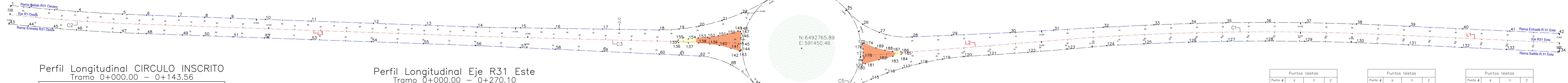
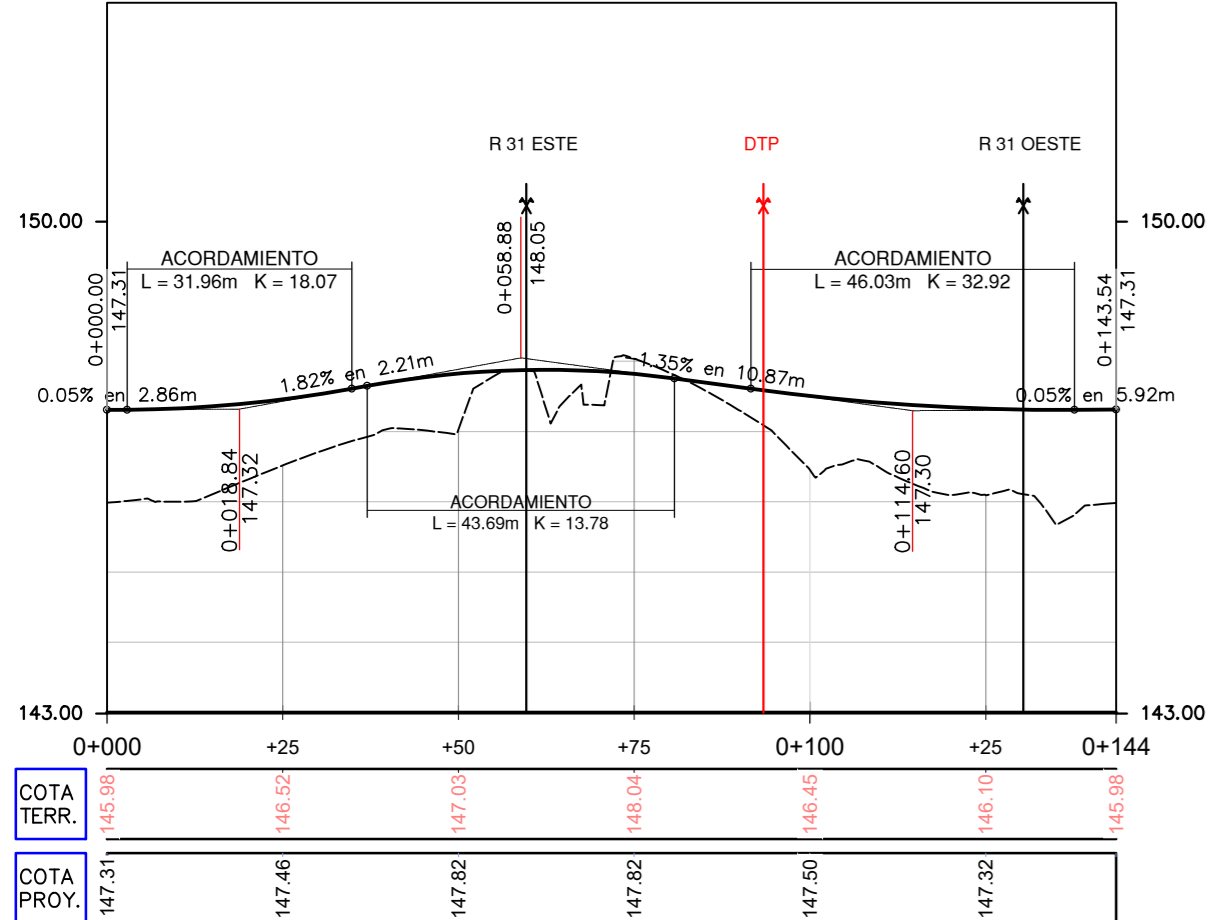
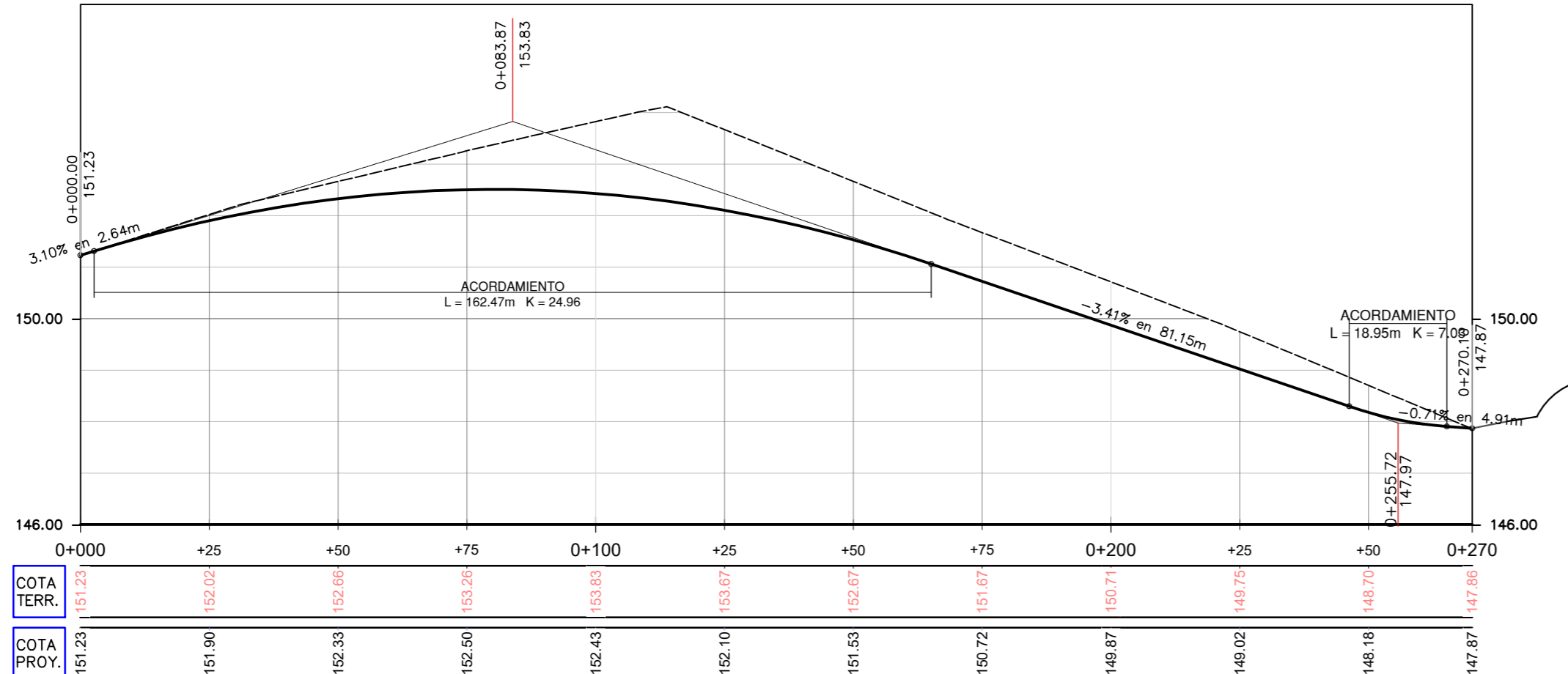
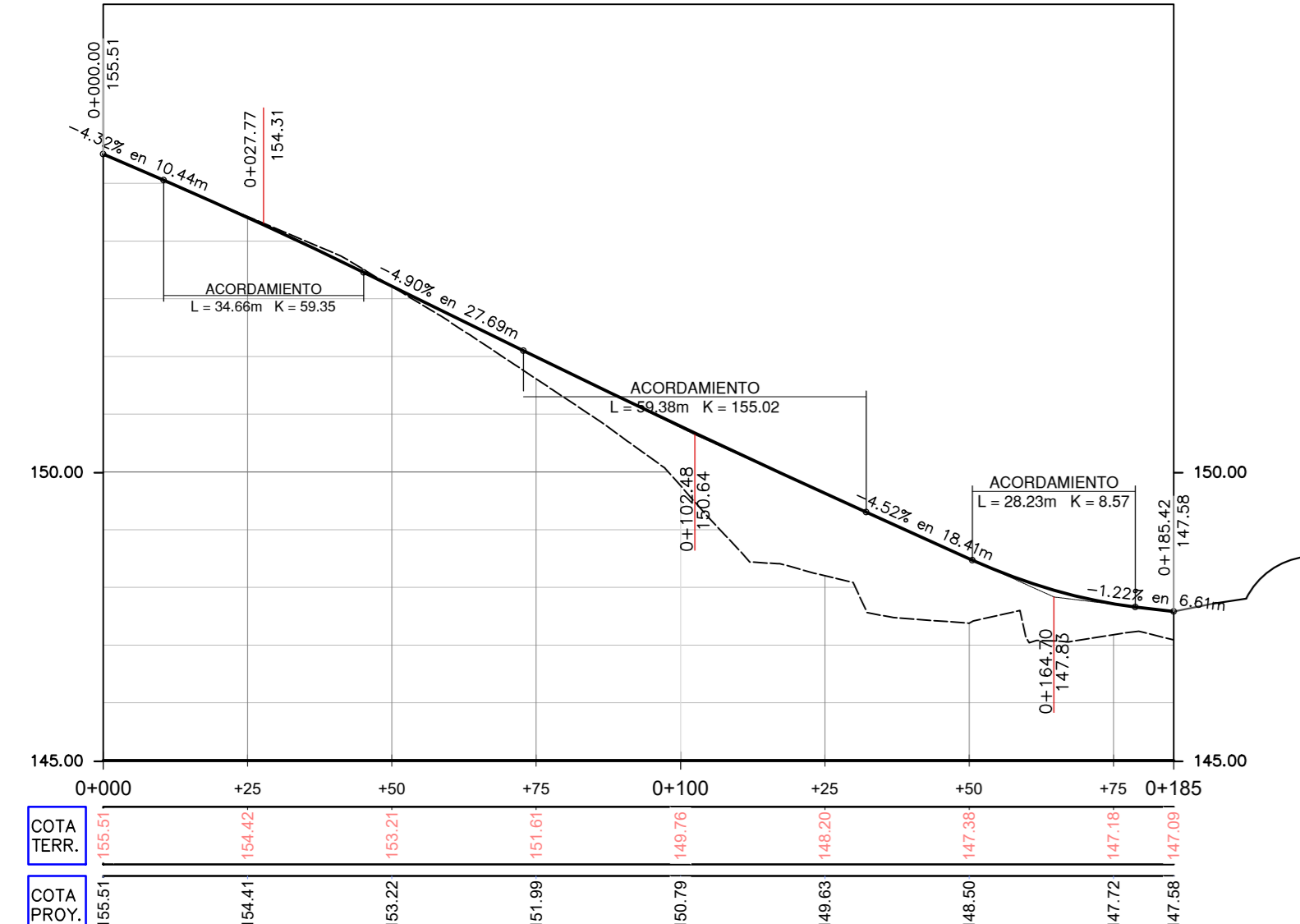
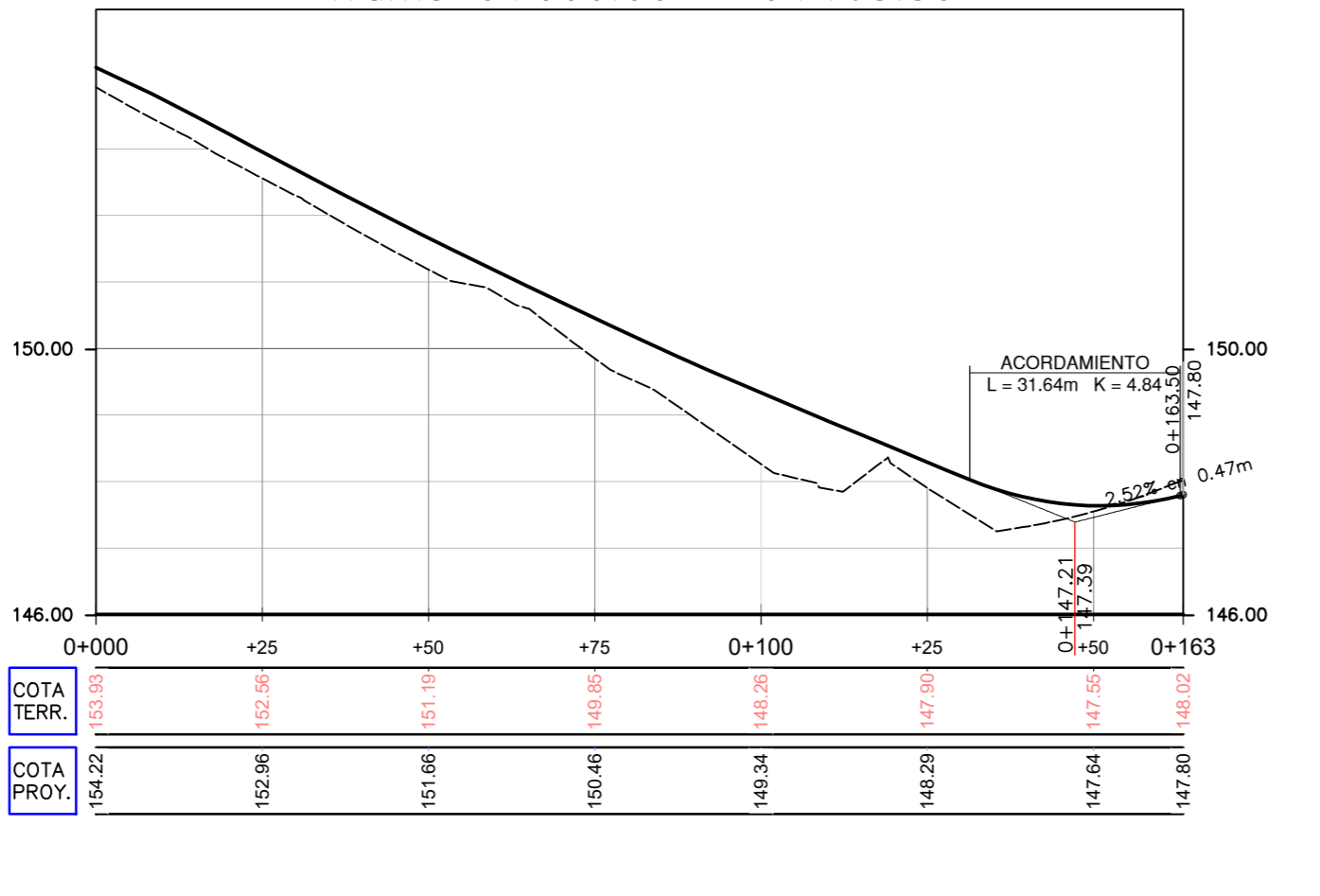
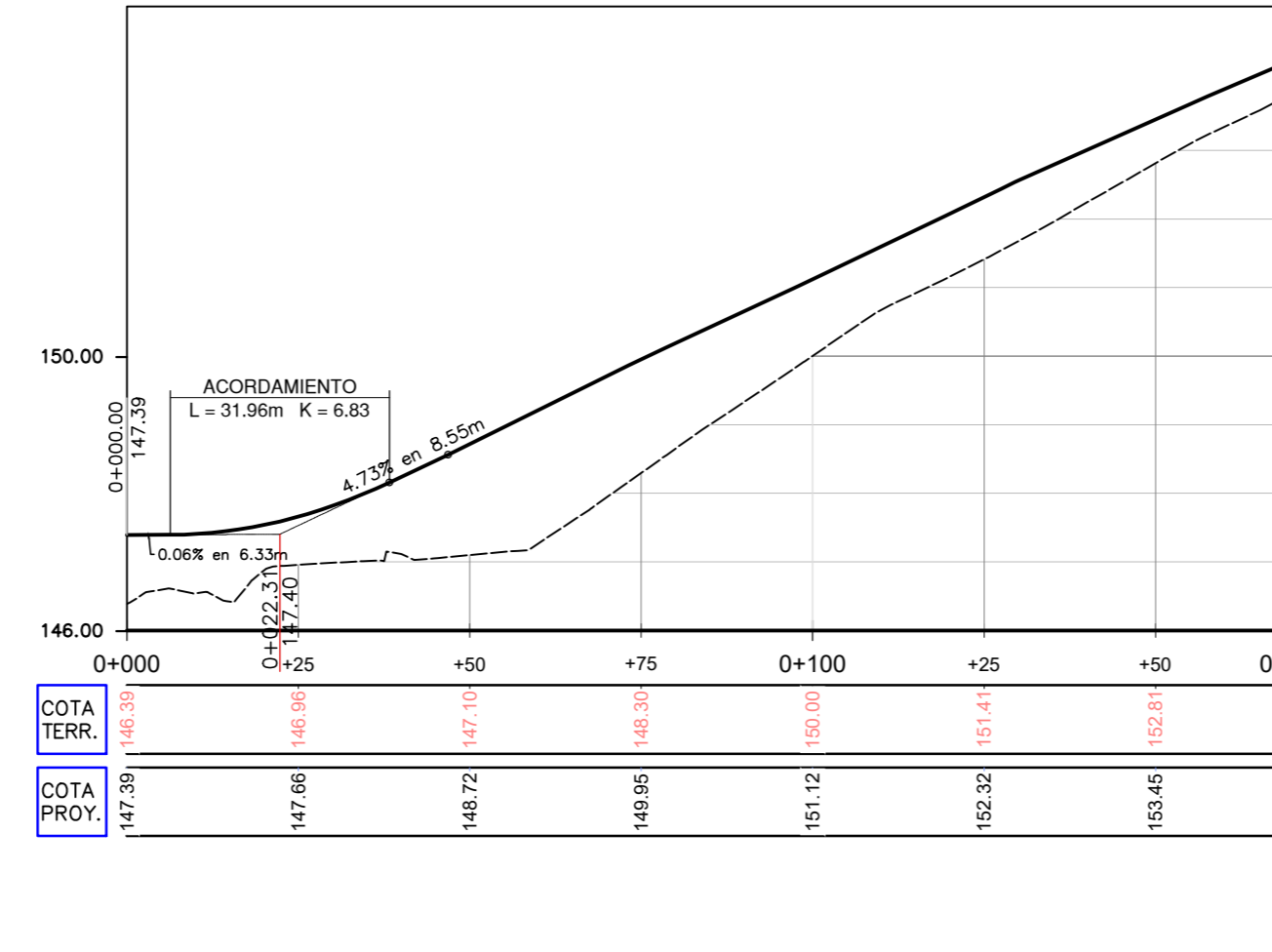
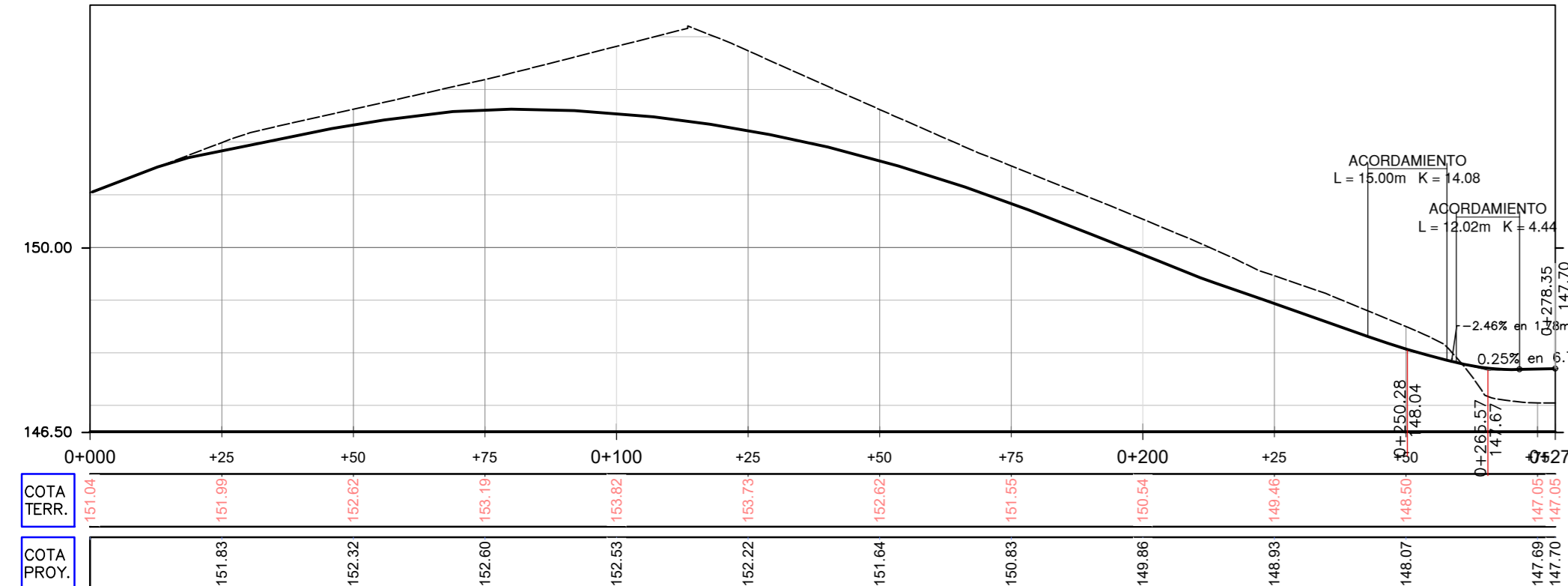
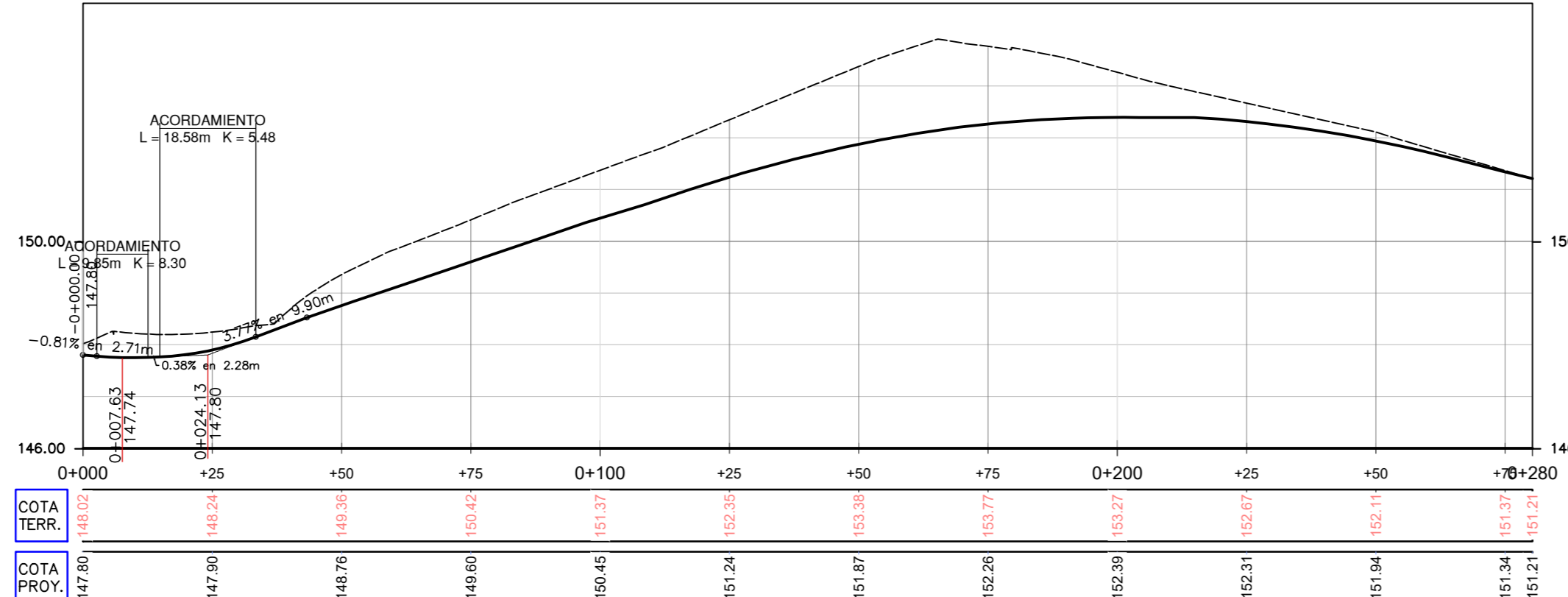
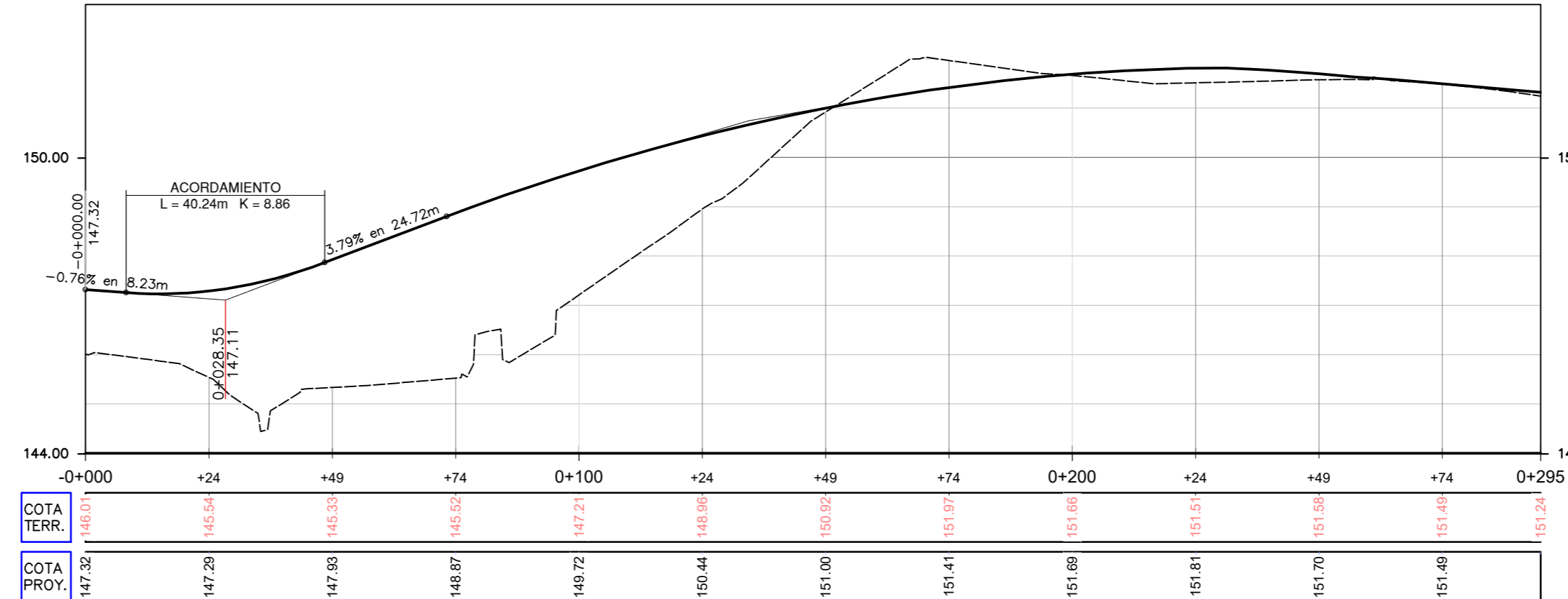
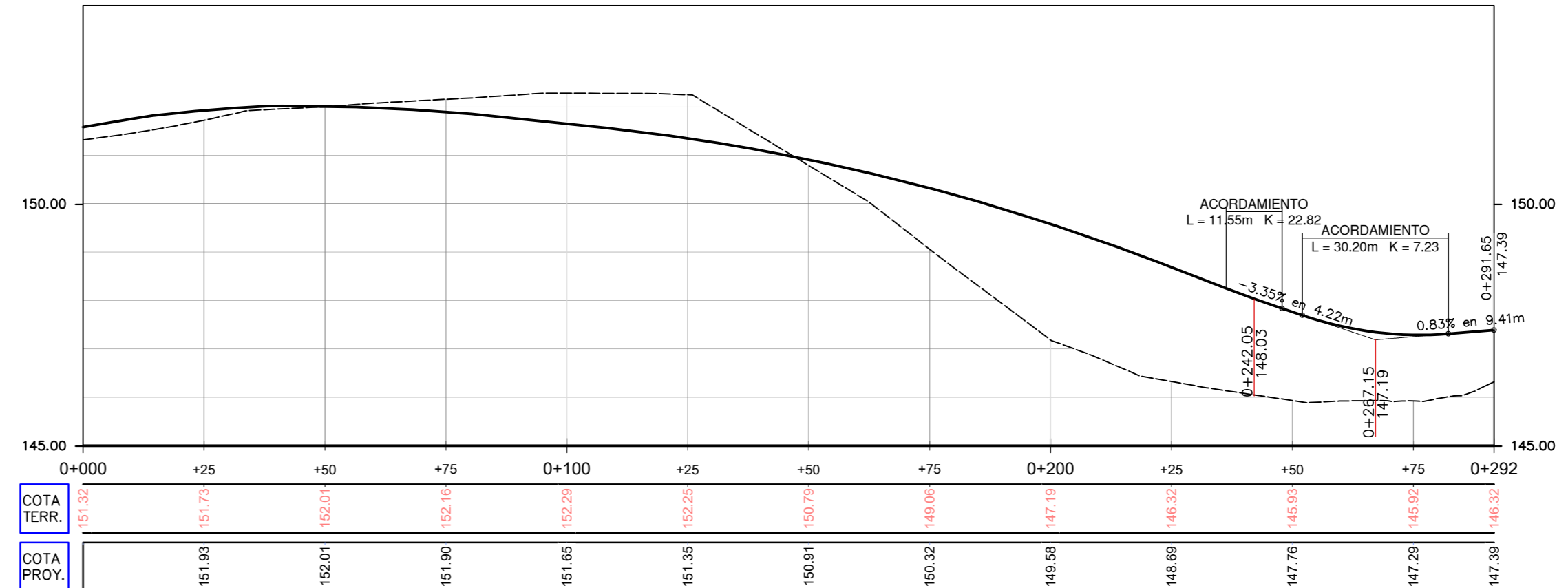


Ruta 31

Perfil Longitudinal CIRCULO INSCRITO
Tramo 0+000.00 - 0+143.56Perfil Longitudinal Eje R31 Este
Tramo 0+000.00 - 0+270.10Perfil Longitudinal Eje DTP
Tramo 0+000.00 - 0+185.42Perfil Longitudinal rama Entrada desde DTP
Tramo 0+000.00 - 0+163.50Perfil Longitudinal Rama Salida hacia DTP
Tramo 0+000.00 - 0+170.06Perfil Longitudinal Rama Entrada R31 Este
Tramo 0+000.00 - 0+278.35Perfil Longitudinal Rama Salida R31 Este
Tramo 0+000.00 - 0+280.29Perfil Longitudinal Rama Salida R31 Oeste
Tramo -0+000.00 - 0+294.94Perfil Longitudinal Rama Entrada R31 Oeste
Tramo 0+000.00 - 0+291.65

ALINEAMIENTO Eje R31 Este									
Elemento	Radio	Longitud	X1	Y1	X2	Y2	INICIO	FIN	
L1	65.56	591702.19	6492617.28	591647.66	6492653.67	0+000.00	0+065.56		
C1	1035.96	115.42	591647.66	6492653.67	591548.20	6492712.12	0+065.56	0+180.98	
L2	89.12	591548.20	6492712.12	591468.33	591468.33	6492751.66	0+180.98	0+270.10	

ALINEAMIENTO Eje R31 Oeste									
Elemento	Radio	Longitud	X1	Y1	X2	Y2	INICIO	FIN	
C2	680.43	52.18	591195.31	6492934.27	591238.00	6492904.29	0+000.00	0+052.18	
L3	130.45	591238.00	6492904.29	591347.33	6492833.13	0+052.18	0+182.63		
C3	11944.92	100.29	591347.33	6492833.13	591431.92	6492779.25	0+182.63	0+282.92	

ALINEAMIENTO Eje DTP									
Elemento	Radio	Longitud	X1	Y1	X2	Y2	INICIO	FIN	
L4	51.86	591377.02	6492571.93	591390.74	6492621.95	0+000.00	0+051.86		
C4	611.30	84.36	591390.74	6492621.95	591418.76	6492701.45	0+051.86	0+136.22	
L5	49.20	591418.76	6492701.45	591438.03	6492746.72	0+136.22	0+185.42		

ALINEAMIENTO CIRCULO INSCRITO									
Elemento	Radio	Longitud	X1	Y1	X2	Y2	INICIO	FIN	
C5	22.85	143.56	591442.25	6492787.22	591442.24	6492787.21	0+000.00	0+143.56	

Puntos Empalme			
Punto #	X	Y	Z
1	591197.53	6492931.11	151.32
2	591233.78	6492933.85	151.38
3	591211.04	6492927.02	151.47
4	591218.42	6492921.83	151.55
5	591232.65	6492912.10	151.68
6	591245.04	6492907.03	151.76
7	591250.84	6492900.23	151.82
8	591259.22	6492894.77	151.80
9	591267.80	6492889.19	151.67
10	591278.83	6492882.01	151.66
11	591283.71	6492872.33	151.47
12	591315.83	6492858.23	151.10
13	591330.78	6492849.19	150.67
14	591347.45	6492837.35	150.17
15	591361.62	6492828.49	149.67
16	591372.88	6492821.49	149.22
17	591388.51	6492811.80	148.94

Puntos Empalme			
Punto #	X	Y	Z
18	591406.97	6492803.11	147.75
19	591434.76	6492796.66	147.51
20	591420.87	6492793.66	147.35
21	591429.66	6492791.00	147.25
22	591437.59	6492789.49	147.24
23	591457.72	6492786.71	147.35
24	591468.59	6492783.85	147.44
25	591472.99	6492769.70	147.70
26	591483.78	6492764.46	147.75
27	591479.37	6492755.69	147.75
28	591489.27	6492747.75	148.07
29	591502.73	6492740.46	148.60
30	591522.81	6492729.19	149.38
31	591537.44	6492721.88	150.05
32	591548.33	6492720.39	150.80
33	591571.70	6492703.71	151.46
34	591588.51	6492696.31	151.85

Puntos Empalme			
Punto #	X	Y	Z
35	591595.91	6492690.12	152.15
36	591609.07	6492682.36	152.40
37	591622.29	6492674.29	152.56
38	591638.86	6492663.77	152.62
39	591655.99	6492654.44	152.45
40	591672.04	6492641.08	152.08
41	591688.16	6492630.97	151.70
42	591703.75	6492620.57	151.16
43	591718.17	6492610.38	150.72
44	591730.09	6492606.32	150.52
45	591736.69	6492600.83	150.21
46	591743.30	6492595.96	150.84
47	591750.43	6492591.06	151.68
48	591756.99	6492584.44	152.45
49	591763.86	6492578.25	153.29
50	591770.75	6492572.46	154.06
51	591778.01	6492566.15	154.80

Puntos Empalme			
Punto #	X	Y	Z
52	591784.82	6492560.02	155.66
53	591792.85	6492554.18	156.47
54	591809.46	6492543.48	157.10
55	591826.22	6492534.57	157.62
56	591843.22	6492524.51	158.18
57	591860.39	6492513.97	158.66
58	591868.16	6492503.97	159.21
59	591883.89	6492494.44	159.83
60	591897.81	6492484.46	160.52
61	591909.09	6492478.25	161.30
62	591926.68	6492462.57	162.15
63	591943.30	6492451.06	163.06
64	591950.43	6492444.44	164.00
65	591956.99	6492438.25	164.96
66	591963.86	6492432.46	165.92
67	591970.75	6492426.71	166.88
68	591978.01	6492420.46	167.84

Puntos Empalme			
Punto #	X	Y	Z
1	591197.53	6492931.11	151.32
2	591233.78	6492933.85	151.38
3	591211.04	6492927.02	151.47
4	591218.42	6492921.83	151.55
5	591232.65	6492912.10	151.68
6	591245.04	6492907.03	151.76
7	591250.84	6492900.23	151.82
8	591259.22	6492894.77	151.80
9	591267.80	6492889.19	151.67
10	591278.83	6492882.01	151.66
11	591283.71	6492872.33	151.47
12	591315.83	6492858.23	151.10
13	591330.78	6492849.19	150.67
14	591347.45	6492837.35	150.17
15	591361.62	6492828.49	149.67
16	591372.88	6492821.49	149.22
17	591388.51	6492811.80	148.94

Puntos Empalme			
Punto #	X	Y	Z
18	591406.97	6492803.11	147.75
19	591434.76	6492796.66	147.51
20	591420.87	6492793.66	147.35
21	591429.66	6492791.00	147.25
22	591437.59	6492789.49	147.24
23	591457.72	6492786.71	147.35
24	591468.59	6492783.85	147.44
25	591472.99	6492769.70	147.70
26	591483.78	6492764.46	147.75
27	591479.37	6492755.69	147.75
28	591489.27	6492747.75	148.07
29	591502.73	6492740.46	148.60
30	591522.81	6492729.19	149.38
31	591537.44	6492721.88	150.05
32	591548.33	6492720.39	150.80
33	591571.70	6492703.71	151.46
34	591588.51	6492696.31	151.85

Puntos Empalme			
Punto #	X	Y	Z
35	591595.91	6492690.12	152.15
36	591609.07	6492682.36	152.40
37	591622.29	6492674.29	152.56
38	591638.86	6492663.77	152.62
39	591655.99	6492654.44	152.45
40	591672.04	6492641.08	152.08
41	591688.16	6492630.97	151.70
42	591703.75	6492620.57	151.16
43	591718.17	6492610.38	150.72
44	591730.09	6492606.32	150.52
45	591736.69	6492600.83	150.21
46	591743.30	6492595.96	150.84
47	591750.43	6492591.06	151.68
48	591756.99	6492584.44	152.45
49	591763.86	6492578.25	153.29
50	591770.75	6492572.46	154.06
51	591778.01	6492566.15	154.80

Puntos Empalme			
Punto #	X	Y	Z
52	591784.82	6492560.02	155.66
53	591792.85	6492554.18	156.47
54	591809.46	6492543.48	157.10
55	591826.22	6492534.57	157.62
56	591843.22	6492524.51	158.18
57	591860.39	6492513.97	158.66
58	591868.16	6492503.97	159.21
59	591883.89	6492494.44	159.83
60	591897.81	6492484.46	160.52
61	591909.09	6492478.25	161.30
62	591926.68	6492462.57	162.15
63	591943.30	6492451.06	163.06
64	591950.43	6492444.44	164.00
65	591956.99	6492438.25	164.96
66	591963.86	6492432.46	165.92
67	591970.75	6492426.71	166.88
68	591978.01	6492420.46	167.84