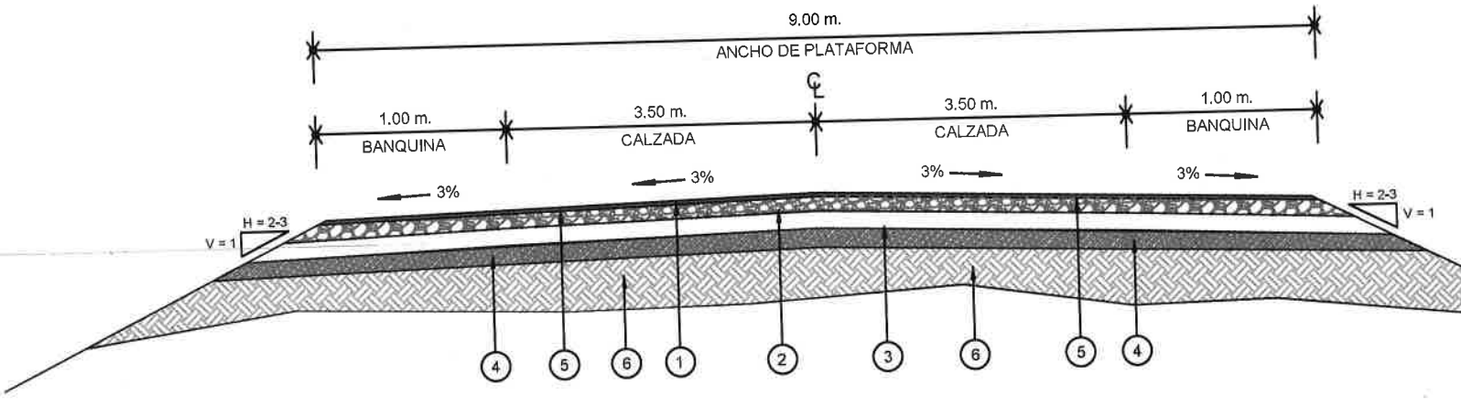
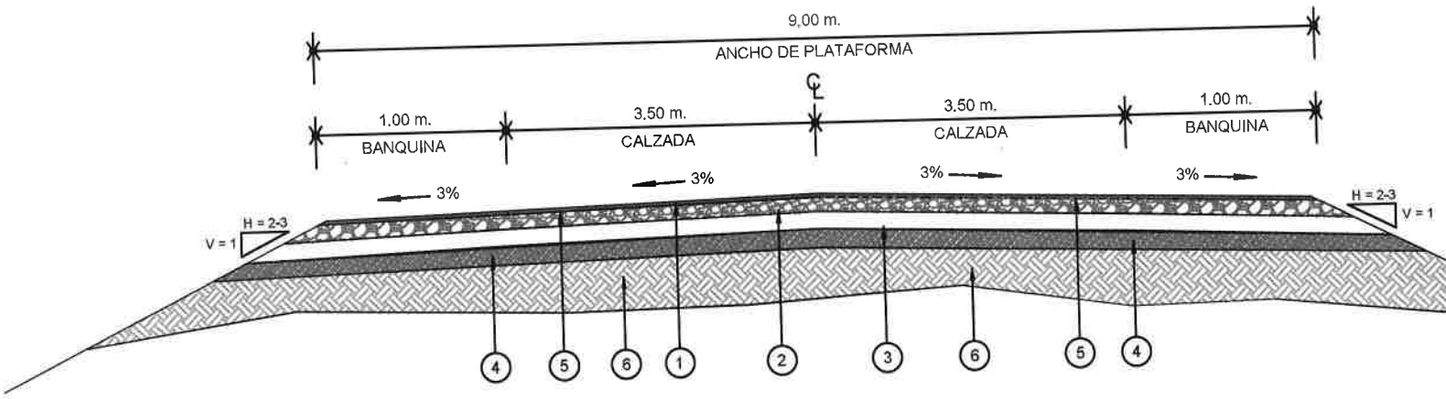
PAQUETE PROPUESTO - PROG. 0+000 A 6+000

SECCIÓN TRANSVERSAL TIPO URBANO



PAQUETE PROPUESTO - PROG. 6+000 A 35+000

SECCIÓN TRANSVERSAL TIPO RURAL



REFERENCIAS	Ing. Isacio E. Vallejos A. Representante Legal C.I.V.S.A. Ing. Isacio E. Vallejos A. Representante Legal	C.I.V.S.A. Constructora Isacio Vallejos S.A. Construyendo con Ud. al País	Ministerio de OBRAS PÚBLICAS Y COMUNICACIONES REPUBLICA DEL P MINISTERIO DE OBRAS PUBLICAS DIRECCION DE VI

1	CARPETA DE CONCRETO ASFALTICO CALZADA-BANQUINA	Esp. = 4 cm
2	BASE GRANULAR ESTABILIZADA 90-100 CBR100%	Esp. = 20 cm
3	SUB BASE ESTABILIZADA CON CEMENTO AL 4%	Esp. = 20 cm
4	CAPA SUPERIOR TERRAPLEN CBR ≥ 20%	Esp. = 30 cm
5	RIEGO DE IMPRIMACION - RIEGO DE LIGA	
6	TERRAPLEN CBR ≥ 7%	

1	CARPETA DE CONCRETO ASFALTICO CALZADA-BANQUINA	Esp. = 4 cm
2	BASE GRANULAR ESTABILIZADA 90-100 CBR100%	Esp. = 18 cm
3	SUB BASE ESTABILIZADA CON CEMENTO AL 4%	Esp. = 20 cm
4	CAPA SUPERIOR TERRAPLEN CBR ≥ 20%	Esp. = 30 cm
5	RIEGO DE IMPRIMACION - RIEGO DE LIGA	
6	TERRAPLEN CBR ≥ 7%	

ELEMENTOS DE CURVAS

Curva N°	A.C.	Radio	E	T	D	P.C.	P.I.	P.T.	Este	Norte	p%	sa (m)
PI 0							0+000.00		550144.34	7552892.28		
PI 1	6° 08' 53"	250.00	0.36	13.43	26.83	0+224.83	0+238.26	0+251.66	550137.44	7552654.12		
PI 2	6° 15' 25"	750.00	1.12	40.99	81.90	0+683.72	0+724.72	0+765.63	550175.50	7552169.13		
PI 3	30° 46' 07"	250.00	8.96	68.79	134.25	2+091.59	2+160.37	2+225.84	550443.16	7550758.56		
PI 4	1° 13' 01"						2+460.97		550339.09	7550473.01		
PI 5	0° 19' 32"						2+730.78		550241.34	7550221.53		
PI 6	10° 17' 21"	500.00	2.01	45.02	89.79	2+994.92	3+039.94	3+084.71	550130.97	7549932.75		
PI 7	4° 52' 25"	1500.00	1.36	63.83	127.59	4+132.20	4+196.03	4+259.79	549917.74	7548796.24		
PI 8	9° 42' 39"	750.00	2.69	63.71	127.11	4+721.93	4+785.64	4+849.04	549760.15	7548228.00		
PI 9	19° 39' 02"	500.00	7.33	86.59	171.48	5+197.80	5+284.40	5+369.29	549547.58	7547776.48		
PI 10	57° 01' 07"	250.00	30.31	135.79	248.79	5+475.22	5+611.01	5+724.01	549315.99	7547543.76		
PI 11	7° 11' 50"	250.00	0.49	15.72	31.40	5+881.01	5+896.73	5+912.41	549380.96	7547242.17		
PI 12	18° 24' 18"	750.00	9.65	121.51	240.92	7+903.84	8+025.34	8+144.76	550086.42	7545233.81		
PI 13	0° 12' 15"						10+228.72		550122.98	7543028.64		
PI 14	7° 36' 36"	1500.00	3.31	99.76	199.23	10+835.09	10+934.85	11+034.32	550137.20	7542322.66		
PI 15	3° 10' 41"	2650.00	1.02	73.51	146.99	11+582.39	11+655.91	11+729.38	550056.09	7541605.89		
PI 16	13° 26' 21"	250.00	1.72	29.45	58.64	13+084.35	13+113.80	13+142.99	549812.10	7540168.51		
PI 17	0° 27' 51"						13+657.67		549848.21	7539625.57		
PI 18	4° 20' 01"	1600.00	1.14	60.54	121.02	15+751.78	15+812.32	15+872.80	550008.61	7537476.91		
PI 19	37° 48' 28"	250.00	13.48	85.61	164.97	16+193.69	16+279.30	16+358.66	550078.47	7537015.12		
PI 20	25° 17' 18"	250.00	6.06	56.08	110.34	19+063.09	19+119.17	19+173.43	548689.73	7534530.80		

REFERENCIAS

Ing. Isacio E. Vallejos A.
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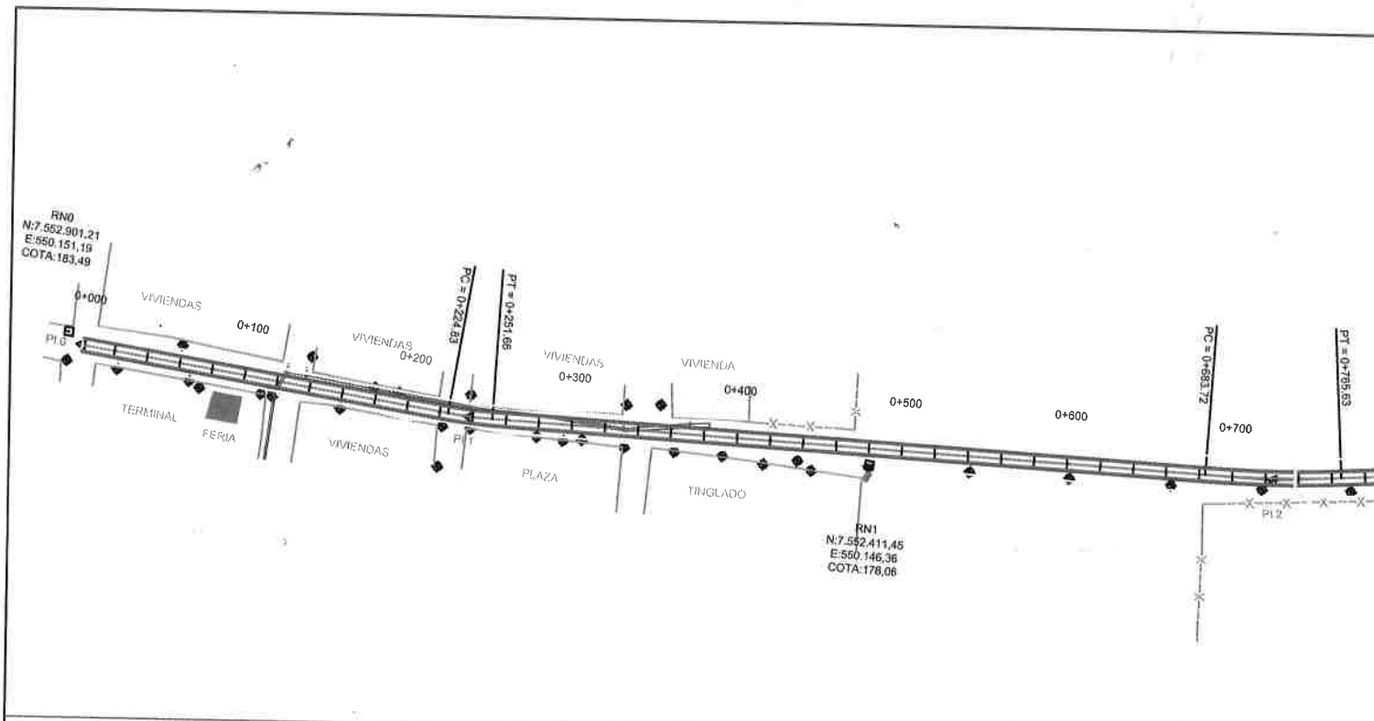
C.I.V.S.A.

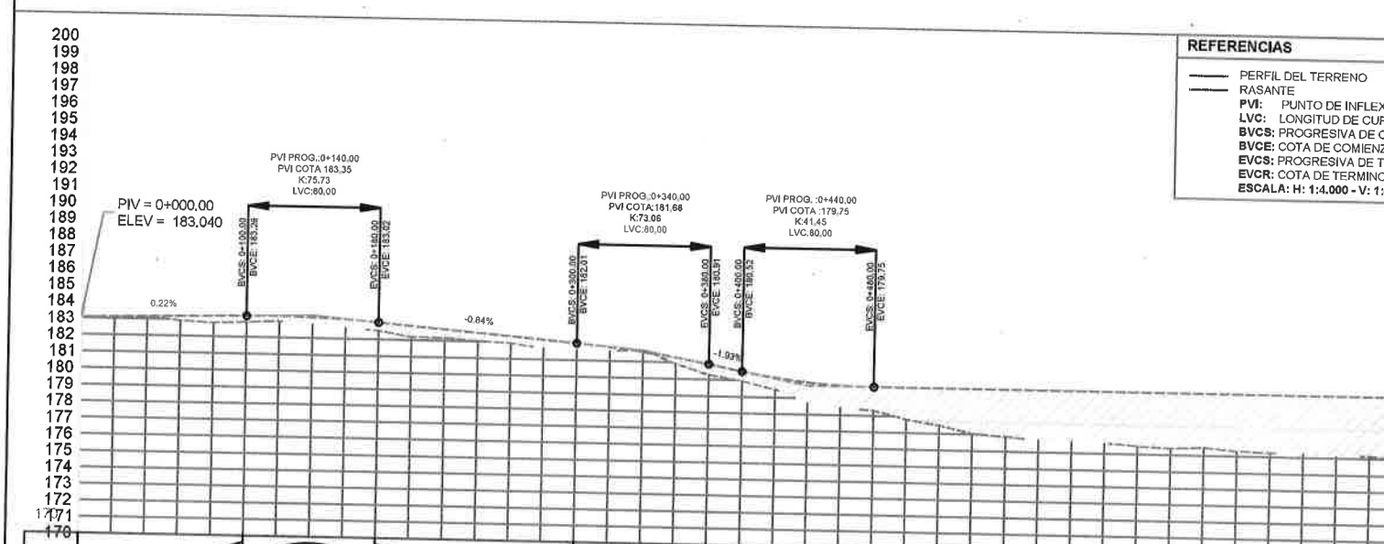
C.I.V.S.A.
Constructora Isacio Vallejos S.A.
Construyendo con Ud. al País

Ing. Isacio E. Vallejos A.
Representante Legal

ELEMENTOS DE CURVAS

Curva N°	A.C.	Radio	E	T	D	P.C.	P.I.	P.T.	Este	Norte	p%	sa (m)
PI 21	16° 35' 00"	500.00	5.23	72.87	144.72	20+235.69	20+308.56	20+380.41	548608.35	7533342.36		
PI 22	17° 11' 12"	500.00	5.61	75.56	149.98	20+784.02	20+859.57	20+934.00	548729.40	7532803.76		
PI 23	73° 58' 59"	240.00	48.31	180.80	309.90	21+040.57	21+221.37	21+350.47	548910.06	7532488.99		
PI 24	30° 11' 55"	250.00	8.63	67.45	131.77	21+478.75	21+546.20	21+610.52	548647.89	7532218.74		
PI 25	16° 13' 13"	250.00	2.50	35.63	70.77	21+821.87	21+857.50	21+892.65	548572.18	7531913.55		
PI 26	30° 03' 19"	250.00	8.55	67.12	131.14	22+838.85	22+905.97	22+969.99	548045.31	7531006.53		
PI 27	1° 12' 58"						23+656.25		547391.51	7530632.21		
PI 28	1° 11' 50"						24+457.41		546687.95	7530248.98		
PI 29	19° 02' 00"	300.00	4.13	50.29	99.66	24+937.88	24+988.18	25+037.54	546227.25	7529985.41		
PI 30	0° 12' 39"						26+578.20		545179.47	7528788.22		
PI 31	30° 47' 48"	250.00	8.97	68.85	134.38	28+727.32	28+796.17	28+861.69	543712.61	7527124.57		
PI 32	2° 03' 41"						29+319.16		543211.48	7526963.67		
PI 33	9° 04' 46"	250.00	0.78	19.85	39.62	29+739.85	29+759.70	29+779.47	542787.45	7526844.17		
PI 34	15° 15' 05"	500.00	4.42	66.94	133.09	30+098.92	30+165.86	30+232.01	542418.73	7526673.66		
PI 35	18° 24' 25"	500.00	6.44	81.01	160.63	31+247.91	31+328.93	31+408.55	541528.08	7525924.46		
PI 36	5° 08' 13"	2000.00	2.01	89.72	179.31	33+511.86	33+601.58	33+691.18	539414.64	7525085.02		
PI 37							33+601.58		538166.02	7524454.30		





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Construyendo con Ud. al País

Ministerio de
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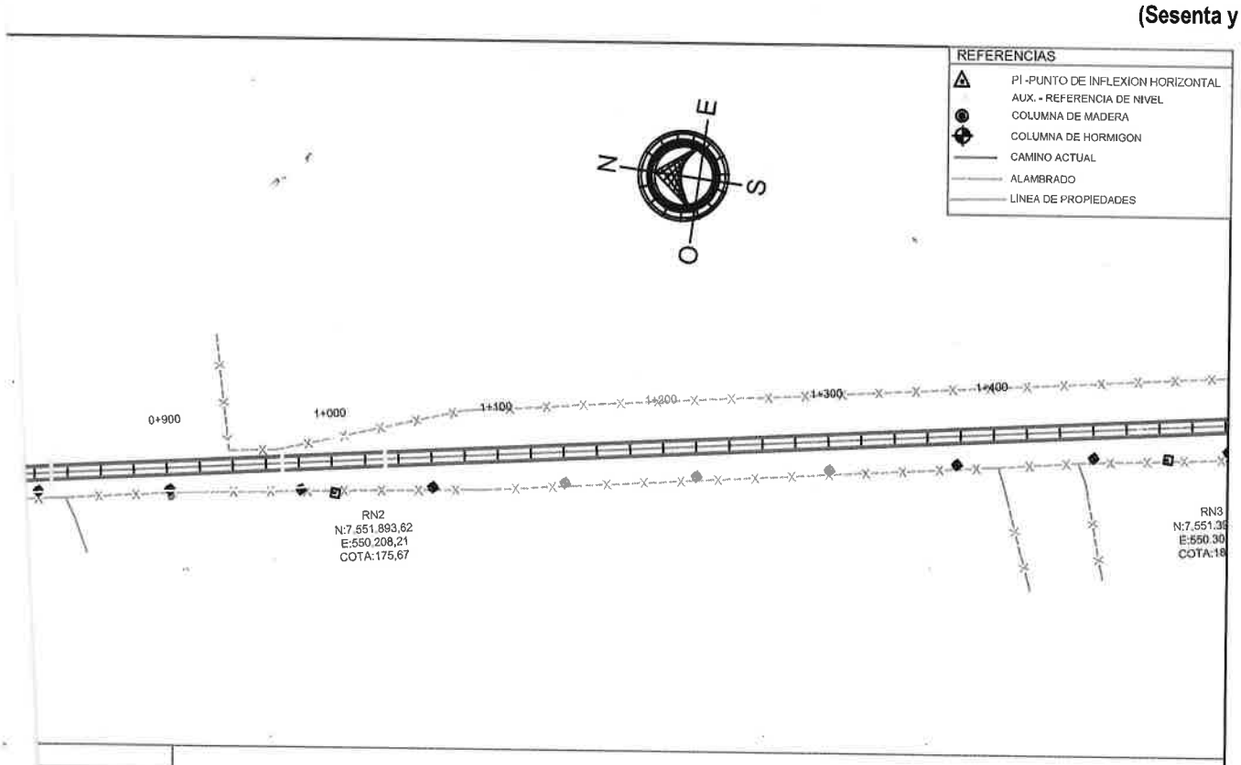
REFERENCIAS
PI -PUNTO DE INFLEXIÓN HORIZONTAL
AUX. - REFERENCIA DE NIVEL
COLUMNA DE MADERA
COLUMNA DE HORMIGON
CAMINO ACTUAL
ALAMBRADO
LINEA DE PROPIEDADES
E
N
S
O
0+900
1+000
1+100
1+200
1+300
1+400
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COTA:175,67
RN3
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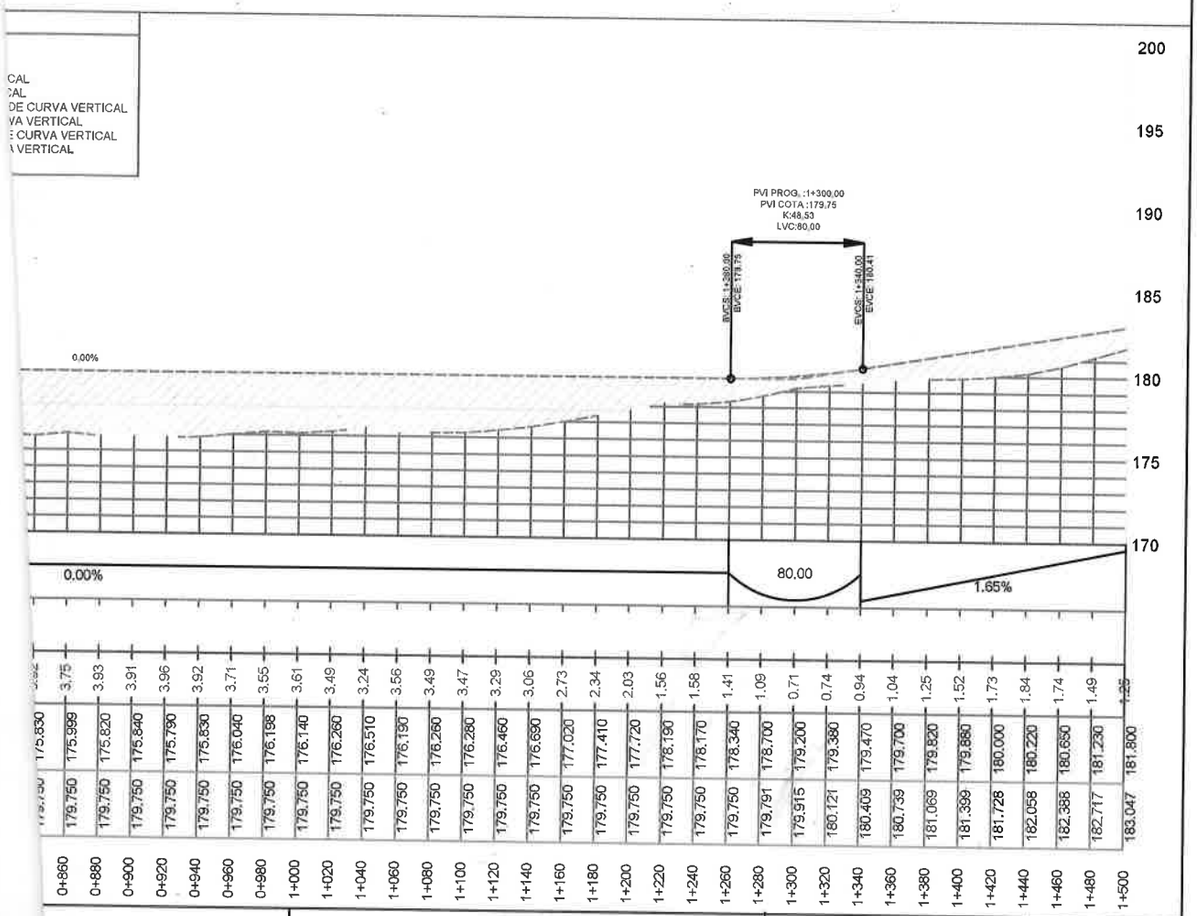
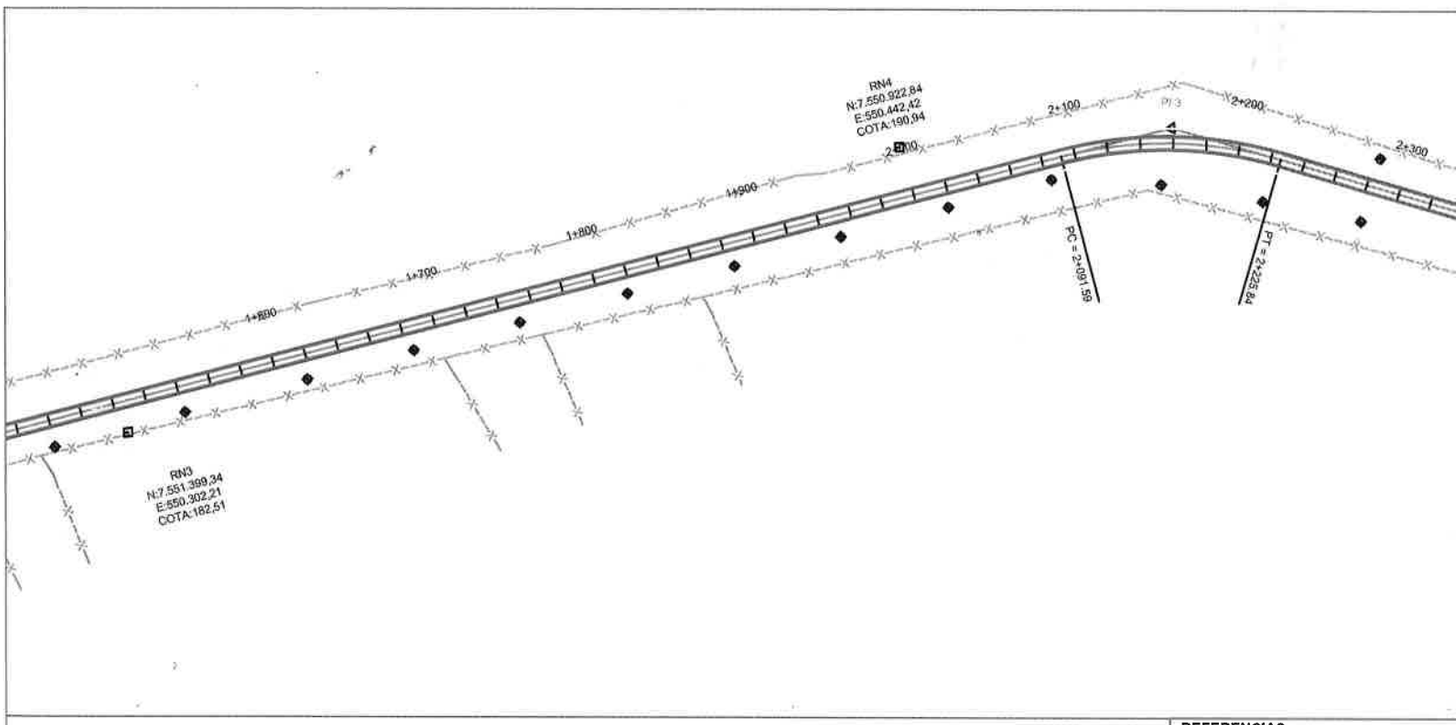
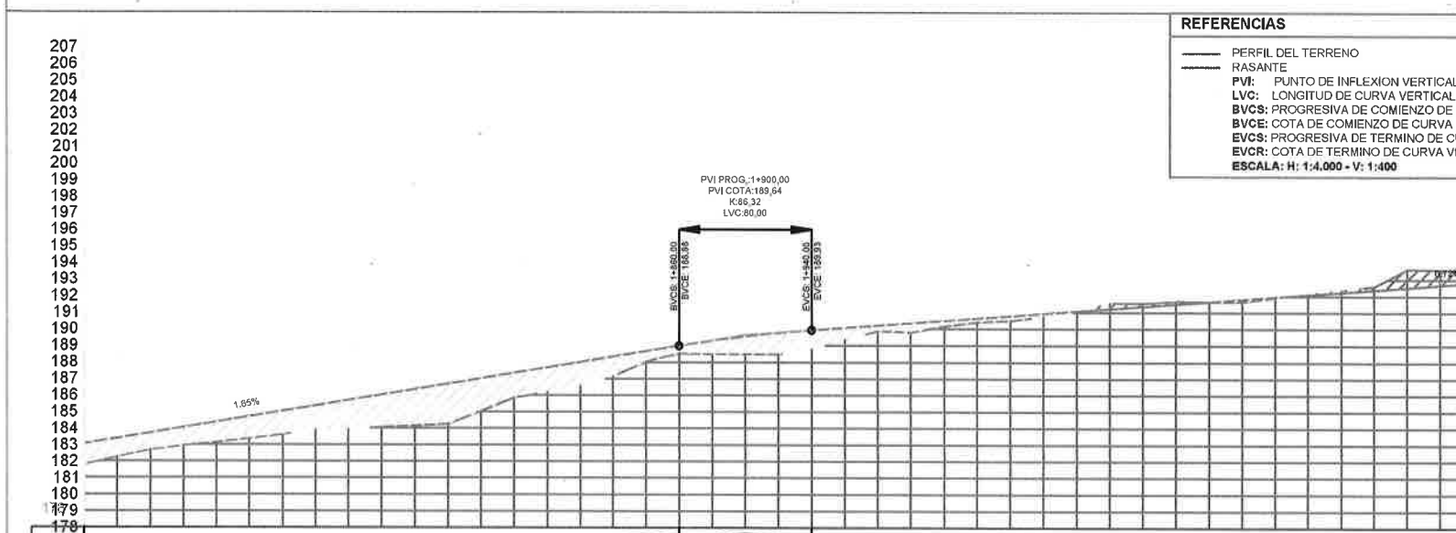

CAL
CAL
DE CURVA VERTICAL
VA VERTICAL
E CURVA VERTICAL
A VERTICAL
PVI PROG. :1+300,00
PVI COTA :179,75
K:48,53
LVC:80,00
BVCE: 1+260,00
BVCE: 179,75
EVCE: 1+340,00
EVCE: 180,41
0.00%
80.00
1.65%
200
195
190
185
180
175
170

| | | |





	TERRENO	RASANTE
1+500	181.800	183.047
1+520	182.250	183.377
1+540	182.690	183.706
1+560	182.940	184.036
1+580	183.130	184.366
1+600	183.350	184.696
1+620	183.600	185.025
1+640	183.890	185.355
1+660	183.910	185.685
1+680	184.050	186.014
1+700	184.150	186.344
1+720	184.260	186.674
1+740	185.020	187.003
1+760	185.840	187.333
1+780	186.169	187.663
1+800	186.520	187.993
1+820	187.140	188.322
1+840	188.030	188.652
1+860	188.530	188.982
1+880	188.470	189.298
1+900	188.460	189.548
1+920	188.480	189.762
1+940	188.760	189.930
1+960	189.350	190.074
1+980	189.880	190.218
2+000	189.800	190.363
2+020	190.190	190.507
2+040	190.420	190.651
2+060	190.520	190.796
2+080	190.760	190.940
2+100	191.020	191.085
2+120	191.570	191.229
2+140	191.580	191.373
2+160	191.690	191.518
2+180	191.660	191.662
2+200	191.670	191.806
2+220	191.921	191.951
2+240	192.150	192.095
2+260	192.370	192.239
2+280	192.610	192.384
2+300	193.640	192.528
2+320	193.600	192.672

CARGA	CORTE
1.25	
1.13	
1.02	
1.10	
1.24	
1.35	
1.43	
1.47	
1.77	
1.96	
2.19	
2.41	
1.98	
1.49	
1.49	
1.47	
1.18	
0.62	
0.45	
0.82	
1.09	
1.28	
1.17	
0.72	
0.34	
0.56	
0.32	
0.23	
0.26	
0.18	
0.06	
0.00	0.34
0.14	0.21
0.03	0.17
	0.00
	0.05
	0.13
	0.23
	1.11
	0.93

REFERENCIAS

Ing. Isacio E. Vallejos A.
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Ministerio de
OBRAS PÚBLICAS
Y COMUNICACIONES

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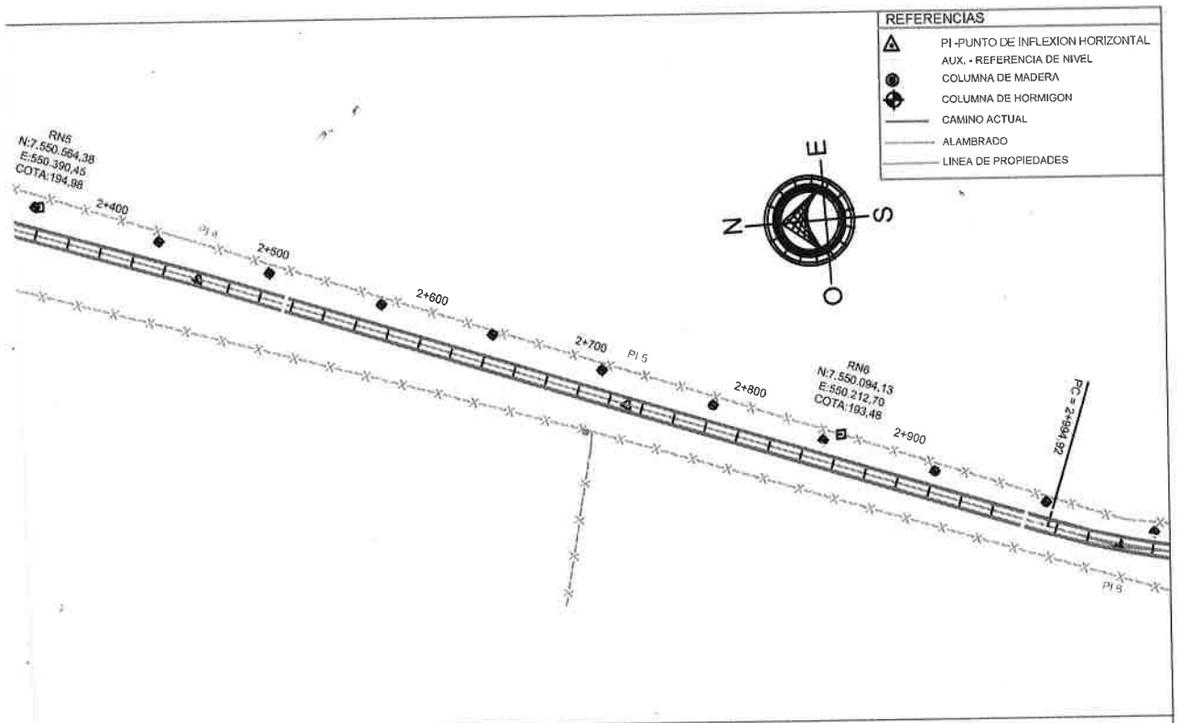
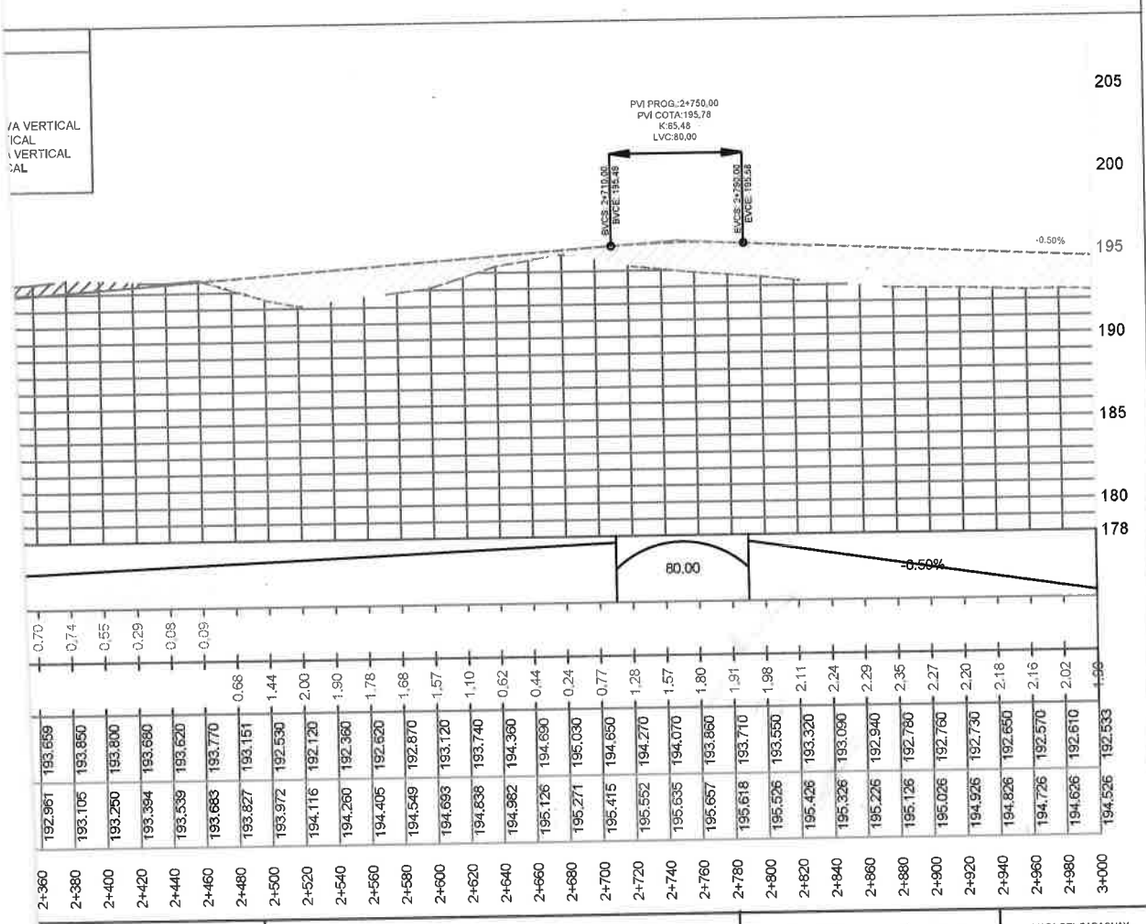
MINISTERIO DE OBRAS PUBLICAS
DIRECCION DE VI

C.I.V.S.A.
Ing. Isacio E. Vallejos A
Representante Legal





OBIERNO NACIONAL Paraguay de la gente UAY MUNICACIONES O	TRAMO BELLA VISTA NORTE - PASTORIL - CURUSU EVA - PUENTESIÑO DEPARTAMENTO AMANBAY/CONCEPCION LLAMADO M.O.P.C N° 39/2019 CONTRATO S.G. MINISTRO N° 468/2019 **READECUACION DEL DISEÑO GEOMETRICO** **LOTE N° 1: PROG. 0+000 A PROG. 35+000**	DISEÑO GEOMÉTRICO PLANIALTIMETRIA **PROG 1+500 a PROG 3+000** ESCALA: INDICADA LAMINA N° **DG-04-R1** Fecha: NOVIEMBRE 2020	MAPA DEL PARAGUAY AREA DE OBRA BOLIVIA ARGENTINA BRASIL