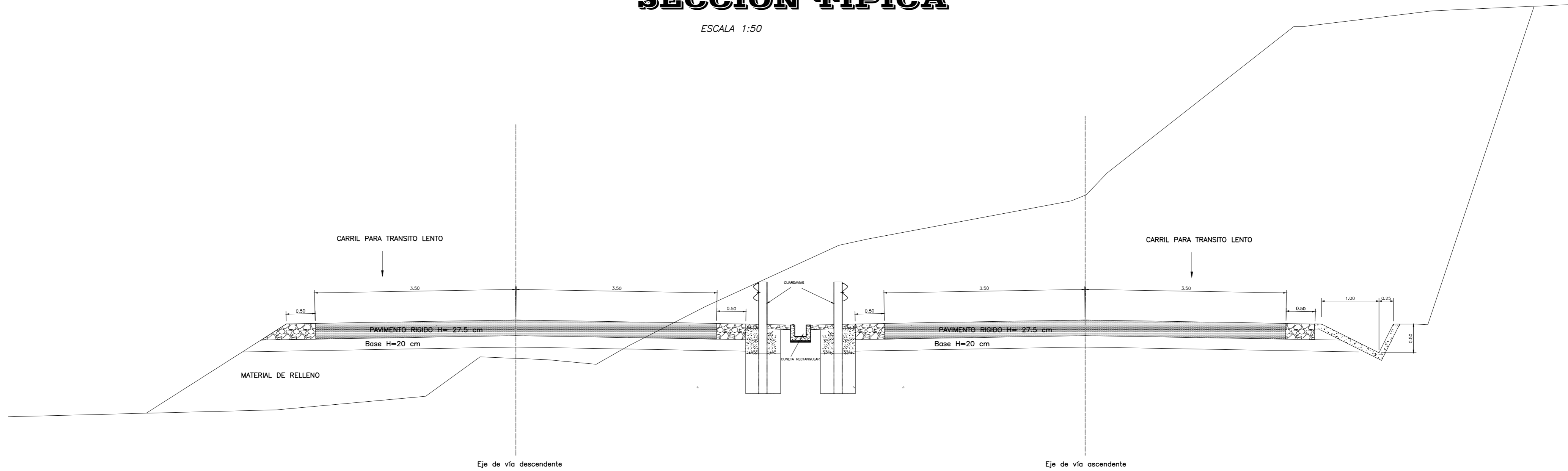


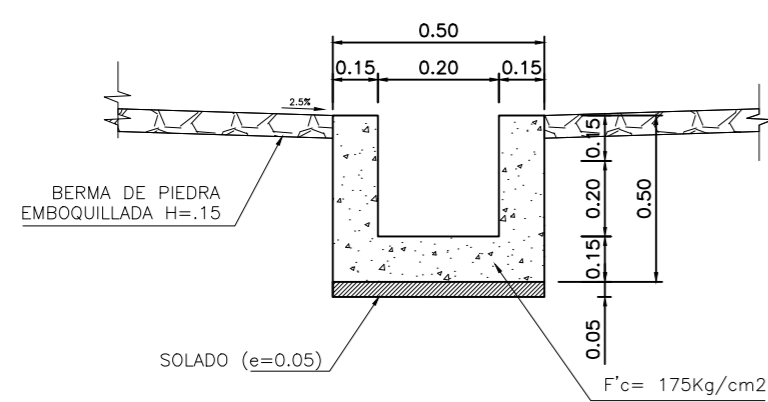
SECCION TIPICA

ESCALA 1:50

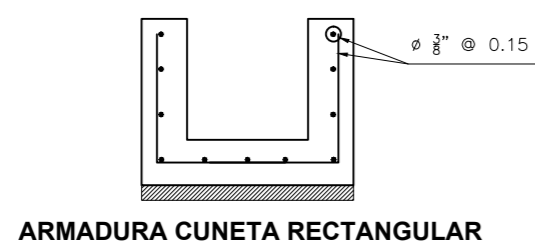


CUNETA RECTANGULAR

ESCALA 1:25



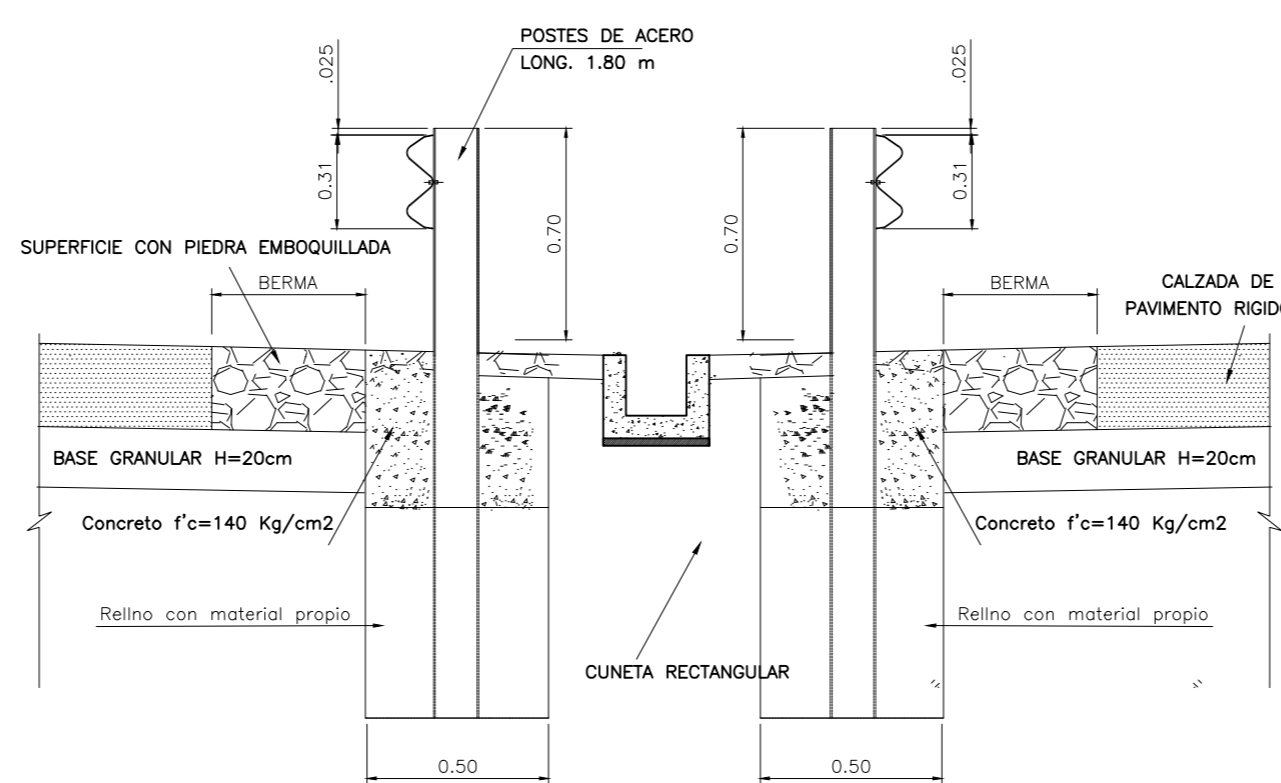
SECCION TRANSVERSAL
CUNETA RECTANGULAR



ARMADURA CUNETA RECTANGULAR

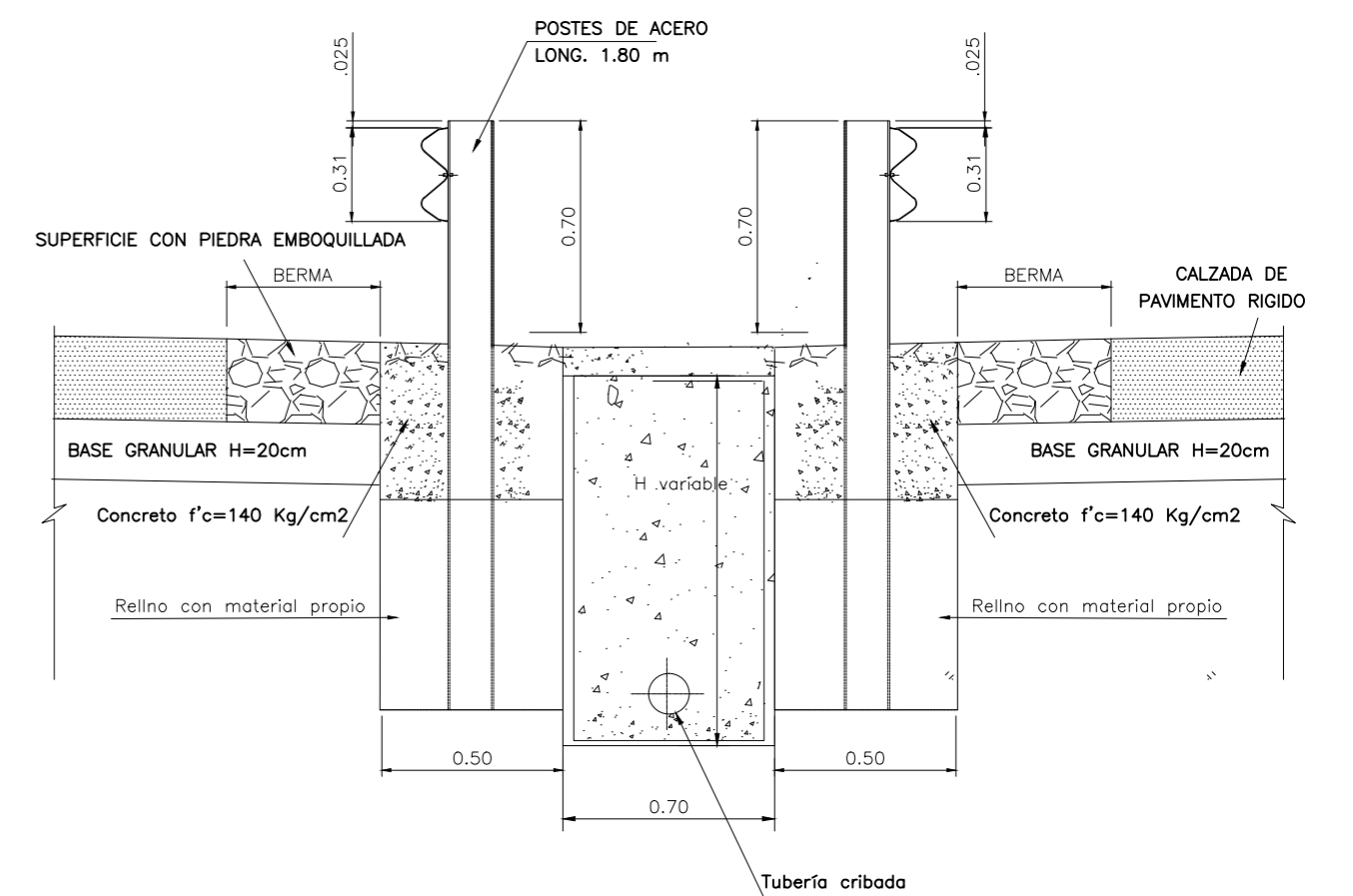
SECCION TIPICA CON CUNETA RECTANGULAR

ESCALA 1:25



SECCION TIPICA CON SUB DREN

ESCALA 1:25



TITULO :
PLANO DE DETALLES TIPICOS
CARRILES DE SOBREPASO

ESCALA: INDICADA
FECHA: DICIEMBRE 2017
DET -01

PLANO PLANTA SECTOR KM 225

ESCALA 1:750

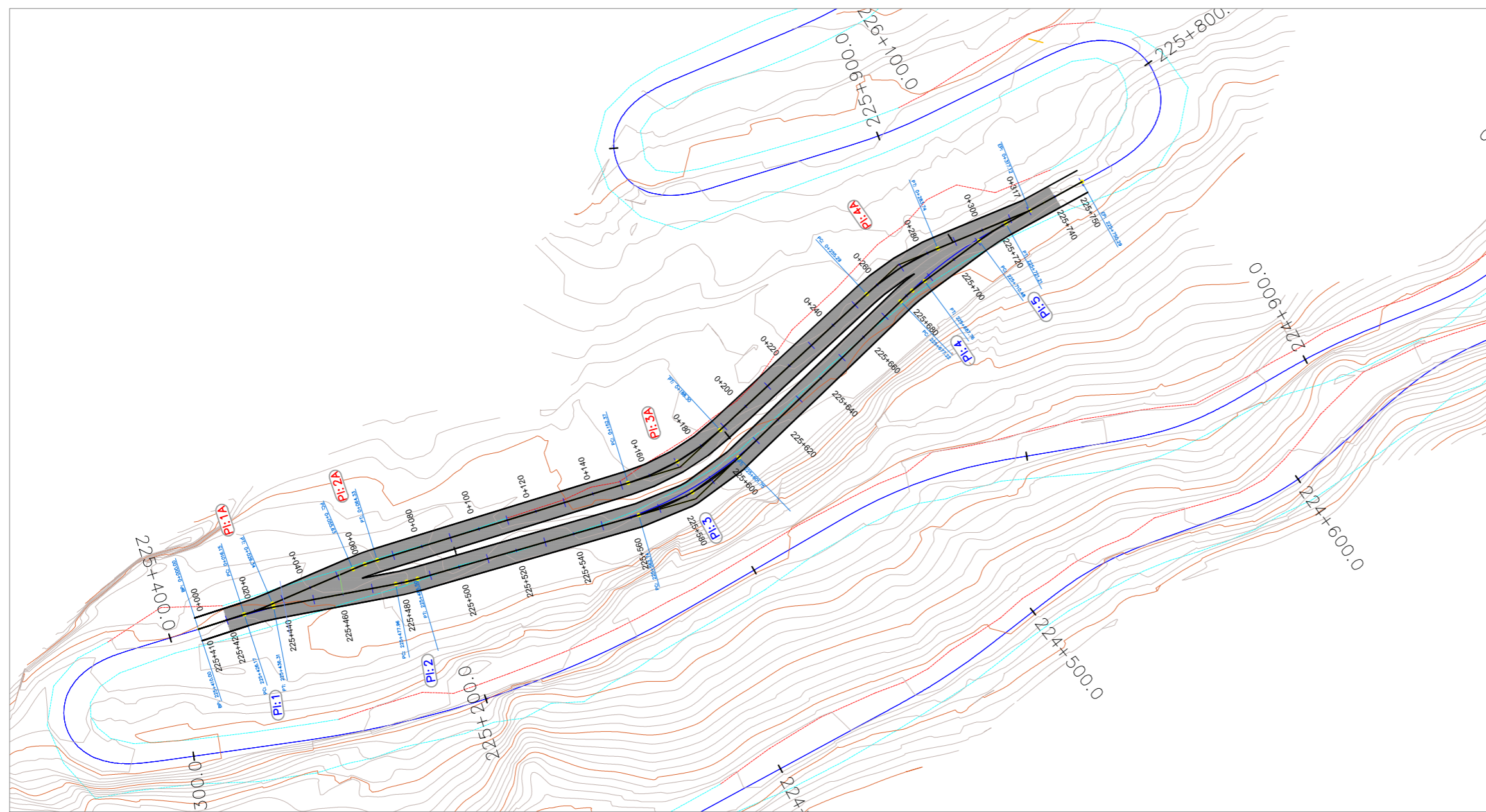
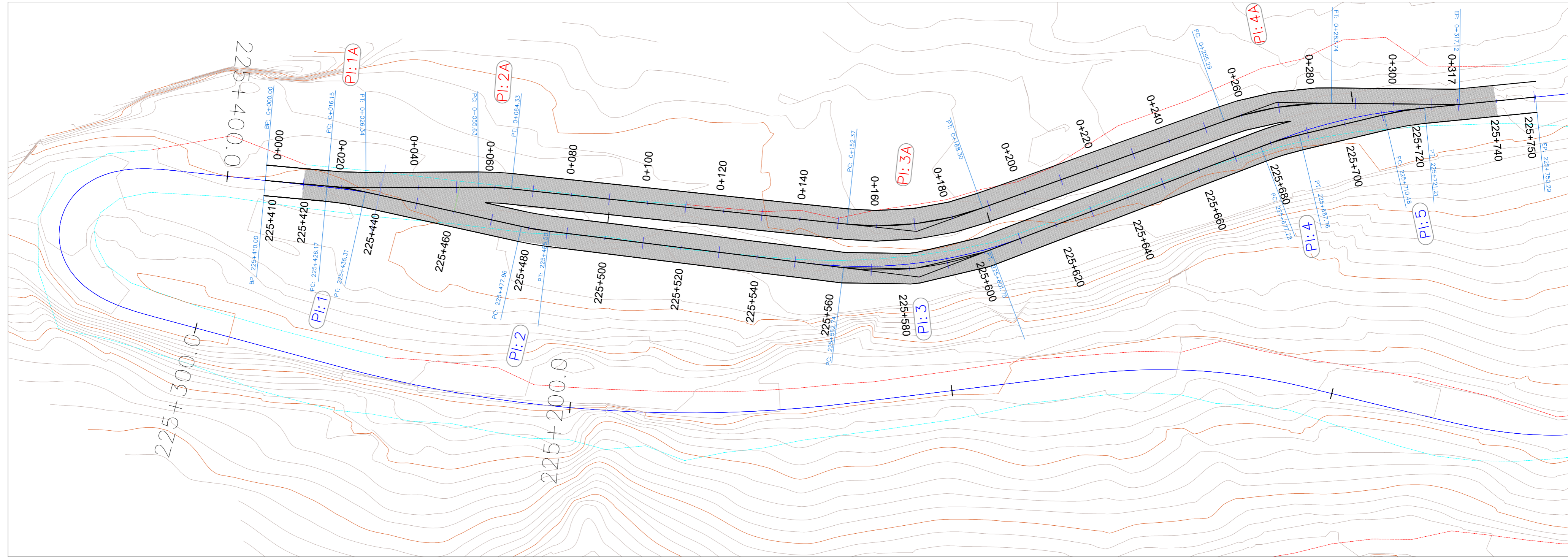
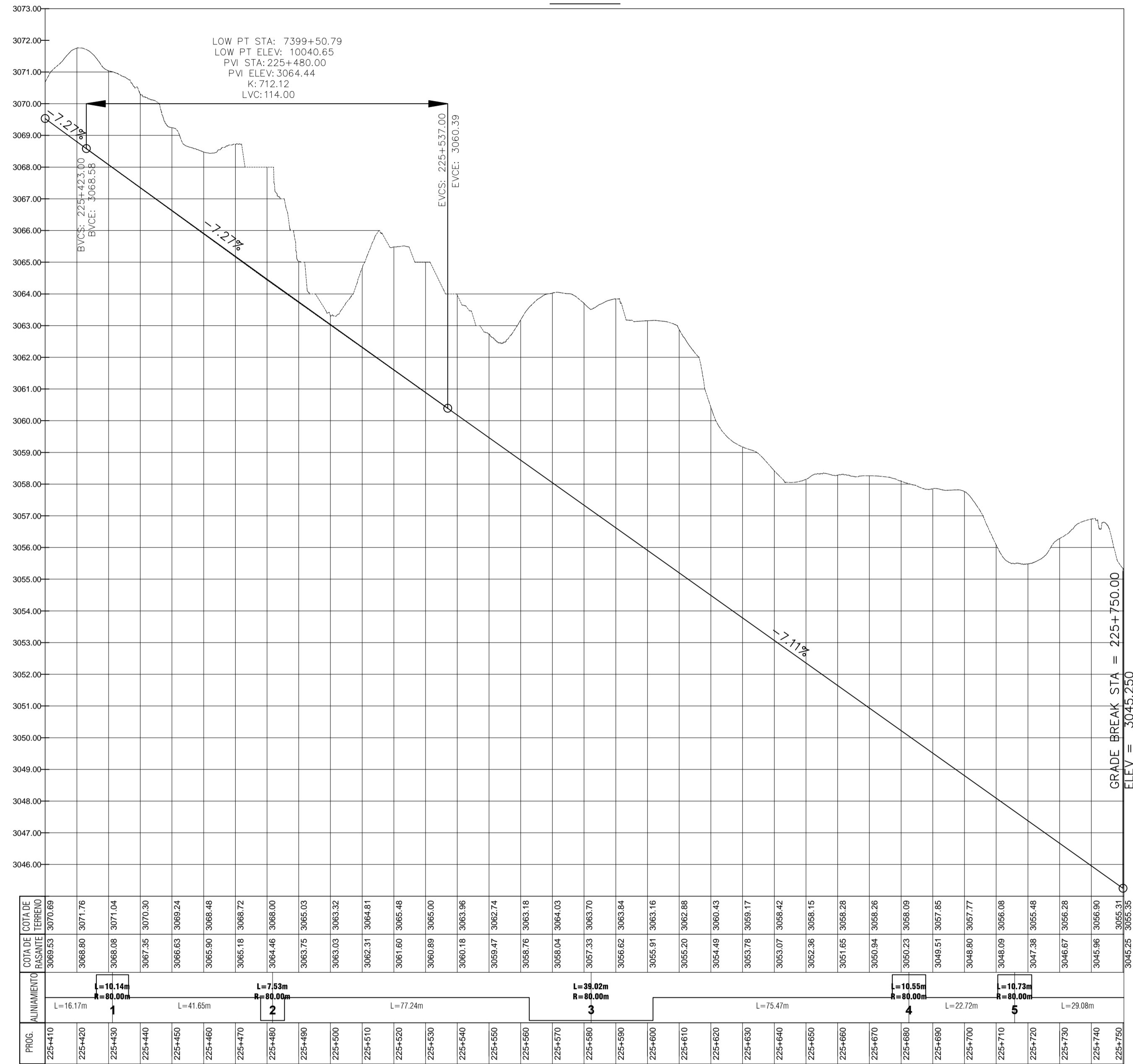


TABLA DE ELEMENTOS DE CURVA													
PI #	Δ	TANGENTE	RADIO	LOG. DE CURVA	CUERDA	ANG. DE CUERDA	FLECHA	EXTERNA	PROG. PC	PROG. PI	PROG. PT	NORTE	ESTE
PI: 2	5°23'37"	3.768	80.00	7.53	7.528	N76° 38' 39"E	0.089	0.089	225+477.96	225+481.73	225+485.50	8469811.735	338849.771
PI: 3	27°56'39"	19.905	80.00	39.02	38.632	N59° 58' 31"E	2.367	2.439	225+562.74	225+582.64	225+601.75	8469839.640	338946.750
PI: 4	7°33'09"	5.280	80.00	10.55	10.537	N49° 46' 45"E	0.174	0.174	225+677.22	225+682.50	225+687.76	8469909.554	339019.156
PI: 5	7°41'00"	5.372	80.00	10.73	10.720	N57° 23' 50"E	0.180	0.180	225+710.48	225+715.86	225+721.21	8469929.379	339046.002
PI: 1	5°25'50"	5.098	107.49	10.19	10.185	N69° 21' 57"E	0.121	0.121	0+016.15	0+021.25	0+026.34	8469802.395	338800.144

TABLA DE ELEMENTOS DE CURVA													
PI #	Δ	TANGENTE	RADIO	LOG. DE CURVA	CUERDA	ANG. DE CUERDA	FLECHA	EXTERNA	PROG. PC	PROG. PI	PROG. PT	NORTE	ESTE
PI: 1A	5°25'50"	5.098	107.49	10.19	10.185	N69° 21' 57"E	0.121	0.121	0+016.15	0+021.25	0+026.34	8469802.395	338800.144
PI: 2A	6°14'01"	4.356	80.00	8.70	8.699	N69° 46' 02"E	0.118	0.119	0+055.63	0+059.98	0+064.33	8469817.750	338835.714
PI: 3A	25°43'43"	18.270	80.00	35.92	35.623	N60° 01' 11"E	2.008	2.060	0+152.37	0+170.64	0+188.30	8469850.320	338941.481
PI: 4A	20°22'24"	14.375	80.00	28.45	28.297	N57° 20' 32"E	1.261	1.281	0+255.29	0+269.67	0+283.74	8469918.078	339014.539

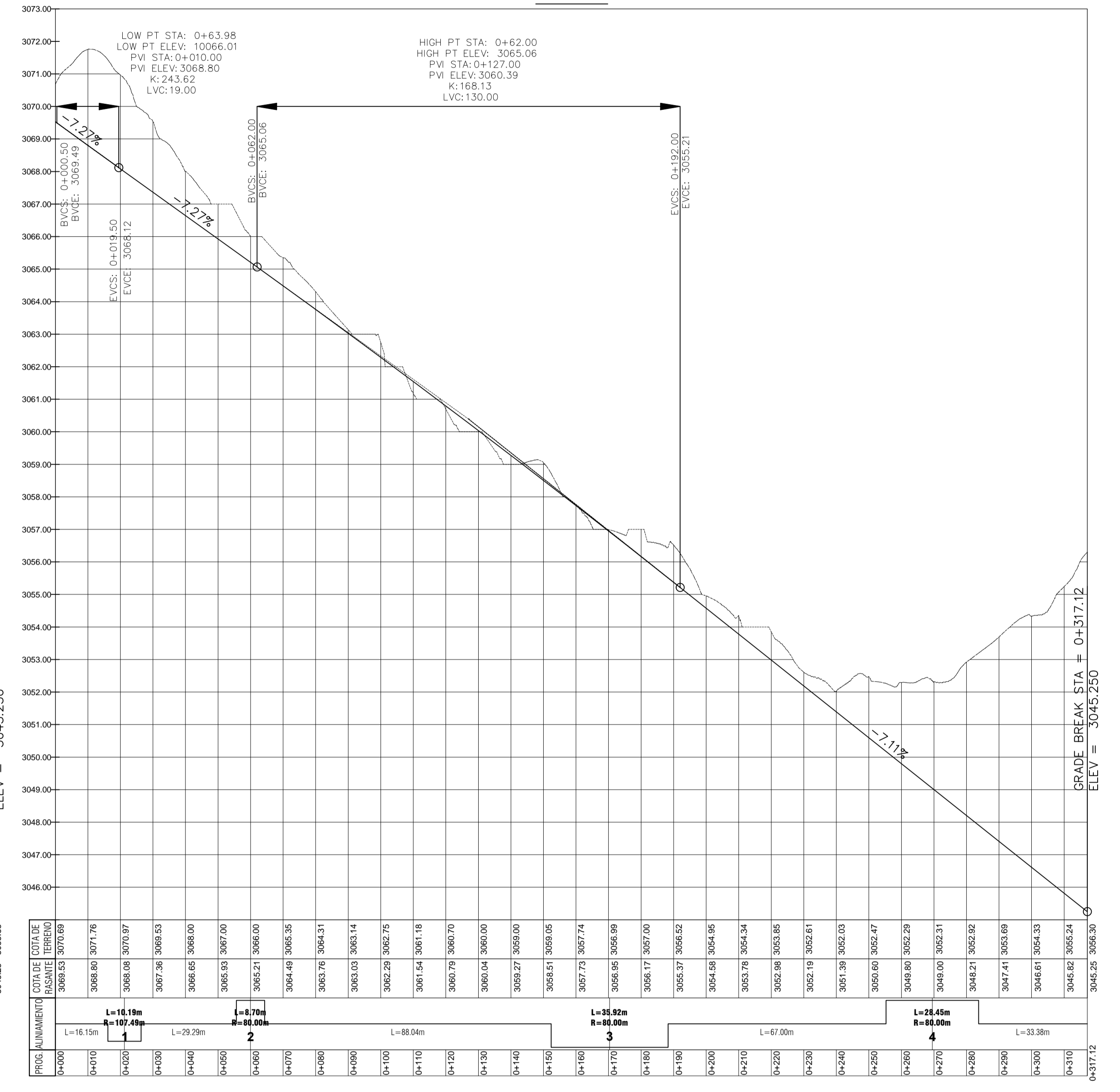
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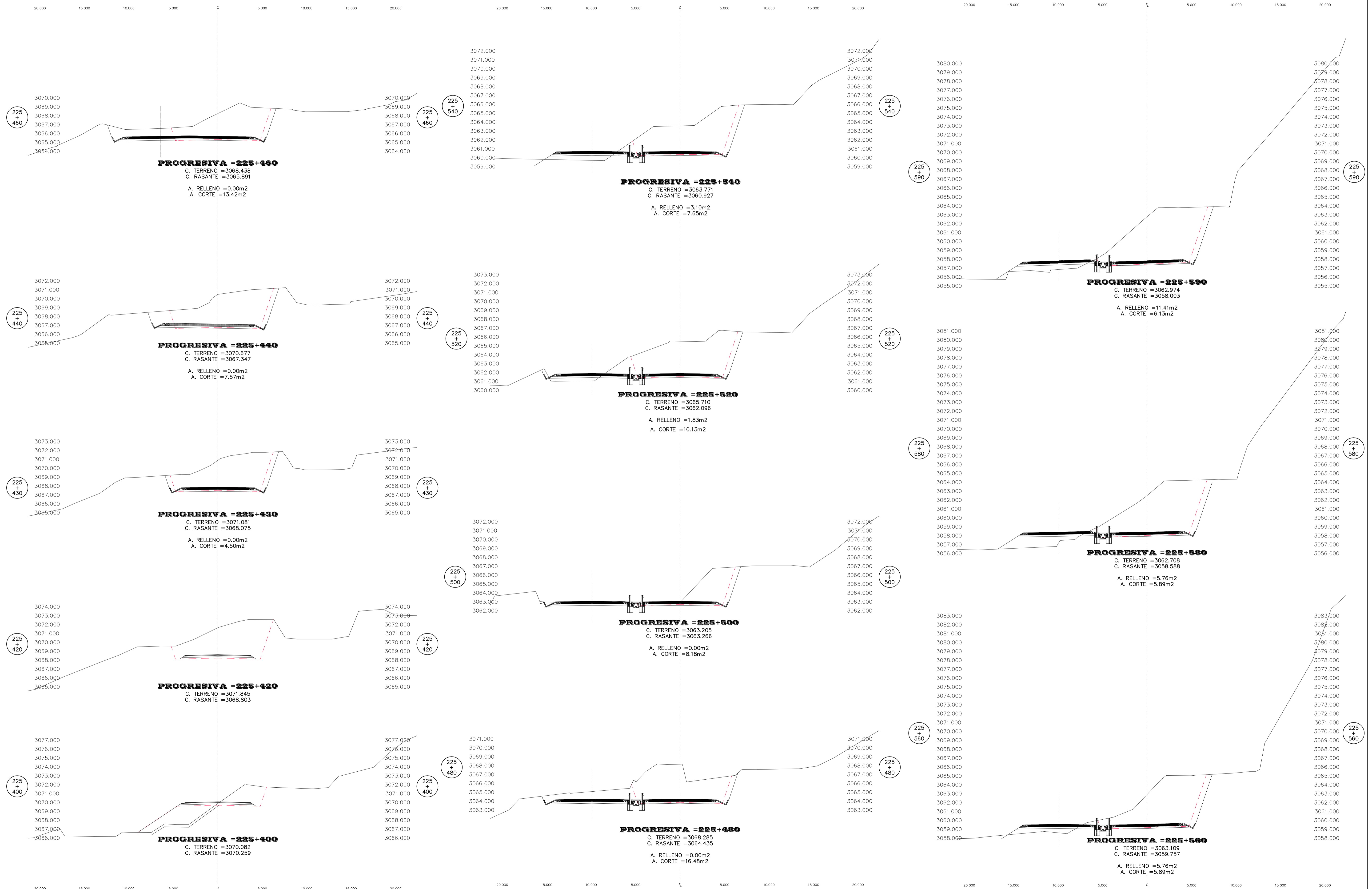
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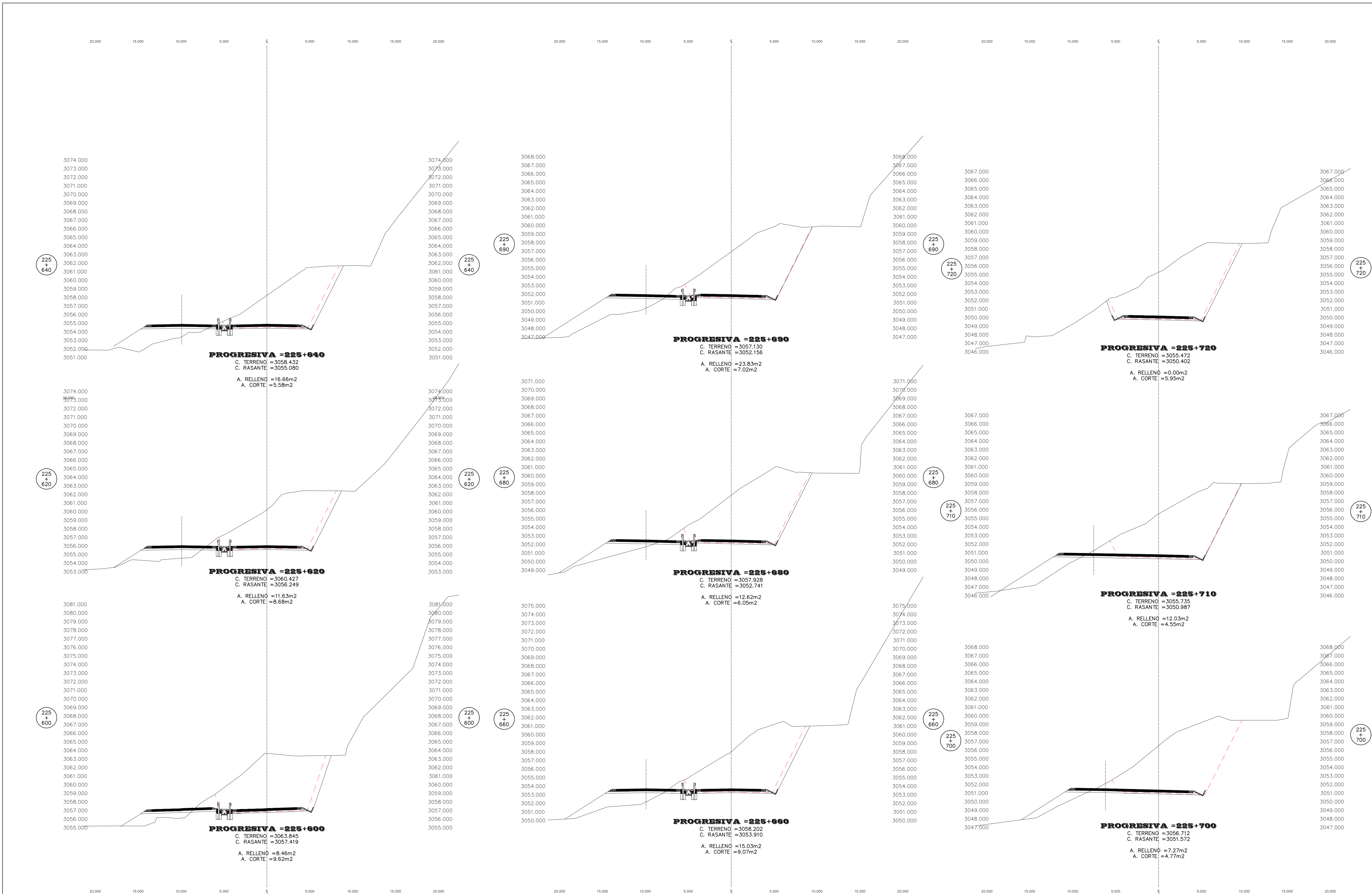


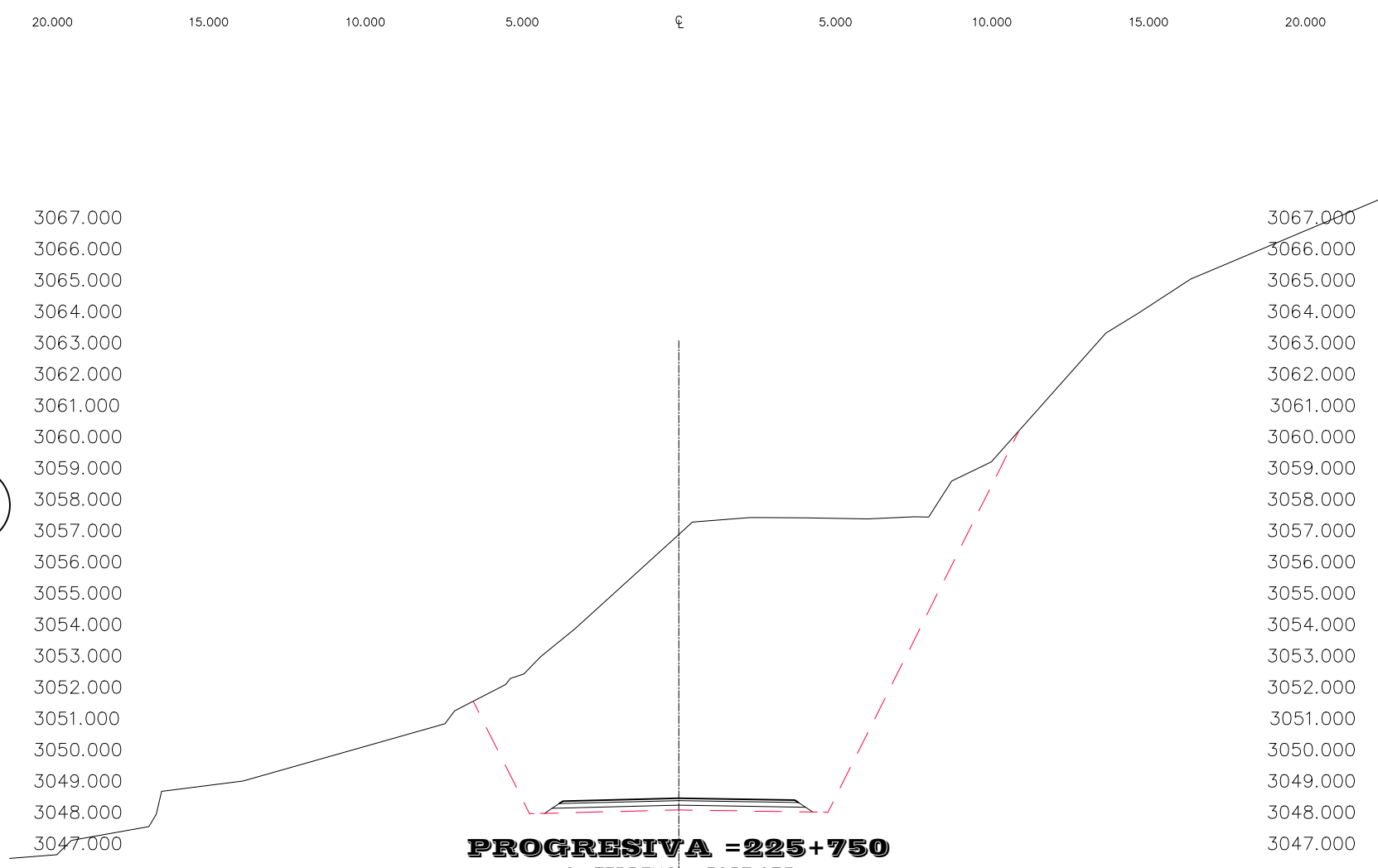
PERFIL LONGITUDINAL CARRILES EN SENTIDO DESCENDENTE

H:1000
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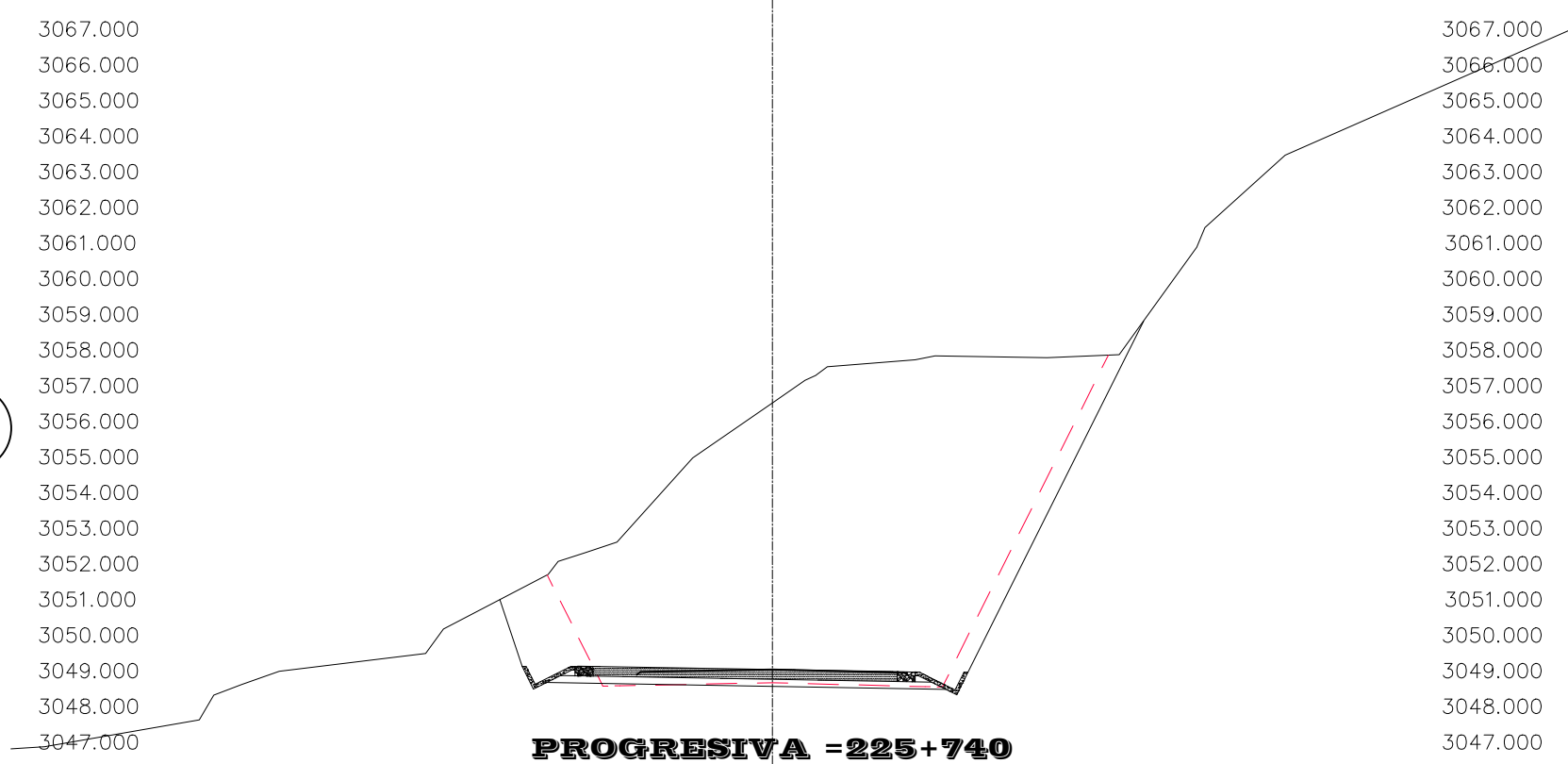






PROGRESIVA = 225+750

C. TERRENO = 3057.073
 C. RASANTE = 3048.648
 A. RELLENO = 0.00m²
 A. CORTE = 104.94m²



PROGRESIVA = 225+740

C. TERRENO = 3056.711
 C. RASANTE = 3049.233
 A. RELLENO = 0.00m²
 A. CORTE = 13.07m²

20.000 15.000 10.000 5.000 0 5.000 10.000 15.000 20.000

TITULO : SECCIONES TRASNVERSALES CARRILES DE SOBREPASO SECTOR Km 225	ESCALA: 1 : 200
	FECHA: DICIEMBRE 2017
	ST_225_03

PLANO PLANTA SECTOR KM 317

ESCALA 1:750

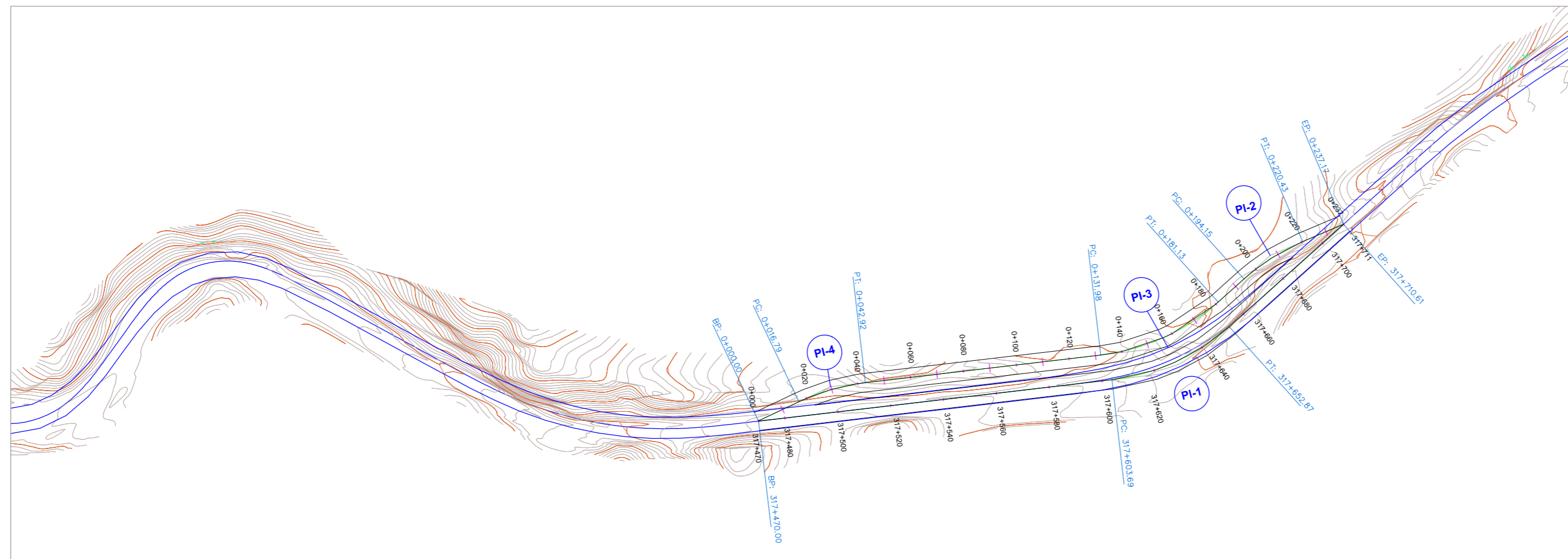
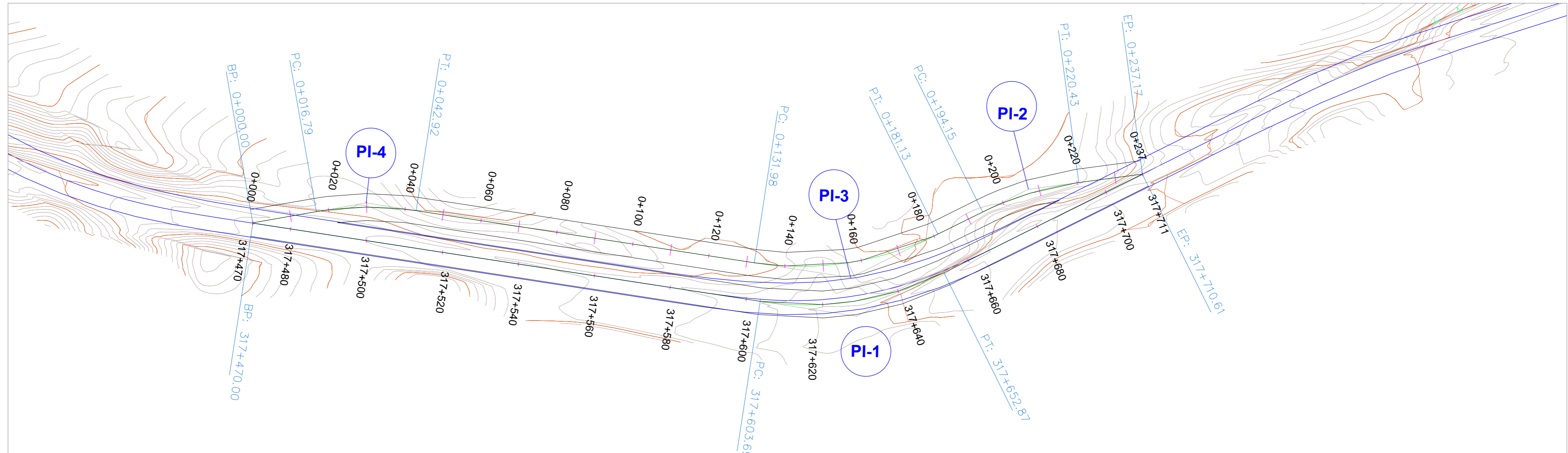


TABLA DE ELEMENTOS DE CURVA

PI #	Δ	TANGENTE	RADIO	LOG. DE CURVA	CUERDA	ANG. DE CUERDA	FLECHA	EXTERNA	PROG. PC	PROG. PI	PROG. PT	NORTE	ESTE
PI-1	35°13'07"	25.392	80.00	49.17	48.404	N40° 19' 22"E	3.749	3.933	317+603.69	317+629.08	317+652.87	8522105.220	354432.653
PI-2	18°49'20"	13.260	80.00	26.28	26.163	N32° 08' 21"E	1.077	1.091	0+194.15	0+207.41	0+220.43	8522159.456	354444.856
PI-3	35°12'15"	25.381	80.00	49.15	48.385	N40° 19' 48"E	3.746	3.930	0+131.98	0+157.36	0+181.13	8522111.806	354424.895
PI-4	18°42'30"	13.178	80.00	26.12	26.006	N48° 34' 41"E	1.064	1.078	0+016.79	0+029.97	0+042.92	8522044.050	354316.749

TITULO :

PLANO PLANTA
CARRILE DE SOBREPASO
SECTOR Km 317

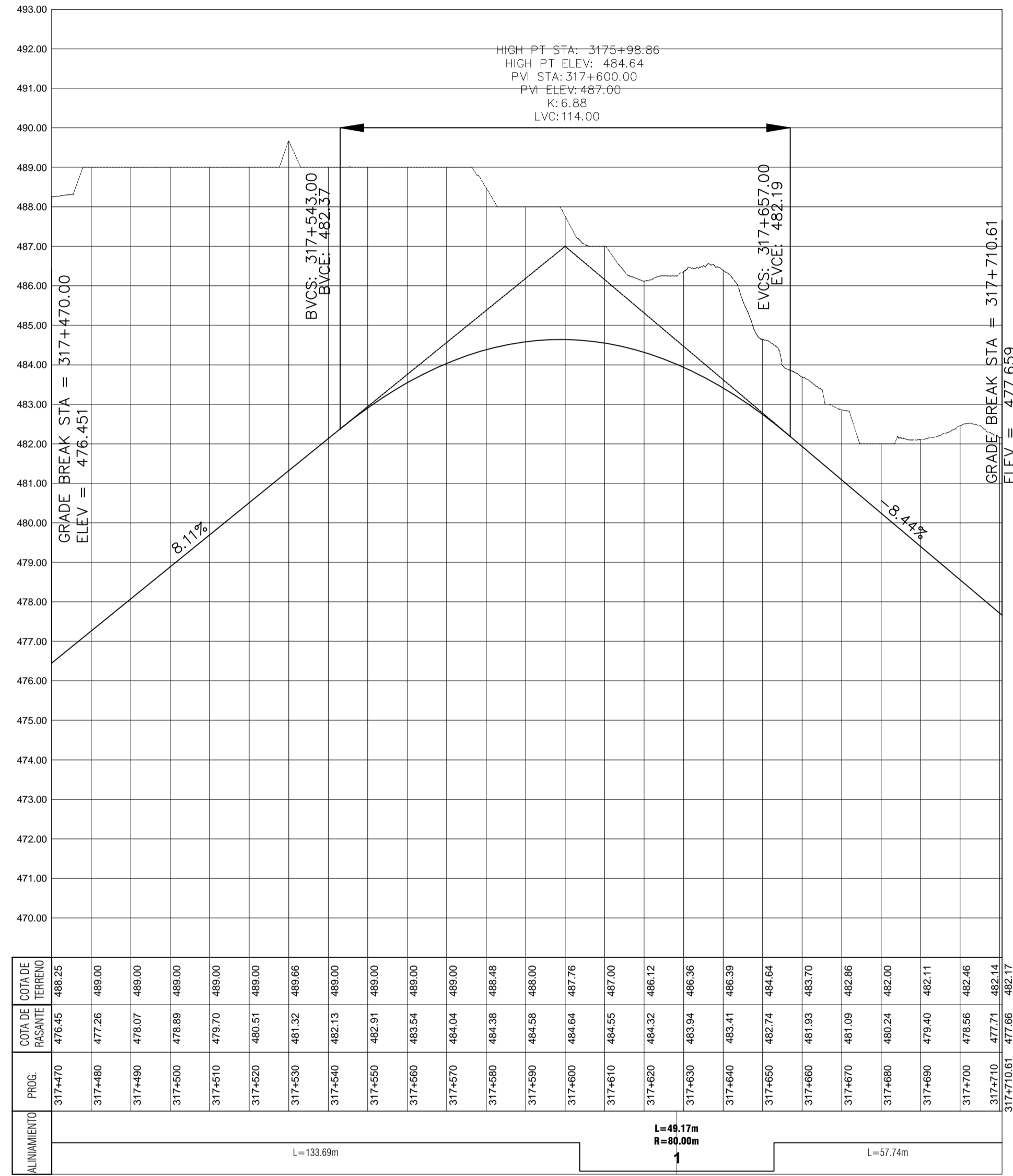
ESCALA: 1 : 750

FECHA: DICIEMBRE, 2017

PP_317_01

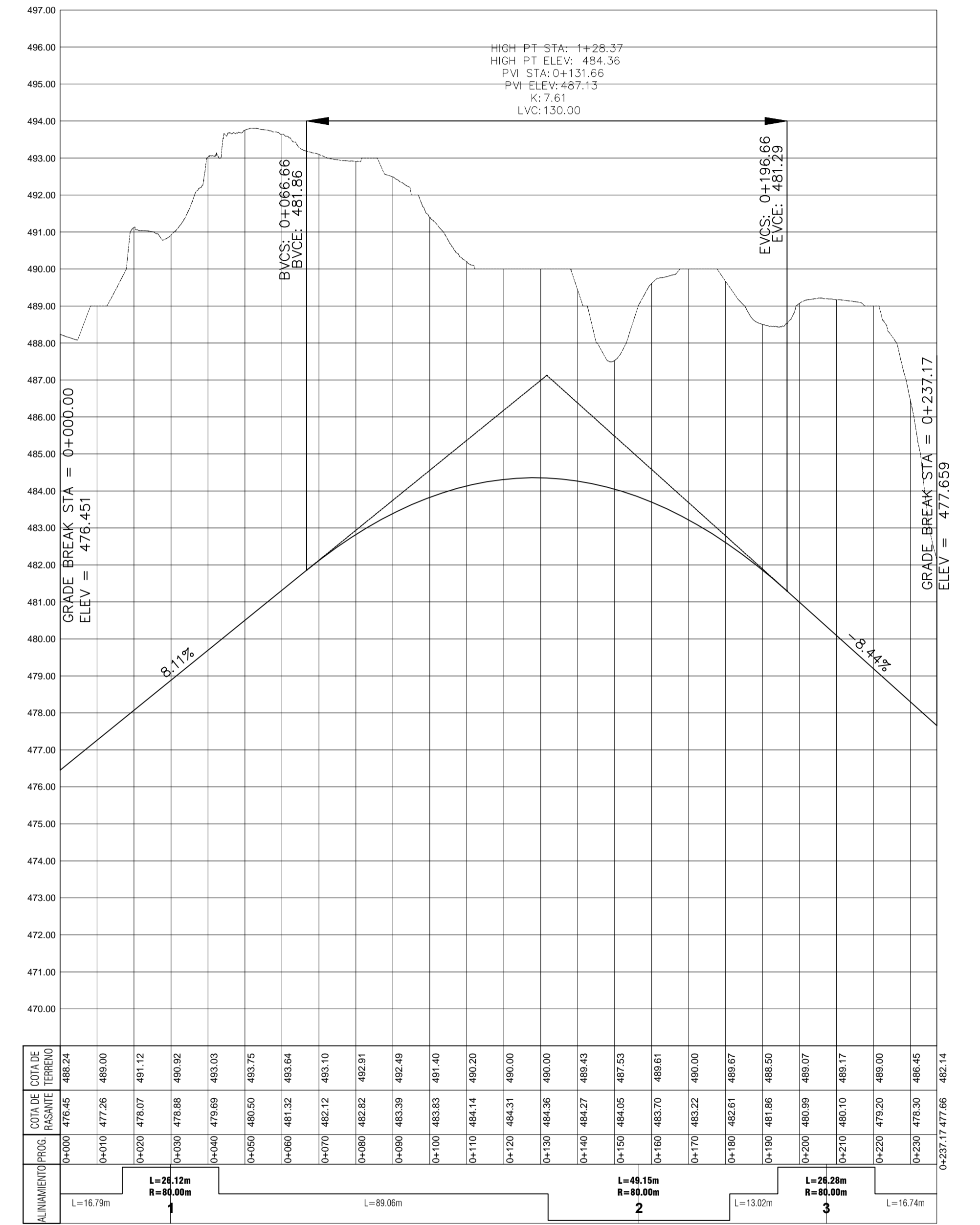
PERFIL DE ALINEAMIENTO ASCENDENTE

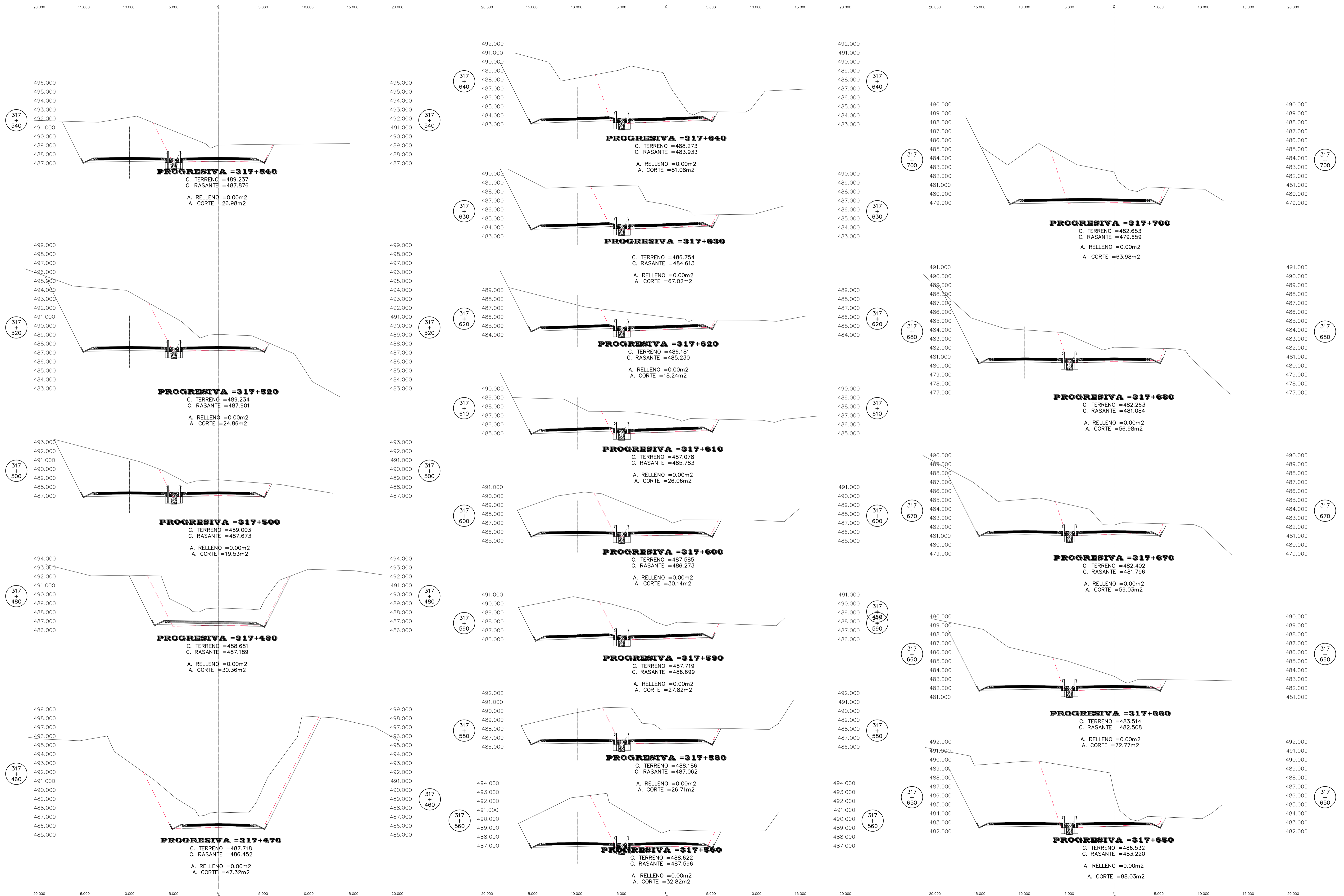
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PERFIL DE ALINEAMIENTO DESCENDENTE

H:1000
V:100





PLANO PLANTA SECTOR KM 343

ESCALA 1:750

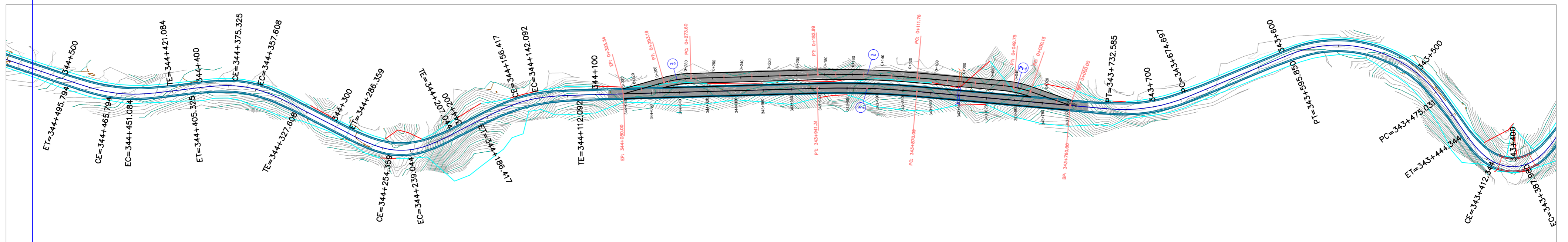
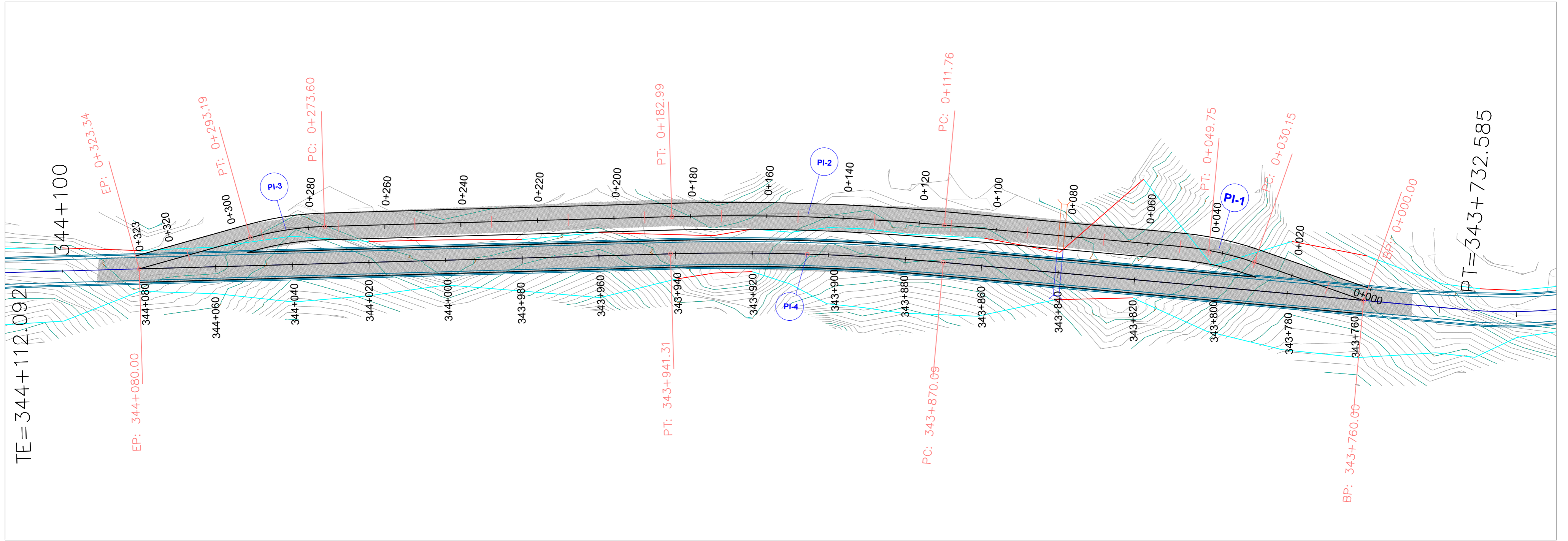


TABLA DE ELEMENTOS DE CURVA

PI #	Δ	TANGENTE	RADIO	LOG. DE CURVA	CUERDA	ANG. DE CUERDA	FLECHA	EXTERNA	PROG. PC	PROG. PI	PROG. PT	NORTE	ESTE
PI-4	6°48'05"	35.654	600.00	71.22	71.183	N62° 43' 56"W	1.057	1.058	343+905.74	343+941.31	343+941.31	8536201.714	353877.991
PI-2	6°48'05"	35.654	600.00	71.22	71.183	N62° 43' 56"W	1.057	1.058	0+111.76	0+147.41	0+182.99	8536210.351	353882.443
PI-3	14°02'03"	9.847	80.00	19.60	19.546	N73° 09' 00"W	0.599	0.604	0+273.60	0+283.44	0+293.19	8536265.424	353757.971
PI-1	14°02'03"	9.847	80.00	19.60	19.546	N52° 18' 52"W	0.599	0.604	0+030.15	0+040.00	0+049.75	8536155.512	353974.919

TITULO :
PLANO PLANTA
CARRILE DE SOBREPASO
 SECTOR Km 343

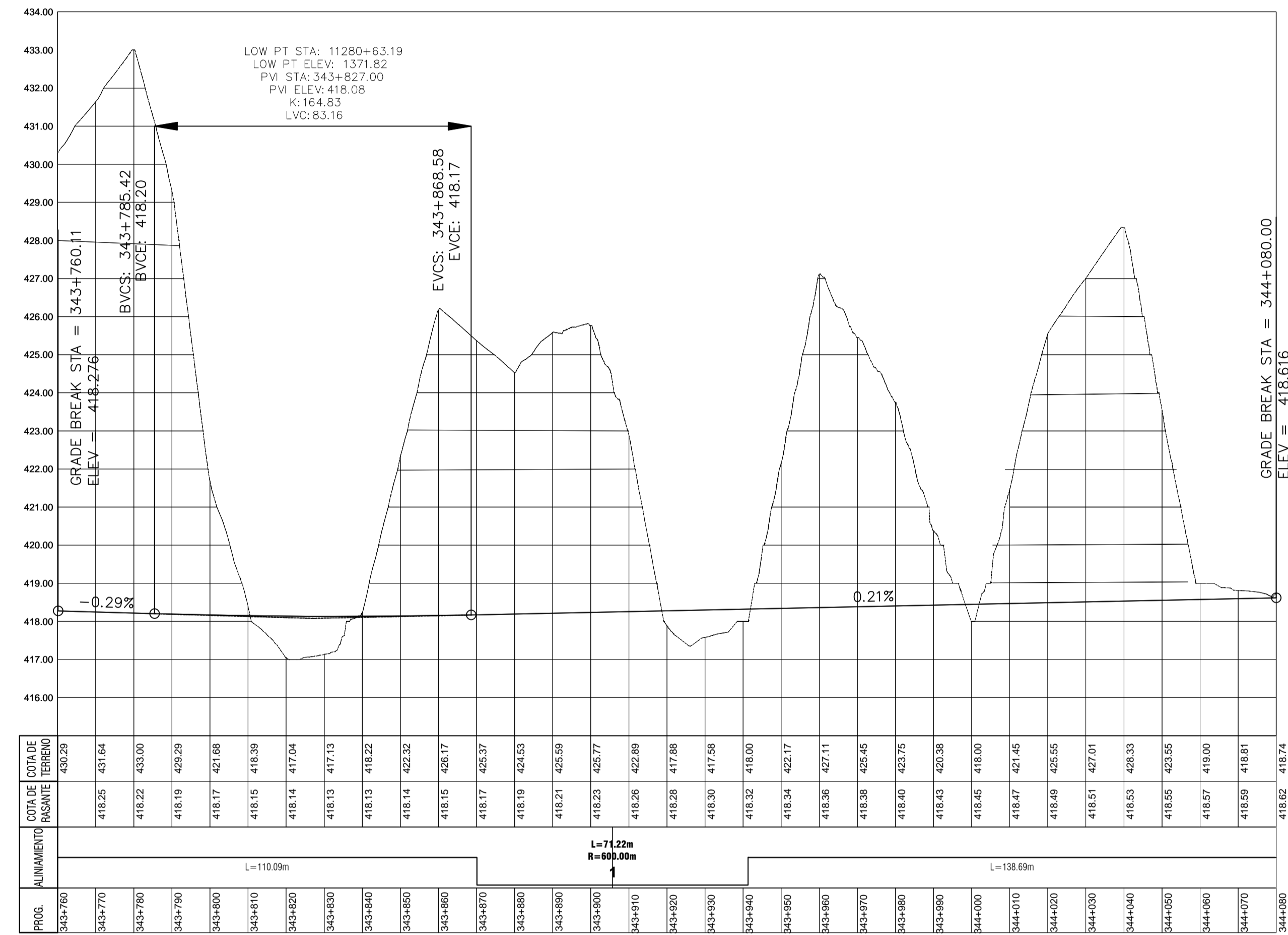
ESCALA: 1 : 750

FECHA: DICIEMBRE 2017

PP_343_01

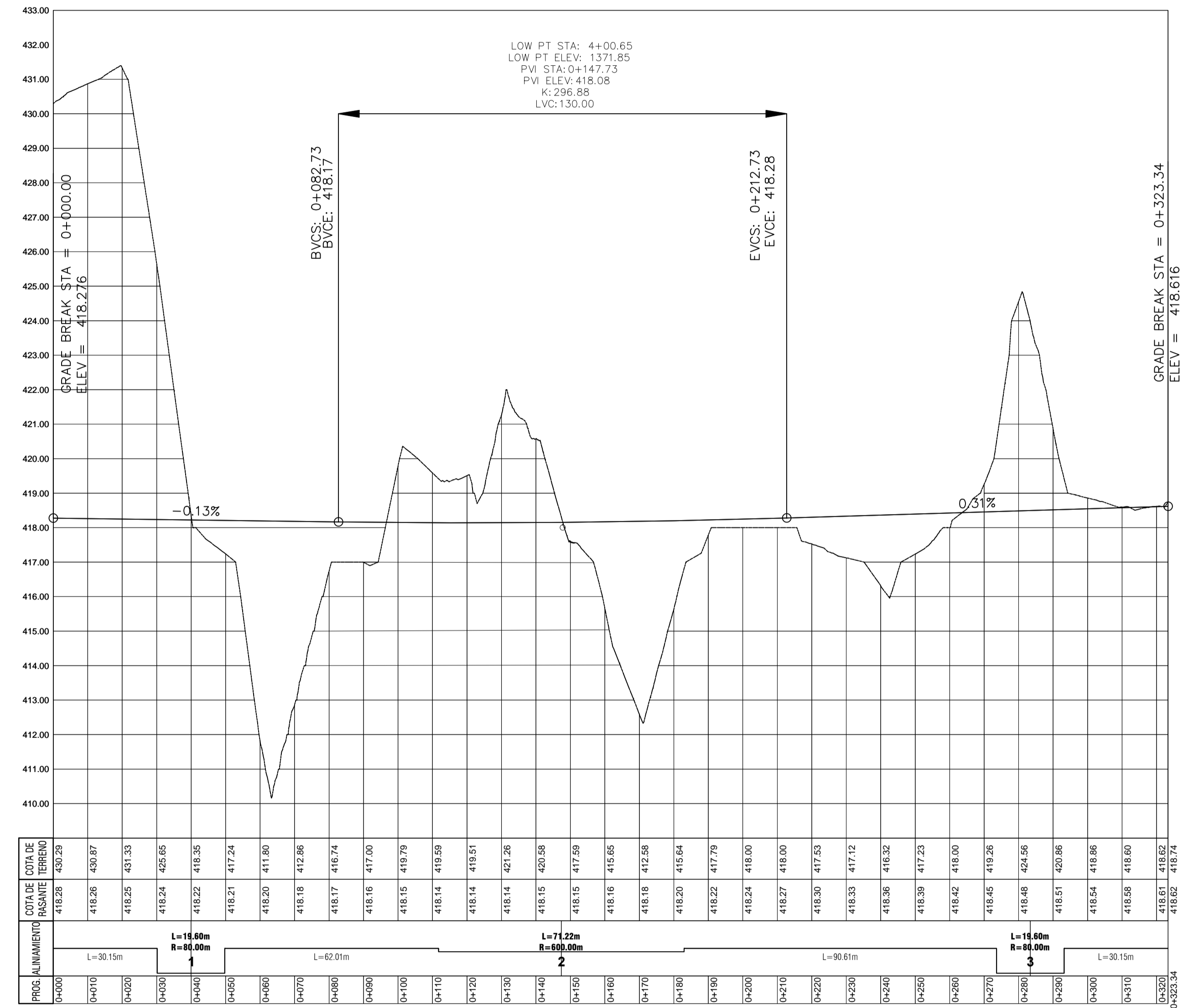
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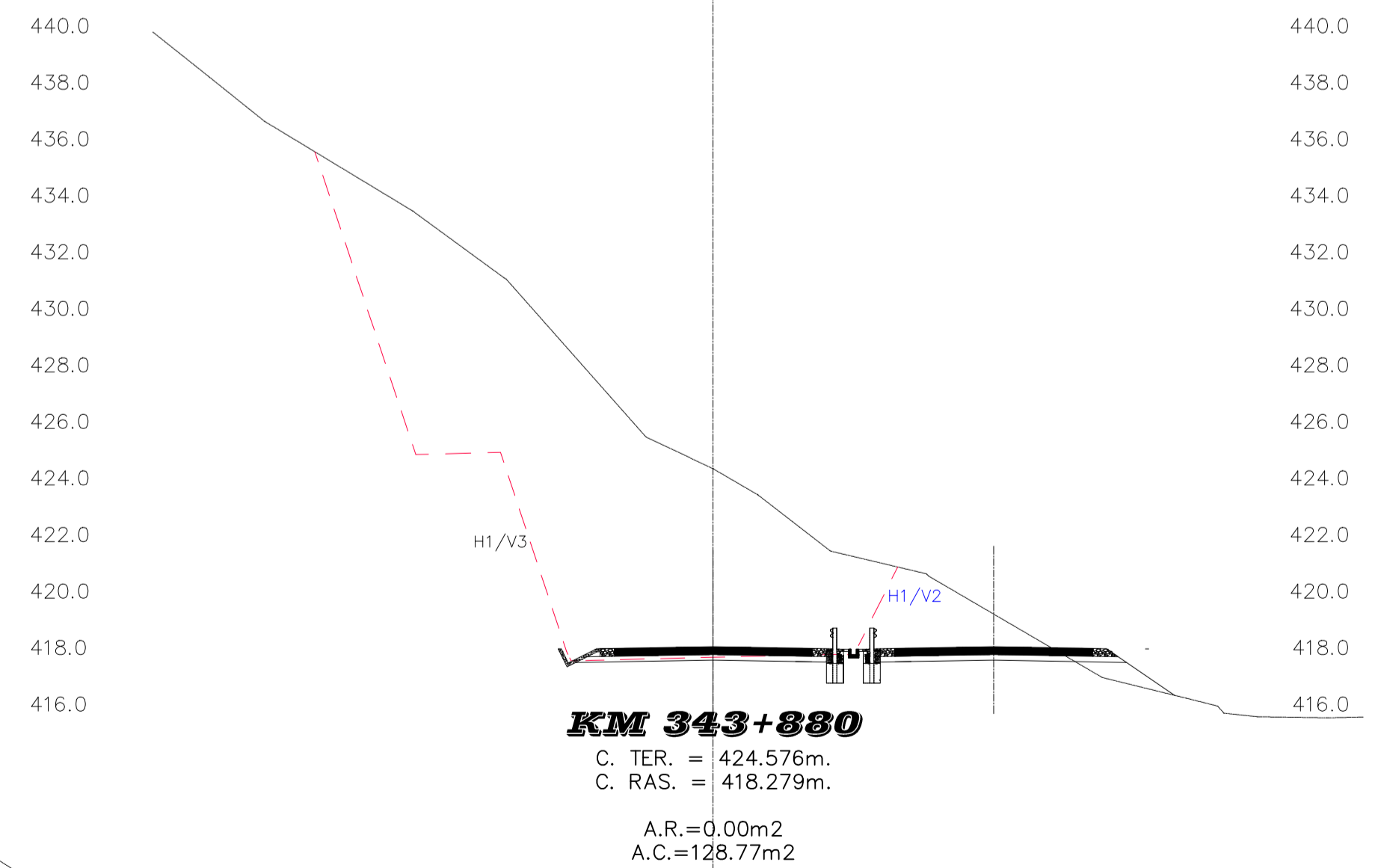
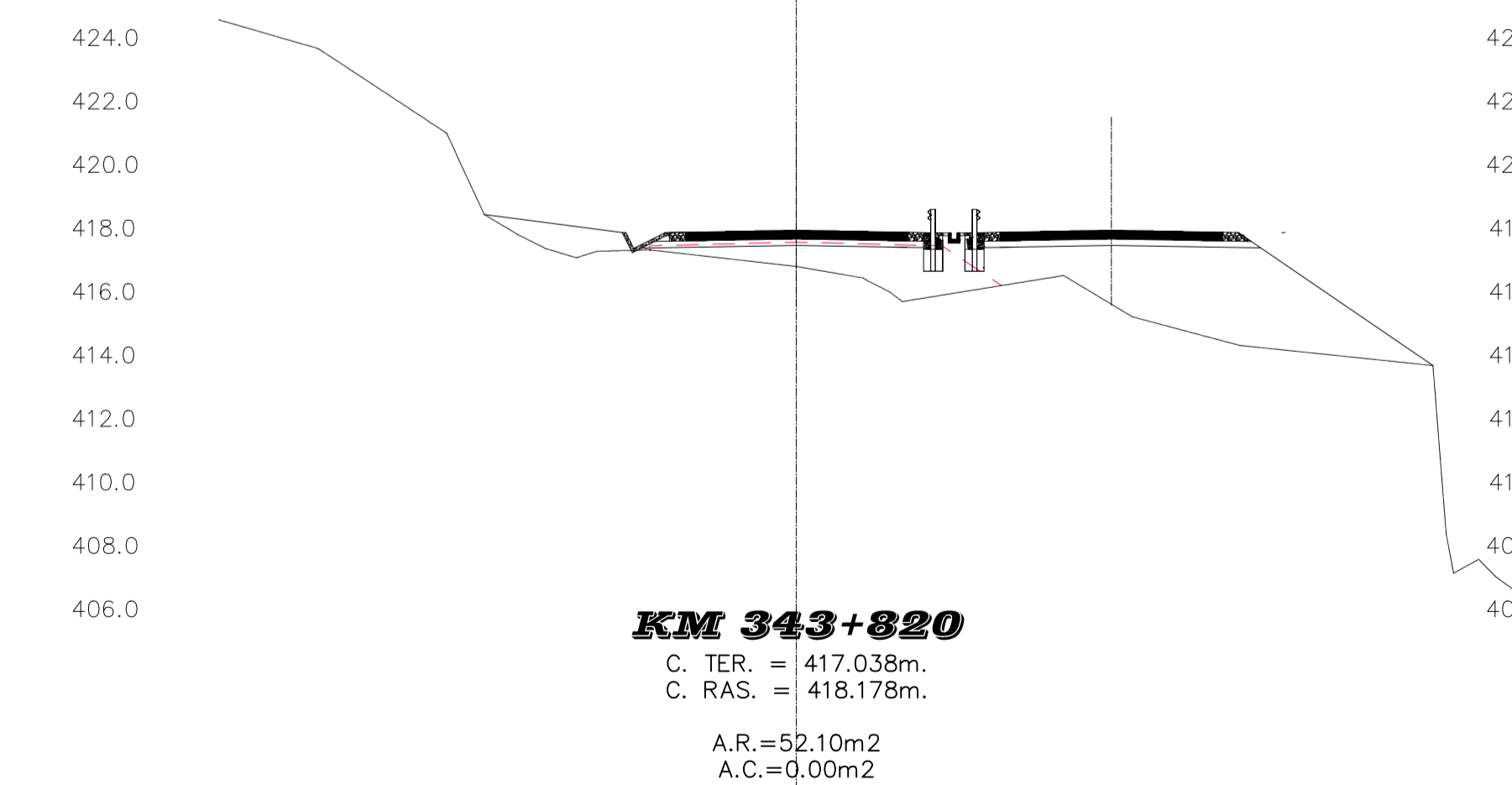
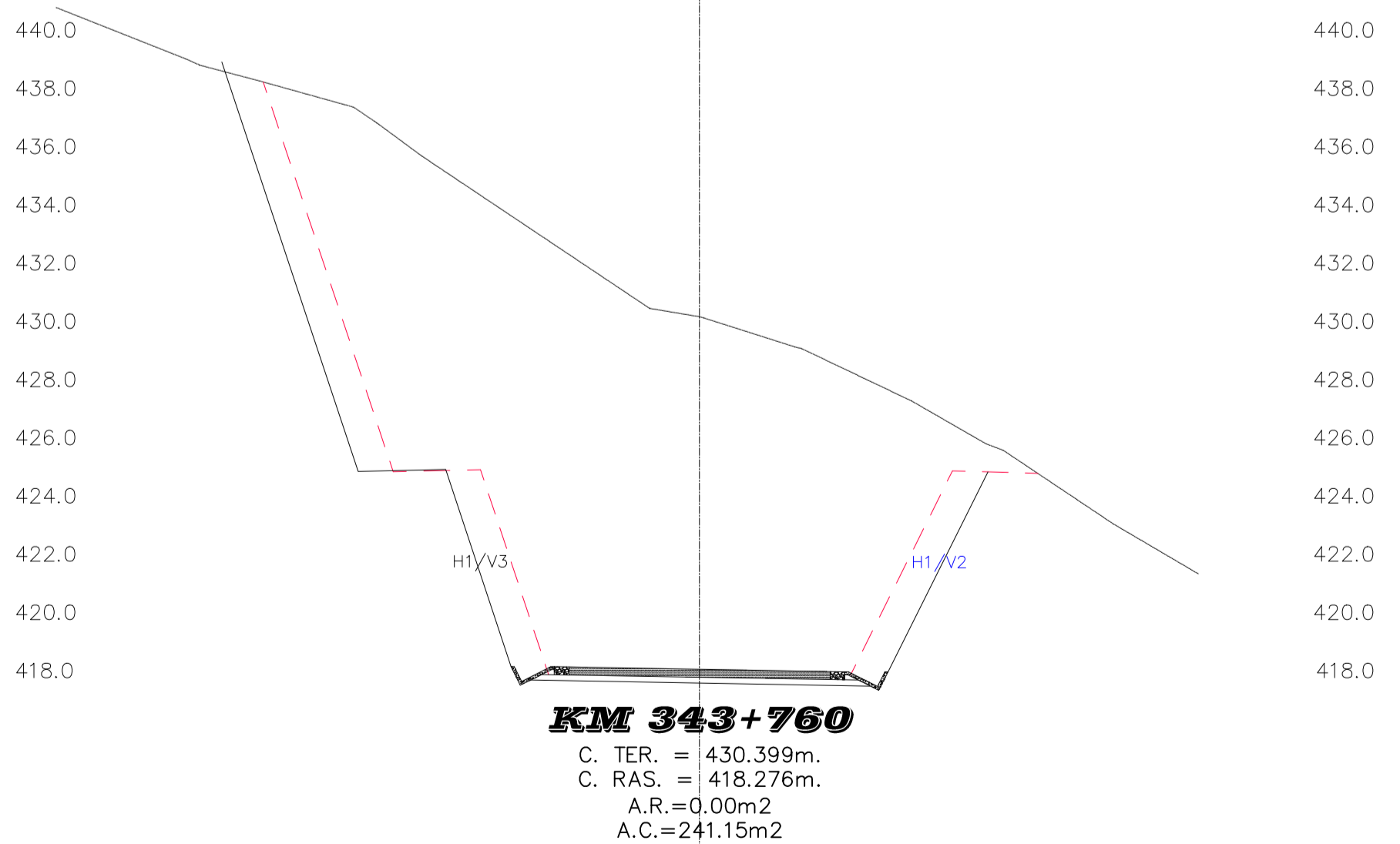
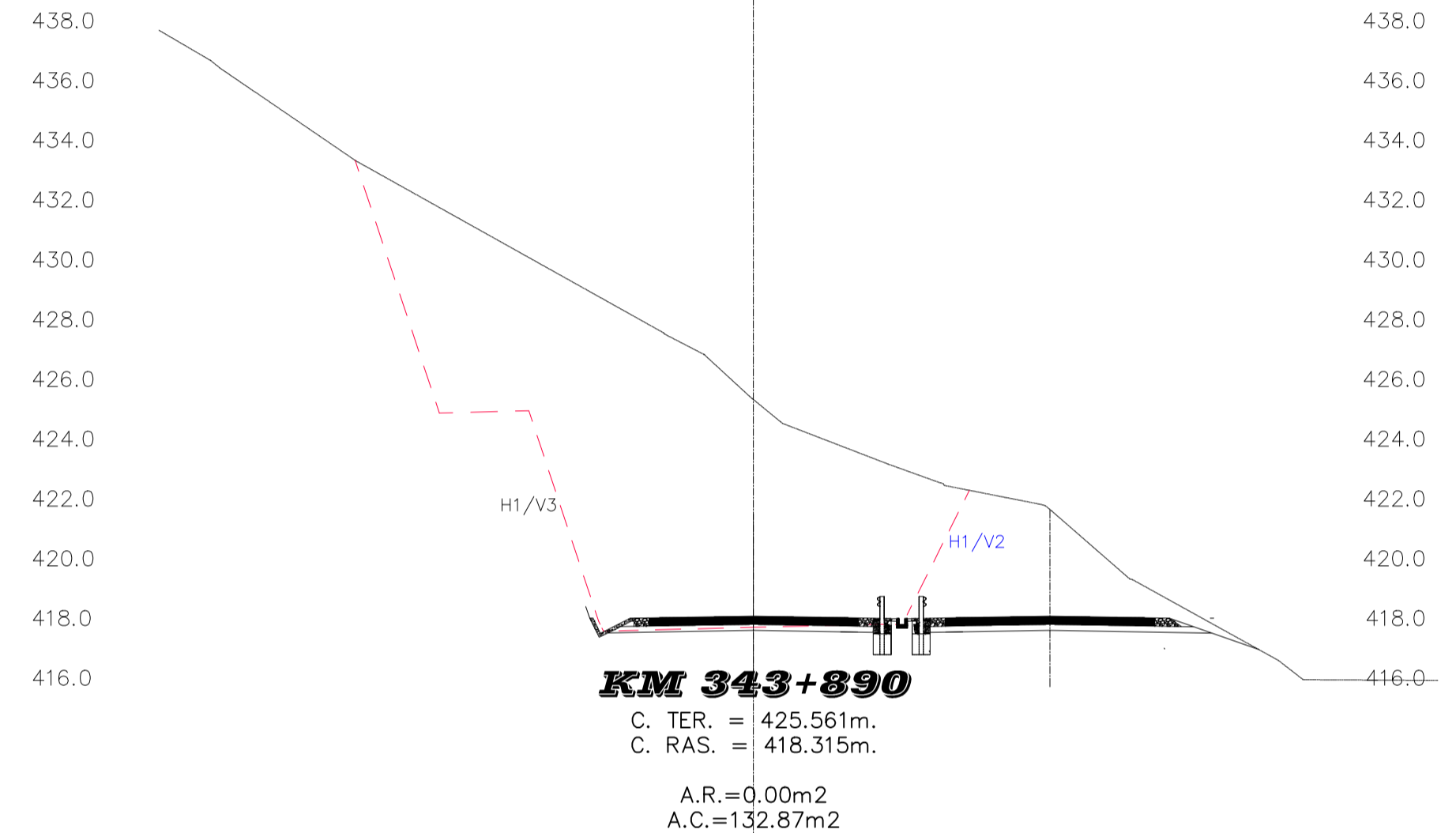
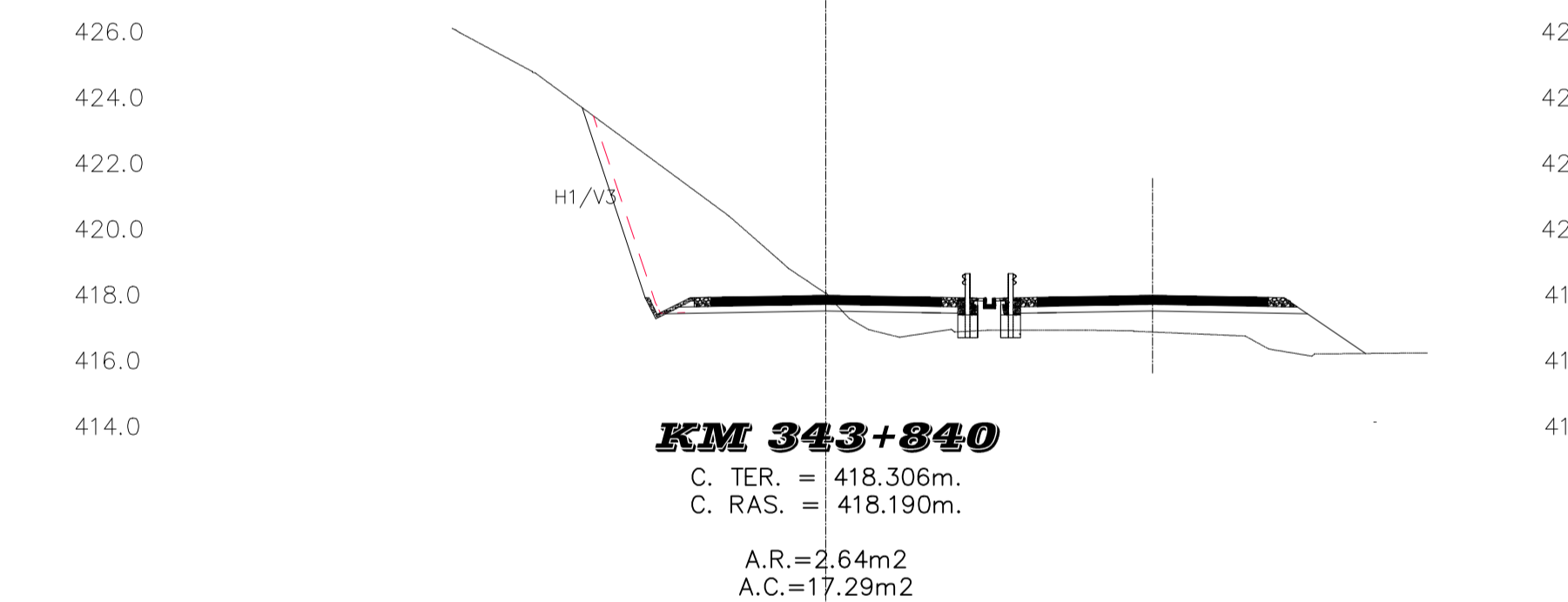
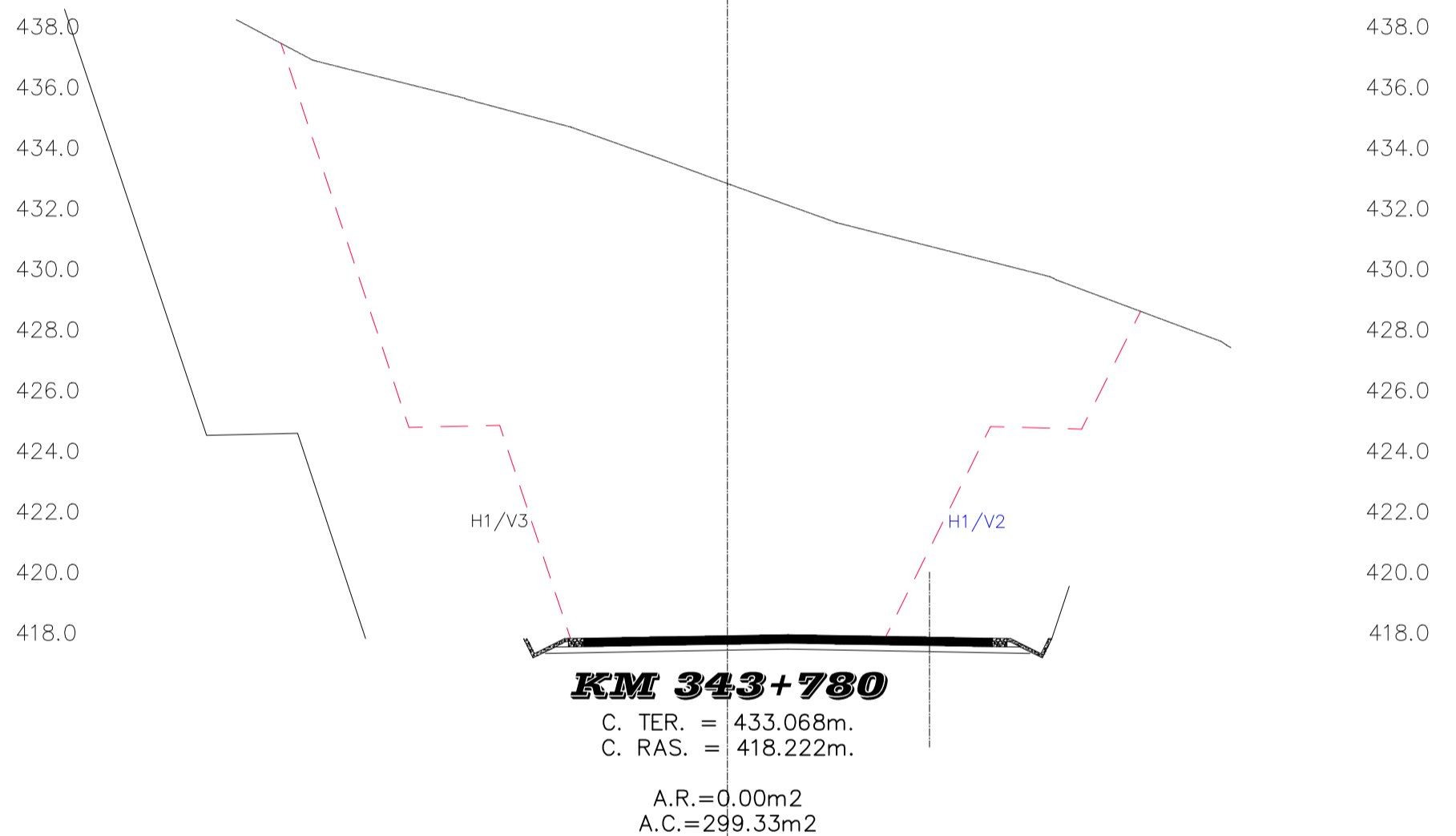
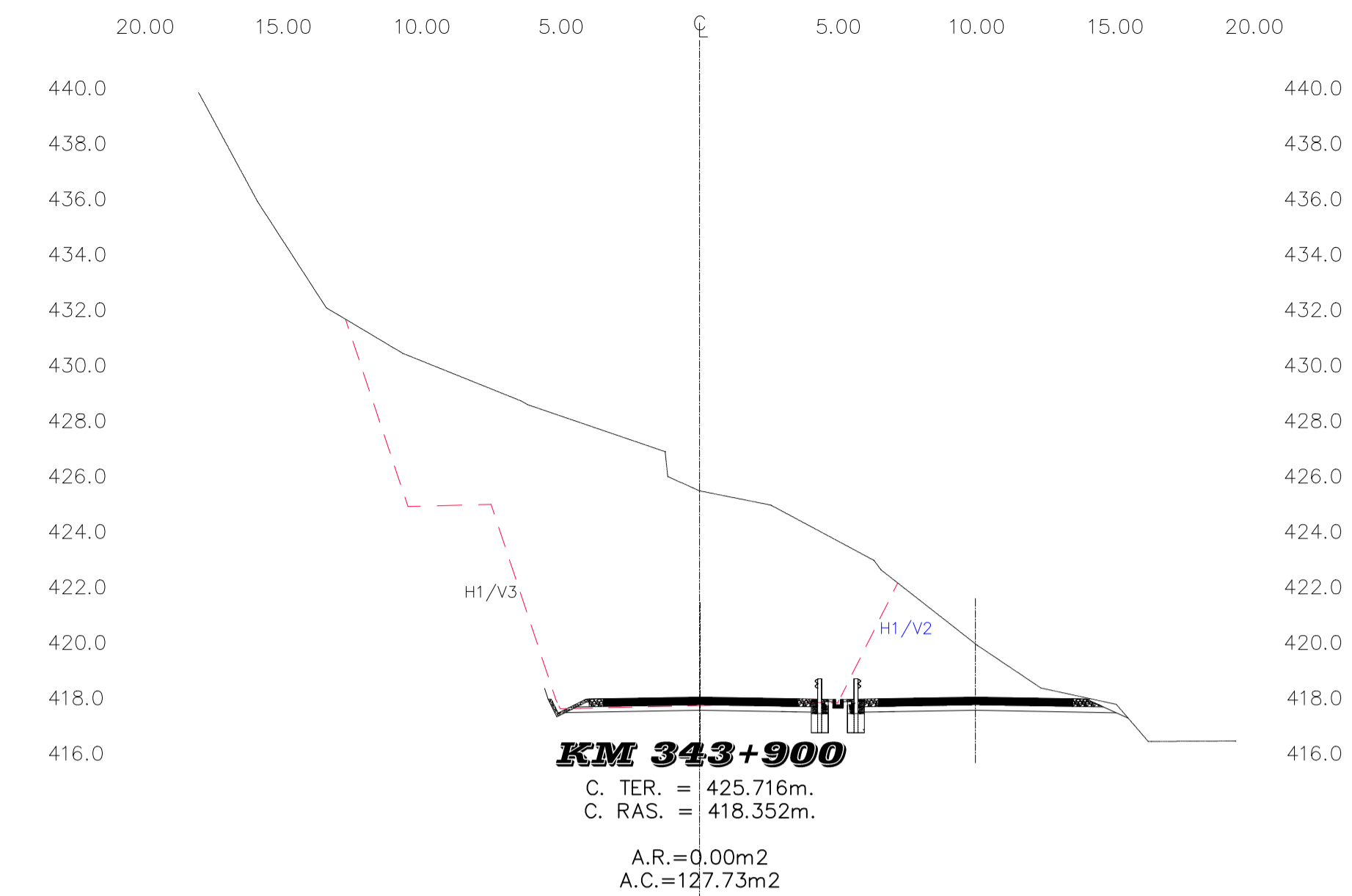
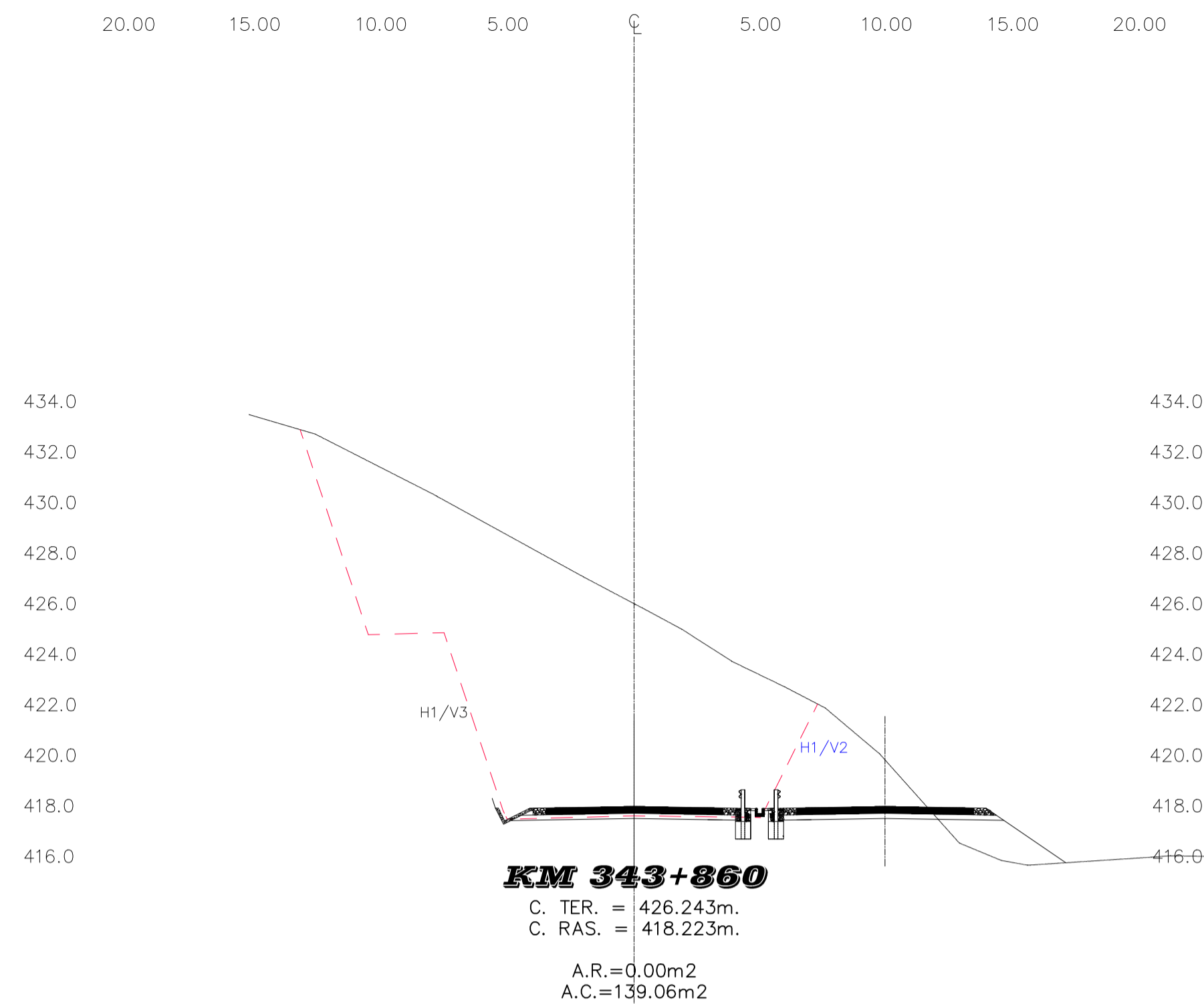
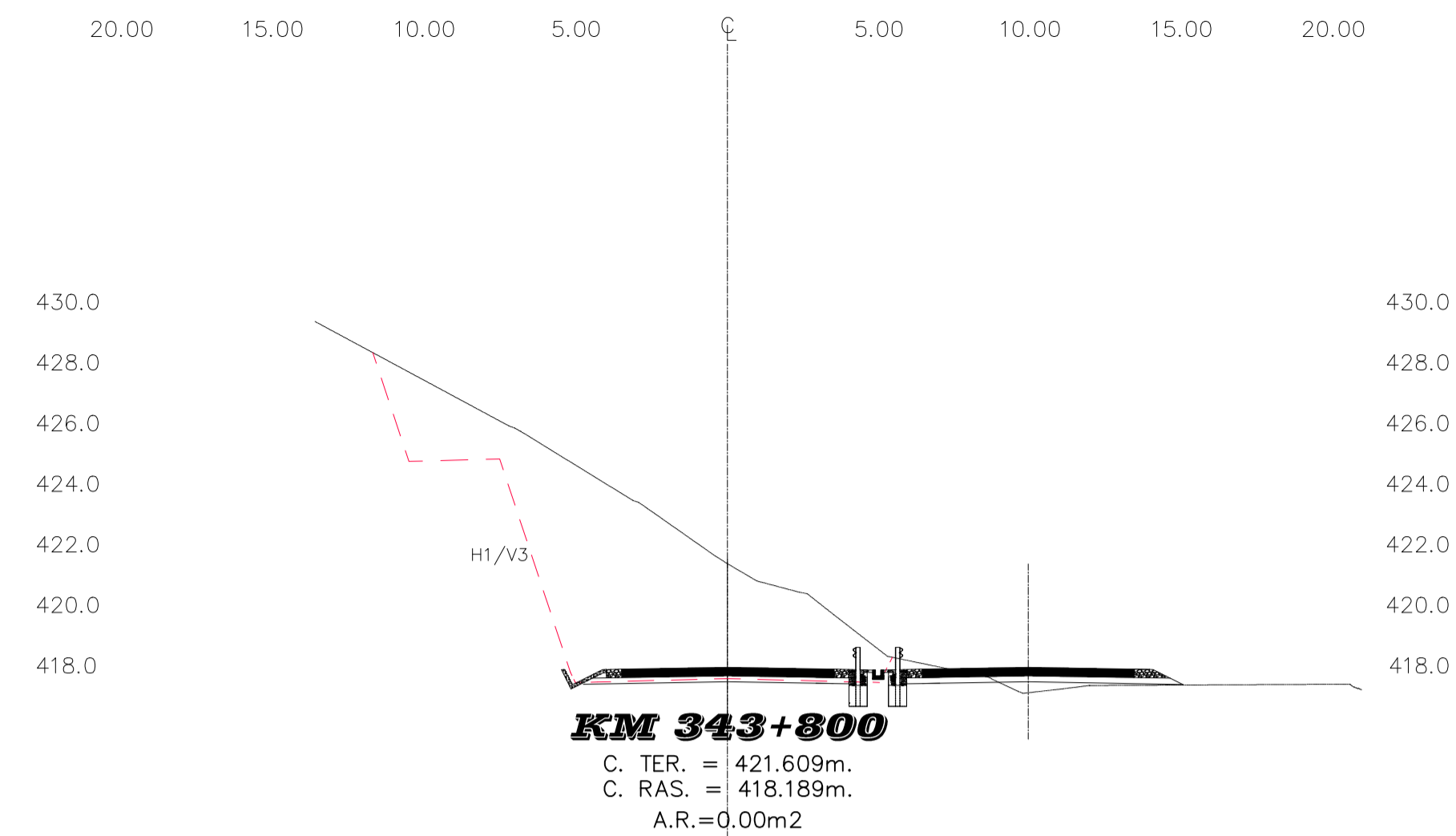
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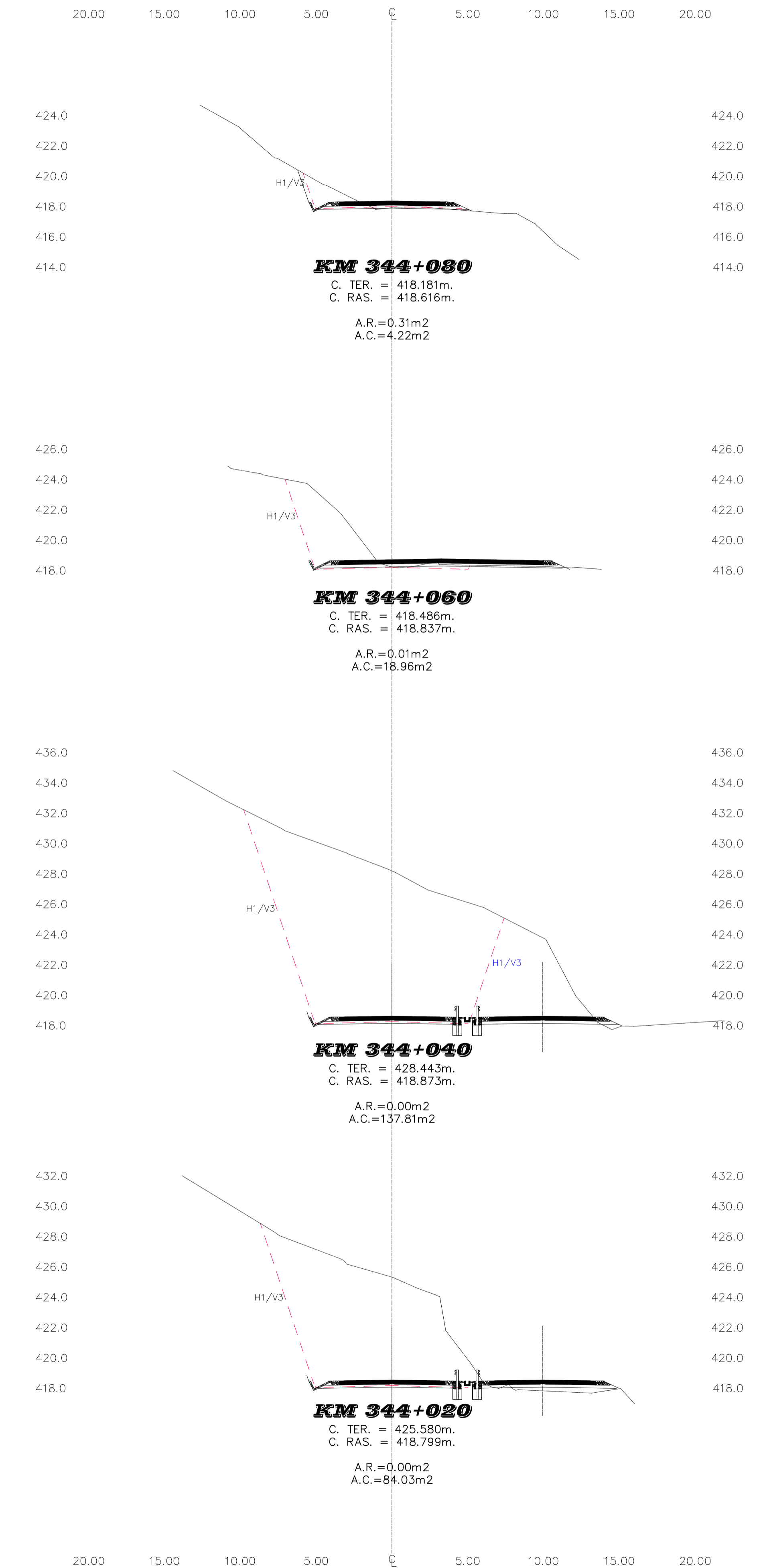
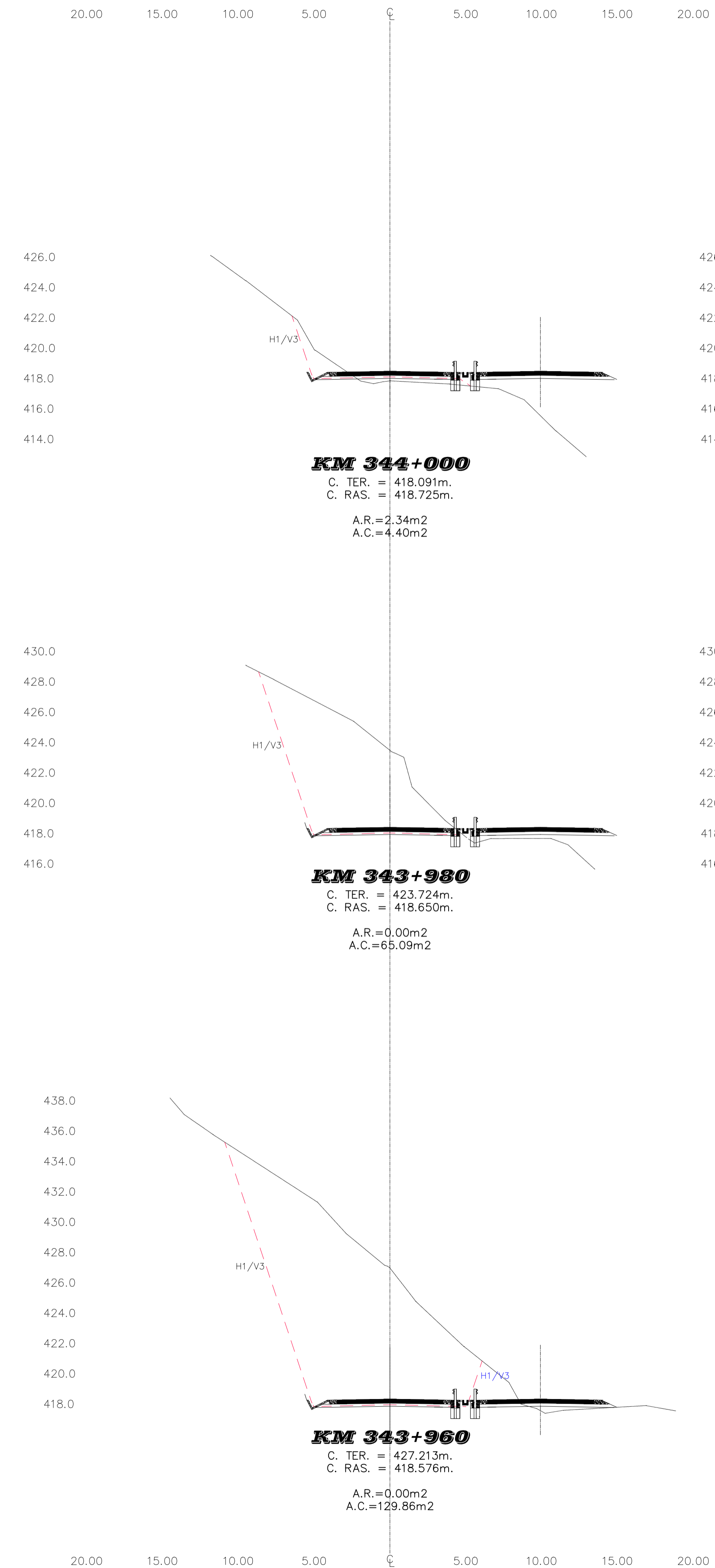
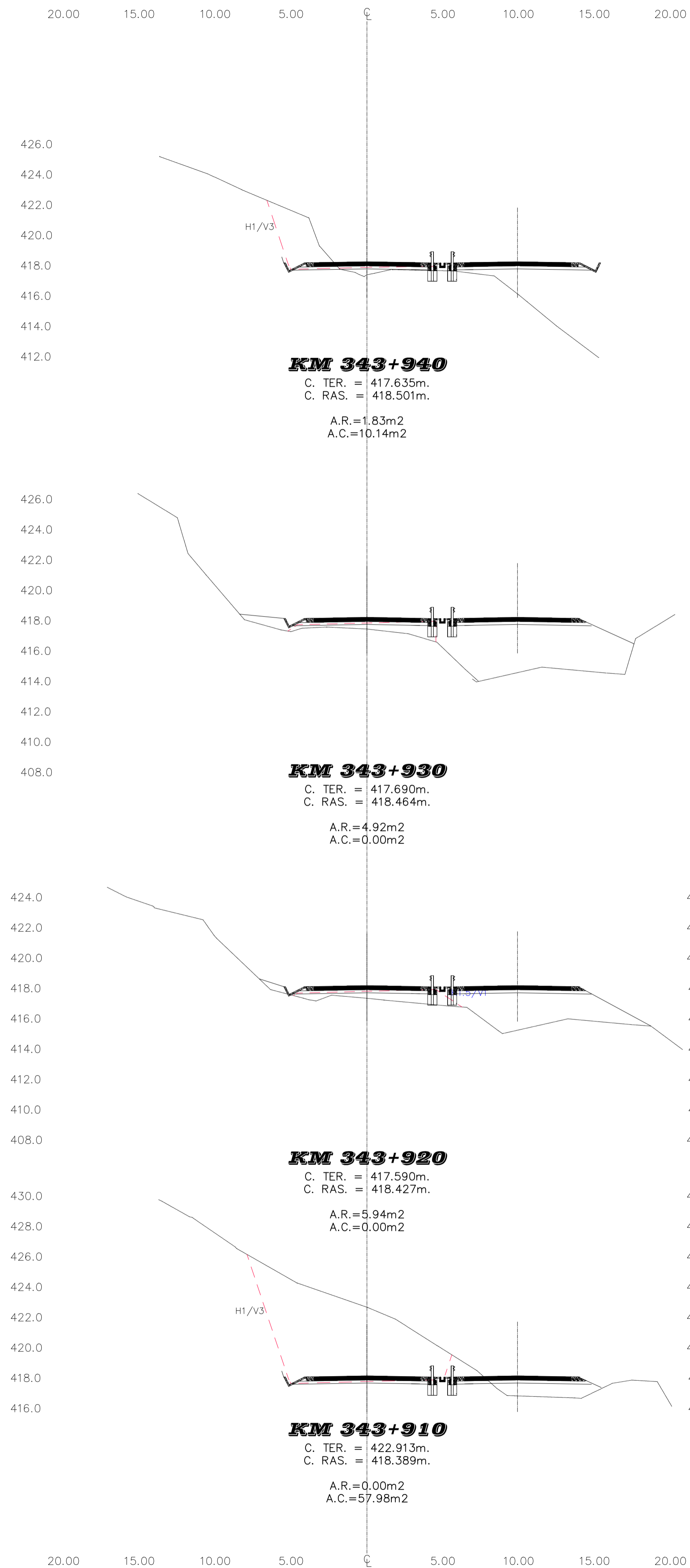


PERFIL DE ALINEAMIENTO DESCENDENTE

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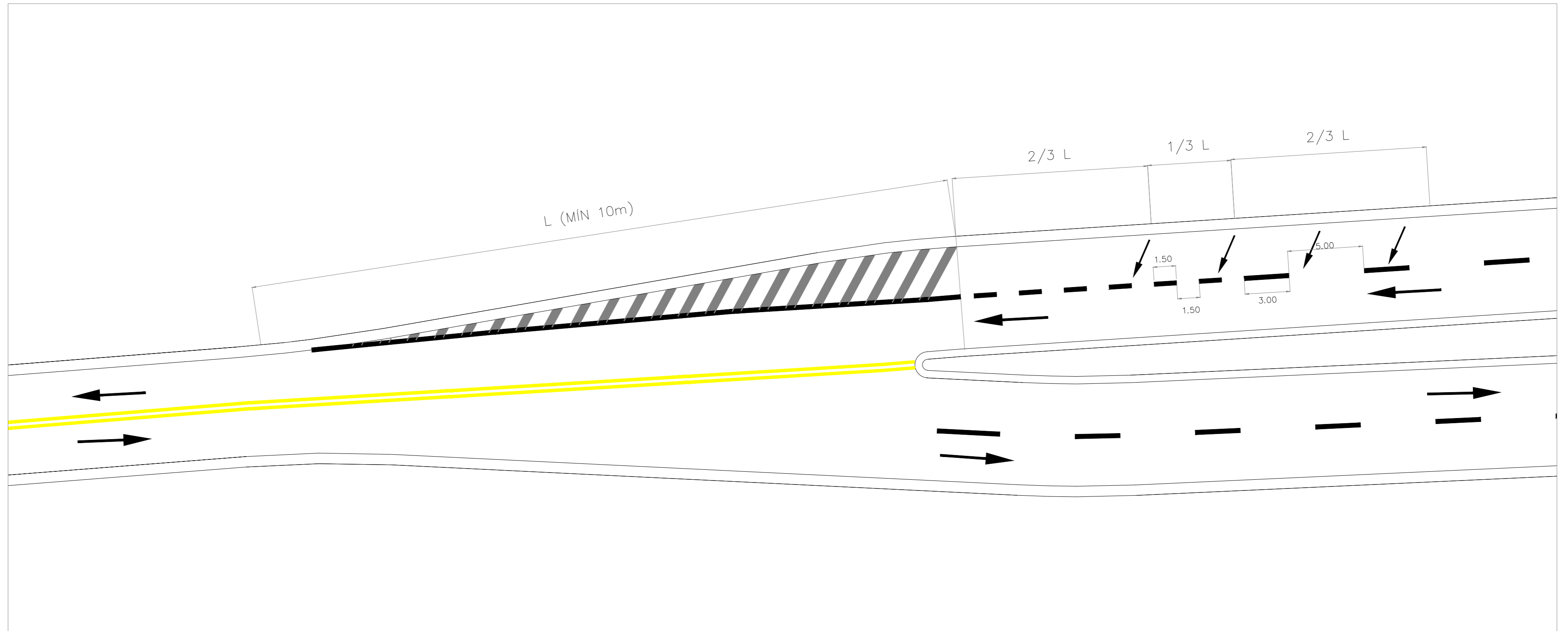






SEÑALIZACIÓN HORIZONTAL PARA TRANSICIÓN POR REDUCCIÓN DE CALZADA

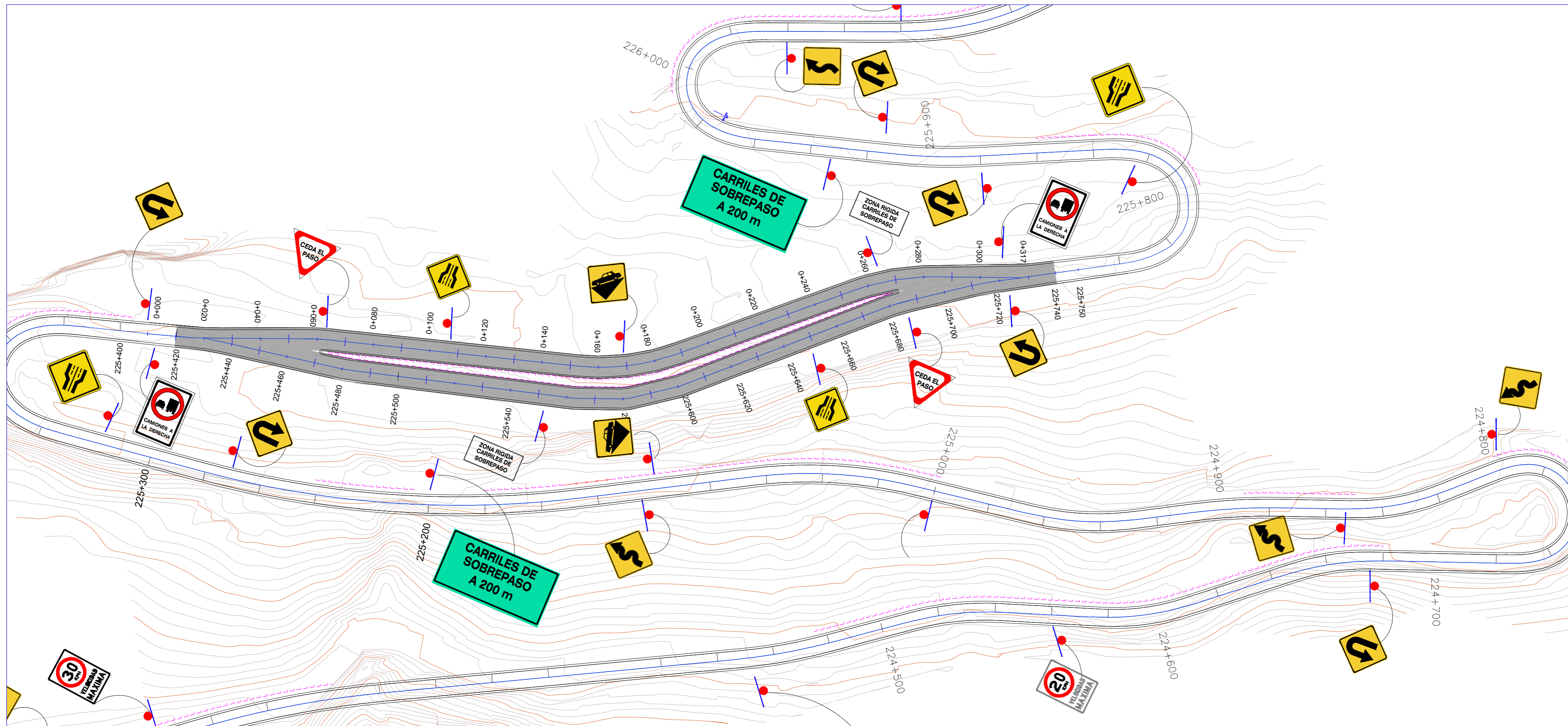
ESCALA: 1:200



TITULO :
SEÑALIZACIÓN HORIZONTAL
PARA CARRILE DE SOBREPASO

ESCALA: 1 : 200
FECHA: DICIEMBRE 2017

PS_H_01



SEÑALES PARA CARRILES DE SOBREPASO

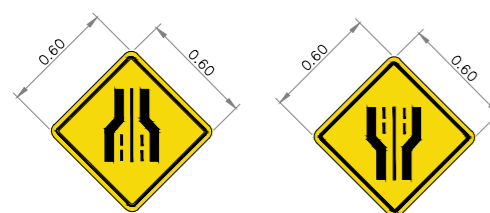
SEÑALES REGULADORAS



SEÑALES PREVENTIVAS

P-17A REDUCCIÓN DE CALZADA AMBOS LADOS

P-21 ENSANCHAMIENTO DE CALZADA AMBOS LADOS



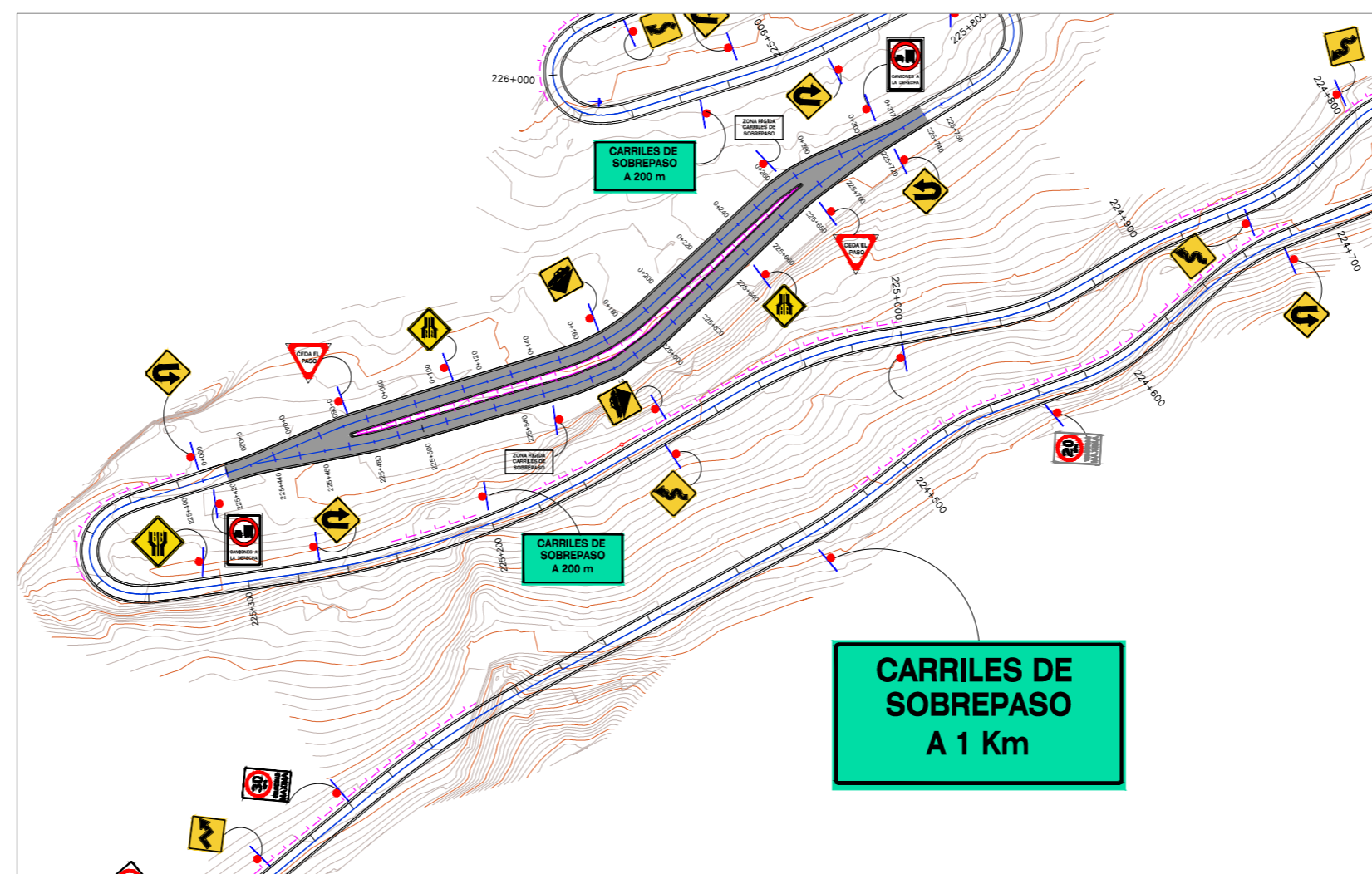
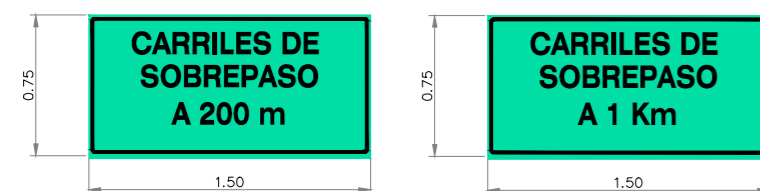
SEÑALES REGLAMENTARIAS

R-18 TRANSITO PESADO CARRIL DERECHO

R-2 CEDA EL PASO



SEÑALES INFORMATIVAS



TITULO :
PLANO DE SEÑALIZACIÓN VERTICAL
CARRILE DE SOBREPASO
 SECTOR Km 225

ESCALA: 1 : 1000

FECHA: DICIEMBRE 2017

PS_225_01