENO EXPANDIDO, OBTURADOR DE POLIETILENO, INCLUSO SELLADO CON MÁSTIC, COLOCADA.			
			40.750	12.54	511.01
620.0041N1	kg	ACERO TIPO 1030S INOX			
		ACERO TIPO 1030S INOX. INCLUSO P.P. DE VAINAS, ANCLAJE, TESADO E INYECCIÓN DE MORTERO, TOTALMENTE EJECUTADO			
			639.770	16.96	10,850.50
		TOTAL APARTADO 05.1.3 LOSA SUPERIOR			1,793,859.19

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 05.1.4 ACABADOS			
411.0010N1	ud	SUMIDERO EN TABLERO DE PUENTES SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.			
			10.000	92.55	925.50
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).			
			63.510	231.61	14,709.55
704.0190N1	m	PANTALLA OPACA DE 4 m PARA PROTECCIÓN DE AVES PANTALLA OPACA DE 4 M PARA PROTECCIÓN DE AVES, COMPUESTA POR PERFIL HEB-160 DE ACERO TIPO S 275 JR (NORMA UNE-EN 10025-1:2006) Y DOS PERFILES LPN 70.7 DEL MISMO MATERIAL DE LAS HEB CON TRATAMIENTO ANTICORROSIÓN, DISPUESTOS COMO EN PLANOS I/ PASAMANOS Y P.P. DE TORNILLERÍA Y PLACA DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO Y PINTADO			
			136.110	354.35	48,230.58
695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M			
			1.000	3,533.06	3,533.06
695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	3,324.72	3,324.72
690.0010N1	m2	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.			
			2,248.130	11.01	24,751.91
617.0031N1	m	BARRERA DE SEGURIDAD DE HORM PREF TIPO DB 80 AS BARRERA DE SEGURIDAD DE HORMIGÓN PREFABRICADO, TIPO DB 80 AS (NEW JERSEY), INCLUYENDO SUMINISTRO, TRANSPORTE Y COLOCACIÓN, TOTALMENTE TERMINADA.			
			58.900	66.85	3,937.47
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			4,096.420	6.70	27,446.01
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1,913.780	3.47	6,640.82
332.0011N1	m3	RELLENO LOCALIZADO EN CUÑAS DE TRANSICIÓN RELLENO ESPECIAL EN CUÑA DE TRANSICIÓN I/ CARGA Y TRANSPORTE DE MATERIAL			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,272.830	11.82	26,864.85
332.0010	m3	RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN RELLENO LOCALIZADO TRATADO CON CEMENTO EN CUÑAS DE TRANSICIÓN.			
			2,283.750	17.48	39,919.95
		TOTAL APARTADO 05.1.4 ACABADOS.....			200,284.42
		TOTAL SUBCAPÍTULO 05.1 PÉRGOLA 1.8.....			3,441,696.57
		SUBCAPÍTULO 05.2 PASOS SUPERIORES			
		APARTADO 05.2.1 PASO SUPERIOR 2.1			
		SUBAPARTADO 05.2.1.1 ESTRIBOS			
		ELEMENTO 05.2.1.1.1 ESTRIBO E-1			
		SUBELEMENTO 05.2.1.1.1.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			448.130	6.70	3,002.47
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			5.210	66.48	346.36
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			29.200	28.44	830.45
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			5,622.440	1.81	10,176.62
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			52.080	99.75	5,194.98
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			379.500	3.47	1,316.87
		TOTAL SUBELEMENTO 05.2.1.1.1.1 CIMENTACIÓN.....			20,867.75
		SUBELEMENTO 05.2.1.1.1.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			176.490	33.91	5,984.78
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			204.490	28.44	5,815.70
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.600	66.48	239.33
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			9,021.640	1.81	16,329.17
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			116.880	113.62	13,279.91
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.600	8.62	5.17
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			176.490	2.32	409.46
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			16.800	16.21	272.33
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			176.490	10.55	1,861.97
658.0020	m³	ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			26.210	43.22	1,132.80

TOTAL SUBELEMENTO 05.2.1.1.1.2 ALZADO..... 45,330.62

TOTAL ELEMENTO 05.2.1.1.1 ESTRIBO E-1..... 66,198.37

ELEMENTO 05.2.1.1.2 ESTRIBO E-2

SUBELEMENTO 05.2.1.1.2.1 CIMENTACIÓN

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			390.820	6.70	2,618.49
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			3.020	66.48	200.77
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			25.600	28.44	728.06
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			36.960	99.75	3,686.76
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			4,821.550	1.81	8,727.01
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			318.410	3.47	1,104.88
		TOTAL SUBELEMENTO 05.2.1.1.2.1 CIMENTACIÓN.....			17,065.97
		SUBELEMENTO 05.2.1.1.2.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			147.590	33.91	5,004.78
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			130.400	28.44	3,708.58
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.600	66.48	239.33
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			113.100	113.62	12,850.42
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			8,242.110	1.81	14,918.22
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.600	8.62	5.17

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			130.400	2.32	302.53
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm			
		TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			12.400	16.21	201.00
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS			
		LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			130.400	10.55	1,375.72
658.0020	m³	ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL			
		ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			25.900	43.22	1,119.40
		TOTAL SUBELEMENTO 05.2.1.1.2.2 ALZADO			39,725.15
		TOTAL ELEMENTO 05.2.1.1.2 ESTRIBO E-2			56,791.12
		TOTAL SUBAPARTADO 05.2.1.1 ESTRIBOS			122,989.49

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 05.2.1.2 PILA			
		ELEMENTO 05.2.1.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			51.480	6.70	344.92
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			1.750	66.48	116.34
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			17.000	28.44	483.48
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			17.500	99.75	1,745.63
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,653.710	1.81	4,803.22
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			37.800	3.47	131.17
		TOTAL ELEMENTO 05.2.1.2.1 CIMENTACIÓN.....			7,624.76
		ELEMENTO 05.2.1.2.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			30.840	33.91	1,045.78
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			11.340	44.95	509.73
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			16.960	113.62	1,927.00
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		BRE RECOCIDO Y SEPARADORES.			
			2,372.130	1.81	4,293.56
		TOTAL ELEMENTO 05.2.1.2.2 ALZADO.....			7,776.07
		TOTAL SUBAPARTADO 05.2.1.2 PILA.....			15,400.83
		SUBAPARTADO 05.2.1.3 TABLERO			
692.0100	dm³	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.			
			69.300	28.77	1,993.76
614.0030	m	VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 cm VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.			
			40.000	1,464.81	58,592.40
682.0010	m³	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.			
			0.160	79.18	12.67
630.3010	m²	PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 cm DE ESPESOR PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.			
			328.000	85.92	28,181.76
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			9,724.000	1.81	17,600.44
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			82.000	113.62	9,316.84
		TOTAL SUBAPARTADO 05.2.1.3 TABLERO			115,697.87
		SUBAPARTADO 05.2.1.4 ACABADOS			
690.0010N1	m2	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.			
			328.000	11.01	3,611.28
411.0013N1	m	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS			
			114.000	64.40	7,341.60
411.0010N1	ud	SUMIDERO EN TABLERO DE PUENTES SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.			
			3.000	92.55	277.65
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).			
			114.000	231.61	26,403.54
694.0050	m	JUNTA DE DILATACIÓN PARA TABLERO DE 160 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.			
			16.400	710.25	11,648.10
695.0070	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 m , EXCEPTO EN EL PRIMER VANO REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO			
			1.000	695.17	695.17
695.0010	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE ISOSTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS			
			1.000	1,819.35	1,819.35
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			280.000	2.68	750.40
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			1.750	59.86	104.76
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60 BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.460	773.80	1,129.75
		TOTAL SUBAPARTADO 05.2.1.4 ACABADOS.....			53,781.60
		TOTAL APARTADO 05.2.1 PASO SUPERIOR 2.1			307,869.79
		APARTADO 05.2.2 PASO SUPERIOR 3.4			
		SUBAPARTADO 05.2.2.1 ESTRIBOS			
		ELEMENTO 05.2.2.1.1 ESTRIBO E-1			
		SUBELEMENTO 05.3.2.1.1.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	1,811.870	6.70	12,139.53
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.	10.370	66.48	689.40
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	76.480	28.44	2,175.09
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	11,560.450	1.81	20,924.41
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.	103.710	99.75	10,345.07
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).	2,257.660	3.47	7,834.08
		TOTAL SUBELEMENTO 05.3.2.1.1.1 CIMENTACIÓN.....			54,107.58
		SUBELEMENTO 05.3.2.1.1.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	186.370	33.91	6,319.81
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.	214.370	28.44	6,096.68
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4.500	66.48	299.16
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			10,149.430	1.81	18,370.47
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			131.190	113.62	14,905.81
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIAMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.600	8.62	5.17
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			186.370	2.32	432.38
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			26.640	16.21	431.83
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			186.370	10.55	1,966.20
658.0020	m³	ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			134.770	43.22	5,824.76
		TOTAL SUBELEMENTO 05.3.2.1.1.2 ALZADO			54,652.27
		TOTAL ELEMENTO 05.2.2.1.1 ESTRIBO E-1			108,759.85
		ELEMENTO 05.2.2.1.2 ESTRIBO E-2			
		SUBELEMENTO 05.3.2.1.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			261.830	6.70	1,754.26
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			2.860	66.48	190.13
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			23.600	28.44	671.18
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			28.560	99.75	2,848.86
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,780.280	1.81	5,032.31
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			206.050	3.47	714.99
		TOTAL SUBELEMENTO 05.3.2.1.2.1 CIMENTACIÓN.....			11,211.73
		SUBELEMENTO 05.3.2.1.2.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			70.560	33.91	2,392.69
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			58.820	28.44	1,672.84
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			2.860	66.48	190.13
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			61.190	113.62	6,952.41
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			4,492.470	1.81	8,131.37
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.600	8.62	5.17
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			58.820	2.32	136.46
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			10.000	16.21	162.10
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			58.820	10.55	620.55
658.0020	m³	ESCOLLERA DE 400/800 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 400/800 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			106.030	43.22	4,582.62

TOTAL SUBELEMENTO 05.3.2.1.2.2 ALZADO 24,846.34

TOTAL ELEMENTO 05.2.2.1.2 ESTRIBO E-2 ..... 36,058.07

TOTAL SUBAPARTADO 05.2.2.1 ESTRIBOS 144,817.92

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 05.2.2.2 PILA			
		ELEMENTO 05.2.2.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			757.950	6.70	5,078.27
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			10.360	66.48	688.73
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			109.500	28.44	3,114.18
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			155.260	99.75	15,487.19
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			19,993.320	1.81	36,187.91
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			526.550	3.47	1,827.13
		TOTAL ELEMENTO 05.2.2.2.1 CIMENTACIÓN.....			62,383.41
		ELEMENTO 05.2.2.2.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			299.580	33.91	10,158.76
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			34.020	44.95	1,529.20
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			119.900	113.62	13,623.04
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		BRE RECOCIDO Y SEPARADORES.			
			27,589.860	1.81	49,937.65
		TOTAL ELEMENTO 05.2.2.2.2 ALZADO.....			75,248.65
		TOTAL SUBAPARTADO 05.2.2.2 PILA.....			137,632.06
		SUBAPARTADO 05.2.2.3 TABLERO			
692.0100	dm³	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.			
			211.680	28.77	6,090.03
614.0030	m	VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 cm VIGA PREFABRICADA PRETENSADA TIPO ARTESA DE H=120 CM I/ TRANSPORTE, COLOCACIÓN Y TODOS LOS MATERIALES Y MEDIOS NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA.			
			74.000	1,464.81	108,395.94
682.0010	m³	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.			
			0.490	79.18	38.80
630.3010	m²	PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 cm DE ESPESOR PRELOSA PREFABRICADA DE HORMIGÓN CON CELOSÍA DE HASTA 8 CM DE ESPESOR, COMPLETAMENTE EJECUTADA I/ SUMINISTRO, TRANSPORTE Y COLOCACIÓN.			
			606.800	85.92	52,136.26
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			17,263.950	1.81	31,247.75
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			151.700	113.62	17,236.15
		TOTAL SUBAPARTADO 05.2.2.3 TABLERO			215,144.93
		SUBAPARTADO 05.2.2.4 ACABADOS			
690.0010N1	m2	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.			
			606.800	11.01	6,680.87
411.0013N1	m	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS			
			184.000	64.40	11,849.60
411.0010N1	ud	SUMIDERO EN TABLERO DE PUENTES SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.			
			5.000	92.55	462.75
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).			
			184.000	231.61	42,616.24
694.0050	m	JUNTA DE DILATACIÓN PARA TABLERO DE 160 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		JUNTA DE DILATACIÓN PARA TABLERO DE 160 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.			
			16.400	710.25	11,648.10
695.0070	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 m , EXCEPTO EN EL PRIMER VANO REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE ISOSTÁTICO DE VARIOS VANOS POR CADA VANO DE LUZ > 20 M , EXCEPTO EN EL PRIMER VANO			
			1.000	695.17	695.17
695.0010	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE ISOSTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES ISOSTÁTICOS			
			1.000	1,819.35	1,819.35
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			518.000	2.68	1,388.24
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			3.240	59.86	193.95
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60 BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.700	773.80	2,089.26
		TOTAL SUBAPARTADO 05.2.2.4 ACABADOS.....			79,443.53
		TOTAL APARTADO 05.2.2 PASO SUPERIOR 3.4			577,038.44
		APARTADO 05.2.3 PASO SUPERIOR 4.8			
		SUBAPARTADO 05.2.3.1 ESTRIBOS			
		ELEMENTO 05.2.3.1.1 ESTRIBO E-1			
		SUBELEMENTO 05.2.3.1.1.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			433.980	6.70	2,907.67
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			5.750	66.48	382.26
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			30.100	28.44	856.04
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			56.170	99.75	5,602.96
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			5,703.060	1.81	10,322.54
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			377.810	3.47	1,311.00
		TOTAL SUBELEMENTO 05.2.3.1.1.1 CIMENTACIÓN.....			21,382.47
		SUBELEMENTO 05.2.3.1.1.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			191.030	33.91	6,477.83
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			192.900	28.44	5,486.08
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			126.710	113.62	14,396.79
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			4.000	66.48	265.92
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			12,463.560	1.81	22,559.04
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.800	8.62	6.90
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			190.500	2.32	441.96
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			9.000	16.21	145.89
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			190.500	10.55	2,009.78
		TOTAL SUBELEMENTO 05.2.3.1.1.2 ALZADO			51,790.19
		TOTAL ELEMENTO 05.2.3.1.1 ESTRIBO E-1			73,172.66
		ELEMENTO 05.2.3.1.2 ESTRIBO E-2			
		SUBELEMENTO 05.2.3.1.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			281.700	6.70	1,887.39
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			6.340	66.48	421.48
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			31.900	28.44	907.24
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			63.420	99.75	6,326.15
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			5,721.750	1.81	10,356.37
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			218.280	3.47	757.43
		TOTAL SUBELEMENTO 05.2.3.1.2.1 CIMENTACIÓN.....			20,656.06
		SUBELEMENTO 05.2.3.1.2.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			195.370	33.91	6,625.00
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			207.640	28.44	5,905.28
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			122.330	113.62	13,899.13
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			4.000	66.48	265.92
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			12,961.770	1.81	23,460.80
417.0010	m	TUBO DE PVC DE DIÁMETRO 50 mm TUBO DE PVC DE DIÁMETRO 50MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			0.800	8.62	6.90
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			205.240	2.32	476.16
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			9.000	16.21	145.89
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			205.240	10.55	2,165.28
		TOTAL SUBELEMENTO 05.2.3.1.2.2 ALZADO			52,950.36
		TOTAL ELEMENTO 05.2.3.1.2 ESTRIBO E-2			73,606.42
		TOTAL SUBAPARTADO 05.2.3.1 ESTRIBOS			146,779.08
		SUBAPARTADO 05.2.3.2 PILAS			
		ELEMENTO 05.2.3.2.1 PILA 1			
		SUBELEMENTO 05.2.3.2.1.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			101.200	6.70	678.04
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.720	66.48	247.31
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			28.800	28.44	819.07
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			43.200	99.75	4,309.20
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			4,097.000	1.81	7,415.57
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			101.200	3.47	351.16
		TOTAL SUBELEMENTO 05.2.3.2.1.1 CIMENTACIÓN			13,820.35
		SUBELEMENTO 05.2.3.2.1.2 ALZADO			
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			40.360	44.95	1,814.18
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			15.170	113.62	1,723.62
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,994.260	1.81	3,609.61
		TOTAL SUBELEMENTO 05.2.3.2.1.2 ALZADO.....			7,147.41
		TOTAL ELEMENTO 05.2.3.2.1 PILA 1.....			20,967.76
		ELEMENTO 05.2.3.2.2 PILA 2			
		SUBELEMENTO 05.2.3.2.2.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			279.550	6.70	1,872.99
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.720	66.48	247.31
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			28.800	28.44	819.07
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			43.200	99.75	4,309.20
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			4,097.230	1.81	7,415.99
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			279.550	3.47	970.04
		TOTAL SUBELEMENTO 05.2.3.2.2.1 CIMENTACIÓN.....			15,634.60
		SUBELEMENTO 05.2.3.2.2.2 ALZADO			
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			60.150	44.95	2,703.74
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			22.550	113.62	2,562.13

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			2,862.660	1.81	5,181.41
		TOTAL SUBELEMENTO 05.2.3.2.2.2 ALZADO.....			10,447.28
		TOTAL ELEMENTO 05.2.3.2.2 PILA 2.....			26,081.88
		ELEMENTO 05.2.3.2.3 PILA 3			
		SUBELEMENTO 05.2.3.2.3.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			134.750	6.70	902.83
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			3.720	66.48	247.31
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			28.800	28.44	819.07
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS,			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			43.200	99.75	4,309.20
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			4,097.230	1.81	7,415.99
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			134.750	3.47	467.58
		TOTAL SUBELEMENTO 05.2.3.2.3.1 CIMENTACIÓN.....			14,161.98
		SUBELEMENTO 05.2.3.2.3.2 ALZADO			
680.0040	m²	ENCOFRADO VISTO CURVO			
		ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			46.390	44.95	2,085.23
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			17.430	113.62	1,980.40
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
		2,252.580	1.81	4,077.17
	TOTAL SUBELEMENTO 05.2.3.2.3.2 ALZADO			8,142.80
	TOTAL ELEMENTO 05.2.3.2.3 PILA 3			22,304.78
	TOTAL SUBAPARTADO 05.2.3.2 PILAS			69,354.42
	SUBAPARTADO 05.2.3.3 TABLERO			
680.0030	m² ENCOFRADO VISTO PLANO			
	ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
		1,124.880	33.91	38,144.68
682.0010	m³ ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO			
	ALIGERAMIENTO DE POLIESTIRENO EXPANDIDO.			
		100.600	79.18	7,965.51
600.0010	kg ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
		105,336.360	1.81	190,658.81
610.0150	m³ HORMIGÓN PARA PRETENSAR C40/50			
	HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.			
		565.470	142.72	80,703.88
601.0010	kg ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL			
	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETEN-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.			
		21,038.750	4.91	103,300.26
692.0100	dm³ APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE			
	APARATO DE APOYO DE NEOPRENO ZUNCHADO (STANDARD, ANCLADO O GOFRADO) SUSTITUIBLE, TOTALMENTE COLOCADO I/ NIVELACIÓN DEL APOYO CON MORTERO ESPECIAL DE ALTA RESISTENCIA Y AUTONIVELANTE.			
		226.570	28.77	6,518.42
	TOTAL SUBAPARTADO 05.2.3.3 TABLERO			427,291.56
	SUBAPARTADO 05.2.3.4 ACABADOS			
690.0010N1	m2 IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO			
	IMPERMEABILIZACIÓN DE LOSAS Y TABLEROS DE ESTRUCTURAS, CON MEZCLA EN CALIENTE DE MASTIC-BETÚN-CAUCHO APLICADO A LLANA CON UN ESPESOR DE 3 MM I/ LIMPIEZA MEDIANTE CHORREADO LIGERO DE LA SUPERFICIE DE HORMIGÓN Y CAPA DE IMPRIMACIÓN AL AGUA.			
		951.200	11.01	10,472.71
694.0010	m JUNTA DE DILATACIÓN PARA TABLERO DE 50 mm DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR			
	JUNTA DE DILATACIÓN PARA TABLERO DE 50 MM DE MOVIMIENTO MÁXIMO, TIPO JNA O SIMILAR, TOTALMENTE COLOCADA I/ P.P. DE OPERACIONES DE CORTE Y DEMOLICIÓN, PERFORACIONES, RESINA EPOXI, PERNOS, ANCLAJES QUÍMICOS Y SELLADORES.			
		16.400	286.32	4,695.65
681.0010	m³ CIMBRA CUAJADA			
	CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			7,499.310	12.21	91,566.58
411.0013N1	m	IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS IMPOSTA PREFABRICADA EN VIADUCTOS FERROVIARIOS			
			265.800	64.40	17,117.52
411.0010N1	ud	SUMIDERO EN TABLERO DE PUENTES SUMIDERO PARA DESAGÜE EN TABLERO, TOTALMENTE TERMINADO.			
			5.000	92.55	462.75
695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M			
			1.000	3,533.06	3,533.06
695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS			
			1.000	3,324.72	3,324.72
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).			
			270.410	231.61	62,629.66
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			812.000	2.68	2,176.16
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			5.070	59.86	303.49
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60 BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			
			4.230	773.80	3,273.17
		TOTAL SUBAPARTADO 05.2.3.4 ACABADOS			199,555.47
		TOTAL APARTADO 05.2.3 PASO SUPERIOR 4.8			842,980.53
		TOTAL SUBCAPÍTULO 05.2 PASOS SUPERIORES			1,727,888.76
		SUBCAPÍTULO 05.3 MUROS			
		APARTADO 05.3.1 MURO 3.3 M.D			
803.0441N1	m³	HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES HORMIGÓN PROYECTADO H/MP/30 CON CUALQUIER ESPESOR EN TALUDES I/ ADITIVOS NECESARIOS.			
			45.690	209.05	9,551.49
675.1250	ud	PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B PARTE FIJA DEL ANCLAJE TIPO 1, 2A, 2B, 5, 6A Y 6B, I/ ELIMINACIÓN DE LONGITUD DEL TIRANTE SOBRANTE, CABEZA DE ANCLAJE Y TESADO CON ENSAYO DE ACEPTACIÓN, SELLADO, IMPERMEABILIZACIÓN Y CUALQUIER OPERACIÓN NECESARIA PARA LA PUESTA EN SERVICIO.			
			52.000	106.00	5,512.00
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			271.290	28.44	7,715.49
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			262.110	109.05	28,583.10
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			31,805.700	1.81	57,568.32
671.0030	m	PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.			
			610.520	55.49	33,877.75
675.1121N2	m	ANCLAJE PERMANENTE CON INYECCIÓN REPETITIVA Y SELECTIVA (IRS) TI ANCLAJE TIPO 4B (3 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).			
			135.000	81.10	10,948.50
675.1120N1	m	ANCLAJE PERMANENTE CON INYECCIÓN REPETITIVA Y SELECTIVA (IRS) TI ANCLAJE TIPO 4B (4 CABLES), PROBADO Y ACEPTADO I/ EMPLAZAMIENTOS, PERFORACIÓN, SUMINISTRO Y COLOCACIÓN DEL TIRANTE, INYECCIÓN Y MATERIAL AUXILIAR (CENTRADORES, SEPARADORES, TUBOS, ETC).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			553.000	178.50	98,710.50
680.1000	ud	EQUIPO Y MEDIOS AUXILIARES PILOTES HASTA 1200 mm TRANSPORTE, MONTAJE Y RETIRADA DEL EQUIPO Y MEDIOS AUXILIARES PARA EJECUCIÓN DE PILOTES DE DIÁMETRO HASTA 1200 MM.			
			1.000	8,000.00	8,000.00
308.0151N1	ud	ENSAYO SÓNICO EN PILOTES ENSAYO SÓNICO EN PILOTES			
			153.000	81.36	12,448.08
803.0303N1	m²	MALLA ELECTROSOLDADA EN TALUDES DE DIÁMETRO Ø 10 mm EN CUADRÍCULA 10 X 10 MALLA ELECTROSOLDADA EN PROTECCIÓN DE TALUDES CON ACERO CORRUGADO B 500 T DE Ø 10 MM EN CUADRÍCULA 10 X 10, COLOCADO EN OBRA I/ P.P. DE ALAMBRE DE ATAR, SEGÚN EHE-08 Y CTE-SE-A.			
			247.764	13.89	3,441.44
417.0031N1	m	TUBO DE PVC DE DIÁMETRO 100 mm TUBO DE PVC DE DIÁMETRO 100MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.			
			482.500	11.36	5,481.20
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			380.750	6.74	2,566.26

TOTAL APARTADO 05.3.1 MURO 3.3 M.D 284,404.13

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 05.3.2 MURO C 0.1 M.I			
		SUBAPARTADO 05.3.2.2 BARRERA			
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.	68.490	113.62	7,781.83
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.	9,931.050	1.81	17,975.20
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).	114.150	231.61	26,438.28
		TOTAL SUBAPARTADO 05.3.2.2 BARRERA.....			52,195.31

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 05.3.2.1 ALZADO			
630.0020	m²	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN DE 6 m A 12 m DE ALTURA MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.	581.730	221.65	128,940.45
		TOTAL SUBAPARTADO 05.3.2.1 ALZADO			128,940.45
		TOTAL APARTADO 05.3.2 MURO C 0.1 M.I			181,135.76
		APARTADO 05.3.3 MURO C 0.2 M.D			
		SUBAPARTADO 05.3.3.2 ALZADO			
630.0020	m²	MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN DE 6 m A 12 m DE ALTURA MURO DE ESCAMAS PREFABRICADAS DE HORMIGÓN Y ARMADURAS DE ACERO GALVANIZADO O SINTÉTICAS 6 M < H <= 12 M I/ HORMIGÓN DE REGLAJE, JUNTAS, FLEJES, P.P. DE RELLENO DE SUELO REFORZADO Y CIMENTACIÓN.	291.230	221.65	64,551.13
		TOTAL SUBAPARTADO 05.3.3.2 ALZADO			64,551.13
		SUBAPARTADO 05.3.3.1 BARRERA			
617.0700	m	PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, ÍNDICE DE SEVERIDAD B PRETIL METÁLICO GALVANIZADO Y TERMOLACADO CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE PRETIL (INCLUIR EN PPTP).	75.930	231.61	17,586.15
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			6,606.200	1.81	11,957.22
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			45.560	113.62	5,176.53
		TOTAL SUBAPARTADO 05.3.3.1 BARRERA.....			34,719.90
		TOTAL APARTADO 05.3.3 MURO C 0.2 M.D.....			99,271.03
		APARTADO 05.3.4 MURO R 0.2			
		SUBAPARTADO 05.3.4.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			16.500	6.70	110.55
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			2.390	66.48	158.89
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			11.450	28.44	325.64
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			636.520	1.81	1,152.10
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			5.980	99.75	596.51
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			16.500	3.47	57.26
		TOTAL SUBAPARTADO 05.3.4.1 CIMENTACIÓN			2,400.95
		SUBAPARTADO 05.3.4.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			16.850	33.91	571.38
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			16.850	28.44	479.21
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			425.800	1.81	770.70
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			4.210	113.62	478.34
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			16.850	2.32	39.09
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm			
		TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			22.000	16.21	356.62
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS			
		LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			16.850	10.55	177.77
		TOTAL SUBAPARTADO 05.3.4.2 ALZADO			2,873.11
		TOTAL APARTADO 05.3.4 MURO R 0.2			5,274.06

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 05.3.5 MURO R 0.3			
		SUBAPARTADO 05.3.5.1 CIMENTACIÓN			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			425.000	6.70	2,847.50
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			27.690	66.48	1,840.83
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			100.880	28.44	2,869.03
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			14,768.750	1.81	26,731.44
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			221.540	99.75	22,098.62
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			425.000	3.47	1,474.75
		TOTAL SUBAPARTADO 05.3.5.1 CIMENTACIÓN			57,862.17
		SUBAPARTADO 05.3.5.2 ALZADO			
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			177.100	33.91	6,005.46
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			177.100	28.44	5,036.72
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			9,508.230	1.81	17,209.90
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			58.550	113.62	6,652.45
690.0070	m²	IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIONICA AL 50% DE BETÚN, C50 BF5 IMP			
		PINTADO DE IMPERMEABILIZACIÓN DE PARAMENTO CON EMULSIÓN BITUMINOSA CATIÓNICA AL 50% DE BETÚN, C50 BF5 IMP.			
			117.100	2.32	271.67
424.0020	m	TUBO DE PVC RANURADO DE DIÁMETRO 160 mm			
		TUBO DE PVC DE DIÁMETRO 160 RANURADO SOBRE CAMA DE ARENA DE 10CM DE ESPESOR REVESTIDO CON GEOTEXTIL Y RELLENO CON GRAVA FILTRANTE HASTA 25CM POR ENCIMA DEL TUBO Y CIERRE DE DOBLE SOLAPA DEL PAQUETE FILTRANTE REALIZADO CON EL PROPIO GEOTEXTIL CON P.P. DE MEDIOS AUXILIARES COLOCADO. EXCLUIDO EXCAVACIÓN EN ZANJA.			
			58.300	16.21	945.04
411.0014N1	m²	LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS			
		LÁMINA DRENANTE FIJADA EN TRASDÓS DE MUROS Y ESTRIBOS FORMADO POR LÁMINA DRENANTE DE GEOTEXTIL Y NÚCLEO DRENANTE INTERMEDIO			
			117.300	10.55	1,237.52
		TOTAL SUBAPARTADO 05.3.5.2 ALZADO			37,358.76
		TOTAL APARTADO 05.3.5 MURO R 0.3			95,220.93
		TOTAL SUBCAPÍTULO 05.3 MUROS.....			665,305.91
		TOTAL CAPÍTULO 05 ESTRUCTURAS.....			5,834,891.24

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 06 SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS			
		SUBCAPÍTULO 06.1 SEÑALIZACIÓN HORIZONTAL			
700.0020	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	11,888.480	0.71	8,440.82
700.0035N1	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 30 cm MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	1,631.000	1.23	2,006.13
700.0035N2	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 40 cm MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).	1.160	1.57	1.82
700.0145N1	m²	MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.	322.370	12.90	4,158.57
		TOTAL SUBCAPÍTULO 06.1 SEÑALIZACIÓN HORIZONTAL.....			14,607.34

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBCAPÍTULO 06.2 SEÑALIZACIÓN VERTICAL			
701.0050	ud	SEÑAL CIRCULAR DE 120 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL CIRCULAR DE 120 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	12.000	350.00	4,200.00
701.0080	ud	SEÑAL CIRCULAR DE 90 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	8.000	217.32	1,738.56
701.0110	ud	SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 cm Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL OCTOGONAL CON DOBLE APOTEMA DE 90 CM, RETRORREFLACTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	3.000	230.31	690.93
701.0010	ud	SEÑAL TRIANGULAR DE 175 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL TRIANGULAR DE 175 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.	8.000	373.79	2,990.32
701.0040	ud	SEÑAL TRIANGULAR DE 135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4.000	234.67	938.68
701.0120	ud	SEÑAL CUADRADA DE 120 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL CUADRADA DE 120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			7.000	427.53	2,992.71
701.0180	ud	SEÑAL RECTANGULAR DE 90X135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			16.000	388.02	6,208.32
701.0200	ud	SEÑAL RECTANGULAR DE 60X120 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL RECTANGULAR DE 60X120 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			6.000	282.13	1,692.78
701.0200N2	ud	SEÑAL RECTANGULAR DE 40X95 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3 SEÑAL RECTANGULAR DE 40 X 95 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTES GALVANIZADOS, FIJADOS A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			10.000	166.37	1,663.70
701.0220	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA3 CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		A LUGAR DE EMPLEO.			
			2.730	419.64	1,145.62
701.0230	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA2 CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA2, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			3.660	396.51	1,451.23
701.0260	m²	PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA3 PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA3 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.			
			119.080	421.23	50,160.07
701.0270	m²	PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA2 PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.			
			46.190	398.01	18,384.08
701.0280	m²	PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO CLASE RA3, EN PÓRTICOS O BANDEROLAS PANEL EN LAMAS DE ALUMINIO EXTRUSIONADO RETRORREFLECTANTE DE CLASE RA3, COLOCADO EN PÓRTICOS O BANDEROLAS I/ TRANSPORTE A LUGAR DE EMPLEO (SIN INCLUIR PÓRTICO O BANDEROLA).			
			173.760	293.47	50,993.35
701.0310	ud	BANDEROLA ACERO GALVANIZADO, DE HASTA 7,00 m DE BRAZO Y HASTA 30 m² DE CARTELERÍA (NO INCLUIDA) BANDEROLA DE ACERO GALVANIZADO DE HASTA 7,00 M DE BRAZO Y/O HASTA 30 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADA (SIN INCLUIR CARTEL).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.000	14,979.62	29,959.24
701.0340	ud	PÓRTICO ACERO GALVANIZADO, LUZ HASTA 16,00 m Y HASTA 40 m² DE CARTELERÍA (NO INCLUIDA) PÓRTICO DE ACERO GALVANIZADO DE HASTA 16,00 M DE LUZ Y/O HASTA 40 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).			
			1.000	30,250.92	30,250.92
701.0350	ud	PÓRTICO ACERO GALVANIZADO, LUZ HASTA 17,00 m Y HASTA 60 m² DE CARTELERÍA (NO INCLUIDA) PÓRTICO DE ACERO GALVANIZADO DE HASTA 17,00 M DE LUZ Y/O HASTA 60 M² DE CARTEL I/ EXCAVACIÓN, RELLENO, CIMENTACIÓN MEDIANTE HORMIGÓN ARMADO Y ANCLAJES Y TRANSPORTE A LUGAR DE EMPLEO, COMPLETAMENTE COLOCADO (SIN INCLUIR CARTEL).			
			2.000	31,168.09	62,336.18
		TOTAL SUBCAPÍTULO 06.2 SEÑALIZACIÓN VERTICAL			267,796.69
		SUBCAPÍTULO 06.3 BALIZAMIENTO Y DEFENSAS			
702.0020	ud	CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS CAPTAFARO HORIZONTAL CON REFLECTANCIA A DOS CARAS.			
			758.000	7.30	5,533.40
701.0410	ud	HITO KILOMÉTRICO S-570 DE 60X60 cm DE LADO DE CLASE RA3 HITO KILOMÉTRICO S-570 DE 60X60 CM DE LADO, CON MATERIAL RETRORREFLECTANTE DE CLASE RA3 I/ POSTE, TORNILLERÍA Y CIMENTACIÓN, TOTALMENTE COLOCADO.			
			6.000	138.74	832.44
703.0010	ud	BALIZA CILÍNDRICA CH-75 DE CLASE RA2 BALIZA CILÍNDRICA CH-75 CON MATERIAL REFLECTANTE CLASE RA2, TOTALMENTE COLOCADA.			
			18.000	50.05	900.90
703.0020	ud	HITO DE VÉRTICE N-120 RETRORREFLECTANTE DE CLASE RA2 HITO DE VÉRTICE N-120 CON MATERIAL RETRORREFLEC-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TANTE DE CLASE RA2, LASTRADO CON GRAVA O GRAVILLA, TOTALMENTE COLOCADO.			
			2.000	378.37	756.74
703.0050	ud	HITO DE ARISTA DE H-155 CM DE TIPO II DE CLASE RA3 HITO DE ARISTA (DE 155 CM) TIPO II (PARA AUTOPISTA O AUTOVÍA), DE RETRORREFLECTANCIA CLASE RA3, TOTALMENTE COLOCADO, INCLUIDA CIMENTACIÓN.			
			287.000	14.07	4,038.09
703.0080	ud	PANEL DIRECCIONAL DE 160X40 cm, DE CLASE RA2 PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLACTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			32.000	247.11	7,907.52
704.0540	m	BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=1,0 m O INFERIOR, ÍNDICE DE SEVERIDAD A BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			2,560.000	35.91	91,929.60
704.0740	m	BARRERA DE HORMIGÓN PREFABRICADA SIMPLE, CLASE DE CONTENCIÓN ALTA, H2, W1 O INFERIOR, D=0,1 m O INFERIOR, ÍNDICE DE SEVERIDAD B BARRERA DE HORMIGÓN PREFABRICADA CON UNA CARA ACTIVA CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1 O INFERIOR, DEFLEXIÓN DINÁMICA 0,10 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1,389.000	129.30	179,597.70
704.0610	m	BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN ALTA, H1, W4 O INFERIOR, D=1,1 m O INFERIOR, ÍNDICE DE SEVERIDAD A BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,10 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			2,313.000	37.93	87,732.09
704.2630	m	BARRERA DE HORMIGÓN PREFABRICADA DOBLE, CLASE DE CONTENCIÓN ALTA, H1, W4 O INFERIOR, D=0,6 m O INFERIOR, ÍNDICE DE SEVERIDAD B BARRERA DE HORMIGÓN PREFABRICADA CON DOBLE CARA ACTIVA CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,60 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ PARTE PROPORCIONAL PIEZAS ESPECIALES (JUNTAS DE DILATACIÓN, TERMINALES, TRANSICIONES ENTRE SISTEMAS, ETC.), ANCLAJES, PEDESTALES, TACONES EN ÉSTOS PARA EL PASO DEL AGUA A SUMIDEROS Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA EJECUCIÓN DE LA UNIDAD. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			1,091.000	104.22	113,704.02
704.1520	m	BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=0,9 m O INFERIOR, ÍNDICE DE SEVERIDAD A BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			1,484.000	65.02	96,489.68
704.1620	m	BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE CONTENCIÓN ALTA, H1, W4 O INFERIOR, D=1,2 m O INFERIOR, ÍNDICE DE SEVERIDAD B, BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN H1, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,20 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			476.000	87.73	41,759.48
704.3710	m	BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CLASE CONTENCIÓN ALTA, H2, W5 O INFERIOR, D=0,8 m O INFERIOR, ÍNDICE DE SEVERIDAD B BARRERA METÁLICA MÓVIL EN PASO DE MEDIANA, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W5 O INFERIOR, DEFLEXIÓN DINÁMICA 0,80 M O INFERIOR, ÍNDICE DE SEVERIDAD B O INFERIOR I/ ANCLAJES Y TODOS LOS MATERIALES Y OPERACIONES NECESARIOS PARA LA CORRECTA EJECUCIÓN DE LA UNIDAD DE OBRA. NOTA: SE MEDIRÁ EL TERMINAL O LA TRANSICIÓN COMO LONGITUD DE BARRERA MÓVIL DE PASO DE MEDIANA (INCLUIR EN PPTP).			
			100.000	666.99	66,699.00
801.0450	m	BARRERA DE PROTECCIÓN DE AVES BARANDILLA DE PROTECCIÓN DE AVES, DE ACERO CON TRATAMIENTO ANTICORROSIÓN Y PINTADO, COMPUESTA POR PERFILES TUBULARES DE DIÁMETRO 50 MM DE 3 M DE ALTURA, ALTERNADOS CON DOS PERFILES TUBULARES DE 40 MM DE DIÁMETRO Y 1,10 M DE ALTURA DISPUESTOS COMO EN PLANOS I/ P.P. DE CHAPAS Y ELEMENTOS DE ANCLAJE, ASÍ COMO CUALQUIER MATERIAL O MAQUINARIA AUXILIAR NECESARIA PARA SU CORRECTA EJECUCIÓN, TOTALMENTE COLOCADO.			
			57.000	279.84	15,950.88
704.0740N1	m	BARRERA SEGURIDAD DOBLE DE HORMGIÓN EMBEBIENDO POSTE, CLASE CONTENCIÓN ALTA, H2, W3 O INFERIOR, D=0,00 m, ÍNDICE SEVERIDAD B BARRERA DE SEGURIDAD DOBLE DE HORMIGÓN EMBEBIENDO POSTE, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W3 O INFERIOR, DEFLEXIÓN DINÁMICA 0,0 M, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ EL TERMINAL COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		193.000	280.29	54,095.97
	TOTAL SUBCAPÍTULO 06.3 BALIZAMIENTO Y DEFENSAS			767,927.51
	TOTAL CAPÍTULO 06 SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS			1,050,331.54

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 07 ACTUACIONES MEDIOAMBIENTALES			
		SUBCAPÍTULO 07.1 MEDIDAS PREVENTIVAS			
		APARTADO 07.1.1 JALONAMIENTO DE PROTECCIÓN			
801.0030N1	m	JALONAMIENTO TEMPORAL CON SOPORTES ANGULARES METÁLICOS JALONAMIENTO TEMPORAL DE PROTECCIÓN FORMADO POR SOPORTES ANGULARES METÁLICOS DE 30 MM Y 1 M DE LONGITUD UNIDOS ENTRE SI MEDIANTE UNA CINTA DE SEÑALIZACIÓN DE OBRA Y COLOCADOS CADA 8 M.	5,600.000	0.59	3,304.00
		TOTAL APARTADO 07.1.1 JALONAMIENTO DE PROTECCIÓN			3,304.00
		APARTADO 07.1.2 PROTECCIÓN DEL SISTEMA HIDROLÓGICO			
		SUBAPARTADO 07.1.2.1 SISTEMA DE DECANTACIÓN FORMADO POR BALSAS			
320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	264.000	4.25	1,122.00
805.0010N1	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN DE SUPERFICIES LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.	530.000	16.96	8,988.80
801.0701N1	ud	DEPÓSITO PARA FLOCULANTE FABRICADO EN PRFV DEPÓSITO FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, CON UN DIÁMETRO DE 1,50 M Y UNA ALTURA 2,50 M, PROVISTO DE TAPA SUPERIOR PARA EVITAR EL ENSUCIAMIENTO DEL DEPÓSITO Y ASÍ ELIMINAR POSIBLES AVERÍAS EN LA BOMBA DE FLOCULANTE.	1.000	1,968.21	1,968.21

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
801.0702N1	ud	AGITADOR DE FLOCULANTE AGITADOR DE FLOCULANTE DE 1.350 RPM CON MOTOREDUCTOR DE 0,37 KW PARA MEZCLAR EL FLOCULANTE CON EL AGUA DE RED.	1.000	1,918.94	1,918.94
801.0703N1	ud	BOMBA DOSIFICADORA BOMBA DOSIFICADORA DE PISTÓN DE 0,37 KW, PARA UN CAUDAL DE 204 L/H REGULABLE DE 0% A 100% MEDIANTE REGULADOR DE CARRERA DEL PISTÓN. LA BOMBA ESTÁ PROVISTA DE PREFILTRO PARA PROTECCIÓN DE ENSUCIAMIENTO DE LAS ANTIRRETORNO DE LA MISMA.	1.000	1,971.94	1,971.94
801.0704N1	ud	CUADRO DE MANDO CUADRO DE MANDO Y MANIOBRA PARA FUNCIONAMIENTO EN AUTOMÁTICO.	1.000	4,032.77	4,032.77
801.0705N1	ud	ESTRUCTURA METÁLICA PARA DEPÓSITO ESTRUCTURA METÁLICA DE SOPORTE EN ACERO AL CARBONO, PENSADA PARA ALBERGAR TANTO EL DEPÓSITO COMO LA BOMBA DE FLOCULANTE, PH-METRO Y CUADRO ELÉCTRICO.	1.000	1,739.14	1,739.14
801.0706N1	ud	EQUIPO DE CORRECCIÓN DE PH EQUIPO DE CORRECCIÓN DE PH., COMPUESTO POR: PARRILLA DE 6 DIFUSORES DE BURBUJA FINA PARA DOSIFICACIÓN DE GASES, BY-PASS DE ENTRADA COMPUESTO DE 3 VÁLVULAS MANUALES DE ½" DE BOLA EN AISI 316, ELECTROVÁLVULA DE ACCIONAMIENTO DIRECTO COMANDADA DESDE EL ARMARIO ELÉCTRICO. INSTALACIÓN DE TUBERÍA DE ½" HASTA EL TANQUE DE CO2 O PACK DE BOTELLAS, NO INCLUIDO EL MANOREDUCTOR (LE APORTA EL SUMINISTRADOR DE CO2) Y MEDIDOR DE PH PARA MEDIR EN BALSA DE CORRECCIÓN CON SONDA DE INMERSIÓN Y SALIDA ELECTRÓNICA HASTA PLC DE CONTROL, PARA LA OPTIMIZACIÓN DEL PRODUCTO.	1.000	4,907.08	4,907.08
801.0707N1	ud	BOMBEO DESDE DEPARTAMENTO DE AGUAS MEDIANTE BOMBA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUMERGIBLE BOMBEO DESDE DEPARTAMENTO DE AGUAS AJUSTADAS HACIA DEPARTAMENTO DE ENTRADA, CONSTITUIDO POR UNA BOMBA SUMERGIBLE, DE 2,2 KW DE POTENCIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	1.000	3,735.96	3,735.96
801.0708N1	ud	ELECTROVÁLVULA ELECTROVÁLVULA PARA CONTROL DE ENTRADA DE AGUAS DESAJUSTADAS DESDE DEPARTAMENTO DE AJUSTE DE PH HACIA DEPARTAMENTO DE AGUAS DESAJUSTADAS	1.000	393.97	393.97
801.0901N1	ud	EQUIPO DE MEDICIÓN DE TURBIDEZ EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FORMADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASONDAS.	1.000	4,387.69	4,387.69
801.0902N1	ud	CAUDALÍMETRO CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO	1.000	3,834.36	3,834.36
801.0903N1	ud	REGISTRADOR DE DATOS REGISTRADOR DE DATOS, DE 4 CANALES.	1.000	2,023.18	2,023.18
		TOTAL SUBAPARTADO 07.1.2.1 SISTEMA DE DECANTACIÓN FORMADO POR BALSAS			41,024.04

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 07.1.2.2 SISTEMA DE DECANTACIÓN FORMADO POR DEPURADORA			
320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	193.000	4.25	820.25
805.0010N1	m²	LÁMINA DE PVC DE 2 mm EN IMPERMEABILIZACIÓN DE SUPERFICIES LÁMINA DE PVC DE 2 MM EN IMPERMEABILIZACIÓN DE SUPERFICIES I/ SUMINISTRO DE MATERIALES, ELEMENTOS DE SUJECIÓN AL TERRENO, COLOCACIÓN, TERMO-SOLDADURA, PRUEBA DE ESTANQUEIDAD Y DEMÁS OPERACIONES NECESARIAS.	347.500	16.96	5,893.60
801.0801N1	ud	BOMBEO DE CABECERA FORMADO POR BOMBAS SUMERGIBLES BOMBEO CABECERA FORMADO POR DOS BOMBAS SUMERGIBLES PARA BOMBEO DEL AGUA RESIDUAL HACIA LA FASE DE DECANTACIÓN, CON RODETE DE TIPO VORTEX RETRASADO EN HIERRO FUNDIDO, CON UN PASO LIBRE ESFÉRICO DE 50 MM, DE 2,2 KW DE POTENCIA UNITARIA, ACCIONADO MEDIANTE UN SISTEMA DE MEDIDORES DE NIVEL.	1.000	7,488.82	7,488.82
801.0802N1	ud	DEPÓSITO DE PREPARACIÓN DE FLOCULANTES CON AGITADOR EN PRFV DEPÓSITO DE PREPARACIÓN DE FLOCULANTE FABRICADO EN PRFV, CON UNA CAPACIDAD DE 4.000 LITROS, EQUIPADO CON UN AGITADOR PARA LA PERFECTA DILUCIÓN DEL FLOCULANTE, ACCIONADO MEDIANTE UN MOTOR REDUCTOR ACCIONADO POR UN TEMPORIZADOR.	1.000	1,938.63	1,938.63
801.0803N1	ud	EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE EQUIPO DE DOSIFICACIÓN EN TUBERÍA DE FLOCULANTE DESDE DEPÓSITO DE PREPARACIÓN, COMPUESTO POR DOS BOMBAS DOSIFICADORAS DE TIPO PISTÓN, CON REGULACIÓN MANUAL (0-100%) Y MOTOR TRIFÁSICO DE 0,37 KW			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	3,928.00	3,928.00
801.0804N1	ud	DECANTADOR CILÍNDRICO DECANTADOR CILÍNDRICO, FABRICADO EN ACERO AL CARBONO, DE 3,50 METROS DE DIÁMETRO Y 6,00 METROS DE ALTURA, PROVISTO DE CAMPANA INTERIOR DE TRANQUILIZACIÓN DE FANGOS, CONO DE DEYECCIÓN, ALIVIADERO PARA SALIDA DEL VERTIDO. TAMBIÉN SE INCLUYE UNA ESTRUCTURA METÁLICA DE SOPORTE, ESCALERA DE GATO Y BARANDILLA DE SEGURIDAD.	2.000	22,730.89	45,461.78
801.0805N1	ud	DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2 DEPÓSITO PARA AJUSTE DE PH MEDIANTE INYECCIÓN DE CO2, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE SECCIÓN CIRCULAR, DE 3,0 M DE DIÁMETRO Y 4,50 METROS DE ALTURA, CON ESTRUCTURA METÁLICA DE SOPORTE, PROVISTO DE UN SISTEMA DE MEZCLA COMPUESTO POR UNA DRAINEX 200. EL DEPÓSITO UENTA CON UNA PARRILLA DE DIFUSORES INSTALADA EN SU FONDO PARA LA INYECCIÓN DE CO2. TAMBIÉN INCLUYE UN PH-METRO DIGITAL QUE CONTROLA LA APERTURA DE UNA ELECTROVÁLVULA QUE REGULA LA ENTRADA DE CO2 A LOS DIFUSORES. LA INSTALACIÓN QUEDA PREPARADA PARA QUE LA INYECCIÓN DE CO2 PUEDA SER CONECTADA DIRECTAMENTE.	1.000	20,577.44	20,577.44
801.0806N1	ud	AUTOMATIZACIÓN DE EQUIPOS INSTALADOS DE PLANTA AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.	1.000	12,422.14	12,422.14
801.0807N1	ud	MONTAJE MECÁNICO DE PLANTA MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS	1.000	20,699.68	20,699.68

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
801.0808N1	ud	ACONDICIONADOR DE FANGOS			
		ACONDICIONADOR DE FANGOS, FABRICADO EN POLIÉSTER REFORZADO CON FIBRA DE VIDRIO, DE 1,00 M DE DIÁMETRO Y 1,50 METROS DE ALTURA, PROVISTO DE UN SISTEMA DE MEDIDORES DE NIVEL PARA LA AUTOMATIZACIÓN DEL BOMBEO DE ALIMENTACIÓN AL FILTRO PRENSA.			
			1.000	1,354.32	1,354.32
801.0809N1	ud	BOMBA DE FANGOS DE DOBLE MEMBRANA			
		BOMBA DE DOBLE MEMBRANA ACCIONADA POR AIRE PARA ALIMENTAR DE FANGOS AL FILTRO PRENSA, DE 2” CON EL CUERPO EN FUNDICIÓN Y MEMBRANAS EN NEOPRENO.			
			2.000	3,025.94	6,051.88
801.0810N1	ud	SISTEMA DE DESHIDRATACIÓN DE FANGOS			
		SISTEMA DE DESHIDRATACIÓN DE FANGOS, CONSISTENTE EN UN FILTRO PRENSA DE DESCARGA DE TORTA AUTOMÁTICA, DE BAJA PRESIÓN, DE 35 PLACAS Y TELAS FILTRANTES DE 800 X 800 MM., CON UNA CAPACIDAD DE 507 LITROS. INCLUYENDO ESTRUCTURA METÁLICA DE SOPORTE.			
			1.000	59,659.64	59,659.64
801.0811N1	ud	AUTOMATIZACIÓN DE EQUIPOS INSTALADOS EN LINEA DE FANGOS			
		AUTOMATIZACIÓN DE TODOS LOS EQUIPOS INSTALADOS, INCLUYENDO INSTALACIÓN ELÉCTRICA, CUADRO ELÉCTRICO CON APARALLAJE Y AUTÓMATA PROGRAMABLE, PUESTA EN MARCHA Y TODO LO NECESARIO PARA EL FUNCIONAMIENTO AUTOMÁTICO DE LA PLANTA.			
			1.000	6,969.50	6,969.50
801.0812N1	ud	MONTAJE MECÁNICO DE LINEA DE FANGOS			
		MONTAJE MECÁNICO, INCLUYENDO TUBERÍA EN PVC DE PRESIÓN Y LOS ACCESORIOS NECESARIOS PARA LA CORRECTA CONEXIÓN HIDRÁULICA DE TODOS LOS ELEMENTOS PROYECTADOS.			
			1.000	9,920.58	9,920.58
801.0901N1	ud	EQUIPO DE MEDICIÓN DE TURBIDEZ			
		EQUIPO DE MEDICIÓN DE TURBIDEZ EN INMERSIÓN FORMADO POR UN SENSOR ÓPTICO PARA MEDIDA DE TURBIDEZ, Y UN TRANSMISOR DE TURBIDEZ. INCLUYE PORTASON-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DAS.			
			1.000	4,387.69	4,387.69
801.0902N1	ud	CAUDALÍMETRO			
		CAUDALÍMETRO ELECTROMAGNÉTICO EMBRIDADO			
			1.000	3,834.36	3,834.36
801.0903N1	ud	REGISTRADOR DE DATOS			
		REGISTRADOR DE DATOS, DE 4 CANALES.			
			1.000	2,023.18	2,023.18
		TOTAL SUBAPARTADO 07.1.2.2 SISTEMA DE DECANTACIÓN FORMADO POR DEPURADORA..			213,431.49
		TOTAL APARTADO 07.1.2 PROTECCIÓN DEL SISTEMA HIDROLÓGICO.....			254,455.53
		APARTADO 07.1.3 PROTECCIÓN DEL PATRIMONIO ARQUEOLÓGICO			
801.0100N2	ud	SONDEOS ARQUEOLÓGICOS MANUALES E INFORME			
		SONDEOS ARQUEOLÓGICOS MANUALES EN LA TRAZA E INFORME.			
			1.000	4,383.10	4,383.10
801.0613N1	ud	SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO			
		SEÑALIZACIÓN DE ELEMENTOS CULTURALES DEL PATRIMONIO CULTURAL GALLEGO, CONSISTENTE EN SEÑAL, I/ POSTE METÁLICO GALVANIZADO DE SUSTENTACIÓN Y CIMENTACIÓN COLOCADO			
			11.000	186.38	2,050.18
		TOTAL APARTADO 07.1.3 PROTECCIÓN DEL PATRIMONIO ARQUEOLÓGICO.....			6,433.28

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	APARTADO 07.1.4 PROTECCIÓN DE LA FAUNA Y VEGETACIÓN			
801.0540N1	ud PUERTA DE ESCAPE PARA MAMÍFEROS PUERTA DE ESCAPE PARA MAMÍFEROS GRANDES DESDE EL INTERIOR DE LAOBRA VALLADA, MEDIANTE MALLA DE ACERO DE SIMPLE TORSIÓN, CON PERFILES YREFUERZOS DE TUBOS DE ACERO GALVANIZADO, COLOCADA.	5.000	173.20	866.00
801.0550N1	ud SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES SUMINISTRO Y COLOCACIÓN DE RAMPAS DE ESCAPE PARA ANIMALES DESDE EL INTERIOR DE LA OBRA VALLADA, INSTALADA EN VALLA DE CERRAMIENTO.	3.000	161.85	485.55
801.0615N1	m² PROTECTORES DE ESPECIES ARBÓREAS PROTECCIÓN DE ESPECIES ARBÓREAS CERCANAS AL TRAZADO MEDIANTE PERÍMETRO EMPALIZADO DE SEIS TABLONES POR PIE	90.000	71.08	6,397.20
	TOTAL APARTADO 07.1.4 PROTECCIÓN DE LA FAUNA Y VEGETACIÓN			7,748.75
	TOTAL SUBCAPÍTULO 07.1 MEDIDAS PREVENTIVAS.....			271,941.56
	SUBCAPÍTULO 07.2 MEDIDAS CORRECTORAS			
	APARTADO 07.2.1 INTEGRACIÓN PAISAJÍSTICA			
801.0050	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN SUPERFICIES HORIZONTALES ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA, EN SUPERFICIES HORIZONTALES.	7,616.140	1.10	8,377.75
801.0060	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.	6,925.470	1.54	10,665.22
801.0070	m² HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.	41,810.750	1.14	47,664.26
801.0073N1	m² SUMINISTRO Y PROYECCIÓN DE HIDROMULCH SUMINISTRO Y PROYECCIÓN DE HIDROMULCH EN DOSIS DE 175-230 G/M2 COMPUESTO POR MEZCLA HOMOGÉNEA DE FIBRAS VEGETALES DE MADERA LARGA, ESTABILIZANTE, SEMILLAS, FERTILIZANTES Y DEMÁS ADITIVOS.	45,727.300	1.55	70,877.32
801.0230	ud PLANTACIÓN DE THYMUS VULGARIS (TOMILLO) EJECUCIÓN DE PLANTACIÓN THYMUS VULGARIS (TOMILLO) DE 1/2 SAVIAS EN ALVEOLO FORESTAL DE 300 CC, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	399.000	4.31	1,719.69
801.0360N18	ud PLANTACIÓN DE ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 cm EJECUCIÓN DE PLANTACIÓN ROSMARINUS OFFICINALIS (ROMERO) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.	2,569.000	5.84	15,002.96
801.0360N24	ud PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 cm EJECUCIÓN DE PLANTACIÓN PLANTACIÓN DE LAVANDULA ANGUSTIFOLIA (LAVANDA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN CON LAS DIMENSIONES NECESARIAS CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL I/ FORMACIÓN ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO,			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		2,569.000	5.46	14,026.74
801.0360N26 ud	PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 cm EJECUCIÓN DE PLANTACIÓN DE HALIMIUN ALYSSOIDES (JARILLA) DE 10-20 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		399.000	4.00	1,596.00
801.0360N27 ud	PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 cm EJECUCIÓN DE PLANTACIÓN DE ROSA CANINA (ROSA SILVESTRE) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		445.000	3.92	1,744.40
801.0360N34 ud	PLANTACIÓN DE ILEX AQUIFOLIUM (ACEBO) DE 30-40 cm EJECUCIÓN DE PLANTACIÓN ILEX AQUIFOLIUM (ACEBO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		2,388.000	4.65	11,104.20
801.0360N35 ud	PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 cm EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 60-150 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCA-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	VACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		3.000	15.73	47.19
801.0360N36 ud	PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 cm EJECUCIÓN DE PLANTACIÓN DE CYTISUS ALBUS (PIORNO BLANCO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 60 X 60 X 60 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		20.000	5.17	103.40
801.0360N37 ud	PLANTACIÓN DE CONÍFERAS ENANAS (JUNIPERUS, THUYA, PICEA, PINUS, ETC...) DE 20-40 cm EJECUCIÓN DE PLANTACIÓN DE CONIFERAS ENANAS DE LOS GÉNEROS JUNIPERUS, THUYA, PICEA, PINUS, ETC, ..., SEGÚN DISPONIBILIDAD, DE 20-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		26.000	5.32	138.32
801.0360N38 ud	PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 cm EJECUCIÓN DE PLANTACIÓN DE ERICA CINEREA (BREZO) DE 30-40 CM DE ALTURA, EN CONTENEDOR, EXCAVACIÓN DE HOYO DE PLANTACIÓN DE 30 X 30 X 30 CM CON MEDIOS MANUALES Y RELLENO DEL HOYO CON TIERRA DE LA EXCAVACIÓN Y TIERRA VEGETAL INCLUSO FORMACIÓN DE ALCORQUE, COLOCACIÓN DE TUTOR DE CAÑA DE BAMBÚ SI FUERA NECESARIO, ABONO MINERAL Y PRIMER RIEGO DE PLANTACIÓN, SUMINISTRO, TRANSPORTE Y DESCARGA DE LA PLANTA.			
		1,923.000	5.65	10,864.95

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
801.0570N1	m²	ESCARIFICADO DEL TERRENO ESCARIFICADO CON MÁQUINA ESCARIFICADORA A MOTOR, INCLUSO RASTRILLADO DE LOS PRODUCTOS DE LA ESCARIFICACIÓN Y RETIRADA DE SOBRANTES.			
			13,038.910	0.75	9,779.18
		TOTAL APARTADO 07.2.1 INTEGRACIÓN PAISAJÍSTICA.....			203,711.58
		APARTADO 07.2.2 MANTENIMIENTO DE SIEMBRAS Y PLANTACIONES			
801.0380	ud	RIEGO DE ARBUSTOS RIEGO DE ARBUSTOS MEDIANTE CAMIÓN CISTERNA 8000 L I/ CARGA Y TRANSPORTE DESDE PUNTO DE ABASTECIMIENTO HASTA EL LUGAR DE USO.			
			10,832.000	1.86	20,147.52
801.0410N1	ud	APORTE Y EXTENDIDO MANUAL DE ABONO/ARBUSTO APORTE Y EXTENDIDO MANUAL DE ABONO MINERAL EN ALCORQUE DE ARBUSTO O MATORRAL BAJO, TIPO NKP 15-15-15, A UNA DOSIS DE 60 G/UD, I/ CARGA Y TRANSPORTE.			
			10,832.000	0.34	3,682.88
801.0423N1	m²	SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA SIN REGOGIDA ÁREA DE SIEGA Y DESBROCE DE PRADERA Y SUPERFICIE SEMBRADA, MEDIANTE PASE DE SEGADORA DE 1,4 M DE ANCHURA DE CORTE ACOPLADA A LA TOMA DE FUERZA DE TRACTOR JARDINERO DE 60 CV, I/ EL CORTE CON MOTOGUADAÑA DE HILOS DE LAS HERBÁCEAS QUE PROSPERAN EN LOS ACORQUES DE LOS ARBOLES, LOS BORDES DE LOS MACIZOS DE ARBUSTOS UBICADOS EN LAS PRADERA Y CUALQUIER OTRO ELEMENTO U EQUIPAMIENTO. MEDIDA LA SUPERFICIE REAL EJECUTADA SEGUN DEFINICIÓN DE PROYECTO.			
			56,177.000	1.58	88,759.66
801.0581N1	m²	ESCARDA MANUAL DE ÁRBOLES / ARBUSTOS ESCARDA DE ÁRBOLES Y MACIZOS ARBUSTIVOS CON ACOLCHADO ORGÁNICO, CONSISTENTE EN ARRANQUE, ENTRECAVA Y ELIMINACIÓN DE MALAS HIERBAS EN ÁRBOLES Y ARBUSTOS, I/ REGULARIZACIÓN FINAL DE LAS SUPERFICIE, RECOGIDA DE RESTOS Y TRASNPORTE A ZONA DE COMPOSTAJE. MEDIDA LA SUPERFICIE REALEMENTE EJECUTADA SEGÚN DEFINICIONES DE PROYECTO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			36,423.810	0.87	31,688.71
		TOTAL APARTADO 07.2.2 MANTENIMIENTO DE SIEMBRAS Y PLANTACIONES.....			144,278.77
		APARTADO 07.2.3 PANTALLAS ACÚSTICAS			
		SUBAPARTADO 07.2.3.1 PANTALLA ACÚSTICA 1.8 MD			
801.0100	m²	PANEL METÁLICO ACÚSTICO FONOABSORBENTE COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.			
			156.000	124.88	19,481.28
620.0043N1	kg	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.			
			3,947.720	10.19	40,227.27
671.0030	m	PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.			
			154.000	55.49	8,545.46
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			43.120	109.05	4,702.24
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4,193.720	1.81	7,590.63
		TOTAL SUBAPARTADO 07.2.3.1 PANTALLA ACÚSTICA 1.8 MD			80,546.88
		SUBAPARTADO 07.2.3.2 PANTALLA ACÚSTICA 1.9 MD			
801.0100	m²	PANEL METÁLICO ACÚSTICO FONOABSORBENTE COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.			
			144.000	124.88	17,982.72
620.0043N1	kg	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.			
			3,665.740	10.19	37,353.89
671.0030	m	PILOTE DE DIÁMETRO DESDE 500 HASTA 650 mm (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 m) HASTA 30 m DE PROFUNDIDAD PERFORACIÓN DE PILOTE DE DIÁMETRO DESDE 500 HASTA 650 MM (INCLUIDO) CON ENTUBACIÓN RECUPERABLE (HASTA 6 M) HASTA 30 M DE PROFUNDIDAD I/ CAMISA Y SU RECUPERACIÓN.			
			97.500	55.49	5,410.28
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			27.300	109.05	2,977.07
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2,604.550	1.81	4,714.24
		TOTAL SUBAPARTADO 07.2.3.2 PANTALLA ACÚSTICA 1.9 MD			68,438.20
		SUBAPARTADO 07.2.3.3 PANTALLA ACÚSTICA 4.6 MD			
801.0100	m²	PANEL METÁLICO ACÚSTICO FONOABSORBENTE COLOCACIÓN DE PANEL METÁLICO ACÚSTICO FONOABSORBENTE, SIN INCLUIR PERFILES NI CIMENTACIÓN.			
			379.000	124.88	47,329.52
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			185.000	6.70	1,239.50
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			58.500	28.44	1,663.74
620.0043N1	kg	ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE ACERO LAMINADO UNE-EN 10025 S275JR, EN PERFILES LAMINADOS EN CALIENTE, PIEZAS SIMPLES, PARA APLICACIONES ESTRUCTURALES.			
			6,926.900	10.19	70,585.11
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTA-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		LLAS, ENCEPADOS Y ACERAS.			
			114.170	109.05	12,450.24
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			5,768.990	1.81	10,441.87
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			14.800	66.48	983.90
		TOTAL SUBAPARTADO 07.2.3.3 PANTALLA ACÚSTICA 4.6 MD			144,693.88
		TOTAL APARTADO 07.2.3 PANTALLAS ACÚSTICAS			293,678.96
		TOTAL SUBCAPÍTULO 07.2 MEDIDAS CORRECTORAS			641,669.31
		SUBCAPÍTULO 07.3 ESTUDIO DE GESTIÓN DE RESIDUOS			
950.0010	t	CLASIFICACIÓN Y RECOGIDA SELECTIVA CLASIFICACIÓN Y RECOGIDA SELECTIVA DE RESIDUOS, EXCEPTO TIERRAS Y PIEDRAS DE EXCAVACIÓN, MEDIANTE MEDIOS MANUALES Y MECÁNICOS DE LOS RESIDUOS Y SU DEPÓSITO EN LA ZONA PRINCIPAL DE ALMACENAMIENTO DE RESIDUOS DE LA OBRA.			
			25,832.210	6.51	168,167.69
950.0020	t	GESTIÓN DE RNP NO PÉTREOS CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSO - RNP- DE CARÁCTER NO PÉTREO (CARTÓN-PAPEL, MADERA, VIDRIO, PLÁSTICOS Y METALES INCLUIDOS ENVASES Y EMBALAJES DE ESTOS MATERIALES ASÍ COMO BIODEGRADABLES DEL DESBROCE) A PLANTA DE VALORIZACIÓN AUTORIZADA POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA, INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			18,157.520	10.96	199,006.42
950.0030	t	GESTIÓN DE RNP PÉTREOS CARGA Y TRANSPORTE DE RESIDUOS DE CONSTRUCCIÓN Y DEMOLICIÓN NO PELIGROSOS -RNP- DE CARÁCTER PÉTREO (EXCEPTO TIERRAS Y PIEDRAS) CONSTITUIDOS POR HORMIGÓN, LADRILLOS, TEJAS Y MATERIALES CERÁMICOS (O MEZCLA DE ÉSTOS), YESO Y/O MEZCLAS BITUMINOSAS A PLANTA DE VALORIZACIÓN POR TRANSPORTISTA AUTORIZADO (POR CONSEJERÍA DE MEDIO AMBIENTE), A UNA DISTANCIA DE 20 KM., CONSIDERANDO IDA Y VUELTA, EN CAMIONES BASCULANTES DE HASTA 16 T. DE PESO, CARGADOS CON PALA CARGADORA INCLUSO CANON DE ENTRADA A PLANTA, SIN MEDIDAS DE PROTECCIÓN COLECTIVAS.			
			7,674.690	7.78	59,709.09
950.0080N1	t	CANON GESTIÓN DE TIERRAS CANON DE ENTRADA A PLANTA DE GESTIÓN DE RESIDUOS DE TIERRAS. NO SE INCLUYE EL TRANSPORTE.			
			4,169,653.440	3.25	13,551,373.68
		TOTAL SUBCAPÍTULO 07.3 ESTUDIO DE GESTIÓN DE RESIDUOS			13,978,256.88
		TOTAL CAPÍTULO 07 ACTUACIONES MEDIOAMBIENTALES			14,891,867.75

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 08 OBRAS COMPLEMENTARIAS			
		SUBCAPÍTULO 08.1 CERRAMIENTO			
915.0010	m	CERRAMIENTO COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN			
		CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS			
			5,015.510	19.97	100,159.73
915.0020	ud	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA			
		PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.			
			9.000	247.27	2,225.43
		TOTAL SUBCAPÍTULO 08.1 CERRAMIENTO.....			102,385.16
		SUBCAPÍTULO 08.2 DESVÍOS PROVISIONALES			
		APARTADO 08.2.1 DESVÍOS DE CARRETERAS			
		SUBAPARTADO 08.2.1.1 FIRMES			
301.0040	m²	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE			
		DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			11,048.240	3.90	43,088.14
202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO			
		CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			311.590	106.00	33,028.54
211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70			
		BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70			
			152.780	689.00	105,265.42
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60			
		BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			
			16.120	773.80	12,473.66
510.0010	m³	ZAHORRA			
		ZAHORRA I/ TRANSPORTE, EXTENSIÓN Y COMPACTACIÓN, MEDIDA SOBRE PERFIL TEÓRICO.			
			739.500	26.78	19,803.81
513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
			3,115.900	16.45	51,256.56
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO			
		ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			158.820	18.29	2,904.82
530.0010N1	t	ÁRIDO PARA DOBLE TRATAMIENTO SUPERIFICIAL			
		ÁRIDO DE CANTERA PARA RIEGOS CON GRAVILLA, I/ LA EXTENSIÓN, TOTALMENTE TERMINADO.			
			67.553	18.38	1,241.62
530.0020	t	EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EMULSIÓN C50BF4 IMP EN RIEGO DE IMPRIMACIÓN, BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			3.910	491.36	1,921.22
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO			
		EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			26.040	624.16	16,253.13
531.0040	t	EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA			
		EMULSIÓN C60BP3 ADH, MODIFICADA CON POLÍMEROS, EN RIEGO DE ADHERENCIA I/ BARRIDO Y PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			4.150	657.43	2,728.33
533.0020	m²	DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG			
		DOBLE TRATAMIENTO SUPERFICIAL, CON EMULSIÓN ASFÁLTICA C65B4 TRG Y DOTACIÓN 1,10 KG/M² Y 0,80 KG/M² CON ÁRIDOS 6/3 Y 12/6 I/ EXTENSIÓN, COMPACTACIÓN, LIMPIEZA Y BARRIDO.			
			2,501.950	2.19	5,479.27
542.0010	t	MBC TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC16 SURF S, EXCEPTO BETÚN Y POLVO MINERAL, TOTALMENTE EXTENDIDA Y COMPACTADA.			
			1,080.620	30.61	33,077.78
542.0050	t	MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			1,716.100	29.35	50,367.54
542.0100	t	MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			887.840	29.38	26,084.74
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL			
		MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			5,160.000	2.68	13,828.80
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN			
		CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			188.710	59.86	11,296.18
		TOTAL SUBAPARTADO 08.2.1.1 FIRMES.....			430,099.56

SUBAPARTADO 08.2.1.2. SEÑALIZACIÓN Y DEFENSAS

700.0100	m	MARCA VIAL AMARILLA REFLECTANTE, TIPO ACRÍLICA, ANCHO 10 cm			
		MARCA VIAL TIPO II (RW) DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, DE 10 CM DE ANCHO I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE, PREMARCAJE Y ELIMINACIÓN POSTERIOR (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			11,200.000	0.37	4,144.00
700.0130N1	m²	MARCA VIAL AMARILLA REFLECTANTE, TIPO ACRÍLICA, EN SÍMBOLOS			
		MARCA VIAL DE TIPO II (RW), DE PINTURA AMARILLA REFLECTANTE, TIPO ACRÍLICA DE BASE SOLVENTE, EN SÍMBOLOS Y CEBREADOS I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA SUPERFICIE REALMENTE PINTADA).			
			285.000	7.90	2,251.50
701.0030N1	ud	SEÑAL TRIANGULAR DE 135 cm DE LADO, FONDO AMARILLO			
		SEÑAL TRIANGULAR REFLECTANTE, DE LADO 135 CM, FONDO AMARILLO (PARA DESVÍOS DE OBRA) CON BASE AUTOPORTANTE, INCLUSO COLOCACIÓN, LASTRADO Y RETIRADA			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		FINAL.			
			14.000	167.86	2,350.04
701.0061N1	ud	SEÑAL CIRCULAR DE 120 cm DIÁMETRO, FONDO AMARILLO SEÑAL CIRCULAR REFLECTANTE DE 120 CM DE DIÁMETRO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.			
			24.000	216.57	5,197.68
701.0190N1	ud	SEÑAL RECTANGULAR DE 90X135 cm, FONDO AMARILLO SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 1,35 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.			
			2.000	191.02	382.04
701.0110N1	ud	SEÑAL OCTOGONAL DE DOBLE APOTEMA DE 90 cm, FONDO AMARILLO SEÑAL REFLEXIVA OCTOGONAL DE DOBLE APOTEMA DE 90CM, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.			
			1.000	188.97	188.97
701.0195N1	ud	SEÑAL RECTANGULAR DE 90X30 cm, FONDO AMARILLO SEÑAL REFLEXIVA RECTANGULAR DE 0,90 X 0,30 M DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.			
			3.000	171.22	513.66
701.0130N1	ud	SEÑAL CUADRADA DE 120 cm DE LADO, FONDO AMARILLO SEÑAL CUADRADA REFLECTANTE DE 120 CM DE LADO, FONDO AMARILLO, CON BASE AUTOPORTANTE, INCLUSO LASTRADO, LASTRADO Y RETIRADA FINAL.			
			2.000	283.20	566.40
704.0140N1	m	BARRERA DESMONTABLE PREFABRICADA BARRERA DE OBRA CONTINUA A DOS CARAS DE MATERIAL PLÁSTICO Y 80 CM DE ALTURA, EN MÓDULOS ROJO-BLANCO, INCLUSO CAPTAFAROS INCORPORADOS, UNIDOS MEDIANTE FIJACIONES MACHIHEMBRADAS, INCLUSO RETIRADA FINAL.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			748.500	47.05	35,216.93
703.0110	ud	PANEL DIRECCIONAL DE 80X40 cm, DE CLASE RA2 PANEL DIRECCIONAL DE 80X40 CM Y RETRORREFLECTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			12.000	136.18	1,634.16
703.0150N1	ud	BALIZA LUMINOSA TIPO TL-2 CON CÉLULA FOTOELÉCTRICA BALIZA LUMINOSA DE BRILLO INTERMITENTE TIPO TL-2 CON CÉLULA FOTOELÉCTRICA DE ACTIVACIÓN, BATERÍA DE ALIMENTACIÓN, INCLUSO INSTALACIÓN Y RETIRADA FINAL.			
			12.000	116.17	1,394.04
701.0240	m²	CARTEL DE CHAPA DE ACERO GALVANIZADO, RA3 CARTEL DE CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE DE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			32.340	419.64	13,571.16
701.0220	m²	CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, CON RA3 CARTEL TIPO FLECHA EN CHAPA DE ACERO GALVANIZADO, RETRORREFLECTANTE CLASE RA3, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			2.850	419.64	1,195.97
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			320.000	107.09	34,268.80
700.0020	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			1,037.170	0.71	736.39
700.0035N1	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 30 cm			
		MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 30 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			30.250	1.23	37.21
700.0145N1	m²	MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE			
		MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.			
			83.230	12.90	1,073.67
301.0125N1	ud	LEVANTAMIENTO DE SEÑALES DE TRÁFICO			
		LEVANTAMIENTO DE SEÑAL DE TRÁFICO I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			37.000	4.06	150.22
701.0035N1	ud	POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO			
		POSTE GALVANIZADO DE SEÑAL VERTICAL DE TRÁFICO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE LA PLACA DE LA SEÑAL			
			21.000	136.27	2,861.67
701.0225N1	ud	POSTES GALVANIZADOS PARA CARTEL DE TRÁFICO TIPO FLECHA			
		POSTES GALVANIZADOS PARA CARTEL TIPO FLECHA, I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO. NO INCLUYE EL CARTEL DEL CHAPA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			16.000	265.33	4,245.28
301.0130	m	LEVANTAMIENTO DE BARRERA METÁLICA BIONDA			
		LEVANTAMIENTO DE BARRERA METÁLICA BIONDA I/ DESMONTAJE, ARRANQUE DE POSTES, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			290.000	5.32	1,542.80
704.0540	m	BARRERA METÁLICA SEGURIDAD SIMPLE, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=1,0 m O INFERIOR, ÍNDICE DE SEVERIDAD A			
		BARRERA METÁLICA DE SEGURIDAD SIMPLE, CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 1,00 M O INFERIOR, ÍNDICE DE SEVERIDAD A I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			234.000	35.91	8,402.94
704.1520	m	BARRERA METÁLICA SEGURIDAD SIMPLE CON SPM, CLASE CONTENCIÓN NORMAL, N2, W4 O INFERIOR, D=0,9 m O INFERIOR, ÍNDICE DE SEVERIDAD A			
		BARRERA METÁLICA DE SEGURIDAD SIMPLE CON SISTEMA PARA PROTECCIÓN DE MOTOCICLISTAS (SPM), CON NIVEL DE CONTENCIÓN N2, ANCHURA DE TRABAJO W4 O INFERIOR, DEFLEXIÓN DINÁMICA 0,90 M O INFERIOR, ÍNDICE DE SEVERIDAD A Y NIVEL DE SEVERIDAD I I/ CAPTAFAROS, POSTES, P.P. DE UNIONES, TORNILLERÍA Y ANCLAJES, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			56.000	65.02	3,641.12

TOTAL SUBAPARTADO 08.2.1.2. SEÑALIZACIÓN Y DEFENSAS..... 125,566.65

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 08.2.1.3 DEMOLICIÓN DE DESVÍOS PROVISIONALES			
320.0020N1	m³ EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	13,469.500	4.25	57,245.38
801.0060	m³ EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.	1,326.000	1.54	2,042.04
	TOTAL SUBAPARTADO 08.2.1.3 DEMOLICIÓN DE DESVÍOS PROVISIONALES.....			59,287.42
	TOTAL APARTADO 08.2.1 DESVÍOS DE CARRETERAS.....			614,953.63
	APARTADO 08.2.2 DESVÍO DE FERROCARRIL			
301.0050	m³ DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA DEMOLICIÓN DE FÁBRICA DE MAMPOSTERÍA I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	375.000	25.45	9,543.75
1000.0001N1	m RIPADO DE VÍA RIPADO DE VÍA HASTA 2 M COMPRENDIENDO CORTES DE CARRIL, BATEO Y NIVELACIÓN, INCLUSO HERRAMIENTAS Y MEDIOS AUXILIARES QUE SE PRECISEN, ASÍ COMO LOS MEDIOS DE SEGURIDAD Y PROTECCIÓN REGLAMENTARIOS.	700.000	22.80	15,960.00
1000.0002N1	m SUMINISTRO Y MONTAJE DE VÍA UIC-54 SUMINISTRO Y MONTAJE DE VÍA , CON CARRIL NUEVO TIPO UIC-54, TRAVIESA NUEVA DE HORMIGÓN CADA 0,6 M CON SUJECIÓN Y ACCESORIOS NECESARIOS, RECTIFICACIÓN Y BATEO NECESARIO HASTA CUMPLIR LAS TOLERANCIAS CORRESPONDIENTES A LA PRIMERA NIVELACIÓN, PERFILADO DE BANQUETAS, LIMPIEZA Y ENRASADO DE PASEOS Y ENTREVÍA HASTA CONSEGUIR LA SECCIÓN TIPO DEFINIDA			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	EN PLANOS.	355.000	475.68	168,866.40
1000.0003N1	m³ BALASTO PROCEDENTE DE CANTERA TOLVA BALASTO DE PIEDRA SILÍCEA TIPO 1 EN TOLVA PROCEDENTE DE CANTERA, SUMINISTRADO, TRANSPORTADO, EXTENDIDO, HUMIDIFICADO, COMPACTADO Y NIVELACIÓN Y ACABADO DE LA SUPERFICIE.	2,057.400	41.53	85,443.82
1000.0004N1	m³ CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA CAPA DE FORMA CON MATERIAL PROCEDENTE DE CANTERA I/ EXCAVACIÓN, CARGA Y TRANSPORTE DE MATERIAL HASTA UNA DISTANCIA DE 30 KM, SUMINISTRO DE MATERIAL ASÍ COMO EL CANON Y LOS PERMISOS NECESARIOS, EXTENDIDO, HUMIDIFICACIÓN Y COMPACTACIÓN DEL MATERIAL, NIVELACIÓN Y ACABADO DE LA SUPERFICIE, EJECUCIÓN DE TRAMO DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.	3,181.900	9.47	30,132.59
1000.0005N1	m³ SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA SUBBALASTO CON MATERIAL PROCEDENTE DE CANTERA I/ FABRICACIÓN, SUMINISTRO HASTA UNA DISTANCIA DE 20 KM, MAQUINARIA, EXTENDIDO, HUMIDIFICACIÓN, COMPACTACIÓN, NIVELACIÓN, ACABADO DE SUPERFICIE, EJECUCIÓN DE TRAMOS DE ENSAYOS Y CUANTOS MEDIOS AUXILIARES SEAN NECESARIOS.	1,629.600	14.13	23,026.25
1000.0007N1	m LEVANTE DE VÍA LEVANTE DE VÍA DE CUALQUIER TIPO, PREVIAMENTE DESGUARNECIDA O NO, CON CARRILES Y FIJACIÓN DE CUALQUIER TIPO CON O SIN DESLIZANTE, COMPRENDIENDO LA RETIRADA DE CARRILES, TRAVIESAS Y PEQUEÑO MATERIAL, INCLUSO BALASTO, ACOPIO Y CLASIFICACIÓN DE LOS MISMOS, CARGA SOBRE VAGÓN, CLASIFICACIÓN EN PARQUE DEL MATERIAL APROVECHABLE Y TRANSPORTE Y DESCARGA DE PRODUCTOS SOBRANTES EN VERTEDERO Y COMPENSACIÓN POR LA OBLIGACIÓN DE PARALIZACIÓN DE EQUIPOS POR EL PASO DE TRENES.	355.000	33.63	11,938.65

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
1000.0008N1	m	REPLANTEO DE VÍA ÚNICA REPLANTEO DE VÍA DOBLE O ÚNICA, INCLUIDOS TODOS LOS DATOS DE NIVELACIÓN, ALINEACIÓN Y PERALTE, BIEN POR FLECHAS Y DISTANCIA LATERAL, BIEN POR COORDENADAS ABSOLUTAS.	1,055.000	21.81	23,009.55
1000.0009N1	m	ESTADO PREVIO DE RECEPCIÓN DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO PREVIO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO PREVIO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN PRIMER LEVANTE, APROBADO ÉSTE POR LA D.O. EN EL ESTADO PREVIO A LA RECEPCIÓN LA VÍA ALCANZARÁ UNA COTA DE -27MM RESPECTO A LA COTA CABEZA DE CARRIL. ESTA ACTIVIDAD INCLUYE TRES LEVANTES Y TRES ESTABILIZADOS, QUE SEGUIRÁN LA SIGUIENTE SECUENCIA: DESCARGA DE BALASTO, PERFILADO, BATEO, ESTABILIZADO, PERFILADO Y BARRIDO.	1,055.000	19.84	20,931.20
1000.0010N1	ud	SOLDADURA ALUMINOTÉRMICA CARRIL R260 SOLDADURA ALUMINOTÉRMICA PARA CALIDAD 260 CON PRECALENTAMIENTO AIRE INDUCIDO Y PROPANO EN PLENA VÍA Y KIT DE SOLDADURA CON CRISOL DE UN SOLO USO PARA UNIONES DE CARRILES SEPARADOS ENTRE SÍ UNA DISTANCIA MENOR O IGUAL A 180 M. COMPRENDE LA MANO DE OBRA NECESARIA PARA LA EJECUCIÓN EN VÍA DE LA SOLDADURA PARA UNIÓN DE CARRILES DE CUALQUIER PERFIL, LONGITUD Y CLASE DE ACERO. INCLUYE: DESMONTAJE DE BRIDAS Y TORNILLOS; AFLOJADO DE LAS SUJECIONES NECESARIAS PARA LA ALINEACIÓN DE LOS CARRILES; RETIRADA DE BALASTO PARA EL MOVIMIENTO LATERAL DE TRAVIESAS; LOS TRABAJOS NECESARIOS PARA LA FORMACIÓN DE LA CALA NOMINAL ADECUADA POR DESPLAZAMIENTO DE CARRILES, INCLUSO CON TENSORES HIDRÁULICOS; LOS CORTES CON TRONZADORA NECESARIOS PARA SANEAMIENTO DE LOS EXTREMOS A SOLDAR; ALINEACIÓN EN PLANTA Y ALZADO DE LOS CARRILES CON LOS EQUIPOS ADECUADOS; KIT DE SOLDADURA Y CONSUMIBLES; DESBASTADO, ESMERILADO DE ACABADO Y ARREGLO DEL PERFIL; MARCADO Y REPOSICIÓN DE TODOS LOS ELEMENTOS DE LA VÍA PARA QUE ÉSTA QUEDE EN ÓPTIMAS CONDICIONES DE SERVICIO; TRABAJO DE AFLOJADO Y POSTERIOR APRETADO DE LAS SUJECIONES DE LAS TRAVIESAS COLATERALES DE LA SOLDADURA PARA AMINORAR LAS TENSIONES PROVOCADAS POR LA RETRACCIÓN DE LA SOL-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DADURA; TRABAJOS AUXILIARES; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF.	29.580	390.62	11,554.54
1000.0011N1	m	LIBERACIÓN DE TENSIONES EN BARRA LARGA LIBERACIÓN DE TENSIONES EN BARRA LARGA SOLDADA. INCLUYE: MANO DE OBRA PARA EL AFLOJADO DE SUJECIONES EN LA LONGITUD DE VÍA A TRATAR; FORMACIÓN DE PUNTOS FIJOS; COLOCACIÓN DE RODILLOS ENTRE EL CARRIL Y LA TRAVIESA ASÍ COMO SU POSTERIOR RETIRADA (QUITANDO LA PLACA DE ASIENTO Y VOLVIENDO A COLOCARLA), PARA FAVORECER EL DESLIZAMIENTO LONGITUDINAL DE LOS CARRILES CON PEQUEÑOS GOLPES PERCUTIDOS CON MARTILLOS DE MADERA O NYLON; MARCADO DE PUNTOS CADA 50M EN TRAVIESA Y CARRIL PARA EL CONTROL DEL DESPLAZAMIENTO DE LAS SEMIBARRAS; FORMACIÓN DE LA CALA DEFINITIVA CON TENSORES HIDRÁULICOS; APRETADO DE LA SUJECIÓN CON MOTOCLAVADORAS HIDRÁULICAS, QUE CUENTE CON ACEPTACIÓN DE USO DE ADIF, DOTADAS DE PAR DE APRIETE AJUSTADO AL TIPO DE SUJECIÓN TRATADA; MATERIALES Y CONSUMIBLES SITUADOS A PIE DE OBRA; CONTROL DE LA TEMPERATURA DEL ELEMENTO REPARADO; EL USO DE MAQUINARIA Y EQUIPOS ESPECÍFICOS AUTORIZADOS POR ADIF; LA ENTREGA DEL ACTA DE NEUTRALIZACIÓN SEGÚN N.A.V. NO SE INCLUYEN NI LOS CORTES NI LAS SOLDADURAS DE CARRIL. EL ABONO DE LA TOTALIDAD DEL IMPORTE CORRESPONDIENTE A ESTA UNIDAD ESTARÁ CONDICIONADO A LA REALIZACIÓN DE LAS COMPROBACIONES, MEDICIONES Y / O INSPECCIONES DESCRITAS EN LA NORMATIVA VIGENTE.	1,055.000	5.59	5,897.45
1000.0012N1	m	ESTADO DE RECEPCIÓN DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO LEVANTE DE VÍA, NIVELACIÓN, ALINEACIÓN Y DISTRIBUCIÓN DE BALASTO PARA ALCANZAR EL ESTADO DE RECEPCIÓN, INCLUSO PERFILADO. COMPRENDE LAS OPERACIONES NECESARIAS PARA LLEVAR LA VÍA A ESTADO DE RECEPCIÓN, PARTIENDO DE LA VÍA EN ESTADO PREVIO DE LA RECEPCIÓN, APROBADO ÉSTE POR LA D.O. Y TRAS HABER LLEVADO A CABO LA NEUTRALIZACIÓN DE TENSIONES. INCLUYE LAS OPERACIONES DE LEVANTE DESDE LA FASE DE ESTADO PREVIO DE RECEPCIÓN HASTA LA COTA DEFINITIVA, DEJANDO LA VÍA COLOCADA EN PLANTA Y ALZADO.	1,055.000	8.63	9,104.65
320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			4,367.700	4.25	18,562.73
801.0060	m³	EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES ACOPIO, MANTENIMIENTO, CARGA, TRANSPORTE Y EXTENSIÓN DE TIERRA VEGETAL DE LA PROPIA OBRA EN TALUDES.			
			1,031.400	1.54	1,588.36
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			106.000	6.70	710.20
400.0010	m³	HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA i/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN HORMIGÓN C20/25 EN FORMACIÓN DE CUNETA I/ ENCOFRADO, FRATASADO, ACABADOS Y JUNTAS SIN INCLUIR EXCAVACIÓN			
			63.300	106.15	6,719.30
1000.0101N1	m	CANALETA PREFABRICADA PARA CABLES CANALETA PREFABRICADA PARA CABLES DE DIMENSIONES 400 X 290 MM CON TAPA ARMADA I/ EJECUCIÓN DE ZANJA Y MATERIAL FILTRANTE			
			705.000	51.66	36,420.30

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
1000.0102N1	ud	ARQUETA DE HORMIGÓN PARA CABLES ARQUETA DE HORMIGÓN PARA CABLES			
			4.000	398.24	1,592.96
1010.0000N1	PA	DISEÑO DE ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIÓN FERROVIARIAS PARTIDA ALZADA A JUSTIFICAR PARA EL SUMINISTRO, OBRA E INSTALACIÓN DE LA MODIFICACIÓN DEL TENDIDO DE LOS ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIONES FERROVIARIAS DEBIDO AL DESVÍO TEMPORAL DE LA LÍNEA Y SU VUELTA A LA CONDICIÓN INICIAL			
			1.000	7,000.00	7,000.00
1010.0000N2	PA	SUMINISTRO, OBRA E INSTALACIÓN DE ELEMENTOS DE SEÑALIZACIÓN Y COMUNICACIÓN FERROVIARIAS PARTIDA ALZADA A JUSTIFICAR POR LA POSIBLE MODIFICACIÓN DE LAS INSTALACIONES FERROVIARIAS DE SEÑALIZACIÓN Y COMUNICACIÓN. ESTUDIO DE DETALLE DE LAS INSTALACIONES EXISTENTES Y DISEÑO DE SU MODIFICACIÓN PARA EL DESVÍO PROVISIONAL Y SU POSIBLE REPOSICIÓN DEFINITIVA			
			1.000	250,000.00	250,000.00
301.0020	m³	DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			35.000	33.07	1,157.45
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			2.500	3.47	8.68
696.0010N1	m²	FORRO DRENANTE POLIAMIDA FORRO DRENANTE DE POLIAMIDA ENMARAÑADA ENTRE CAPAS DE GEOTEXTIL NO TEJIDO, PARA DRENAJE VERTICAL DE TRASDÓS DE ESTRIBOS Y OBRAS DE FÁBRICA.			
			13.000	11.26	146.38
414.0240	m	TUBO DE HORMIGÓN ARMADO DE DIÁMETRO 1800 mm CLASE 180 TUBO DE HORMIGÓN ARMADO SOBRE CAMA DE HORMIGÓN C20/25 DE 10 CM DE ESPESOR Y DIÁMETRO 1800MM CLASE 180 (UNE-EN1916) CON UNIÓN ELÁSTICA Y JUNTA DE GOMA I/SUMINISTRO, TRANSPORTE A OBRA Y COLOCACIÓN			
			20.000	509.87	10,197.40
690.0040	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON PINTURA I/ P.P. DE CHORREADO PREVIO CON ARENA Y TODOS LOS MEDIOS NECESARIOS PARA LA COMPLETA EJECUCIÓN.			
			10.000	7.84	78.40
610.0070	m³	HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C30/37 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			45.000	113.62	5,112.90
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			57.000	33.91	1,932.87
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			1,095.000	1.81	1,981.95
658.0010	m³	ESCOLLERA DE 200/400 kg EN DRENAJE O PROTECCION FLUVIAL ESCOLLERA COLOCADA DE 200/400 KG EN ELEMENTOS DE DRENAJE O PROTECCIÓN FLUVIAL, EN CONTRAFUERTES DRENANTES, O PARA CIMENTACIÓN DE MUROS Y OTRAS ESTRUCTURAS.			
			20.000	37.10	742.00
290.0090N1	m²	SUMINISTRO Y COLOCACIÓN DE GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) GEOTEXTIL NO TEJIDO DE MATERIAL VIRGEN (100%) TOTALMENTE COLOCADO CON FUNCIÓN DE SEPARACIÓN Y FILTRO Y CON LAS PROPIEDADES FÍSICAS REQUERIDAS SEGÚN EL PLIEGO.			
			50.000	6.74	337.00
301.0120	m	LEVANTAMIENTO DE VALLAS METÁLICAS LEVANTAMIENTO DE VALLAS METÁLICAS I/ DESMONTAJE, DEMOLICIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
			230.000	3.82	878.60
915.0010N1	m	CERRAMIENTO DE ADIF PARA L.A.V. DE POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO CERRAMIENTO DE ADIF PARA L.A.V. DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 3.5 M, ARRIOSTRAMIENTO CADA 35 M Y MALLA DE ACERO GALVANIZADO, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS			
			225.000	38.63	8,691.75
1000.0013N1	h	PILOTO DE VÍA PILOTO DE VÍA, PARA TRABAJOS CERCA DE LAS VÍAS DE FERROCARRIL			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		240.000	52.45	12,588.00
	TOTAL APARTADO 08.2.2 DESVÍO DE FERROCARRIL			781,856.08
	TOTAL SUBCAPÍTULO 08.2 DESVÍOS PROVISIONALES			1,396,809.71
	SUBCAPÍTULO 08.3 EQUIPAMIENTO ITS			
980.0100N1	ud ARQUETA PARA CANALIZACIÓN PARA SISTEMAS ITS DE 60 x 60 ARQUETA DE 60 X 60 DE DIMENSIONES INTERIORES CON TAPA CON MARCO METÁLICO Y ANAGRAMA DE LA DGT.	7.000	134.21	939.47
980.0110N1	ud ARQUETA DE EMPALME PARA CANALIZACIÓN PARA SISTEMAS ITS DE 80 x 80 ARQUETA DE EMPALME DE 80 X 80 DE DIMENSIONES INTERIORES.	9.000	144.66	1,301.94
980.0120N3	m CANALIZACIÓN PARA SISTEMAS ITS DE 3 TUBOS PVC Y 2 TUBOS CORRUGADOS BAJO CALZADA CANALIZACIÓN PARA SISTEMAS ITS BAJO CALZADA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, EMBEBIDOS EN HORMIGÓN EN MASA HM-20.	950.000	46.18	43,871.00
980.0125N3	m CANALIZACIÓN PARA SISTEMAS ITS DE 3 TUBOS PVC Y 2 TUBOS CORRUGADOS EN BERMA CANALIZACIÓN PARA SISTEMAS ITS BAJO BERMA, DE DIMENSIONES 40 X 30 CM, COMPUESTA POR TRES TUBOS DE PVC DE 50 MM, SITUADOS SOBRE OTROS DOS TUBOS CORRUGADOS DE 110 MM, RECUBIERTOS DE ARENA.	2,150.000	40.07	86,150.50
	TOTAL SUBCAPÍTULO 08.3 EQUIPAMIENTO ITS			132,262.91
	TOTAL CAPÍTULO 08 OBRAS COMPLEMENTARIAS			1,631,457.78

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	CAPÍTULO 09 REPOSICIÓN DE SERVICIOS Y SERVIDUMBRES			
	SUBCAPÍTULO 09.1 LÍNEAS ELÉCTRICAS			
998.0001N1	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO	1.000	253,888.05	253,888.05
	TOTAL SUBCAPÍTULO 09.1 LÍNEAS ELÉCTRICAS			253,888.05
	SUBCAPÍTULO 09.2 LÍNEAS TELEFÓNICAS			
998.0002N1	PA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO. SE APLICA LA ORDEN CIRCULAR Nº 276/S.G. DE 1979 SOBRE RELACIONES CON LA COMPAÑÍA TELEFÓNICA NACIONAL DE ESPAÑA, POR LA CUAL EL MINISTERIO DE FOMENTO SE HARÁ CARGO DEL 50% DE LA VALORACIÓN DE LAS REPOSICIONES TELEFÓNICAS Y TELEFÓNICA DEL 50% RESTANTE.	0.500	71,311.24	35,655.62
	TOTAL SUBCAPÍTULO 09.2 LÍNEAS TELEFÓNICAS			35,655.62
	SUBCAPÍTULO 09.3 ALUMBRADO PÚBLICO			
	APARTADO 09.3.01 SERVICIO 04.012			
999.0282N1	m TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	25.000	8.14	203.50
999.0279N1	ud DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	1.000	1,236.89	1,236.89
999.0276N1	m DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN			
			30.000	1.52	45.60
		TOTAL APARTADO 09.3.01 SERVICIO 04.012.....			1,485.99
		APARTADO 09.3.02 SERVICIO 04.013			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA			
		DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN			
			143.000	1.52	217.36
999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN			
		DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN			
			4.000	81.70	326.80
		TOTAL APARTADO 09.3.02 SERVICIO 04.013.....			544.16
		APARTADO 09.3.03 SERVICIO 04.014			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA			
		DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN			
			26.000	1.52	39.52
999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN			
		DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN			
			2.000	81.70	163.40
		TOTAL APARTADO 09.3.03 SERVICIO 04.014.....			202.92

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.3.04 SERVICIO 04.016			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA			
		DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN			
			222.000	1.52	337.44
999.0282N1	m	TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO			
		SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO			
			227.000	8.14	1,847.78
999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR			
		SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV			
			227.000	5.04	1,144.08
999.0279N1	ud	DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN			
		DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN			
			5.000	1,236.89	6,184.45
999.0274N1	ud	DESMONTAJE DE PUNTO DE LUZ			
		DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO			
			1.000	193.40	193.40
999.0281N1	ud	TOMA DE TIERRA			
		TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD			
			5.000	161.47	807.35
		TOTAL APARTADO 09.3.04 SERVICIO 04.016.....			10,514.50

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.3.05 SERVICIO 04.017			
		SUBAPARTADO 09.3.04.01 DESVÍO PROVISIONAL			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	154.000	1.52	234.08
999.0282N1	m	TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	196.000	8.14	1,595.44
999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV	196.000	5.04	987.84
999.0281N1	ud	TOMA DE TIERRA TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD	5.000	161.47	807.35
999.0275N1	ud	DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y BÁCULO DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO, I/ CIMENTACIÓN Y PARTE PROPORCIONAL DE ARQUETAS, CANALIZACIONES Y CABLEADO	5.000	1,983.96	9,919.80
		TOTAL SUBAPARTADO 09.3.04.01 DESVÍO PROVISIONAL			13,544.51

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 09.3.04.02 REPOSICIÓN DEFINITIVA			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	196.000	1.52	297.92
999.0282N1	m	TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	154.000	8.14	1,253.56
999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV	154.000	5.04	776.16
999.0281N1	ud	TOMA DE TIERRA TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD	5.000	161.47	807.35
999.0274N1	ud	DESMONTAJE DE PUNTO DE LUZ DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA EN COLUMNA O BÁCULO DE ACERO GALVANIZADO	5.000	193.40	967.00
		TOTAL SUBAPARTADO 09.3.04.02 REPOSICIÓN DEFINITIVA			4,101.99
		TOTAL APARTADO 09.3.05 SERVICIO 04.017			17,646.50

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.3.06 SERVICIO 04.018			
999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	4.000	81.70	326.80
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	125.000	1.52	190.00
		TOTAL APARTADO 09.3.06 SERVICIO 04.018			516.80
		APARTADO 09.3.07 SERVICIO 04.019			
999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	1.000	81.70	81.70
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	43.000	1.52	65.36
		TOTAL APARTADO 09.3.07 SERVICIO 04.019			147.06

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.3.08 SERVICIO 04.020			
999.0277N1	ud	DESMONTAJE DE PUNTO DE LUZ DE LUMINARIA SOBRE POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	1.000	81.70	81.70
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	40.000	1.52	60.80
		TOTAL APARTADO 09.3.08 SERVICIO 04.020			142.50
		APARTADO 09.3.09 SERVICIO 04.021			
999.0276N1	m	DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA DESMONTAJE DE TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA EXISTENTE, I/ TRANSPORTE DE PRODUCTOS A ALMACÉN	160.000	1.52	243.20
999.0279N1	ud	DESMONTAJE DE PUNTO DE LUZ Y NUEVO MONTAJE DE LUMINARIA Y POSTES DE HORMIGÓN DESMONTAJE DE PUNTO DE LUZ EXISTENTE Y NUEVO MONTAJE DE PUNTO DE LUZ FORMADO POR LUMINARIA CERRADA CON BRAZO MURAL, MONTADA SOBRE POSTES DE HORMIGÓN	5.000	1,236.89	6,184.45
999.0282N1	m	TENDIDO AÉREO O CANALIZACIÓN SUBTERRÁNEA ALUMBRADO SUMINISTRO DE LÍNEA AÉREA DE ALUMBRADO PÚBLICO O CANALIZACIÓN SUBTERRÁNEA DE ALUMBRADO PÚBLICO	103.000	8.14	838.42
999.0280N1	m	SUMINISTRO DE CABLE UNIPOLAR SUMINISTRO DE CABLE UNIPOLAR DE 6MM DE SECCIÓN DE COBRE CON AISLAMIENTO HASTA 1KV			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		103.000	5.04	519.12
999.0281N1	ud TOMA DE TIERRA TOMA DE TIERRA CON PICA DE ACERO COBREADO DE 1.5 M DE LONGITUD			
		4.000	161.47	645.88
	TOTAL APARTADO 09.3.09 SERVICIO 04.021			8,431.07
	TOTAL SUBCAPÍTULO 09.3 ALUMBRADO PÚBLICO			39,631.50
	SUBCAPÍTULO 09.4 ABASTECIMIENTOS DE AGUA			
	APARTADO 09.4.01 SERVICIO 05.009			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		20.000	60.08	1,201.60
	TOTAL APARTADO 09.4.01 SERVICIO 05.009			1,201.60
	APARTADO 09.4.02 SERVICIO 05.010			
	SUBAPARTADO 09.4.02.01 DESVÍO PROVISIONAL			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		289.000	60.08	17,363.12
999.0320N1	ud VENTOSA DE DOBLE BOLA Ø 80 mm PN-25 ATMÓSFERAS DE FUNDICIÓN DÚCTIL VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA			
		1.000	52.65	52.65
932.0002N1	m TUBERÍA DE POLIETILENO DE Ø 90 mm HASTA PT-16 ATMÓSFERAS TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
		550.000	30.82	16,951.00
931.0001N1	ud ARQUETA A-I ARQUETA TIPO A-I			
		12.000	433.90	5,206.80
	TOTAL SUBAPARTADO 09.4.02.01 DESVÍO PROVISIONAL			39,573.57
	SUBAPARTADO 09.4.02.02 REPOSICIÓN DEFINITIVA			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		550.000	60.08	33,044.00
932.0002N1	m TUBERÍA DE POLIETILENO DE Ø 90 mm HASTA PT-16 ATMÓSFERAS TUBERÍA DE POLIETILENO Ø DE 90 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
		345.000	30.82	10,632.90
931.0001N1	ud ARQUETA A-I ARQUETA TIPO A-I			
		4.000	433.90	1,735.60
	TOTAL SUBAPARTADO 09.4.02.02 REPOSICIÓN DEFINITIVA			45,412.50
	TOTAL APARTADO 09.4.02 SERVICIO 05.010			84,986.07

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

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PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.4.03 SERVICIO 05.012			
		SUBAPARTADO 09.4.03.01 DESVÍO PROVISIONAL			
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	147.000	60.08	8,831.76
930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	113.000	175.73	19,857.49
999.0320N1	ud	VENTOSA DE DOBLE BOLA Ø 80 mm PN-25 ATMÓSFERAS DE FUNDICIÓN DÚCTIL VENTOSA DE DOBLE BOLA DE DIÁMETRO Ø 80 MM DE FUNDICIÓN DÚCTIL, PN-25 ATMÓSFERAS, I/ VÁLVULA DE CIERRE INSTALADA	1.000	52.65	52.65
999.0304N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE Ø 300 mm VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	1.000	2,627.39	2,627.39
931.0003N1	ud	ARQUETA A-III ARQUETA TIPO A-III	2.000	621.35	1,242.70
		TOTAL SUBAPARTADO 09.4.03.01 DESVÍO PROVISIONAL.....			32,611.99

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 09.4.03.02 REPOSICIÓN DEFINITIVA			
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	113.000	60.08	6,789.04
930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	148.000	175.73	26,008.04
931.0003N1	ud	ARQUETA A-III ARQUETA TIPO A-III	1.000	621.35	621.35
999.0304N1	ud	VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE Ø 300 mm VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 300 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE	1.000	2,627.39	2,627.39
		TOTAL SUBAPARTADO 09.4.03.02 REPOSICIÓN DEFINITIVA.....			36,045.82
		TOTAL APARTADO 09.4.03 SERVICIO 05.012.....			68,657.81

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.4.04 SERVICIO 05.013			
		SUBAPARTADO 09.4.04.01 DESVÍO PROVISIONAL			
999.0303N1	ud	VÁLVULA DE COMPUERTA DE LATÓN DE Ø 110 mm HASTA PN-16 ATMÓSFERAS VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA	1.000	88.51	88.51
932.0001N1	m	TUBERÍA DE POLIETILENO DE Ø 63 mm HASTA PT-16 ATMÓSFERAS TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	10.000	25.30	253.00
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	71.000	60.08	4,265.68
		TOTAL SUBAPARTADO 09.4.04.01 DESVÍO PROVISIONAL.....			4,607.19
		SUBAPARTADO 09.4.04.02 REPOSICIÓN DEFINITIVA			
999.0303N1	ud	VÁLVULA DE COMPUERTA DE LATÓN DE Ø 110 mm HASTA PN-16 ATMÓSFERAS VÁLVULA DE COMPUERTA DE LATÓN DE DIÁMETRO Ø 110 MM HASTA PN-16 ATMÓSFERAS, INSTALADA	1.000	88.51	88.51
932.0001N1	m	TUBERÍA DE POLIETILENO DE Ø 63 mm HASTA PT-16 ATMÓSFERAS TUBERÍA DE POLIETILENO Ø DE 63 MM HASTA PT-16 ATMÓSFERAS, SOBRE CAMA DE ARENA, I/ EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	71.000	25.30	1,796.30

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	10.000	60.08	600.80
		TOTAL SUBAPARTADO 09.4.04.02 REPOSICIÓN DEFINITIVA.....			2,485.61
		TOTAL APARTADO 09.4.04 SERVICIO 05.013.....			7,092.80
		APARTADO 09.4.05 SERVICIO 05.014			
		SUBAPARTADO 09.4.05.01 DESVÍO PROVISIONAL			
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	178.000	60.08	10,694.24
930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.	22.000	175.73	3,866.06
930.0001N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	159.000	116.59	18,537.81
931.0002N1	ud	ARQUETA A-II ARQUETA TIPO A-II	3.000	484.43	1,453.29
		TOTAL SUBAPARTADO 09.4.05.01 DESVÍO PROVISIONAL.....			34,551.40

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 09.4.05.02 REPOSICIÓN DEFINITIVA			
320.0091N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
			181.000	60.08	10,874.48
930.0004N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 300 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 300 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			87.000	175.73	15,288.51
930.0001N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO			
			90.000	116.59	10,493.10
		TOTAL SUBAPARTADO 09.4.05.02 REPOSICIÓN DEFINITIVA.....			36,656.09
		TOTAL APARTADO 09.4.05 SERVICIO 05.014.....			71,207.49
		APARTADO 09.4.06 SERVICIO 05.015			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
			175.000	120.16	21,028.00
930.0005N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 500 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			230.000	299.06	68,783.80
999.0313N1	m	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm) REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			80.000	396.22	31,697.60
931.0004N1	ud	ARQUETA A-IV ARQUETA TIPO A-IV			
			4.000	681.41	2,725.64
999.0305N1	ud	VÁLVULA DE MARIPOSA DE Ø 500 mm VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE			
			2.000	6,385.29	12,770.58
		TOTAL APARTADO 09.4.06 SERVICIO 05.015.....			137,005.62
		APARTADO 09.4.07 SERVICIO 05.016			
999.0313N1	m	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm) REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)			
			20.000	396.22	7,924.40
930.0005N1	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 500 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 500 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			25.000	299.06	7,476.50
931.0004N1	ud	ARQUETA A-IV ARQUETA TIPO A-IV			
			2.000	681.41	1,362.82
999.0305N1	ud	VÁLVULA DE MARIPOSA DE Ø 500 mm VÁLVULA DE MARIPOSA DE FUNDICIÓN DÚCTIL DE DIÁMETRO Ø 500 MM CON MECANISMO DE APERTURA MULTIVUELTAS CORONA-EJE SIN FIN, MOTORIZABLE PN-16 ATMÓSFERAS, I/ JUNTA DE DESMONTAJE AUTOPORTANTE			
			1.000	6,385.29	6,385.29

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL APARTADO 09.4.07 SERVICIO 05.016			23,149.01
	APARTADO 09.4.08 SERVICIO 05.017			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		202.000	60.08	12,136.16
	TOTAL APARTADO 09.4.08 SERVICIO 05.017			12,136.16
	APARTADO 09.4.09 SERVICIO 05.020			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		97.000	60.08	5,827.76
	TOTAL APARTADO 09.4.09 SERVICIO 05.020			5,827.76
	TOTAL SUBCAPÍTULO 09.4 ABASTECIMIENTOS DE AGUA			411,264.32
	SUBCAPÍTULO 09.5 SANEAMIENTOS			
	APARTADO 09.5.01 SERVICIO 06.007			
	SUBAPARTADO 09.5.01.01 DESVÍO PROVISIONAL			
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		505.000	120.16	60,680.80
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		22.000	726.46	15,982.12
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
		20.000	316.86	6,337.20
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM			
		580.000	242.64	140,731.20
	TOTAL SUBAPARTADO 09.5.01.01 DESVÍO PROVISIONAL			223,731.32
	SUBAPARTADO 09.5.01.02 REPOSICIÓN DEFINITIVA			
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		310.000	120.16	37,249.60
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
		9.000	316.86	2,851.74
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			11.000	726.46	7,991.06
932.0006N1	m	TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM			
			410.000	242.64	99,482.40
		TOTAL SUBAPARTADO 09.5.01.02 REPOSICIÓN DEFINITIVA			147,574.80
		TOTAL APARTADO 09.5.01 SERVICIO 06.007			371,306.12
		APARTADO 09.5.02 SERVICIO 06.008			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
			188.000	120.16	22,590.08
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			
			4.000	726.46	2,905.84
301.0133N1	m	LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
			3.000	316.86	950.58
999.0312N1	m	REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 mm) REFUERZO DE PROTECCIÓN TIPO CR-V (Ø 800 MM)			
			128.000	238.22	30,492.16
930.0004N2	m	TUBERÍA DE FUNDICIÓN DÚCTIL Ø 400 mm			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 400 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO.			
			183.000	241.49	44,192.67
		TOTAL APARTADO 09.5.02 SERVICIO 06.008			101,131.33
		APARTADO 09.5.03 SERVICIO 06.009			
		SUBAPARTADO 09.5.03.01 DESVÍO PROVISIONAL			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
			315.000	120.16	37,850.40
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.			
			2.000	726.46	1,452.92
932.0006N1	m	TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM			
			175.000	242.64	42,462.00
301.0133N1	m	LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
			2.000	316.86	633.72
		TOTAL SUBAPARTADO 09.5.03.01 DESVÍO PROVISIONAL			82,399.04

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 09.5.03.02 REPOSICIÓN DEFINITIVA			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	175.000	120.16	21,028.00
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.	4.000	726.46	2,905.84
301.0133N1	m	LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.	2.000	316.86	633.72
932.0006N1	m	TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM	215.000	242.64	52,167.60
		TOTAL SUBAPARTADO 09.5.03.02 REPOSICIÓN DEFINITIVA.....			76,735.16
		TOTAL APARTADO 09.5.03 SERVICIO 06.009.....			159,134.20

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.5.04 SERVICIO 06.010			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	80.000	120.16	9,612.80
		TOTAL APARTADO 09.5.04 SERVICIO 06.010.....			9,612.80
		APARTADO 09.5.05 SERVICIO 06.011			
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	103.000	120.16	12,376.48
410.0047N1	ud	POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.	3.000	726.46	2,179.38
414.0120	m	TUBERÍA DE HORMIGÓN DE DIÁMETRO 1000 mm COLECTOR ENTERRADO, FORMADO POR TUBO DE HORMIGÓN ARMADO PARA SANEAMIENTO SIN PRESIÓN, FABRICADO POR COMPRESIÓN RADIAL, CLASE 135, CARGA DE ROTURA 135 KN/M², DE 1000 MM DE DIÁMETRO NOMINAL (INTERIOR), UNIÓN POR ENCHUFE Y CAMPANA CON JUNTA ELÁSTICA. EL PRECIO INCLUYE LOS EQUIPOS Y LA MAQUINARIA NECESARIOS PARA EL DESPLAZAMIENTO Y LA DISPOSICIÓN EN OBRA DE LOS ELEMENTOS, PERO NO INCLUYE LA EXCAVACIÓN NI EL RELLENO PRINCIPAL.	154.000	227.23	34,993.42
999.0313N1	m	REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 mm) REFUERZO DE PROTECCIÓN TIPO CR-VI (Ø 1200 MM)			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		73.000	396.22	28,924.06
	TOTAL APARTADO 09.5.05 SERVICIO 06.011.....			78,473.34
	APARTADO 09.5.06 SERVICIO 06.012			
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		310.000	120.16	37,249.60
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
		13.000	316.86	4,119.18
	TOTAL APARTADO 09.5.06 SERVICIO 06.012.....			41,368.78
	APARTADO 09.5.07 SERVICIO 06.013			
320.0092N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
		200.000	120.16	24,032.00
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.			
		1.000	316.86	316.86

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL APARTADO 09.5.07 SERVICIO 06.013.....			24,348.86
	TOTAL SUBCAPÍTULO 09.5 SANEAMIENTOS.....			785,375.43
	SUBCAPÍTULO 09.6 CENTRO DEPORTIVO AS EIROAS			
	APARTADO 09.6.1 TRABAJOS PREVIOS			
301.0040	m² DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.			
		103.500	3.90	403.65
955.0010N1	m LEVANTADO Y RETIRADA DE CERRAMIENTO LEVANTADO DE CERRAMIENTO FORMADO POR MALLA ELECTROSOLDADA CON BASTIDOR DE PERFIL HUECO DE ACERO DE 200 CM DE ALTURA Y FIJADA MEDIANTE RECIBIDO EN OBRA DE FÁBRICA, CON MEDIOS MANUALES Y EQUIPO DE OXICORTE, Y CARGA MANUAL DEL MATERIAL DESMONTADO SOBRE CAMIÓN O CONTENEDOR.			
		170.000	6.54	1,111.80
955.0011N1	ud DESMONTAJE DE TORRE DE ILUMINACIÓN DESMONTAJE DE TORRE DE ILUMINACIÓN, DE ENTRE 10 Y 12 M DE ALTURA, CON RECUPERACIÓN DEL MATERIAL PARA SU POSTERIOR UBICACIÓN EN OTRO EMPLAZAMIENTO, SIENDO EL ORDEN DE EJECUCIÓN DEL PROCESO INVERSO AL DE SU INSTALACIÓN, Y CARGA MANUAL SOBRE CAMIÓN O CONTENEDOR. EL PRECIO INCLUYE EL DESMONTAJE DE LOS ACCESORIOS Y DE LOS ELEMENTOS DE FIJACIÓN, INCLUIDA LA DEMOLICIÓN DE LA CIMENTACIÓN.			
		1.000	350.63	350.63
955.0001N1	m DESMONTAJE REJILLA CANALETAS DESAGÜE DESMONTAJE, POR MEDIOS MANUALES, DE LAS REJILLAS DE CANALETAS PERIMETRALES DE DESAGÜE DEL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN DE LAS MISMAS; I/ REPOSICIÓN DE LAS REJAS O ELEMENTOS DE FIJACIÓN Y ANCLAJE EN MAL ESTADO O DETERIORADAS, LIMPIEZA DE LAS REJAS REUTILIZABLES CON AGUA A PRESIÓN, COLOCACIÓN DE LAS REJILLAS EN LAS CANALETAS PARA FI-			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	JACIÓN DEL NUEVO CÉSPED, LIMPIEZA DE LA CANALETA Y SISTEMA DE DRENAJE MEDIANTE AGUA A PRESIÓN COMPROBANDO SU CONEXIÓN CON EL COLECTOR DE SANEAMIENTO Y SU FUNCIONAMIENTO. MEDIDA LA LONGITUD REALMENTE EJECUTADA.			
		45.000	3.30	148.50
955.0002N1	ud DESMONTAJE DE EQUIPAMIENTO DEPORTIVO			
	DESMONTAJE Y RETIRADA, POR MEDIOS MANUALES, DEL EQUIPAMIENTO DEPORTIVO (PORTERÍAS, BARADILLAS, BANQUILLOS, CAÑONES DE RIEGO, ETC...) EXISTENTE EN EL CAMPO, CON ACOPIO DE MATERIAL DENTRO DE LA PROPIA INSTALACIÓN EN LUGAR DETERMINADO POR LA DIRECCIÓN FACULTATIVA PARA POSTERIOR REUTILIZACIÓN Y COLOCACIÓN, I/ REPOSICIÓN DE ELEMENTOS AUXILIARES Y DE FIJACIÓN O ANCLAJE DEL EQUIPAMIENTO EN MAL ESTADO O DETERIORADAS, COLOCACIÓN DEL EQIIPAMIENTO DEPORTIVO TRAS LA INSTALACIÓN DEL NUEVO CÉSPED, MEDIOS AUXILIARES Y AYUDAS DE ALBAÑILERÍA.			
		1.000	237.25	237.25
955.0003N1	m² LEVANTADO Y RETIRADA DE CÉSPED EXISTENTE			
	LEVANTADO Y RETIRADA DE PAVIMENTO DE CÉSPED ARTIFICIAL REALIZADO POR MEDIOS MECÁNICOS, MEDIANTE MAQUINARIA ESPECIALIZADA QUE PERMITA LA SEPARACIÓN MECÁNICA "IN SITU" DE TODOS SUS COMPONENTES (MOQUETA + ÁRIDO + SBR NEGRO) PARA POSTERIOR CLASIFICACIÓN, I/ EL ALMACENAMIENTO DEL MATERIAL DE RELLENO (ÁRIDO Y SBR NEGRO) EN SACAS IMPERMEABLES INDEPENDIENTES PARA SU REUTILIZACIÓN O TRANSPORTE A VERTEDERO CONTROLADO (SEGÚN DETERMINACIÓN DEL DIRECTOR DE OBRA, ALMACENAMIENTO DE LOS ROLLOS DE CÉSPED ARTIFICIAL O TRANSPORTE A LUGAR DETERMINADO POR EL DIRECTOR DE OBRA), LIMPIEZA DE BARREDORA MECÁNICA DE LA CAPA DE SOPORTE (BASE ASFÁLTICA) Y EL TRANSPORTE A VERTEDERO DE ESCOMBROS Y MATERIAL RESIDUAL. MEDIDA LA SUPERFICIE EJECUTADA.			
		4,784.000	1.74	8,324.16
955.0005N1	t CARGA Y TRANSPORTE DEL CÉSPED VIEJO A VERTEDERO			
	CARGA Y TRANSPORTE A VERTEDERO AUTORIZADO DEL CÉSPED VIEJO QUE NO SE TENGA QUE REUTILIZAR.			
		11.580	42.15	488.10
955.0008N1	PA.IADESMONTAJE Y MONTAJE DE EQUIPOS DE RIEGO			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	PARTIDA ALZADA DE ABONO INTEGRO DE DESMONTAJE DE EQUIPOS DE RIEGO, TRASLADO A LUGAR DE ACOPIO DURANTE LA EJECUCIÓN DE LAS OBRAS Y MONTAJE EN UBICACIÓN DEFINITIVA.			
		1.000	10,000.00	10,000.00
	TOTAL APARTADO 09.6.1 TRABAJOS PREVIOS.....			21,064.09
	APARTADO 09.6.2 PAVIMENTACIÓN CÉSPED NUEVO			
955.0004N1	m² PAVIMENTO DE CÉSPED NUEVO			
	SUMINISTRO E INSTALACIÓN DE CÉSPED ARTIFICIAL TIPO FIELDTURF OPTIMUM 60 MM O SIMILAR. HILO MONOFILAMENTO CÓNCAVO MULTINERVADO EN SU TOTALIDAD (MÍNIMO 15 NEVIOS ASIMÉTRICOS) DE 12000 DTEX Y 240 MICRAS, DE ALTA RESISTENCIA Y 7559 PUNTADAS (+/- 10%). FIBRA CON TRATAMIENTO ANTI UVA RESISTENTE AL CALOR Y AL HIELO LASTRADA CON ARENA DE SÍLICE REDONDEADA, LIMPIA Y SECA DE GRANULOMETRÍA 0.3/0.8 EN UNA PROPORCIÓN DE 18 KG/M² (+/- 10 %) Y CAUCHO SBR NEGRO DE GRANULOMETRÍA 0.5-2.5 MM EN UN APROPORCIÓN DE 16 KG/M² (+/- 10%). HILO DE POLIETILENO TEJIDO SOBRE UN BACKING ESPECIALMENTE REFORZADO 100% POLIPROPILENO. PESO DE FIBRA: 1164 G/M² (+/- 10%) Y PESO TOTAL APROXIMADO DE 2324 G/M² (+/- 10%). SERVIDO EN ROLLOS DE 4 M DE ANCHO. MARCAJE DE LÍNEAS DE JUEGO DE FÚTBOL 11 EN EL MISMO MATERIAL EN COLOR BLANCO DE 10 CM DE ANCHO CUMPLIENDO LA REGLAMENTACIÓN DE LA R.F.E.F., CON LAS JUNTAS ENCOLADAS CON COLA DE POLIURETANO. PRODUCTO TESTADO EN LABORATORIO CONFORME CUMPLE LOS CRITERIOS FIFA 2*, SIN BASE ELÁSTICA. SE UTILIZARÁ MÁQUINA AUTOPROPULSADA, TIPO SMG-SANMATIC O SIMILAR, DE DOSIFICACIÓN AUTOMÁTICA Y CEPILLOS CONTRAORARIOS QUE PERMITAN EL DEPÓSITO EXACTO DE UNA DETERMINADA CANTIDAD DE RELLENO POR M², CON UN ESPESOR TOTAL DE 45 Y 50 MM. EN EL MARCAJE SE INCLUYEN LAS LÍNEAS DEL CAMPO Y LÍNEAS DE BANQUILLOS.			
		4,784.000	38.21	182,796.64
	TOTAL APARTADO 09.6.2 PAVIMENTACIÓN CÉSPED NUEVO			182,796.64

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 09.6.3 OBRAS DE URBANIZACIÓN			
570.0051N1	m	BORDILLO MONTABLE TIPO II 22 x 20 SUMINISTRO Y COLOCACIÓN DE BORDILLO MONTABLE DE HORMIGÓN PREFABRICADO 22 X 20 CM TIPO II, SOBRE BASE DE HORMIGÓN HM-20, INCLUSO MORTERO DE ASIENTO Y REJUNTADO.	103.500	15.69	1,623.92
571.0010N1	m²	PAVIMENTO LOSETA HIDRÁULICA PAVIMENTO CON LOSETA HIDRAÚLICA, TOTALMENTE TERMINADO.	103.500	50.62	5,239.17
		TOTAL APARTADO 09.6.3 OBRAS DE URBANIZACIÓN.....			6,863.09
		APARTADO 09.6.4 RED DE RIEGO			
417.0030	m	TUBO DE PVC DE DIÁMETRO 160 mm TUBO DE PVC DE DIÁMETRO 160MM SOBRE CAMA DE ARENA DE 10 CM DE ESPESOR , RELLENO CON ARENA HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO.HASTA 25 CM POR ENCIMA DEL TUBO CON P.P. DE MEDIOS AUXILIARES COLOCADO . SIN INCLUIR EXCAVACIÓN.	98.000	15.36	1,505.28
955.0006N1	u	CAÑÓN DE RIEGO SUMINISTRO E INSTALCIÓN DE CAÑÓN DE RIEGO SECTORIAL DE RETORNO LENTO, MOD. SR3003 DE RAIN-BIRD O SIMILAR, CON JUEGO DE 6 TOBERAS DE PLÁSTICO GNS-3003T (14, 16, 18, 20, 22, 24 MM), I/ RETIRADA DE CAÑONES VIEJOS, MATERIAL DIVERSO NECESARIO PARA LA INSTALACIÓN DE LOS CAÑONES NUEVOS, MANO DE OBRA Y MAQUINARIA NECESARIA. LOS CAÑONES VIEJOS SE ALMACENARÁN EN LA INSTALACIÓN DEPORTIVA.	1.000	1,607.78	1,607.78
955.0007N1	u	DEPÓSITO PREFABRICADO 4,90 x 2,45 x 2,12 TEHORJA SUMINISTRO Y COLOCACIÓN DE DEPÓSITO DE HORMIGÓN ARMADO PREFABRICADO DE 20 M³ CON UNAS DIMENSIONES DE 4,90 X 2,45 X 2,1 M (LARGO, ANCHO, ALTO), CON UN ESPESOR DE PARED DE 110 M, I/ TAPA DE HORMIGÓN ARMADO EN LA PARTE SUPERIOR CON REGISTRO PARA ACCESO. TOTALMENTE INSTALADO.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			1.000	7,280.46	7,280.46
		TOTAL APARTADO 09.6.4 RED DE RIEGO.....			10,393.52
		APARTADO 09.6.5 INTEGRACIÓN AMBIENTAL			
801.0070N2	m²	HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS HIDROSIEMBRA CON MEZCLA DE SEMILLAS HERBÁCEAS Y ARBUSTIVAS I/ PREPARACIÓN DE LA SUPERFICIE, ABONADO Y MANTENIMIENTO.	1,430.000	1.13	1,615.90
		TOTAL APARTADO 09.6.5 INTEGRACIÓN AMBIENTAL			1,615.90
		APARTADO 09.6.6 OBRAS COMPLEMENTARIAS			
915.0010	m	CERRAMIENTO COMPUESTO POR POSTES METÁLICOS Y MALLA DE ACERO GALVANIZADO SIMPLE TORSIÓN CERRAMIENTO DE 2 M DE ALTURA COMPUESTO POR POSTES METÁLICOS CADA 4 M, ARRIOSTRAMIENTO CADA 40 M Y MALLA DE ACERO GALVANIZADO ANUDADA CON DISTANCIA ENTRE LOS HILOS VERTICALES DE 15 CM Y DISTANCIA ENTRE LOS HORIZONTALES CON AUMENTO PROGRESIVO DESDE 5-15 CM EN LA PARTE INFERIOR HASTA 15- 20 CM EN LA SUPERIOR, CON MALLA DE ACERO GALVANIZADO DE REFUERZO TRIPLE TORSIÓN DE 1 M PARA PEQUEÑOS VERTEBRADOS ADOSADA EN LA BASE, ENTERRADAS 20 CM I/ PARTE PROPORCIONAL DE CIMIENTOS, TOTALMENTE COLOCADO. EXCEPTO PUERTAS	223.000	19.97	4,453.31
915.0020	ud	PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA PUERTA PARA CERRAMIENTO DE UNA HOJA, TOTALMENTE COLOCADA.	1.000	247.27	247.27
1102.0050	m	BÁCULO TRONCOCONICO DE ACERO GALVANIZADO DE 12 M DE ALTURA PARA SOPORTE DE LUMINARIA SUMINISTRO Y MONTAJE DE CABLE DE 2 PARES TRENZADOS DE CALIBRE 2X2,5 MM2 CON BLINDAJE DE COBRE ESTAÑADO, COBERTURA >65%. RESISTENCIA>120 OHMIOS /KM, IMPEDANCIA CARACTERÍSTICA DE 100-120 OHMIOS. CAPACIDAD ELÉCTRICA ENTRE CONDUCTORES <60 PF/M . CONDUCTOR Y BLINDAJE <100PF/M. NO PROPAGADOR DE LLAMA NI INCENDIO, LIBRE DE HALÓGENO, BAJA EMISIÓN			

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	DE HUMOS OPACOS Y BAJA CORROSIVIDAD. INCLUYE ROTULACIÓN Y TODOS LOS TRABAJOS, MATERIALES Y MEDIOS AUXILIARES PARA DEJAR LA UNIDAD TOTALMENTE INSTALADA PROBADA EN PERFECTO ESTADO DE FUNCIONAMIENTO SEGÚN PLANOS Y DEMÁS DOCUMENTOS DEL PROYECTO, INDICACIONES DE LA DF Y NORMATIVA VIGENTE.			
		1.000	790.87	790.87
	TOTAL APARTADO 09.6.6 OBRAS COMPLEMENTARIAS.....			5,491.45
	TOTAL SUBCAPÍTULO 09.6 CENTRO DEPORTIVO AS EIROAS			228,224.69
	TOTAL CAPÍTULO 09 REPOSICIÓN DE SERVICIOS Y SERVIDUMBRES.....			1,754,039.61

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 10 SEGUIMIENTO GEOTÉCNICO Y AUSCULTACIÓN			
		SUBCAPÍTULO 10.1 INVESTIGACIÓN Y SEGUIMIENTO GEOTÉCNICO DE LAS OBRAS			
306.0060	m	PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS Ø < 120 mm CON EXTRACCIÓN CONTINUA DE TESTIGO PERFORACIÓN A ROTACIÓN EN RELLENOS O SUELOS, CON DIÁMETROS COMERCIALES Ø<120MM CON EXTRACCIÓN CONTINUA DE TESTIGO I/ SUMINISTRO DE AGUA Y TESTIFICACIÓN IN SITU POR TÉCNICO COMPETENTE.	85.000	55.00	4,675.00
306.0290	m	PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, Y ENSAYO BORRO PENETRACIÓN DINÁMICA TIPO DPL, DPM, DPH Y DPSH, SEGÚN UNEENISO22476-2, Y ENSAYO BORRO, SEGÚN UNE 103809, A CUALQUIER PROFUNDIDAD.	1.000	22.00	22.00
306.0320	ud	CALICATA MANUAL O MECÁNICA CALICATA MANUAL O MECÁNICA, INCLUSO FOTOGRAFÍAS EN COLOR Y REPOSICIÓN, I/ TESTIFICACIÓN "IN SITU" A CARGO DE TÉCNICO EXPERTO.	1.000	125.00	125.00
306.0280N1	ud	REGISTRADOR ELECTRÓNICO DE VARIACIONES NIVEL DE AGUA REGISTRADOR ELECTRÓNICO Y AUTÓNOMO PARA MEDIDA DE LAS VARIACIONES PRESIÓN ATMOSFÉRICA Y COMPENSACIÓN EN LAS MEDIDAS DE VARIACIONES DE NIVEL DE AGUA, INCLUSO SUMINISTRO E INSTALACIÓN, INCLUIDO CABLE DE ACERO INOXIDABLE TRENZADO DE 2 MM DE DIÁMETRO PARA REGISTRADOR DE PRESIÓN, ACCESORIOS NECESARIOS Y CAMPAÑA DE RECOGIDA DE DATOS EN CAMPO, INCLUSO LECTURA, DESCARGA Y PROGRAMACIÓN DE REGISTRADORES DE NIVEL EN SONDEOS Y REDACCIÓN DE NOTA TÉCNICA CORRESPONDIENTE.	5.000	1,800.53	9,002.65
		TOTAL SUBCAPÍTULO 10.1 INVESTIGACIÓN Y SEGUIMIENTO GEOTÉCNICO DE LAS OBRAS...			13,824.65

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBCAPÍTULO 10.2 AUSCULTACIÓN Y CONTROL DE OBRAS DE TIERRA Y CIMENTACIONES			
		APARTADO 10.2.1 MURO DE ESCOLLERA PIE DE RELLENO			
306.0230	m	TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75 mm TUBERÍA INCLINOMÉTRICA DE ALUMINIO Ø >= 75MM I/ LA PARTE PROPORCIONAL DE TAPÓN DE FONDO Y TAPA CON CANDADO.	15.000	33.00	495.00
306.0250	ud	INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO INSTALACIÓN DE TUBERÍA INCLINOMÉTRICA EN SONDEO I/ LOS TRABAJOS DE SELLADO DE UNIONES, INYECCIÓN DE LECHADA Y MOJÓN EN EMBOCADURA.	1.000	600.00	600.00
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.	1.000	104.56	104.56
920.0022N1	ud	BASE DE COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS BASE PARA COLIMACIÓN DE ALUMINIO PARA EL CONTROL TOPOGRÁFICO DE MOVIMIENTOS	1.000	264.08	264.08
		TOTAL APARTADO 10.2.1 MURO DE ESCOLLERA PIE DE RELLENO			1,463.64

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 10.2.2 ESTRUCTURAS			
		SUBAPARTADO 10.2.3.1 PERGOLA			
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.	16.000	104.56	1,672.96
306.1320N1	ud	PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.	6.000	170.64	1,023.84
306.1330N1	m	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.	60.000	26.66	1,599.60
306.1301N1	ud	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS	2.000	214.61	429.22
		TOTAL SUBAPARTADO 10.2.3.1 PERGOLA.....			4,725.62

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 10.2.3.2 P.S. 2.1			
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS			
		HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.			
			4.000	104.56	418.24
306.1320N1	ud	PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE			
		PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.			
			2.000	170.64	341.28
306.1330N1	m	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL			
		VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.			
			14.000	26.66	373.24
306.1301N1	ud	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS			
		HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS			
			2.000	214.61	429.22
		TOTAL SUBAPARTADO 10.2.3.2 P.S. 2.1			1,561.98

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 10.2.3.3 P.S. 3.4			
306.1300N1	ud	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS			
		HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.			
			8.000	104.56	836.48
306.1320N1	ud	PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE			
		PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.			
			2.000	170.64	341.28
306.1330N1	m	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL			
		VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.			
			10.000	26.66	266.60
342.0200	m	BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 mm DE DIÁMETRO			
		BULÓN DE ANCLAJE PASIVO PARA PROTECCIÓN DE TALUDES CON BARRA DE ACERO CORRUGADO B 500 B O B 500 C DE 25 MM DE DIÁMETRO, CON ANCLAJE CONTINUO MEDIANTE RESINA O MORTERO I/ PERFORACIÓN, SUMINISTRO DE MATERIALES, PLACA, TUERCA, COLOCACIÓN Y DEMÁS OPERACIONES NECESARIAS.			
			63.000	27.21	1,714.23
306.1301N1	ud	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS			
		HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS			
			2.000	214.61	429.22
		TOTAL SUBAPARTADO 10.2.3.3 P.S. 3.4			3,587.81

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 10.2.3.4 P.S. 4.8			
306.1300N1	ud HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 x 30 x 30 cm CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTOS			
	HITO DE NIVELACIÓN DE HORMIGÓN HM-20 DE 30 X 30 X 30 CM CON CLAVO PARA EL CONTROL TOPOGRÁFICO DE ASIENTO.			
		8.000	104.56	836.48
306.1320N1	ud PLACA DE ASIENTO, CON UN METRO DE VARILLA,TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REF. TOP. INOXIDABLE			
	PLACA DE ASIENTO, CON UN METRO DE VARILLA, TUBERÍA DE PROTECCIÓN DE PVC U HORMIGÓN Y REFERENCIA TOPOGRÁFICA INOXIDABLE.			
		2.000	170.64	341.28
306.1330N1	m VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO i/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL			
	VARILLA DE ACERO PARA RECRECIDO DE PLACA DE ASIENTO I/ P.P. DE MANGUITOS DE UNIÓN EN TÚNEL.			
		24.000	26.66	639.84
306.1301N1	ud HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN i/ ARQUETA METÁLICA CON TAPAS			
	HITO DE CONTROL TOPOGRÁFICO EN ACERO INOXIDABLE PARA MEDICIONES DE PRECISIÓN I/ ARQUETA METÁLICA CON TAPAS			
		2.000	214.61	429.22
	TOTAL SUBAPARTADO 10.2.3.4 P.S. 4.8			2,246.82

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	SUBAPARTADO 10.2.3.5 INFORME TRIMESTRAL CONTROL DE ASIENTOS			
695.0110N1	Ud AUSCULTACIÓN E INFORME DE MEDICIONES			
	AUSCULTACIÓN E INFORME DE MEDICIONES OBTENIDAS			
		10.000	1,809.71	18,097.10
	TOTAL SUBAPARTADO 10.2.3.5 INFORME TRIMESTRAL CONTROL DE ASIENTOS.....			18,097.10
	TOTAL APARTADO 10.2.2 ESTRUCTURAS.....			30,219.33
	TOTAL SUBCAPÍTULO 10.2 AUSCULTACIÓN Y CONTROL DE OBRAS DE TIERRA Y			31,682.97
	TOTAL CAPÍTULO 10 SEGUIMIENTO GEOTÉCNICO Y AUSCULTACIÓN.....			45,507.62

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 11 CONEXIÓN FINAL PROVISIONAL CON EL VIARIO EXISTENTE			
		SUBCAPÍTULO 11.1 MOVIMIENTO DE TIERRAS			
		APARTADO 11.1.1 TRABAJOS PRELIMINARES			
301.0040	m²	DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DEMOLICIÓN DE FIRME O PAVIMENTO EXISTENTE DE CUALQUIER TIPO O ESPESOR I/ BAJAS POR RENDIMIENTO POR PASO DE VEHÍCULOS, DEMOLICIÓN DE ACERAS, ISLETAS, BORDILLOS Y TODA CLASE DE PIEZAS ESPECIALES DE PAVIMENTACIÓN, DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	6,400.000	3.90	24,960.00
301.0020	m³	DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO DEMOLICIÓN DE FÁBRICA HORMIGÓN ARMADO I/ DESESCOMBRO, CARGA Y TRANSPORTE DE MATERIAL DEMOLIDO A GESTOR AUTORIZADO HASTA UNA DISTANCIA DE 60 KM.	2,962.400	33.07	97,966.57
		TOTAL APARTADO 11.1.1 TRABAJOS PRELIMINARES.....			122,926.57
		APARTADO 11.1.2 MOVIMIENTO DE TIERRAS			
320.0010	m³	EXCAVACIÓN DE TIERRA VEGETAL EXCAVACIÓN DE TIERRA VEGETAL I/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O ACOPIO DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA, DEPOSITO DE TIERRA VEGETAL EN ZONA ADECUADA PARA SU REUTILIZACIÓN Y ACONDICIONAMIENTO Y MANTENIMIENTO DE ACOPIOS, FORMACIÓN Y MANTENIMIENTO DE LOS CABALLEROS.	12,628.500	2.50	31,571.25
320.0020N1	m³	EXCAVACIÓN EN DESMONTE SIN CLASIFICAR i/ CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 km EXCAVACIÓN EN DESMONTE SIN CLASIFICAR, INCLUSO AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, FORMACIÓN, Y PERFILADO DE CUNETAS, REFINO DE TALUDES I/CARGA Y TRANSPORTE A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.	19,723.900	4.25	83,826.58

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
330.0020	m³	TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN TERRAPLÉN O PEDRAPLÉN O RELLENO TODO-UNO CON MATERIALES PROCEDENTES DE LA EXCAVACIÓN, I/ EXTENDIDO, HUMECTACIÓN, NIVELACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE TALUDES TOTALMENTE TERMINADO. (EN CASO DE QUE LOS MATERIALES SEAN PROVISTOS POR LA ADMINISTRACIÓN, SE PAGARÁ, SI PROCEDE, EL SUPLEMENTO DE TRANSPORTE POR LA DISTANCIA ADICIONAL).	7,357.200	1.10	8,092.92
330.0050	m³	SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA SUELO SELECCIONADO PROCEDENTE DE PRÉSTAMO PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE I/ CANON DE CANTERA, EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO HASTA UNA DISTANCIA DE 5 KM, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.	4,981.400	6.74	33,574.64
202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA	344.260	106.00	36,491.56
512.0110	m³	SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA SUELO ESTABILIZADO "IN SITU" CON CEMENTO, TIPO S-EST3 CON TIERRAS DE LA PROPIA OBRA, FORMACIÓN DE LA EXPLANADA, EXTENDIDO Y COMPACTADO, HUMECTACIÓN O SECADO Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, TOTALMENTE TERMINADO, SIN INCLUIR CONGLOMERANTE.	5,296.300	5.53	29,288.54
		TOTAL APARTADO 11.1.2 MOVIMIENTO DE TIERRAS			222,845.49
		TOTAL SUBCAPÍTULO 11.1 MOVIMIENTO DE TIERRAS.....			345,772.06

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBCAPÍTULO 11.2 ESTRUCTURA			
		APARTADO 11.2.1 FALSO TÚNEL 1 - ENLACE A CASILLA			
		SUBAPARTADO 11.2.1.1 Estribos			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			20,976.790	6.70	140,544.49
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			19,467.880	3.47	67,553.54
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			202.520	66.48	13,463.53
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			167.400	99.75	16,698.15
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EJECUCIÓN.			
			4,768.640	28.44	135,620.12
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			1,362.190	109.05	148,546.82
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			3,890.900	33.91	131,940.42
610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			1,173.940	116.89	137,221.85
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			289,546.800	1.81	524,079.71
690.0050	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON LÁMINA ASFÁLTICA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIO-			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		NES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFORADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.			
			2,354.900	29.17	68,692.43
805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.			
			2,354.900	12.30	28,965.27
		TOTAL SUBAPARTADO 11.2.1.1 Estribos			1,413,326.33
		SUBAPARTADO 11.2.1.2 Pilas			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			2,458.300	6.70	16,470.61
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1,864.300	3.47	6,469.12
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			54.000	66.48	3,589.92
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			273.900	28.44	7,789.72
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			594.000	109.05	64,775.70
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			644.110	44.95	28,952.74
610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			127.800	116.89	14,938.54
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			77,328.000	1.81	139,963.68
		TOTAL SUBAPARTADO 11.2.1.2 Pilas.....			282,950.03

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 11.2.1.3 Tablero			
681.0010	m³	CIMBRA CUAJADA CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			17,160.000	12.21	209,523.60
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			3,172.000	33.91	107,562.52
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			240.000	28.44	6,825.60
601.0010	kg	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.			
			50,400.000	4.91	247,464.00
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			386,400.000	1.81	699,384.00
610.0150	m³	HORMIGÓN PARA PRETENSAR C40/50 HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.			
			3,360.000	142.72	479,539.20
690.0021	m²	IMPERMEABILIZACIÓN DE TABLEROS DE PUENTES CON LÁMINA SBS EN SISTEMA MONOCAPA IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIEZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.			
			3,360.000	23.66	79,497.60
695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS			
			1.000	3,324.72	3,324.72
695.0120	día	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA			
			1.000	465.47	465.47
695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M			
			1.000	3,533.06	3,533.06
		TOTAL SUBAPARTADO 11.2.1.3 Tablero			1,837,119.77
		TOTAL APARTADO 11.2.1 FALSO TÚNEL 1 - ENLACE A CASILLA			3,533,396.13

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		APARTADO 11.2.2 FALSO TÚNEL 2 - ENLACE A CASILLA			
		SUBAPARTADO 11.2.2.1 Estribos			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO			
		EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			14,278.080	6.70	95,663.14
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
		RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			13,002.660	3.47	45,119.23
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA			
		HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			
			233.330	66.48	15,511.78
610.0030	m³	HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C25/30 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			330.000	99.75	32,917.50
680.0010	m²	ENCOFRADO OCULTO PLANO			
		ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			4,407.390	28.44	125,346.17
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS			
		HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			1,152.090	109.05	125,635.41
680.0030	m²	ENCOFRADO VISTO PLANO			
		ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			3,649.000	33.91	123,737.59
610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS			
		HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			1,077.950	116.89	126,001.58
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS			
		ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			274,162.700	1.81	496,234.49
690.0050	m²	IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS CON LÁMINA ASFÁLTICA			
		IMPERMEABILIZACIÓN DE PARAMENTOS ENTERRADOS (MUROS, ESTRIBOS, ALETAS?) CON LÁMINA ASFÁLTICA. CONSTITUÍDA POR: IMPRIMACIÓN ASFÁLTICA, MÍNIMO 0,5 KG/M², BANDA DE REFUERZO ASFÁLTICA COLOCADA EN TODOS LOS ÁNGULOS ADHERIDA CON SOPLETE AL SOPORTE PREVIAMENTE IMPRIMADO (SOLAPES DE 8 CM MÍNIMO); LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO ADHERIDA AL SOPORTE CON SOPLETE, LÁMINA DRENANTE FIJADA MECÁNICAMENTE AL SOPORTE (MEDIANTE DISPAROS O FIJACIONES), TUBERÍA DE DRENAJE CORRUGADA Y FLEXIBLE PERFO-

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		RADA, RELLENO GRANULAR ENVUELTO EN GEOTEXTIL. LISTA PARA VERTER TIERRAS.			
			2,149.000	29.17	62,686.33
805.0013N1	m²	LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD LÁMINA NODULAR DE POLIETILENO DE ALTA DENSIDAD DE 8 M DE ALTURA DE NÓDULO Y 500 GR/M² EN IMPERMEABILIZACIÓN PRINCIPAL DE FILTRACIONES I/ SUMINISTRO, MONTAJE, CARRO O ANDAMIO DE MONTAJE, ANCLAJE AL PARAMENTO, UNIÓN ENTRE PANELES Y ENSAYOS DE COMPROBACIÓN DE ESTANQUEIDAD.			
			2,149.000	12.30	26,432.70
		TOTAL SUBAPARTADO 11.2.2.1 Estribos			1,275,285.92
		SUBAPARTADO 11.2.2.2 Pilas			
321.0010	m³	EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO EXCAVACIÓN MECÁNICA DE ZANJAS, POZOS O CIMIENTOS EN TIERRA O TRÁNSITO, CONSIDERÁNDOSE ZANJAS Y CIMIENTOS AQUELLOS QUE TENGAN UNA ANCHURA < 3 M Y UNA PROFUNDIDAD< 6 M, Y POZOS LOS QUE TENGAN UNA PROFUNDIDAD < 2 VECES EL DIÁMETRO O ANCHO I/ ENTIBACIÓN, AGOTAMIENTO Y DRENAJE DURANTE LA EJECUCIÓN, SANEO DE DESPRENDIMIENTOS, CARGA Y TRANSPORTE A LUGAR DE EMPLEO O A VERTEDERO HASTA UNA DISTANCIA DE 5 KM O AL LUGAR DE UTILIZACIÓN DENTRO DE LA OBRA SEA CUAL SEA LA DISTANCIA.			
			2,055.300	6.70	13,770.51
332.0040	m³	RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA RELLENO LOCALIZADO EN ZANJAS, POZOS Y CIMIENTOS CON MATERIAL PROCEDENTE DE LA TRAZA I/ EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES (EN SU CASO).			
			1,560.300	3.47	5,414.24
610.0010	m³	HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA HORMIGÓN DE LIMPIEZA C12/15 EN CIMIENTOS DE SOLERAS Y DE PEQUEÑAS OBRAS DE FÁBRICA PUESTO EN OBRA.			

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			45.000	66.48	2,991.60
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			229.900	28.44	6,538.36
610.0060	m³	HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS HORMIGÓN C30/37 EN CIMENTACIONES, PILOTES, PANTALLAS, ENCEPADOS Y ACERAS.			
			495.000	109.05	53,979.75
680.0040	m²	ENCOFRADO VISTO CURVO ENCOFRADO PARA PARAMENTOS VISTOS CURVOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			530.940	44.95	23,865.75
610.0100	m³	HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS HORMIGÓN C35/45 EN ALZADOS DE PILAS, ESTRIBOS, CABECEROS, VIGAS, TABLEROS, LOSAS, MUROS Y MARCOS.			
			107.880	116.89	12,610.09
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			
			64,729.800	1.81	117,160.94
		TOTAL SUBAPARTADO 11.2.2.2 Pilas.....			236,331.24

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		SUBAPARTADO 11.2.2.3 Tablero			
681.0010	m³	CIMBRA CUAJADA CIMBRA CUAJADA I/ PROYECTO, PREPARACIÓN DE LA SUPERFICIE DE APOYO, NIVELACIÓN Y APUNTALAMIENTO DE LA CIMBRA, PRUEBAS DE CARGA, TRANSPORTES, MONTAJE Y DESMONTAJE, TOTALMENTE TERMINADA Y MONTADA.			
			14,300.000	12.21	174,603.00
680.0030	m²	ENCOFRADO VISTO PLANO ENCOFRADO PARA PARAMENTOS VISTOS PLANOS Y POSTERIOR DESENCOFRADO, EJECUTADO CON MADERA MACHIHEMBRADA I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			2,656.000	33.91	90,064.96
680.0010	m²	ENCOFRADO OCULTO PLANO ENCOFRADO PARA PARAMENTOS OCULTOS PLANOS Y POSTERIOR DESENCOFRADO I/ LIMPIEZA, HUMEDECIDO, APLICACIÓN DE DESENCOFRANTE, P.P. DE ELEMENTOS COMPLEMENTARIOS PARA SU ESTABILIDAD Y ADECUADA EJECUCIÓN.			
			200.000	28.44	5,688.00
601.0010	kg	ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL ACERO ESPECIAL Y 1860 S7 EN CORDONES PARA PRETENSAR DE 16,7 MM DE DIÁMETRO NOMINAL, I/ VAINAS Y TODOS LOS ACCESORIOS NECESARIOS, LOS ANCLAJES ACTIVO Y PASIVO, ACOPLADORES, TODAS LAS OPERACIONES Y EQUIPOS DE TESADO, LAS OPERACIONES Y EQUIPOS DE INYECCIÓN, EL SELLADO DE CAJETINES.			
			42,000.000	4.91	206,220.00
600.0010	kg	ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS ACERO EN BARRAS CORRUGADAS B 500 B O B 500 C, CON CARACTERÍSTICAS DE DUCTILIDAD MEJORADAS, COLOCADO EN ARMADURAS PASIVAS, I/ CORTE Y DOBLADO, COLOCACIÓN SOLAPES, DESPUNTES Y P.P. DE ATADO CON ALAMBRE RECOCIDO Y SEPARADORES.			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			322,000.000	1.81	582,820.00
610.0150	m³	HORMIGÓN PARA PRETENSAR C40/50 HORMIGÓN PARA PRETENSAR C40/50, VIBRADO Y CURADO, TOTALMENTE COLOCADO.			
			2,800.000	142.72	399,616.00
690.0021	m²	IMPERMEABILIZACIÓN DE TABLEROS DE PUENTES CON LÁMINA SBS EN SISTEMA MONOCAPA IMPERMEABILIZACIÓN DEL TABLERO MEDIANTE LÁMINA ASFÁLTICA DE BETÚN ELASTÓMERO SBS EN SISTEMA MONOCAPA, AUTOPROTEGIDA CON GRÁNULOS CERÁMICOS, DE 6 KG/M2 DE MASA NOMINAL, TOTALMENTE ADHERIDA AL SOPORTE CON SOPLETE, INCLUSO PREPARACIÓN Y LIMPIEZA PREVIA DEL SOPORTE, SOLAPES Y PRUEBAS DE ESTANQUEIDAD. TOTALMENTE TERMINADA.			
			2,600.000	23.66	61,516.00
695.0020	ud	REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" EN PUENTE HIPERESTÁTICO REDACCIÓN DE "PROYECTO E INFORME DE PRUEBA DE CARGA" DESCRIBIENDO LOS MEDIOS EMPLEADOS Y LOS RESULTADOS OBTENIDOS I/ LA REALIZACIÓN DE LOS CÁLCULOS Y LA DEFINICIÓN DE LOS PLANOS QUE SE CONSIDERE NECESARIO, EN PUENTES HIPERESTÁTICOS			
			1.000	3,324.72	3,324.72
695.0120	día	PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA PUESTA A DISPOSICIÓN Y PRESTACIÓN DE SERVICIO DE VEHÍCULO DE SUMINISTRO DE CARGA			
			1.000	465.47	465.47
695.0080	ud	REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 m REALIZACIÓN DE PRUEBA DE CARGA EN PUENTE HIPERESTÁTICO DE HASTA 4 VANOS DE LUZ MÁXIMA <= 40 M			
			1.000	3,533.06	3,533.06
		TOTAL SUBAPARTADO 11.2.2.3 Tablero			1,527,851.21
		TOTAL APARTADO 11.2.2 FALSO TÚNEL 2 - ENLACE A CASILLA			3,039,468.37

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	TOTAL SUBCAPÍTULO 11.2 ESTRUCTURA.....			6,572,864.50
	SUBCAPÍTULO 11.3 REPOSICIÓN DE SERVICIOS			
	APARTADO 11.3.1 LÍNEAS ELÉCTRICAS			
998.0003N2	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE REE EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE REE, SEGÚN VALORACIÓN DE PROYECTO	1.000	395,500.00	395,500.00
998.0001N2	PA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS ELÉCTRICAS, PROPIEDAD DE UNIÓN FENOSA, SEGÚN VALORACIÓN DE PROYECTO	1.000	5,452.80	5,452.80
	TOTAL APARTADO 11.3.1 LÍNEAS ELÉCTRICAS.....			400,952.80
	APARTADO 11.3.2 LÍNEAS TELEFÓNICAS			
998.0002N2	PA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA EN CONEXIÓN FINAL, SEGÚN VALORACIÓN DE PROYECTO PARTIDA ALZADA PARA REPOSICIÓN DE LÍNEAS DE TELÉFONO, PROPIEDAD DE TELEFÓNICA, SEGÚN VALORACIÓN DE PROYECTO. SE APLICA LA ORDEN CIRCULAR Nº 276/S.G. DE 1979 SOBRE RELACIONES CON LA COMPAÑÍA TELEFÓNICA NACIONAL DE ESPAÑA, POR LA CUAL EL MINISTERIO DE FOMENTO SE HARÁ CARGO DEL 50% DE LA VALORACIÓN DE LAS REPOSICIONES TELEFÓNICAS Y TELEFÓNICA DEL 50% RESTANTE.	0.500	15,095.44	7,547.72
	TOTAL APARTADO 11.3.2 LÍNEAS TELEFÓNICAS.....			7,547.72

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	APARTADO 11.3.3 ABASTECIMIENTO DE AGUA			
	SUBAPARTADO 11.3.3.1 SERVIDUMBRE 05.018			
320.0091N1	m EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 300 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 300 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME	65.000	60.08	3,905.20
930.0001N1	m TUBERÍA DE FUNDICIÓN DÚCTIL Ø 150 mm TUBERÍA DE FUNDICIÓN DÚCTIL Ø = 150 MM, SOBRE CAMA DE ARENA, INCLUSO EXCAVACIÓN, RELLENO, PIEZAS ESPECIALES Y PRUEBAS DE FUNCIONAMIENTO	66.000	116.59	7,694.94
	TOTAL SUBAPARTADO 11.3.3.1 SERVIDUMBRE 05.018.....			11,600.14
	TOTAL APARTADO 11.3.3 ABASTECIMIENTO DE AGUA.....			11,600.14
	APARTADO 11.3.4 SANEAMIENTO			
	SUBAPARTADO 11.3.4.1 SERVICIO 06.014			
301.0133N1	m LEVANTAMIENTO DE POZO Y/O ARQUETA EXISTENTE LEVANTAMIENTO DE CERCO, TAPA Y REJILLA DE POZO ABSORBEDERO EXISTENTE CON TRANSPORTE DE LOS MATERIALES A VERTEDERO Y/O ALMACÉN, DEMOLICIÓN Y/O RECRECIDO DE POZO EXISTENTE CON COLOCACIÓN DE NUEVO CERCO Y TAPA DE REGISTRO DE FUNDICIÓN Y CLASE P-400 PARA CALZADA.	3.000	316.86	950.58
410.0047N1	ud POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS POZO DE REGISTRO DE FÁBRICA DE LADRILLO MACIZO O MÓDULOS PREFABRICADOS SEGÚN PLANOS, I/ EXCAVACIÓN, INSTALACIÓN DE PATES, CERCO Y TAPA DE FUNDICIÓN, COLOCACIÓN DE TUBERÍA DE CONEXIÓN Y RELLENO DE TRASDÓS, TOTALMENTE TERMINADO.	6.000	726.46	4,358.76
932.0006N1	m TUBERÍA DE PVC DE Ø 400 mm TUBERÍA DE PVC DE Ø 400 MM			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
			195.000	242.64	47,314.80
320.0092N1	m	EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR HASTA Ø 900 mm EXCAVACIÓN Y LEVANTAMIENTO DE COLECTOR EXISTENTE HASTA Ø 900 MM COMO MÁXIMO Y PROFUNDIDAD MÁXIMA DE EXCAVACIÓN DE 1,0 M, TRANSPORTE DE MATERIAL A VERTEDERO Y POSTERIOR RELLENO CON MATERIALES ADECUADOS HASTA CAPA DE FIRME			
			215.000	120.16	25,834.40
		TOTAL SUBAPARTADO 11.3.4.1 SERVICIO 06.014			78,458.54
		TOTAL APARTADO 11.3.4 SANEAMIENTO			78,458.54
		TOTAL SUBCAPÍTULO 11.3 REPOSICIÓN DE SERVICIOS			498,559.20
		SUBCAPÍTULO 11.4 FIRMES			
211.0020	t	BETÚN ASFÁLTICO CONVENCIONAL TIPO 50/70 BETÚN ASFÁLTICO CONVENCIONAL EN MEZCLAS BITUMINOSAS TIPO 50/70			
			160.460	689.00	110,556.94
215.0020	t	BETÚN MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) TIPO PMB 45/80-60 BETÚN PMB 45/80-60 MODIFICADO CON POLÍMEROS (CON O SIN CAUCHO) PARA MEZCLAS BITUMINOSAS, A PIE DE OBRA O PLANTA.			
			37.510	773.80	29,025.24
542.0110	t	CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN CARBONATO EMPLEADO COMO POLVO MINERAL DE APORTACIÓN, PUESTO A PIE DE OBRA O PLANTA.			
			212.150	59.86	12,699.30
543.0020	m²	MBC TIPO BBTM 11B EN CAPA DE RODADURA, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO BBTM 11B EN CAPA DE RODADURA, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN, CON UN ESPESOR DE 3 CM.			
			12,003.330	2.68	32,168.92

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
542.0050	t	MBC TIPO AC22 BIN S, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC22 BIN S, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			1,670.090	29.35	49,017.14
542.0100	t	MBC TIPO AC32 BASE G, EXCEPTO BETÚN Y POLVO MINERAL MEZCLA BITUMINOSA EN CALIENTE TIPO AC32 BASE G, EXTENDIDA Y COMPACTADA, EXCEPTO BETÚN Y POLVO MINERAL DE APORTACIÓN.			
			2,341.560	29.38	68,795.03
513.0010	m³	SUELO-CEMENTO FABRICADO EN CENTRAL CON MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA SUELO-CEMENTO FABRICADO EN CENTRAL I/ TRANSPORTE, EXTENDIDO, COMPACTACIÓN, PREFISURACIÓN Y PREPARACIÓN DE LA SUPERFICIE DE ASIENTO, SIN INCLUIR CEMENTO NI RIEGO DE CURADO. EMPLEANDO MATERIAL GRANULAR PROCEDENTE DE LA EXCAVACIÓN DE LA TRAZA			
			2,590.800	16.45	42,618.66
202.0030	t	CEMENTO PARA ESTABILIZACIÓN DE SUELOS, SUELOCEMENTO O GRAVACEMENTO CEMENTO PARA ESTABILIZACIÓN DE SUELOS Y FABRICACIÓN DE SUELOCEMENTO O GRAVACEMENTO, PUESTO A PIE DE OBRA			
			259.080	106.00	27,462.48
213.0040	t	EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA EMULSIÓN TERMOADHERENTE MODIFICADA TIPO C60BP3 TER PARA RIEGOS DE ADHERENCIA.			
			9.820	682.46	6,701.76
213.0020	t	EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA EMULSIÓN TERMOADHERENTE TIPO C60B3 TER PARA RIEGOS DE ADHERENCIA.			
			14.460	582.59	8,424.25
531.0020	t	EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		EN RIEGOS DE CURADO EMULSIÓN C60B3 ADH EN RIEGOS DE ADHERENCIA O C60B3 CUR EN RIEGOS DE CURADO I/ EL BARRIDO Y LA PREPARACIÓN DE LA SUPERFICIE, TOTALMENTE TERMINADO.			
			15.060	624.16	9,399.85
530.0010	t	ÁRIDO EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO ÁRIDO DE COBERTURA EMPLEADO EN RIEGOS DE IMPRIMACIÓN O DE CURADO I/ LA EXTENSIÓN, COMPACTACIÓN Y BARRIDO, TOTALMENTE TERMINADO.			
			225.970	18.29	4,132.99
330.0040N1	m³	SUELO ADECUADO DE LA EXCAVACIÓN SUELO ADECUADO PROCEDENTE DE LA PROPIA EXCAVACIÓN PARA FORMACIÓN DE EXPLANADA EN CORONACIÓN DE TERRAPLÉN Y EN FONDO DE DESMONTE, INCLUSO EXCAVACIÓN DEL MATERIAL, CARGA Y TRANSPORTE AL LUGAR DE EMPLEO A CUALQUIER DISTANCIA, EXTENDIDO, HUMECTACIÓN, COMPACTACIÓN, TERMINACIÓN Y REFINO DE LA SUPERFICIE DE LA CORONACIÓN Y REFINO DE TALUDES.			
			738.700	3.20	2,363.84
		TOTAL SUBCAPÍTULO 11.4 FIRMES			403,366.40
		SUBCAPÍTULO 11.5 SEÑALIZACIÓN Y DEFENSAS			
700.0010	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 10 cm MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 10 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			330.000	0.54	178.20
700.0020	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 15 cm MARCA VIAL DE TIPO II (RW), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 15 CM DE ANCHO SIN RESALTES I/ LIMPIEZA Y PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			650.000	0.71	461.50

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
700.0035N2	m	MARCA VIAL BLANCA REFLECTANTE, TERMOPLÁSTICA EN CALIENTE, ANCHO 40 cm MARCA VIAL DE TIPO II (RR), DE PINTURA BLANCA REFLECTANTE, TIPO TERMOPLÁSTICA EN CALIENTE, DE 40 CM DE ANCHO I/ PREPARACIÓN DE LA SUPERFICIE Y PREMARCAJE (MEDIDA LA LONGITUD REALMENTE PINTADA).			
			50.000	1.57	78.50
700.0145N1	m²	MARCA VIAL EN SUPERFICIES, TERMOPLÁSTICA EN CALIENTE MARCA VIAL REFLEXIVA REALMENTE PINTADA, TIPO TERMOPLÁSTICA EN CALIENTE, EN FLECHAS, RÓTULOS Y ZONAS CEBREADAS, I/ LIMPIEZA DEL FIRME, COMPLETAMENTE TERMINADO.			
			7.150	12.90	92.24
701.0080	ud	SEÑAL CIRCULAR DE 90 cm DE DIÁMETRO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL CIRCULAR DE 90 CM DE DIÁMETRO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			9.000	217.32	1,955.88
701.0040	ud	SEÑAL TRIANGULAR DE 135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA2 SEÑAL TRIANGULAR DE 135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA2, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			6.000	234.67	1,408.02
704.0053N1	m	BARRERA DE HORMIGÓN SIMPLE DB 80 AS-A (H2, W1) BARRERA DE SEGURIDAD SIMPLE DE HORMIGÓN, CON NIVEL DE CONTENCIÓN H2, ANCHURA DE TRABAJO W1, DEFLEXIÓN DINÁMICA 0,00 M O INFERIOR, ÍNDICE DE SEVERIDAD B I/ CAPTAFAROS, TOTALMENTE INSTALADA. NOTA: SE MEDIRÁ LA TRANSICIÓN O ABATIMIENTO COMO LONGITUD DE BARRERA (INCLUIR EN PPTP).			
			180.000	107.09	19,276.20
701.0270	m²	PANEL EN LAMAS DE ACERO GALVANIZADO CLASE RA2			

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		PANEL EN LAMAS DE ACERO GALVANIZADO RETRORREFLECTANTE CLASE RA2 I/ PARTE PROPORCIONAL DE POSTES, EXCAVACIÓN Y HORMIGONADO DE CIMIENTOS, TOTALMENTE COLOCADO Y TRANSPORTE A LUGAR DE EMPLEO.			
			36.880	398.01	14,678.61
703.0080	ud	PANEL DIRECCIONAL DE 160X40 cm, DE CLASE RA2			
		PANEL DIRECCIONAL DE 160X40 CM Y RETRORREFLACTANCIA CLASE RA2 I/ TORNILLERÍA, ELEMENTOS DE FIJACIÓN, POSTES Y CIMENTACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			5.000	247.11	1,235.55
701.0180	ud	SEÑAL RECTANGULAR DE 90X135 cm DE LADO Y RETRORREFLECTANCIA DE CLASE RA3			
		SEÑAL RECTANGULAR DE 90X135 CM DE LADO, RETRORREFLECTANTE DE CLASE RA3, COLOCADA SOBRE POSTE GALVANIZADO, FIJADO A TIERRA MEDIANTE HORMIGONADO I/ TORNILLERÍA Y ELEMENTOS DE FIJACIÓN Y TRANSPORTE A LUGAR DE EMPLEO.			
			4.000	388.02	1,552.08
750.0010N1	PA	SEÑALIZACIÓN EN DESVÍOS DE CONEXIÓN PROVISIONAL			
		PARTIDA ALZADA A JUSTIFICAR PARA LA SEÑALIZACIÓN PROVISIONAL, TANTO HORIZONTAL COMO VERTICAL, DE LOS DESVÍOS PROVISIONALES QUE SE LLEVEN A CABO DURANTE LA CONSTRUCCIÓN DE LA CONEXIÓN PROVISIONAL			
			1.000	25,000.00	25,000.00
		TOTAL SUBCAPÍTULO 11.5 SEÑALIZACIÓN Y DEFENSAS.....			65,916.78
		TOTAL CAPÍTULO 11 CONEXIÓN FINAL PROVISIONAL CON EL VIARIO EXISTENTE.....			7,886,478.94

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO		RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
		CAPÍTULO 12 VARIOS			
999.0257N1		PA.IALIMPIEZA Y TERMINACIÓN DE LAS OBRAS			
		PARTIDA ALZADA DE ABONO ÍNTEGRO DE LIMPIEZA Y TERMINACIÓN DE LAS OBRAS, SEGÚN O.C.15/2003			
			1.000	60,000.00	60,000.00
999.0256N1		PA.IAAUDITORÍA DE SEGURIDAD VIAL			
		PA DE ABONO ÍNTEGRO PARA LA EJECUCIÓN DE MEDIDAS COMO CONSECUENCIA DEL INFORME DE AUDITORÍA DE SEGURIDAD VIARIA EN LA FASE INICIAL EN SERVICIO			
			1.000	5,000.00	5,000.00
		TOTAL CAPÍTULO 12 VARIOS			65,000.00

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)
	CAPÍTULO 13 SEGURIDAD Y SALUD			
	TOTAL CAPÍTULO 13 SEGURIDAD Y SALUD.....			554,222.92
	TOTAL			113,946,470.18

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO

CÓDIGO	RESUMEN	CANTIDAD	PRECIO	IMPORTE (€)

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3.2. PRESUPUESTO DE EJECUCIÓN MATERIAL

PRESUPUESTO DE EJECUCIÓN MATERIAL

CAPITULO	RESUMEN	EUROS	%
01	EXPLANACIONES	8,174,276.11	7.17
02	DRENAJE	3,065,280.88	2.69
03	FIRMES Y PAVIMENTOS	3,882,258.82	3.41
04	TÚNEL DE EIROAS	65,110,856.97	57.14
05	ESTRUCTURAS	5,834,891.24	5.12
06	SEÑALIZACIÓN, BALIZAMIENTO Y DEFENSAS	1,050,331.54	0.92
07	ACTUACIONES MEDIOAMBIENTALES	14,891,867.75	13.07
08	OBRAS COMPLEMENTARIAS	1,631,457.78	1.43
09	REPOSICIÓN DE SERVICIOS Y SERVIDUMBRES	1,754,039.61	1.54
10	SEGUIMIENTO GEOTÉCNICO Y AUSCULTACIÓN	45,507.62	0.04
11	CONEXIÓN FINAL PROVISIONAL CON EL VIARIO EXISTENTE	7,886,478.94	6.92
12	VARIOS	65,000.00	0.06
13	SEGURIDAD Y SALUD	554,222.92	0.49
	TOTAL EJECUCIÓN MATERIAL	113,946,470.18	

El presupuesto de Ejecución Material asciende a la cantidad de CIENTO TRECE MILLONES NOVECIENTOS CUARENTA Y SEIS MIL CUATROCIENTOS SETENTA EUROS con DIECIOCHO CÉNTIMOS (113,946,470.18 euros).

Ourense, a Agosto 2023

EL INGENIERO AUTOR DEL PROYECTO

Ignacio Barroso Sánchez

EL INGENIERO DIRECTOR DEL PROYECTO

Javier Serafín Frade Fernández

Vº. Bº. EL INGENIERO JEFE DE LA DEMARCACIÓN

Ángel González del Río

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN

PRESUPUESTO DE EJECUCIÓN MATERIAL

CAPITULO RESUMEN EUROS %

3.3. PRESUPUESTO BASE DE LICITACIÓN

PRESUPUESTO VARIANTE DE ORENSE TRAMO B - PROYECTO DE CONSTRUCCIÓN
PRESUPUESTO BASE DE LICITACIÓN

Total Presupuesto de Ejecución Material	113,946,470.18
Gastos generales de la estructura:	
a) Gastos Generales de la Empresa, Gastos Financieros, Cargas Fiscales (I.V.A. excluido), Tasas de la Administración y demás derivados de las obligaciones del Contrato (según Real Decreto 982/1987 de 5 de Junio) y Orden FOM/1824/2013, de 30 de septiembre, del Ministerio de Fomento, por la que se fija el porcentaje en el 13 %	14,813,041.12
b) Beneficio Industrial del Contratista (según Real Decreto 982/1987 de 5 de Junio): 6 %	6,836,788.21
**TOTAL BASE DE LICITACIÓN (SIN IVA):..... **	**135,596,299.51**
21% de I.V.A.	28,475,222.90
TOTAL BASE DE LICITACIÓN (IVA INCLUIDO)	164,071,522.41

El presupuesto Base de Licitación (sin IVA) asciende a la cantidad de CIENTO TREINTA Y CINCO MILLONES QUINIENTOS NOVENTA Y SEIS MIL DOSCIENTOS NOVENTA Y NUEVE EUROS CON CINCUENTA Y UN CÉNTIMOS (135,596,299.51 euros).

Ourense, a Agosto 2023

EL INGENIERO AUTOR DEL PROYECTO

Ignacio Barroso Sánchez

EL INGENIERO DIRECTOR DEL PROYECTO

Javier Serafín Frade Fernández

Vº. Bº. EL INGENIERO JEFE DE LA DEMARCACIÓN

Firmado por GONZALEZ DEL RIO ANGEL - DNI ***4260** el día 26/09/2023 con un certificado emitido por AC Sector Público

Ángel González del Río

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