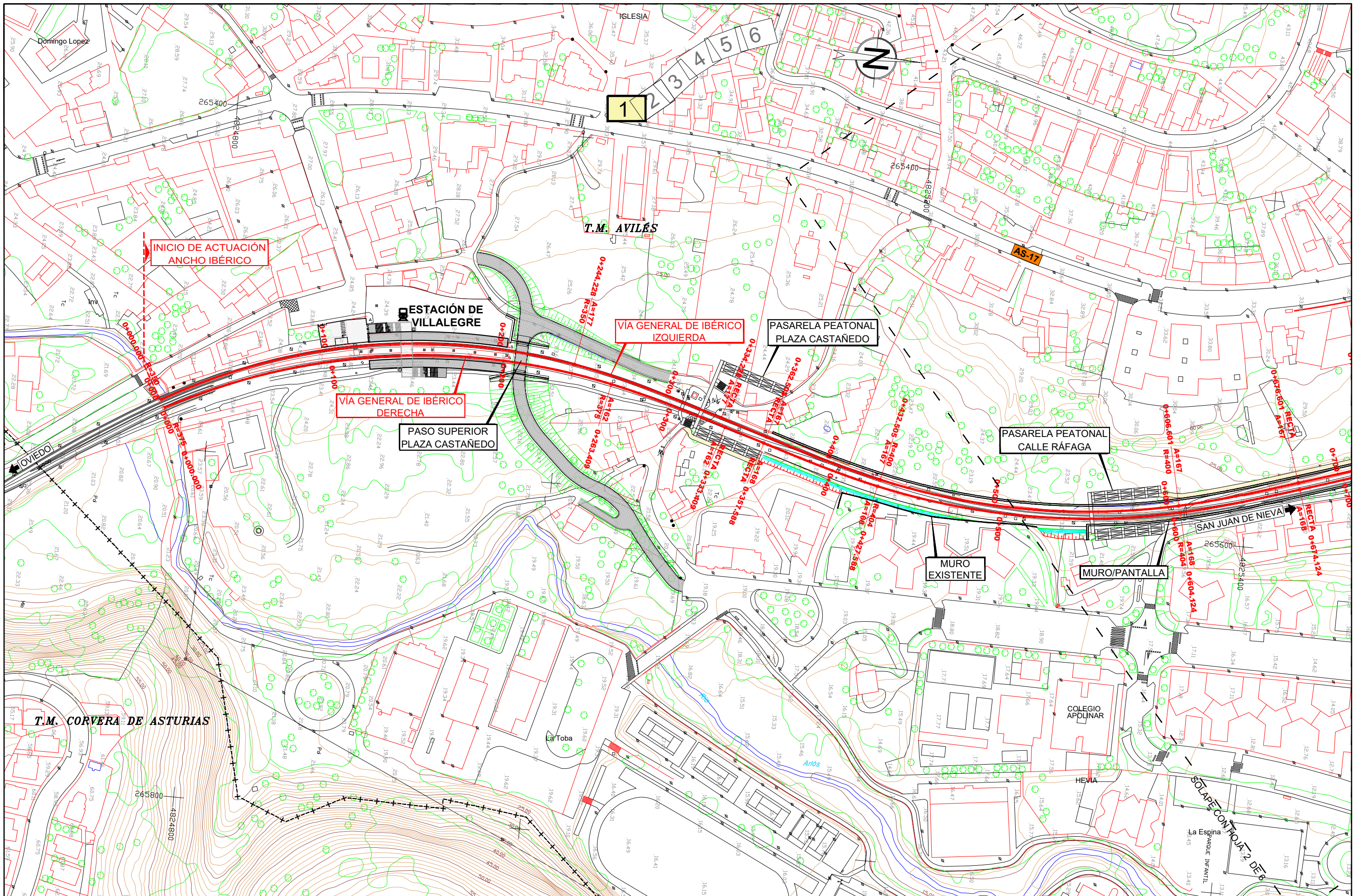
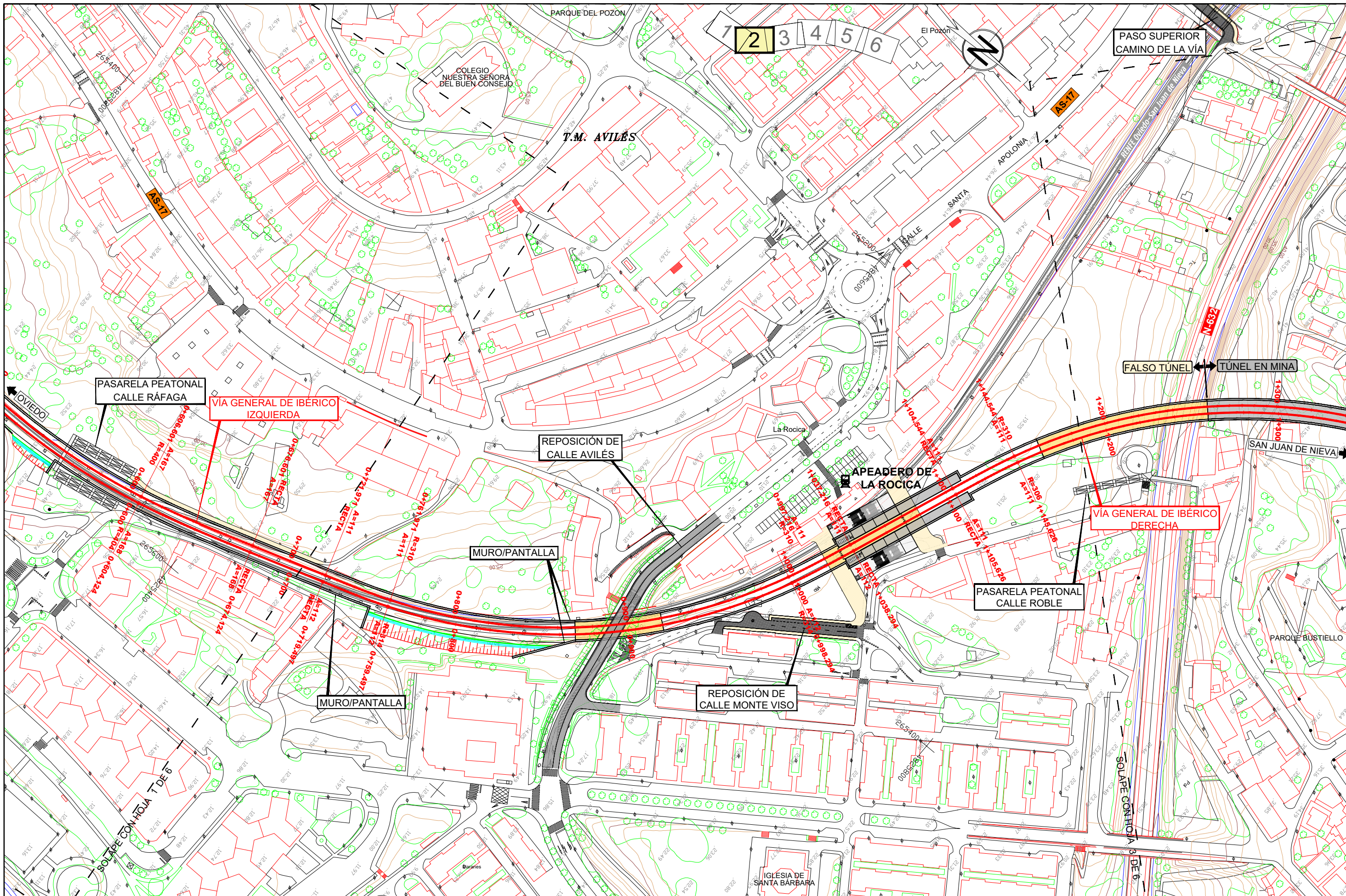
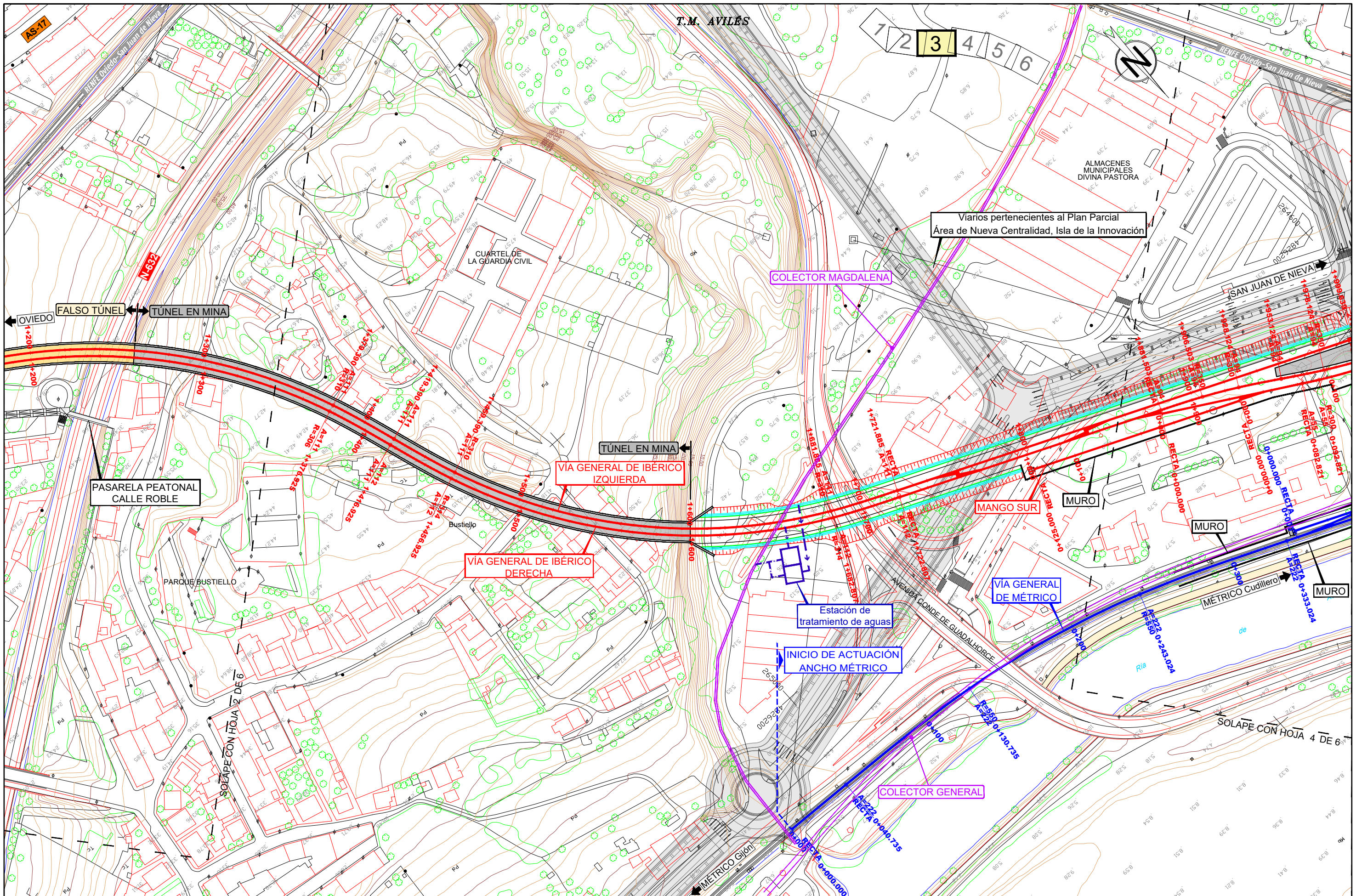
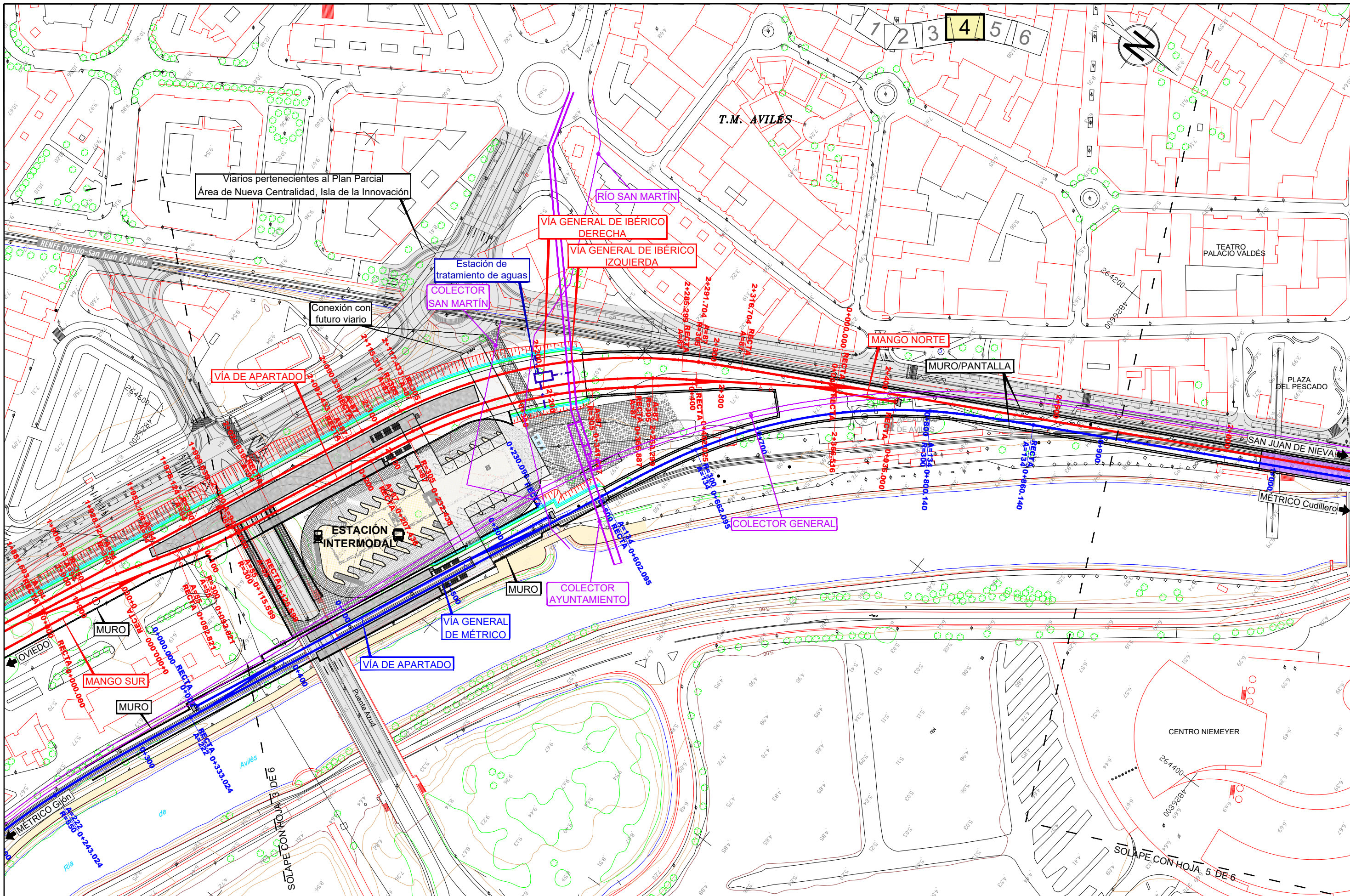
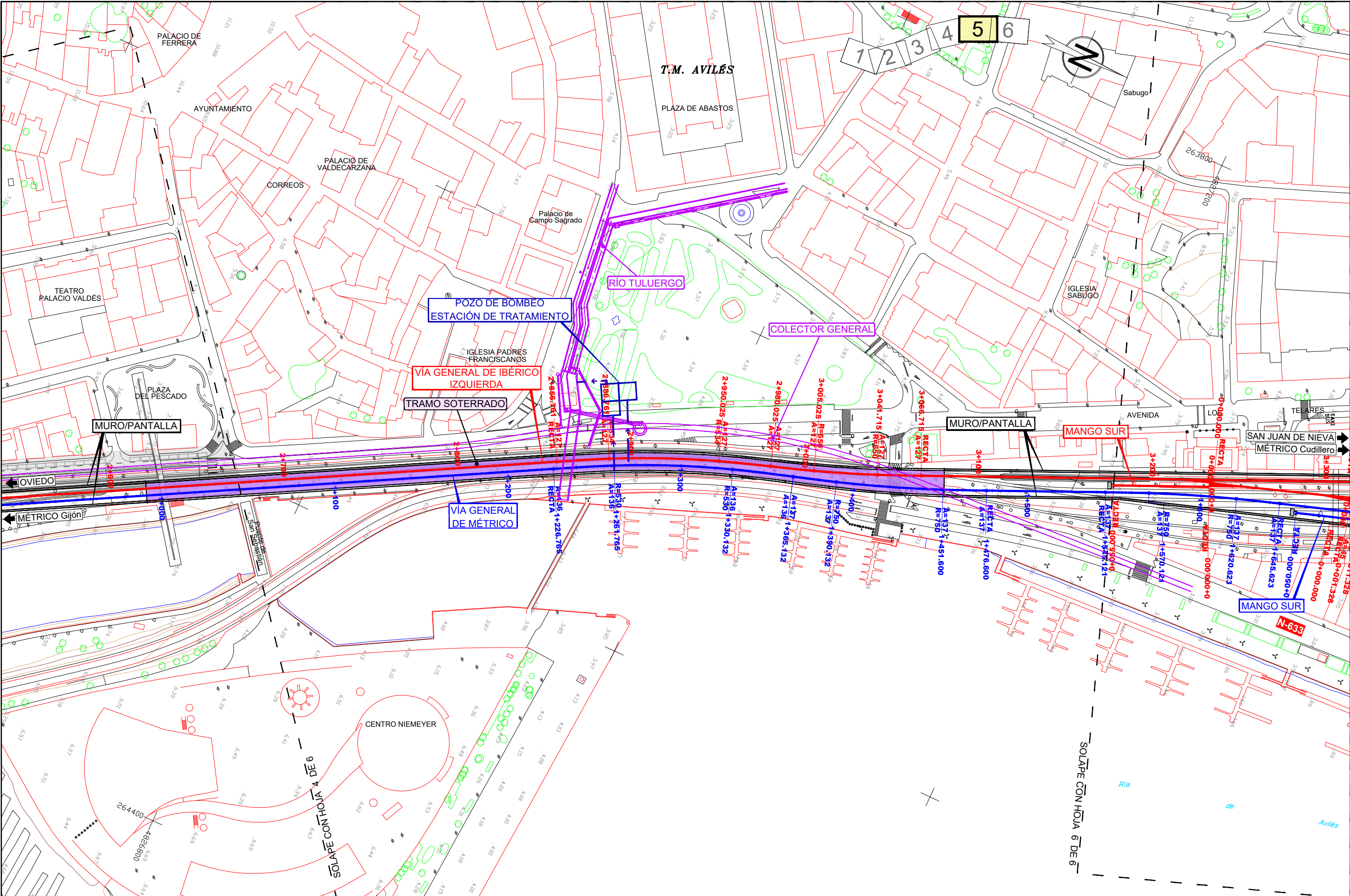


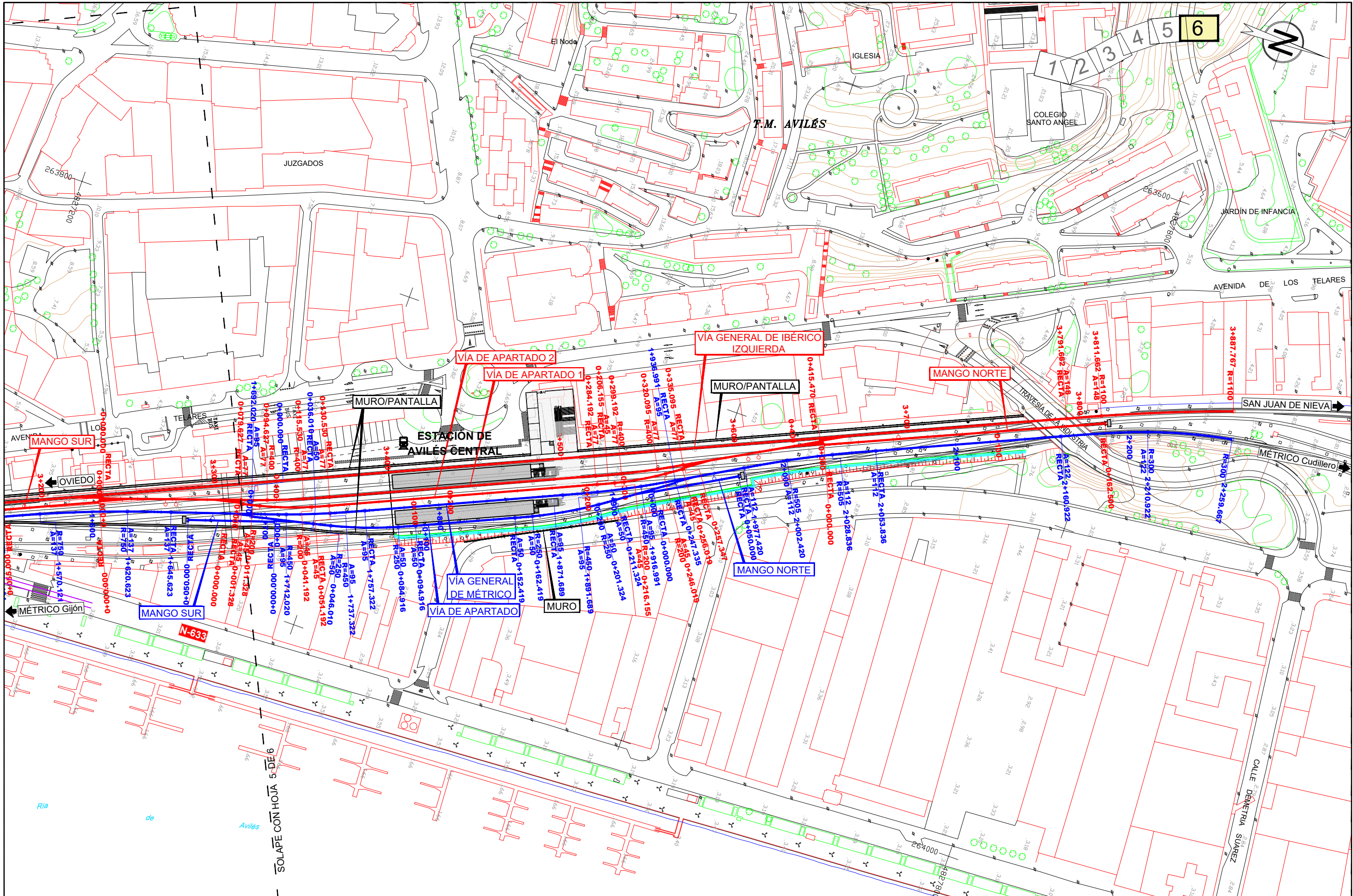




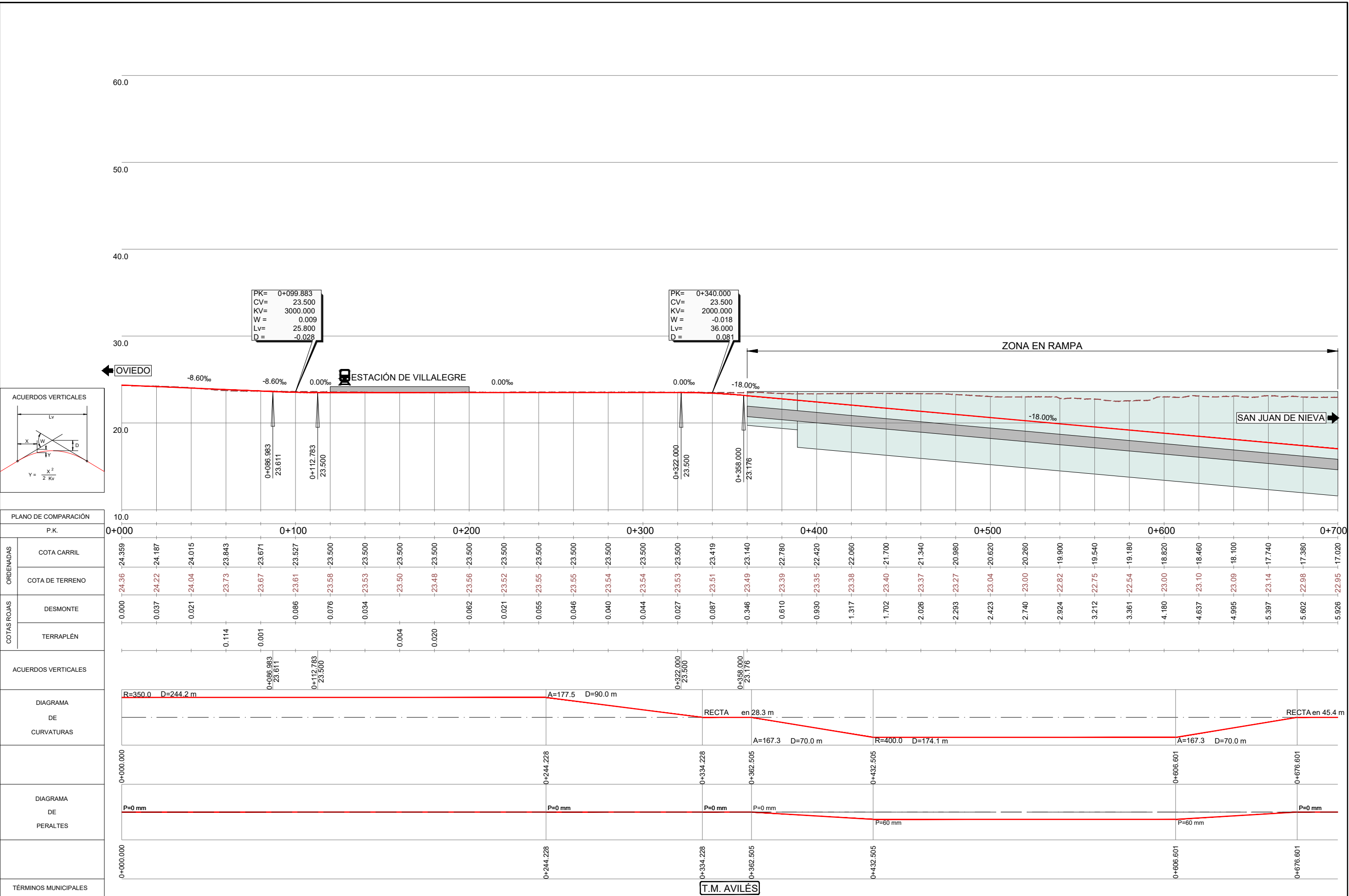


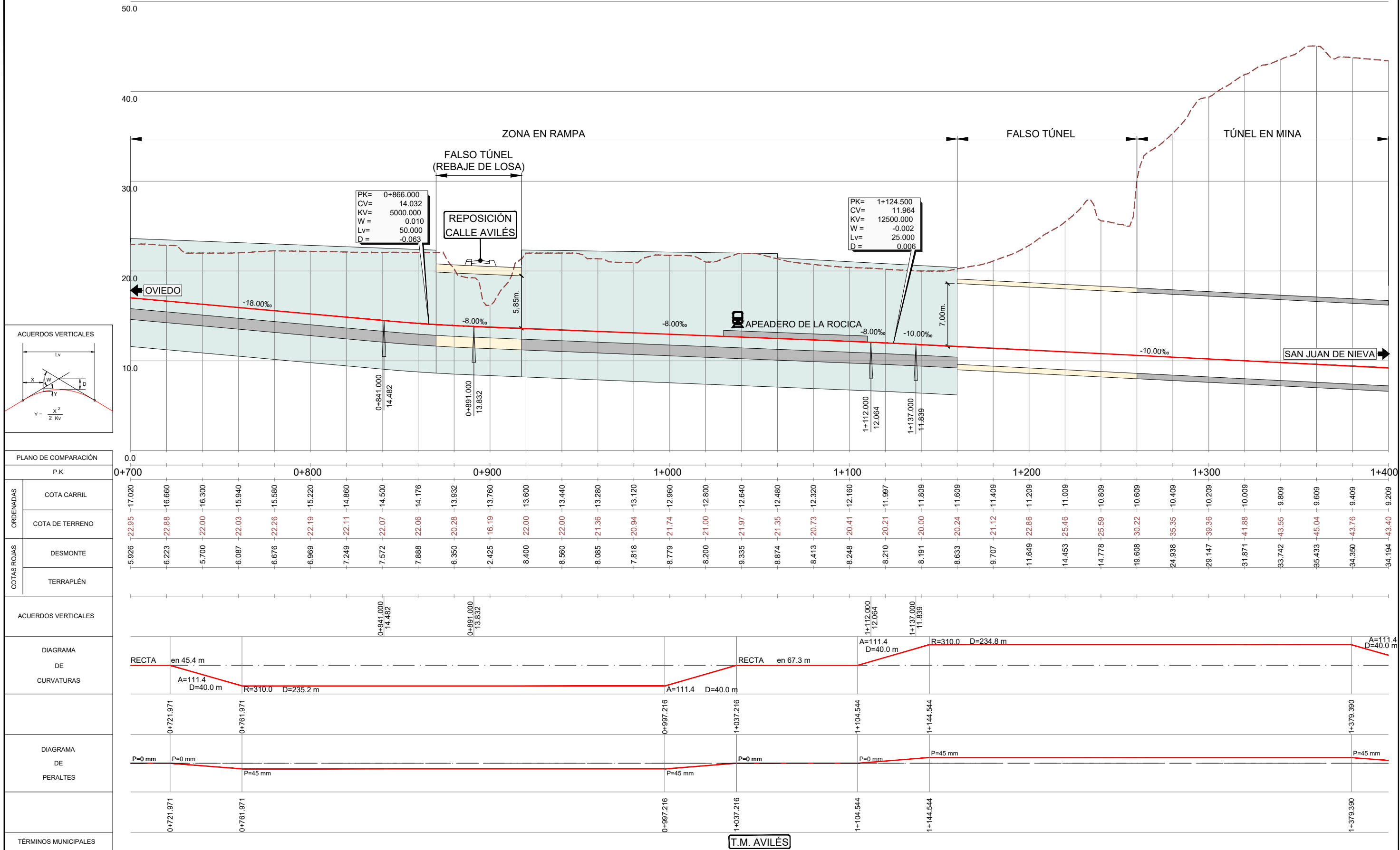


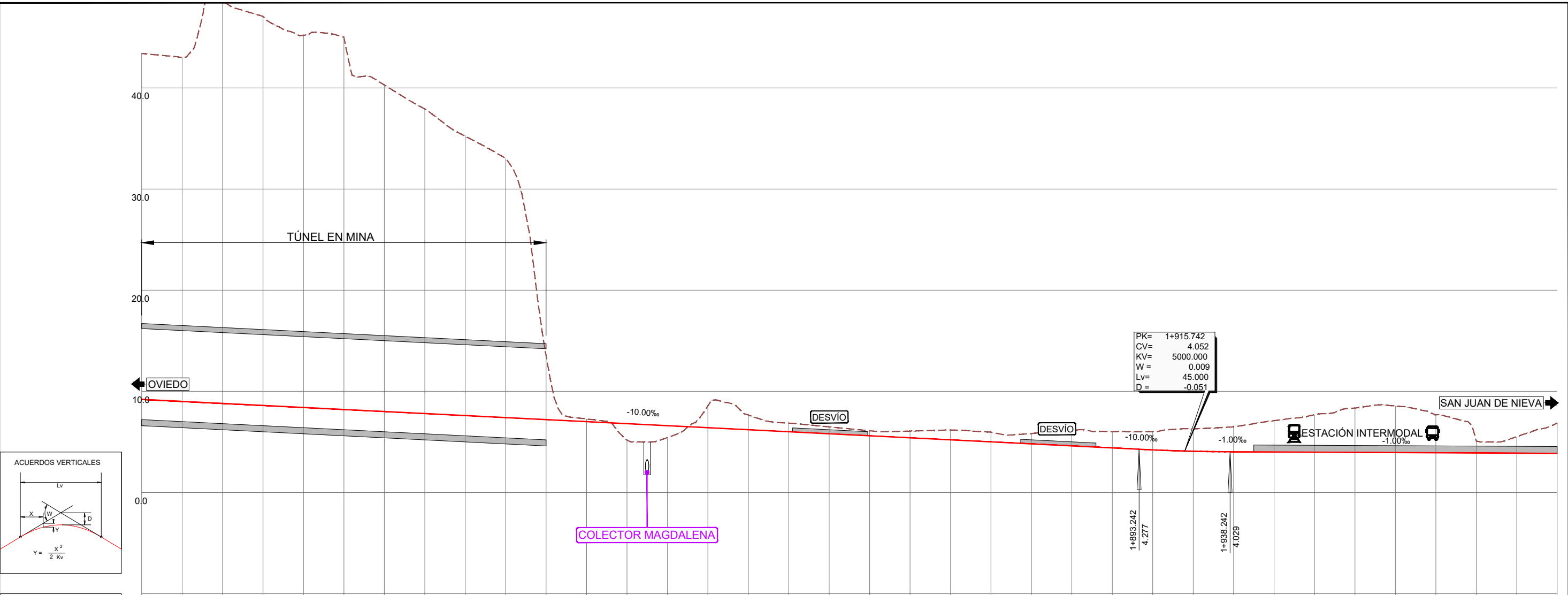




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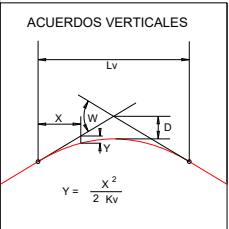
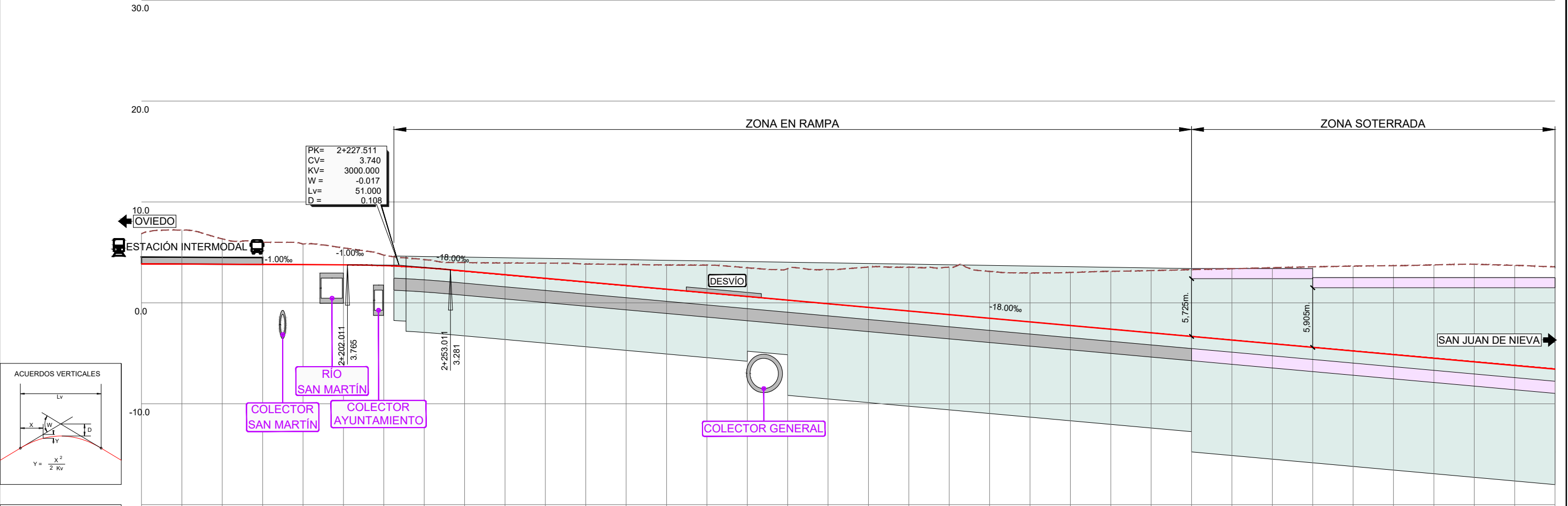






PLANO DE COMPARACIÓN		-10.0																																					
P.K.		1+400				1+500				1+600				1+700				1+800				1+900				2+000				2+100									
ORDENADAS	COTA CARRIL	-9.209	-9.009	-8.809	-8.609	-8.409	-8.209	-8.009	-7.809	-7.609	-7.409	-7.209	-7.009	-6.809	-6.609	-6.409	-6.209	-6.009	-5.809	-5.609	-5.409	-5.209	-5.009	-4.809	-4.609	-4.409	-4.214	-4.081	-4.027	-4.007	-3.987	-3.967	-3.947	-3.927	-3.907	-3.887	-3.867		
	COTA DE TERRENO	43.40	43.00	48.58	47.07	45.21	45.01	40.29	37.92	35.22	33.04	33.50	7.27	5.18	5.43	8.57	7.66	6.86	6.49	6.10	6.07	6.18	5.97	5.84	6.12	6.01	6.29	6.51	4.027	4.007	3.987	3.967	3.947	3.927	3.907	3.887	3.867		
COTAS ROJAS	DESMONTE	34.194	33.991	39.769	38.462	36.799	36.800	32.281	30.110	27.613	25.629	6.294	-0.264	1.632	1.174	2.161	1.454	-0.851	-0.680	-0.494	-0.665	-0.976	-0.961	-1.027	-1.511	-1.600	-1.797	-2.214	-2.479	-3.100	-3.701	-4.385	-4.602	-3.749	-1.188	-1.631	-2.998		
	TERRAPLÉN																																						
ACUERDOS VERTICALES		</																																					

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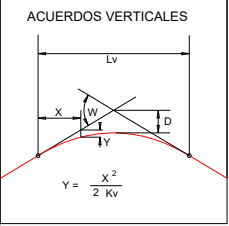
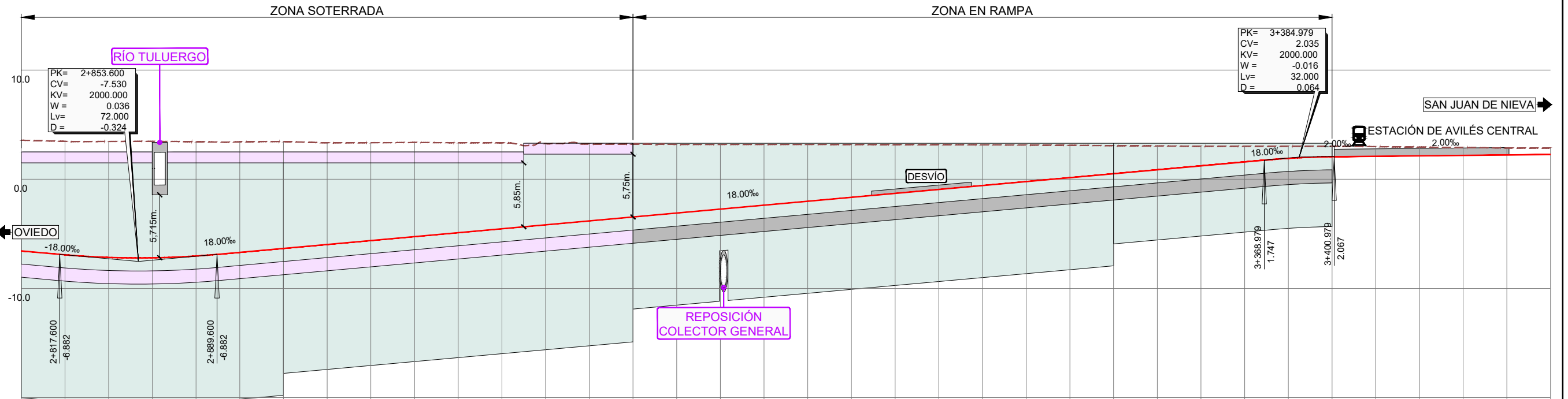
PLANO DE COMPARACIÓN		-20.0	2+100	2+200	2+300	2+400	2+500	2+600	2+700	2+800
ORDENADAS	P.K.									
	COTA CARRIL		3.867	3.847	3.827	3.807	3.787	3.767	3.693	3.487
COTAS ROJAS	COTA DE TERRENO		6.87	7.21	6.34	6.00	5.83	5.46	4.72	3.487
	DESMONTE		2.998	3.358	2.511	2.193	2.047	1.690	1.028	0.805
COTAS ROJAS	TERRAPLÉN									
ACUERDOS VERTICALES				2+202.011 3.765	2+253.011 3.281					
DIAGRAMA DE CURVATURAS			A=87.3 D=25.0 m	R=305.0 D=176.4 m	A=87.3 D=25.0 m	RECTA en 540.1 m				
DIAGRAMA DE PERALTES			P=0 mm	P=0 mm	P=0 mm	P=0 mm				
TÉRMINOS MUNICIPALES			2+115.331	2+291.704	2+316.704					

T.M. AVILÉS

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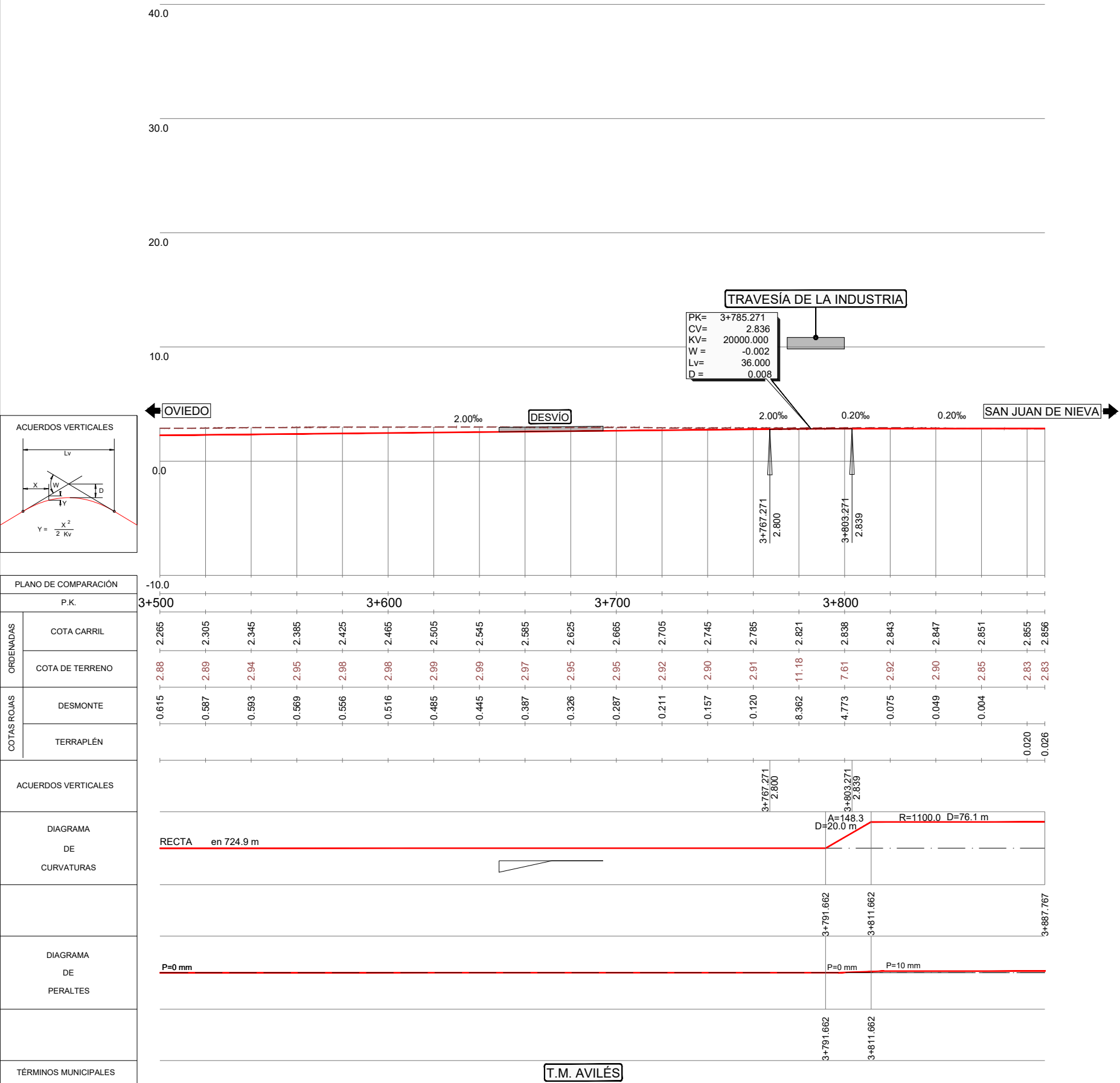
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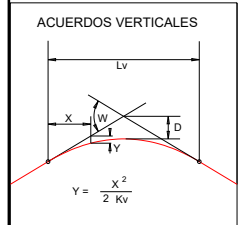
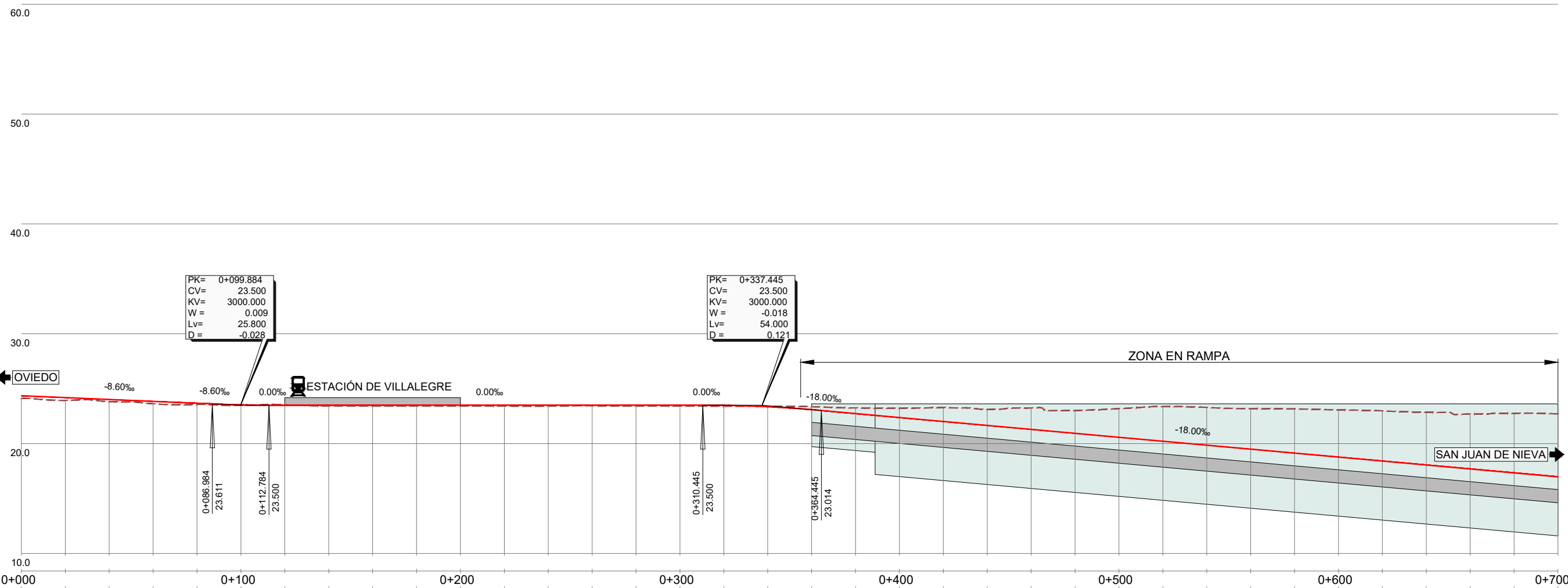
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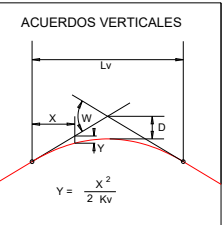
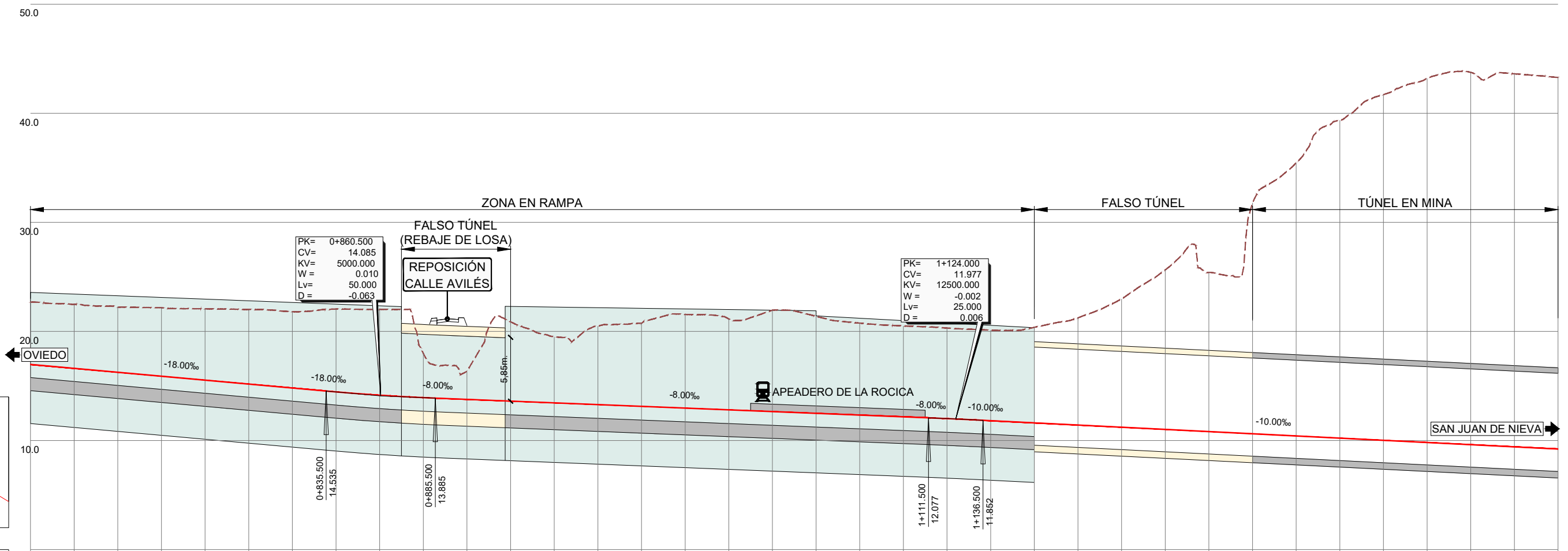
PLANO DE COMPARACIÓN		P.K.	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500																													
ORDENADAS	COTA CARRIL		-6.565	-6.924	-7.160	-7.196	-7.032	-6.695	-6.335	-5.975	-5.615	-5.255	-4.895	-4.535	-4.175	-3.815	-3.455	-3.095	-2.735	-2.375	-2.015	-1.655	-1.295	-0.935	-0.575	-0.215	0.145	0.505	0.865	1.225	1.585	1.915	2.065	2.105	2.145	2.185	2.225	2.265	
	COTA DE TERRENO		3.58	3.47	3.46	3.47	3.44	3.43	3.44	3.34	3.35	3.37	3.34	3.34	3.27	3.23	3.22	3.19	3.19	3.19	3.19	3.19	3.18	3.17	3.16	3.15	3.14	3.11	3.08	3.05	3.02	3.02	3.02	2.99	2.95	2.90	2.86	2.86	
COTAS ROJAS	DESMONTE		-10.142	-10.393	-10.621	-10.666	-10.468	-10.120	-9.779	-9.315	-8.962	-8.622	-8.235	-7.871	-7.446	-7.045	-6.675	-6.289	-5.925	-5.565	-5.205	-4.838	-4.469	-4.099	-3.726	-3.352	-2.963	-2.574	-2.185	-1.796	-1.435	-1.105	-0.955	-0.881	-0.803	-0.720	-0.637	-0.595	
	TERRAPLÉN																																						
ACUERDOS VERTICALES			2+817.600 -6.882	2+889.600 -6.882																																			
DIAGRAMA DE CURVATURAS			RECTA en 540.1 m	A=126.6 D=30.0 m	R=534.0 D=63.3 m	A=126.6 D=30.0 m																																	
						A=127.5 D=25.0 m	R=650.0 D=36.7 m	A=127.5 D=25.0 m																															
			2+856.761	2+886.761	2+950.025	2+980.025	3+005.025	3+041.715	3+066.715																														
DIAGRAMA DE PERALTES			P=0 mm	P=0 mm	P=30 mm	P=0 mm	P=25 mm	P=0 mm																															
TÉRMINOS MUNICIPALES			2+856.761	2+886.761	2+950.025	2+980.025	3+005.025	3+041.715	3+066.715																														
											T.M. AVILÉS																												

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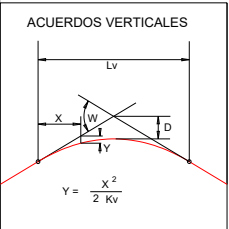
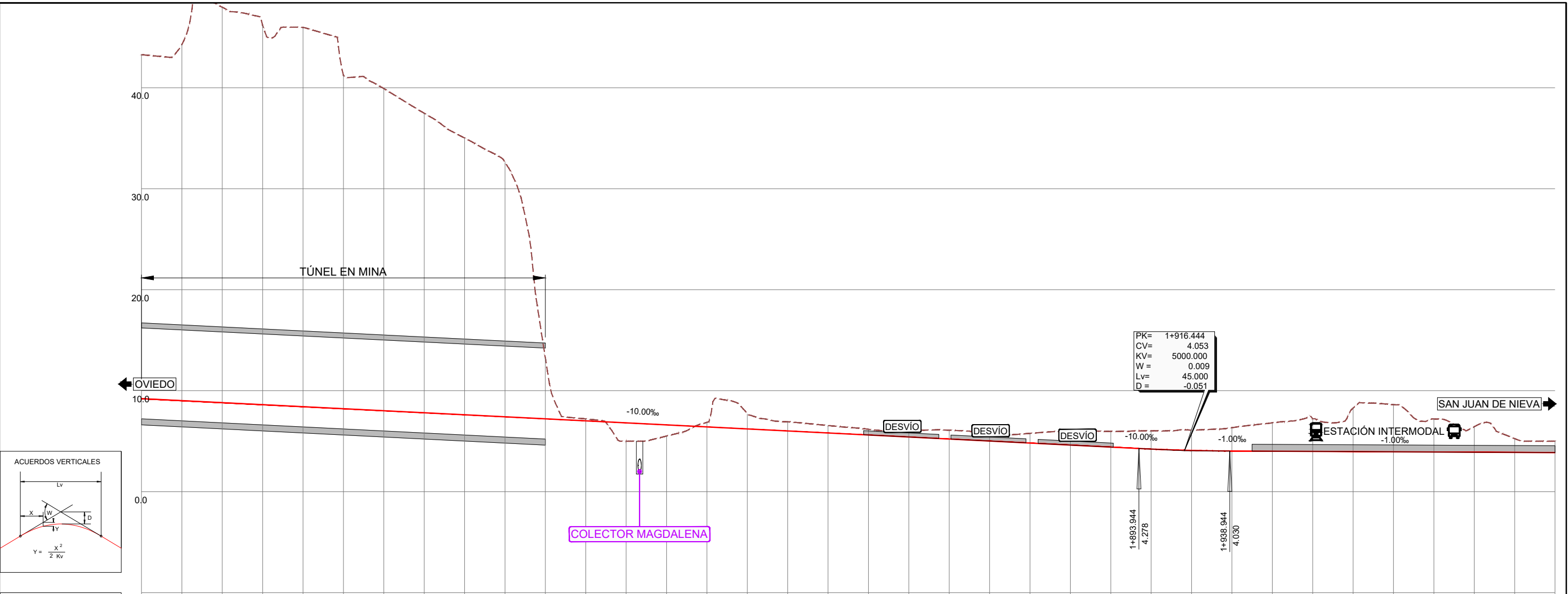




PLANO DE COMPARACIÓN		10.0																																							
P.K.		0+0000+1000+2000+3000+4000+5000+6000+700																																							
ORDENADAS	COTA CARRIL																																								
	COTA DE TERRENO	-24.12	-24.359	-23.93	-24.187	-23.83	-24.015	-23.63	-23.843	-23.57	-23.671	-23.48	-23.527	-23.50	-23.500	-23.44	-23.500	-23.43	-23.500	-23.42	-23.500	-23.40	-23.485	-23.354	-23.091	-22.734	-22.374	-22.014	-21.654	-21.294	-20.934	-20.574	-20.214	-19.854	-19.494	-19.134	-18.774	-18.414	-18.054	-17.694	-17.334
COTAS ROJAS	DESMONTE																																								
	TERRAPLÉN	-0.235	-0.255	-0.188	-0.212	-0.104	-0.043	0.031	-23.53	-23.500	-0.064	-0.070	-0.070	-0.073	-0.083	-0.088	-0.051	-0.070	-0.080	-0.083	0.050	0.271	0.518	0.848	1.271	1.456	1.951	2.082	2.607	3.156	3.437	3.693	4.021	4.300	4.563	4.797	4.992	5.416	5.726		
ACUERDOS VERTICALES																																									
DIAGRAMA DE CURVATURAS		R=375.0 D=263.4 m A=162.0 D=70.0 m RECTA en 24.2 m A=168.2 D=70.0 m R=404.0 D=176.5 m A=168.2 D=70.0 m RECTA en 45.4 m																																							
DIAGRAMA DE PERALTES		P=0 mm P=0 mm P=0 mm P=0 mm P=60 mm P=60 mm P=0 mm																																							
TÉRMINOS MUNICIPALES		T.M. AVILÉS																																							

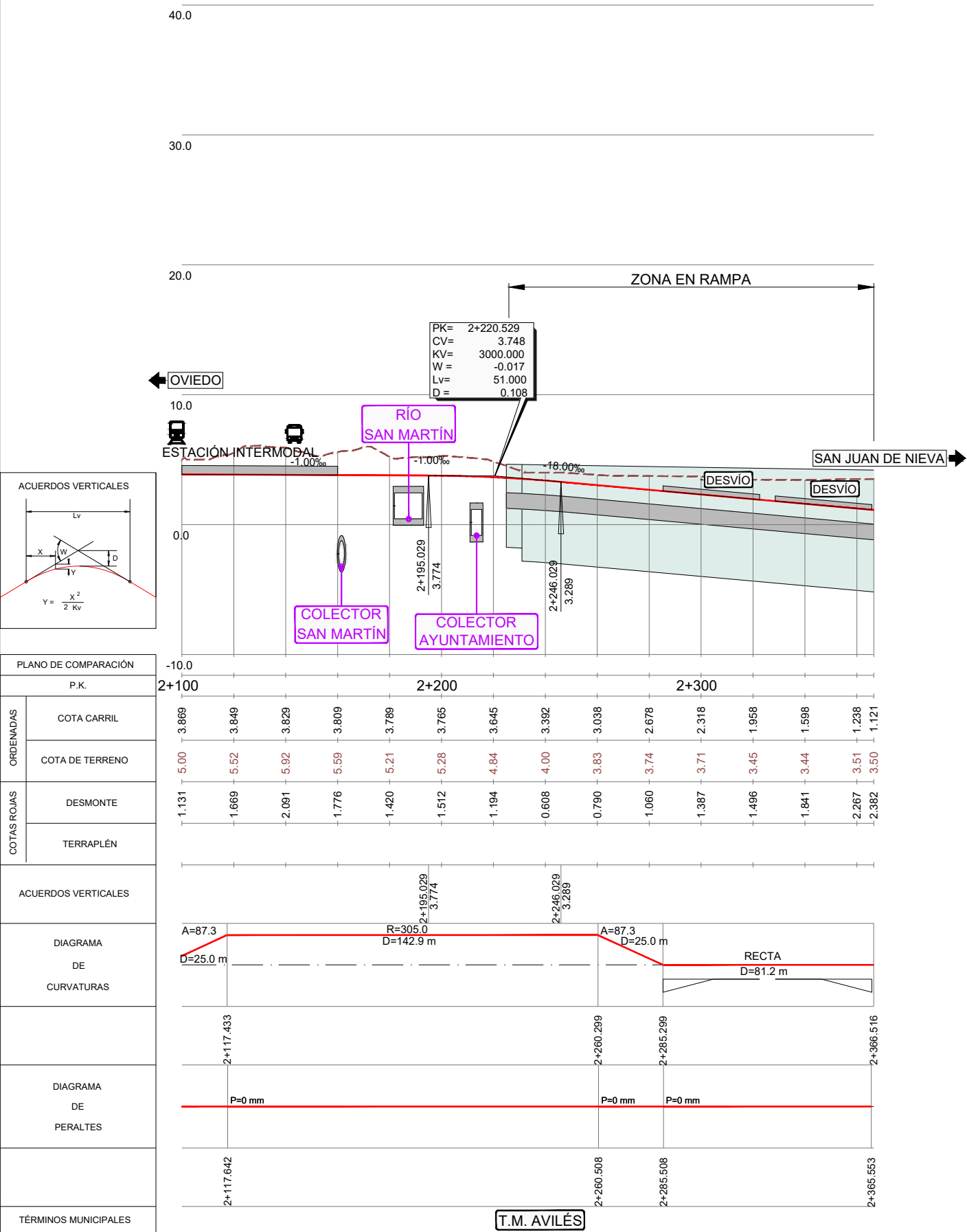


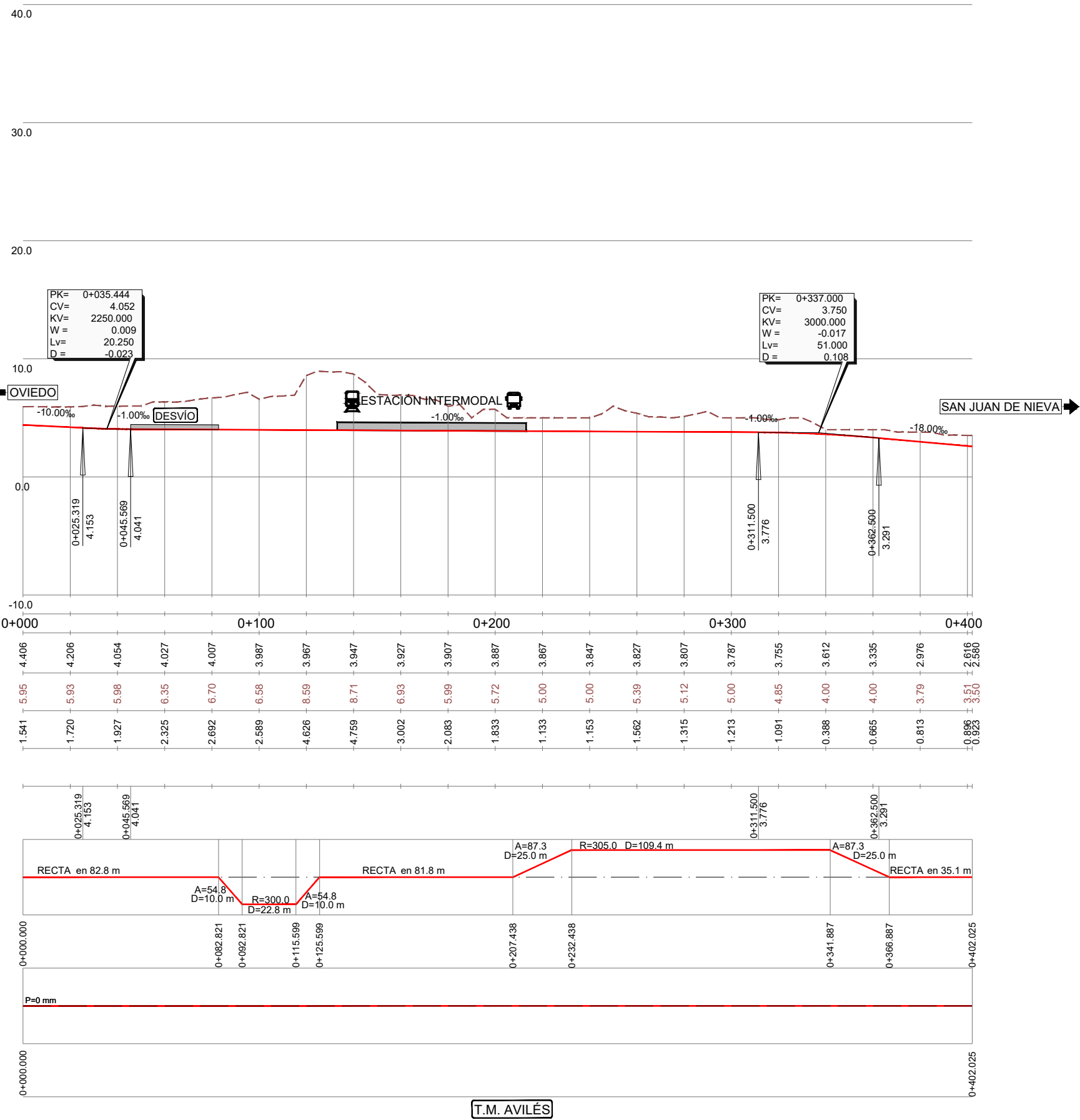
PLANO DE COMPARACIÓN		P.K.	0+700	0+800	0+900	1+000	1+100	1+200	1+300	1+400																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
ORDENADAS	COTA CARRIL		-16.974	-16.614	-16.254	-15.894	-15.534	-15.174	-14.814	-14.456	-14.154	-13.932	-13.769	-13.609	-13.449	-13.289	-13.129	-12.969	-12.809	-12.649	-12.489	-12.329	-12.169	-12.006	-11.817	-11.617	-11.417	-11.217	-11.017	-10.817	-10.617	-10.417	-10.217	-10.017	-9.817	-9.617	-9.417	-9.217																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
	COTA DE TERRENO		-22.70	-22.48	-22.22	-22.18	-22.08	-22.01	-21.81	-22.05	-22.02	-17.99	-16.34	-20.89	-19.51	-20.49	-20.74	-21.56	-21.14	-21.95	-21.39	-20.76	-20.50	-20.31	-20.12	-20.38	-21.25	-22.98	-25.65	-25.41	-31.79	-35.45	-39.36	-43.21	-43.75	-43.62	-43.28																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
COTAS ROJAS	DESMONTE		-5.726	-5.863	-5.969	-6.282	-6.541	-6.838	-6.993	-7.590	-7.866	-4.054	-2.570	-7.277	-6.057	-7.200	-7.615	-8.587	-8.332	-9.297	-8.896	-8.432	-8.332	-8.301	-8.305	-8.759	-9.829	-11.762	-14.630	-14.591	-21.171	-25.032	-29.147	-31.699	-33.388	-34.134	-34.206	-34.064																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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ACUERDOS VERTICALES										0+835.500 14.535				0+885.500 13.885									1+111.500 12.077			1+136.500 11.852																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
DIAGRAMA DE CURVATURAS			RECTA en 45.4 m	A=112.1 D=40.0 m															D=40.0 m A=112.1			RECTA en 67.3 m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

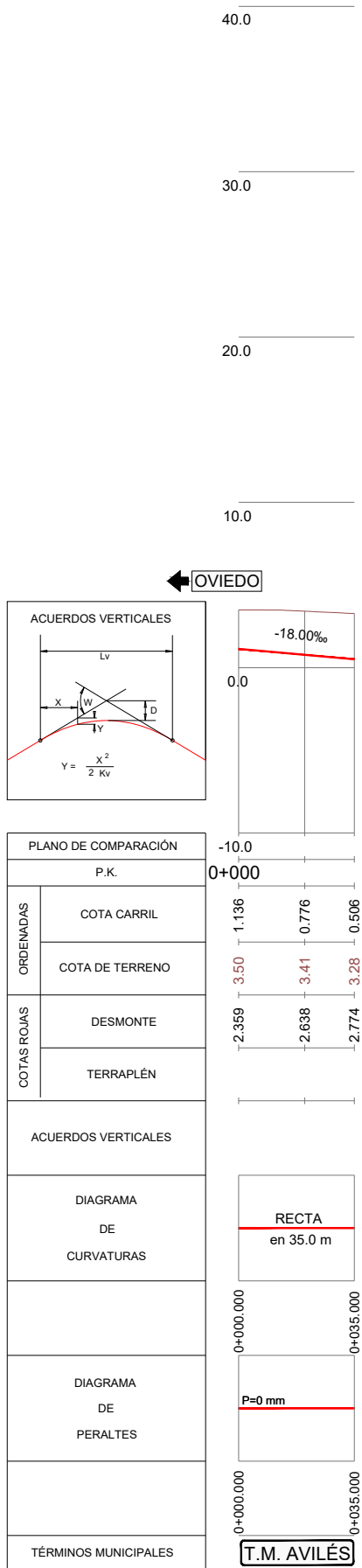
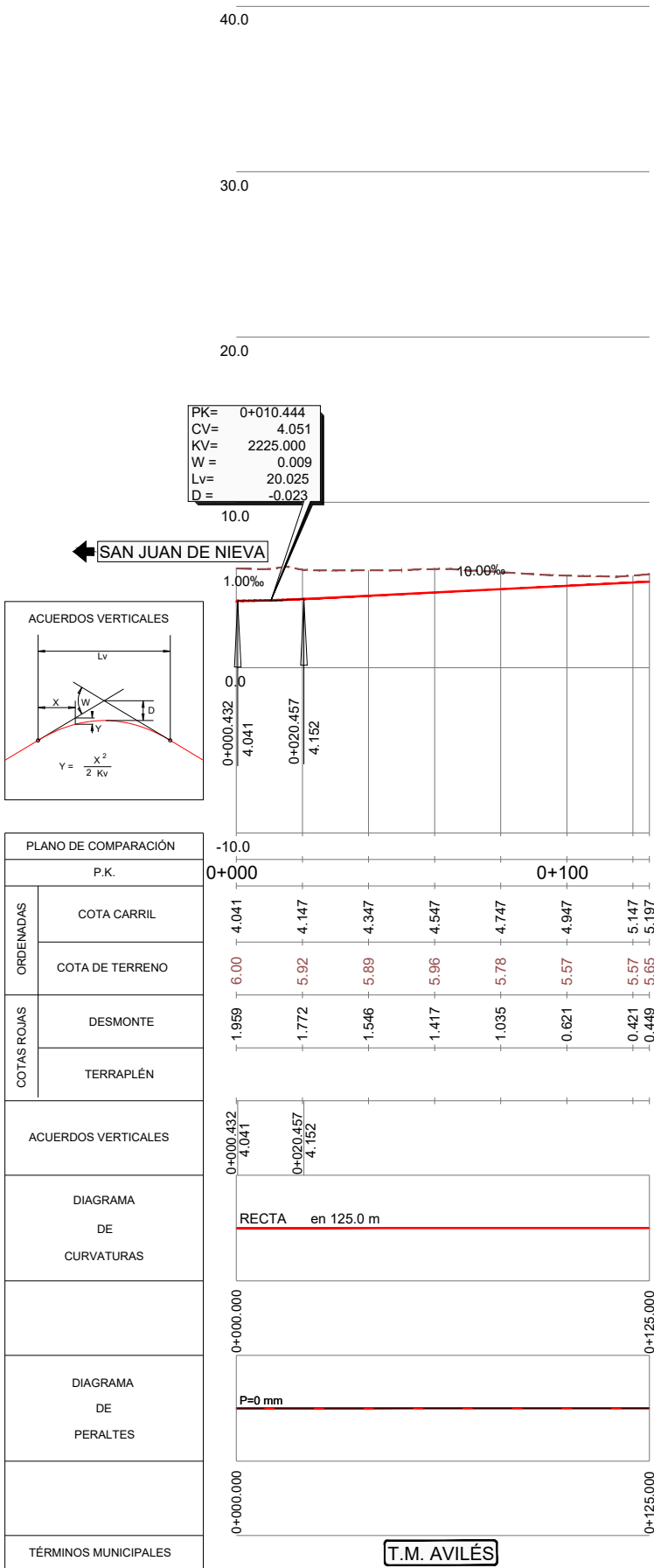


PLANO DE COMPARACIÓN		P.K.	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100
ORDENADAS	COTA CARRIL		9.217	8.817	8.417	8.017	7.617	7.217	6.817	6.417
	COTA DE TERRENO		-43.28	-44.28	-47.97	-46.17	-45.98	-41.23	-39.93	-37.48
COTAS FOJAS	DESMONTE		-34.064	-35.268	-39.155	-37.557	-37.560	-33.009	-31.912	-29.659
	TERRAPLÉN									
ACUERDOS VERTICALES										
DIAGRAMA DE CURVATURAS			A=110.6 D=40.0 m	A=112.1 D=40.0 m	R=314.0 D=225.9 m	A=112.1 D=40.0 m	RECTA en 158.7 m	A=93.5 D=25.0 m	R=350.0 D=21.6 m	A=93.5 D=25.0 m
			1+416.925	1+456.925		1+682.807	1+722.807	1+881.503	1+906.503	1+928.124
DIAGRAMA DE PERALTES			P=0 mm	P=45 mm	P=45 mm	P=0 mm	P=0 mm	P=0 mm	P=0 mm	P=0 mm
			1+416.925	1+456.925		1+682.807	1+722.807	1+881.503	1+902.313	1+932.313
TÉRMINOS MUNICIPALES										

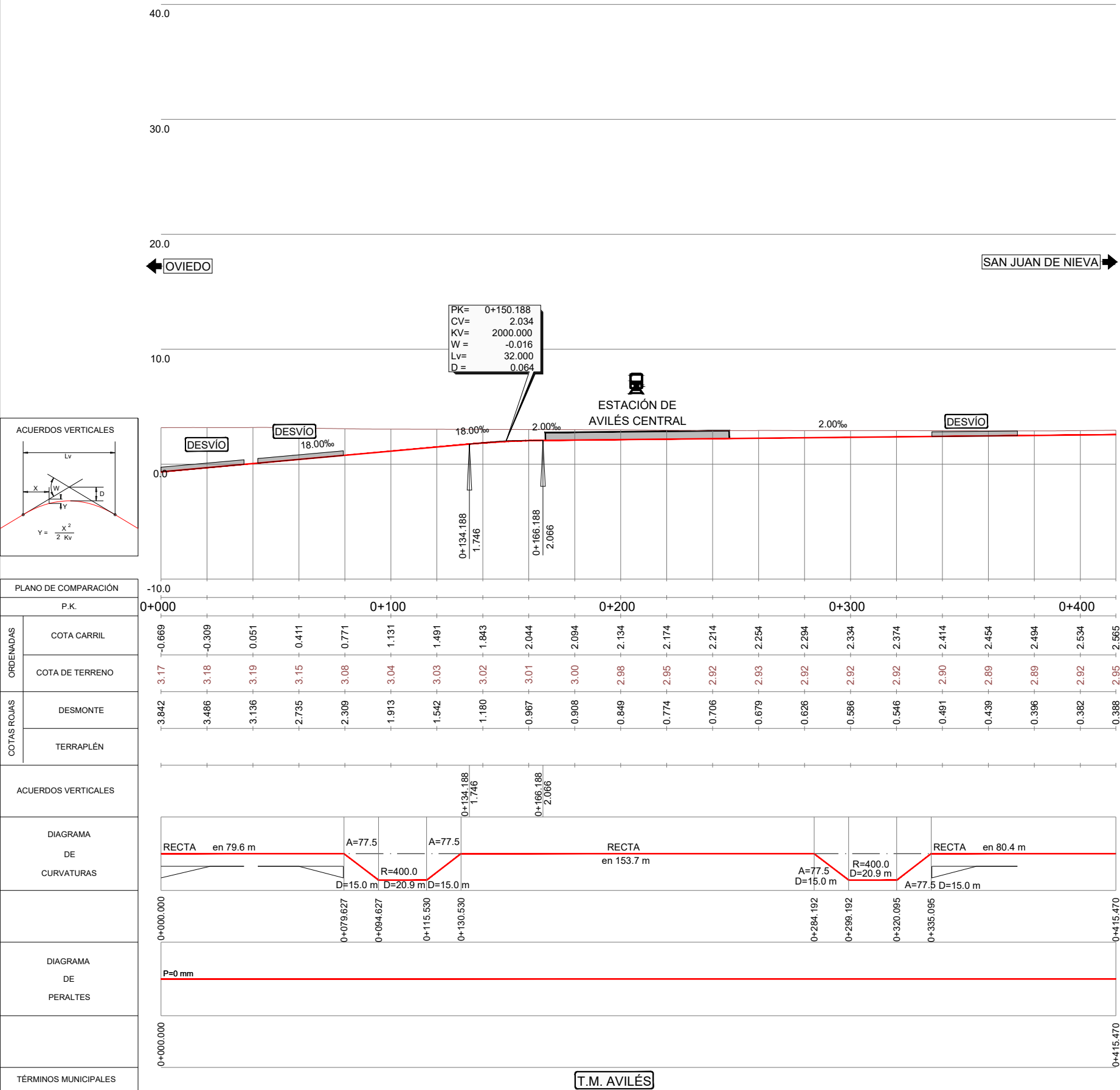
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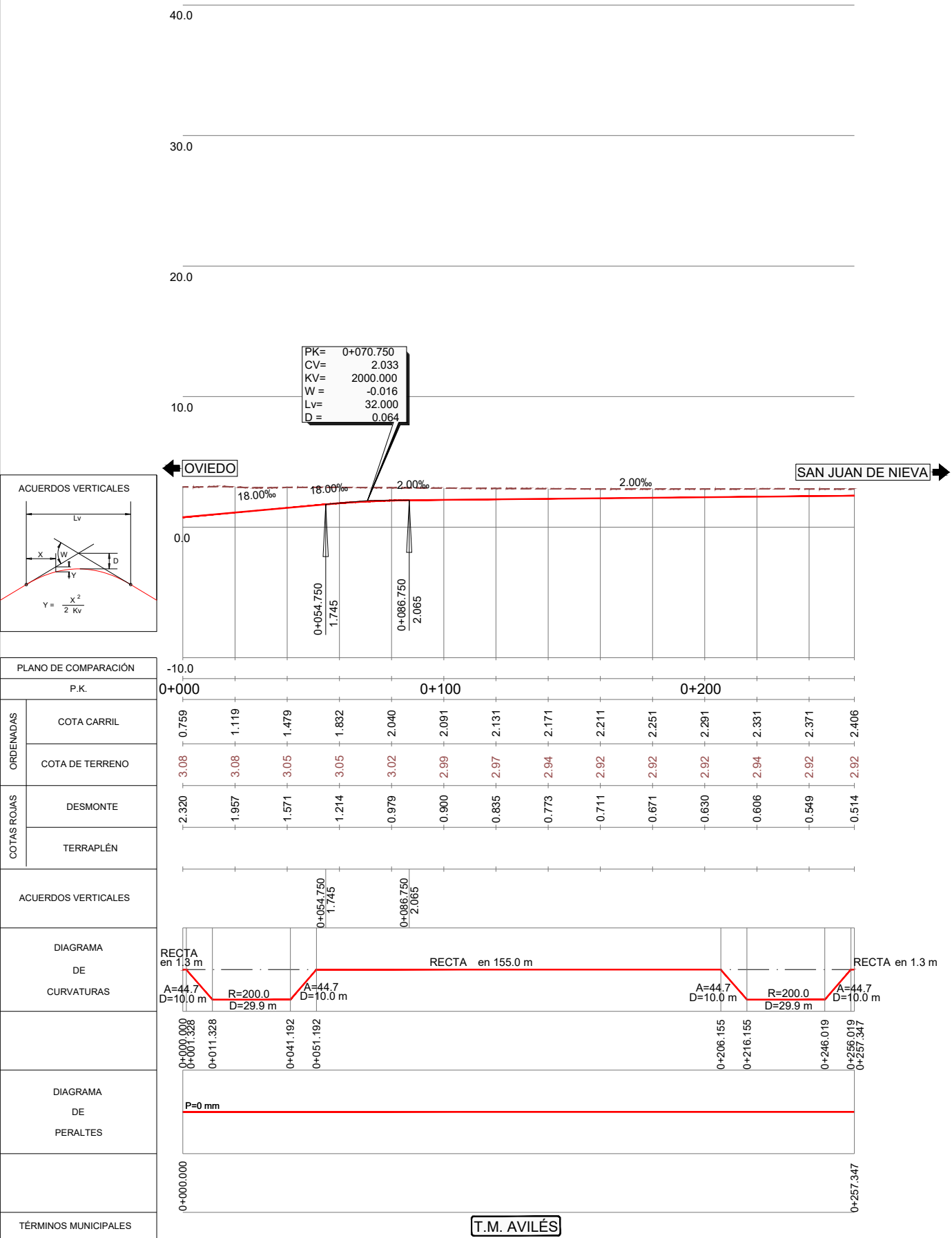




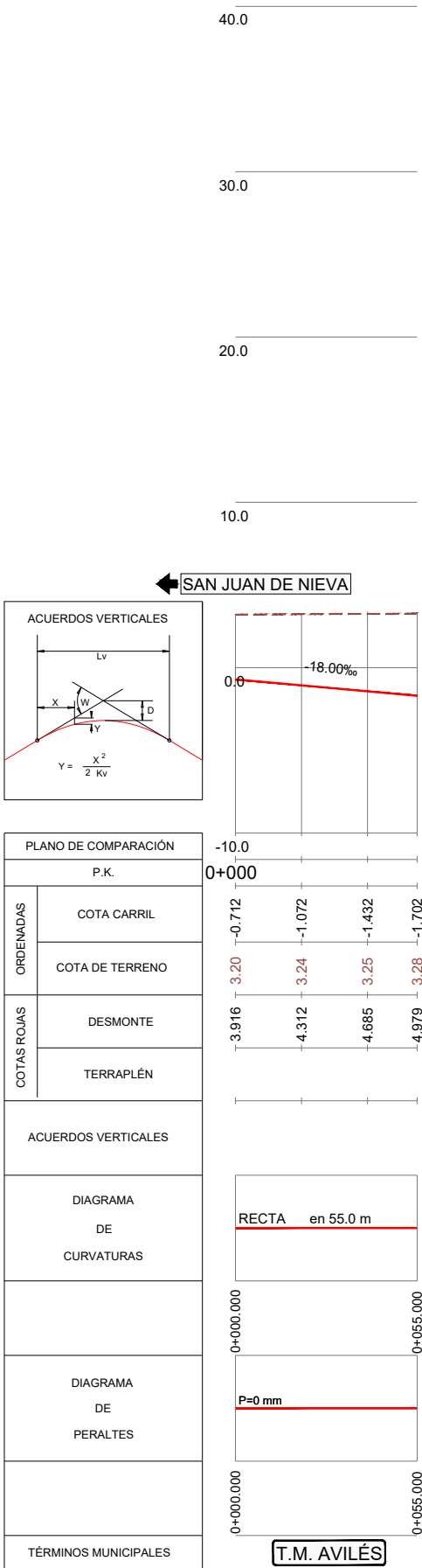


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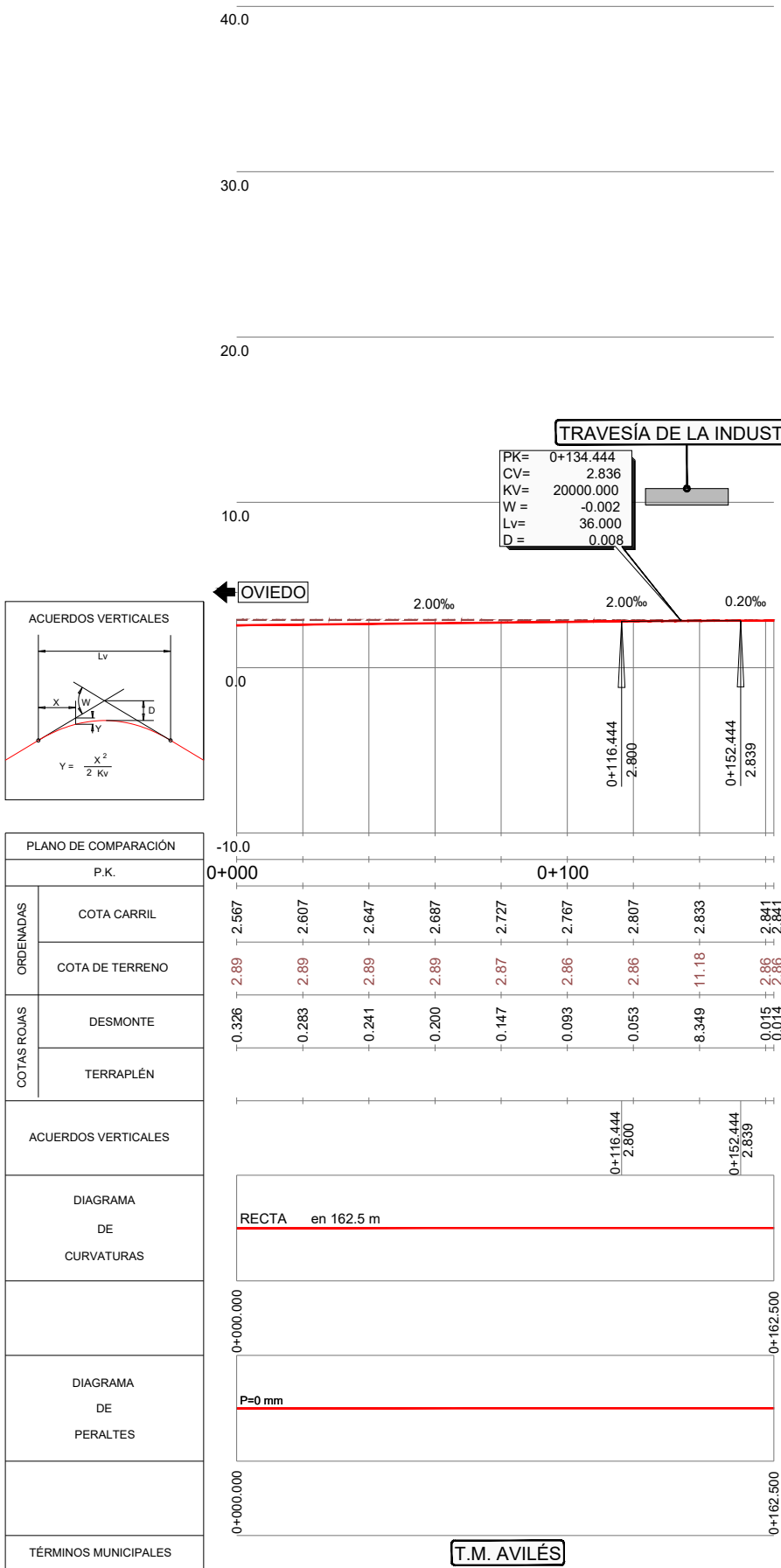




MANGO SUR



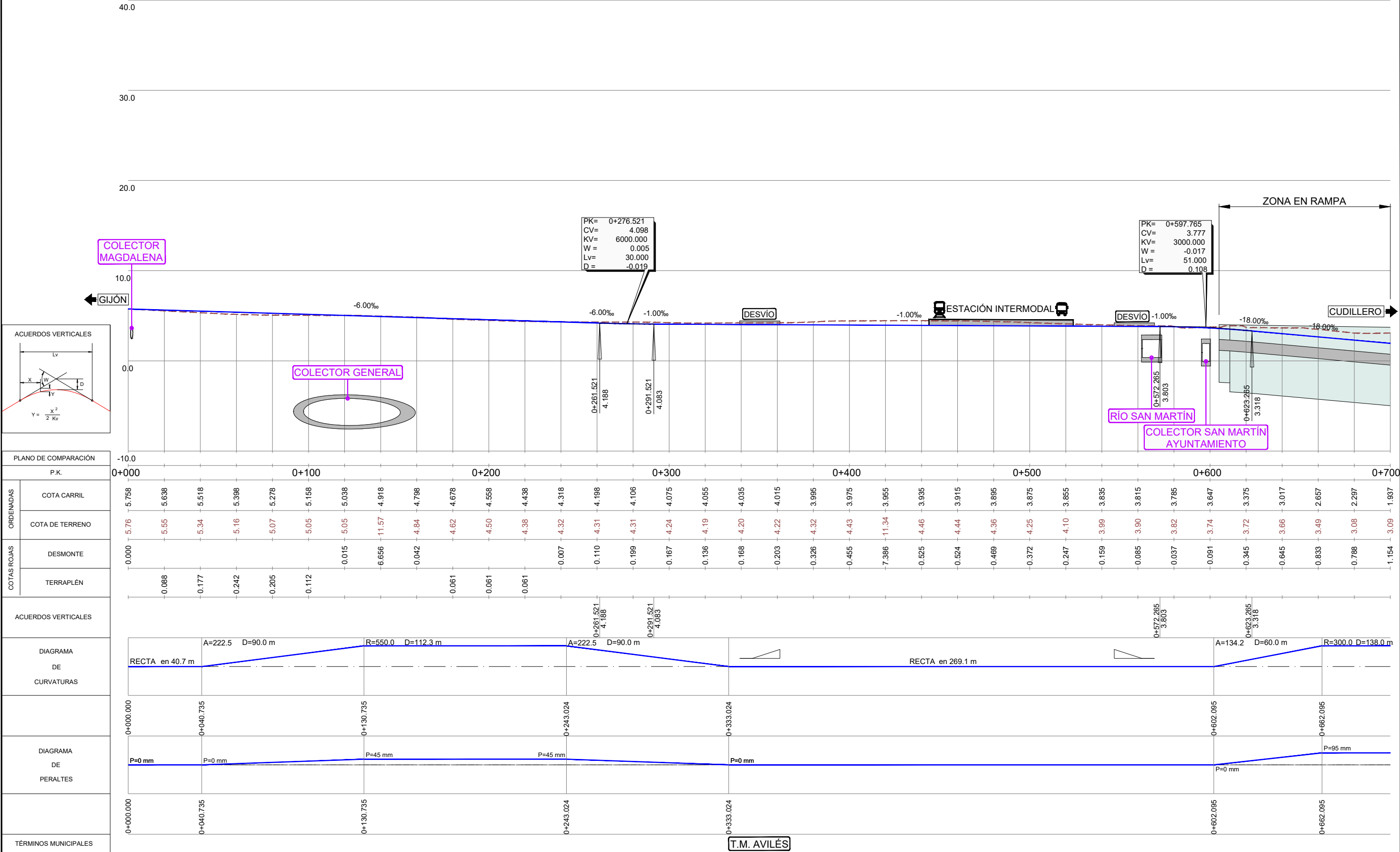
MANGO NORTE



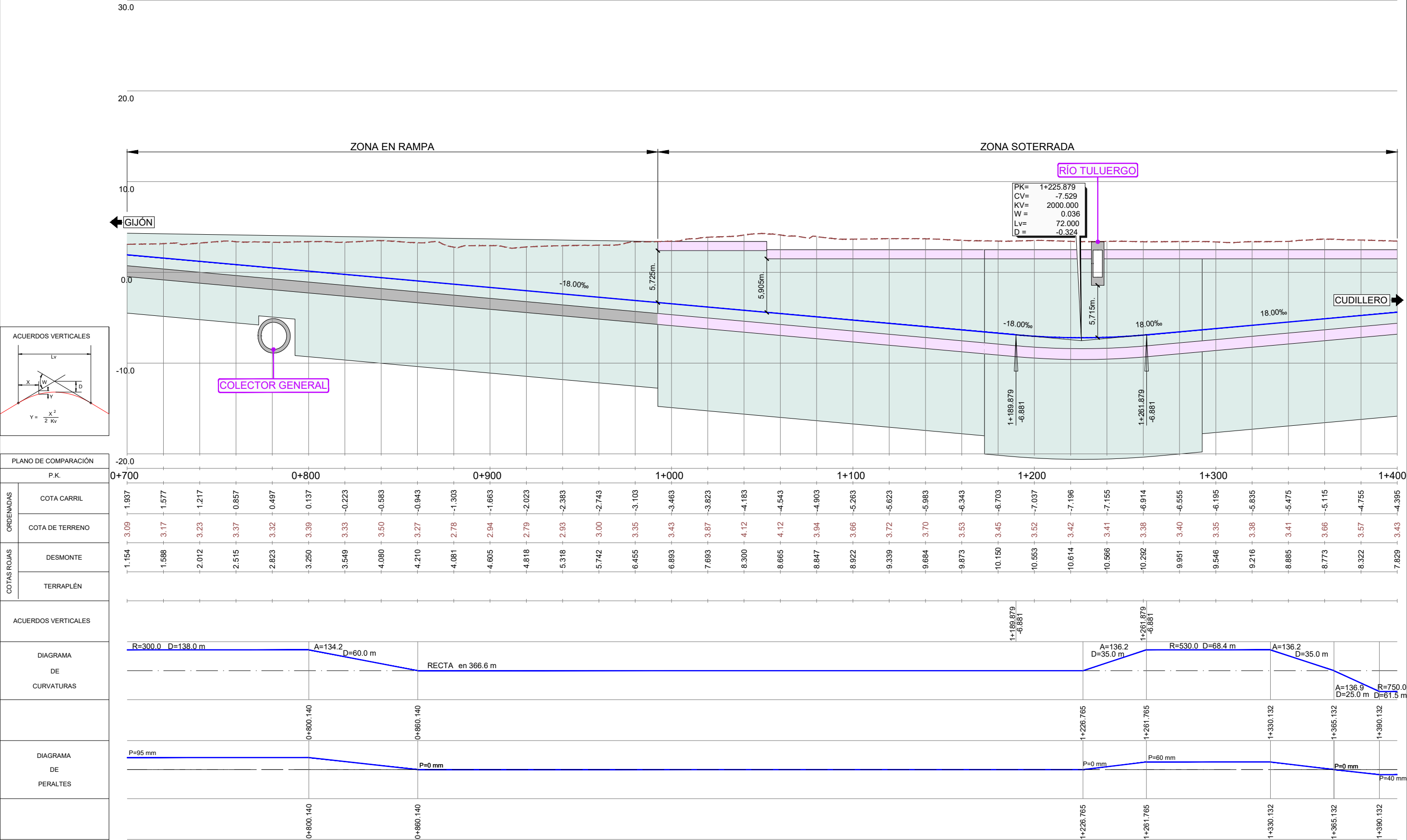
TRAVESÍA DE LA INDUSTRIA

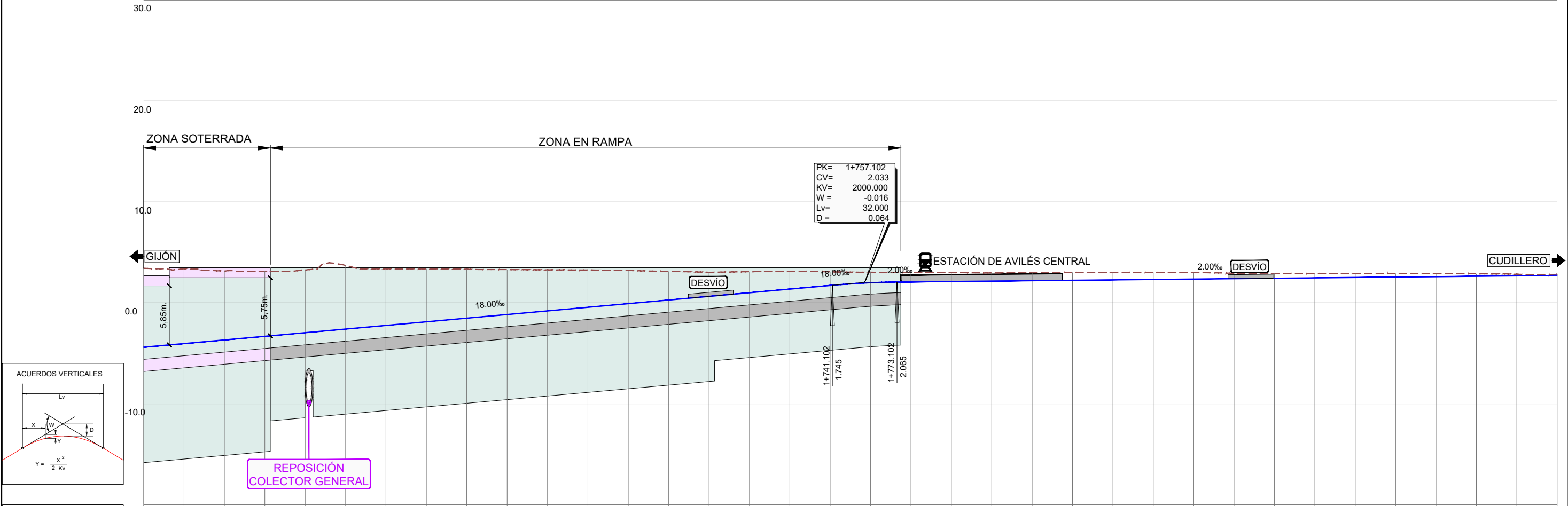
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KV= 20000.000
W= -0.002
Lv= 36.000
D= 0.008

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PLANO DE COMPARACIÓN		P.K.	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100																												
ORDENADAS	COTA CARRIL		-4.395	-3.315	-2.955	-1.875	-1.515	-1.155	-0.795	-0.435	-0.075	0.285	0.645	1.005	1.365	1.725	1.996	2.079	2.119	2.159	2.199	2.239	2.279	2.319	2.359	2.399	2.439	2.479	2.519	2.559	2.599	2.639	2.679	2.719				
	COTA DE TERRENO		3.43	3.39	3.16	3.14	3.26	3.71	3.38	3.37	3.33	3.30	3.27	3.26	3.21	3.12	3.03	3.09	3.13	3.08	3.04	3.01	2.99	2.97	3.00	3.02	2.94	2.92	2.92	2.88	2.84	2.85						
COTAS ROJAS	DESMONTE		7.829	7.421	6.830	6.455	6.210	6.304	5.615	5.247	4.842	4.452	4.066	3.692	3.280	2.832	2.386	2.083	1.765	1.352	1.040	0.935	0.873	0.810	0.802	0.778	0.742	0.705	0.646	0.541	0.481	0.441	0.401	0.359	0.308	0.242	0.161	0.133
	TERRAPLÉN																																					
ACUERDOS VERTICALES																																						
DIAGRAMA DE CURVATURAS																																						
DIAGRAMA DE PERALTES																																						
TÉRMINOS MUNICIPALES																																						

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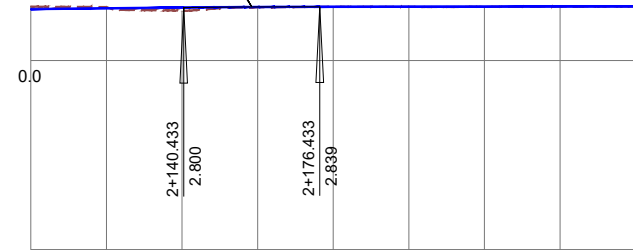
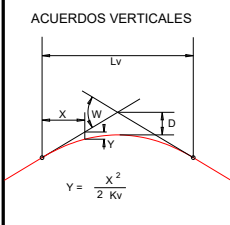
TRAVESÍA DE LA INDUSTRIA

PK= 2+158.433
CV= 2.836
KV= 20000.000
W= -0.002
LV= 36.000
D= 0.008

GIJÓN

2.00‰ 2.00‰ 0.20‰ 0.20‰

CUDILLERO



PLANO DE COMPARACIÓN		P.K.
ORDENADAS	COTA CARRIL	2+100 2+200
	COTA DE TERRENO	2+100 2+200
COTAS FOJAS	DESMONTE	2+100 2+200
	TERRAPLÉN	2+100 2+200
ACUERDOS VERTICALES		2+100 2+200
DIAGRAMA DE CURVATURAS		2+100 2+200
DIAGRAMA DE PERALTES		2+100 2+200
TÉRMINOS MUNICIPALES		2+100 2+200

0.0									
2+100					2+200				
2.719	2.759	2.799	2.829	2.840	2.844	2.848	2.852	2.856	2.860
2.85	2.83	2.64	11.23	2.84	2.84	2.84	2.86	2.86	2.86
0.133	0.070		8.398				0.004	0.004	0.004
		0.161		0.000	0.007	0.012			
	2+140.433 2.800		2+176.433 2.839						
			A=122.5 D=50.0 m		R=300.0 D=48.7 m				
RECTA	en 107.1 m								
			2+160.922		2+210.922				
P=0 mm			P=0 mm		P=80 mm				
			2+161.691		2+206.691				



TÍTULO
ESTUDIO INFORMATIVO DE LA INTEGRACIÓN
DEL FERROCARRIL EN AVILÉS

AUTOR
ANTONIO BELTRÁN PALOMO
TRN
ARYET

ESCALA
E.H. DIN A3: 1/1.000
E.V. DIN A3: 1/2.000
E.V. DIN A3: 1/400
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0 2 4 6 8m
NUMÉRICA
GRÁFICA

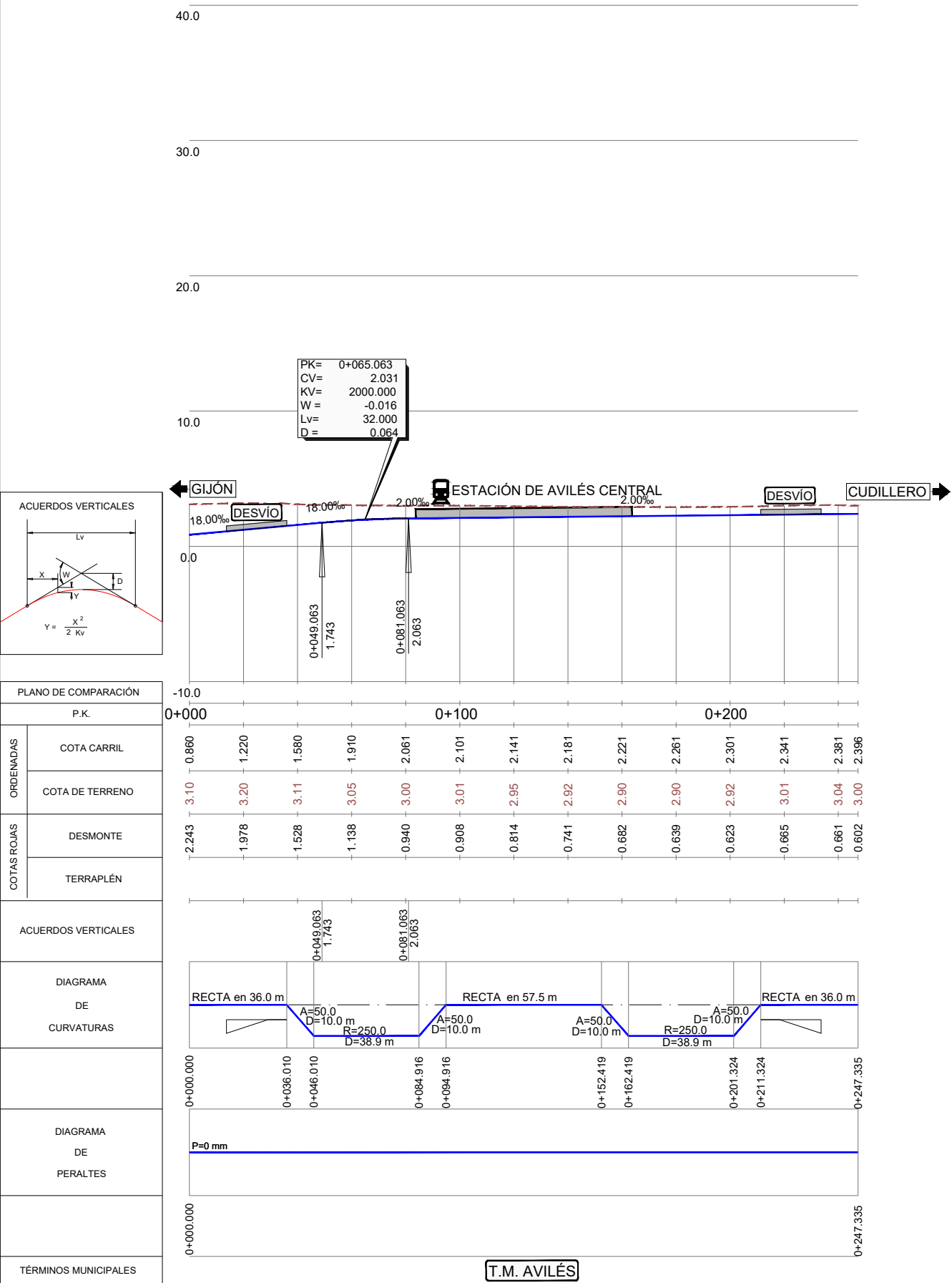
FECHA
OCTUBRE
2022

Nº DE PLANO
4.2.8
HOJA 4 DE 4

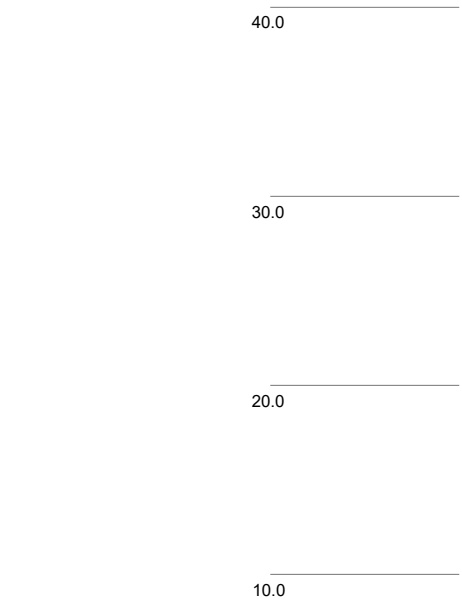
TÍTULO DEL PLANO
TRAZADO
PERFILES LONGITUDINALES
ANCHO MÉTRICO. VÍA GENERAL

 GOBIERNO DE ESPAÑA MINISTERIO DE TRANSPORTES, MOVILIDAD Y AGENDA URBANA	TÍTULO ESTUDIO INFORMATIVO DE LA INTEGRACIÓN DEL FERROCARRIL EN AVILÉS	AUTOR  ANTONIO BELTRÁN PALOMO 	ESCALA E.H. DIN A3: 1/1.000 E.V. DIN A1: 1/200 E.V. DIN A3: 1/400 NUMÉRICA	 GRÁFICA	FECHA OCTUBRE 2022	Nº DE PLANO 4.2.9	TÍTULO DEL PLANO TRAZADO PERFILES LONGITUDINALES ANCHO MÉTRICO. VÍA DE APARTADO ESTACIÓN INTERMODAL
						HOJA 1 DE 1	

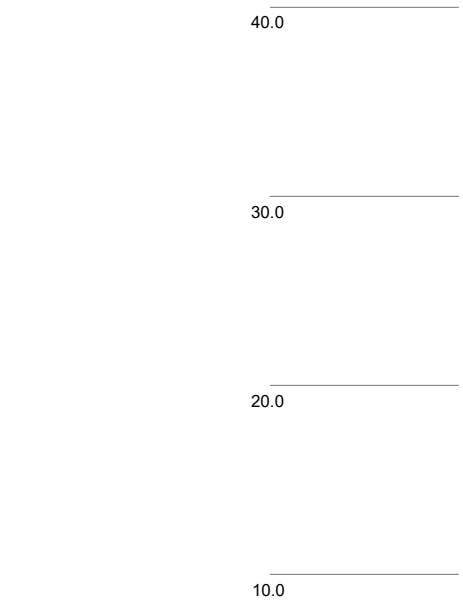
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\\Pianos\04.02.11.TRAZADO_LONGITUDINALES-MÉTRICO MANGOS CENTRAL.dwg



ACUERDOS VERTICALES			
PLANO DE COMPARACIÓN		-10.0	
P.K.		0+000	
ORDENADAS	COTA CARRIL	1.104	0.744
	COTA DE TERRENO	3.20	3.15
COTAS ROJAS	DESMONTE	2.099	2.411
	TERRAPLÉN	2.733	2.884
ACUERDOS VERTICALES		0+000.000	
DIAGRAMA DE CURVATURAS		RECTA en 50.0 m	
DIAGRAMA DE PERALTES		P=0 mm	
TÉRMINOS MUNICIPALES		T.M. AVILÉS	



ACUERDOS VERTICALES			
PLANO DE COMPARACIÓN		-10.0	
P.K.		0+000	
ORDENADAS	COTA CARRIL	2.368	2.408
	COTA DE TERRENO	3.03	3.01
COTAS ROJAS	DESMONTE	0.665	0.604
	TERRAPLÉN	0.481	0.425
ACUERDOS VERTICALES		0+000.000	
DIAGRAMA DE CURVATURAS		RECTA en 50.0 m	
DIAGRAMA DE PERALTES		P=0 mm	
TÉRMINOS MUNICIPALES		T.M. AVILÉS	