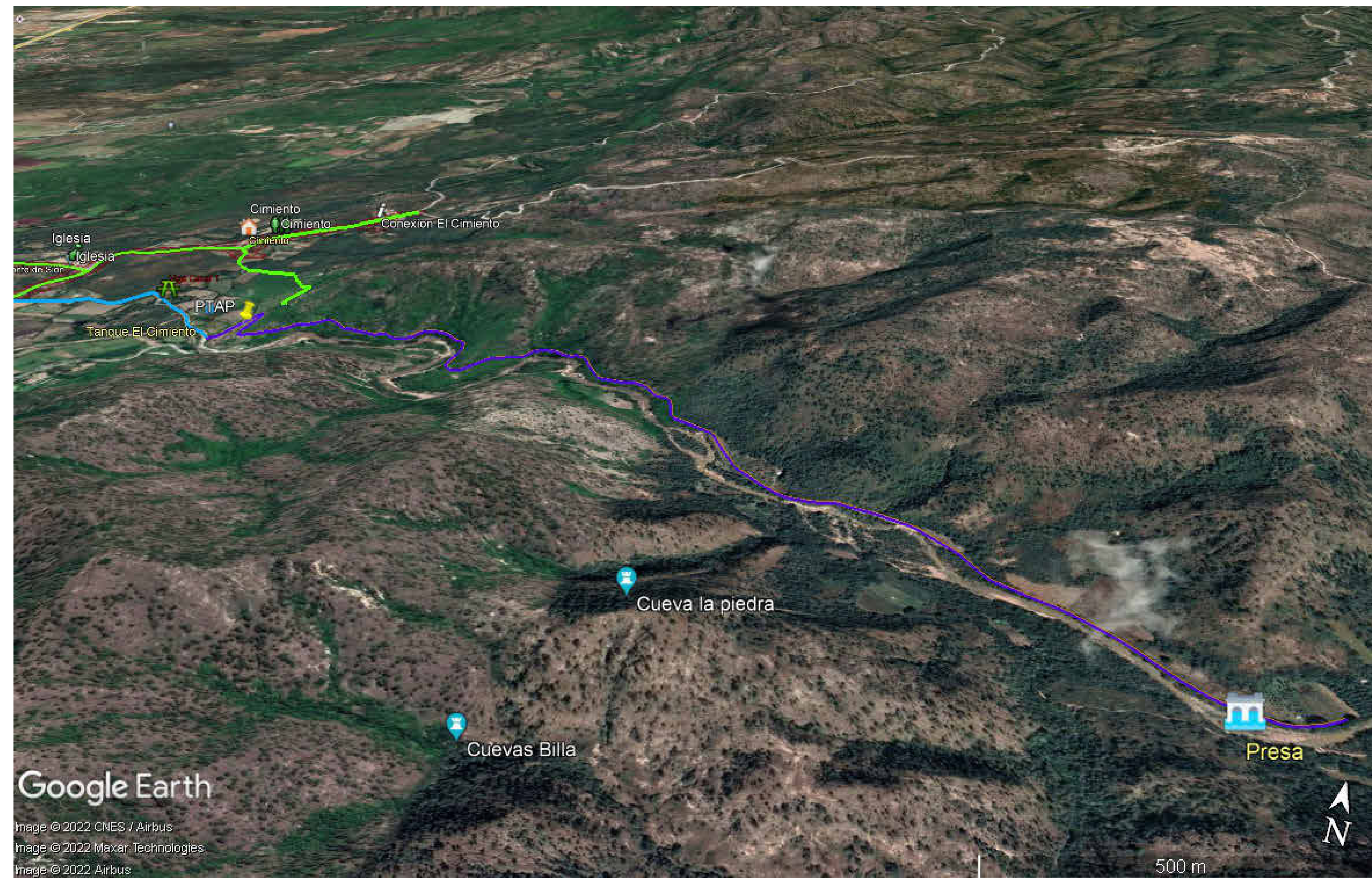


# CAPÍTULO 2

## PROYECTO: SISTEMA PARA LA CALIDAD DEL AGUA EN EL MUNICIPIO DE LA VILLA DE SAN ANTONIO CORREDOR SECO Y TURÍSTICO MARAVILLAS COLONIAL TENAMPÚA, ZONA DE DESARROLLO ECONÓMICO DE PALMEROLA (ZDEP) COMAYAGUA.



### CAPITULO-2

#### A) ÍNDICE DE PLANOS GENERALES DEL ACCESO HACIA UBICACIÓN DE LA PRESA

##### PERFILES, SECCIONES Y ALCANTARILLAS

HOJA	NOMBRE DE PLANO
ACC-01	Plano de Ubicación
ACC-02	Plano de Cantidades de Obra y Detalles de Señalización
ACC-03	Plano de Sección Típica y Detalle de Drenaje
ACC-04	Planta y Perfil, Trayecto Est. 0+000.00 a Est. 0+800.00
ACC-05	Planta y Perfil, Trayecto Est. 0+800.00 a Est. 1+600.00
ACC-06	Planta y Perfil, Trayecto Est. 1+600.00 a Est. 2+400.00
ACC-07	Planta y Perfil, Trayecto Est. 2+400.00 a Est. 3+200.00
ACC-08	Planta y Perfil, Trayecto Est. 3+200.00 a Est. 4+000.00
ACC-09	Planta y Perfil, Trayecto Est. 4+000.00 a Est. 4+250.175
ACC-10	Planta de Señalización, Trayecto Est. 0+000.00 a Est. 2+400.00
ACC-11	Planta de Señalización, Trayecto Est. 2+400.00 a Est. 4+250.175
ACC-12	Plano de Diagrama de Masas Trayecto, Est. 0+000.00 a Est. 4+250.175
ACC-13	Secciones Transversales Trayecto, Est. 0+000.00 a Est. 0+680
ACC-14	Secciones Transversales Trayecto, Est. 0+700.00 a Est. 1+160
ACC-15	Secciones Transversales Trayecto Est. 1+180.00 a Est. 1+660
ACC-16	Secciones Transversales Trayecto, Est. 1+680.00 a Est. 1+980
ACC-17	Secciones Transversales Trayecto, Est. 2+000.00 a Est. 2+220
ACC-18	Secciones Transversales Trayecto, Est. 2+240.00 a Est. 2+460
ACC-19	Secciones Transversales Trayecto, Est. 2+480.00 a Est. 2+700
ACC-20	Secciones Transversales Trayecto, Est. 2+720.00 a Est. 2+860
ACC-21	Secciones Transversales Trayecto, Est. 2+880.00 a Est. 2+980
ACC-22	Secciones Transversales Trayecto, Est. 3+000.00 a Est. 3+160
ACC-23	Secciones Transversales Trayecto, Est. 3+180.00 a Est. 3+220
ACC-24	Secciones Transversales Trayecto, Est. 3+240.00 a Est. 3+400
ACC-25	Secciones Transversales Trayecto, Est. 3+420.00 a Est. 3+640
ACC-26	Secciones Transversales Trayecto, Est. 3+660.00 a Est. 3+800
ACC-27	Secciones Transversales Trayecto, Est. 3+820.00 a Est. 3+980
ACC-28	Secciones Transversales Trayecto, Est. 4+000.00 a Est. 4+220
ACC-29	Secciones Transversales Trayecto, Est. 4+240.00 a Est. 4+250.175
ACC-30	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-31	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-32	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-33	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-34	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-35	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-36	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-37	Plano de Alcantarillas Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-38	Plano de Alcantarilla Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-39	Plano de Alcantarilla Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-40	Plano de Alcantarilla Trayecto, Est. 0+000.00 a Est. 2+400.00
ACC-41	Plano de Alcantarilla Trayecto, Est. 0+000.00 a Est. 2+400.00

##### PASOS VEHICULARES

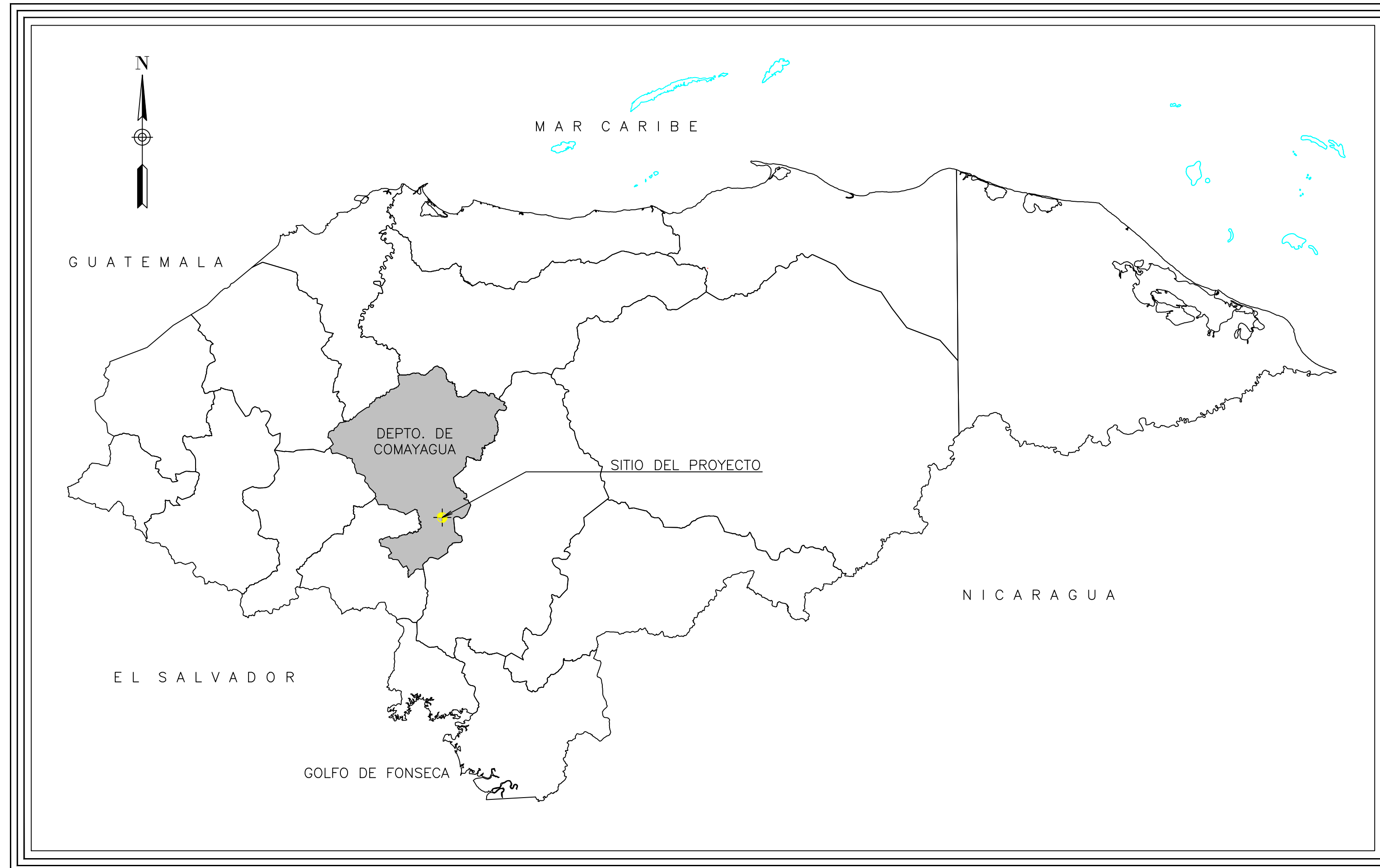
HOJA	NOMBRE DE PLANO
ESPV-01	Plano de Detalles de Cuneta y Paso Vehicular

#### B) ÍNDICE DE NOTAS ESTRUCTURALES GENERALES

##### ESTRUCTURALES

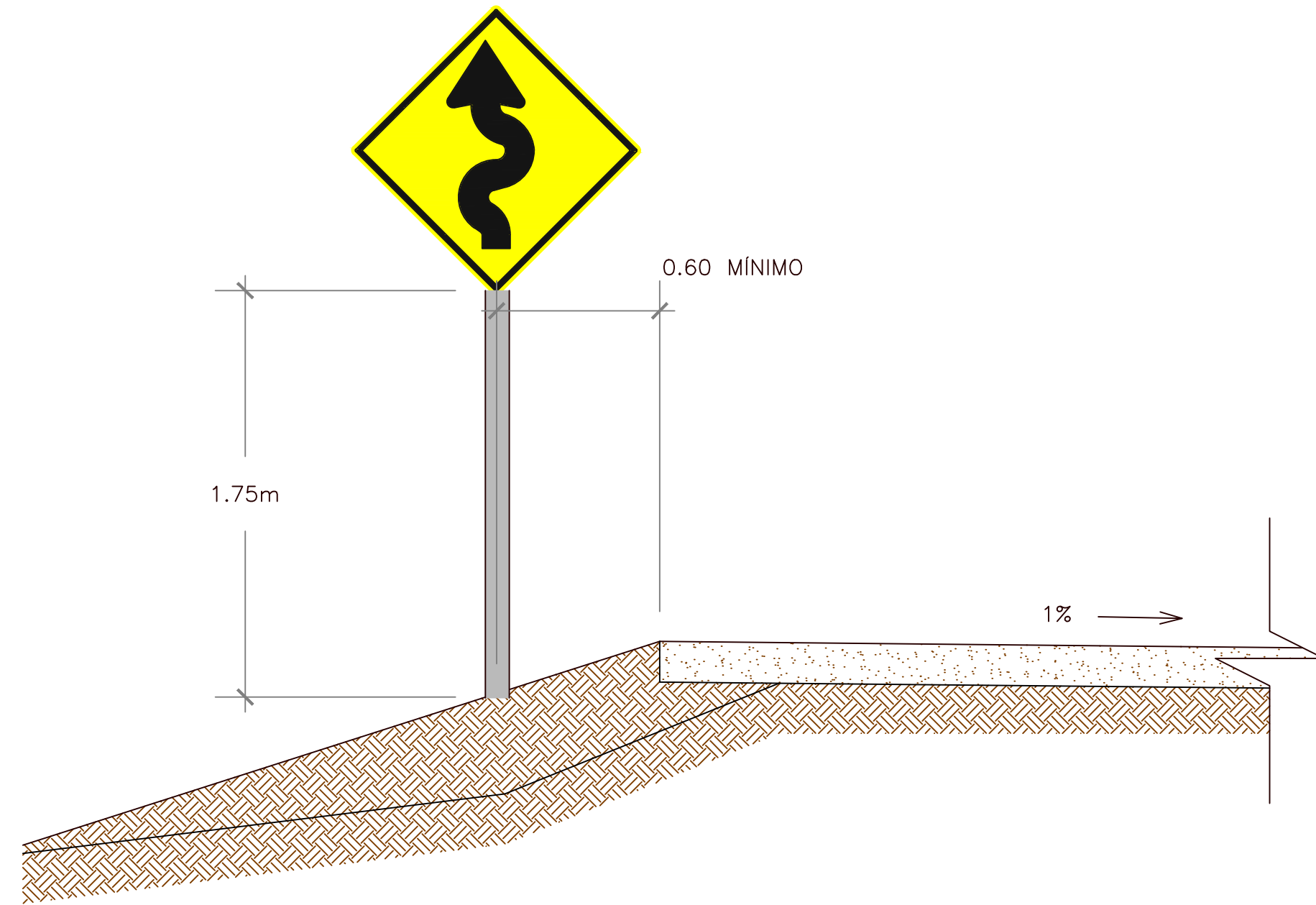
HOJA	NOMBRE DE PLANO
ES-01	Plano de Notas Estructurales-01
ES-02	Plano de Notas Estructurales-02

Levantó	:	DIXON DIAZ	
Dibujó/Calculó	:	ING. ANA IRIAS	
Proyectó	:	ING. OSCAR ESPINO	CICH 4584
Revisó	:	ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	:	ING. MANUEL CONDE CUEVAS	CICH 4028



DETALLE DE MONTAJE DE SEÑALES

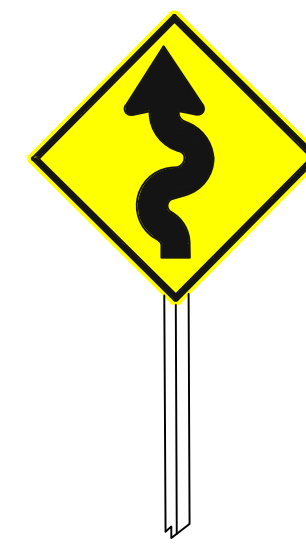
CATÁLOGO SEÑALIZACIÓN VERTICAL EST. 0+000 - 4+250.175



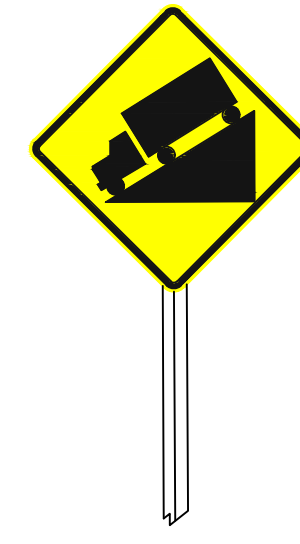
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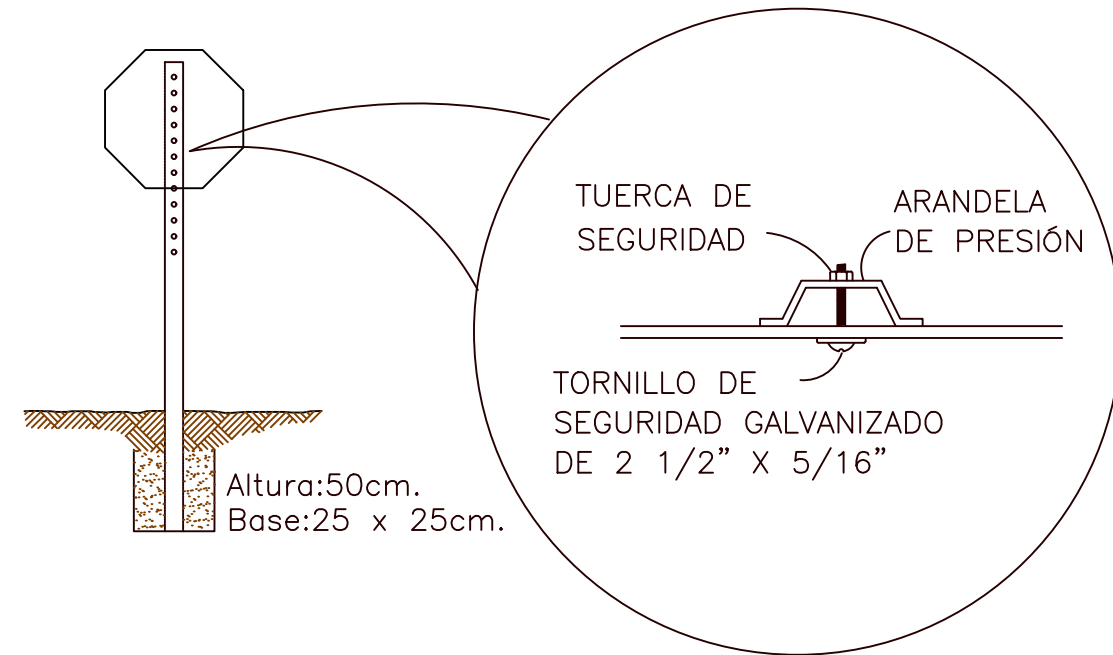
R-13-1  
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P-1-5  
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P-6-3  
0.91X0.91

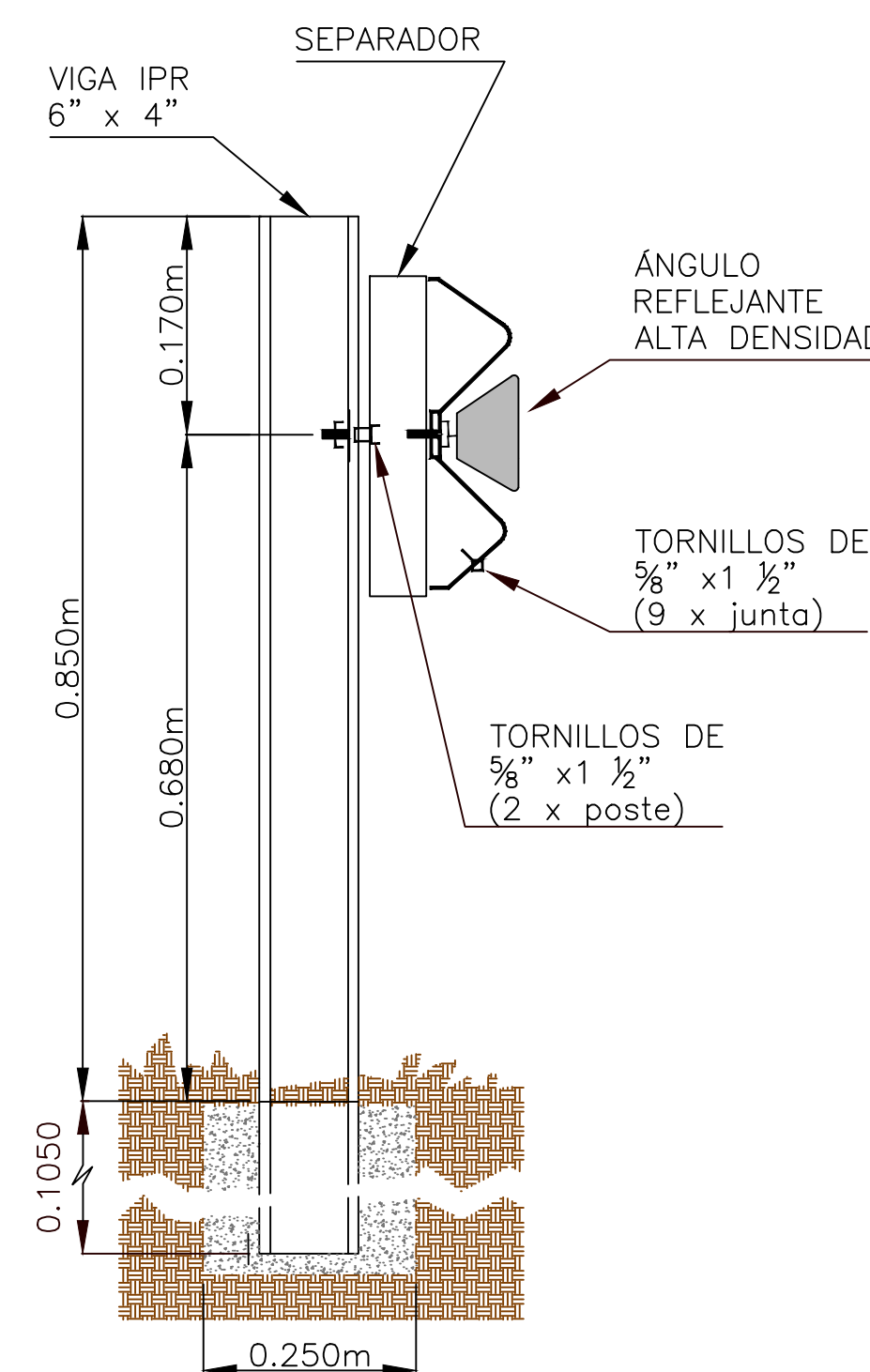


\*NOTA: LA REUBICACIÓN DE LAS SEÑALES VERTICALES QUEDARÁ A CRITERIO DEL ING. RESIDENTE EN FUNCIÓN DEL ESPACIO DISPONIBLE.

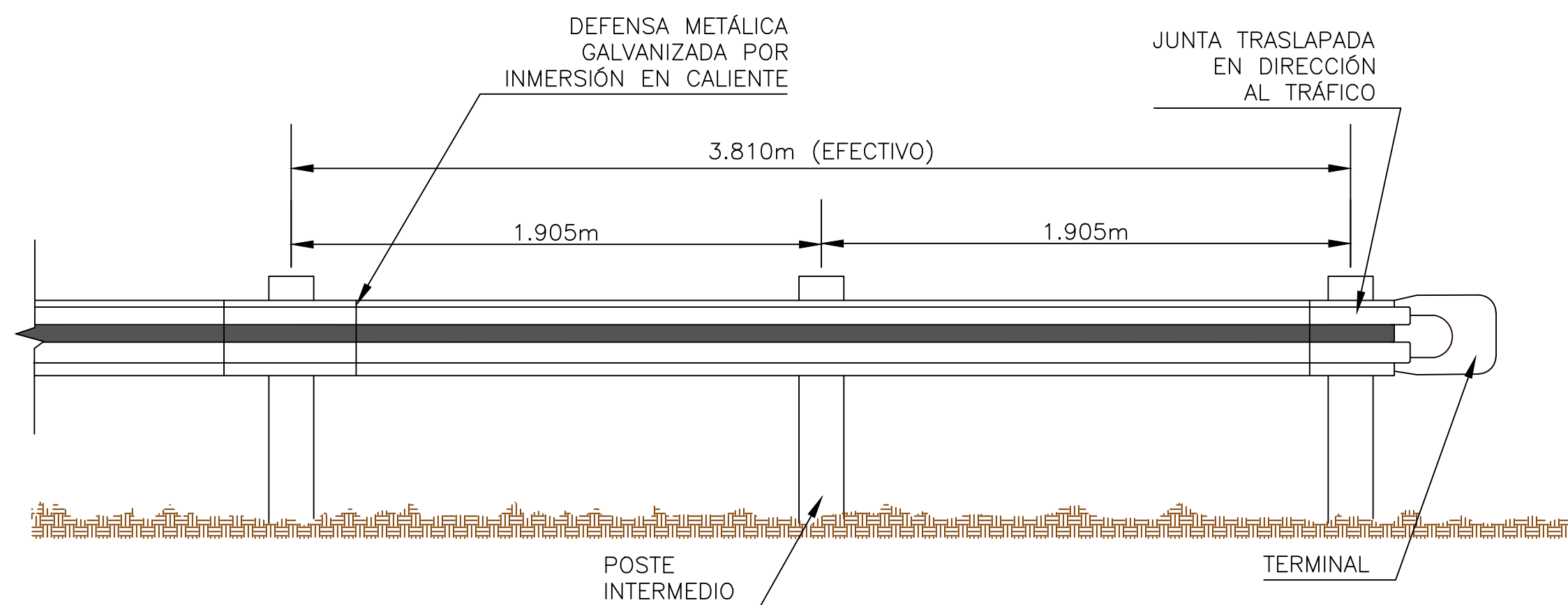
ITEM	DESCRIPCIÓN	UNIDAD	CANTIDAD
<b>ACP-12101-1 ACTIVIDADES PRELIMINARES</b>			
ACP-12101-1.1	LIMPIEZA DE DERECHO DE VIA	ha	3.40014
ACP-12101-1.2	TRABAJOS DE TOPOGRAFIA	km	4.25
<b>ACT-12101-2 ACTIVIDADES DE TERRACERIA</b>			
ACT-12101-2.1	EXCAVACIÓN COMUN (TIPO I)	m3	19747.94
ACT-12101-2.2	EXCAVACIÓN MATERIAL SEMIDURO (TIPO II)	m3	32913.23
ACT-12101-2.3	EXCAVACIÓN EN ROCA (TIPO III)	m3	13165.29
ACT-12101-2.4	BALASTADO CON MATERIAL SELECTO e=15cms	m3	3187.6305
ACT-12101-2.5	HUELLAS DE CONCRETO 210 Kg/cm2 CANT 4 DE e=0.15m EN PEND. MAYORES A 12%	mL	943.78
ACT-12101-2.6	SOBRE ACARREO DE MATERIAL	km-m3	425000
ACT-12101-2.7	RELLENO DE MATERIAL	m3	10899.18
<b>ACD-12101-3 ACTIVIDADES DE DRENAJE Y OBRA CIVILES MENORES</b>			
ACD-12101-3.1	SUMINISTRO E INSTALACIÓN DE TUBERIA RIB LOC Ø 24"	mL	148
ACD-12101-3.2	SUMINISTRO E INSTALACIÓN DE TUBERIA RIB LOC Ø 36"	mL	48
ACD-12101-3.3	MAMPOSTERIA PARA ESTRUCTURAS MENORES DE DRENAJE (CABEZALES)	m3	73.98
ACD-12101-3.4	REVESTIMIENTO O ENCHAPE DE CUNETAS DE MAMPOSTERIA e= 10cm	m2	4641
ACD-12101-3.5	TRAGANTE VERTICAL DE Ø 24" H= 1.00m A 1.50m	unidad	11
ACD-12101-3.6	ENCHAPE DE MAMPOSTERIA PARA CANALIZACION DE AGUA e=0.10m	m2	300
<b>ACS-12101-4 ACTIVIDADES DE SEÑALIZACION Y MEDIDAS DE SEGURIDAD</b>			
ACS-12101-4.1	SUM. E INSTALACION DE SEÑAL VERTICAL PREVENTIVA (P-1-5) DE 0.91m x 0.91m	unidad	4
ACS-12101-4.2	SUM. E INSTALACION DE SEÑAL VERTICAL PREVENTIVA (P-6-3) DE 0.91m x 0.91m	unidad	3
ACS-12101-4.3	SUM. E INSTALACION DE SEÑAL VERTICAL REGLAMENTARIA (R-2-1) DE 0.91m x 1.37m	unidad	4

DETALLE DE BARRERA METÁLICA

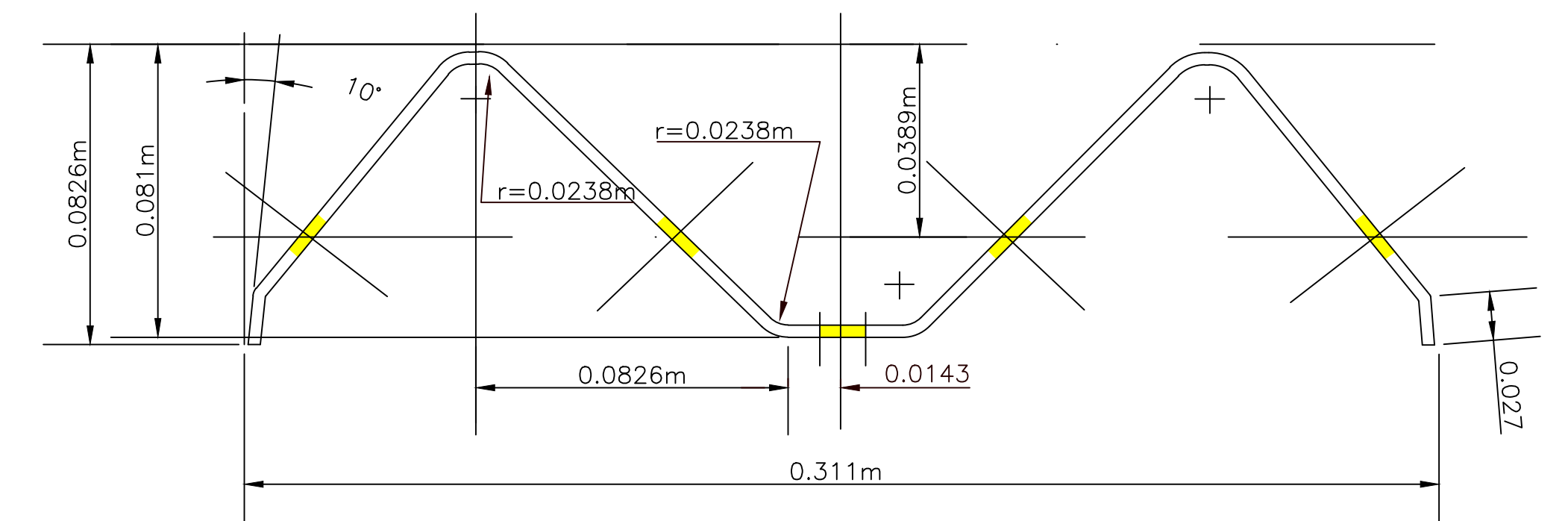
VISTA TRANSVERSAL  
COTAS EN MM

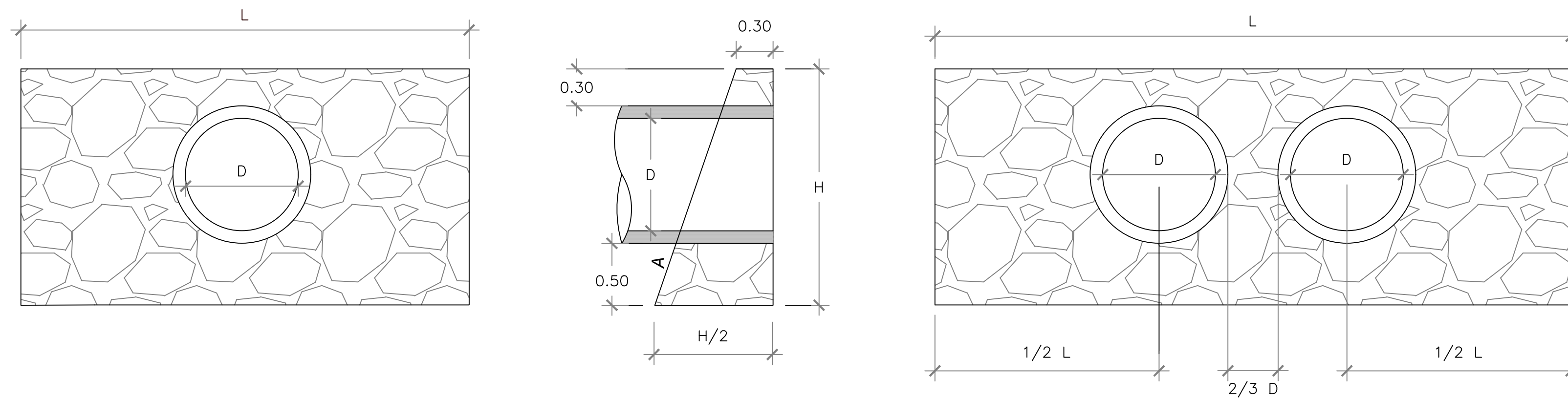
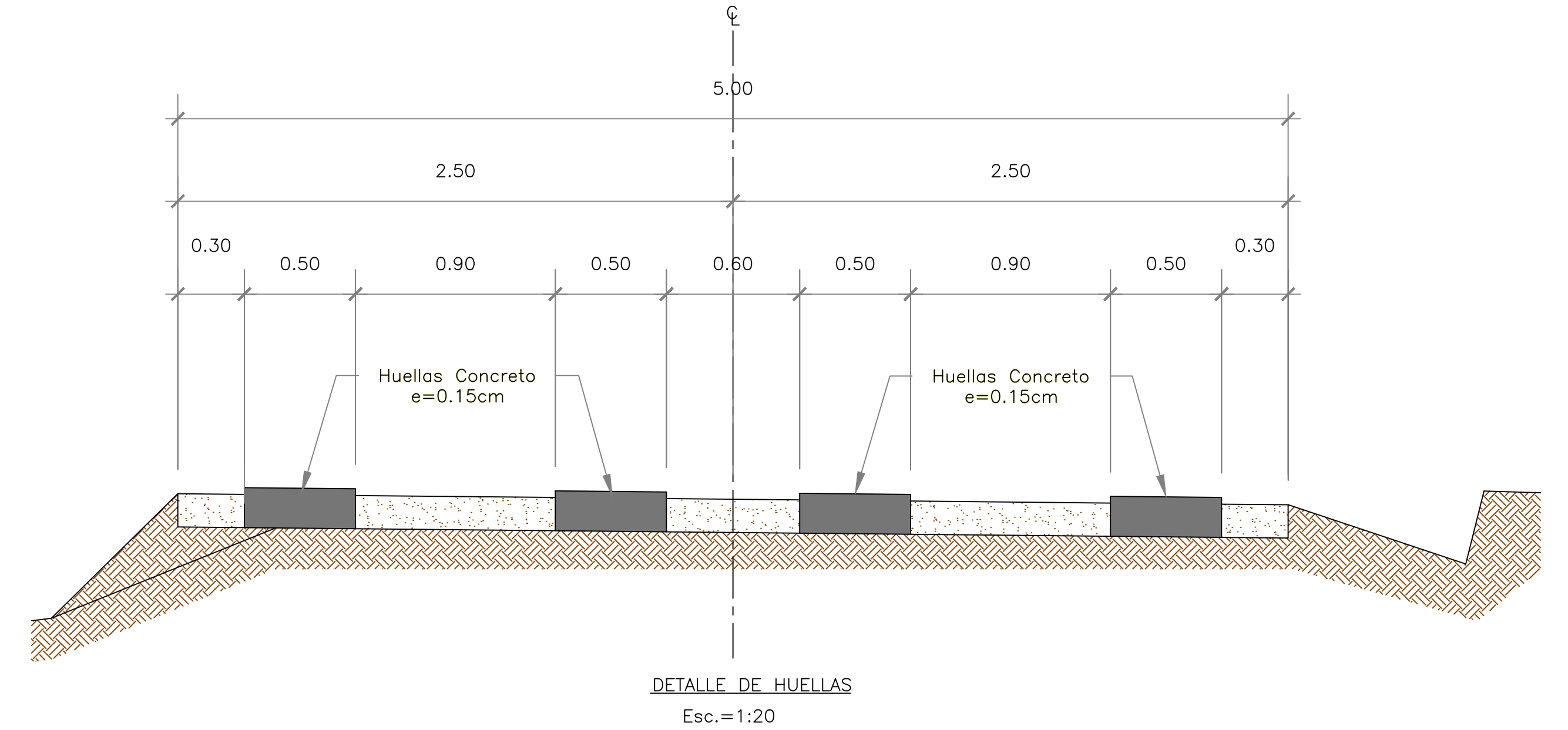
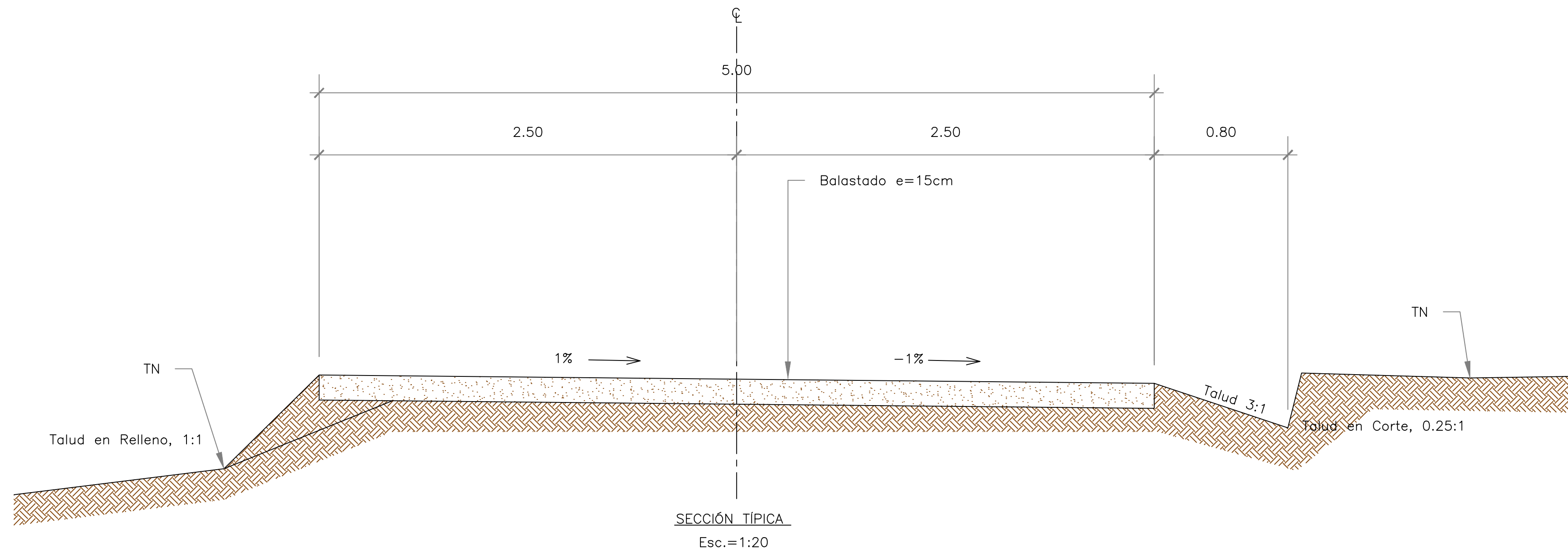


VISTA LONGITUDINAL  
COTAS EN MM

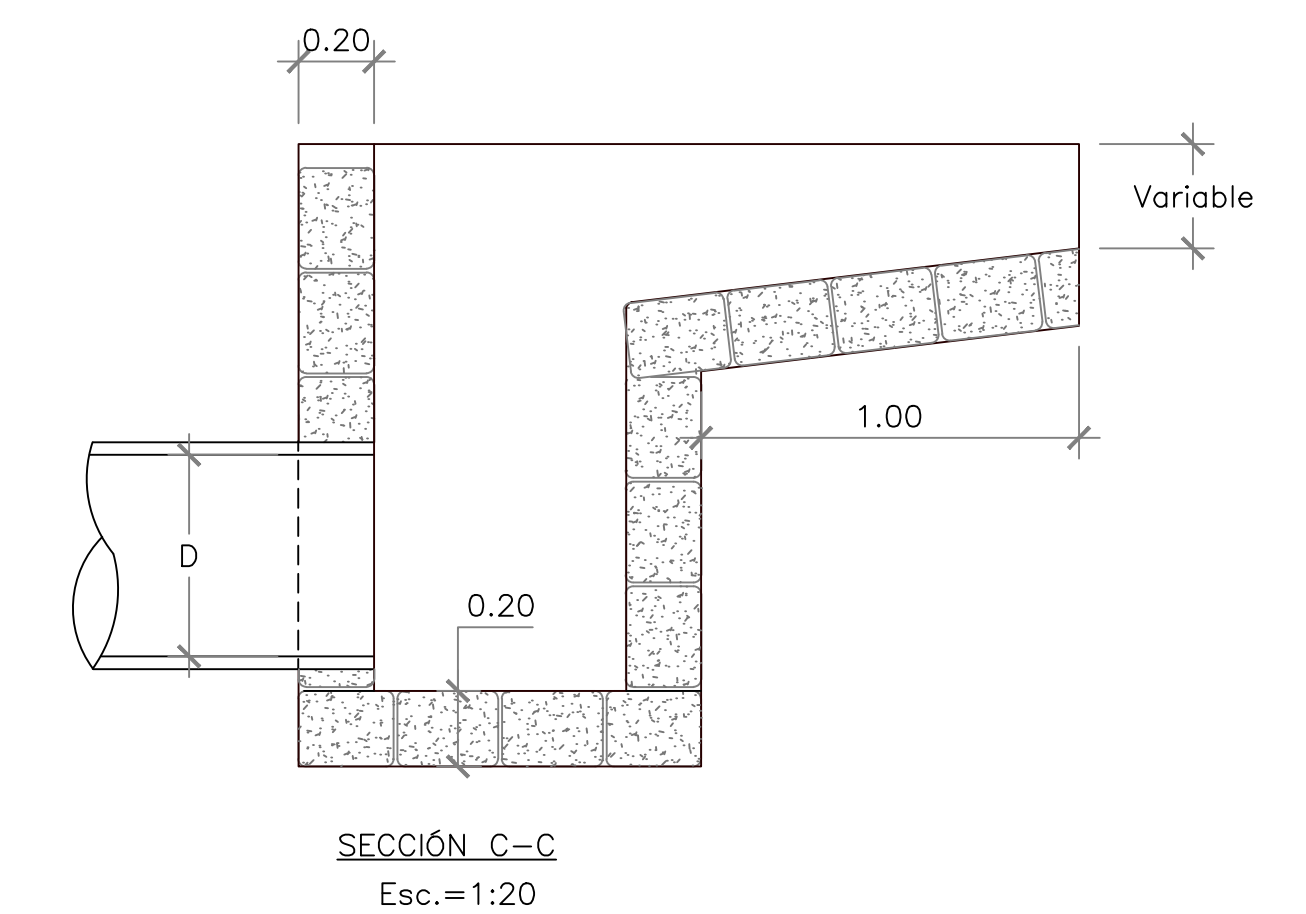
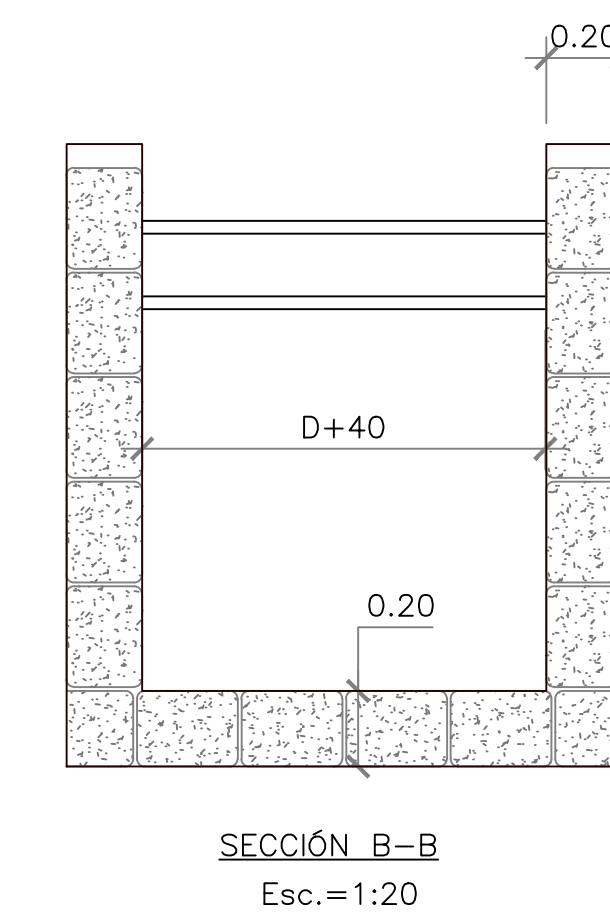
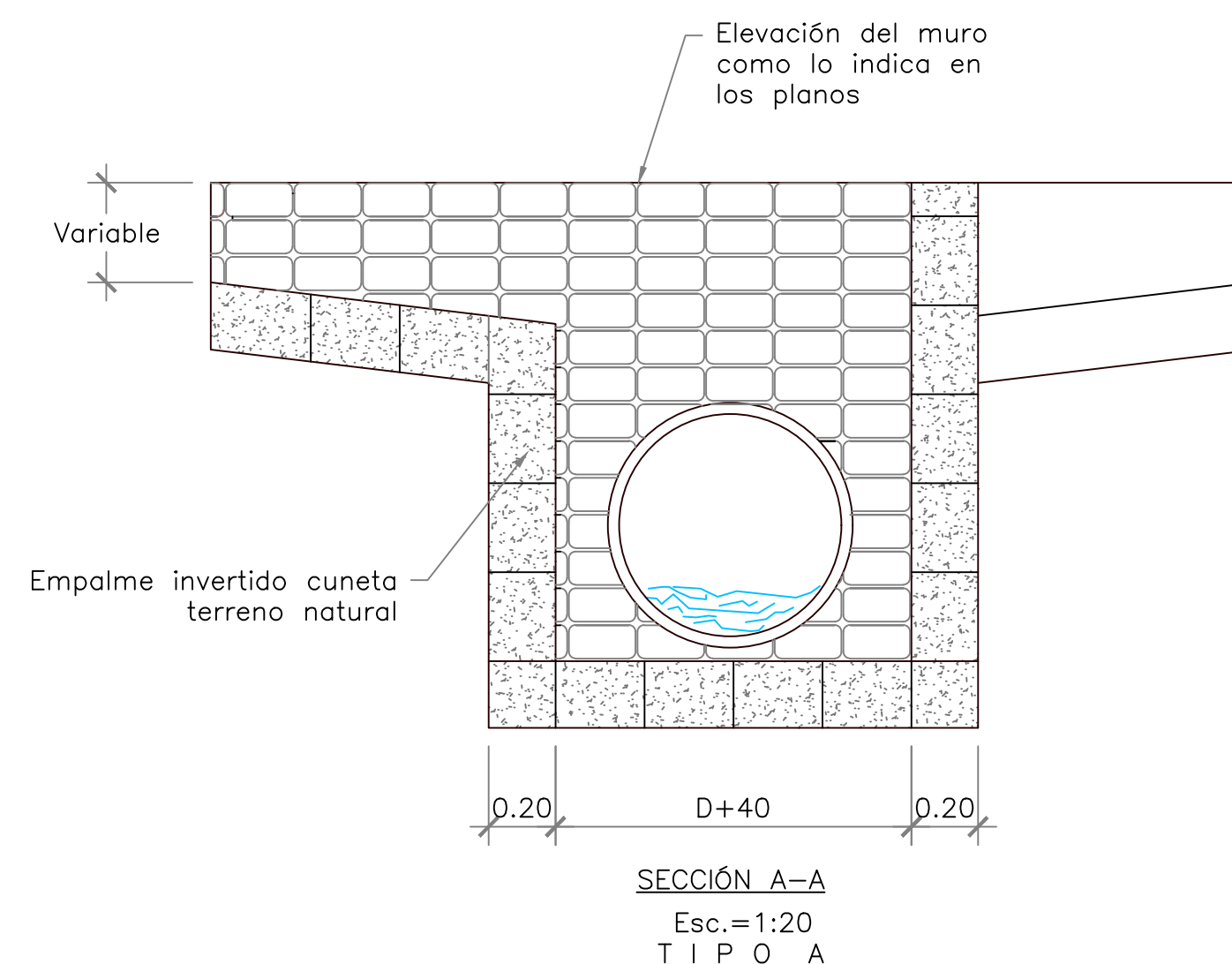
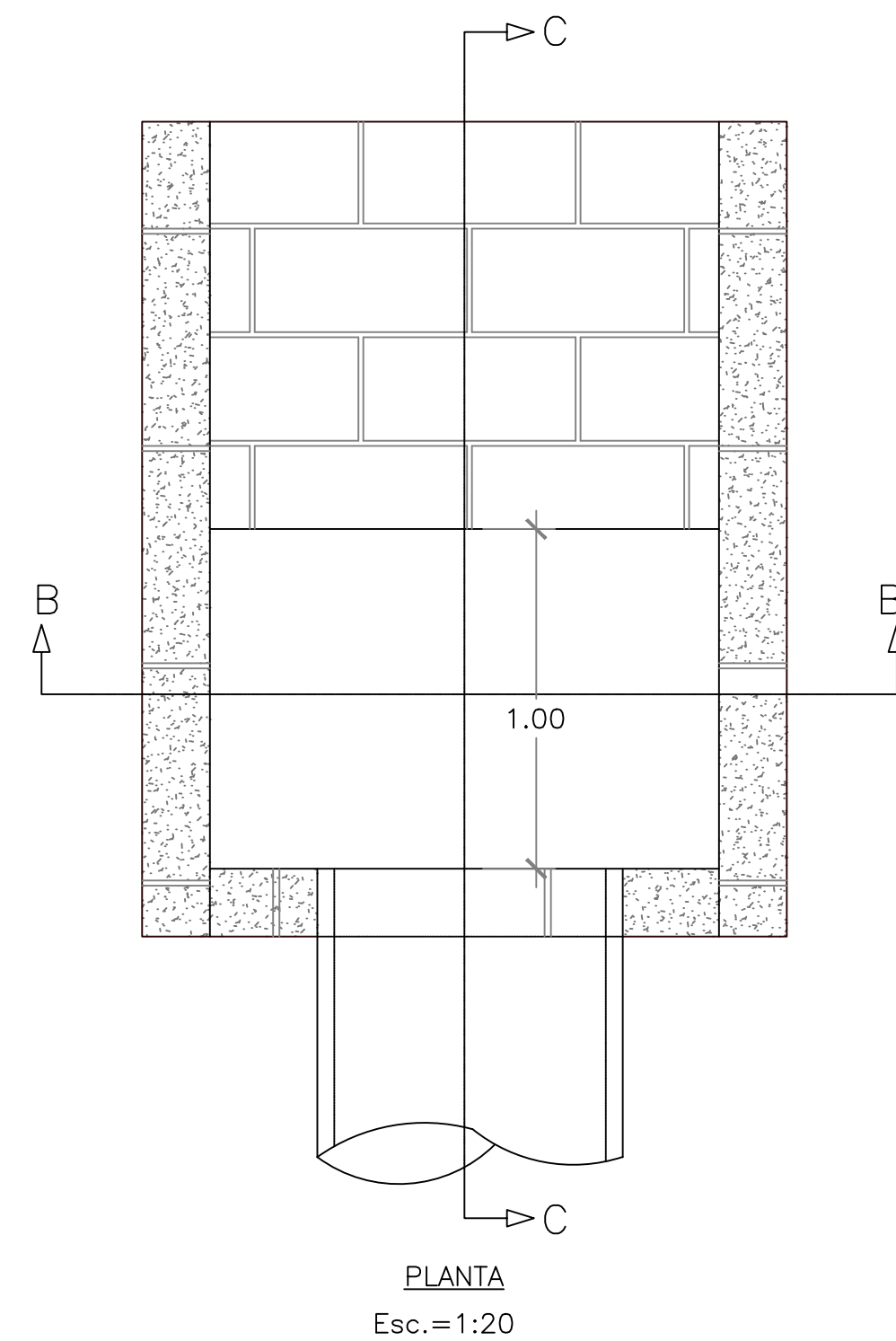
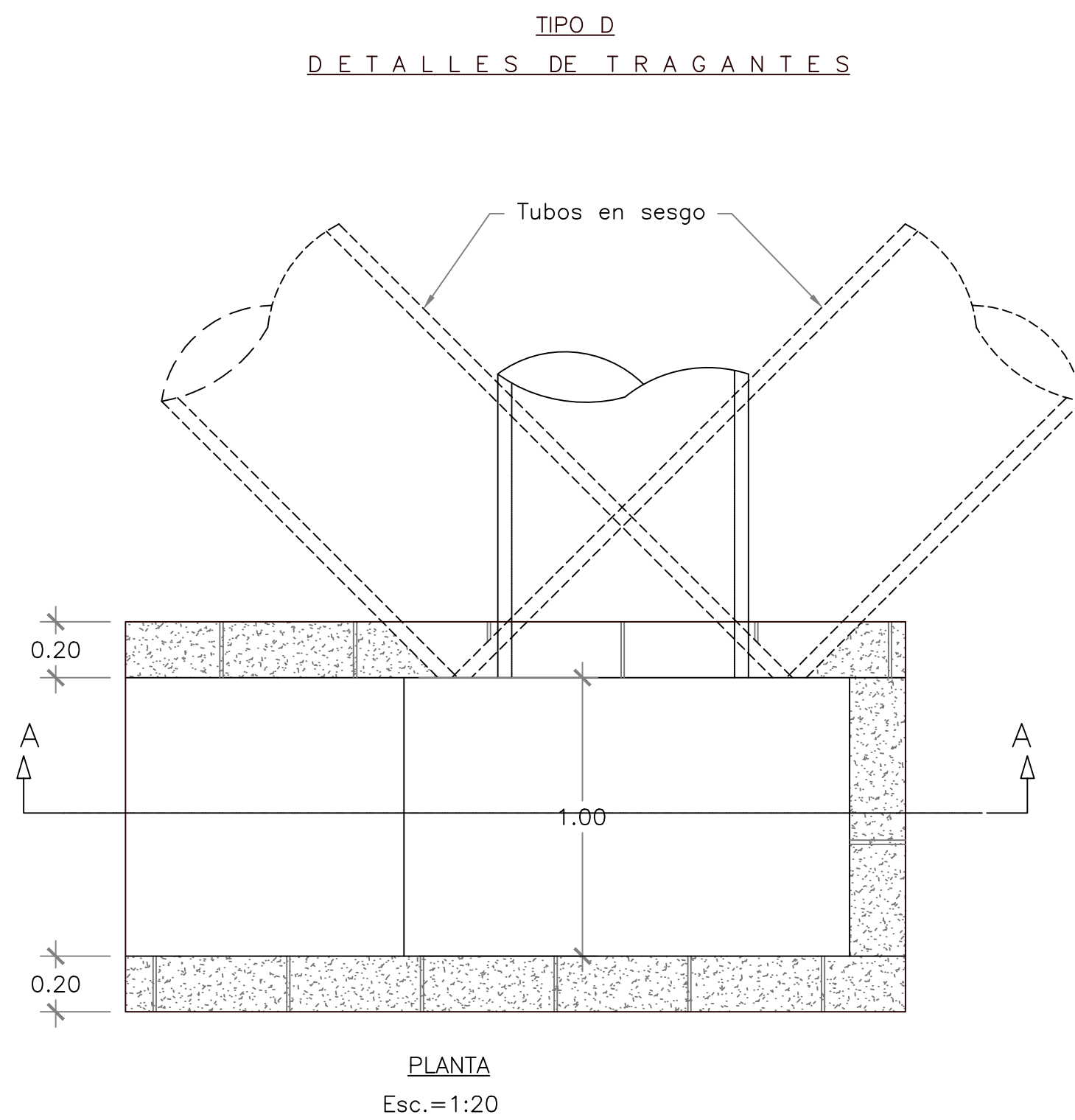
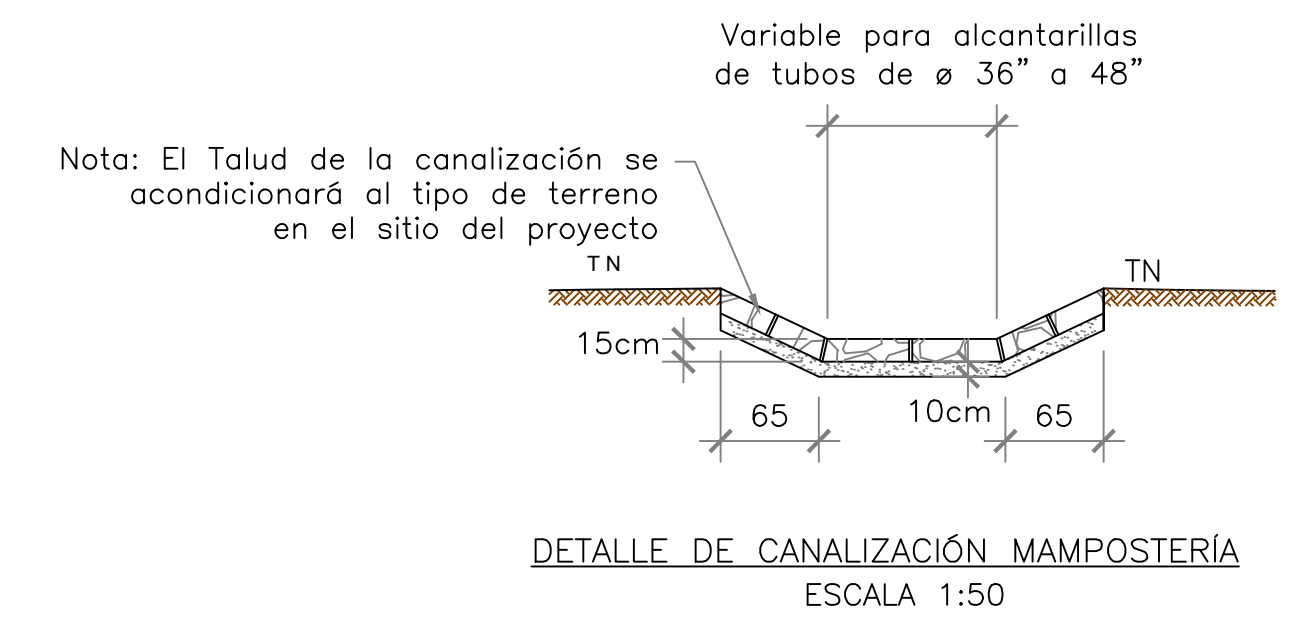


CORTE TRANSVERSAL DESPUES DEL FORMADO DEFENSA METÁLICA NORMAL  
COTAS EN METROS





DATOS DE CONSTRUCCIÓN										CANTIDADES					
Diámetro Interno	Diámetro Externo	A	B	C	H	Volumen del Tubo	Tubo Simple		Tubo Doble		Tubo Triple				
							L	Volumen	L	Volumen	L	Volumen			
pulg.	cm	pulg.	cm	m	m	m	m	m <sup>3</sup>	m	m <sup>3</sup>	m	m <sup>3</sup>	m	m <sup>3</sup>	
24"	60.96	30"	76.20	0.40	0.30	0.30	1.46	0.23	2.44	3.24					
36"	91.44	44"	111.76	0.50	0.30	0.30	1.92	0.59	3.64	7.62	5.16	10.12	6.69	12.66	
42"	106.68	51"	129.54	0.60	0.30	0.30	2.20	0.86	4.28	11.46	6.06	15.22	7.84	19.02	
48"	121.92	58"	147.32	0.60	0.30	0.30	2.37	1.17	4.88	15.04	6.91	19.88	8.94	24.74	
60"	152.40	72.5"	184.15	0.60	0.30	0.30	2.74	2.07	6.08	23.84	8.62	31.38	11.16	38.94	
72"	182.88	86"	218.44	0.60	0.30	0.30	3.08	3.23	7.32	35.04	10.37	45.86	13.42	56.68	



**TIPO D**  
**DETALLES DE TRAGANTES**



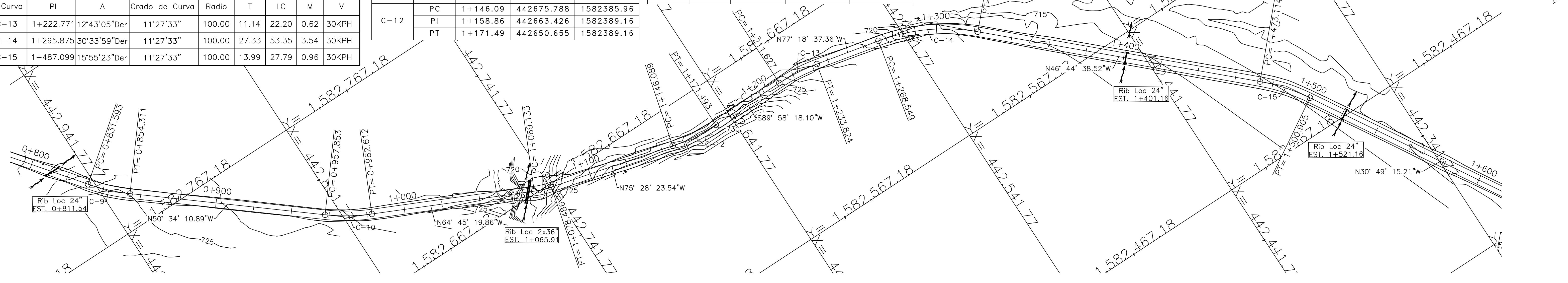
# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-9	0+843.001	13°00'59"lza	11°27'33"	100.00	11.41	22.72	0.64	30KPH
C-10	0+970.297	14°11'09"lza	11°27'33"	100.00	12.44	24.76	0.77	30KPH
C-11	1+073.823	10°43'04"lza	22°55'06"	50.00	4.69	9.35	0.22	30KPH
C-12	1+158.860	14°33'18"lza	11°27'33"	100.00	12.77	25.40	0.81	30KPH

# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-13	1+222.771	12°43'05"Der	11°27'33"	100.00	11.14	22.20	0.62	30KPH
C-14	1+295.875	30°33'59"Der	11°27'33"	100.00	27.33	53.35	3.54	30KPH
C-15	1+487.099	15°55'23"Der	11°27'33"	100.00	13.99	27.79	0.96	30KPH

CURVA	PUNTO	EST	ESTE	NORTE
C-9	PC	0+831.59	442944.876	1582233.66
	PI	0+843.00	442937.923	1582242.71
	PT	0+854.31	442929.112	1582249.95
C-10	PC	0+957.85	442849.136	1582315.72
	PI	0+970.30	442839.525	1582323.62
	PT	0+982.61	442828.27	1582328.93
C-11	PC	1+069.13	442750.013	1582365.83
	PI	1+073.82	442745.77	1582367.83
	PT	1+078.49	442741.23	1582369.00
C-12	PC	1+146.09	442675.788	1582385.96
	PI	1+158.86	442663.426	1582389.16
	PT	1+171.49	442650.655	1582389.16

CURVA	PUNTO	EST	ESTE	NORTE
C-13	PC	1+211.63	442610.521	1582389.14
	PI	1+222.77	442599.377	1582389.13
	PT	1+233.82	442588.505	1582391.58
C-14	PC	1+268.55	442554.627	1582399.21
	PI	1+295.87	442527.969	1582405.21
	PT	1+321.90	442508.068	1582423.94
C-15	PC	1+473.11	442397.938	1582527.56
	PI	1+487.10	442387.752	1582537.14
	PT	1+500.90	442380.586	1582549.15

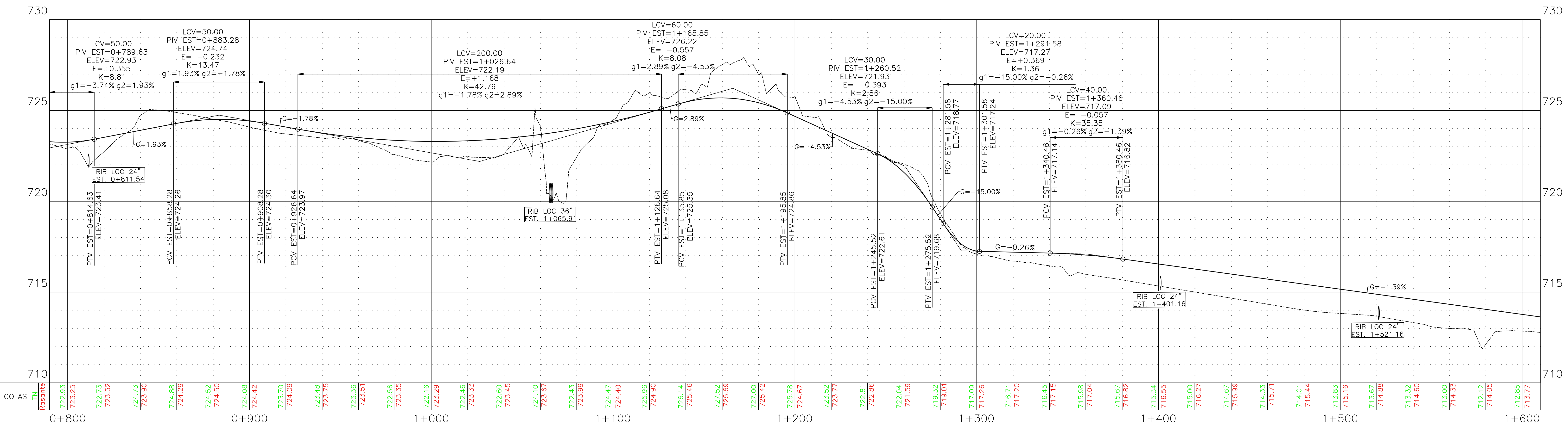
EJE DE PROYECTO	REFERENCIA
ALCANTARILLA	
CURVA DE NIVEL PRINCIPAL	
CURVA DE NIVEL SECUNDARIA	
LÍNEAS DE CORTE	
LÍNEAS DE RELLENO	
QUEBRADAS Y RÍOS	



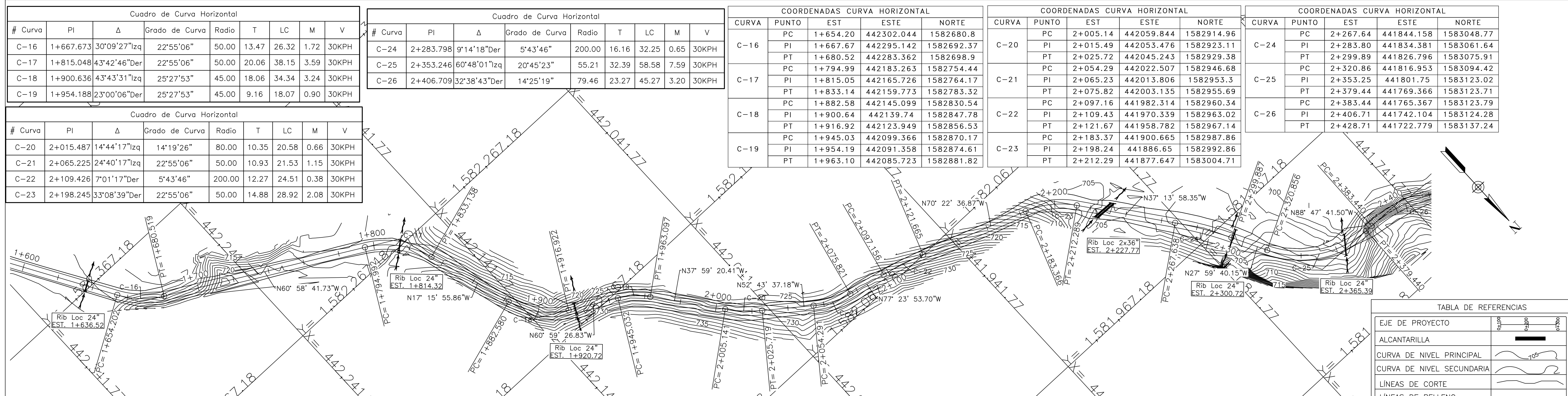
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM X	COORDENADAS UTM Y	MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	IZQ	DER	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
1	ALCANTARILLA	0+811.54	442957.10	1582217.76	RIB LOC 24"	50°41'32"	722.02	721.87	721.71	4	4	8	3.87	D-I	1	1	Acondicionar entrada y salida.
2	ALCANTARILLA	1+065.91	442752.93	1582364.45	2XRIB LOC 36"	72°10'34"	720.19	719.89	719.59	6	6	12	5.00	D-I	1	1	Acondicionar entrada y salida.
3	ALCANTARILLA	1+401.16	442450.35	1582478.25	RIB LOC 24"	NORMAL	715.21	715.15	715.09	3	3	6	2.00	D-I	1	1	Acondicionar entrada y salida.
4	ALCANTARILLA	1+521.16	442370.22	1582566.54	RIB LOC 24"	NORMAL	713.54	713.48	713.42	3	3	6	2.00	D-I	1	1	Acondicionar entrada y salida.

TERRACERIA	
VOL. DE CORTE:	1632.23 m³
VOL. DE RELLENO:	2936.63 m³

OCTUBRE 2020 DEL ACC-04 AL ACC-09.dwg



COTAS	IN	Resonancia
722.93	723.25	722.73
723.52	724.73	723.90
724.88	724.29	724.52
724.50	724.08	724.42
723.70	724.09	723.51
723.48	723.75	723.36
723.51	722.56	723.35
722.16	723.29	723.46
723.33	722.60	723.43
722.10	723.67	722.43
722.99	722.47	723.99
724.40	725.96	724.90
726.14	725.46	722.81
722.52	725.69	722.00
725.42	725.78	724.67
723.77	722.86	723.52
722.81	722.86	722.04
721.59	719.32	719.01
717.09	717.26	716.71
717.20	716.45	717.15
715.98	715.67	715.98
717.04	716.82	715.67
715.34	716.55	715.00
716.27	714.67	715.27
715.99	714.33	715.71
714.01	715.44	713.83
715.16	713.67	714.88
714.60	713.32	714.60
713.00	714.33	712.12
714.05	712.85	713.77

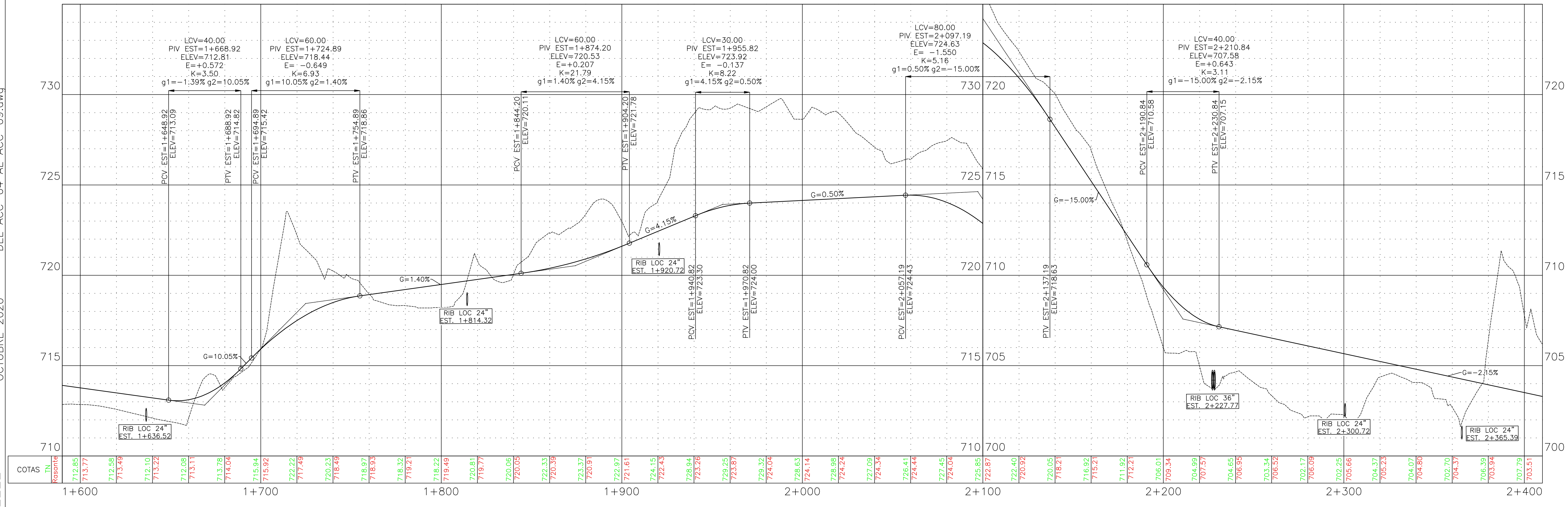


No.	DRENAJE	ESTACIÓN	COORDENADAS UTM X Y	MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	IZQ	DER	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
1	ALCANTARILLA	1+636.52	442311.10 1582665.62	RIB LOC 24"	NORMAL	711.92	711.91	711.90	3	3	6	0.50	D-I	1	1	Acondicionar entrada y salida.
2	ALCANTARILLA	1+814.32	442168.57 1582766.81	RIB LOC 24"	NORMAL	718.37	718.31	718.24	3	3	6	2	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
3	ALCANTARILLA	1+920.72	442120.63 1582858.37	RIB LOC 24"	NORMAL	721.14	721.08	721.02	3	3	6	2	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
4	ALCANTARILLA	2+227.77	441868.28 1583017.03	2XRIB LOC 36"	50°45'36"	703.73	703.64	703.55	6	6	12	1.50	D-I	1	1	Acondicionar entrada y salida.
5	ALCANTARILLA	2+300.72	441826.40 1583076.64	RIB LOC 24"	NORMAL	702.57	702.31	702.05	5	5	10	5.20	D-I	1	1	Acondicionar entrada y salida.
6	ALCANTARILLA	2+365.39	441783.23 1583121.63	RIB LOC 24"	67°55'09"	701.68	700.93	699.88	6	6	12	15.00	D-I	1	1	Acondicionar entrada y salida.

**TABLA DE REFERENCIAS**

EJE DE PROYECTO	
ALCANTARILLA	
CURVA DE NIVEL PRINCIPAL	
CURVA DE NIVEL SECUNDARIA	
LÍNEAS DE CORTE	
LÍNEAS DE RELLENO	
QUEBRADAS Y RÍOS	

**TERRACERIA**  
 VOL. DE CORTE: 11026.78 m<sup>3</sup>  
 VOL. DE RELLENO: 4489.63 m<sup>3</sup>

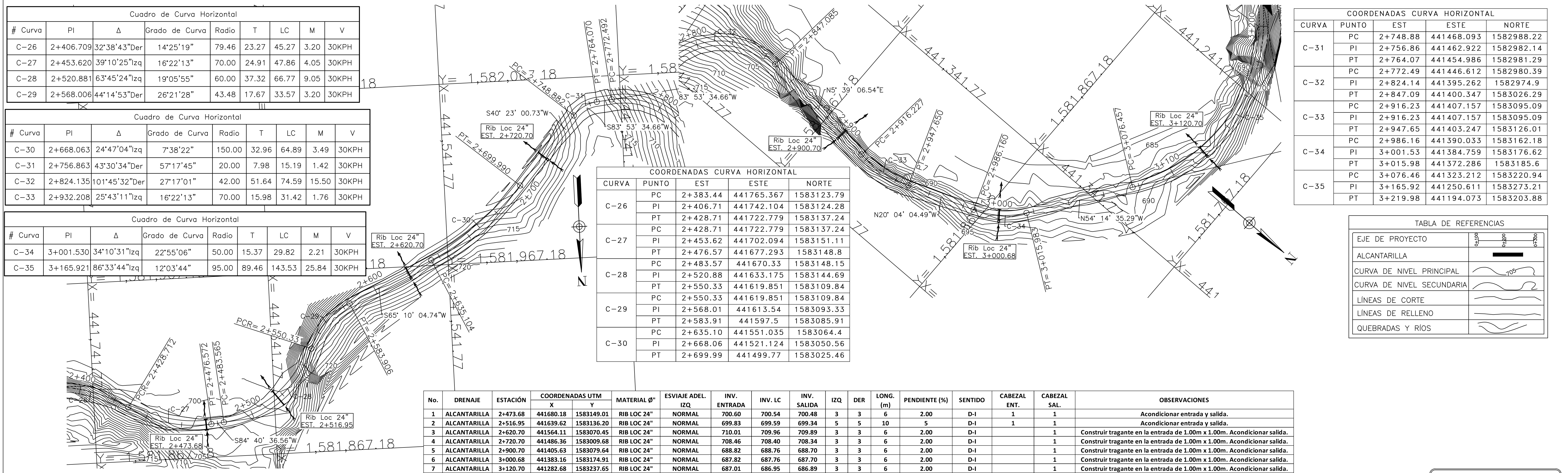


OCTUBRE 2020 DEL ACC-04 AL ACC-09.dwg

# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-26	2+406.709	32°38'43"Der	14°25'19"	79.46	23.27	45.27	3.20	30KPH
C-27	2+453.620	39°10'25"lza	16°22'13"	70.00	24.91	47.86	4.05	30KPH
C-28	2+520.881	63°45'24"lza	19°05'55"	60.00	37.32	66.77	9.05	30KPH
C-29	2+568.006	44°14'53"Der	26°21'28"	43.48	17.67	33.57	3.20	30KPH

# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-30	2+668.063	24°47'04"lza	7°38'22"	150.00	32.96	64.89	3.49	30KPH
C-31	2+756.863	43°30'34"Der	57°17'45"	20.00	7.98	15.19	1.42	30KPH
C-32	2+824.135	101°45'32"Der	27°17'01"	42.00	51.64	74.59	15.50	30KPH
C-33	2+932.208	25°43'11"lza	16°22'13"	70.00	15.98	31.42	1.76	30KPH

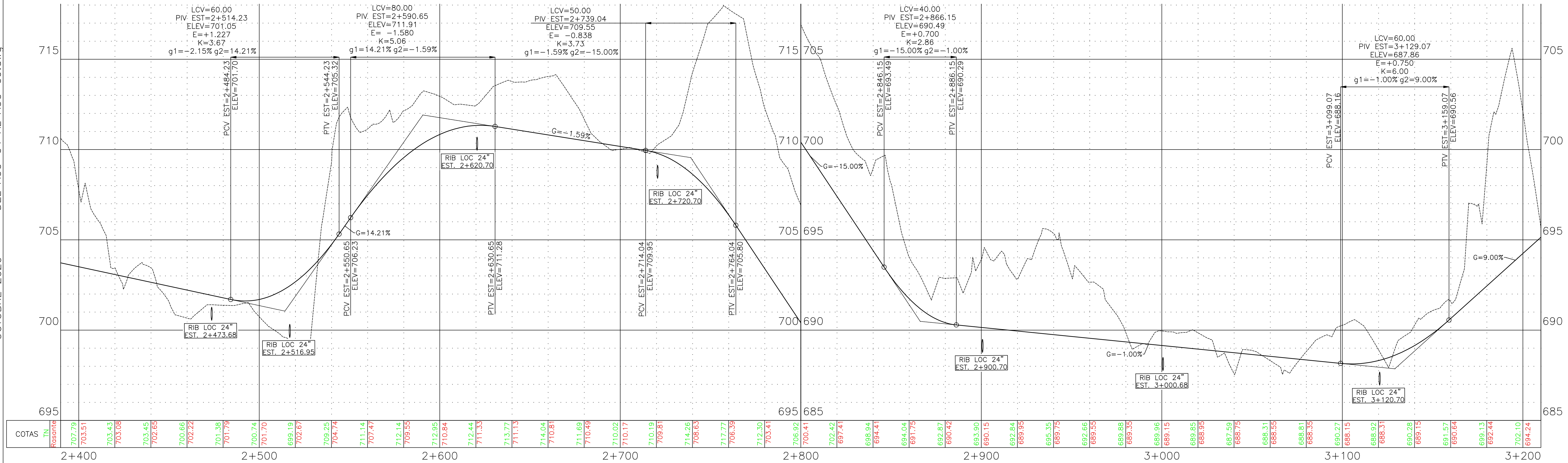
# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-34	3+001.530	34°10'31"lza	22°55'06"	50.00	15.37	29.82	2.21	30KPH
C-35	3+165.921	86°33'44"lza	12°03'44"	95.00	89.46	143.53	25.84	30KPH



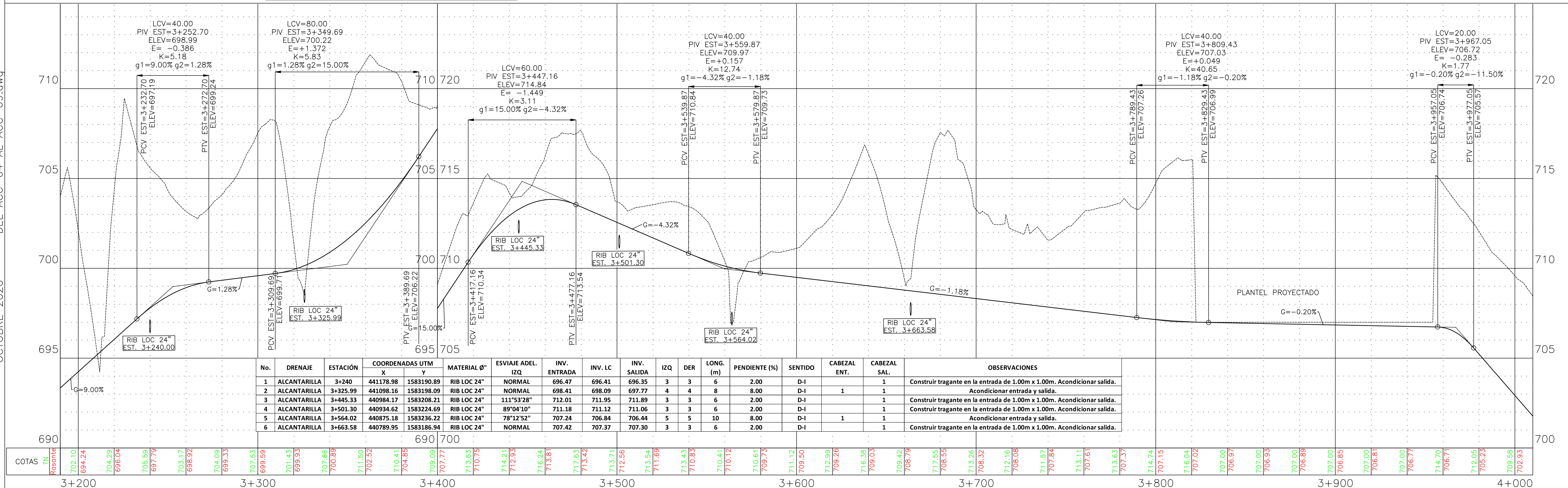
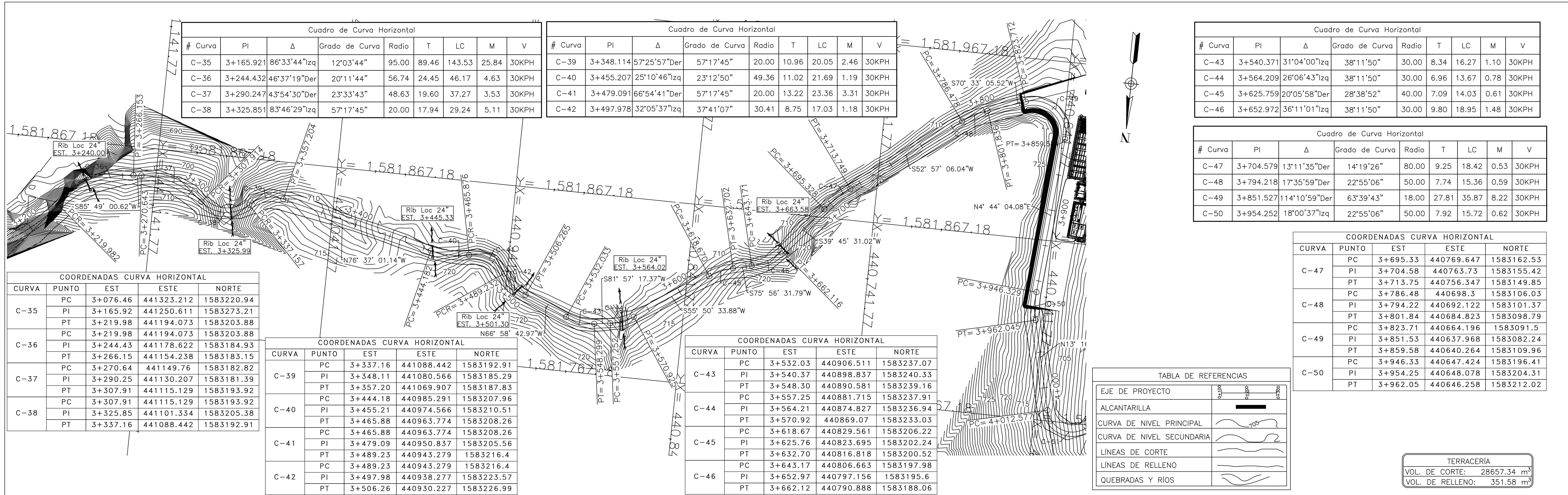
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM X	Y	MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	IZQ	DER	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
1	ALCANTARILLA	2+473.68	441680.18	1583149.01	RIB LOC 24"	NORMAL	700.60	700.54	700.48	3	3	6	2.00	D-I	1	1	Acondicionar entrada y salida.
2	ALCANTARILLA	2+516.95	441639.62	1583136.20	RIB LOC 24"	NORMAL	699.83	699.59	699.34	5	10	5	5	D-I	1	1	Acondicionar entrada y salida.
3	ALCANTARILLA	2+620.70	441564.11	1583070.45	RIB LOC 24"	NORMAL	710.01	709.96	709.89	3	3	6	2.00	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
4	ALCANTARILLA	2+720.70	441486.36	1583009.68	RIB LOC 24"	NORMAL	708.46	708.40	708.34	3	3	6	2.00	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
5	ALCANTARILLA	2+900.70	441405.63	1583079.64	RIB LOC 24"	NORMAL	688.82	688.76	688.70	3	3	6	2.00	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
6	ALCANTARILLA	3+000.68	441383.16	1583174.91	RIB LOC 24"	NORMAL	687.82	687.76	687.70	3	3	6	2.00	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.
7	ALCANTARILLA	3+120.70	441282.68	1583237.65	RIB LOC 24"	NORMAL	687.01	686.95	686.89	3	3	6	2.00	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

VOL. DE CORTE:	20266.01 m³
VOL. DE RELLENO:	1372.69 m³

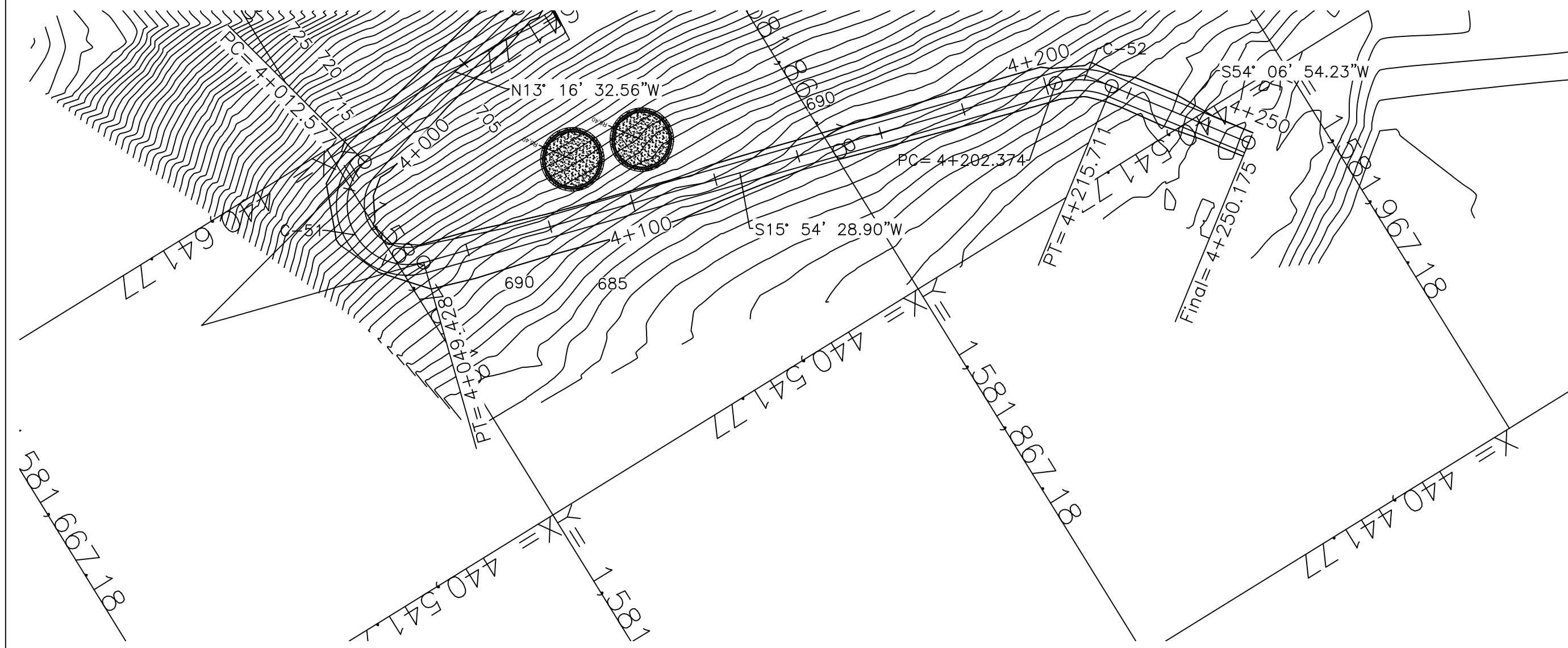
OCTUBRE 2020 DEL ACC-04 AL ACC-09.dwg







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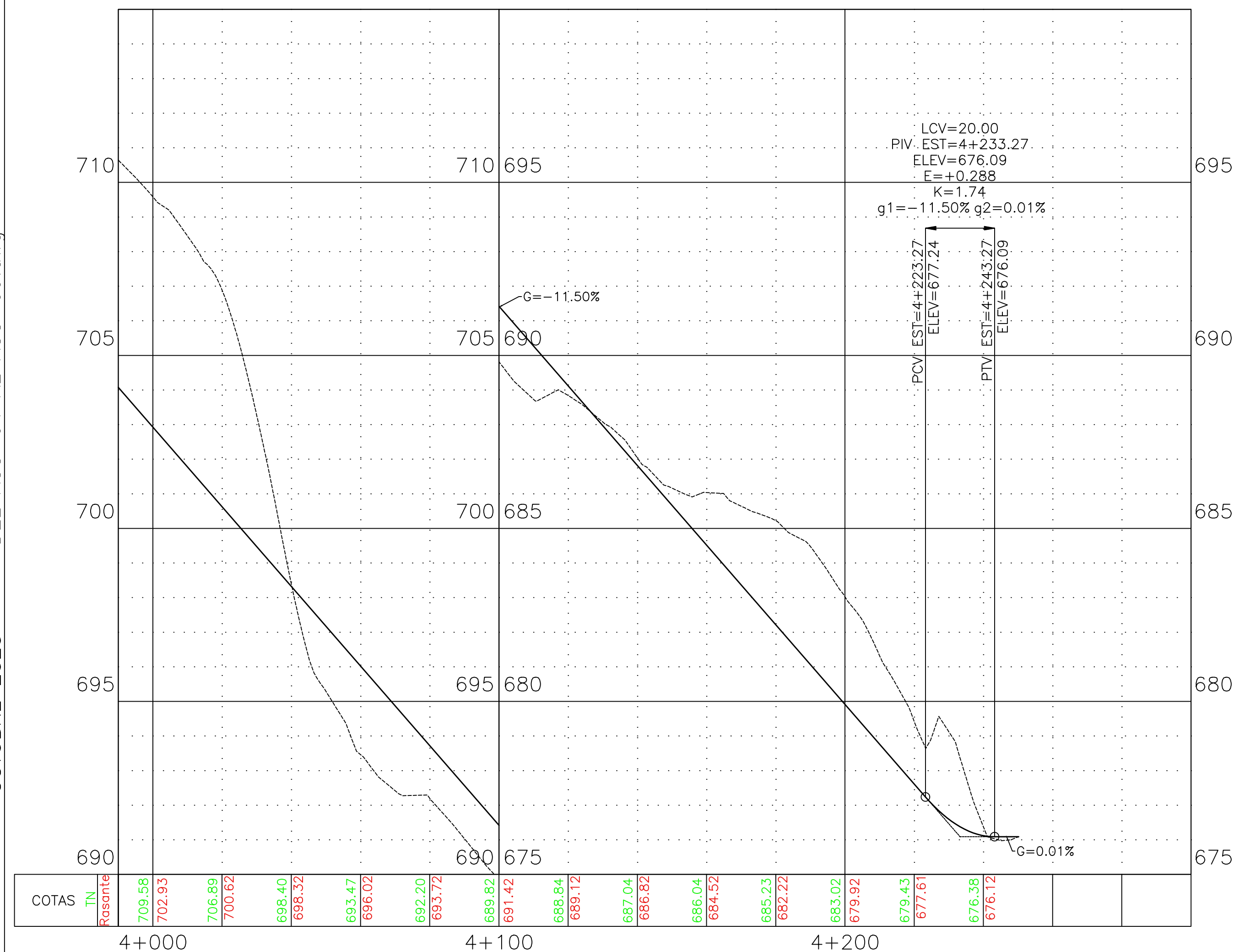
# Curva	PI	Δ	Grado de Curva	Radio	T	LC	M	V
C-51	4+066.355	150°48'59"lq	81°51'04"	14.00	53.78	36.85	10.47	30KPH
C-52	4+209.301	38°12'25"Der	57°17'45"	20.00	6.93	13.34	1.10	30KPH

CURVA	PUNTO	EST	ESTE	NORTE
C-51	PC	4+012.58	440634.654	1583261.2
	PI	4+066.36	440622.305	1583313.54
	PT	4+049.43	440607.564	1583261.82
C-52	PC	4+202.37	440565.643	1583114.74
	PI	4+209.30	440563.744	1583108.07
	PT	4+215.71	440558.132	1583104.01

EJE DE PROYECTO	0+000	PT+000
ALCANTARILLA	[Symbol]	
CURVA DE NIVEL PRINCIPAL	[Symbol]	
CURVA DE NIVEL SECUNDARIA	[Symbol]	
LÍNEAS DE CORTE	[Symbol]	
LÍNEAS DE RELLENO	[Symbol]	
QUEBRADAS Y RÍOS	[Symbol]	

TERRACERIA	
VOL. DE CORTE:	3534.93 m <sup>3</sup>
VOL. DE RELLENO:	1089.79 m <sup>3</sup>

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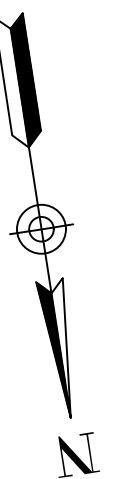
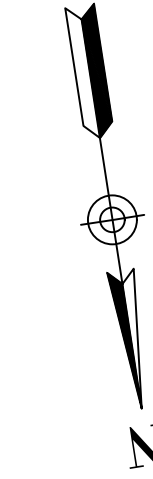


COTAS	4+000	4+100	4+200
TN	709.58	691.42	679.92
Rosante	702.93	688.84	677.61
	706.89	687.04	676.38
	700.62	685.23	676.12
	698.40	683.42	
	696.32	681.61	
	694.47	679.80	
	692.02	678.00	
	692.20	676.19	
	693.72	674.38	
	689.82	672.57	
	691.42	670.76	
	688.84	668.95	
	689.12	667.14	
	687.04	665.33	
	686.82	663.52	
	686.04	661.71	
	684.52	660.00	
	685.23	658.19	
	682.22	656.38	
	683.02	654.57	
	679.92	652.76	
	679.43	650.95	
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	676.38	647.33	
	676.12	645.52	



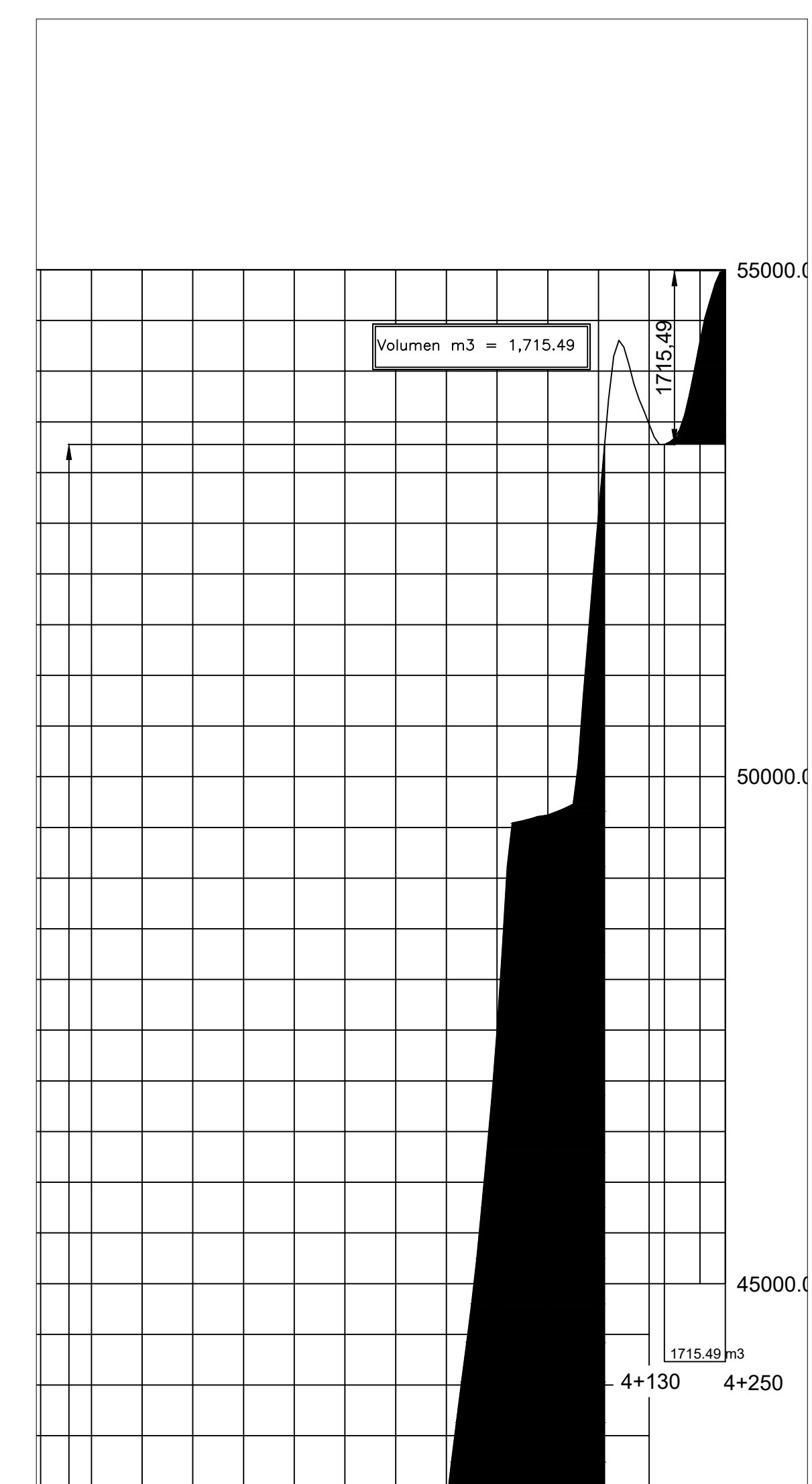
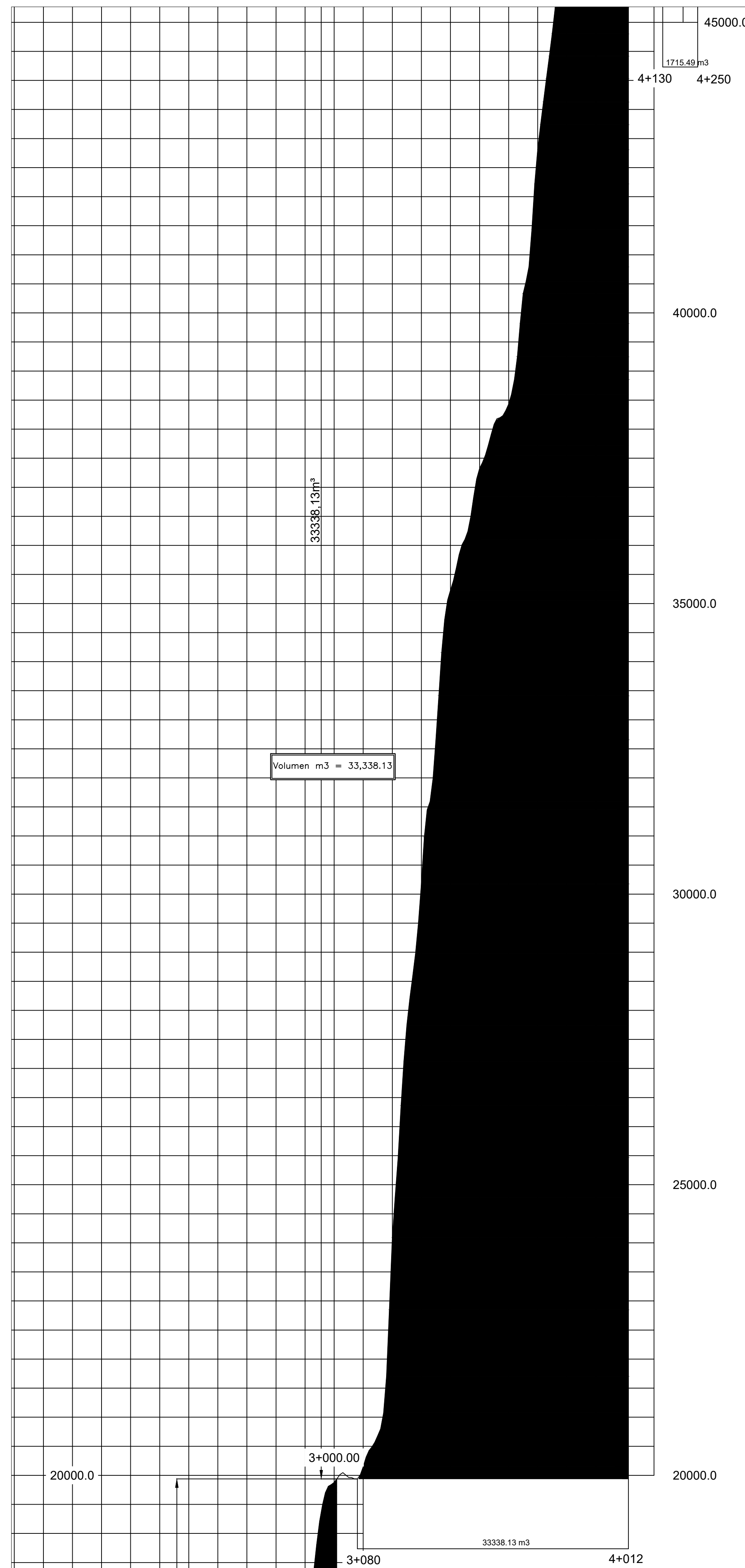
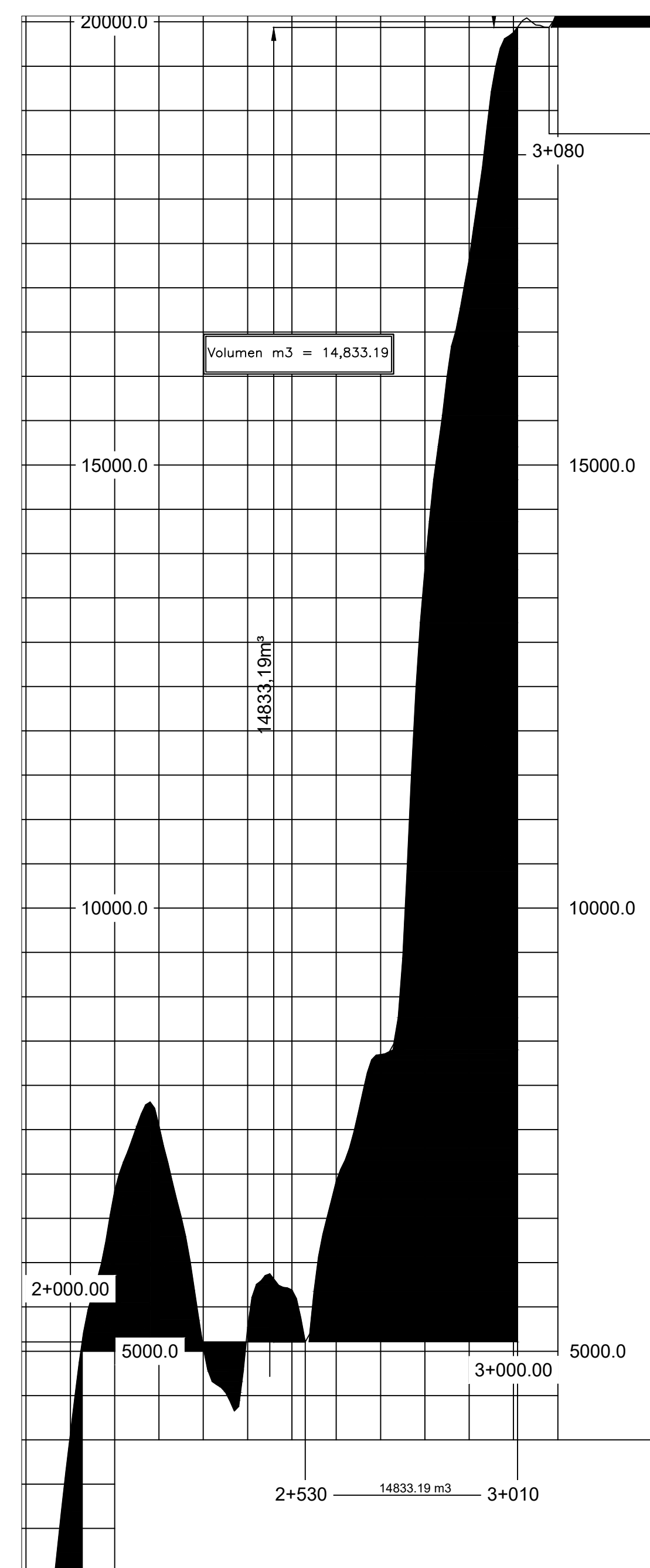
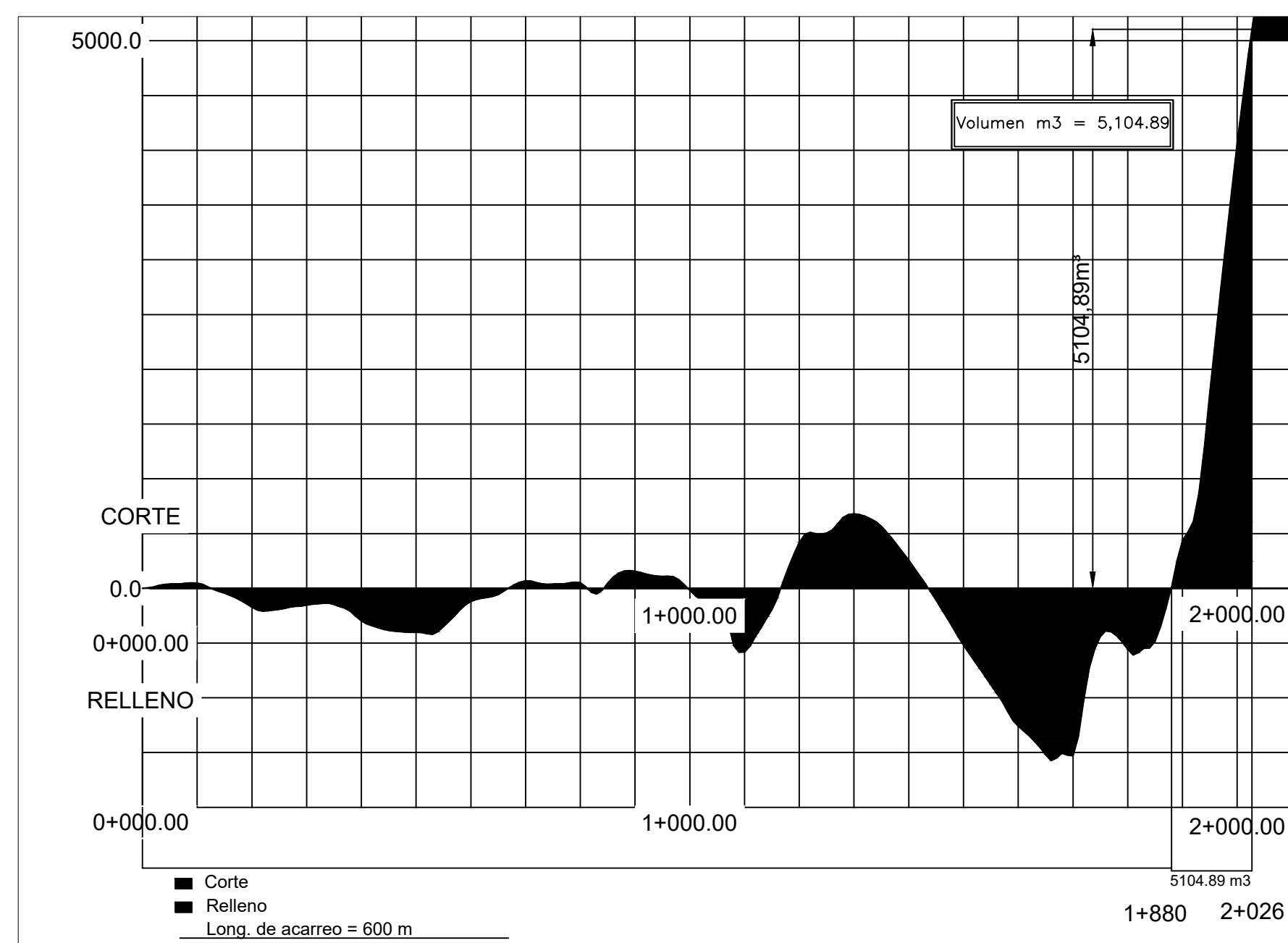
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Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUEL CONDE CUEVAS	CICH 4028

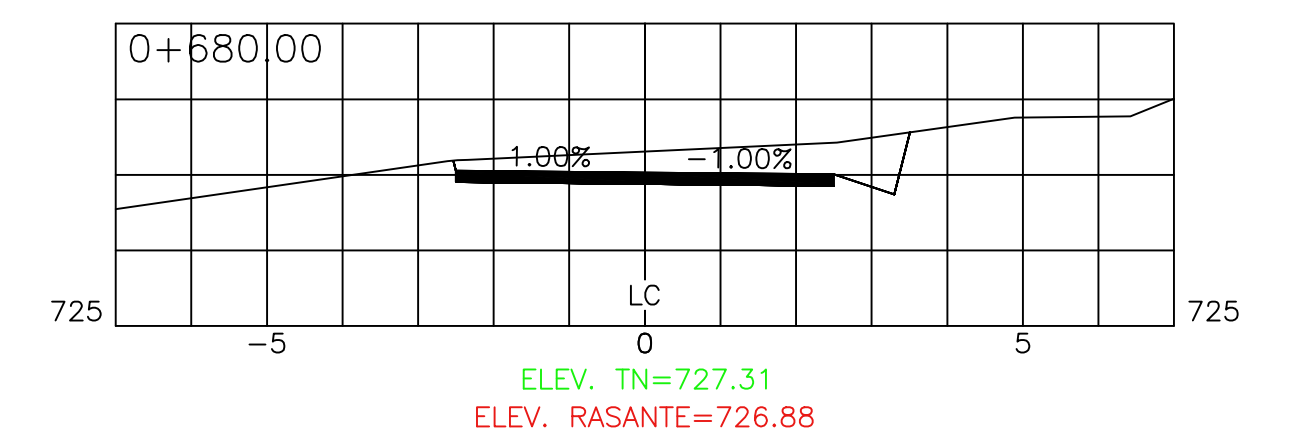
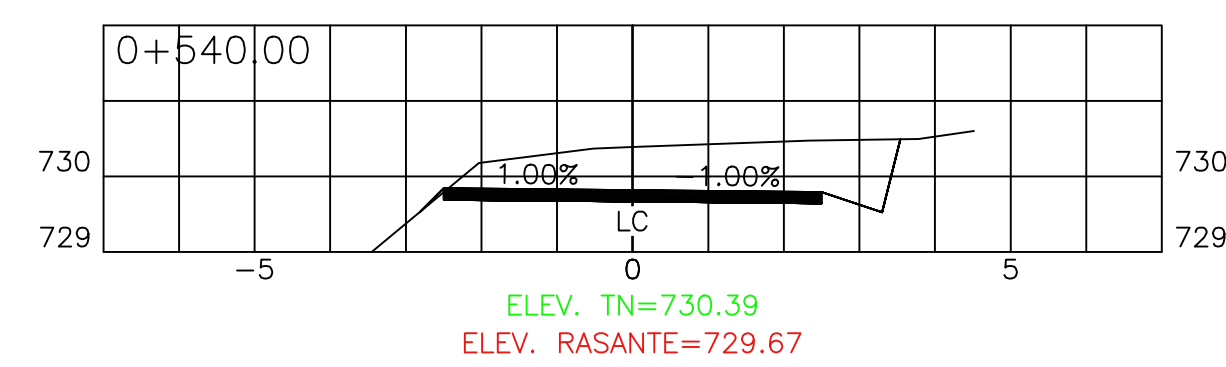
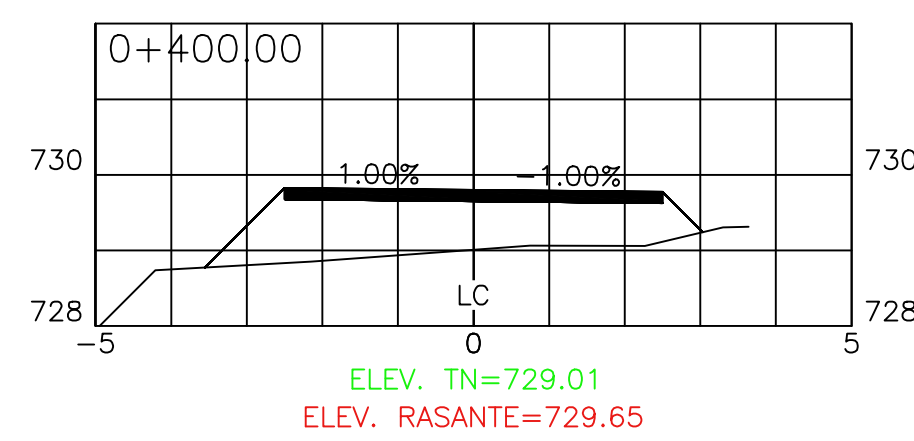
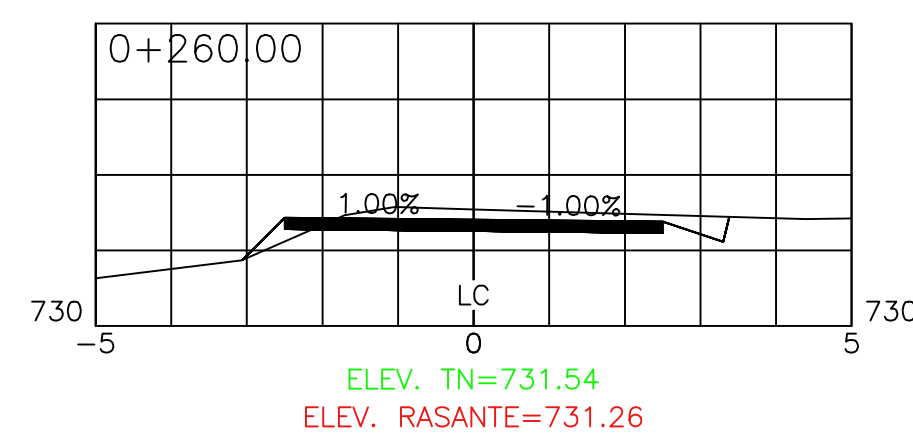
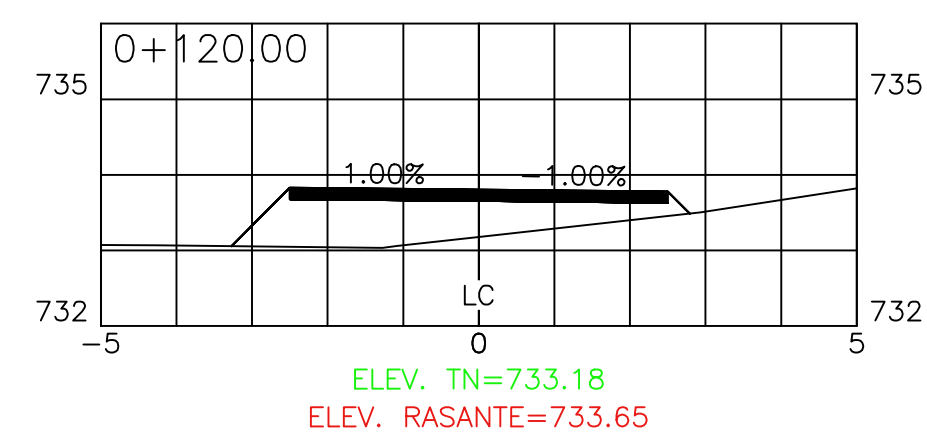
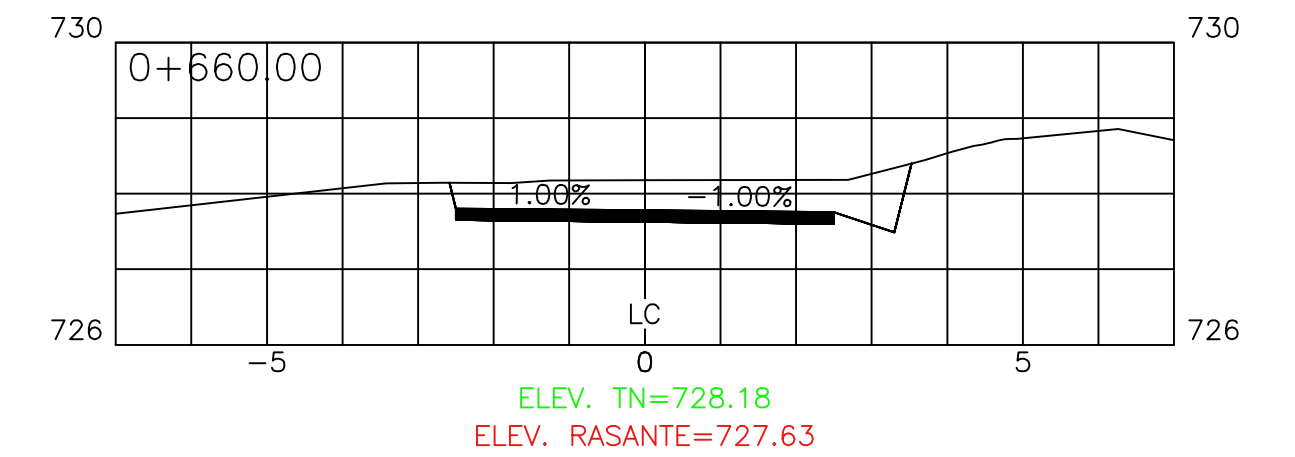
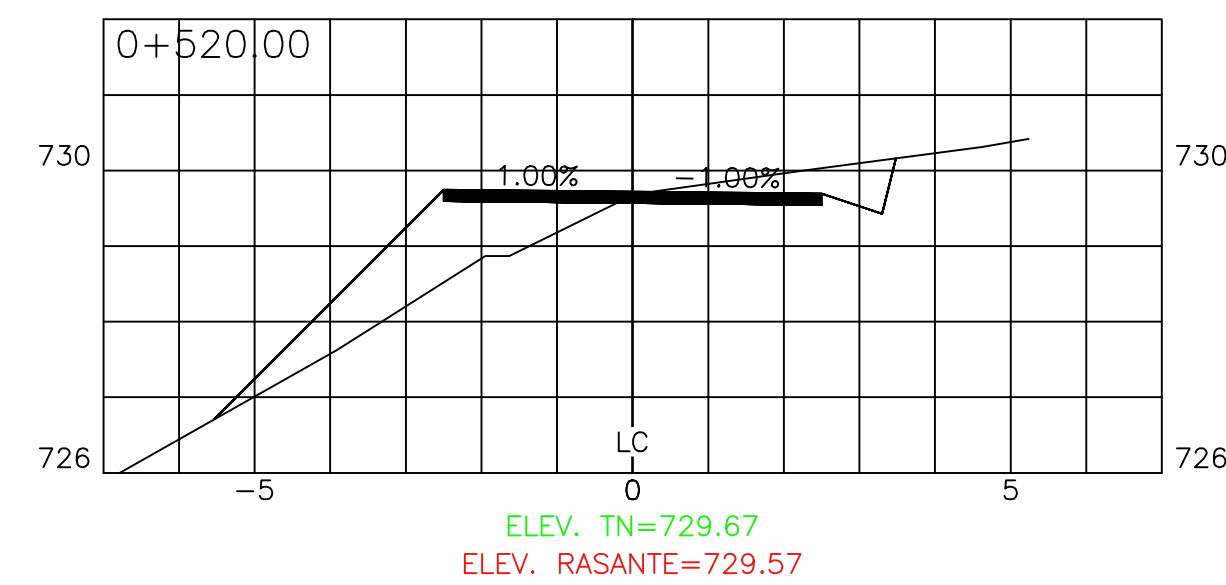
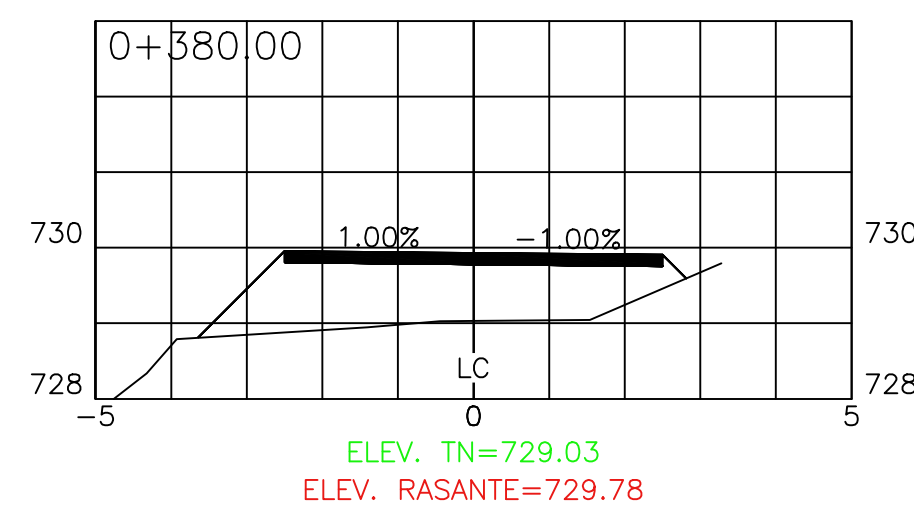
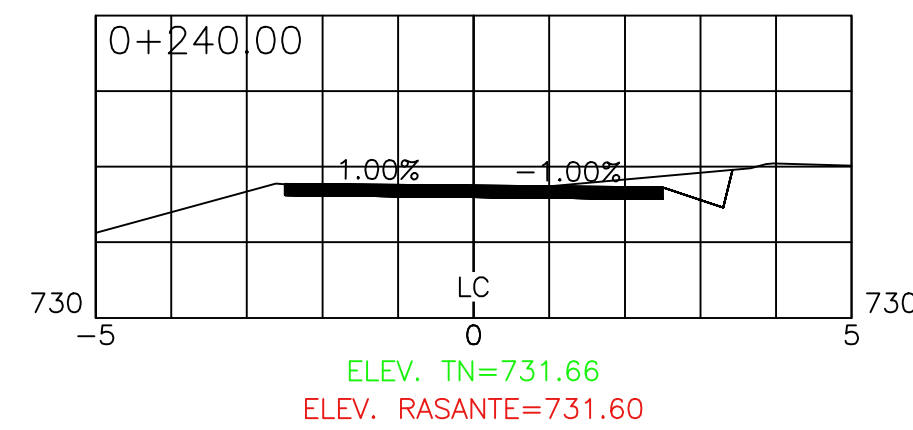
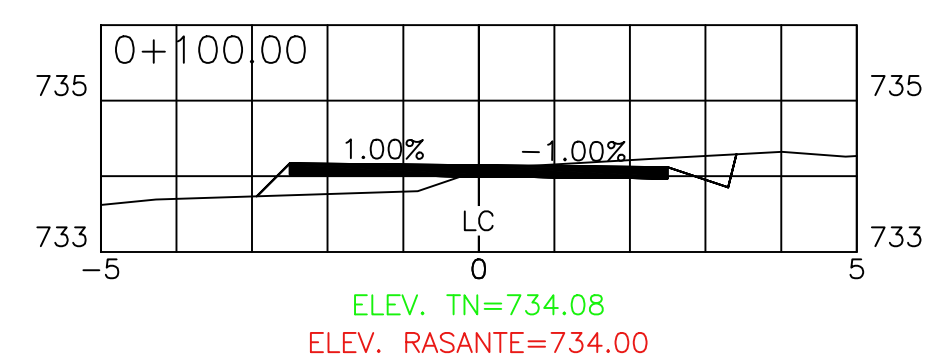
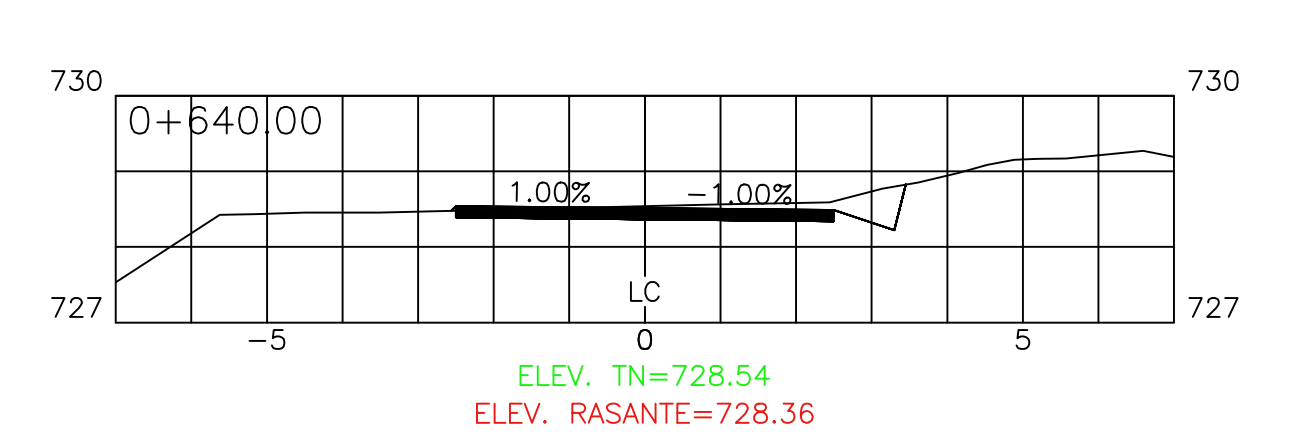
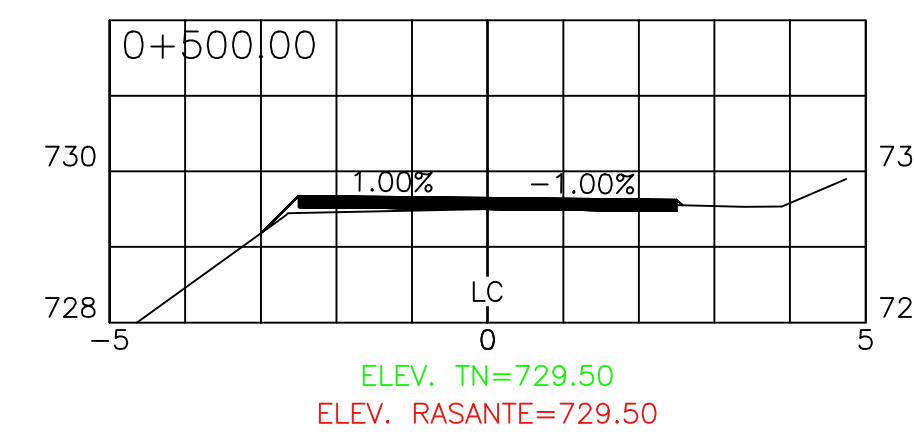
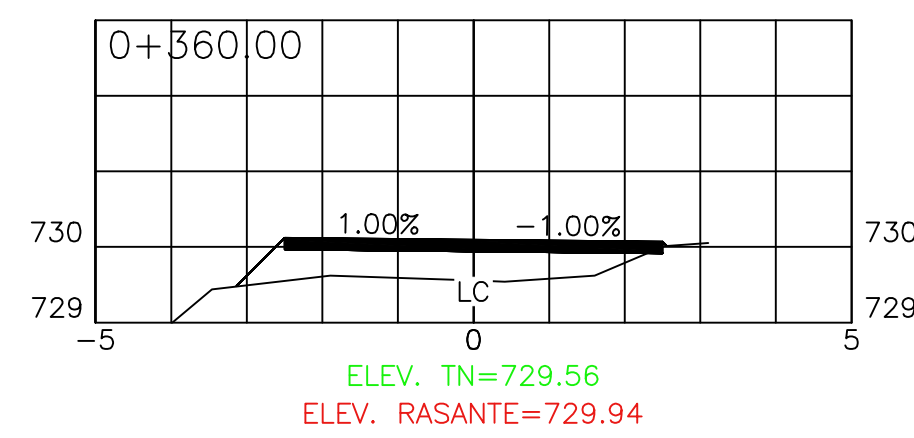
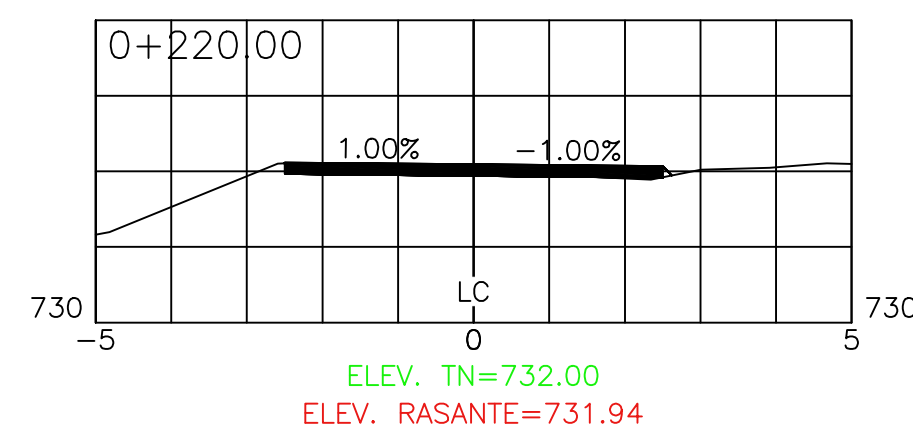
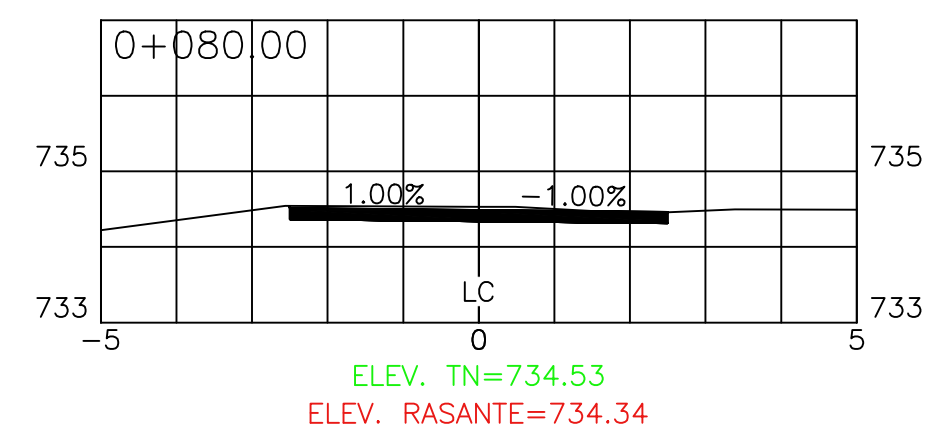
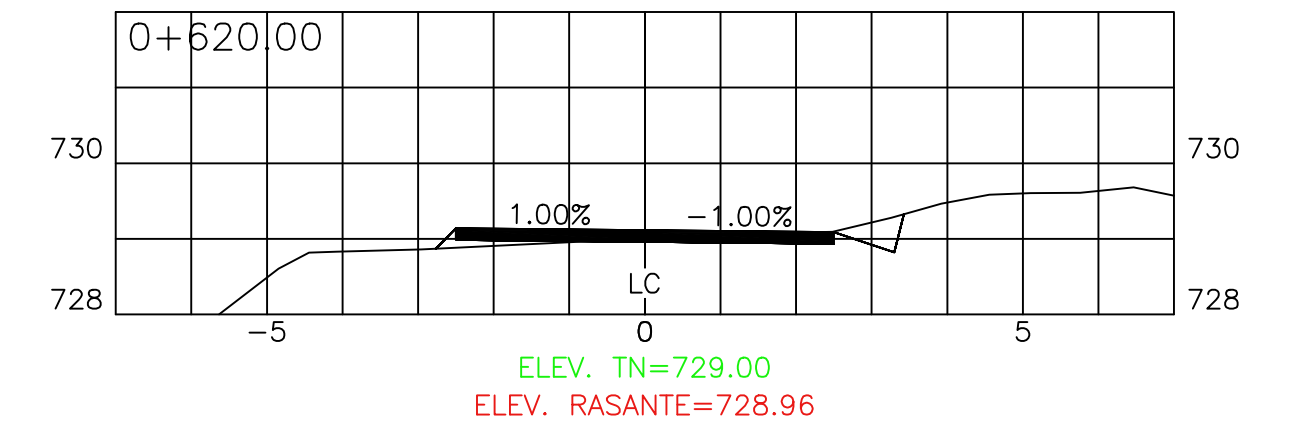
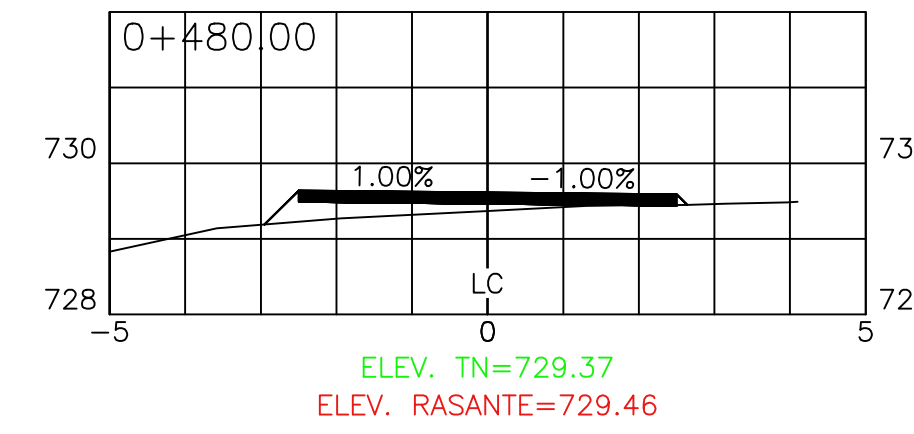
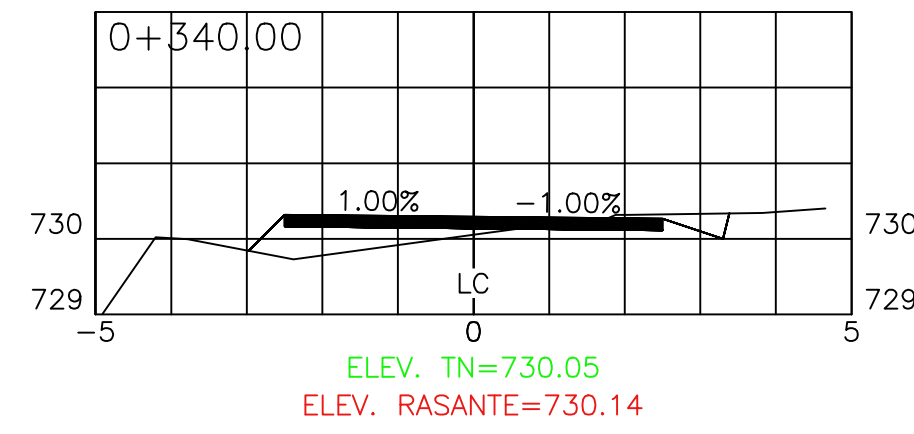
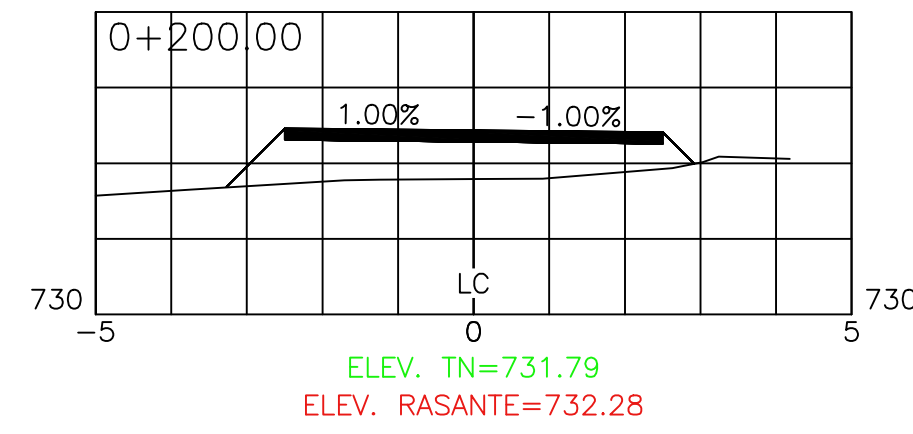
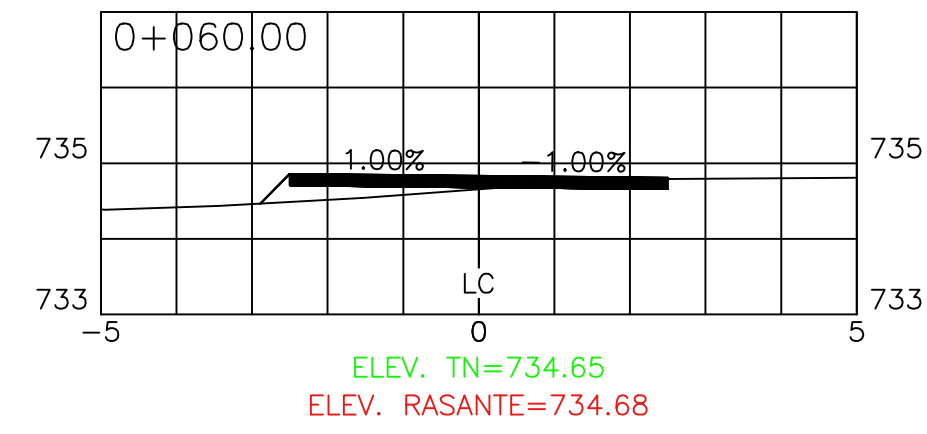
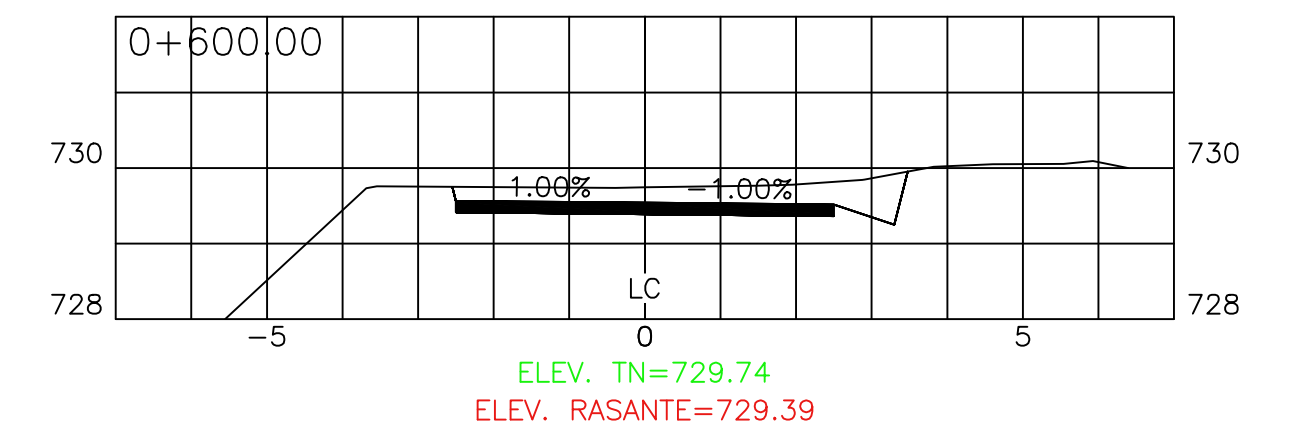
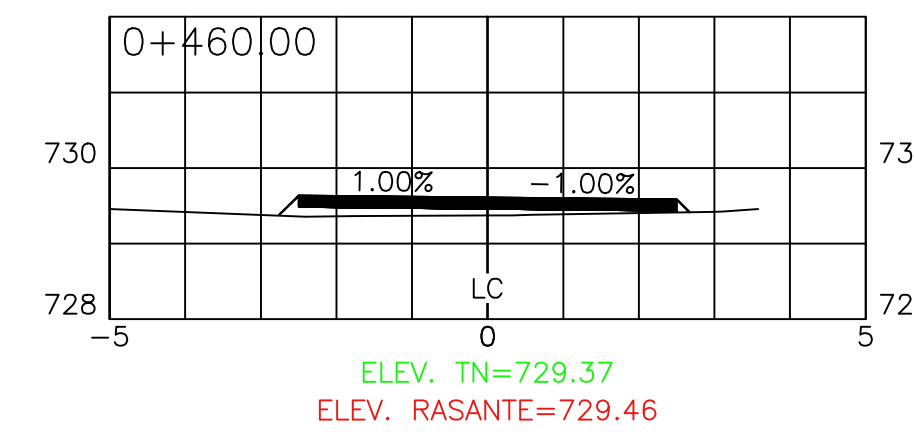
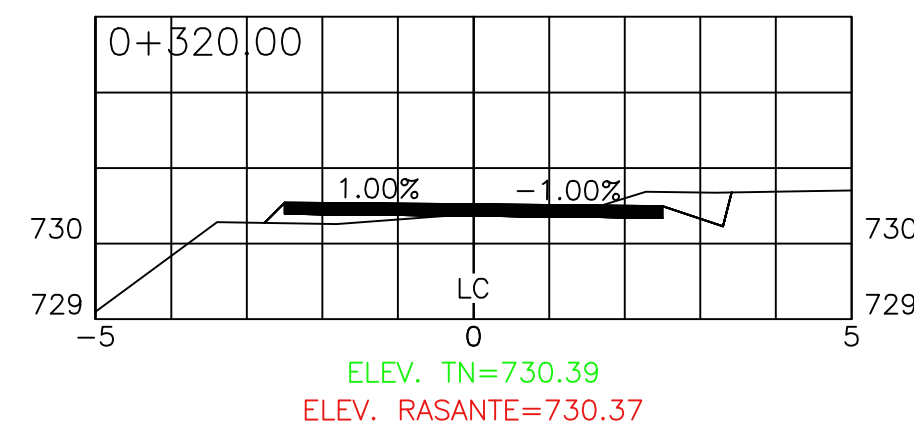
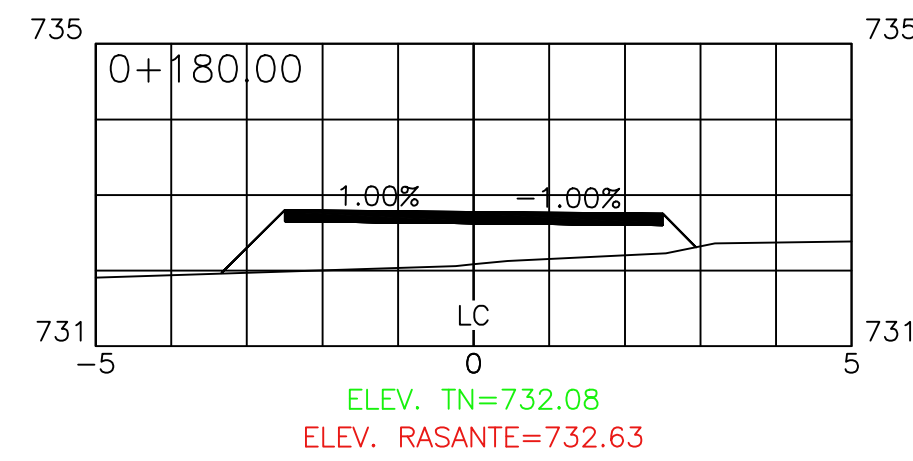
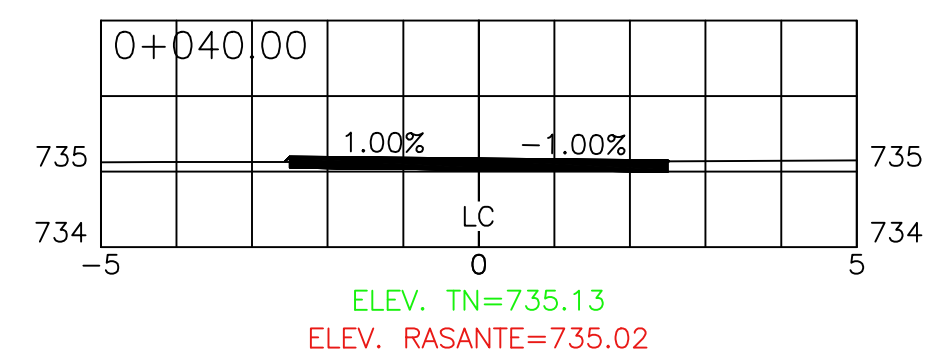
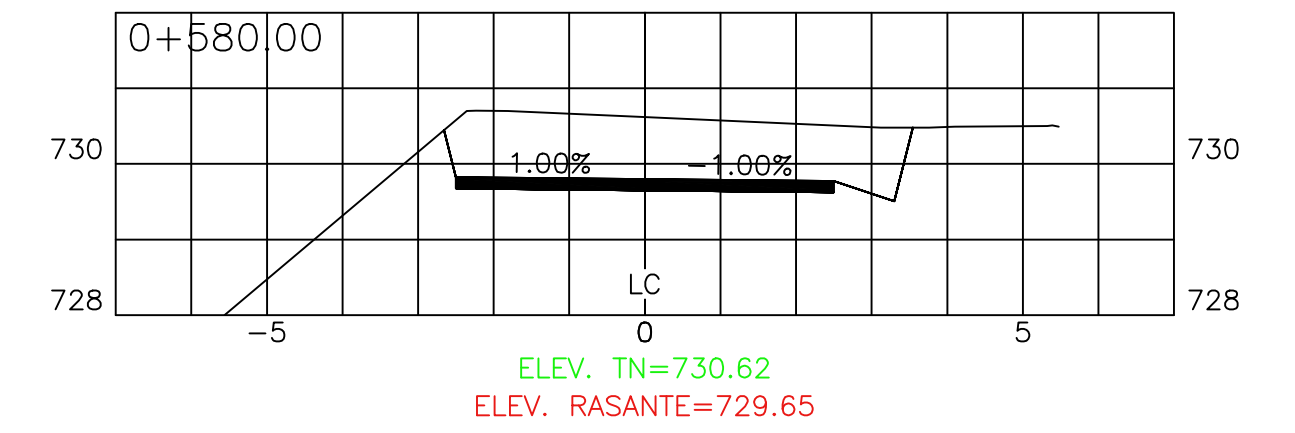
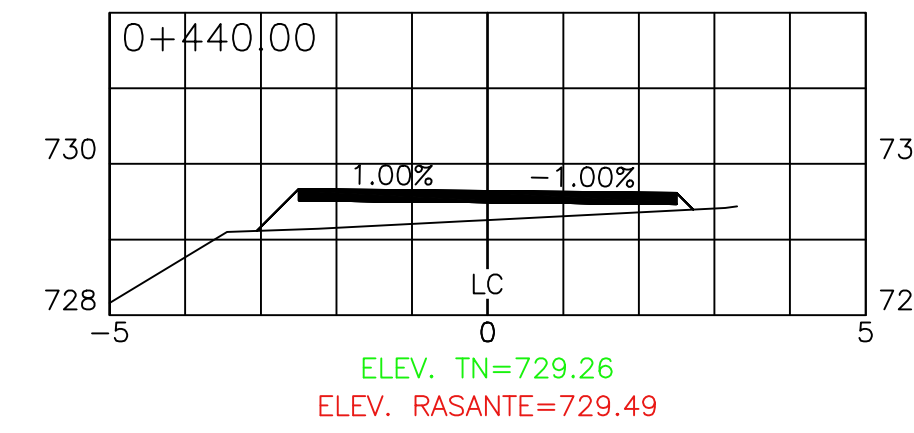
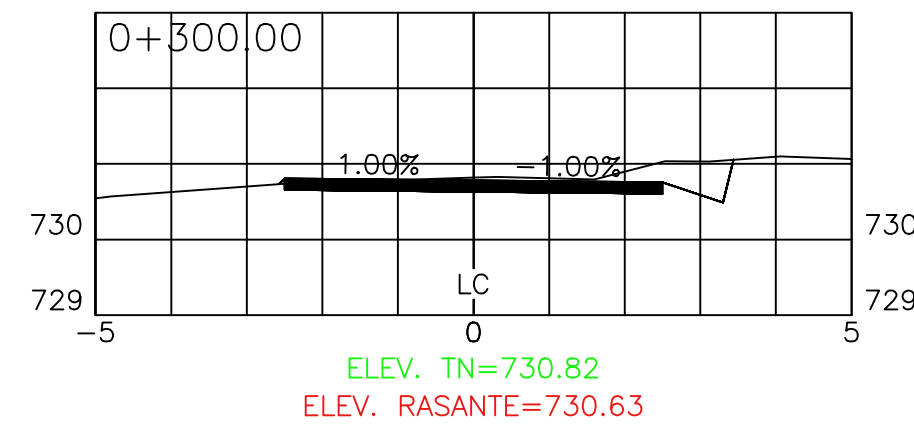
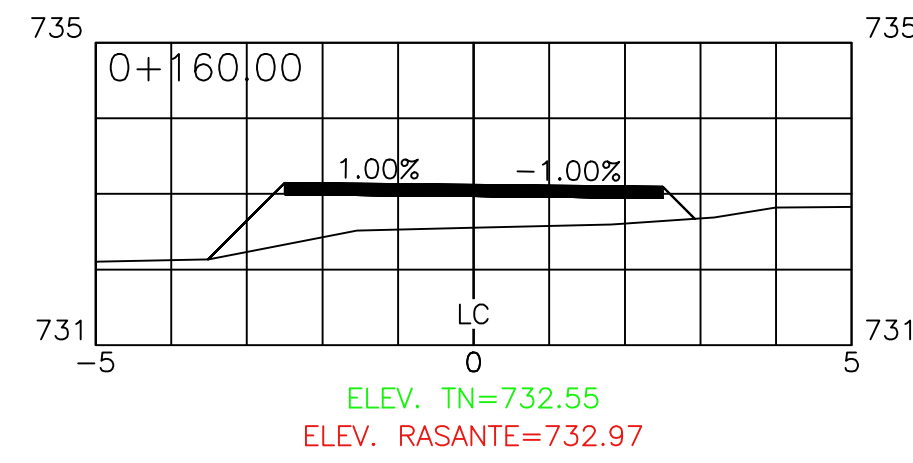
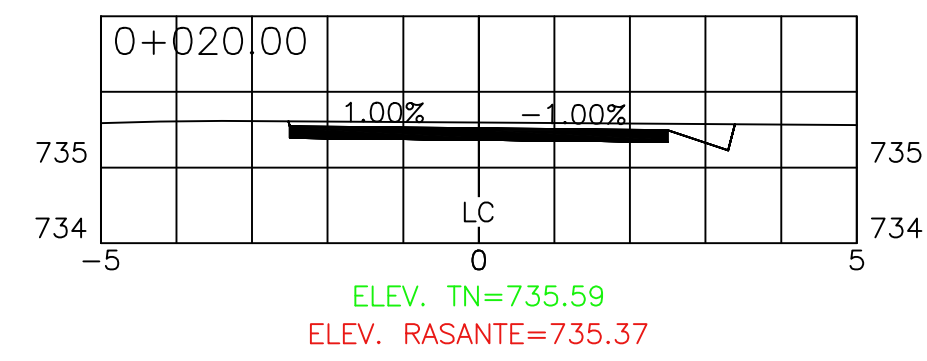
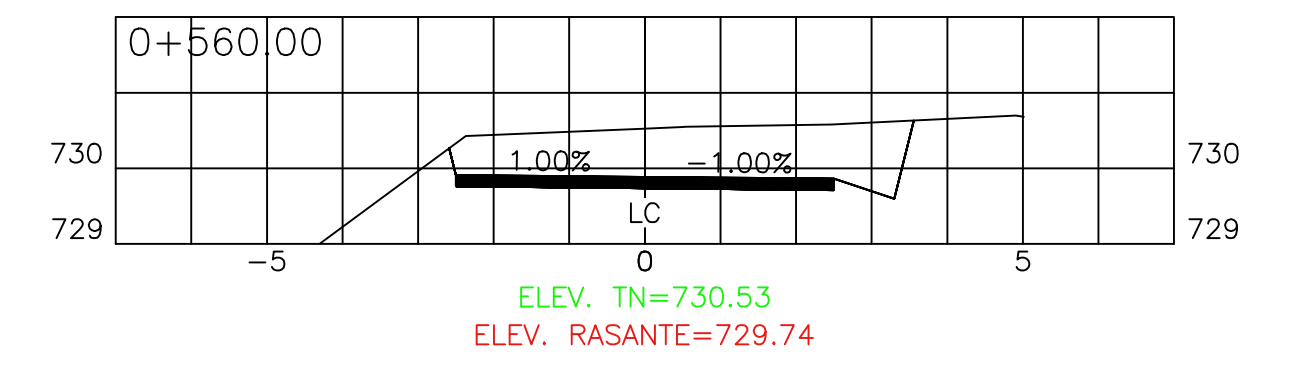
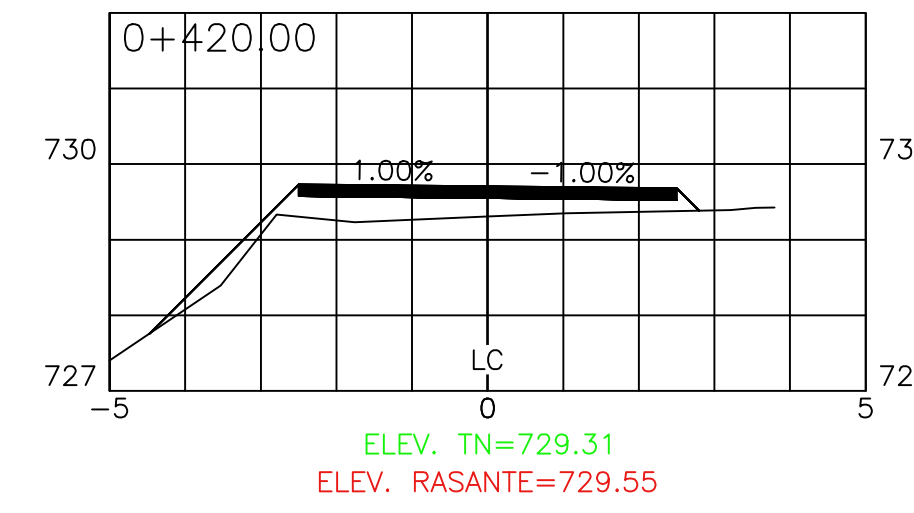
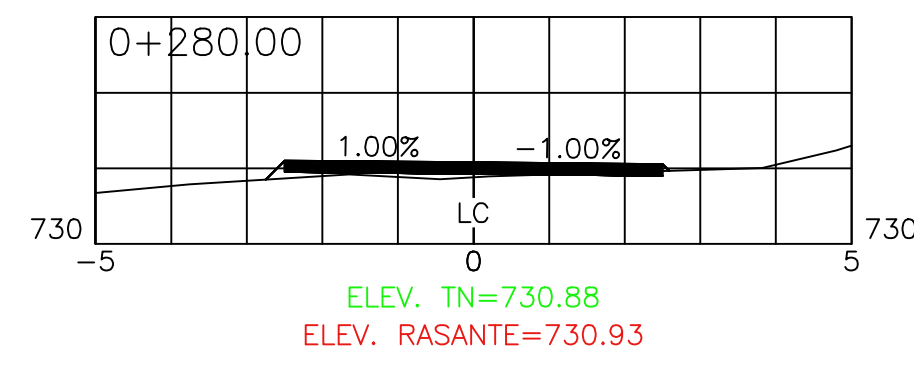
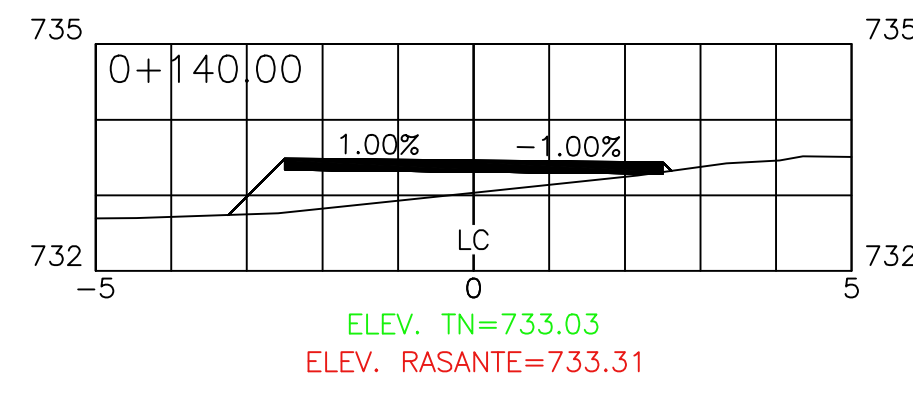
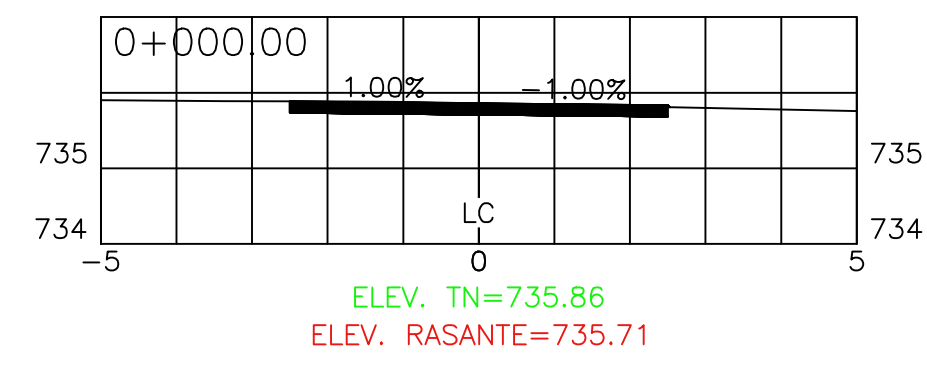


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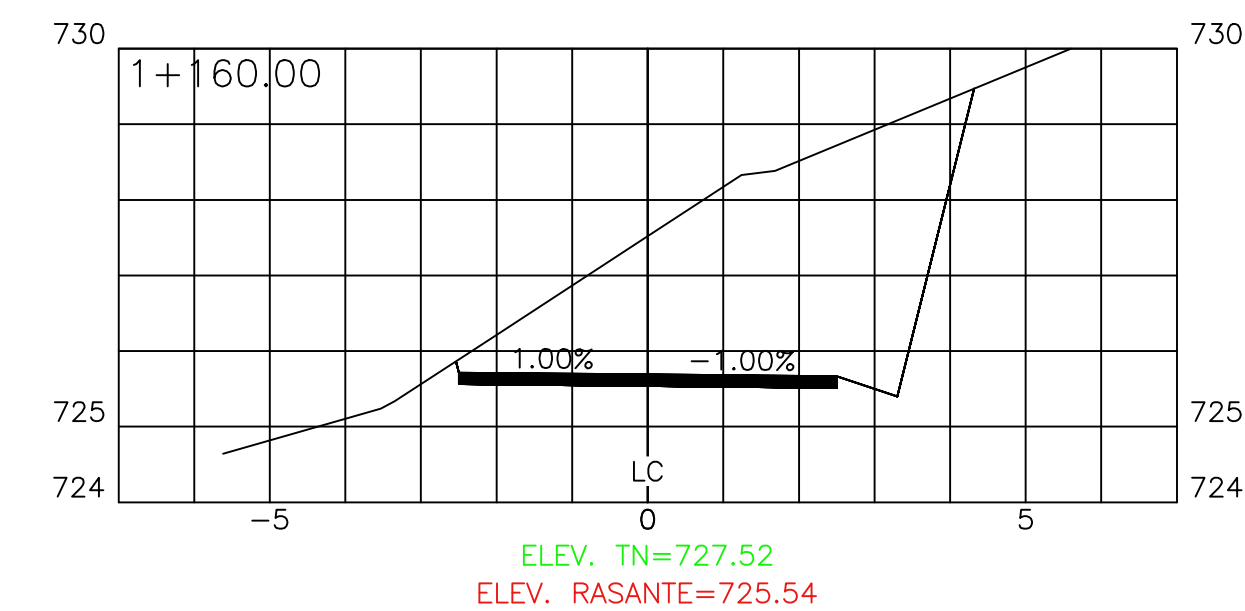
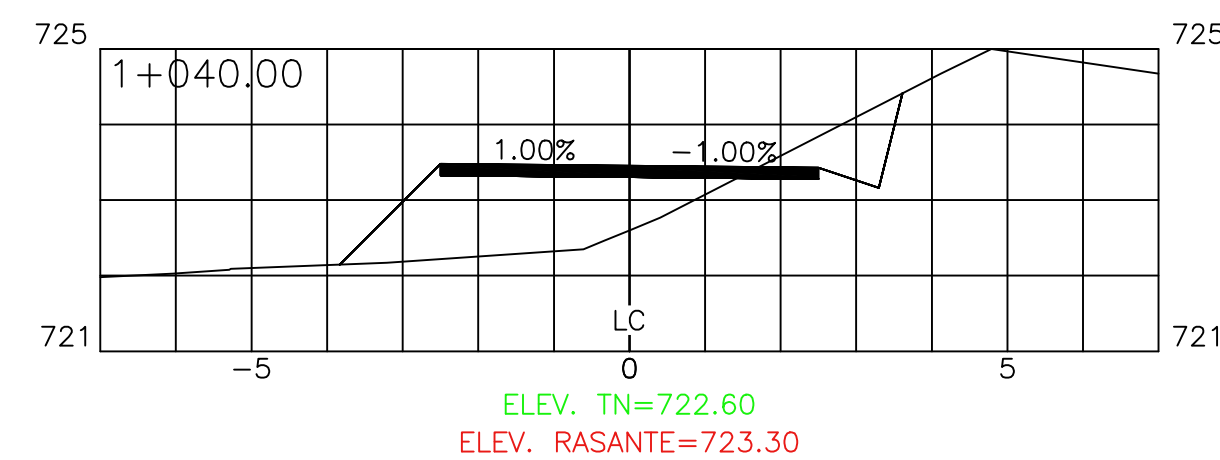
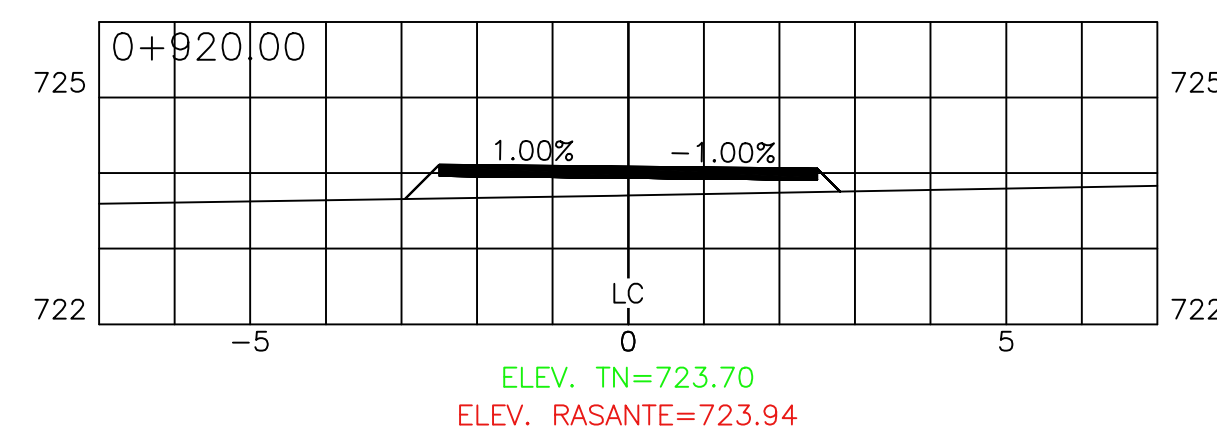
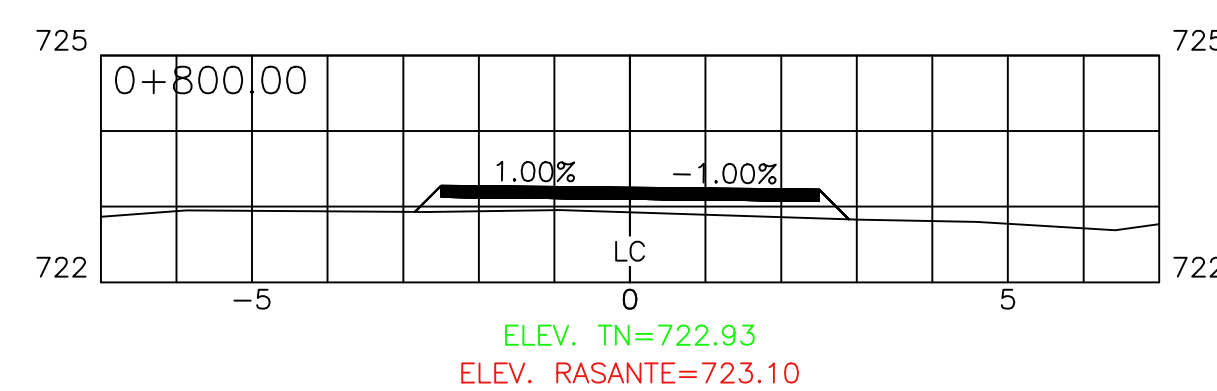
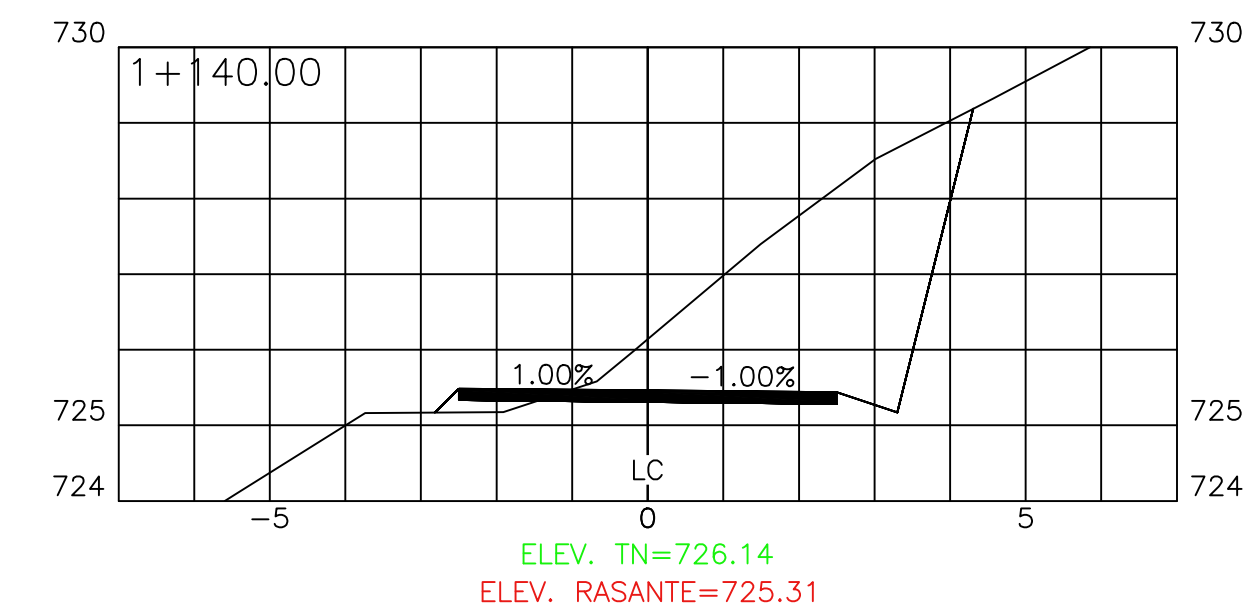
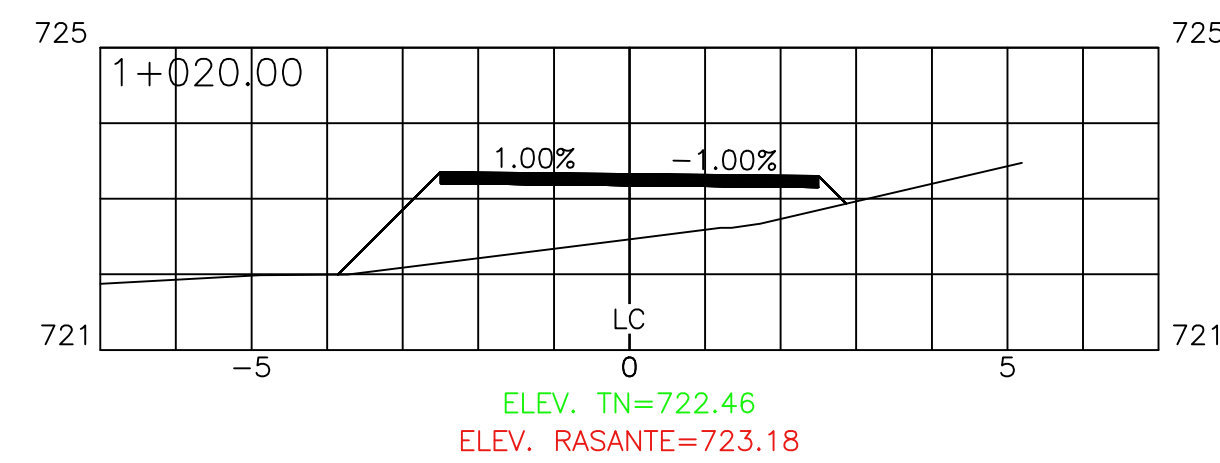
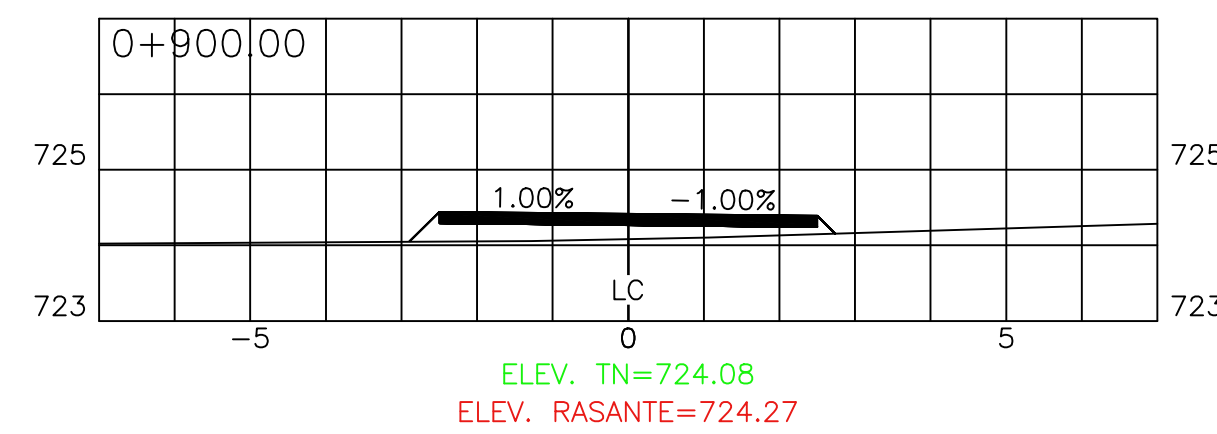
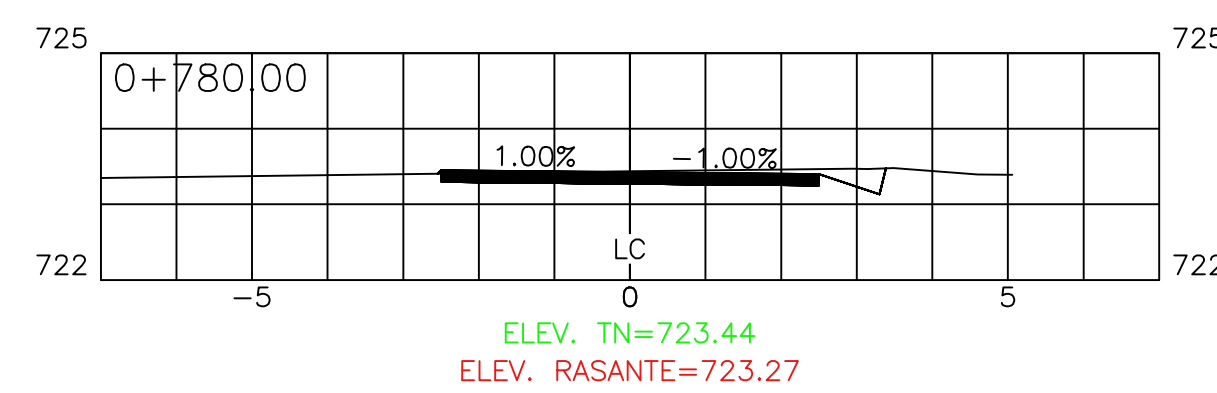
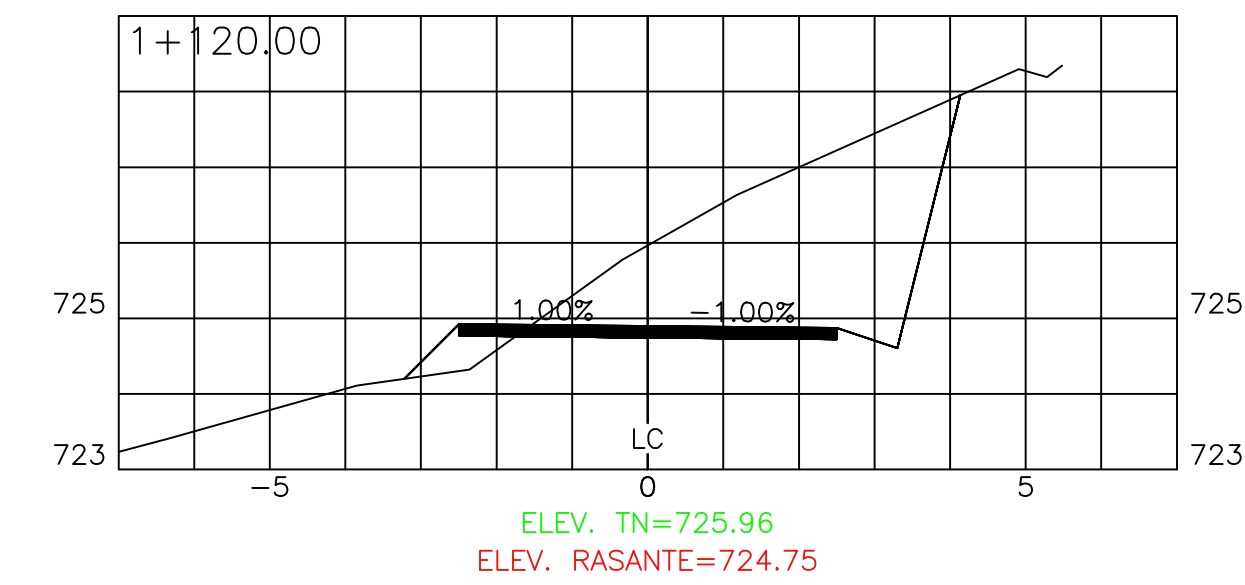
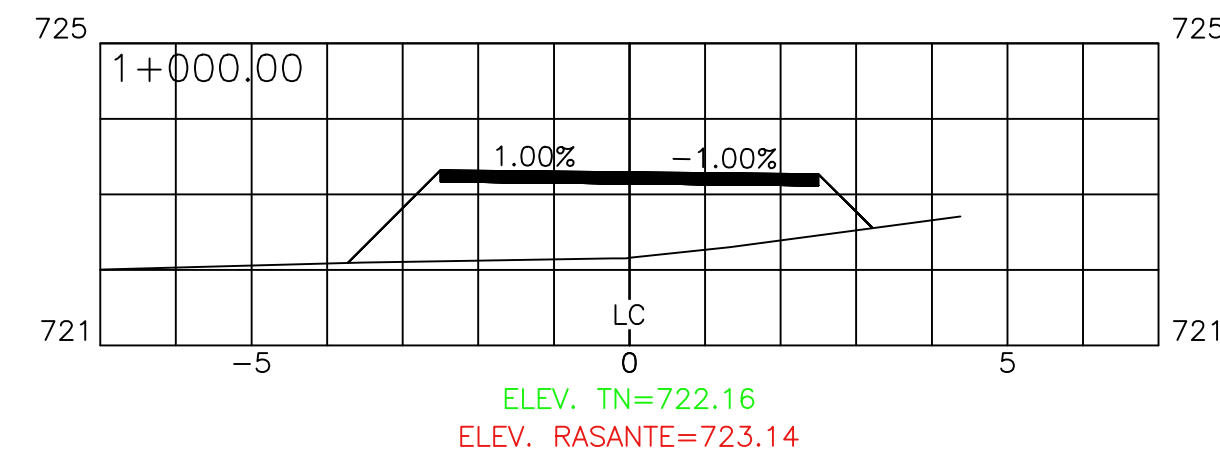
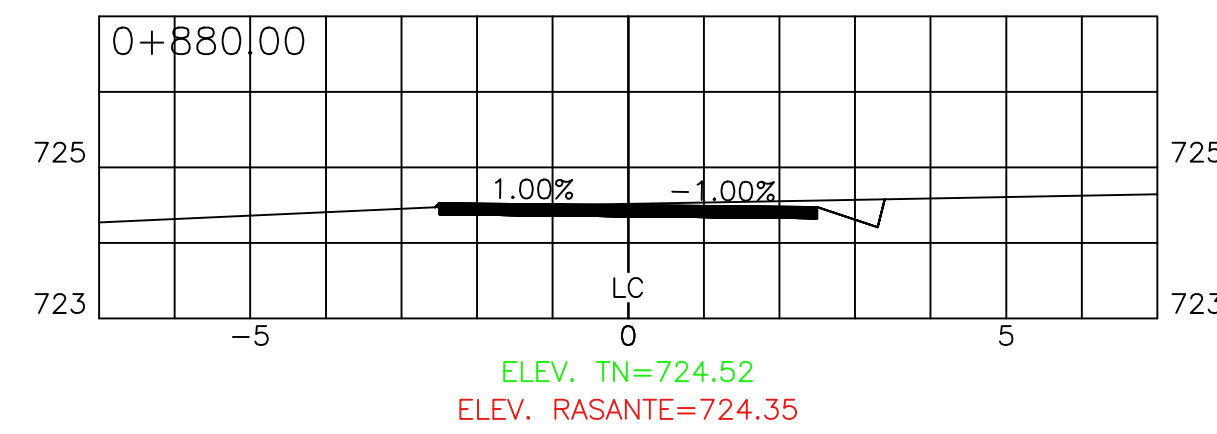
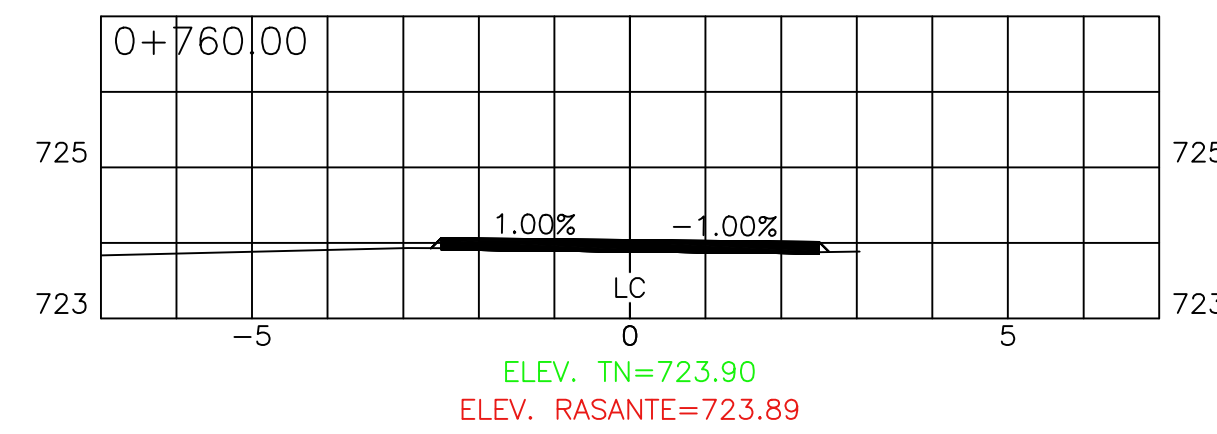
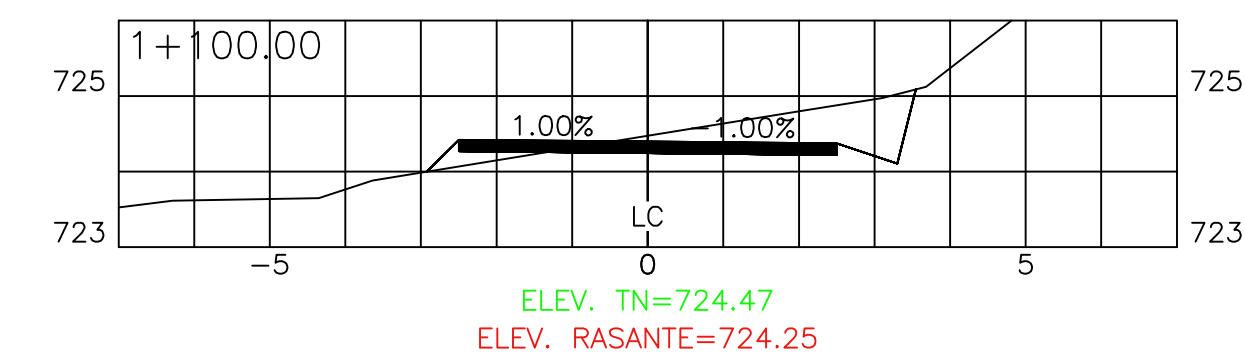
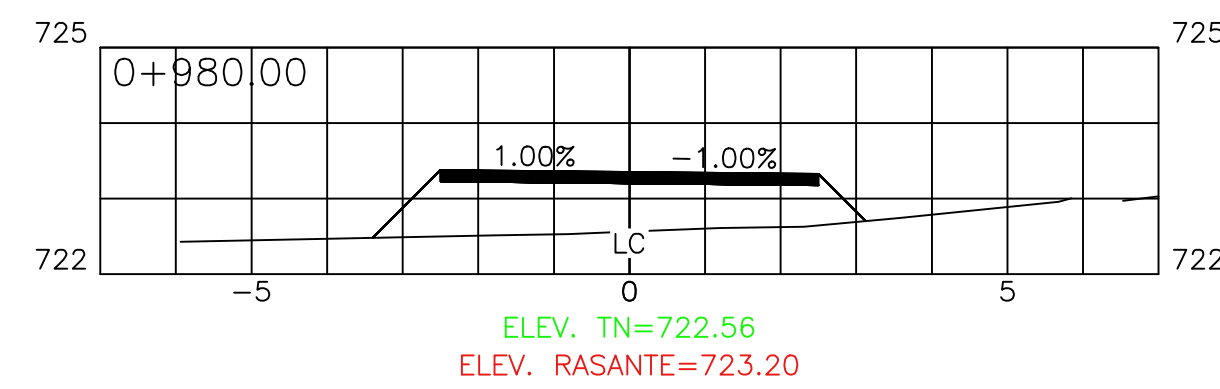
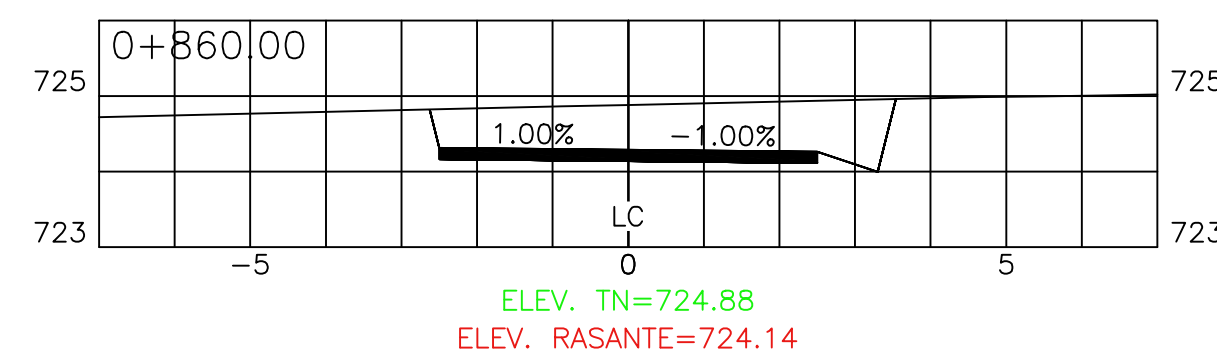
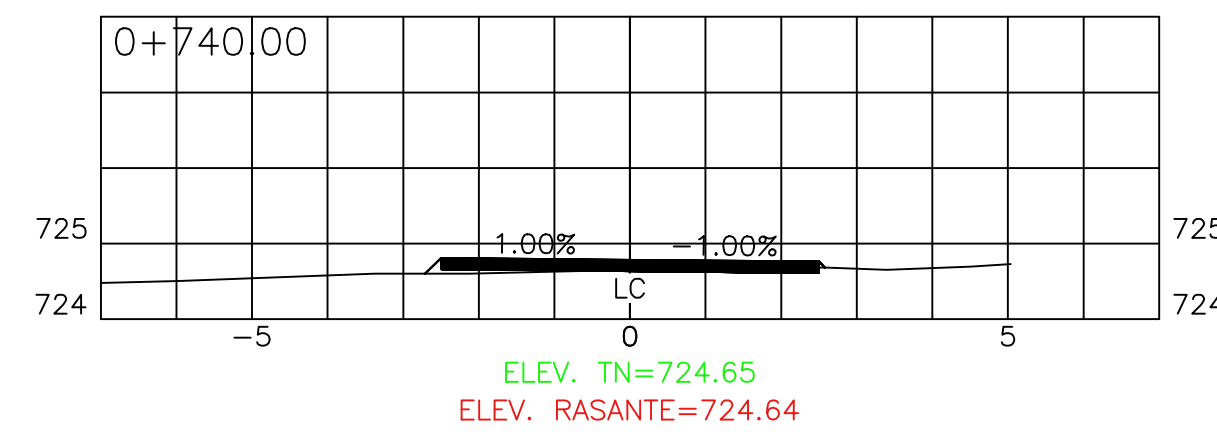
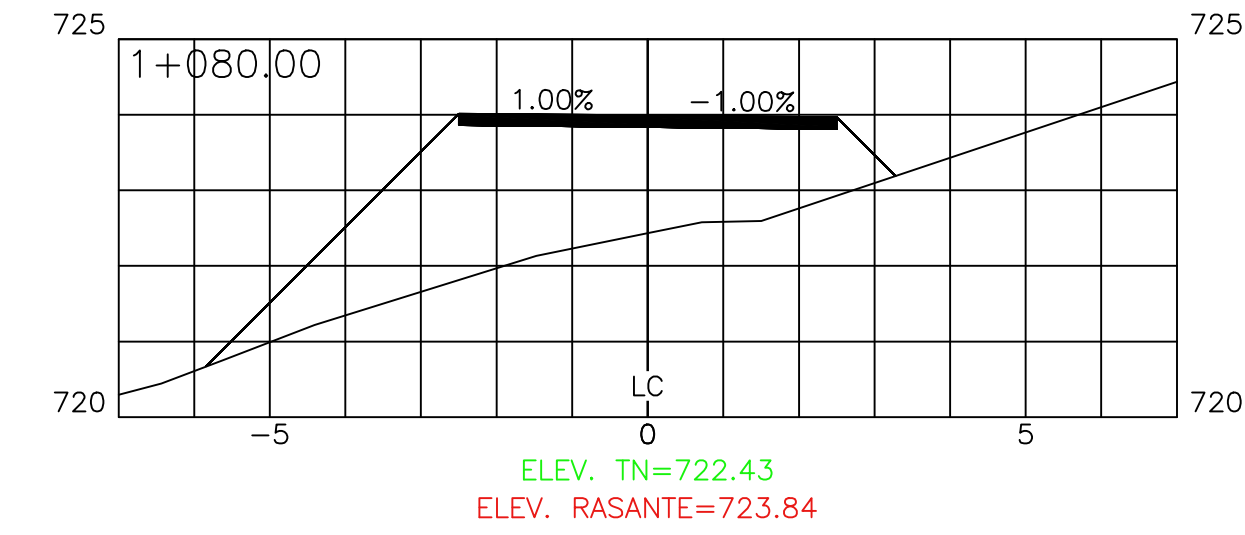
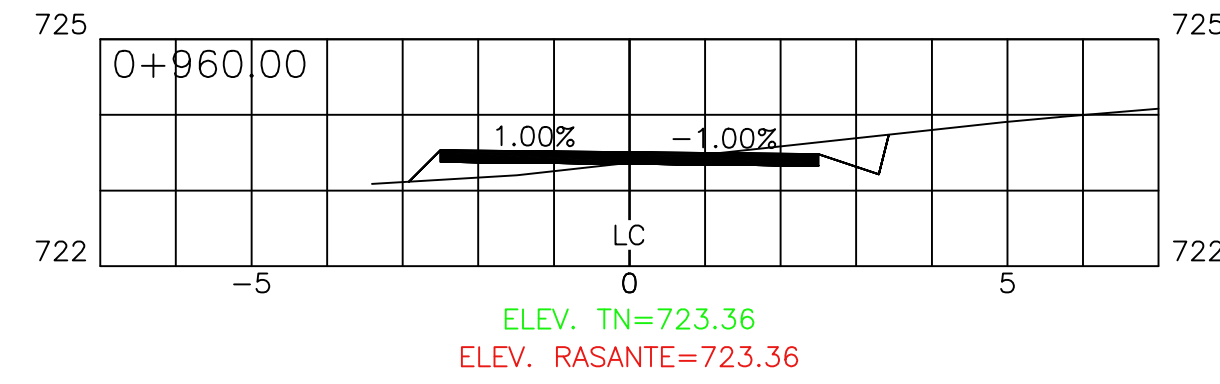
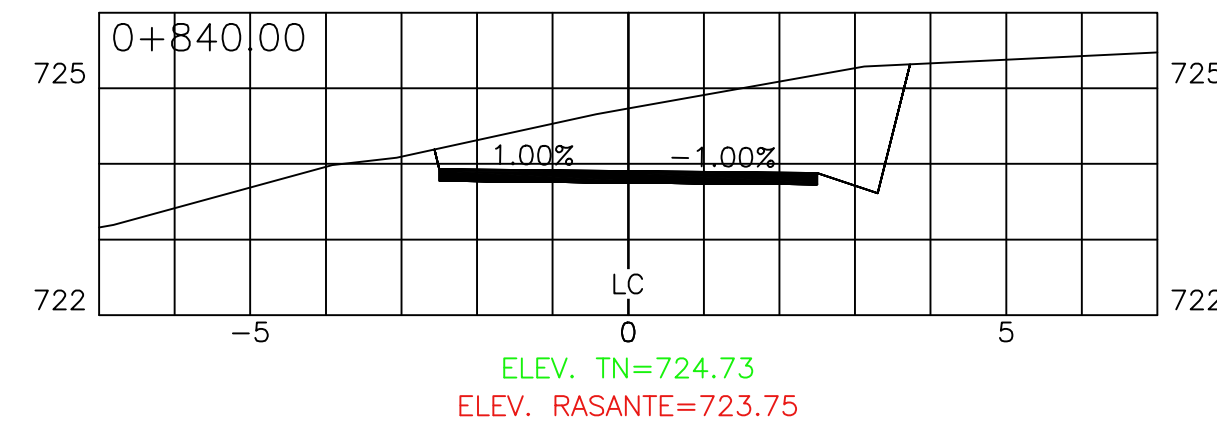
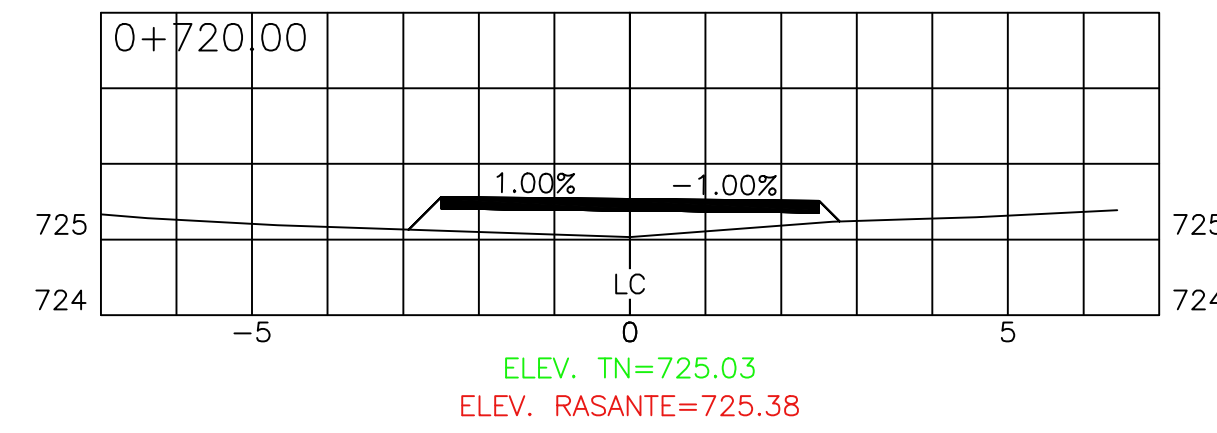
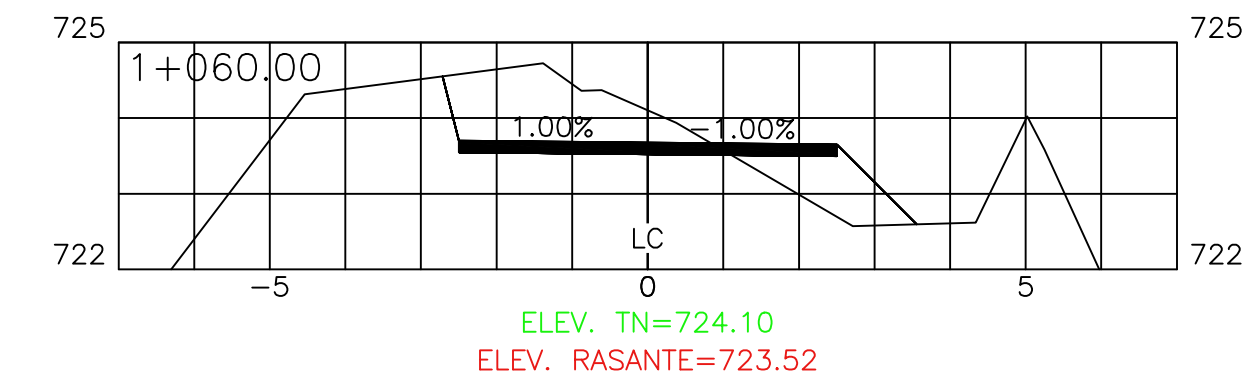
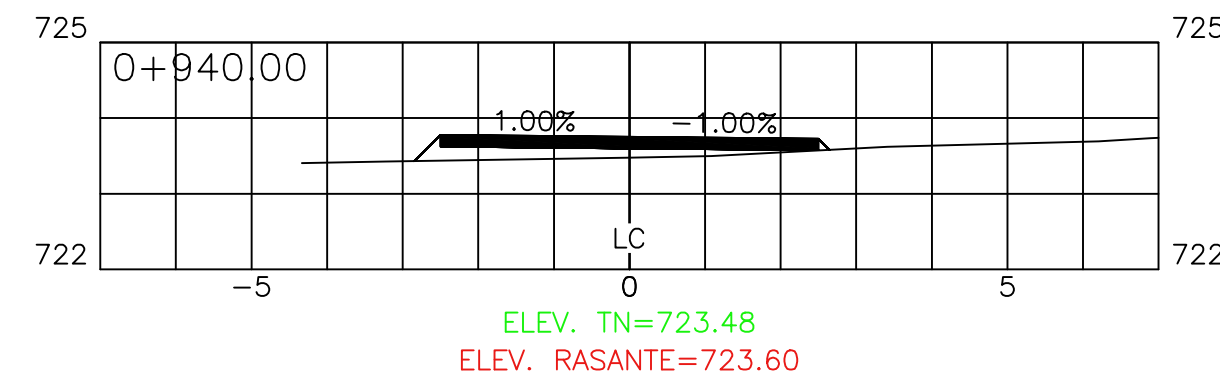
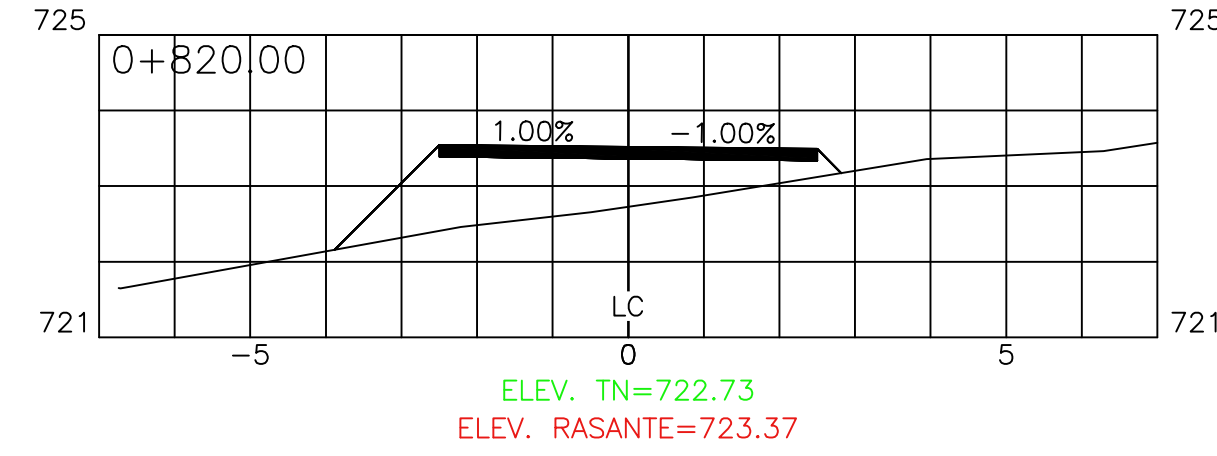
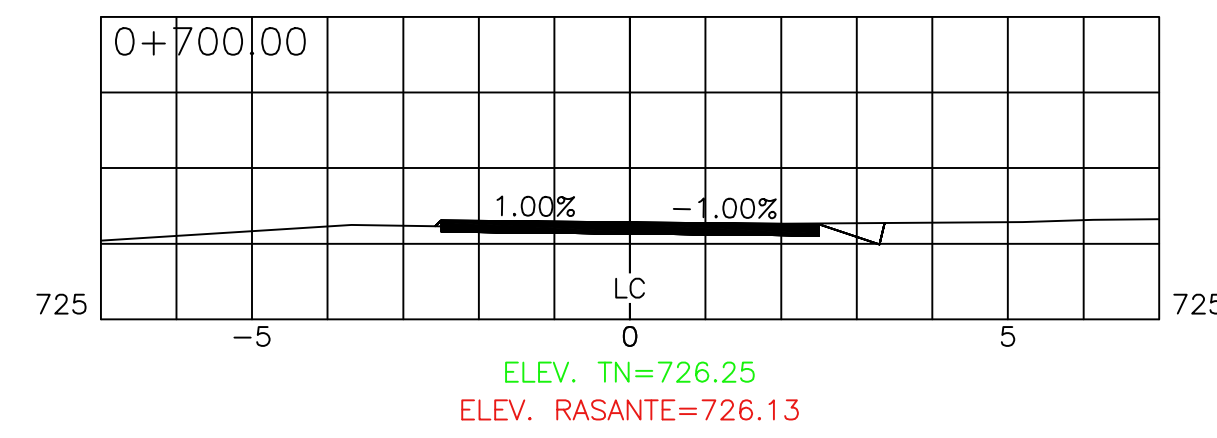
ESTACIÓN DE INICIO	ESTACIÓN FINAL	VOLUMEN M <sup>3</sup>
1+880	2+026	5,104.89
2,530	3+010	14,833.19
3+080	4+012	33,338.13
4+130	4+250	1,715.49
	<b>TOTAL</b>	<b>54,991.70</b>



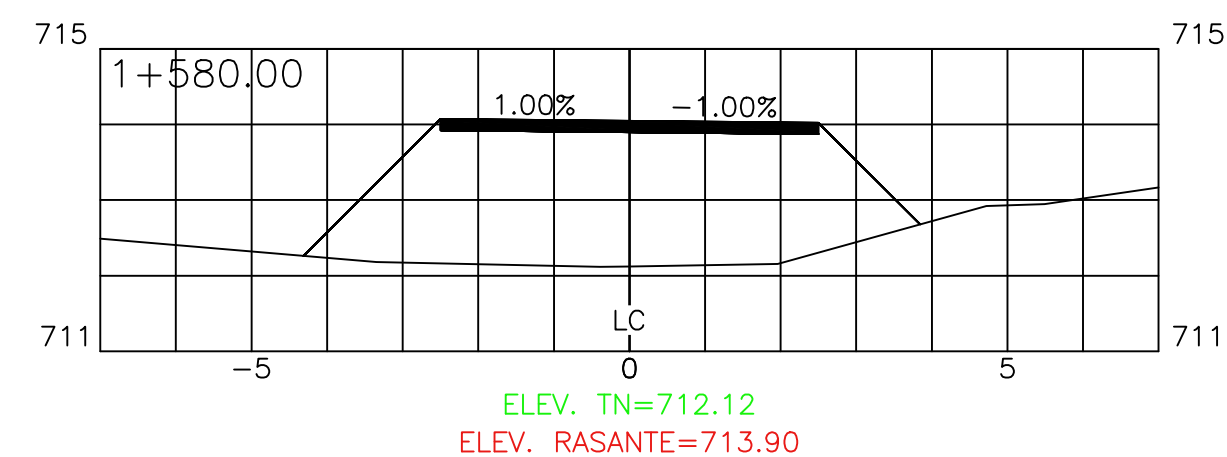
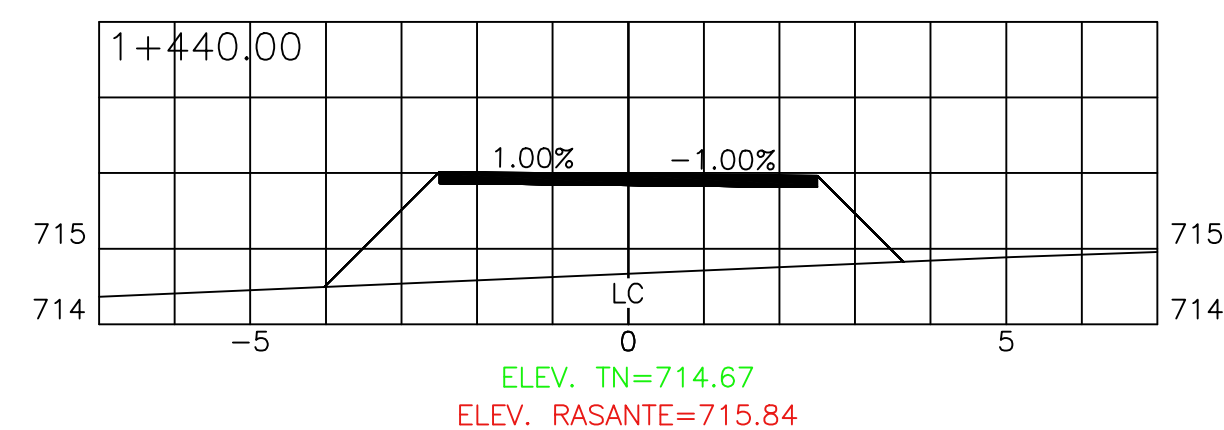
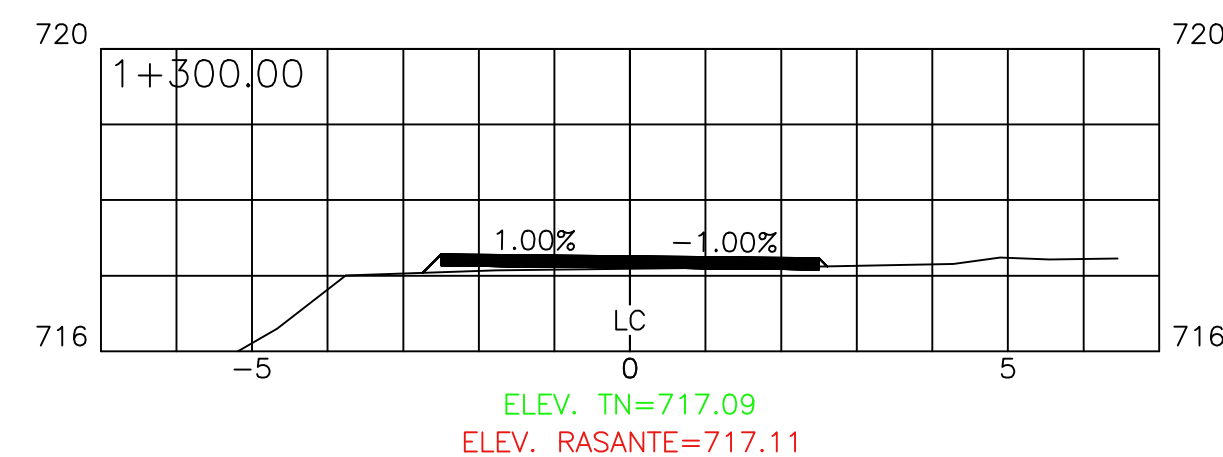
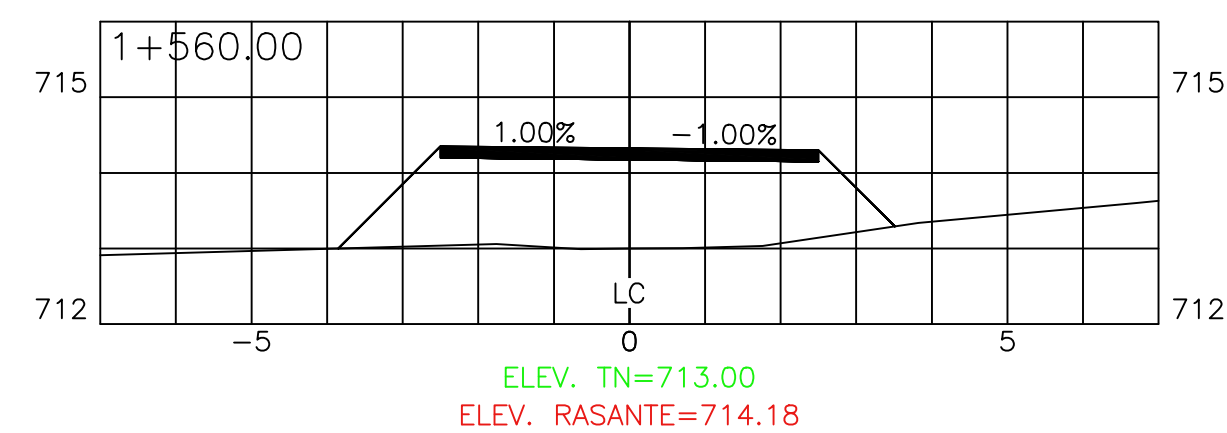
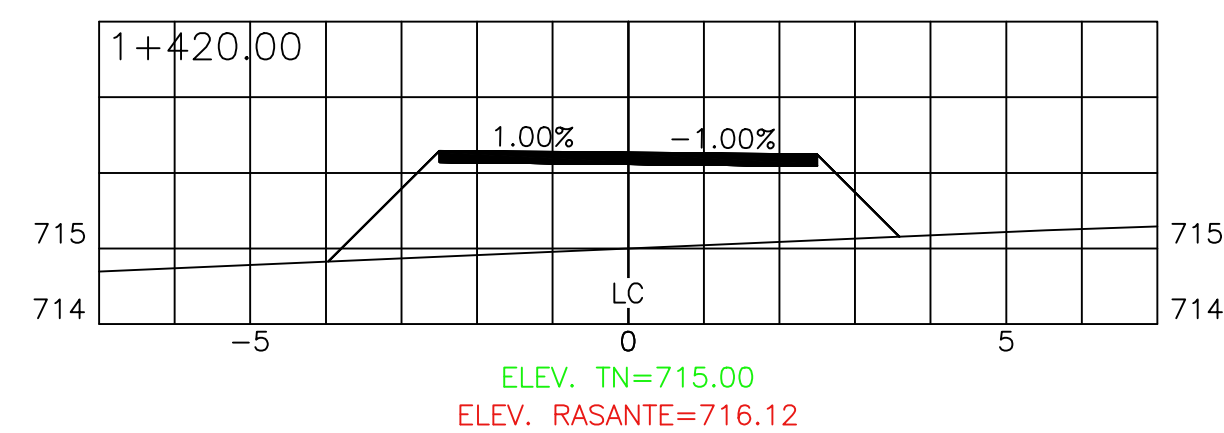
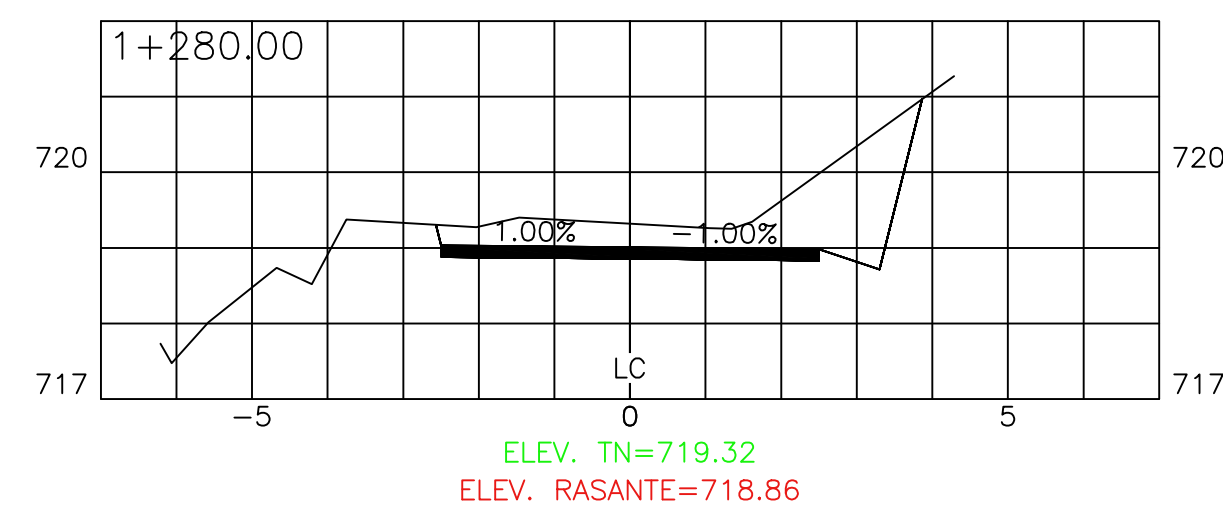
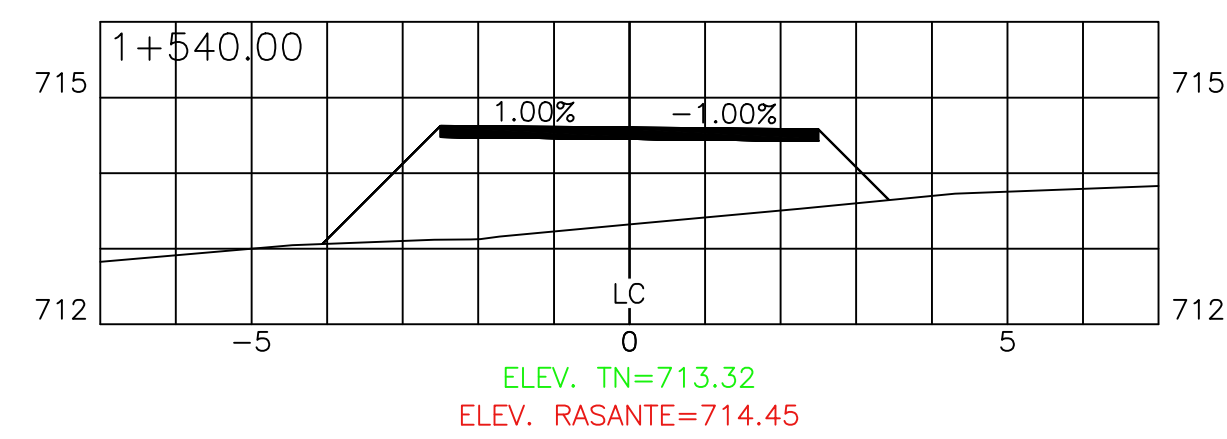
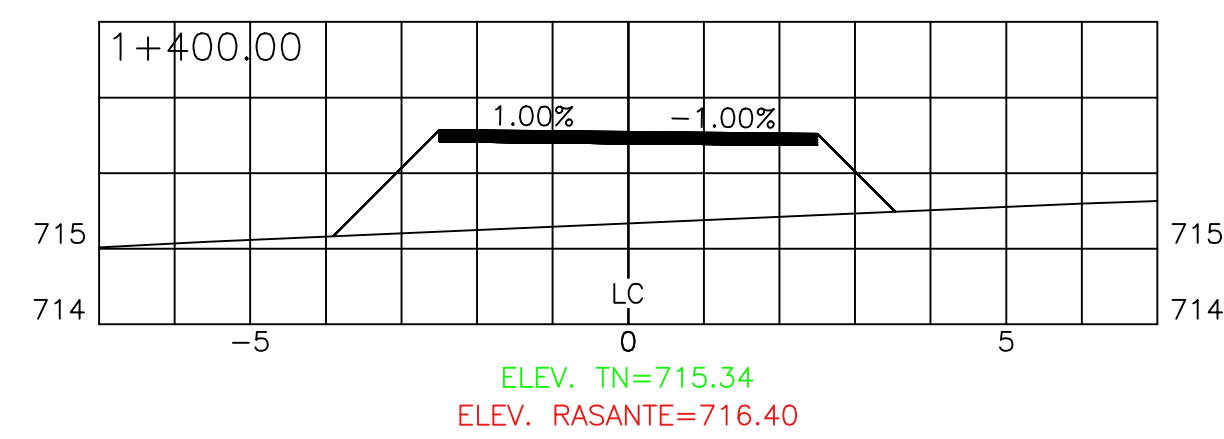
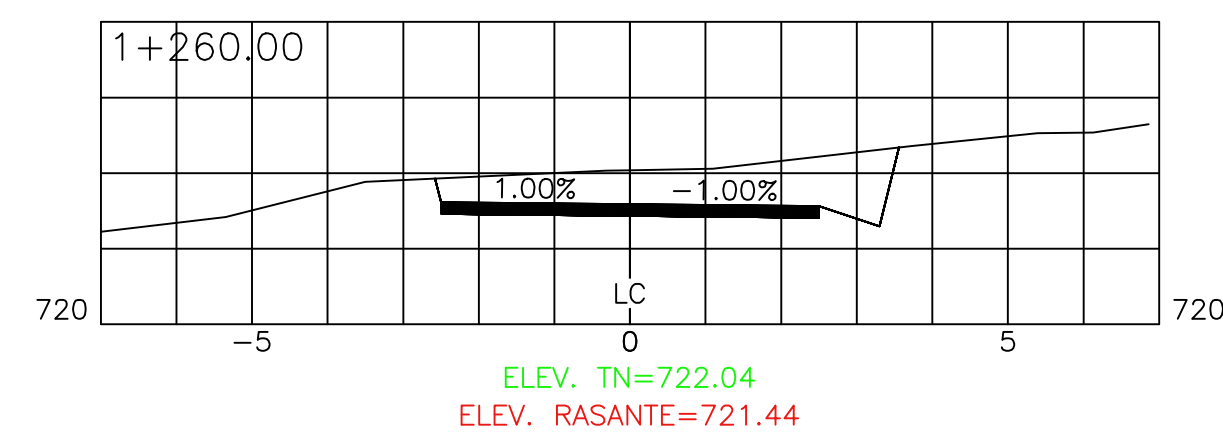
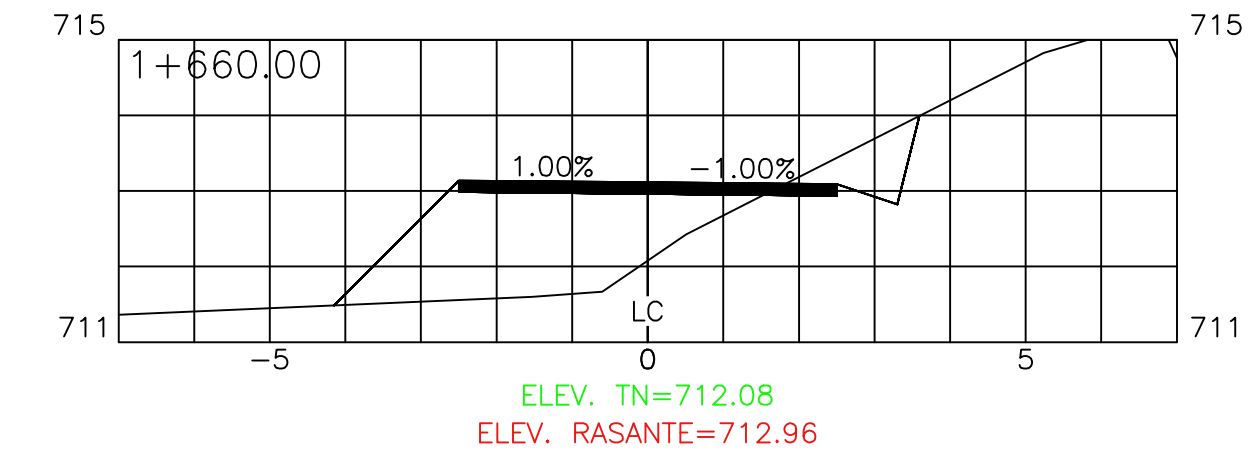
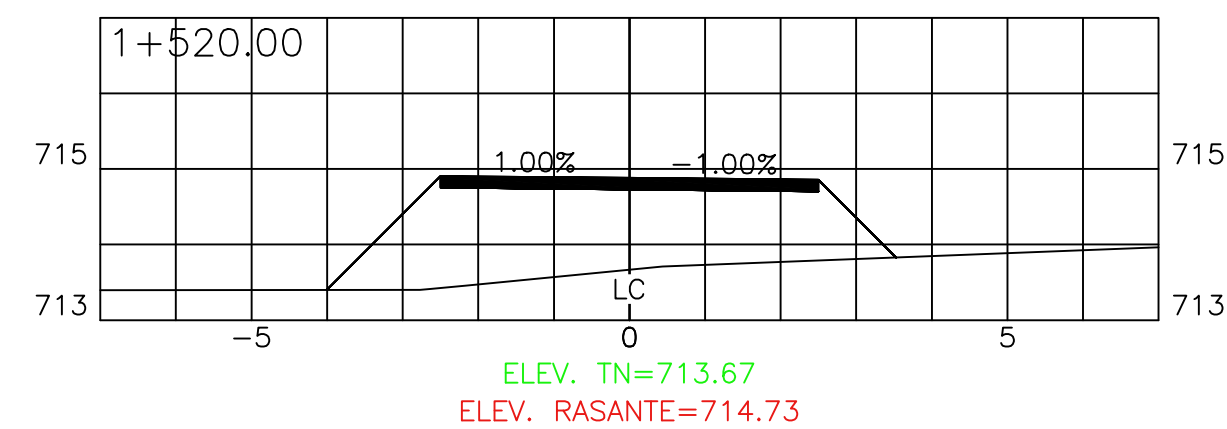
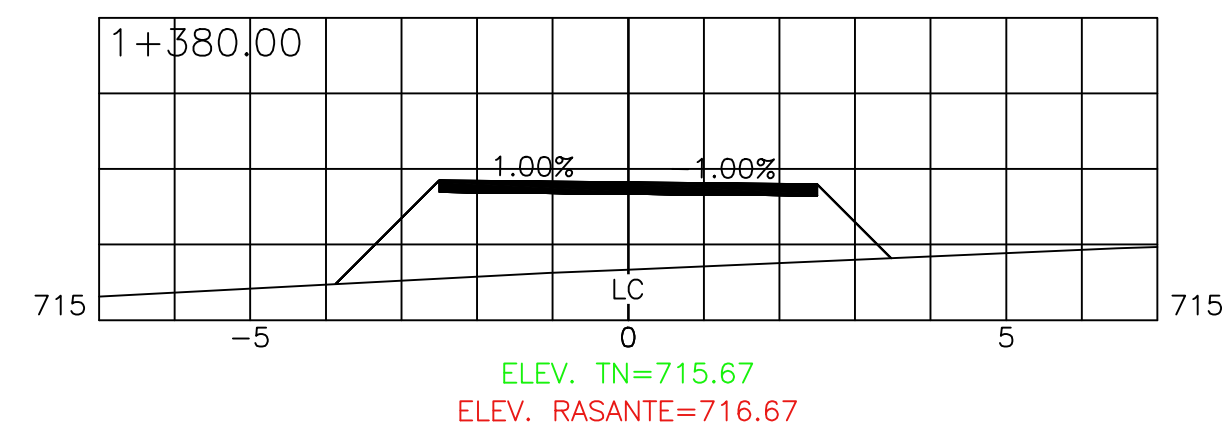
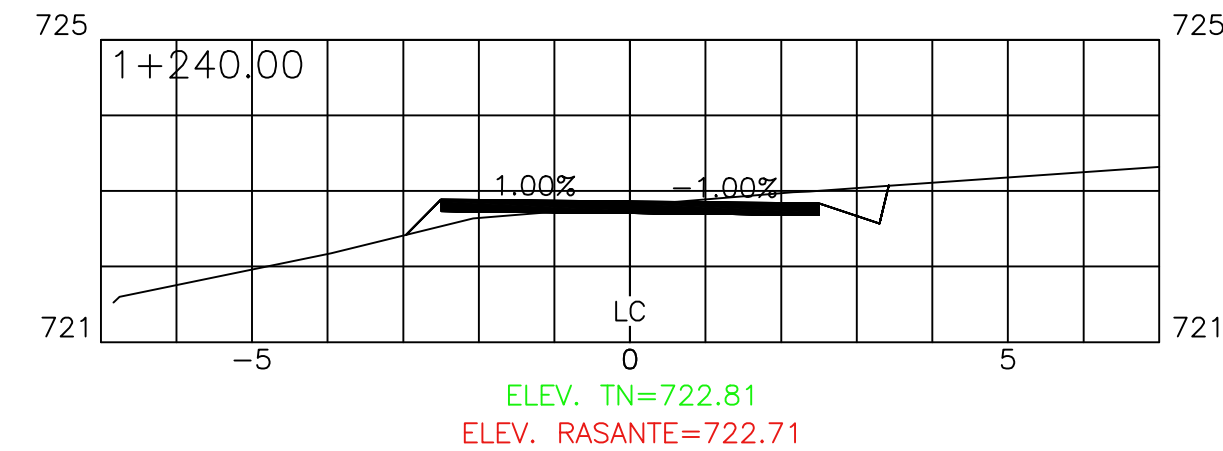
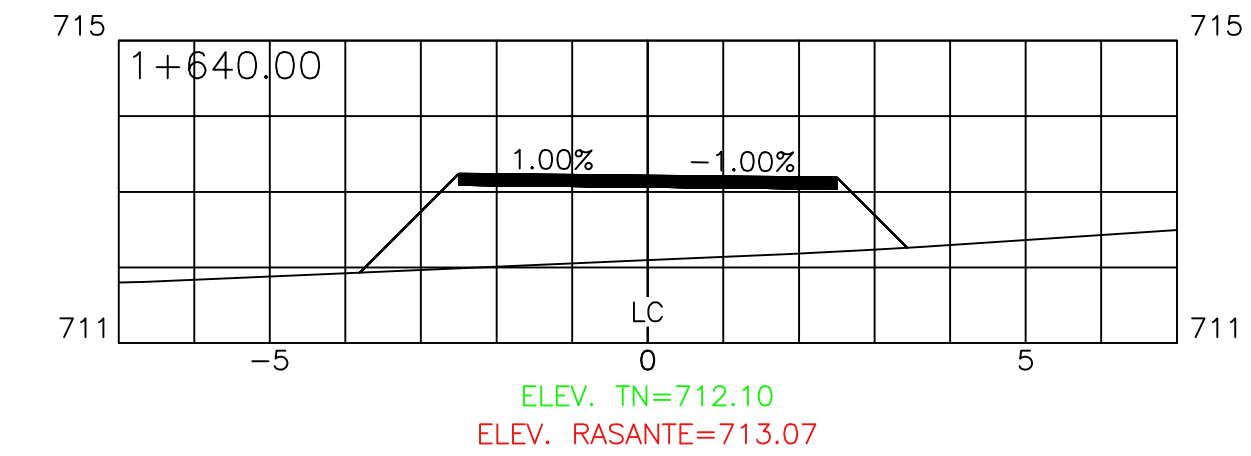
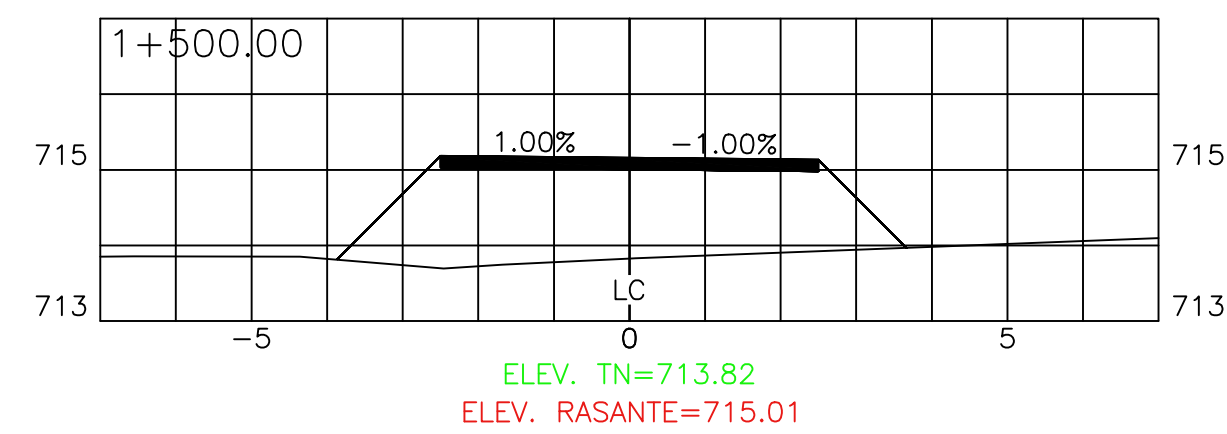
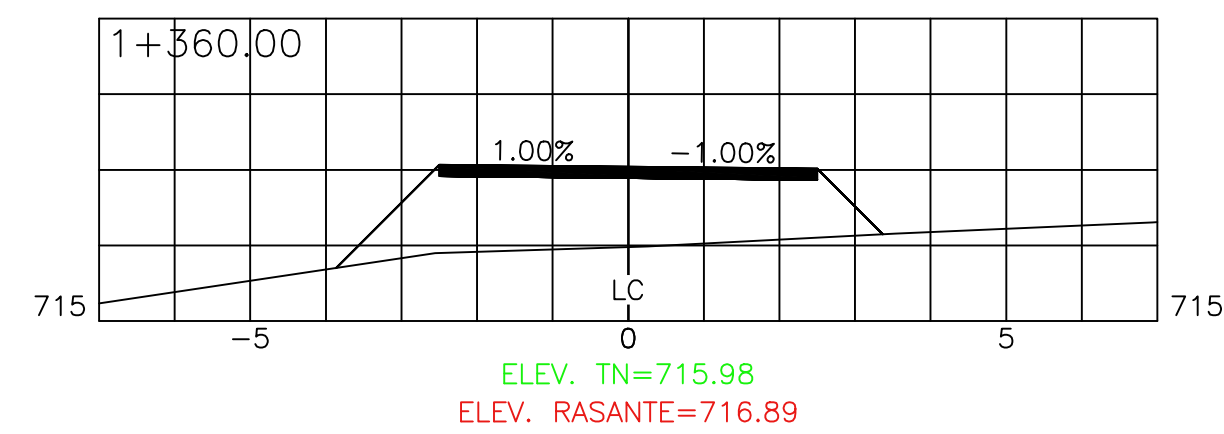
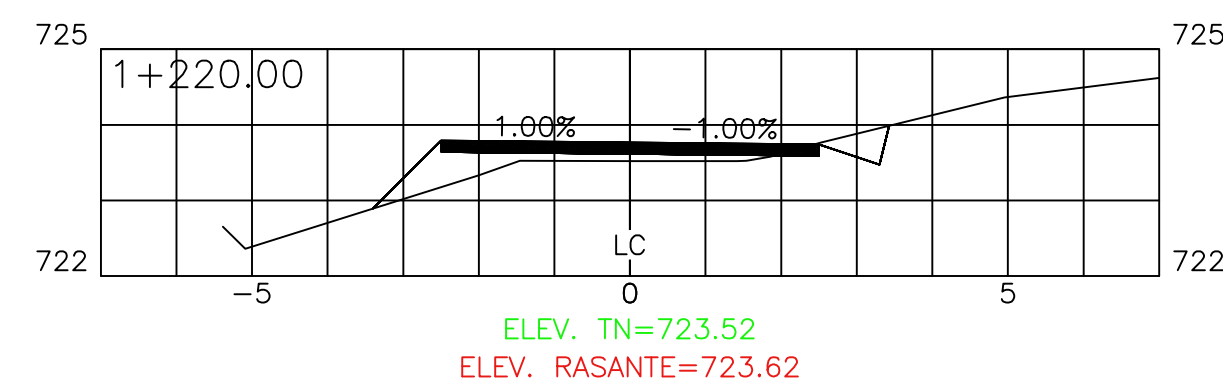
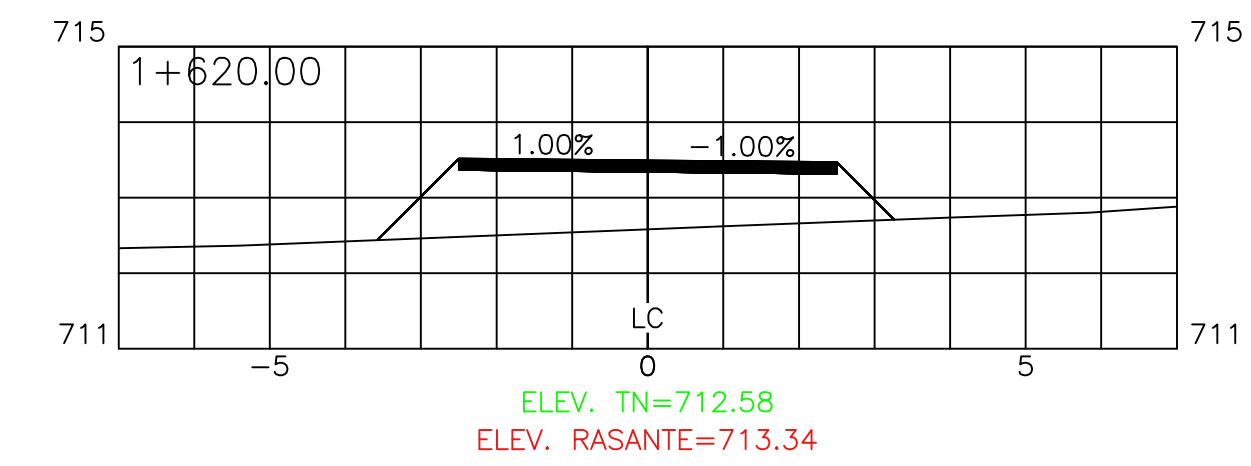
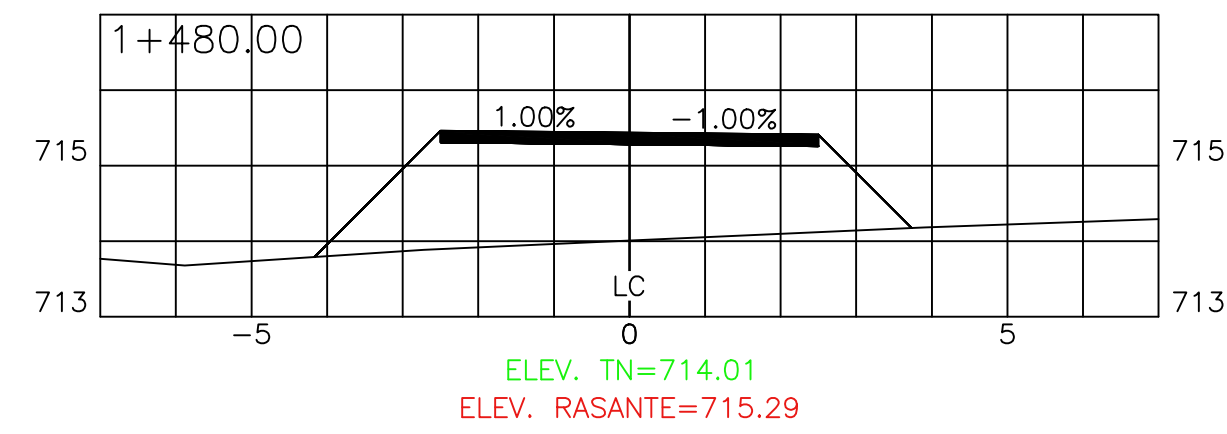
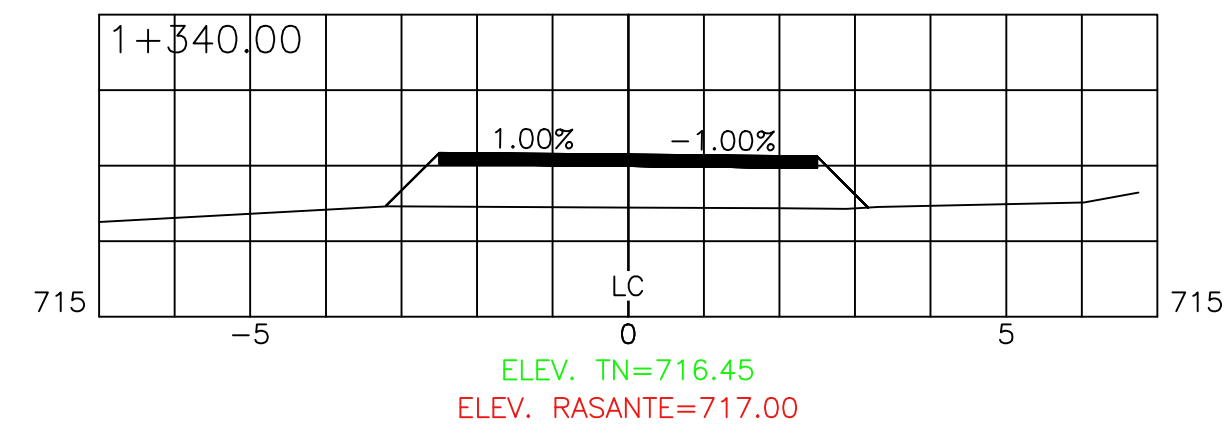
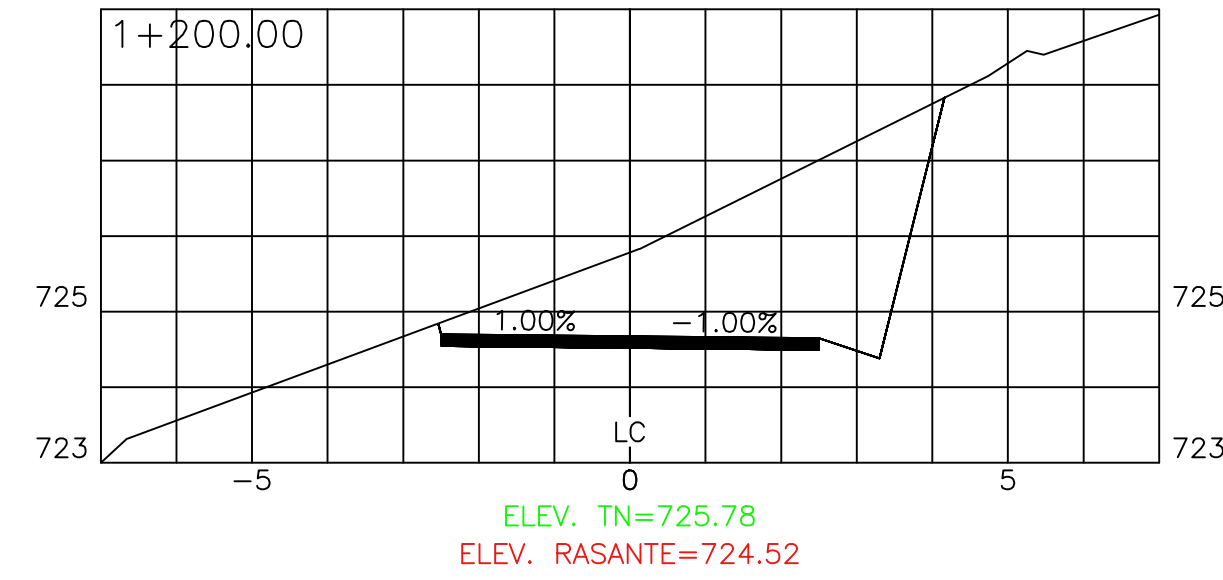
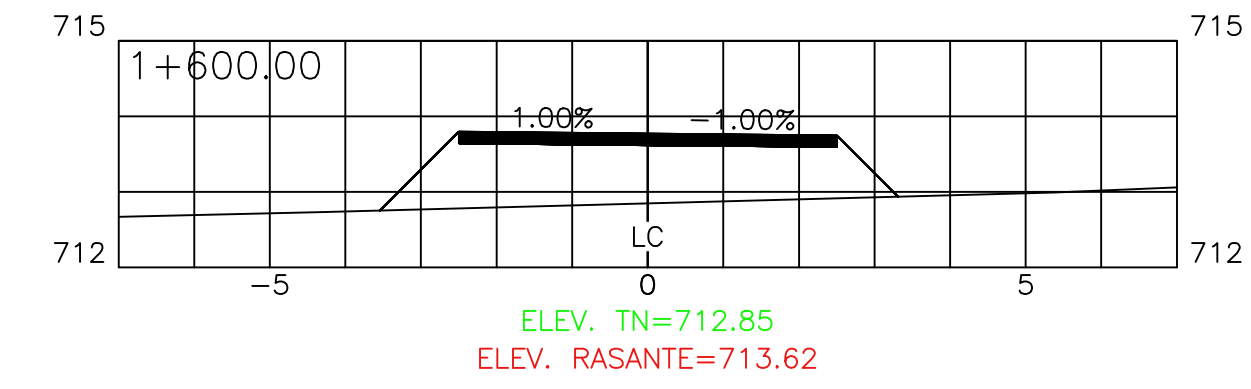
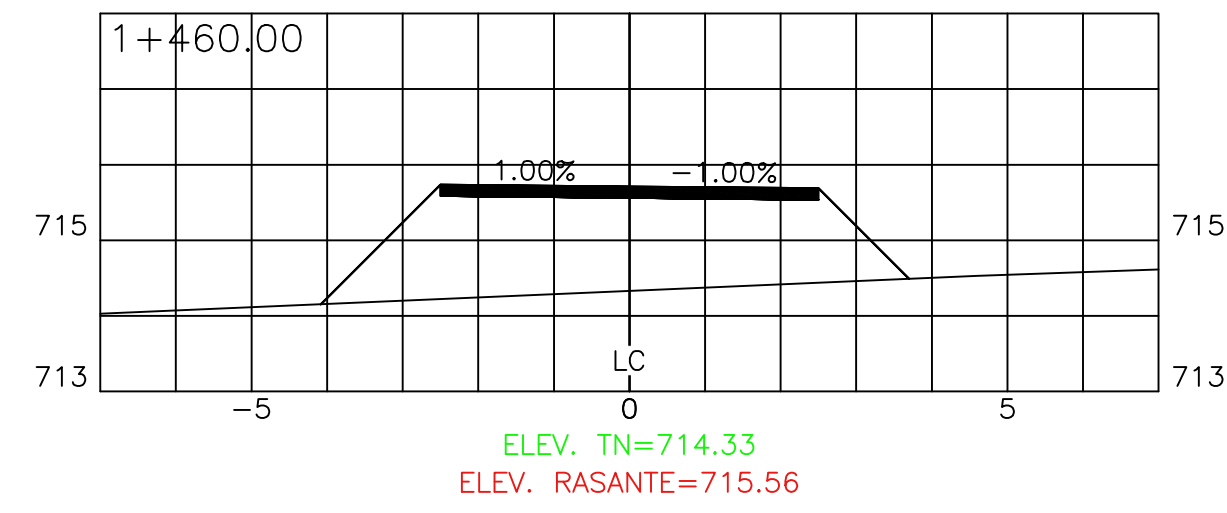
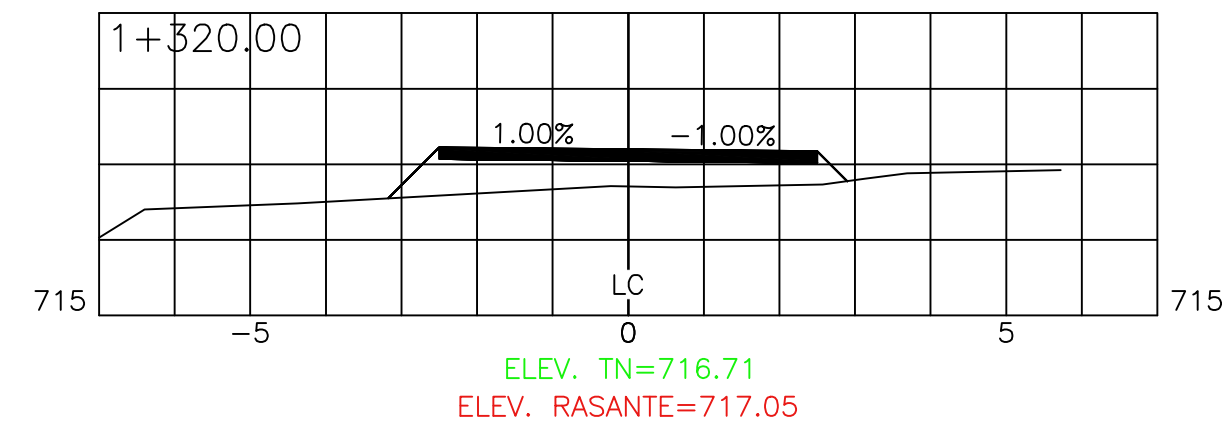
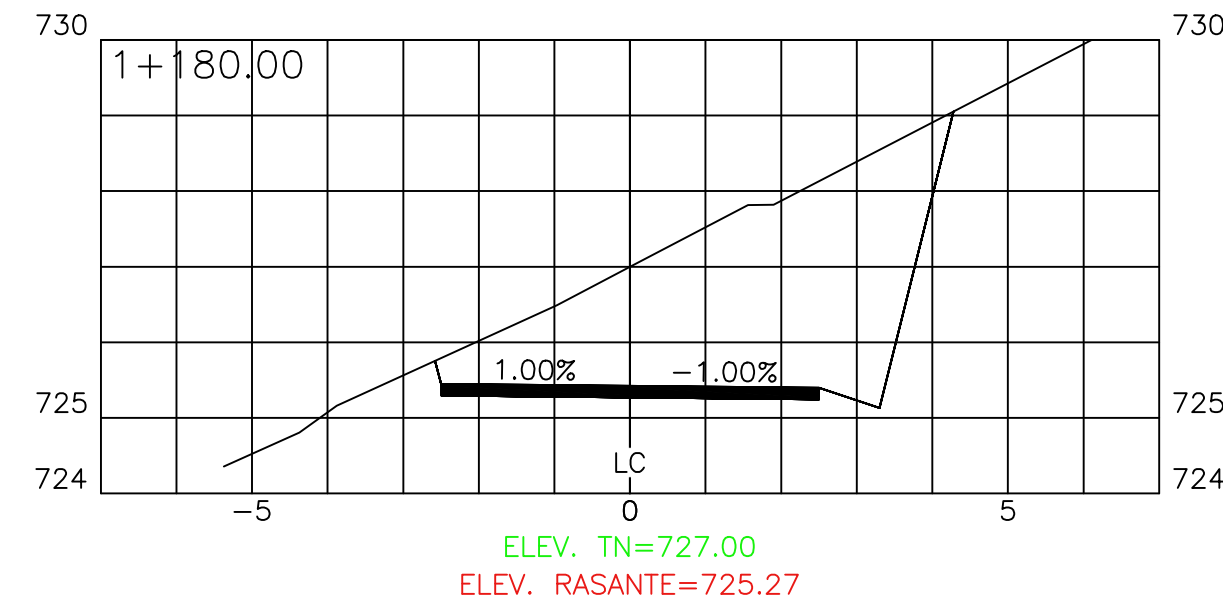
OCTUBRE 2020 ACC-12.dwg



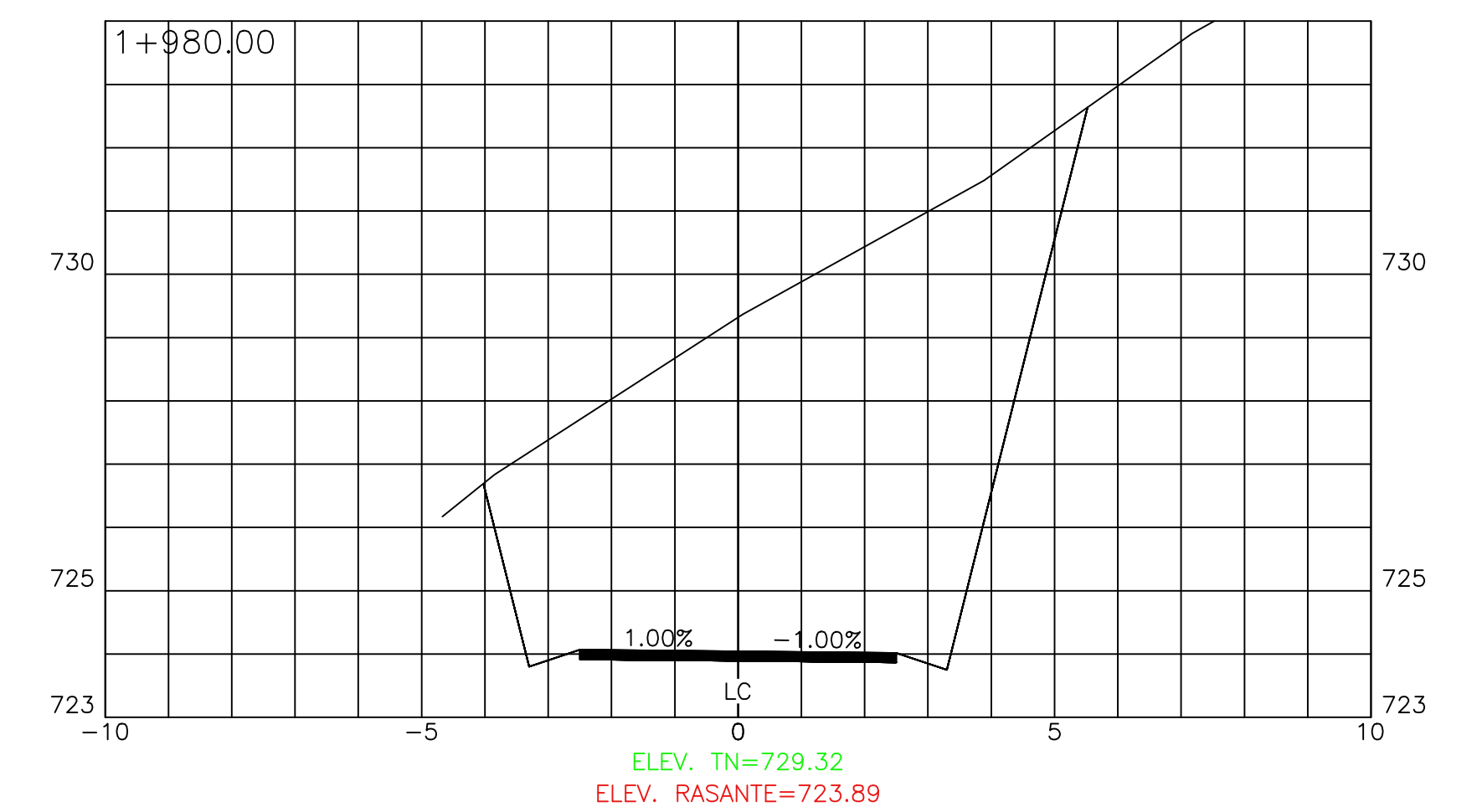
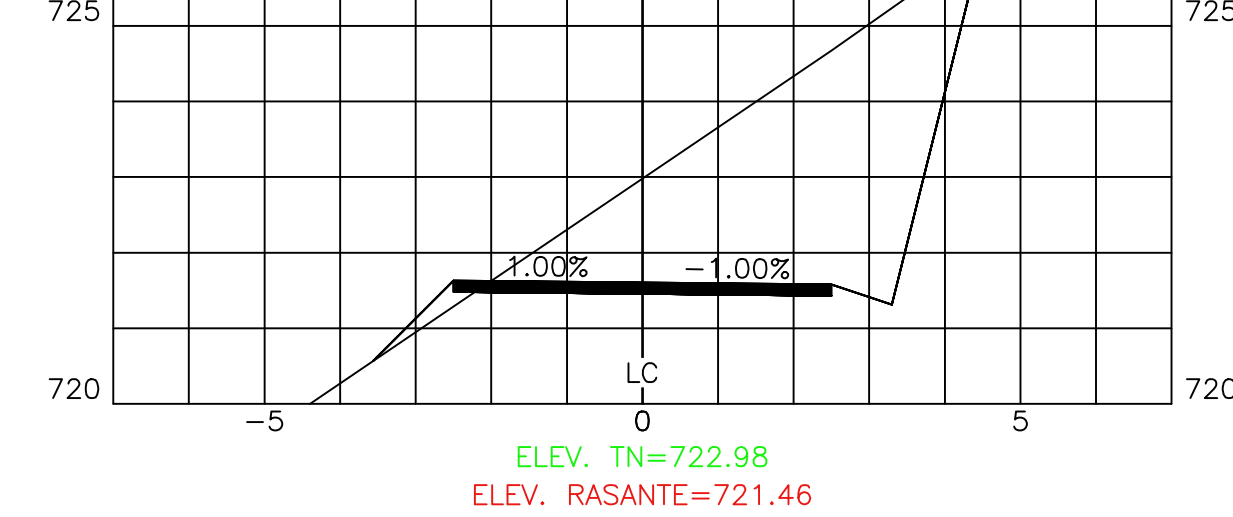
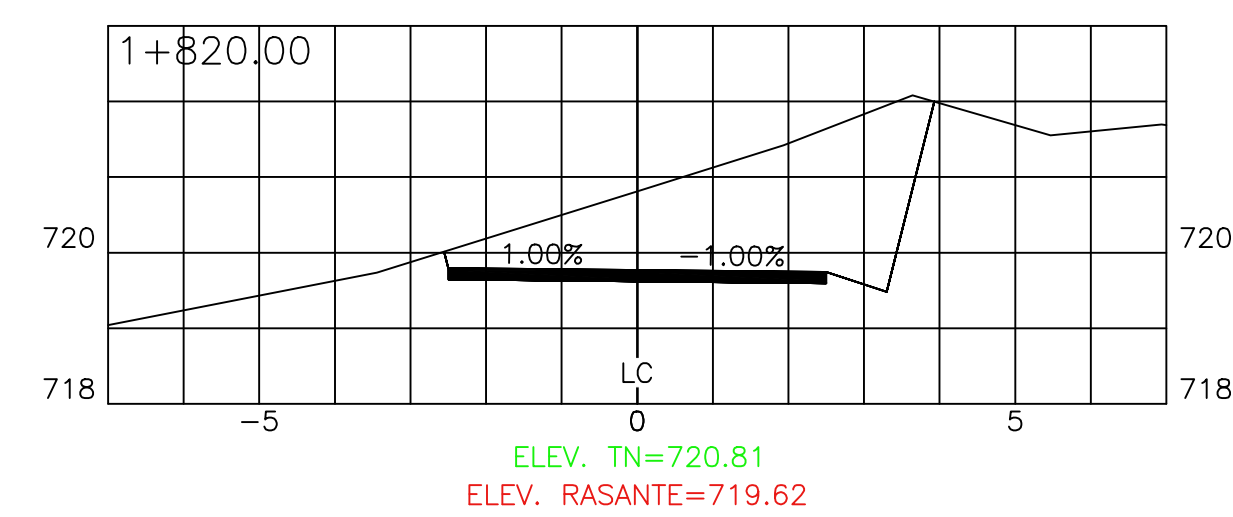
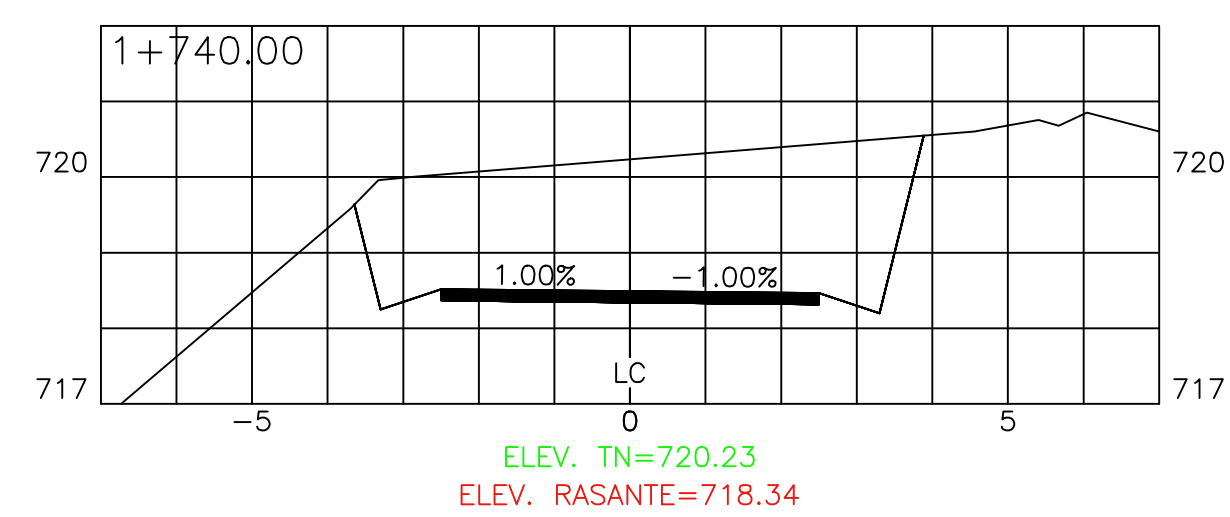
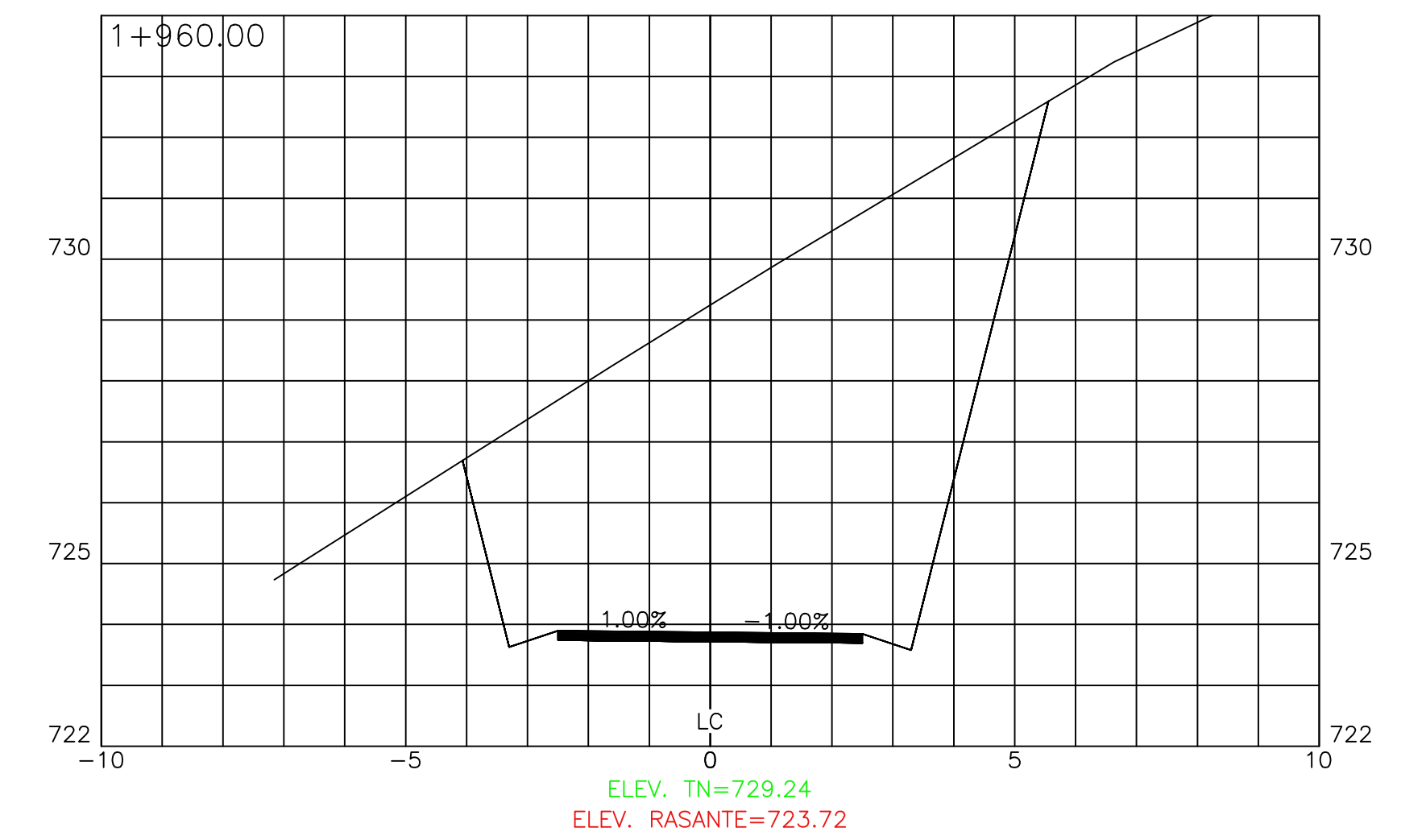
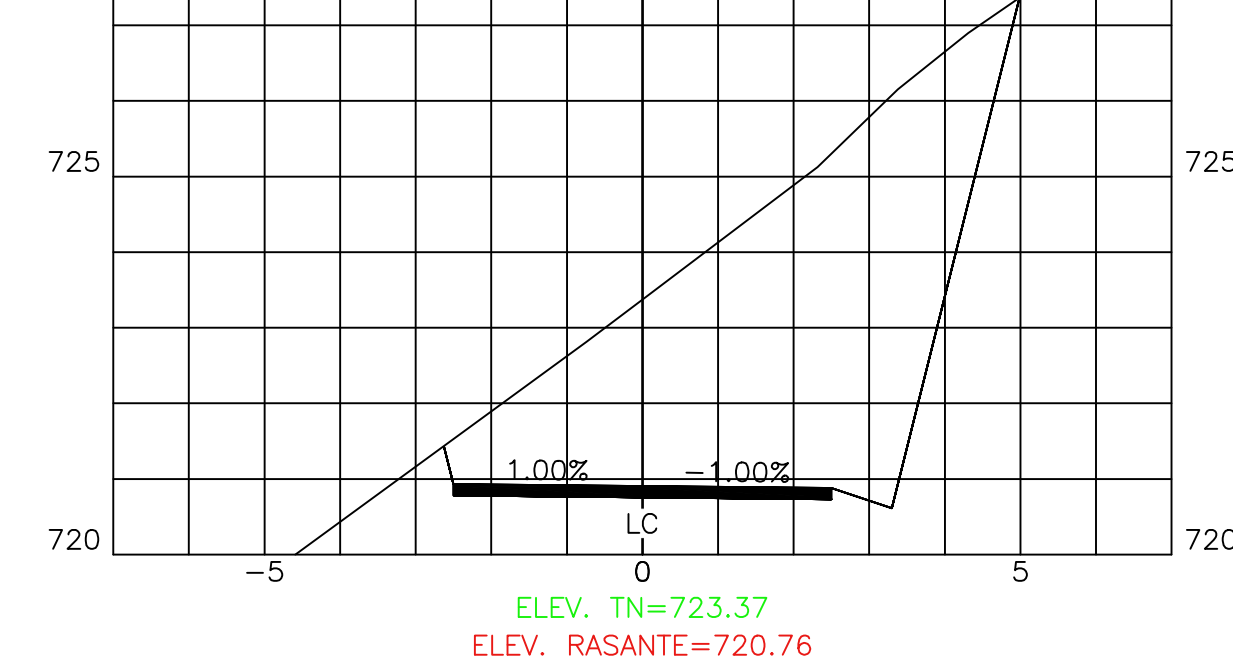
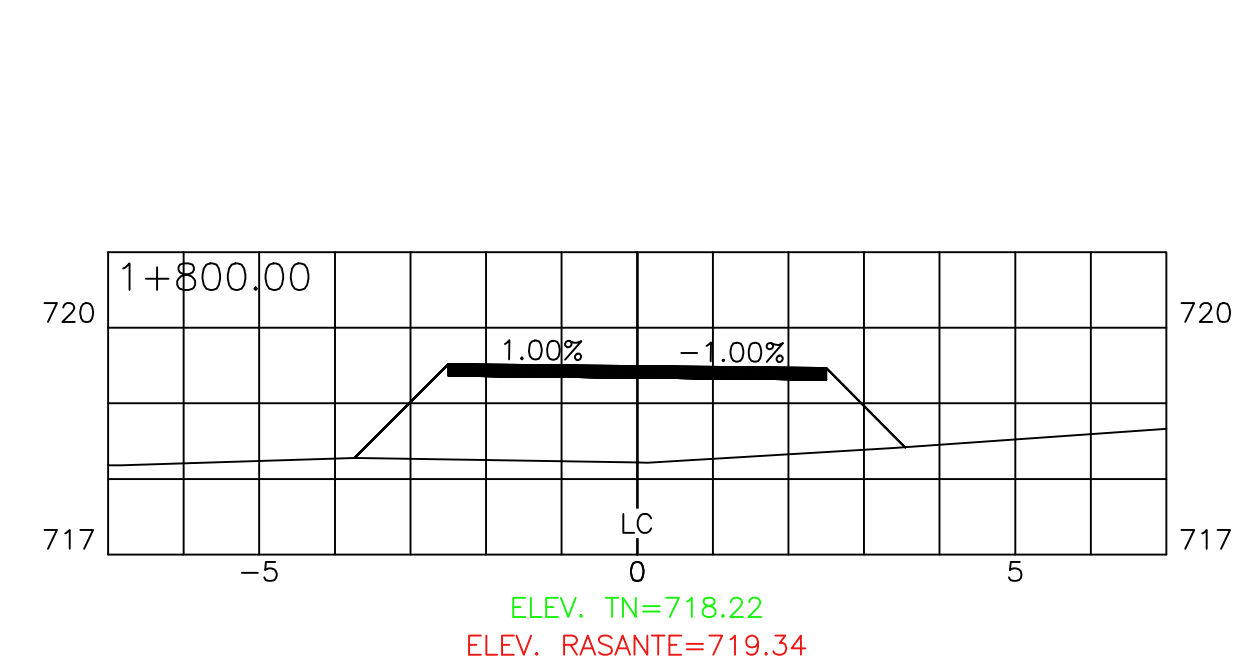
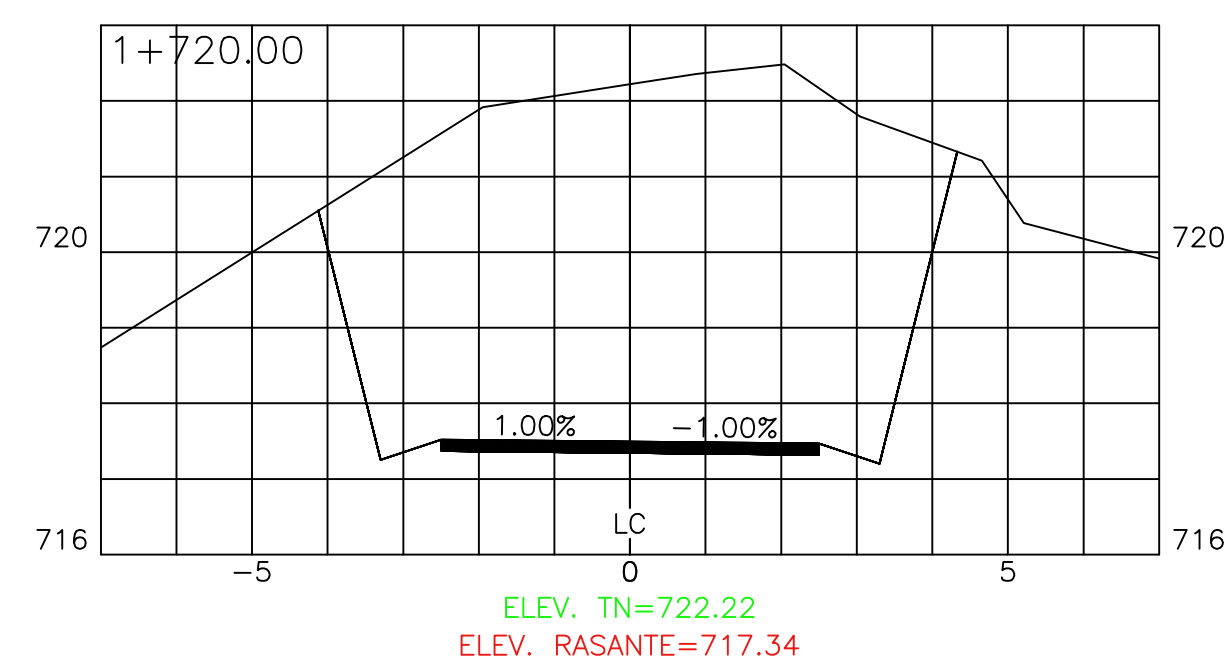
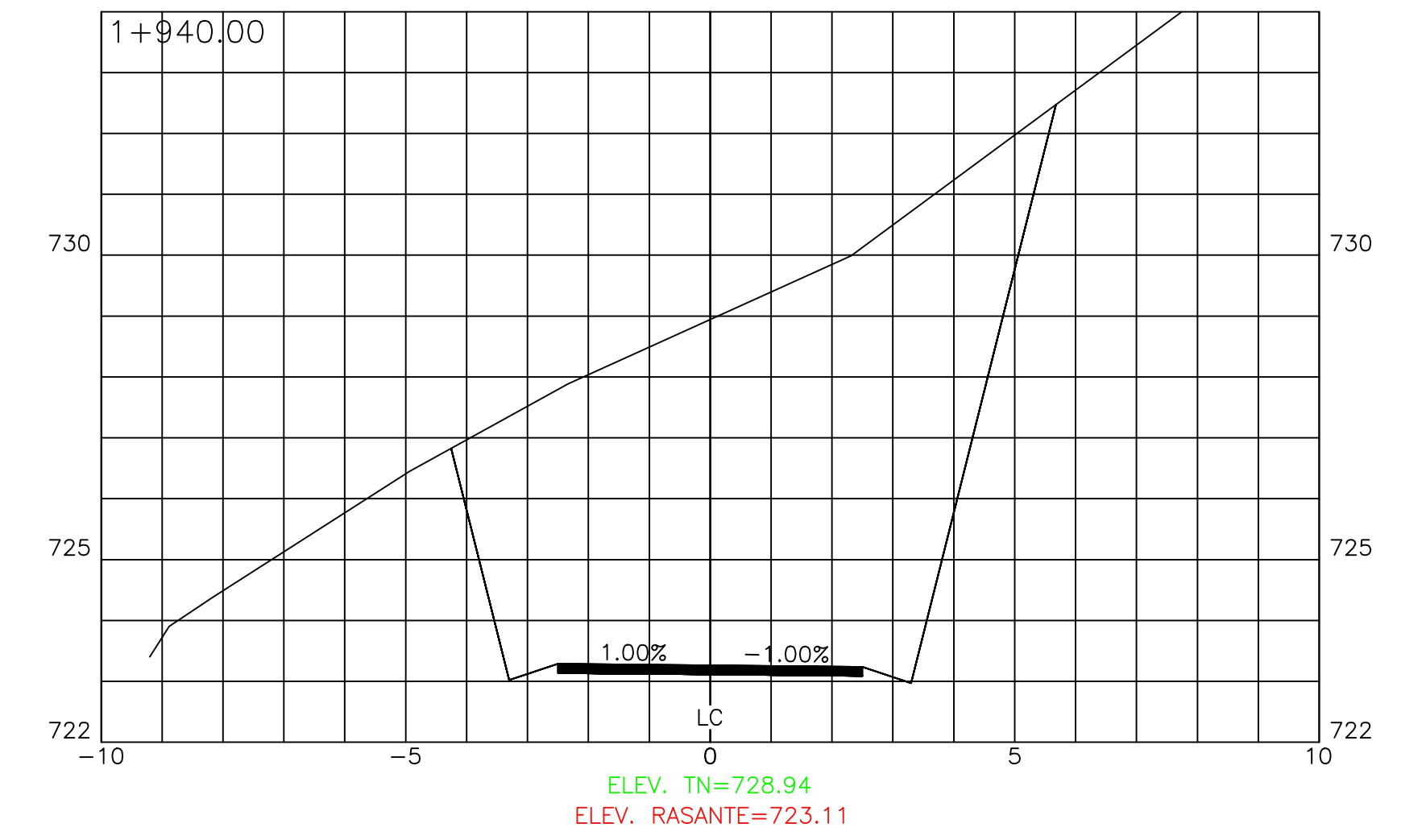
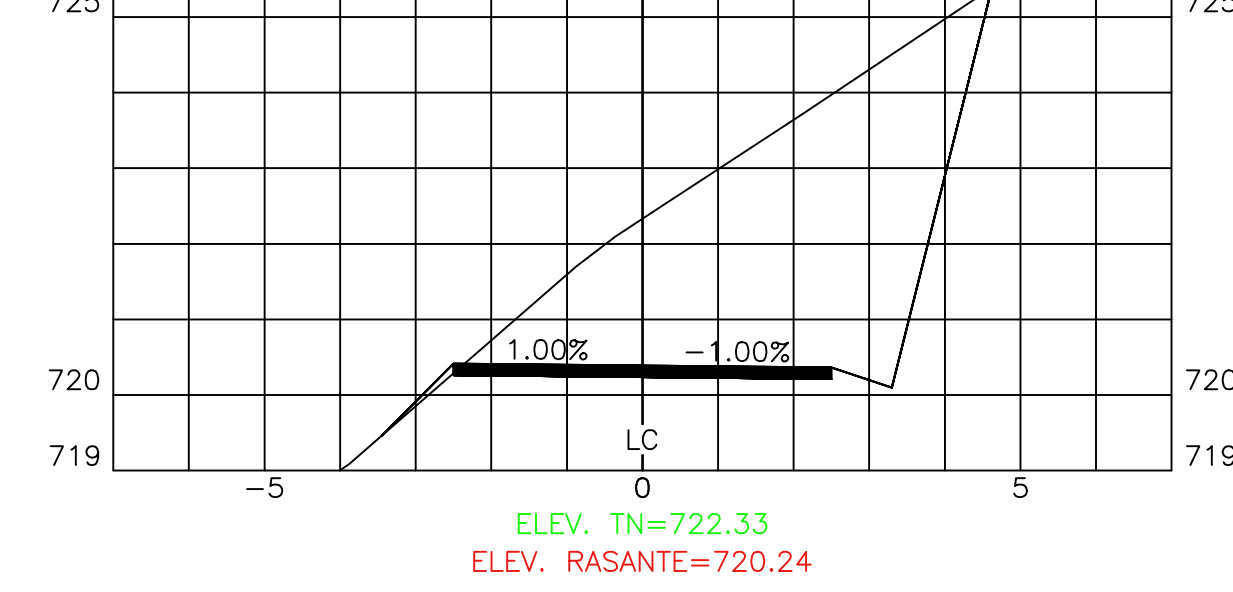
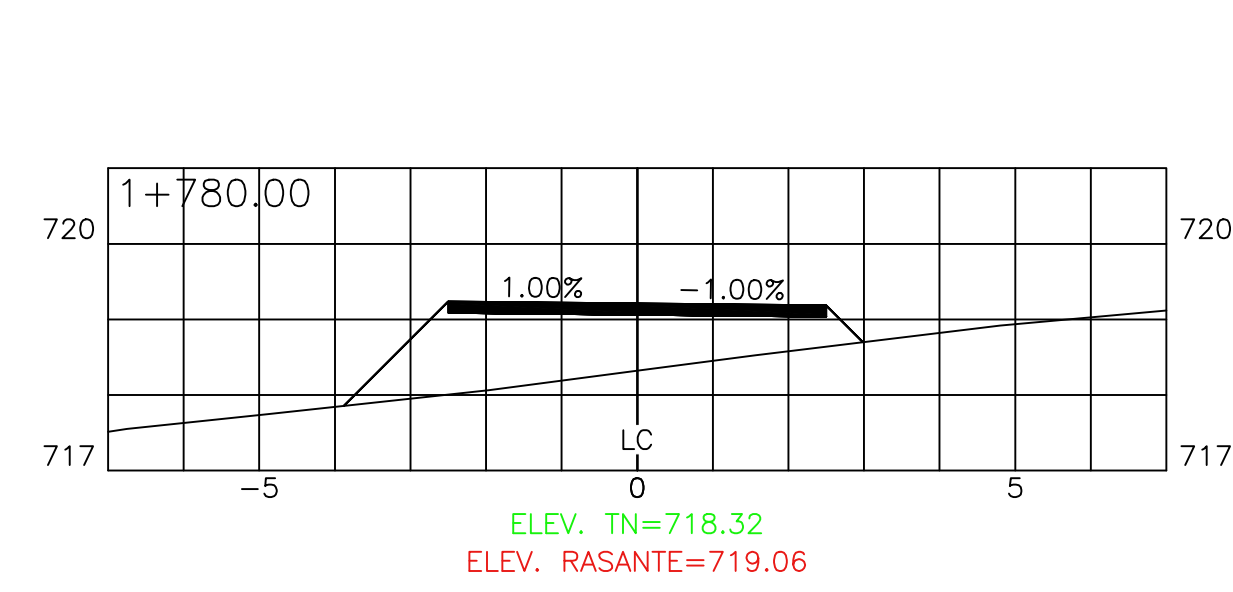
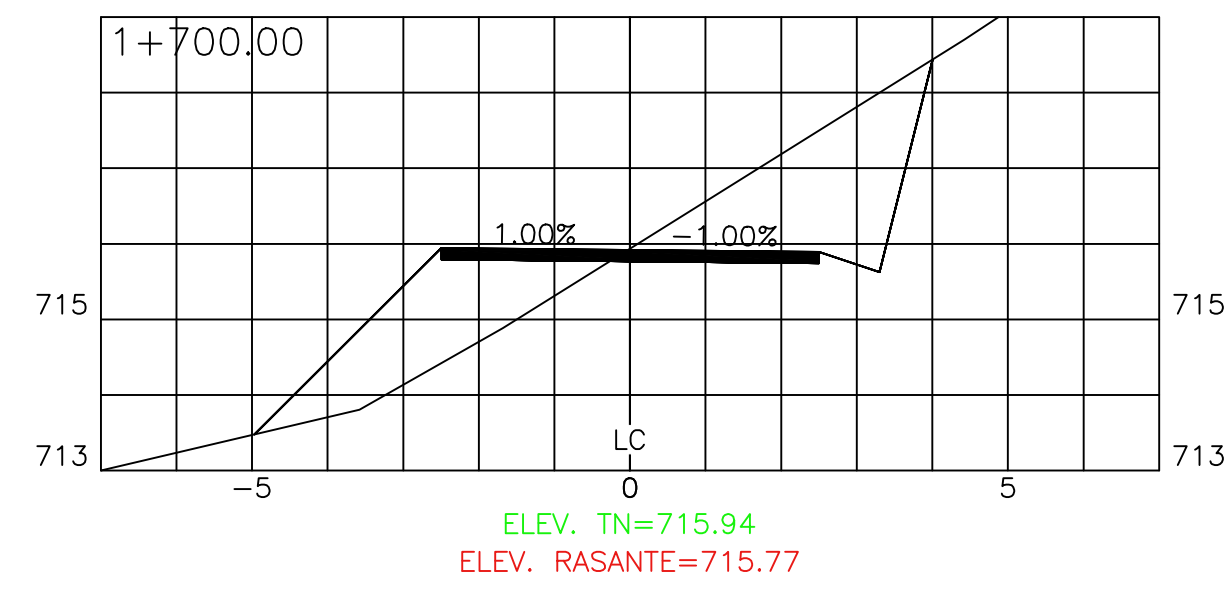
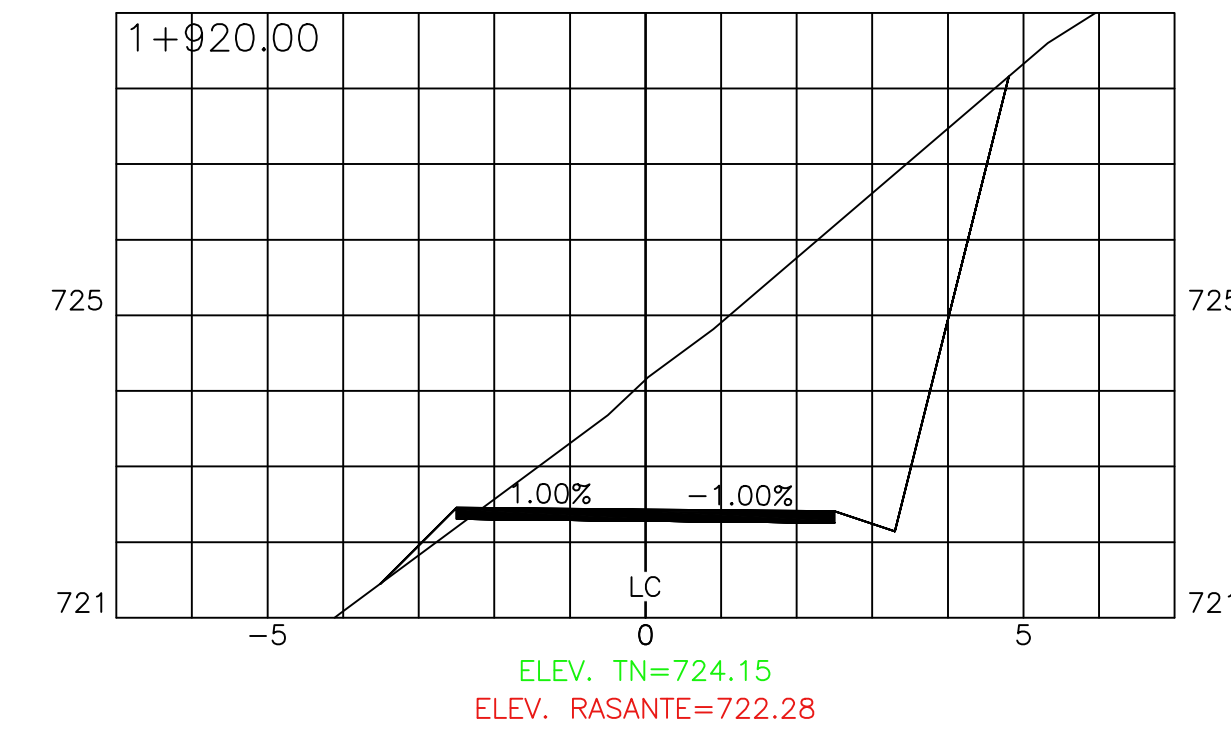
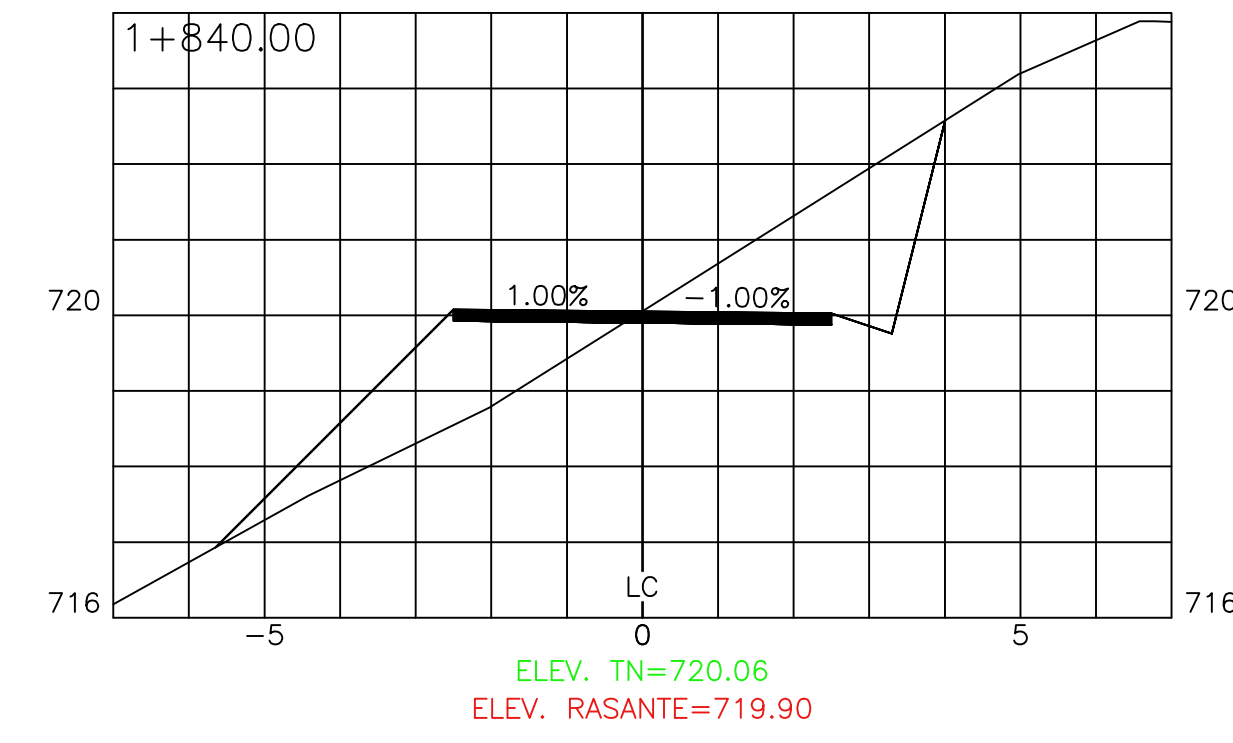
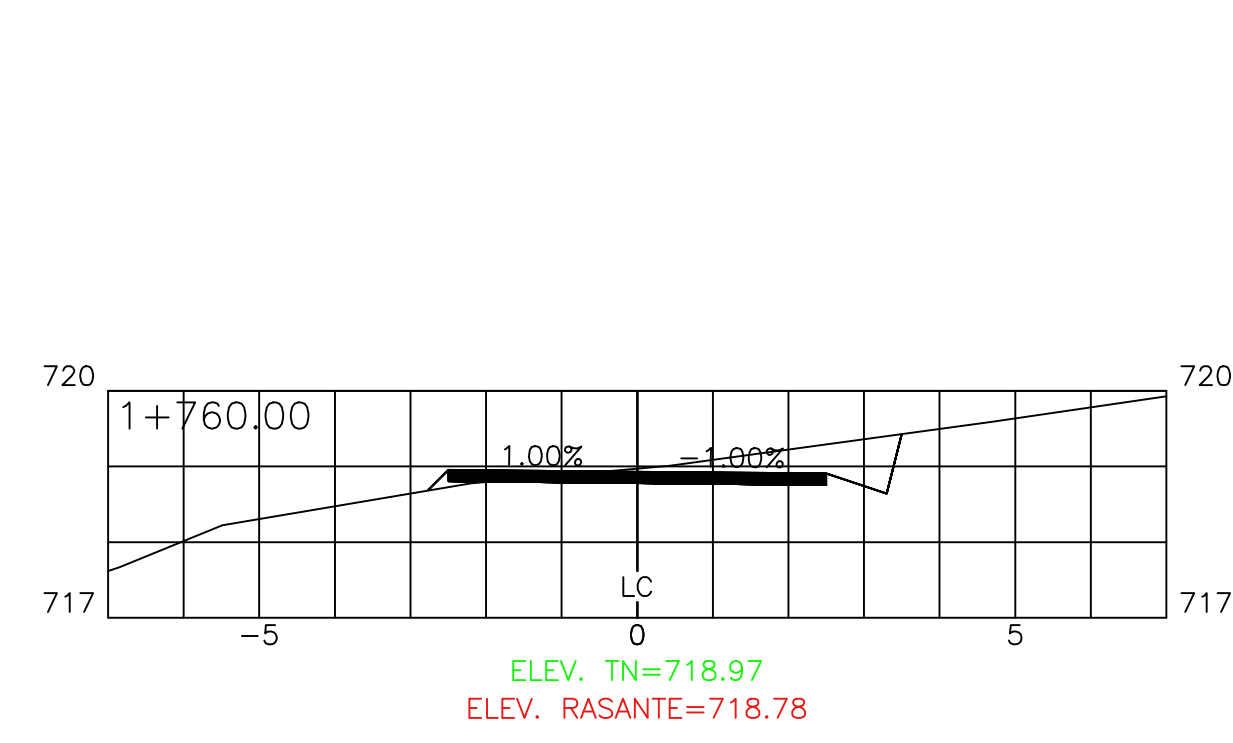
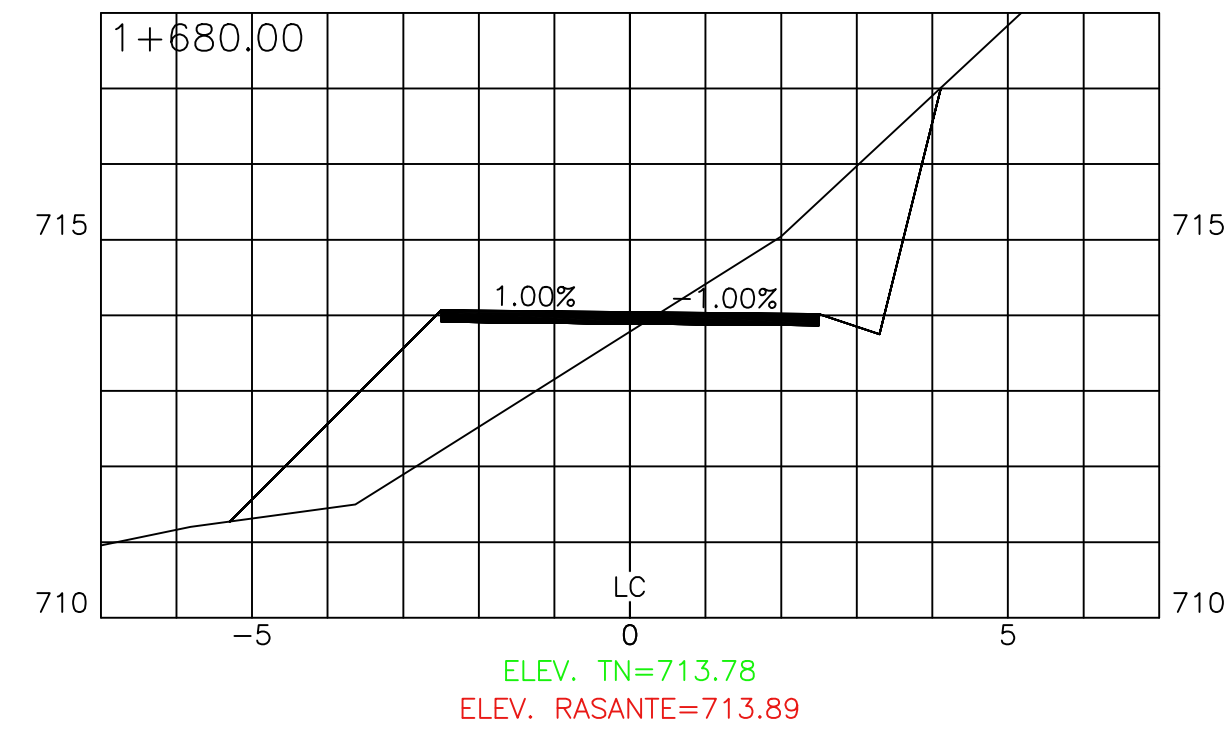
Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028



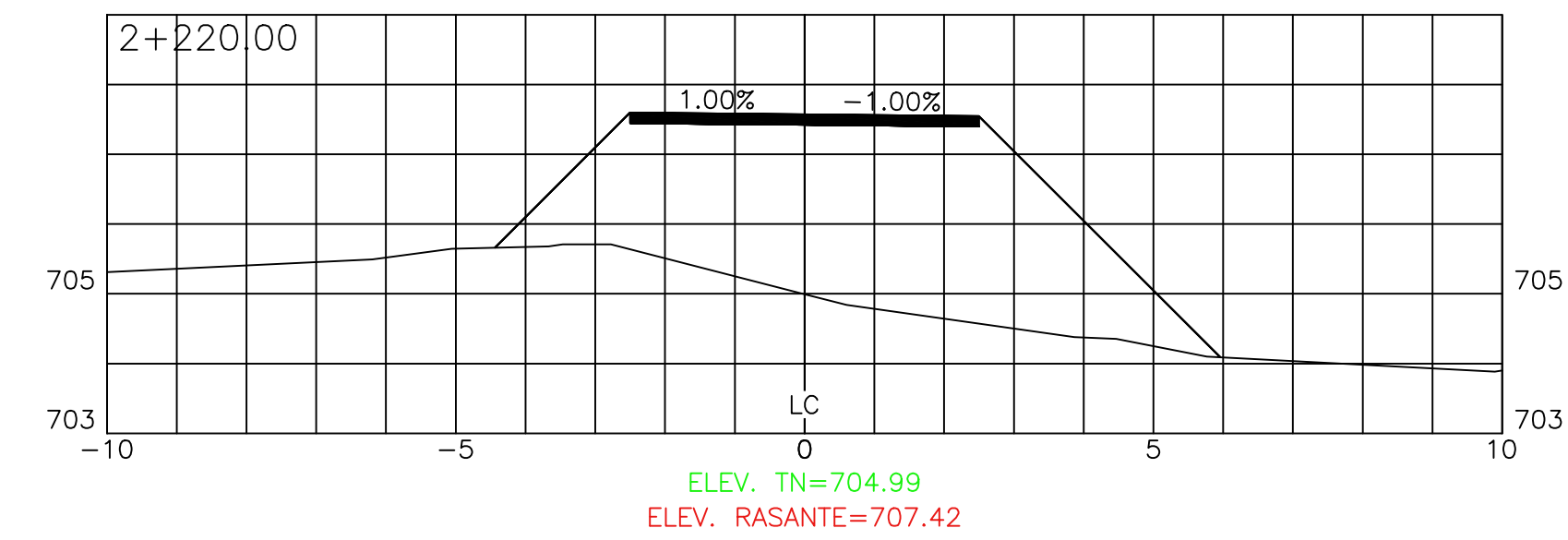
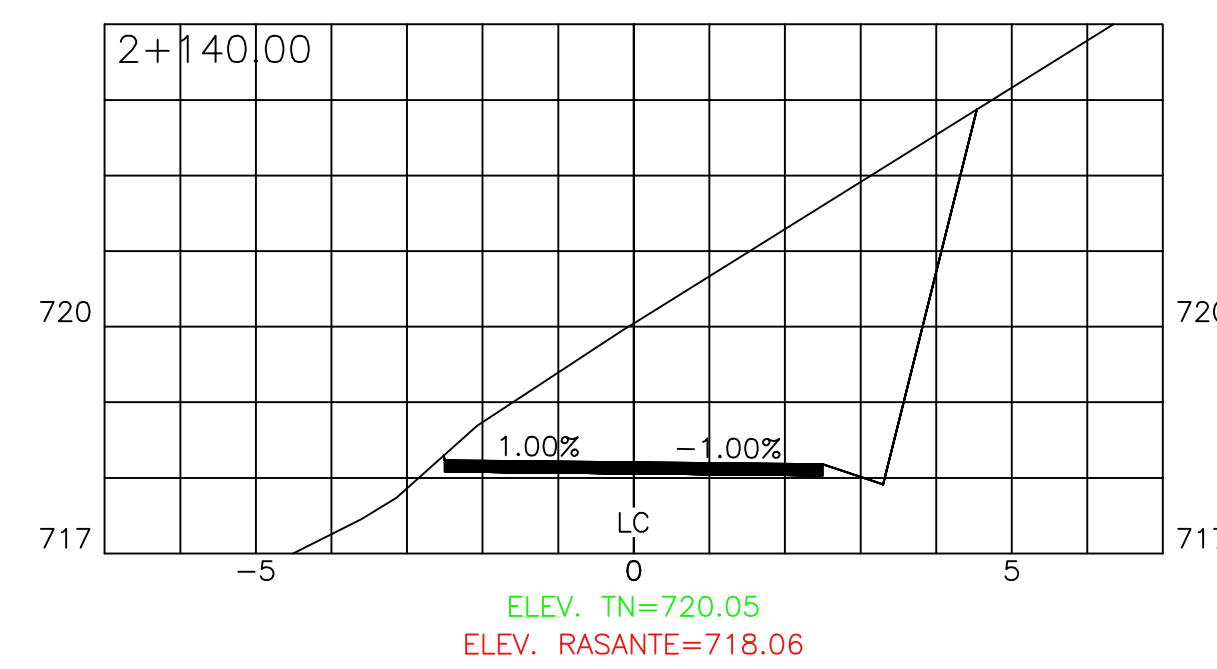
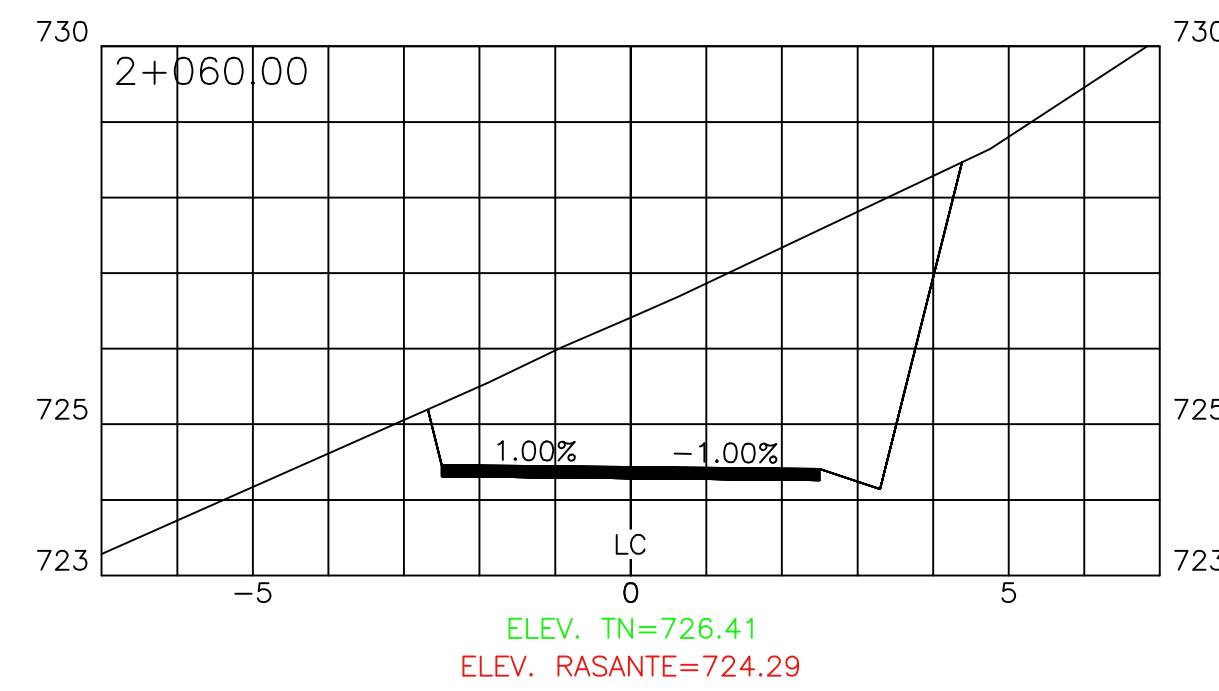
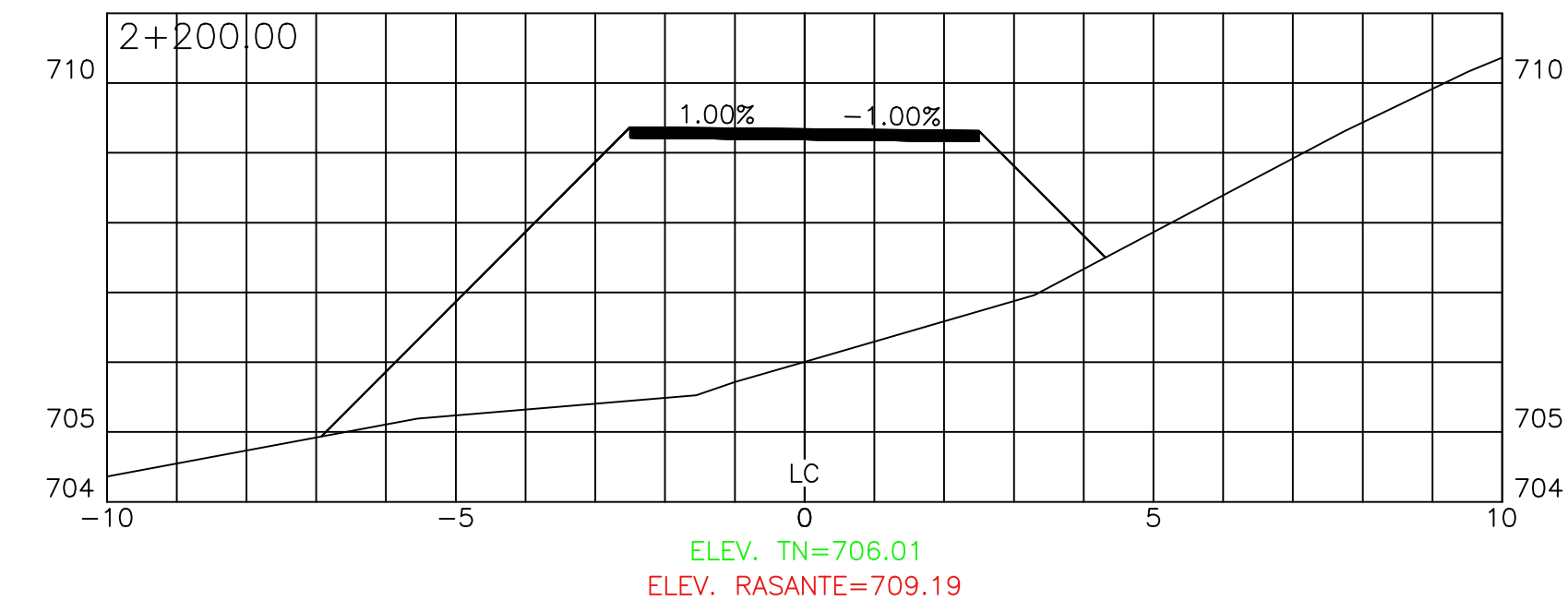
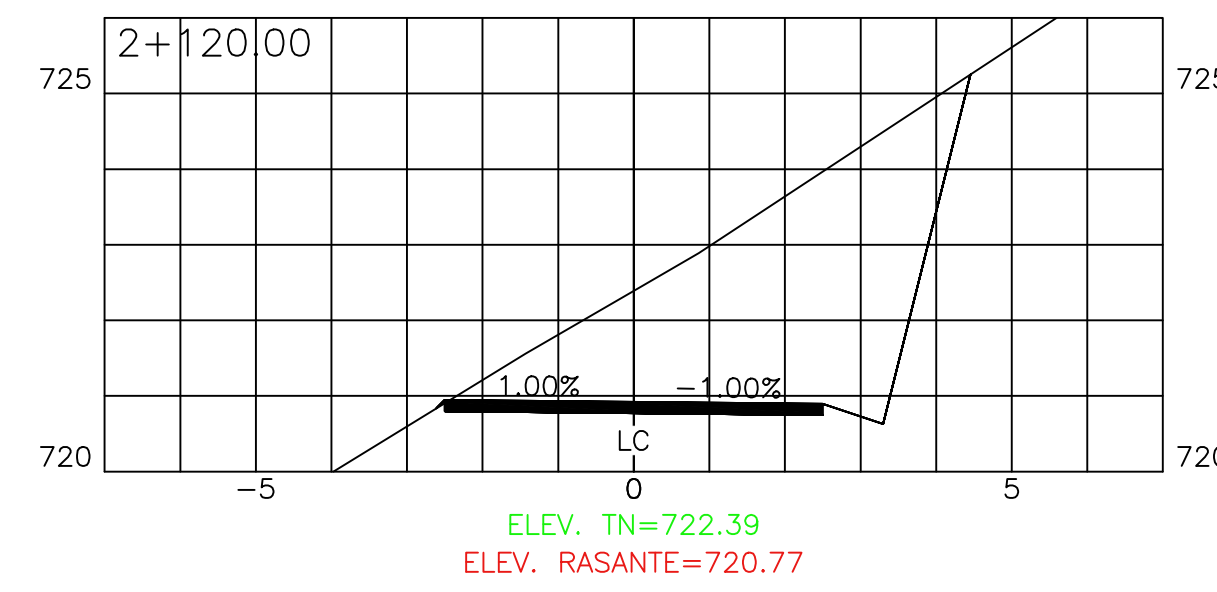
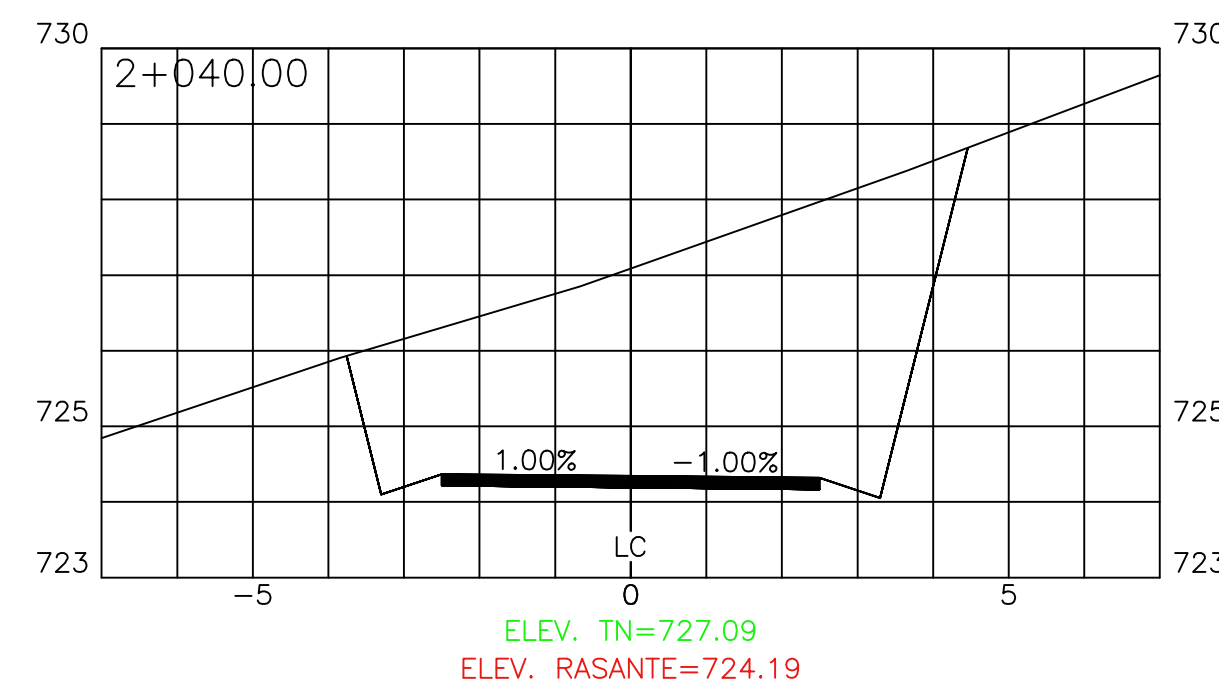
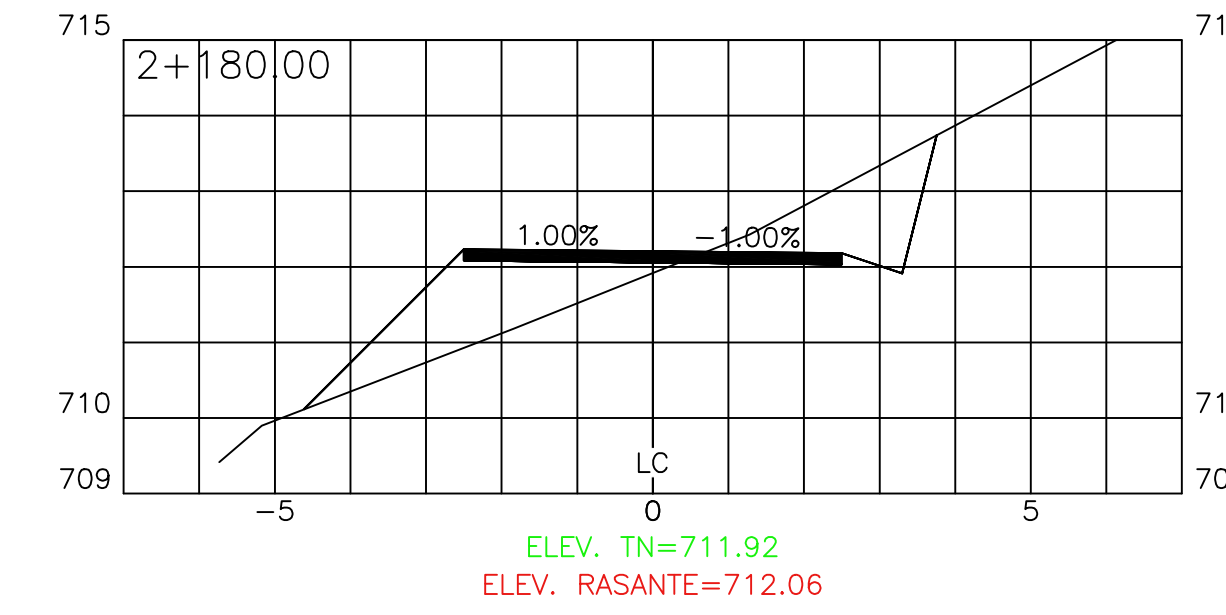
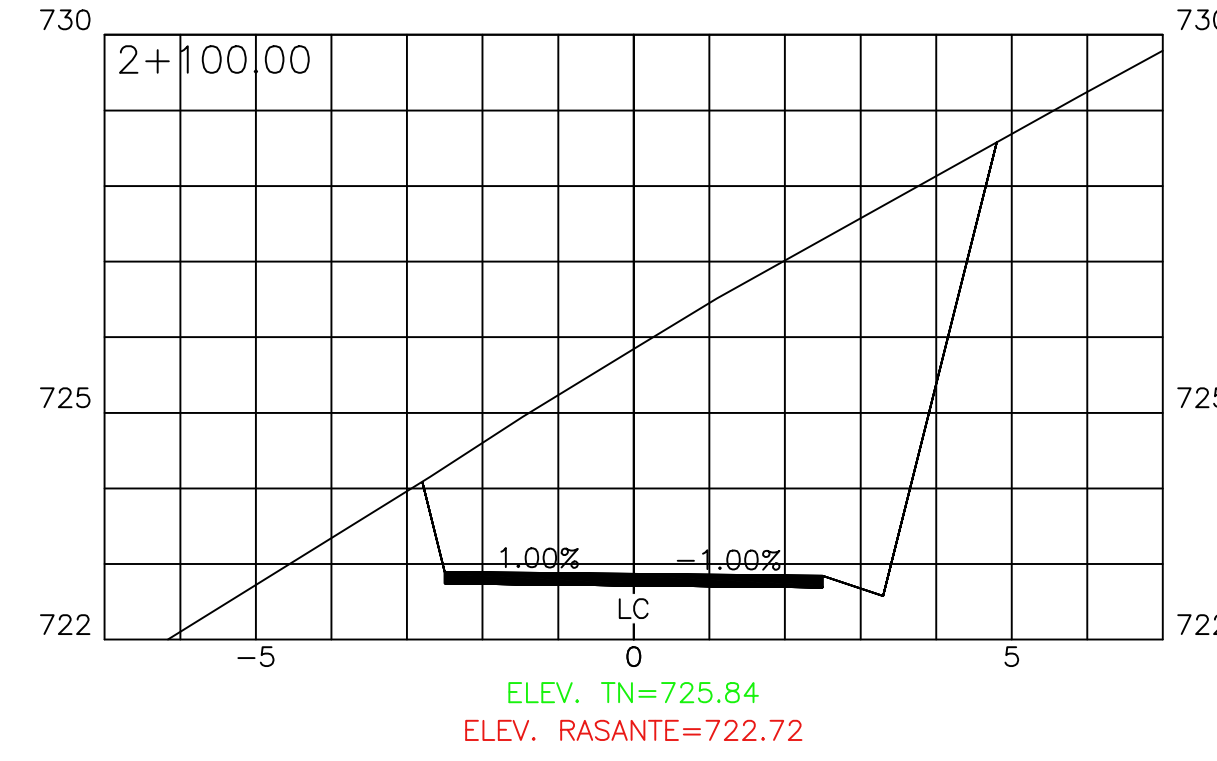
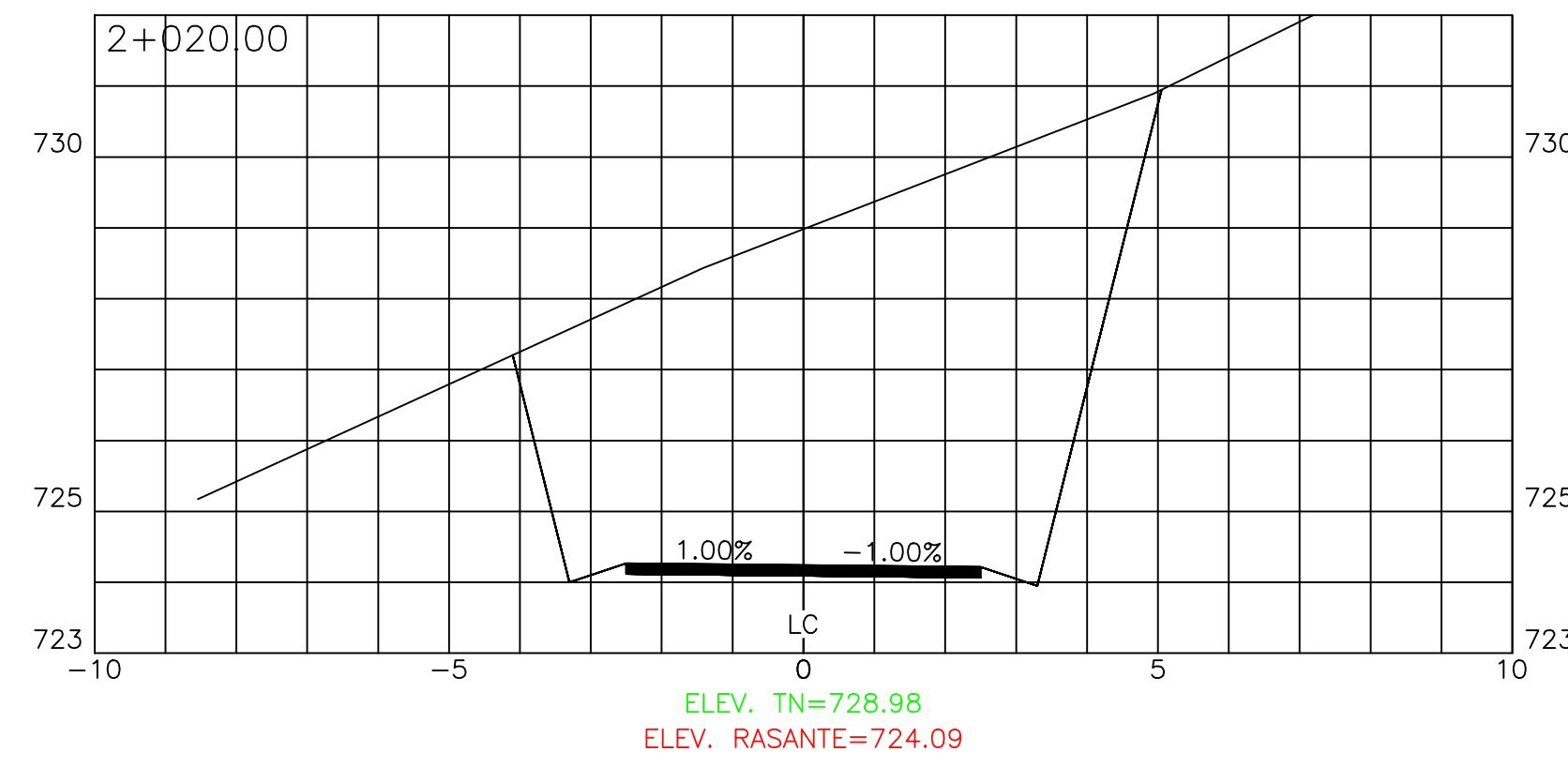
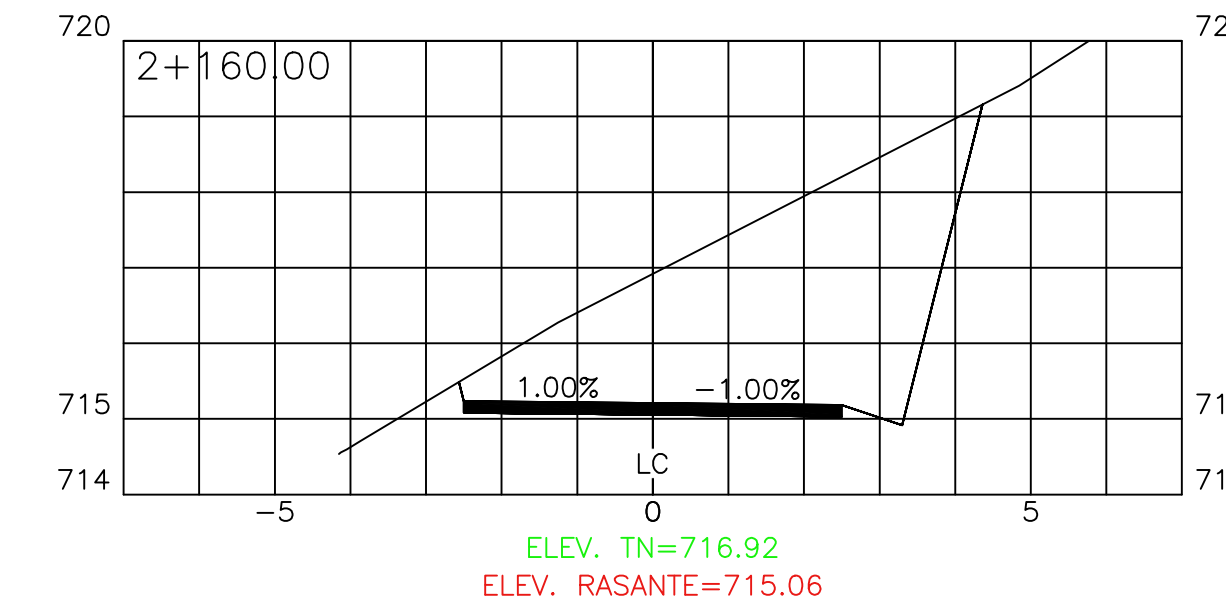
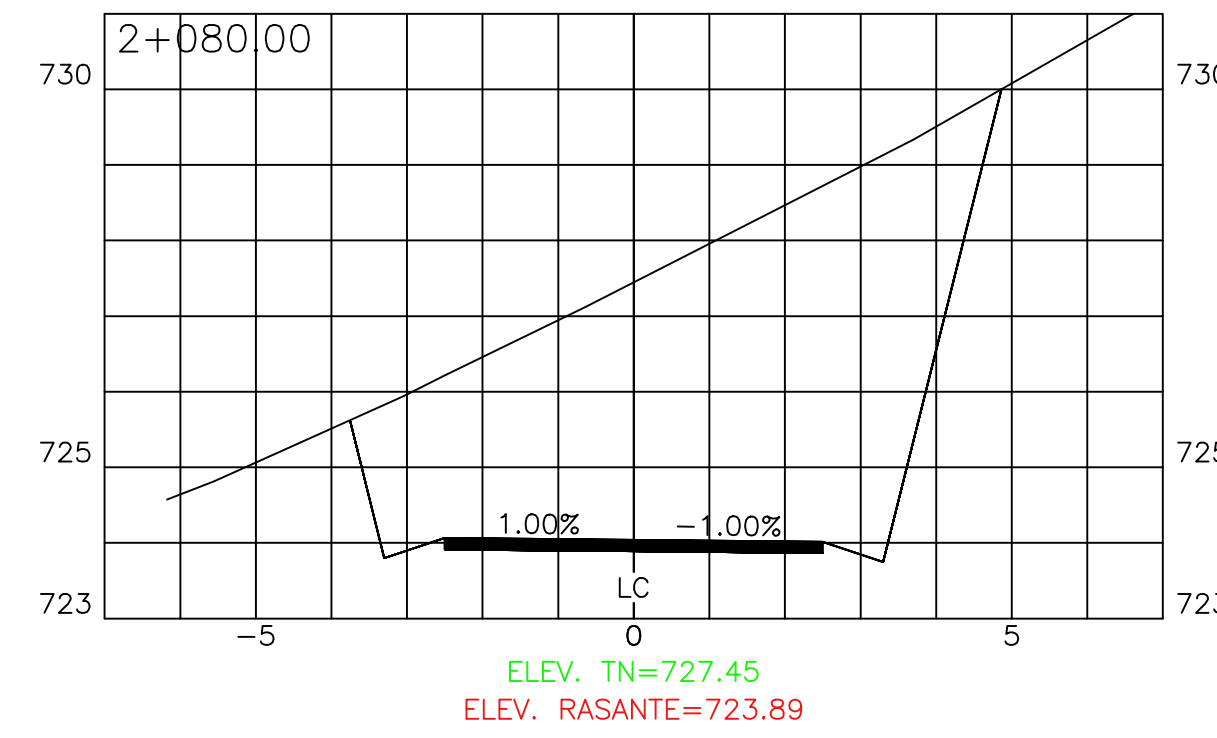
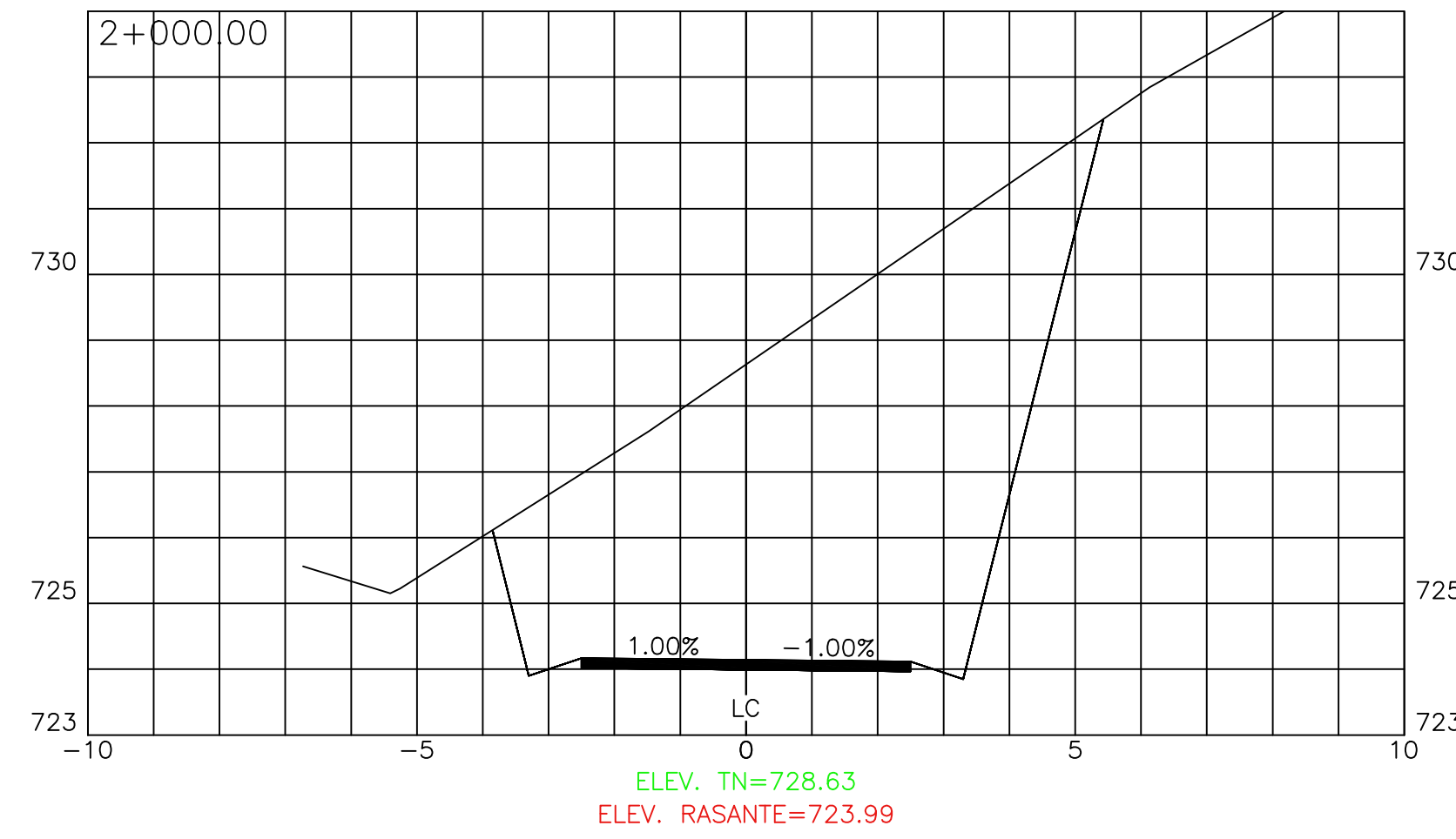
Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028

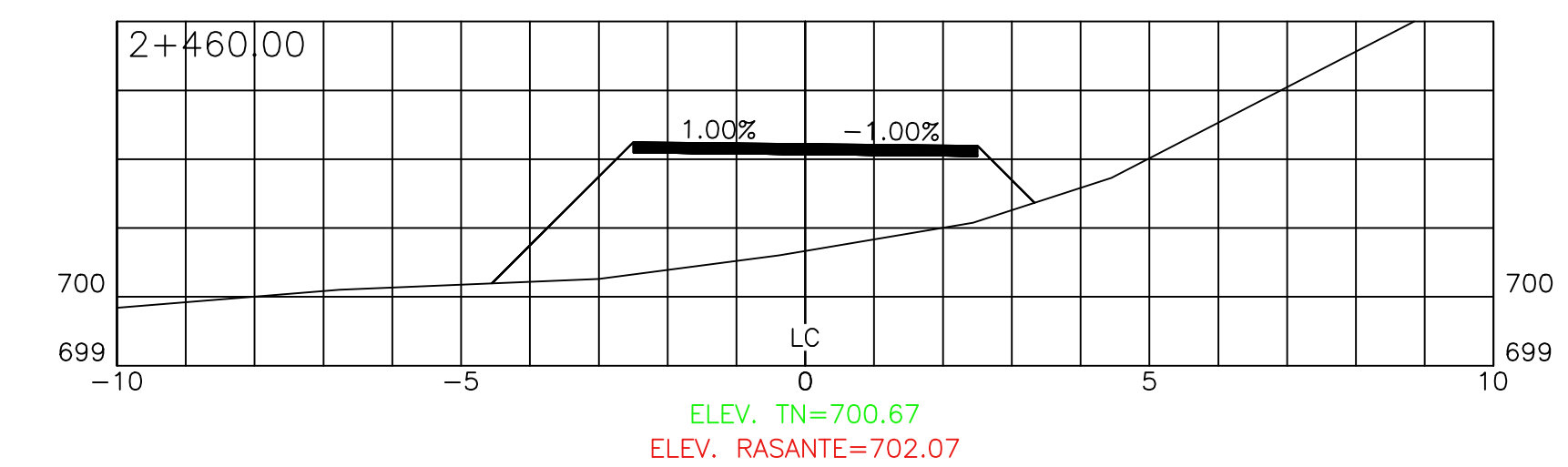
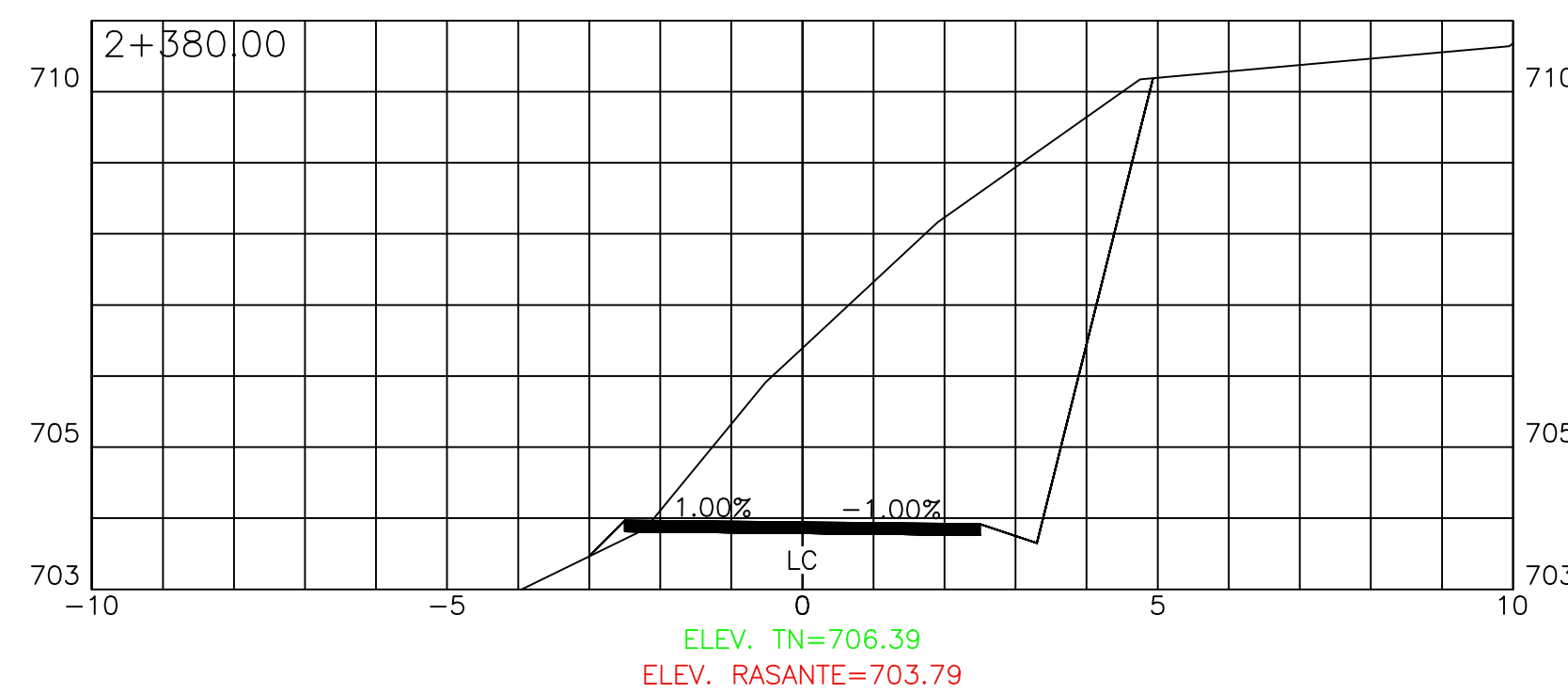
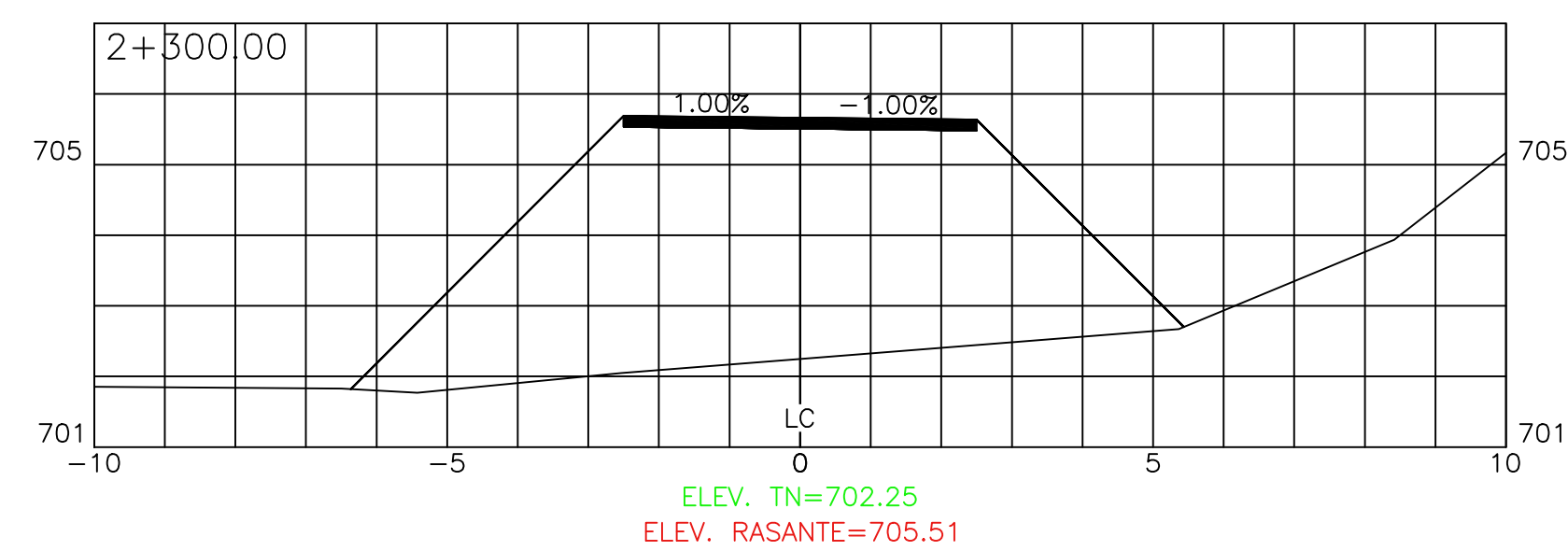
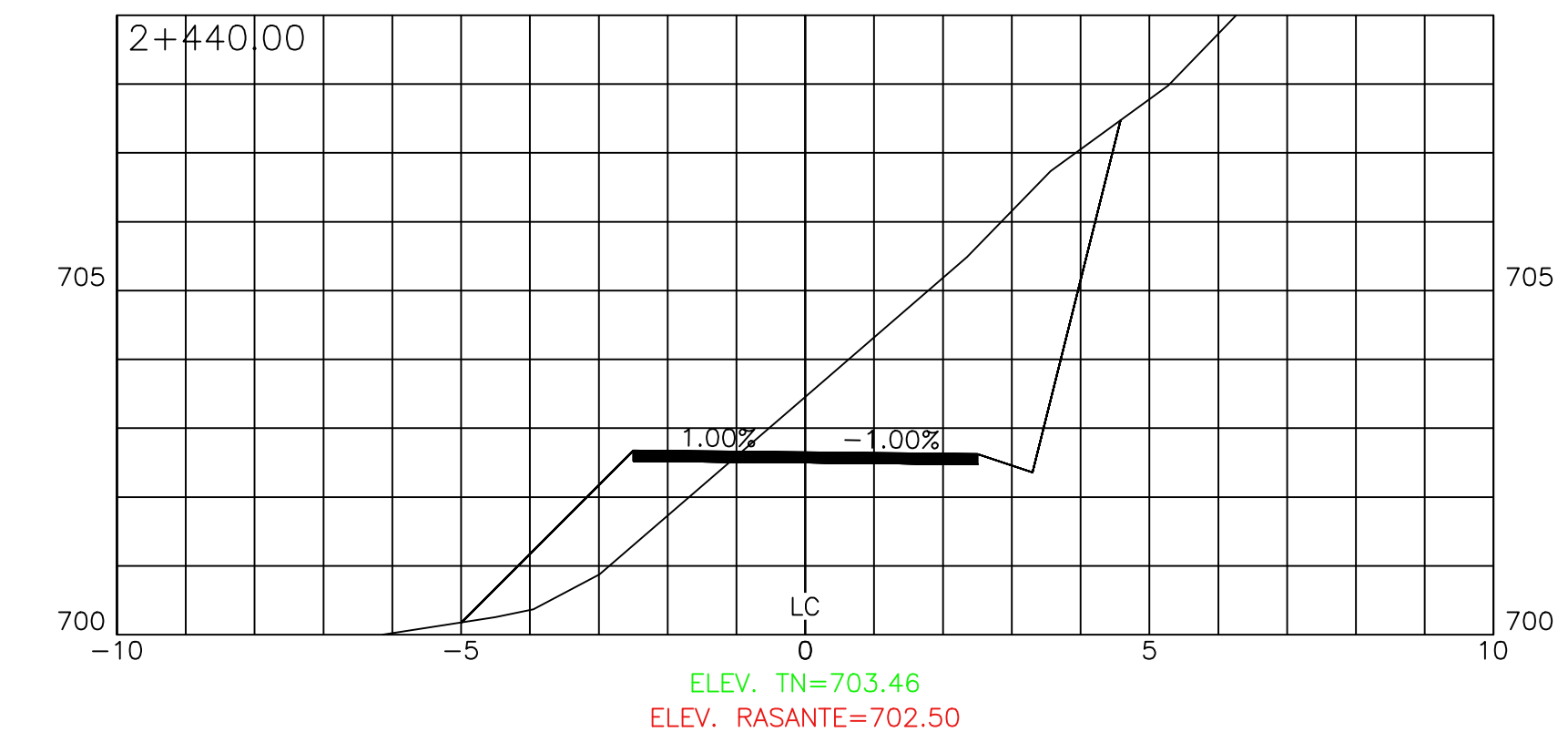
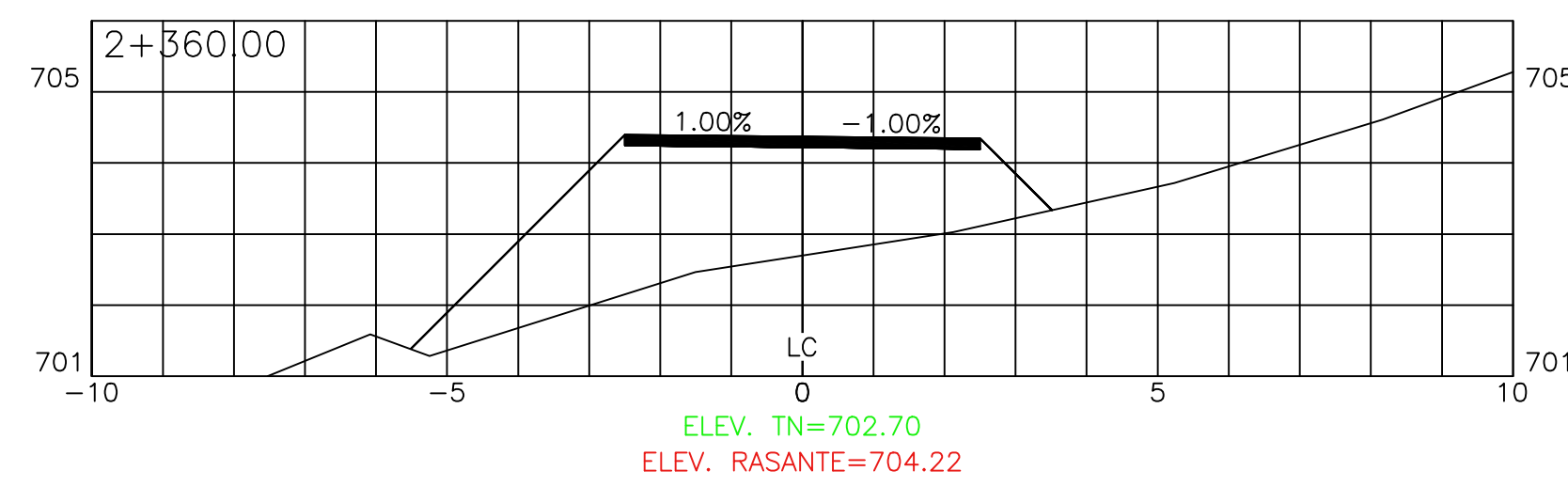
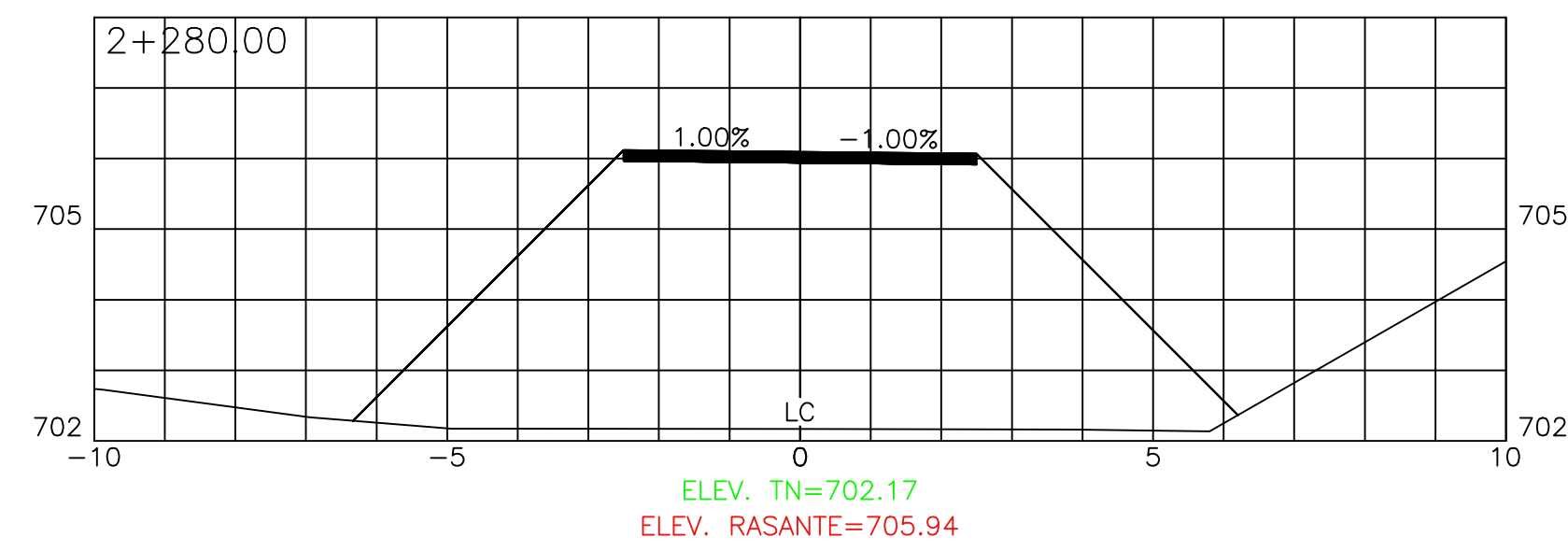
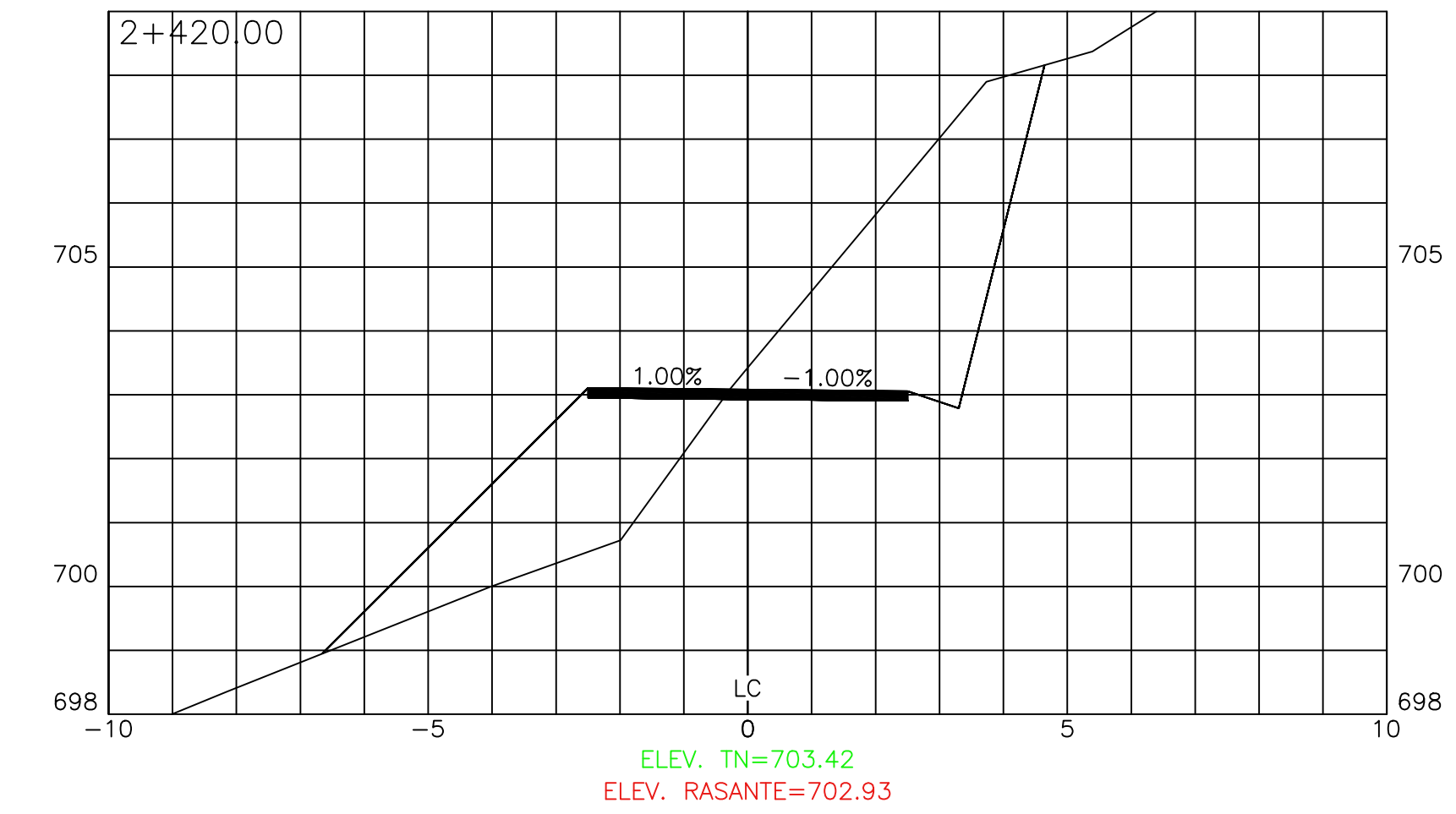
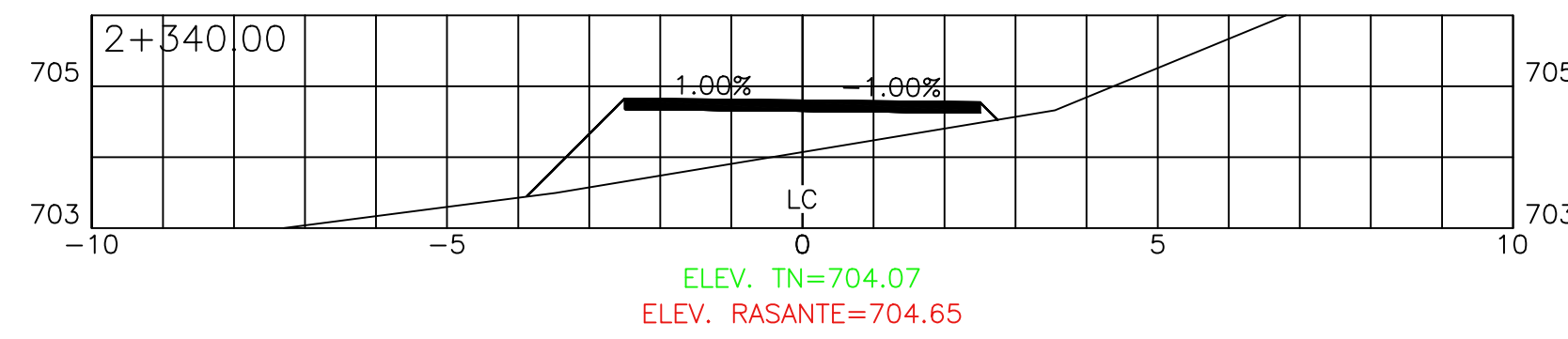
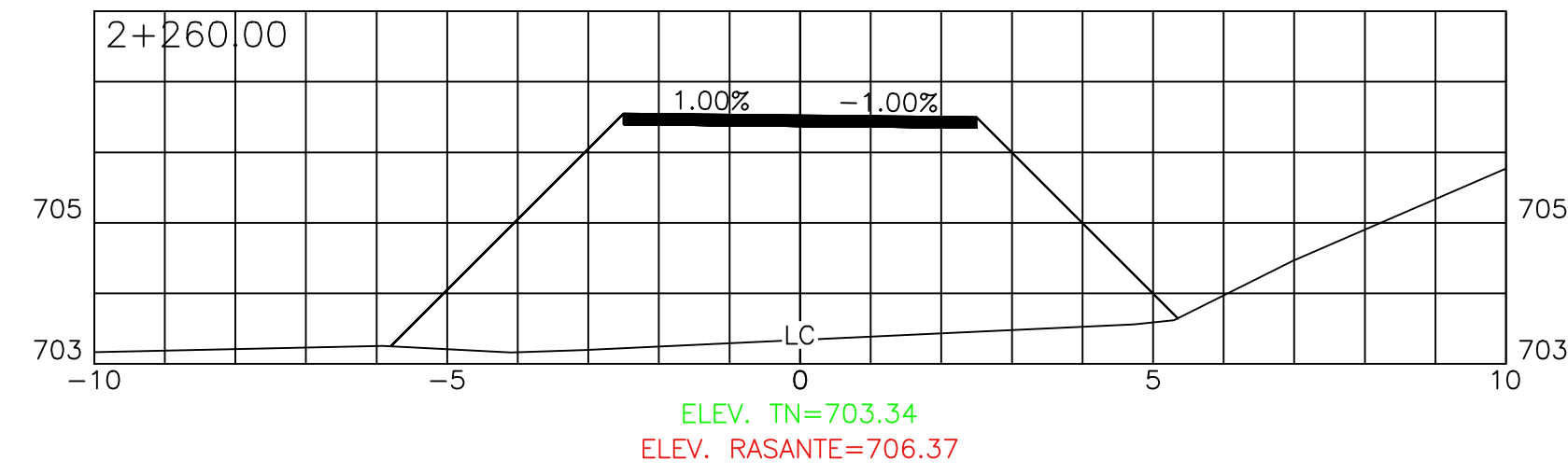
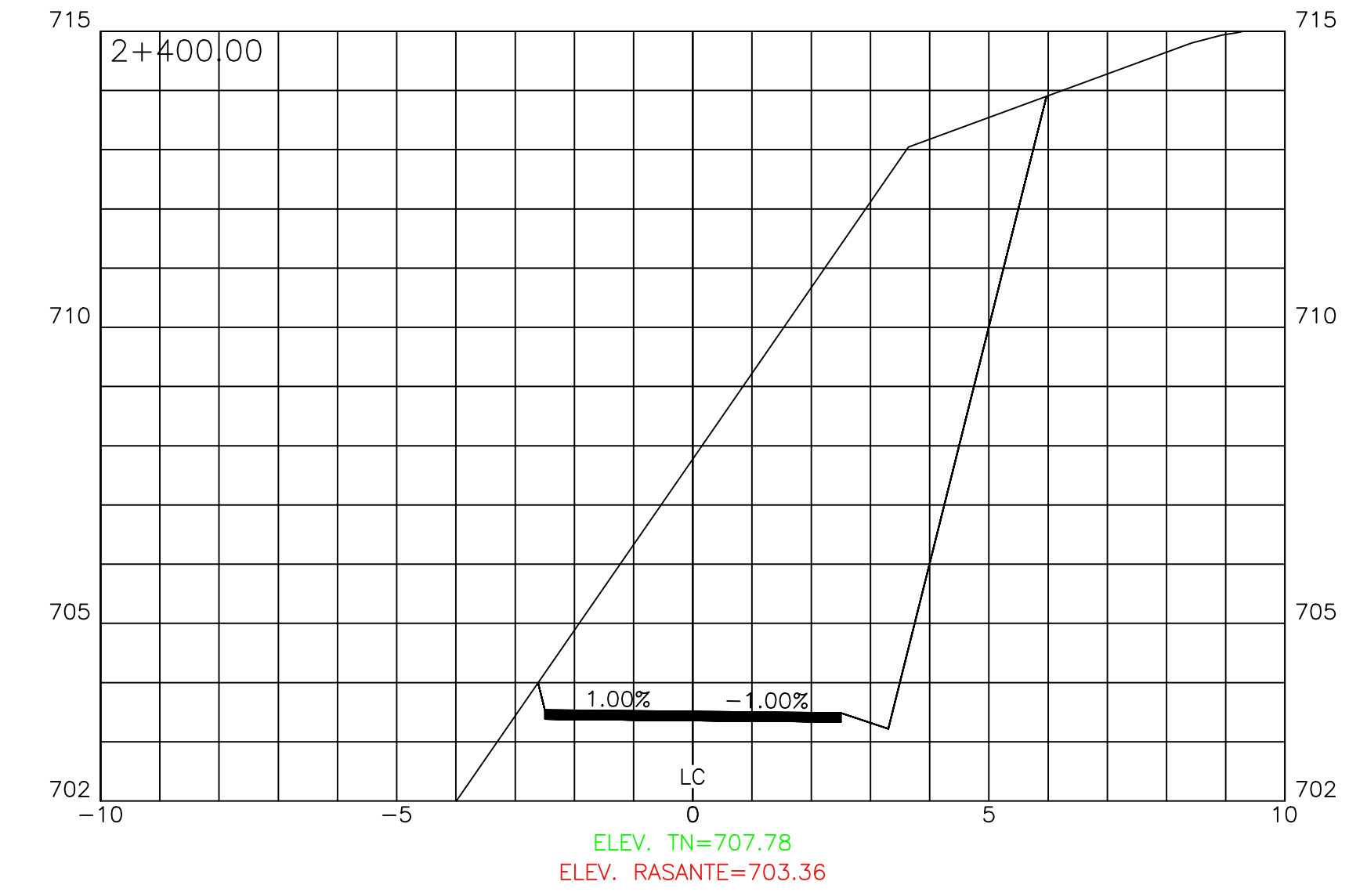
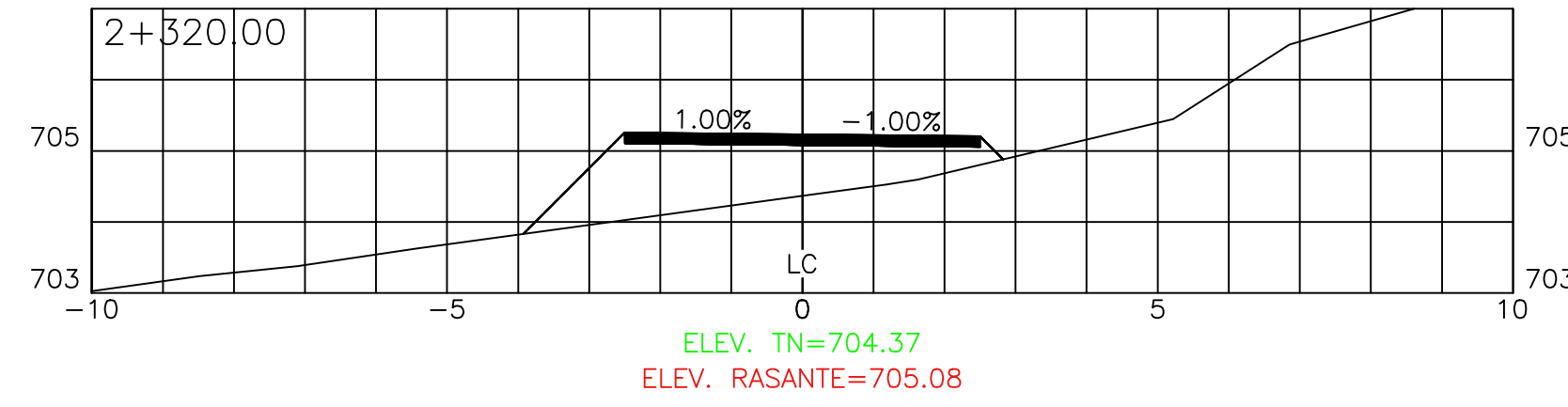
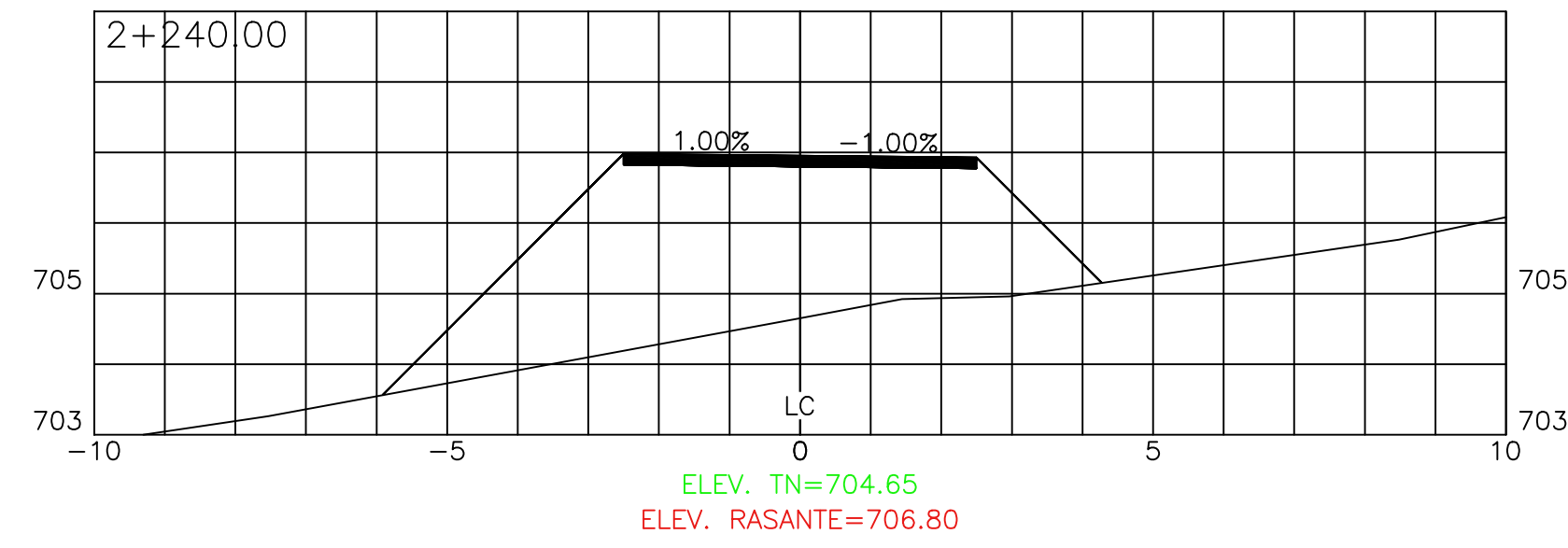




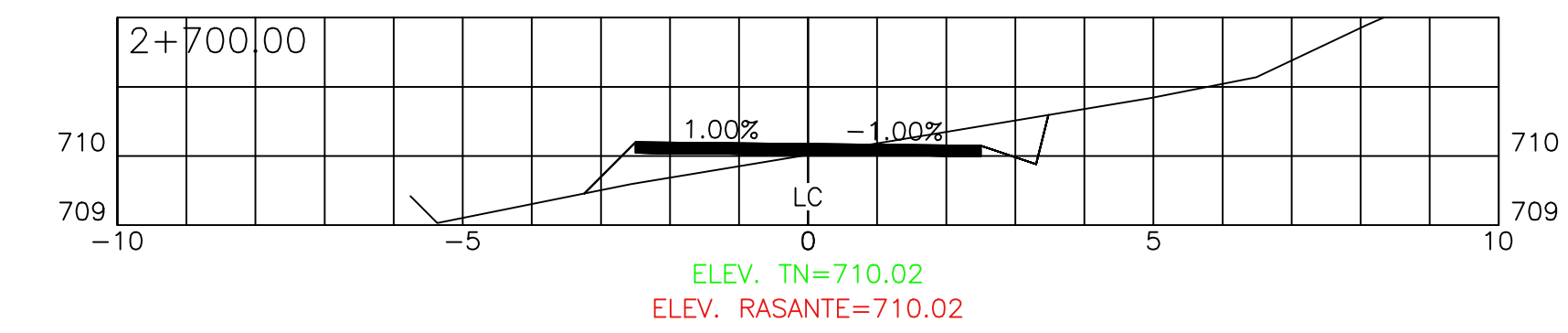
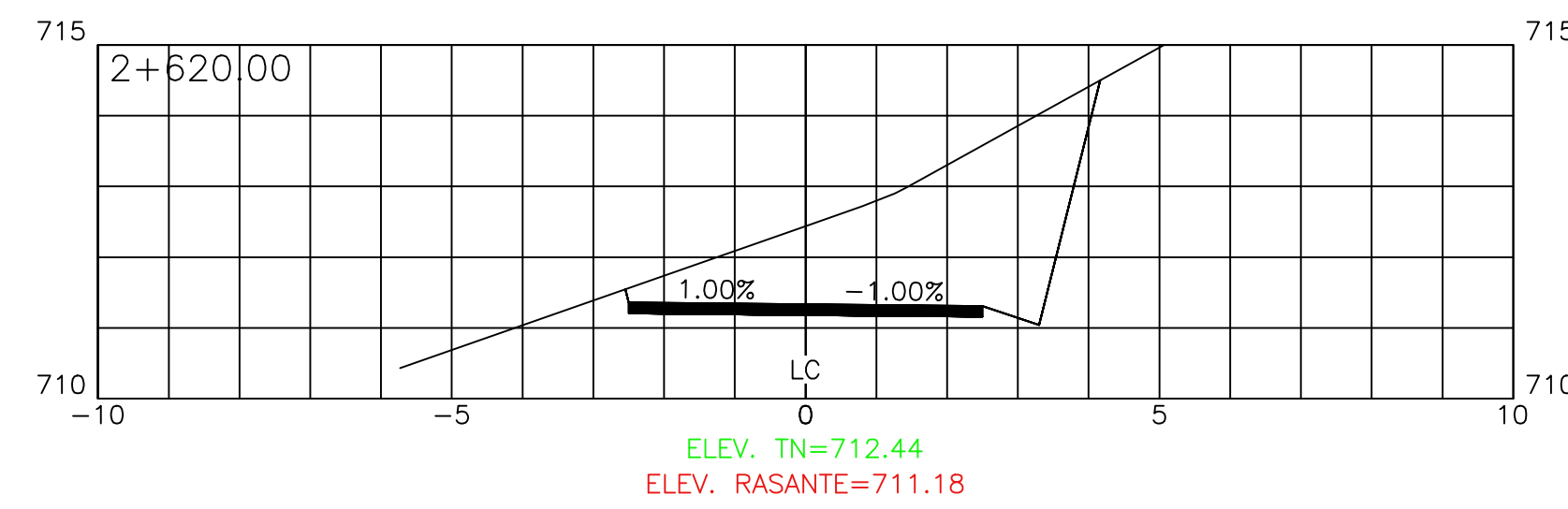
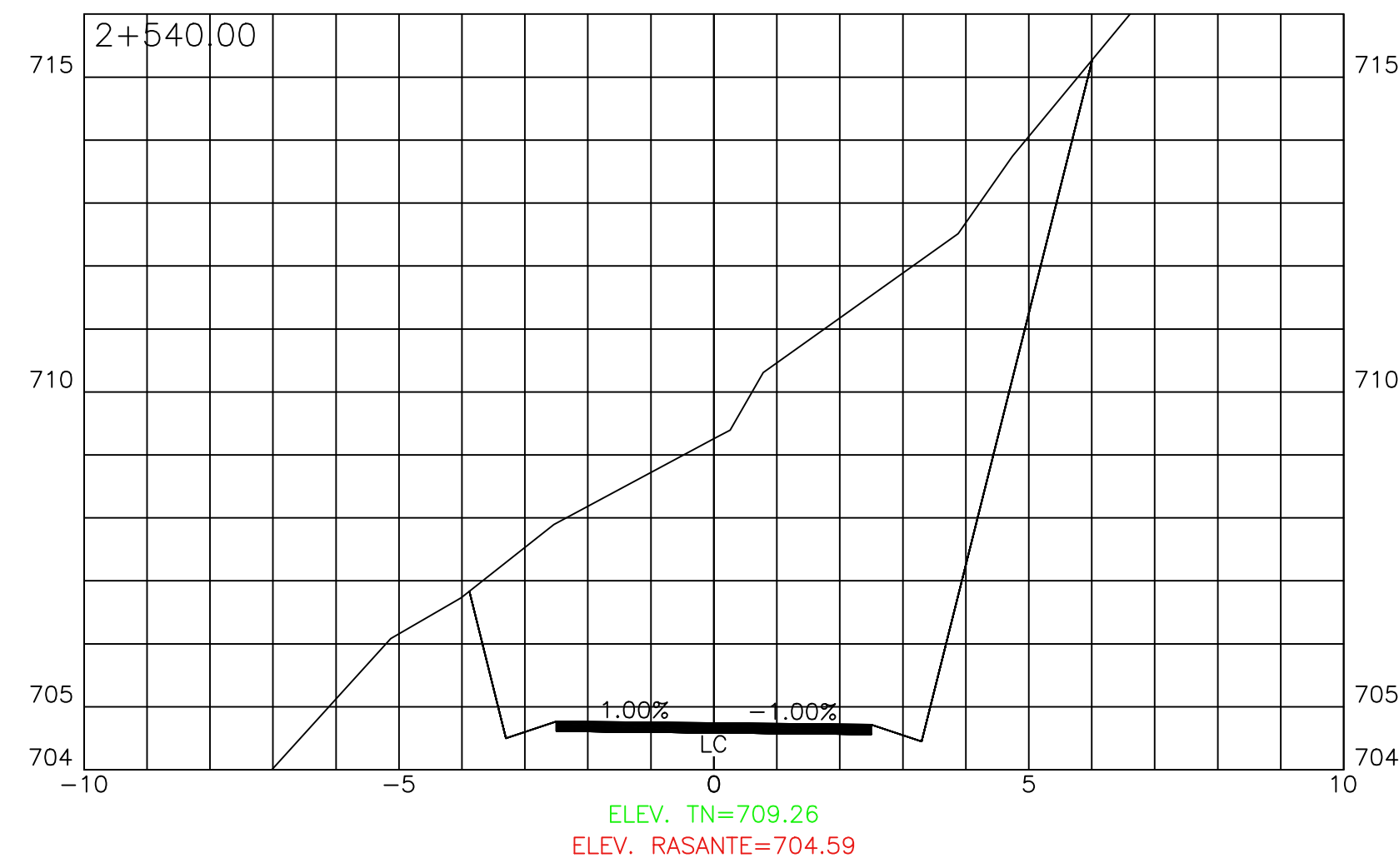
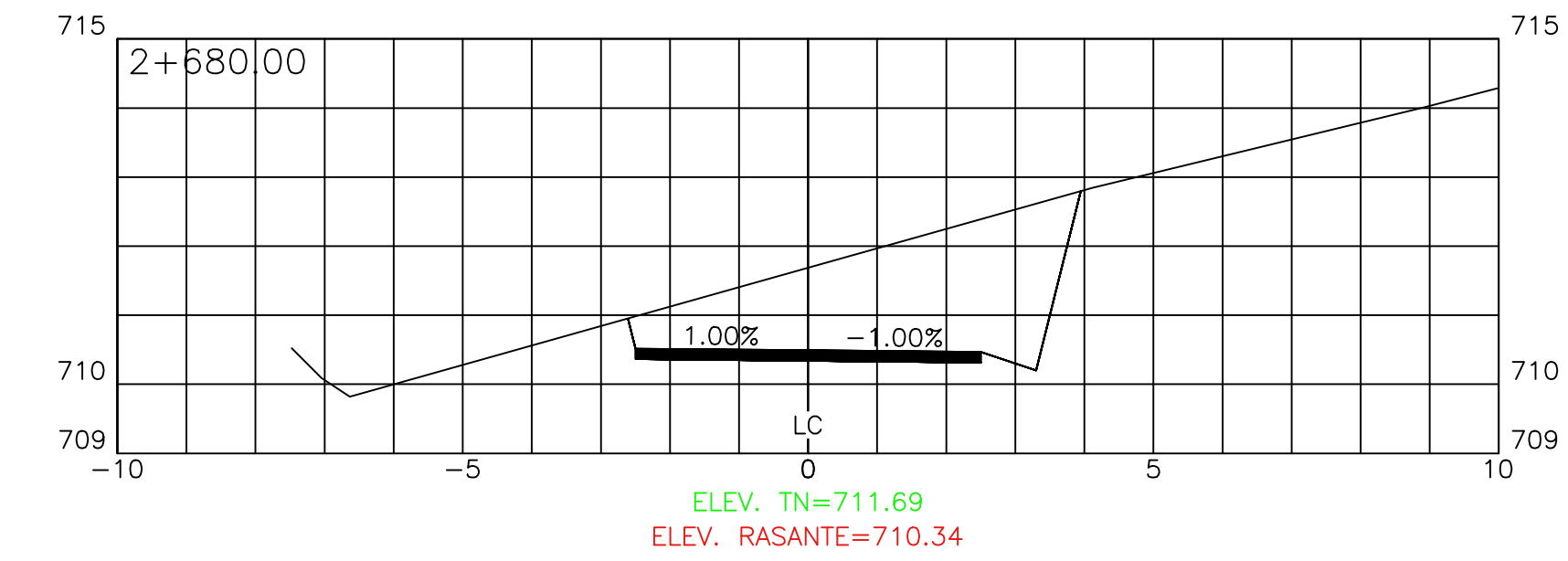
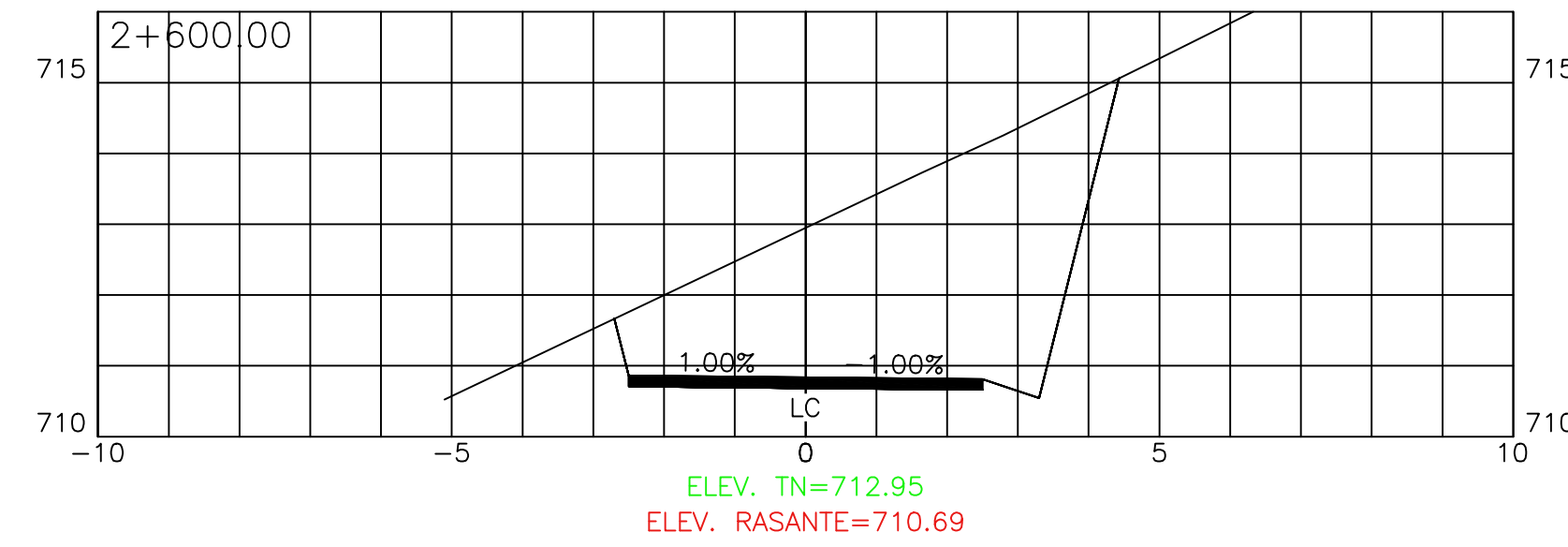
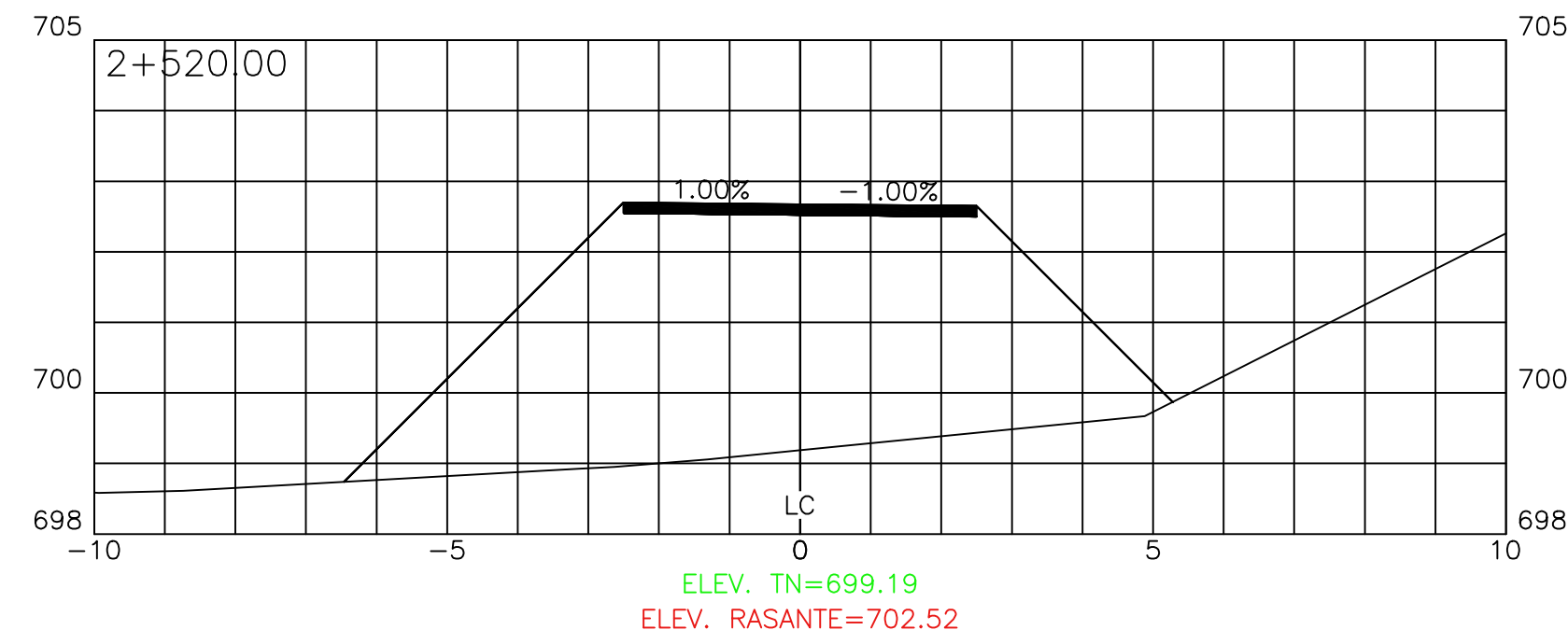
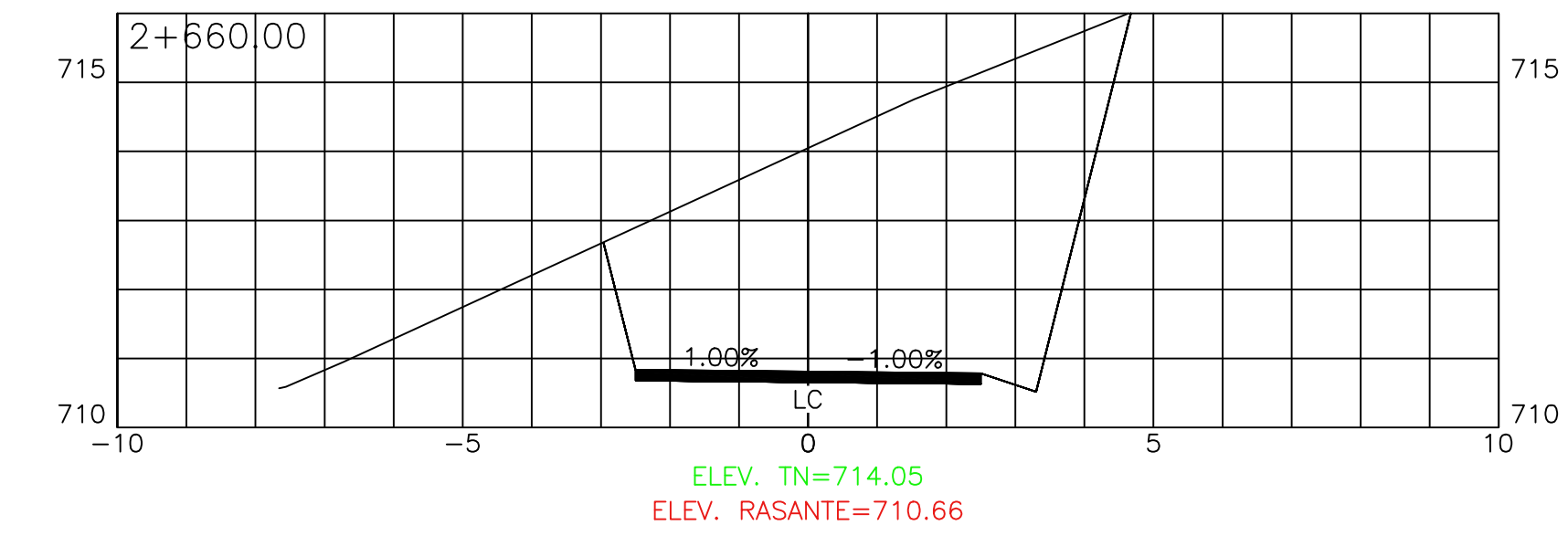
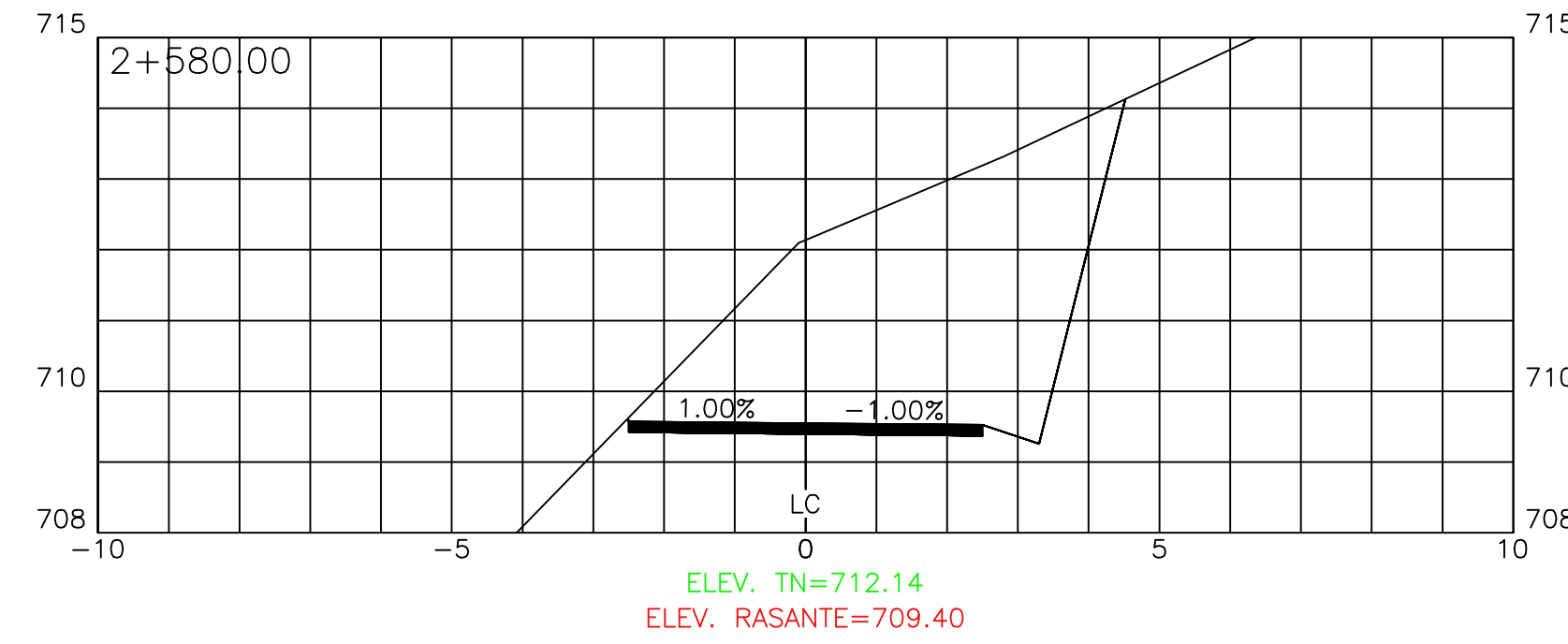
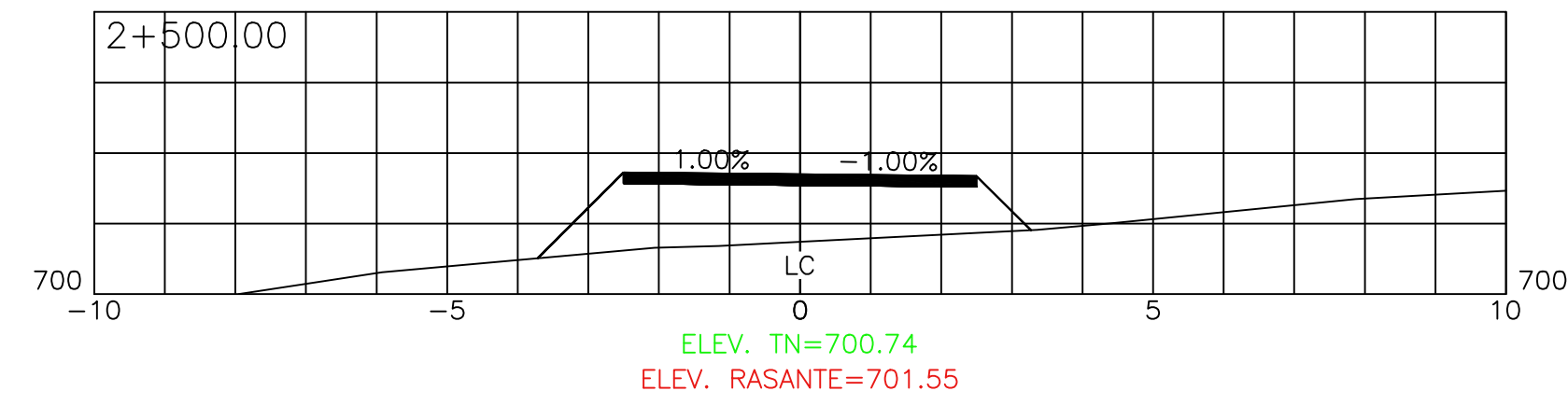
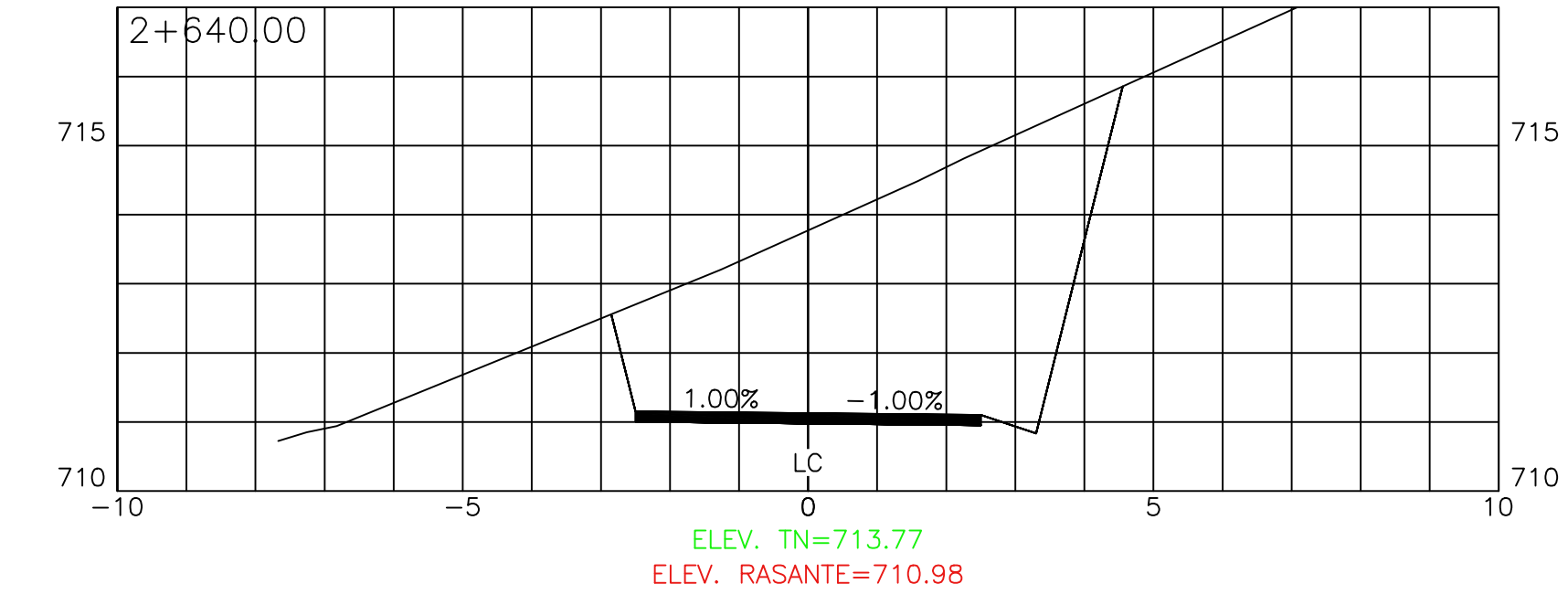
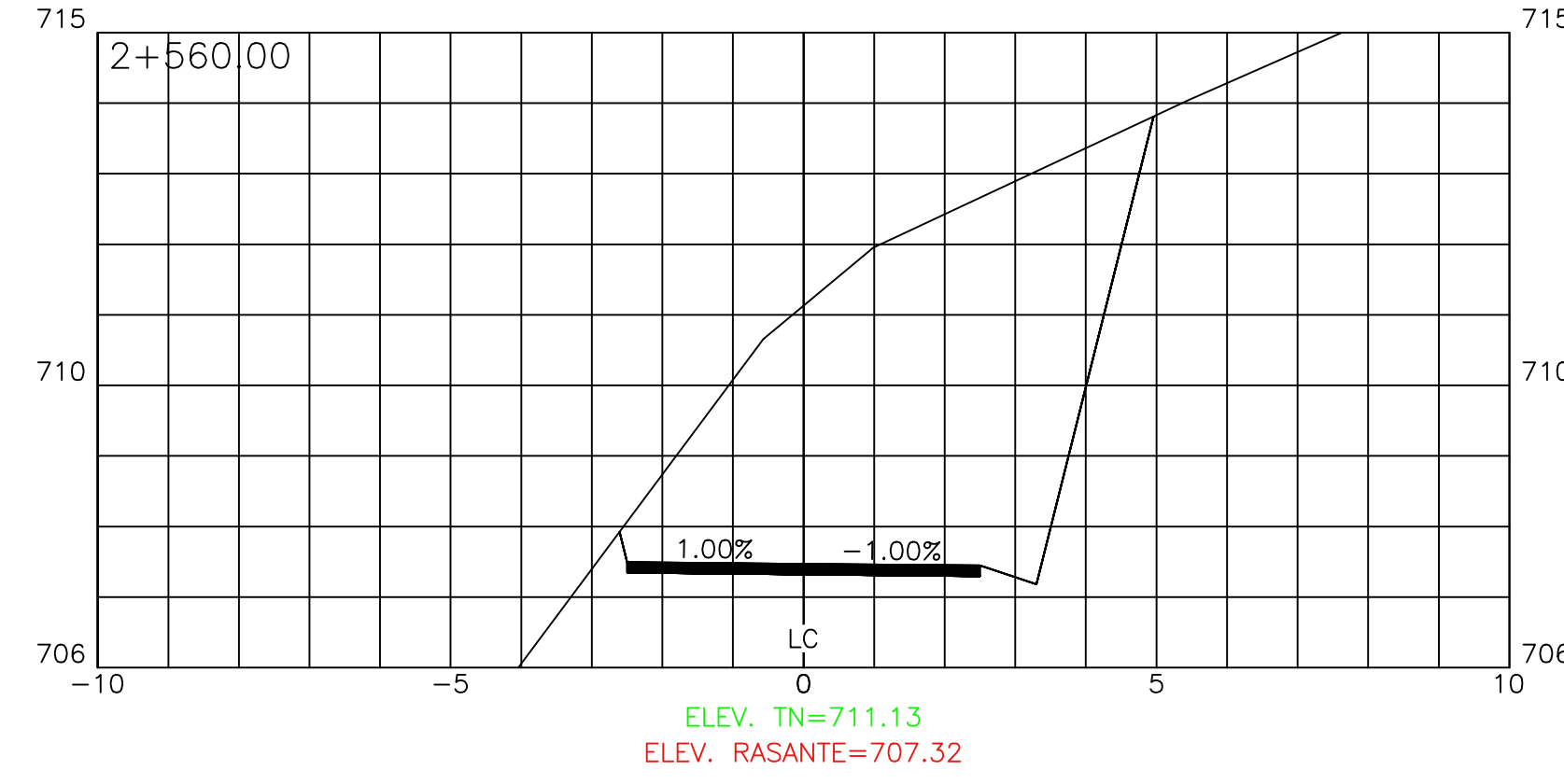
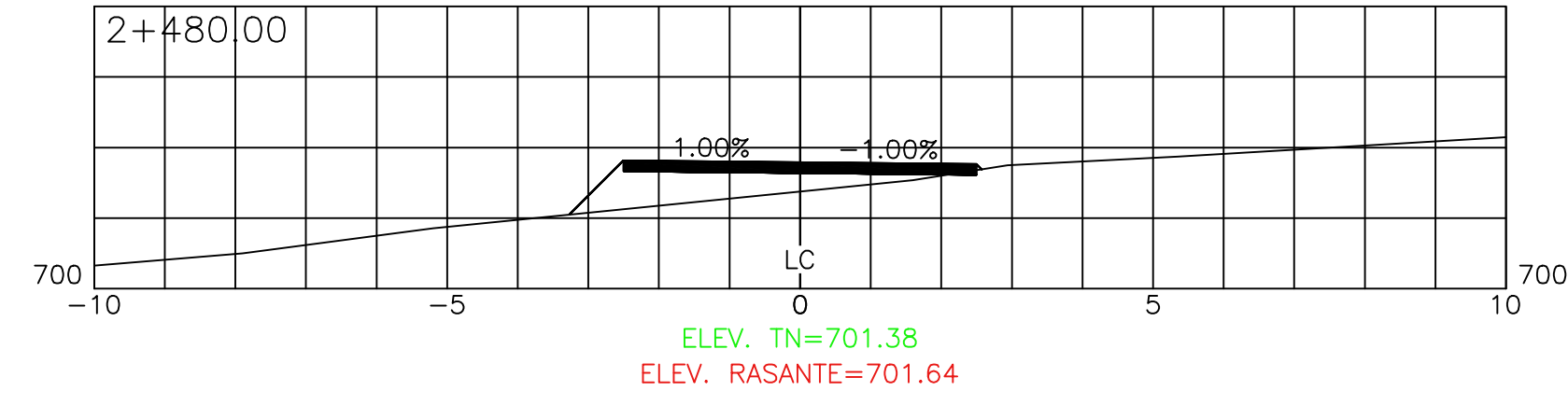


Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUEL CONDE CUEVAS	CICH 4028

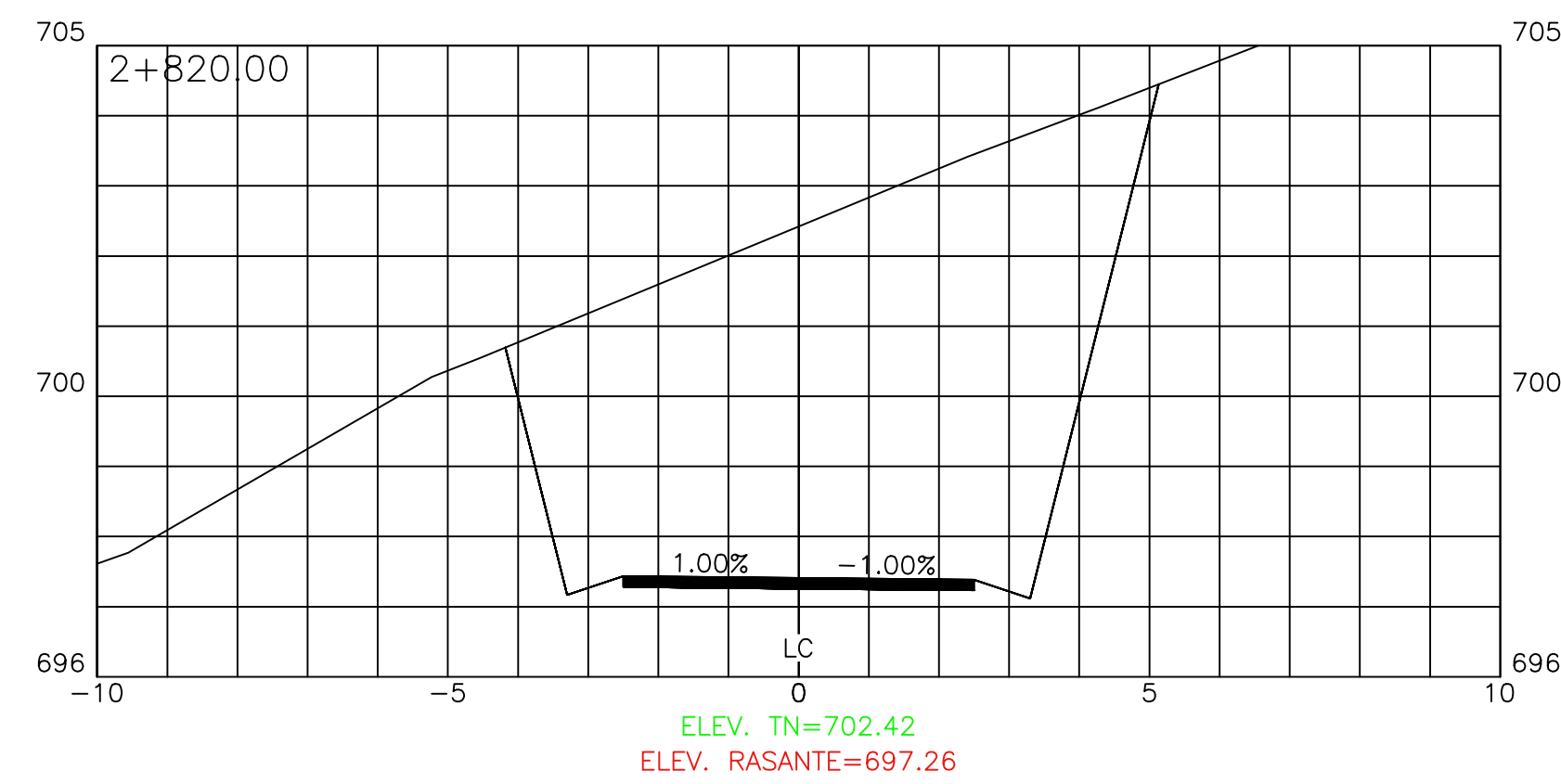
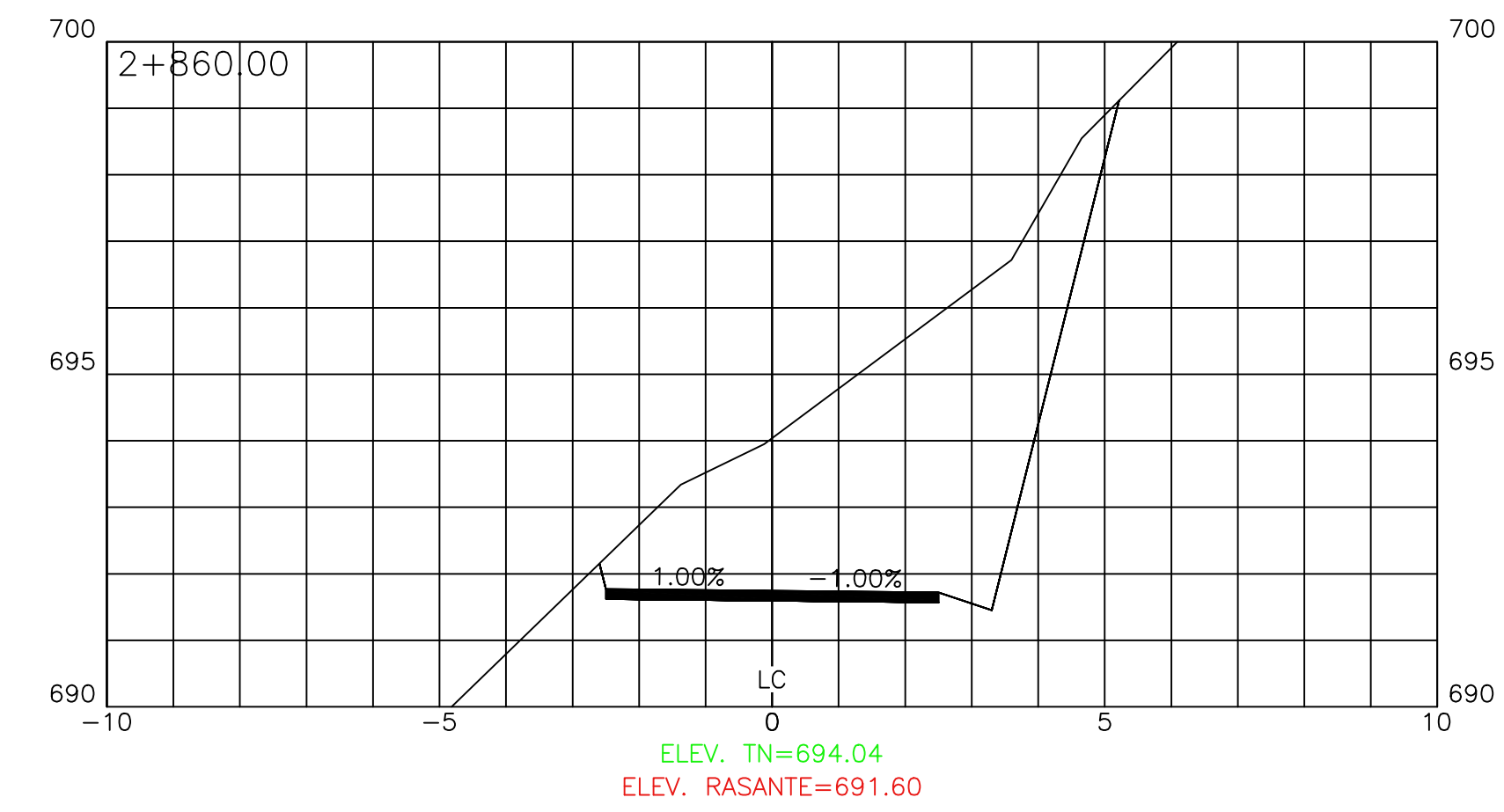
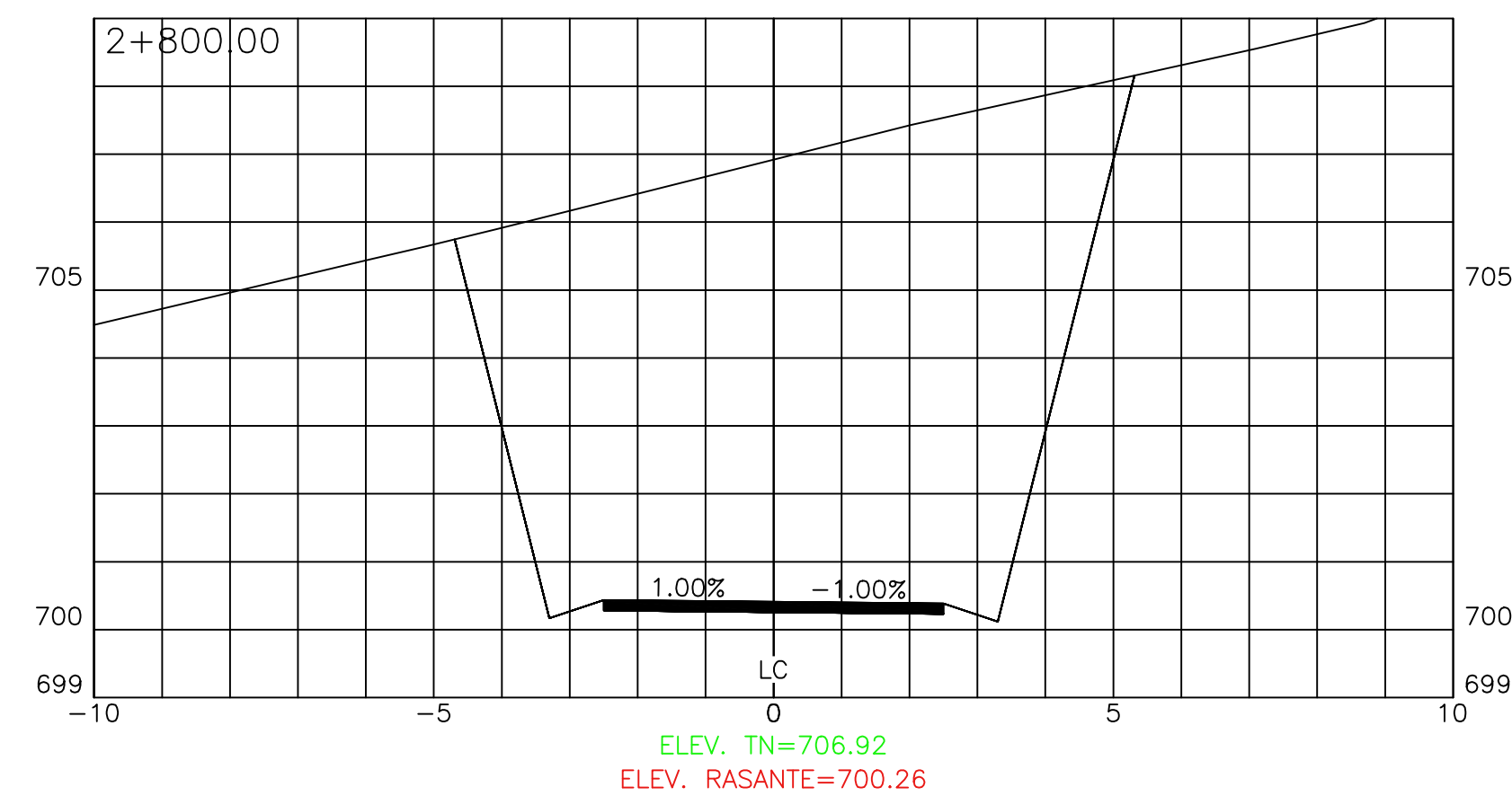
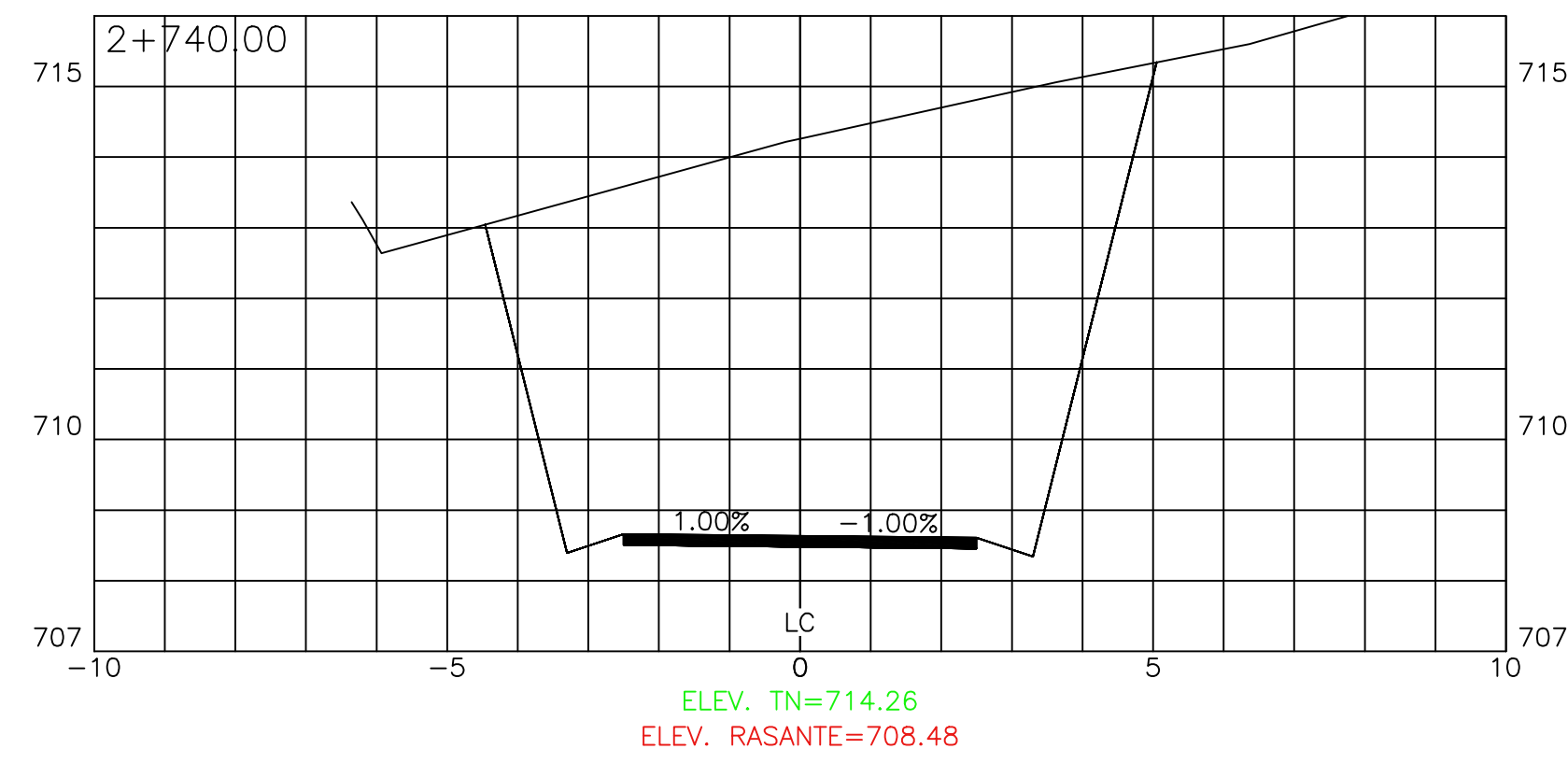
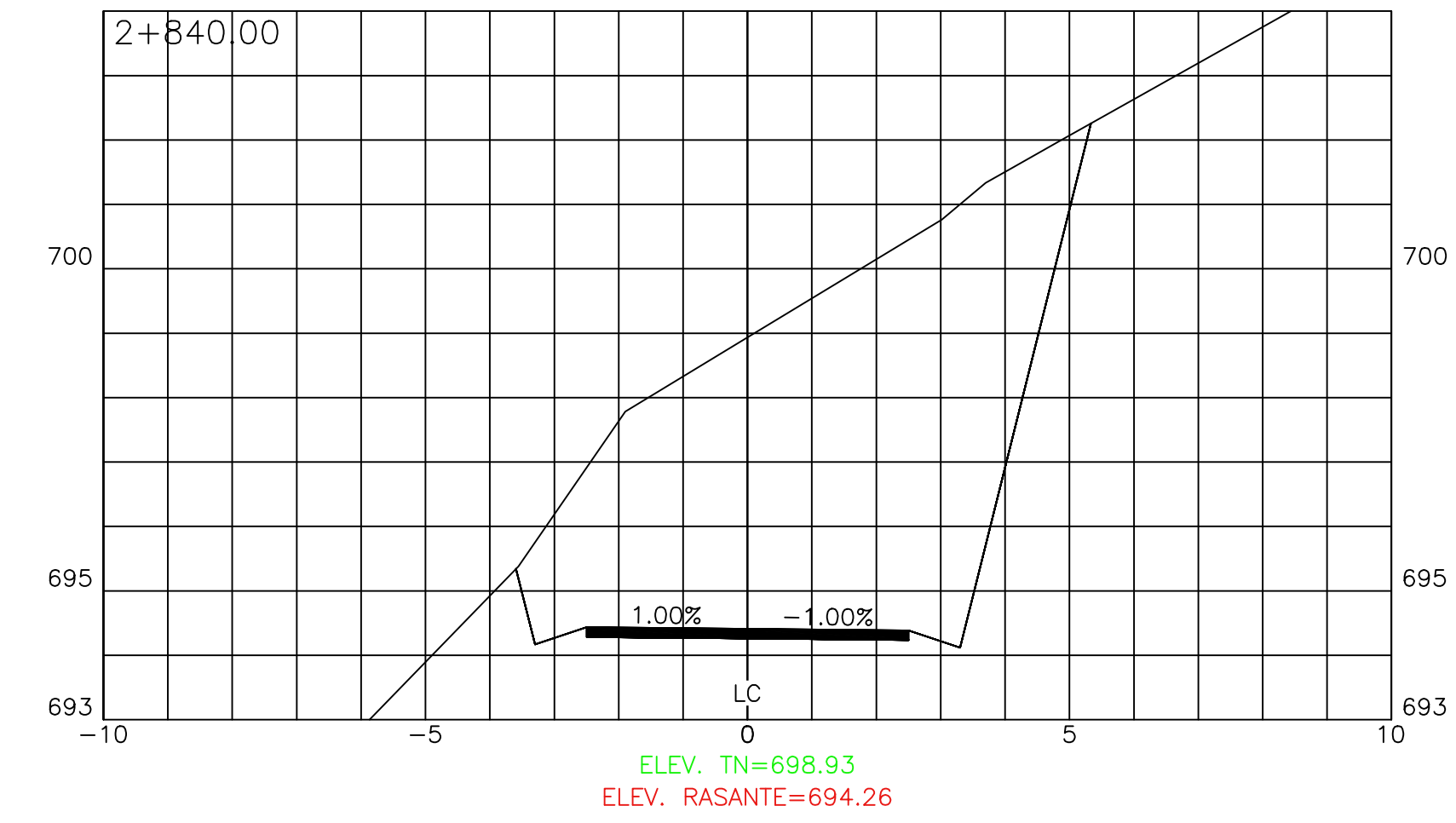
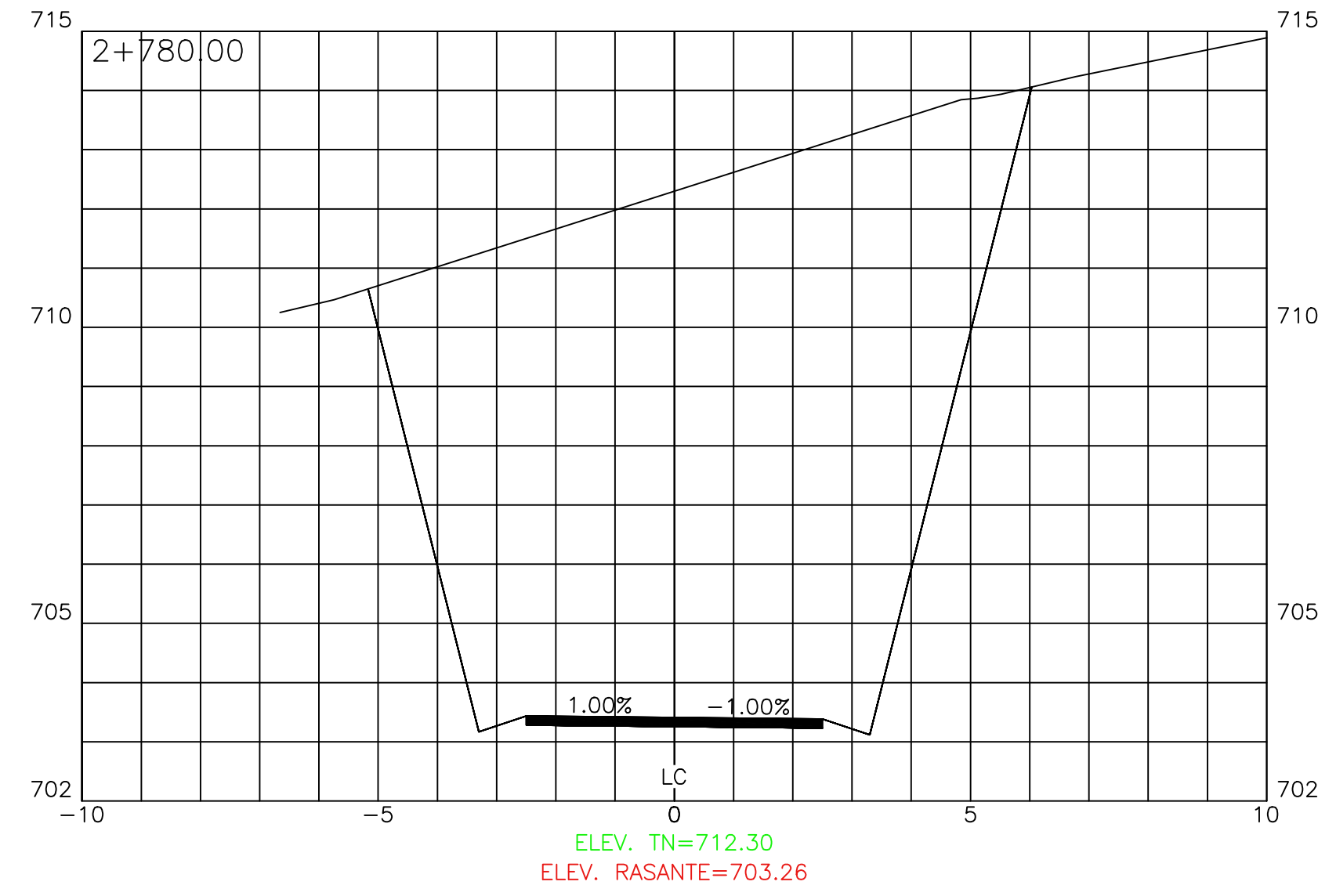
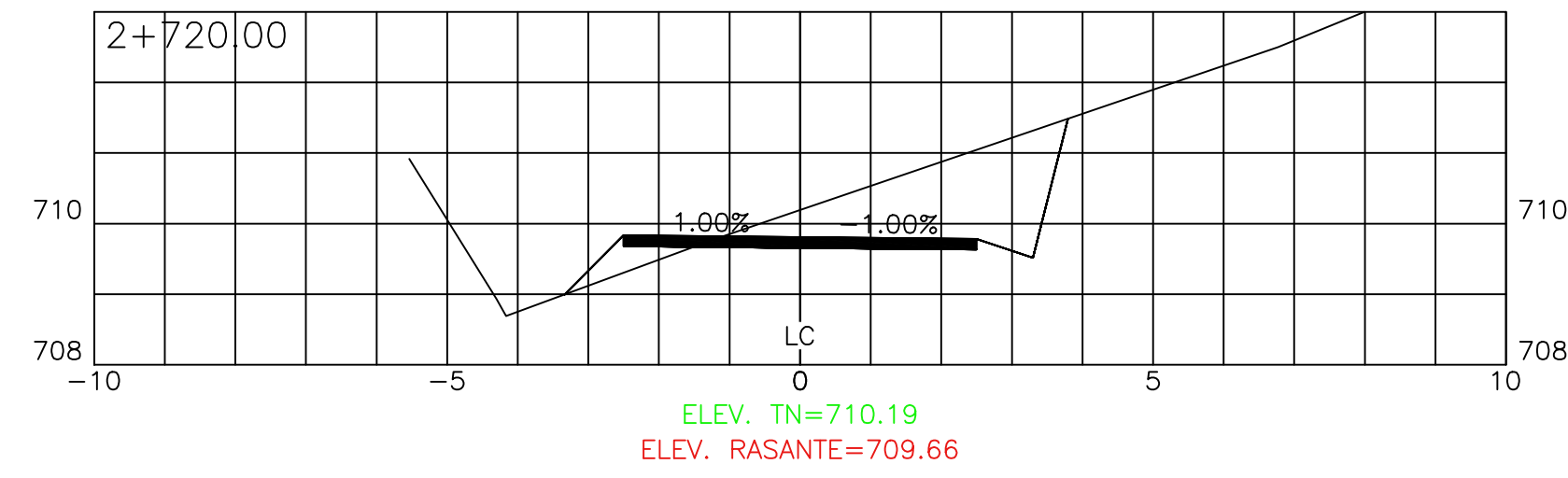


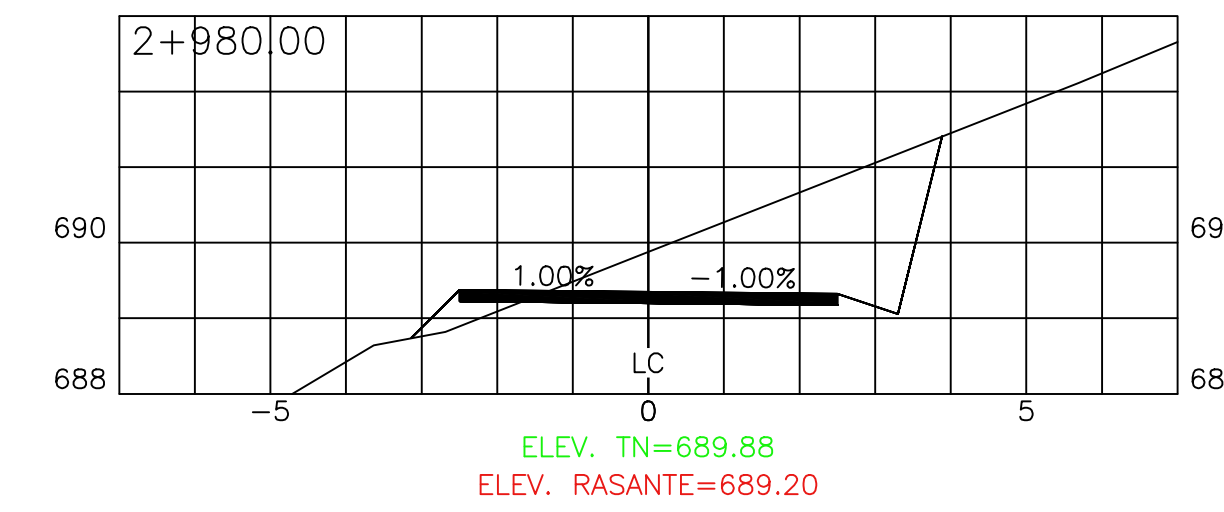
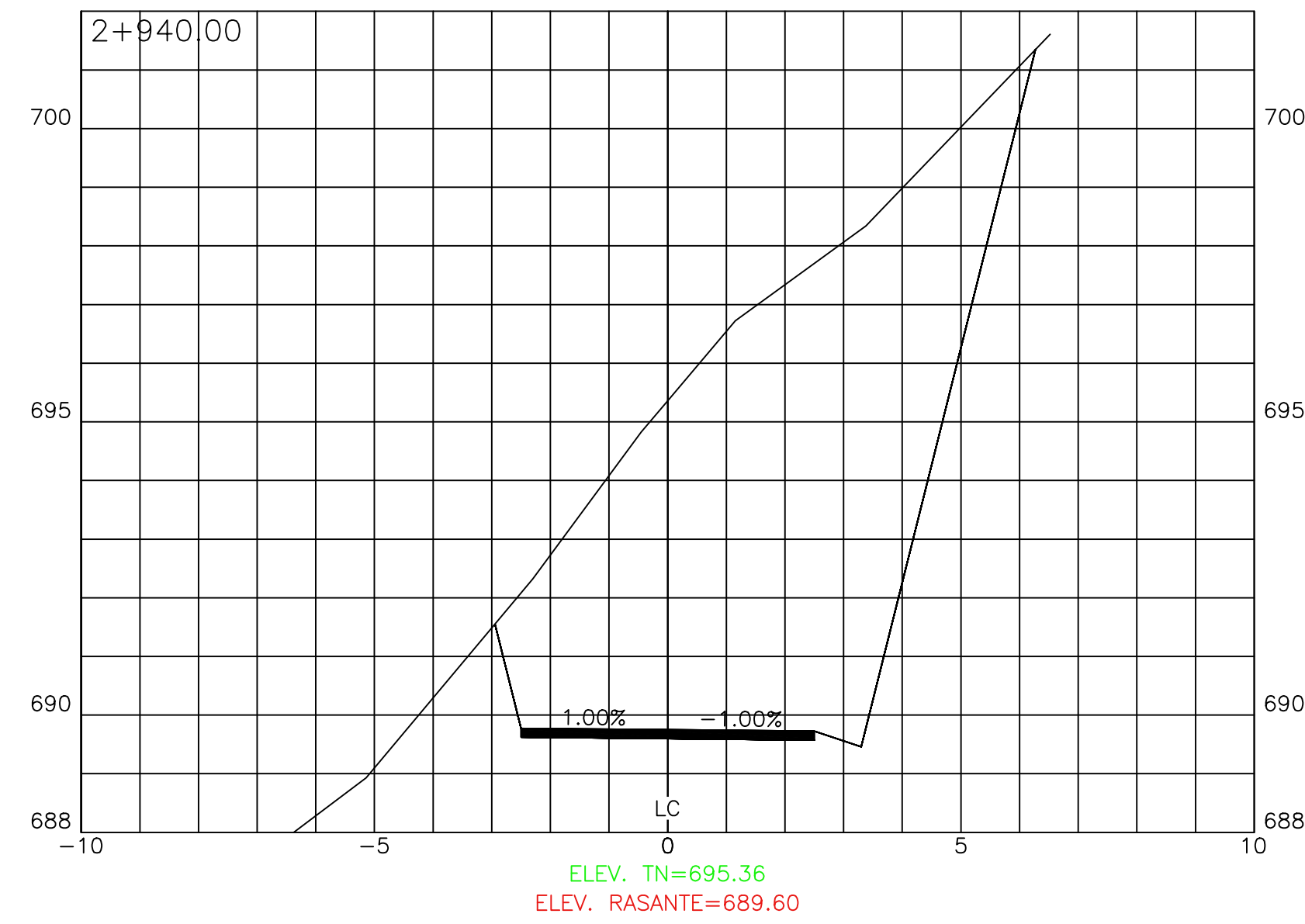
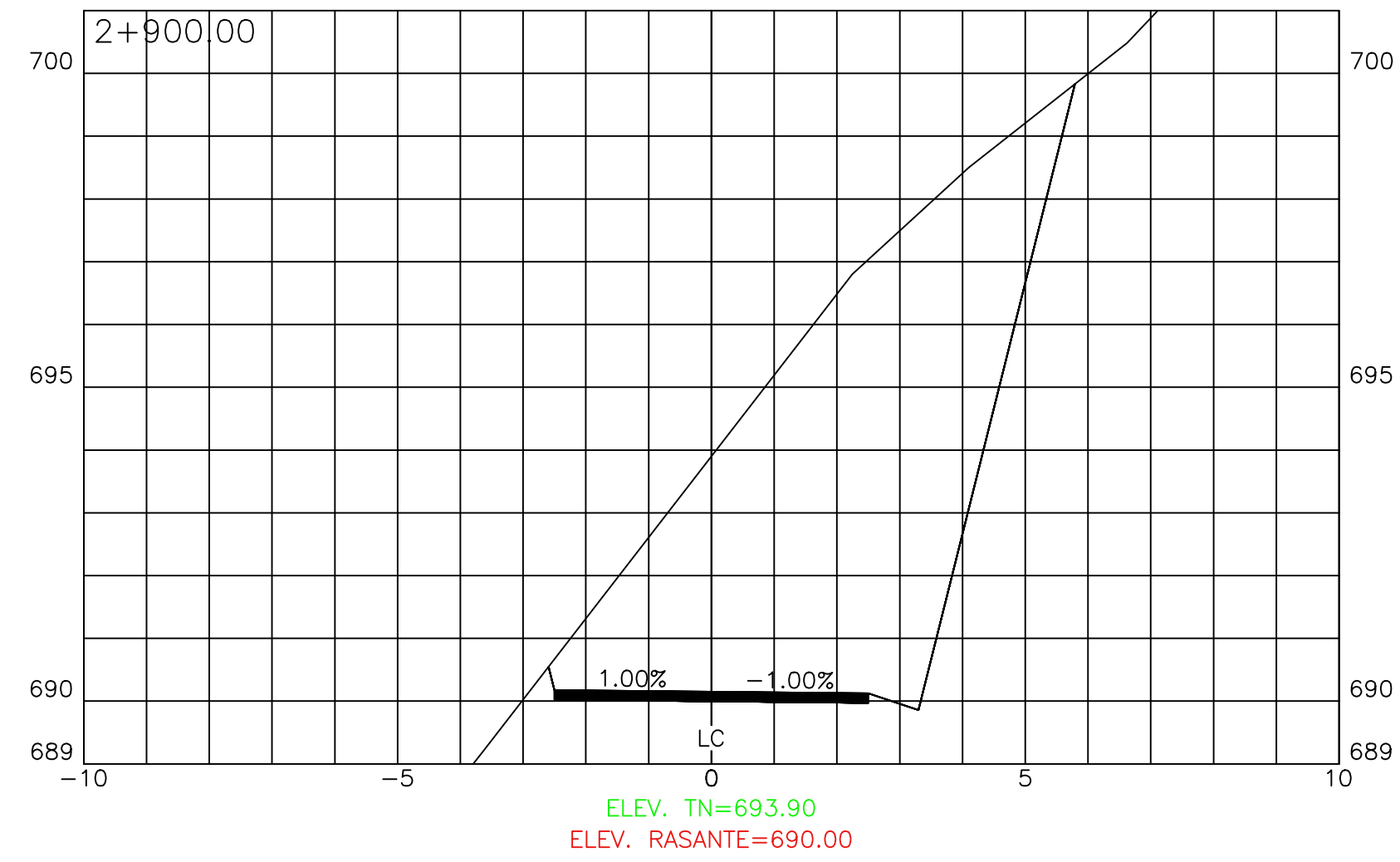
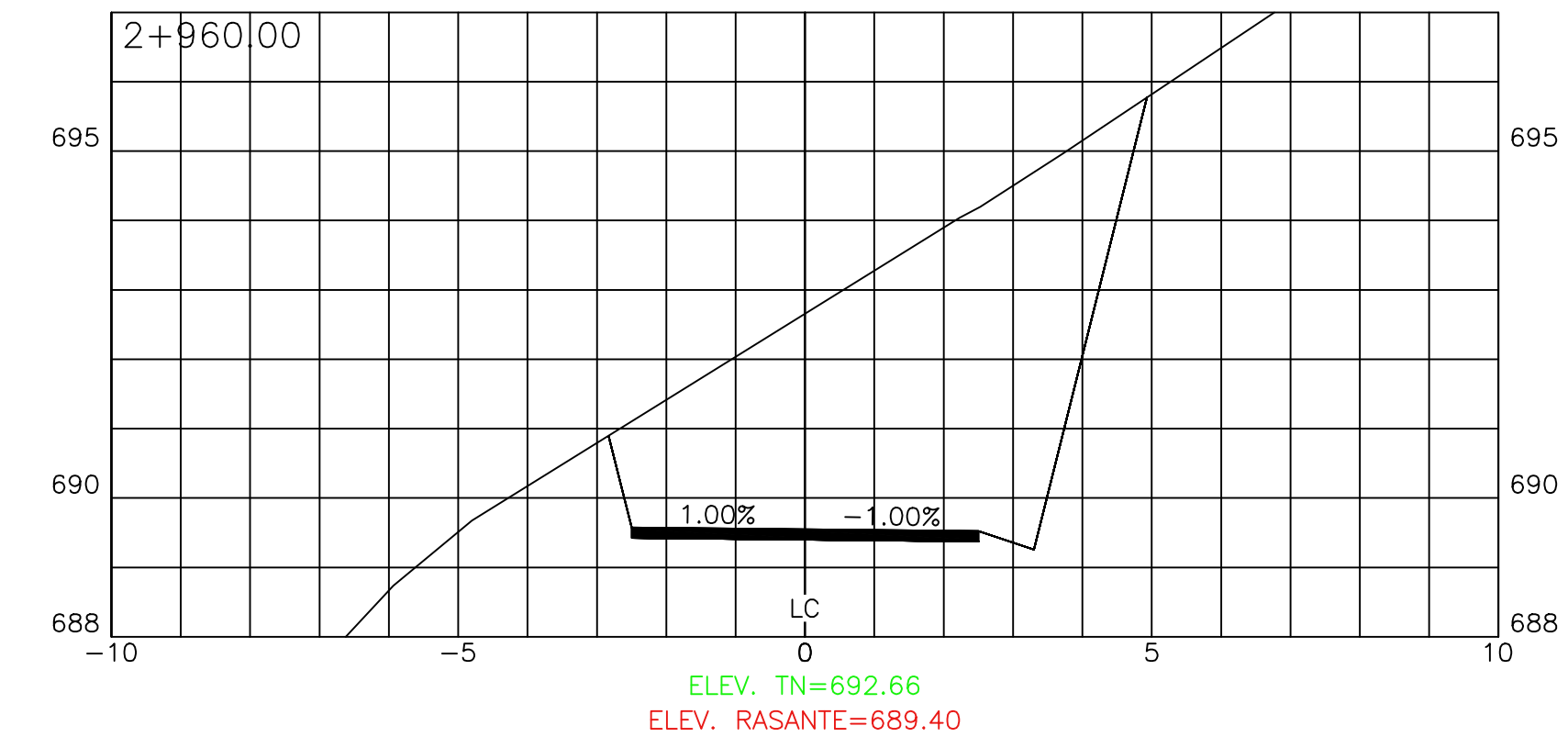
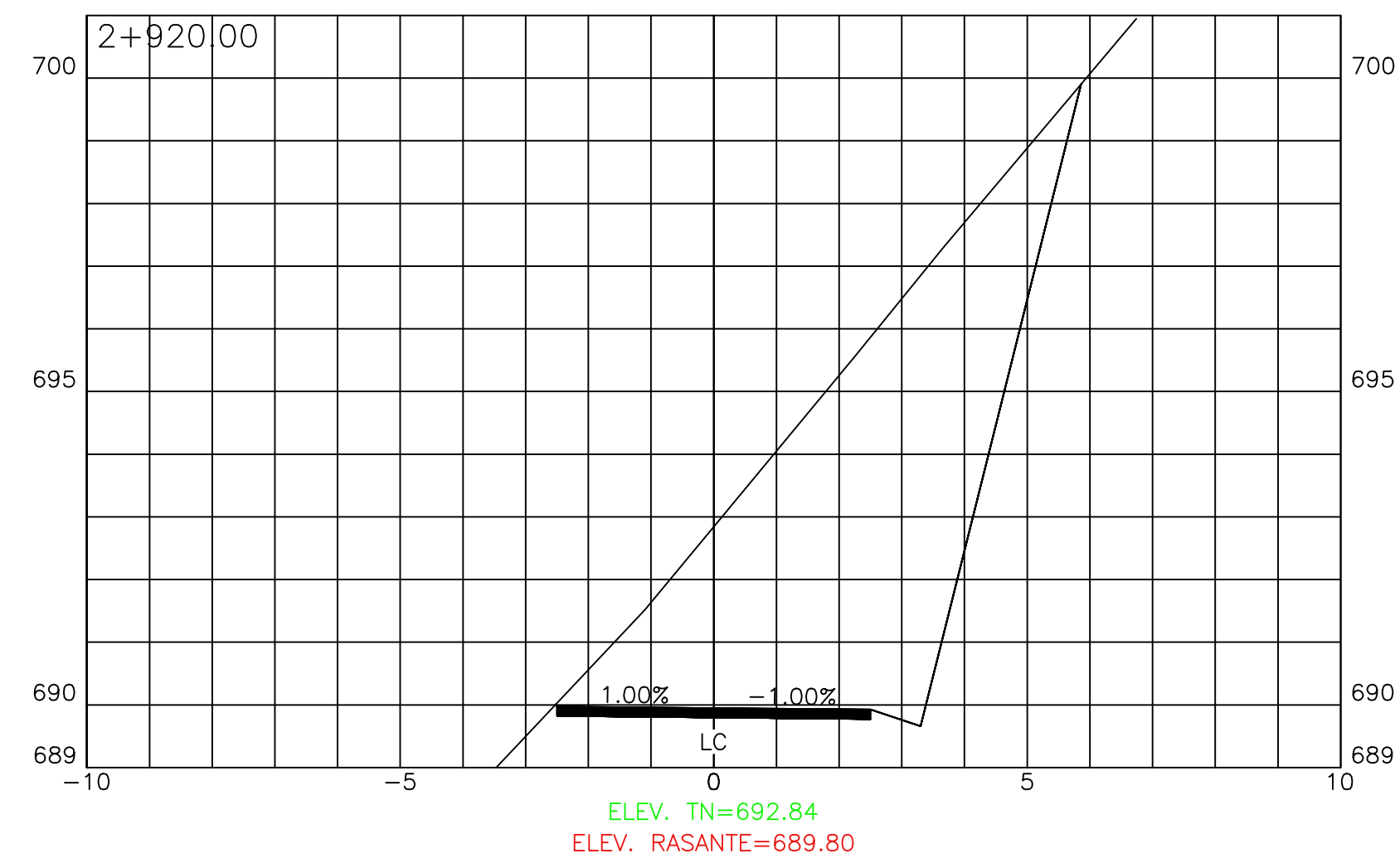
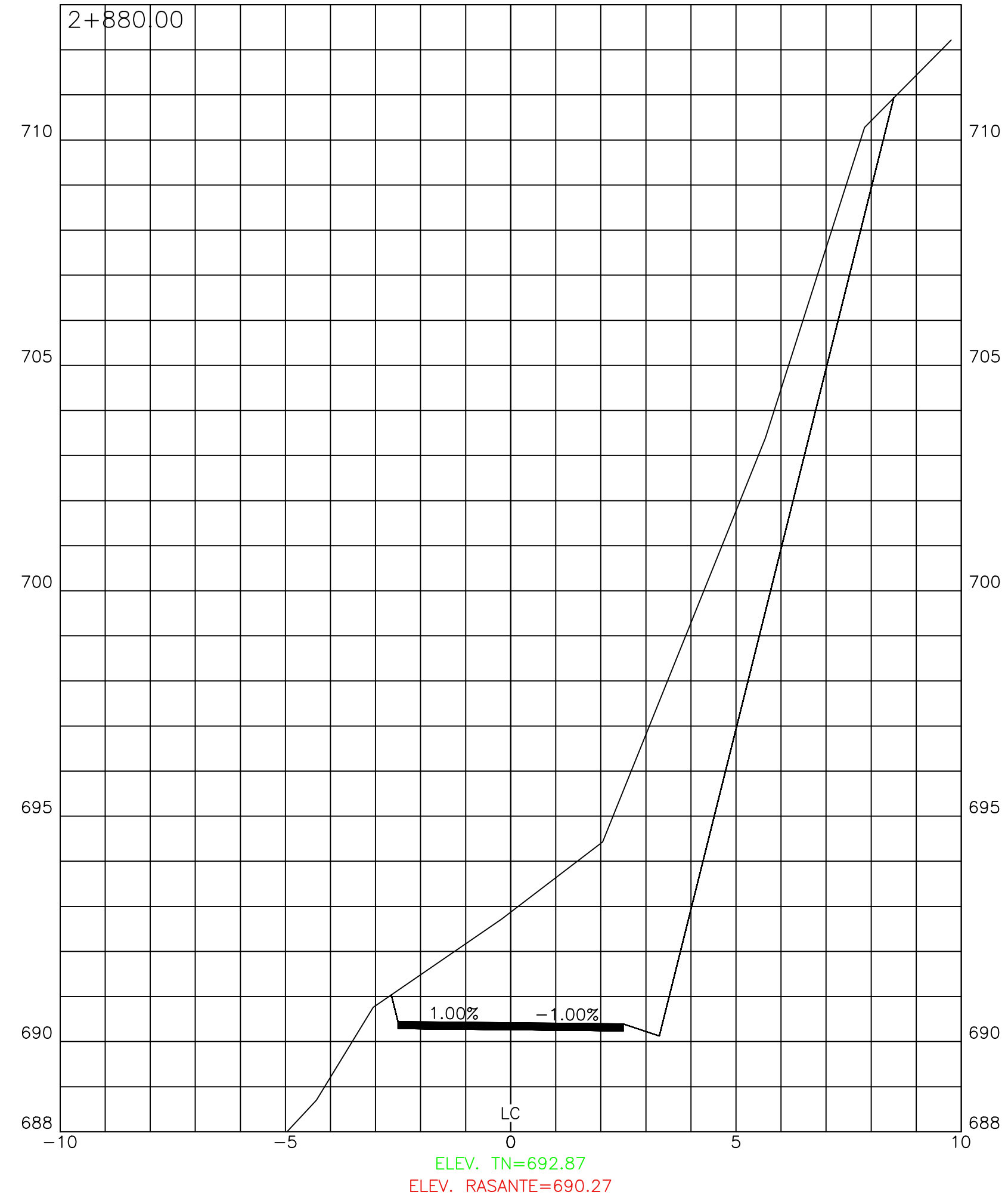


Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028

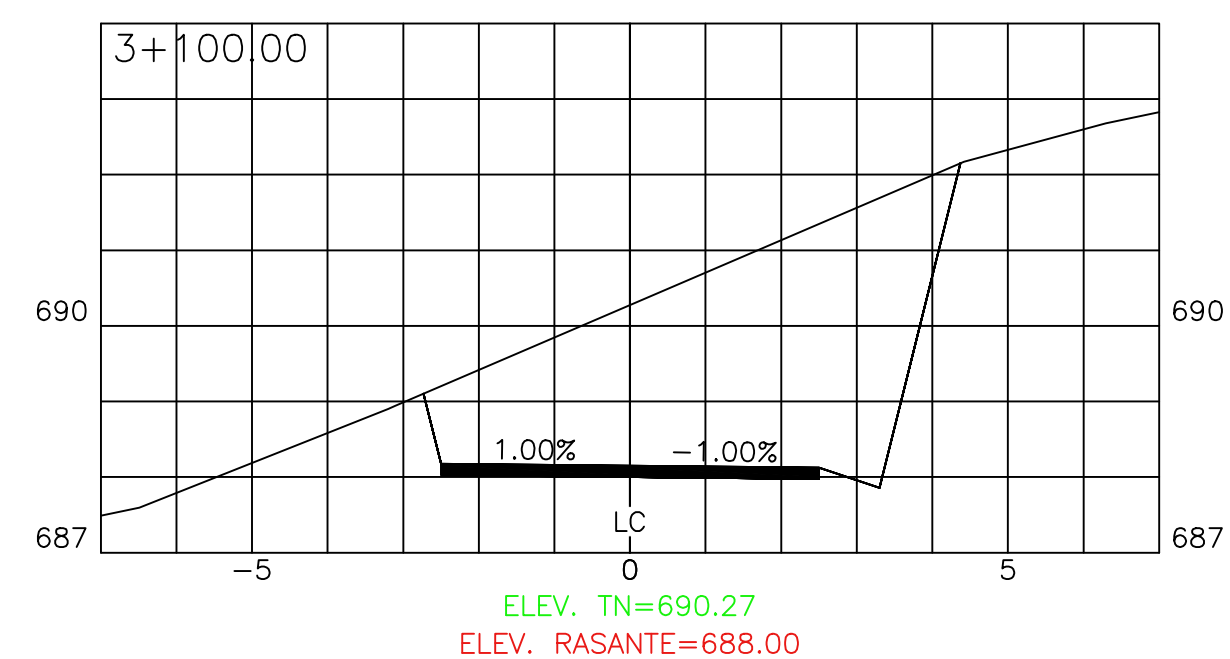
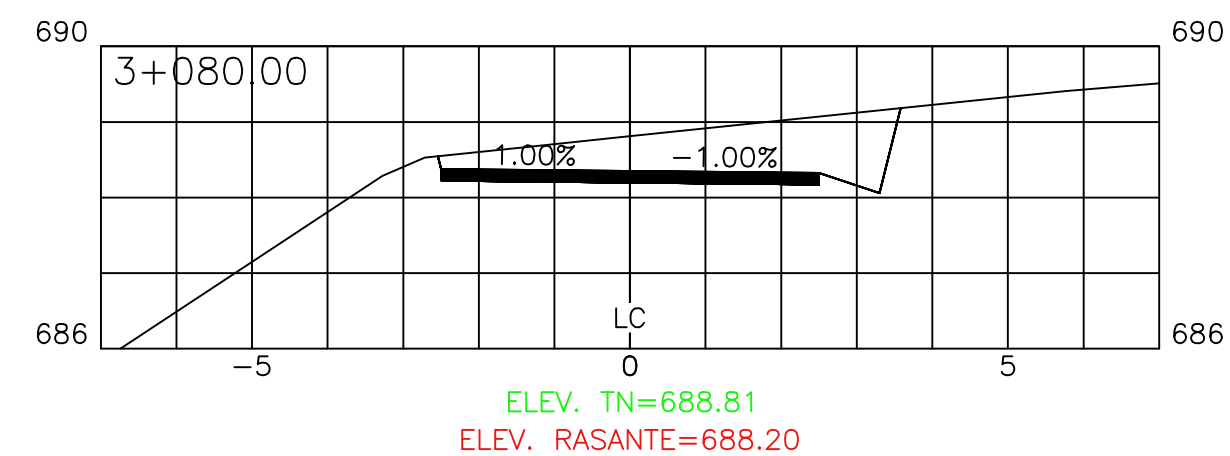
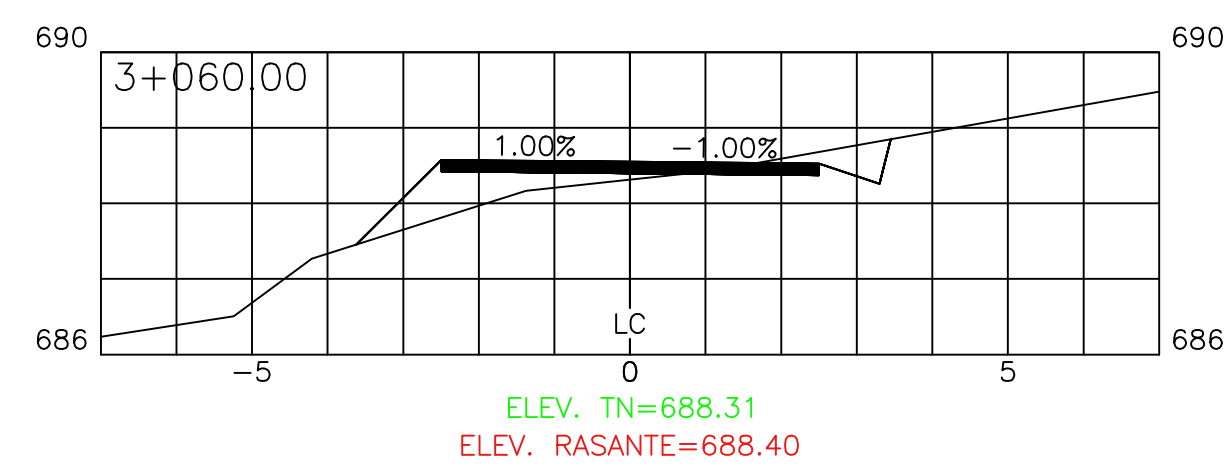
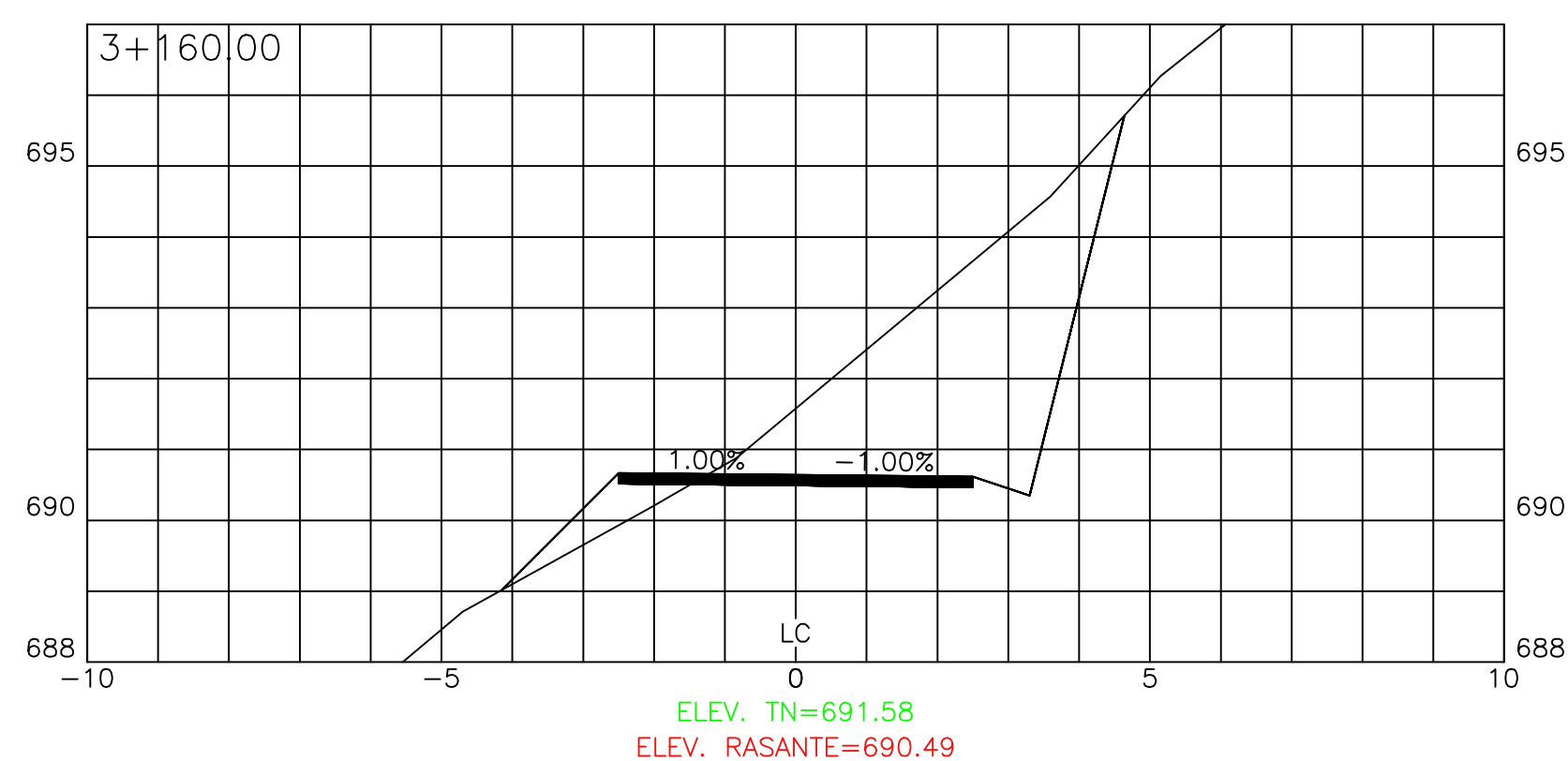
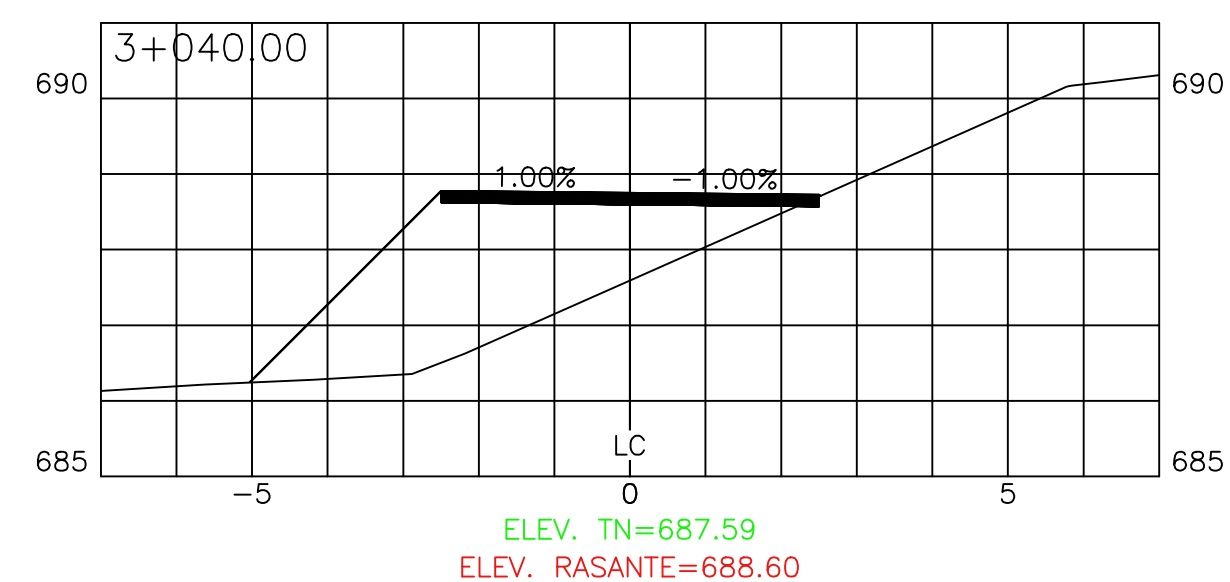
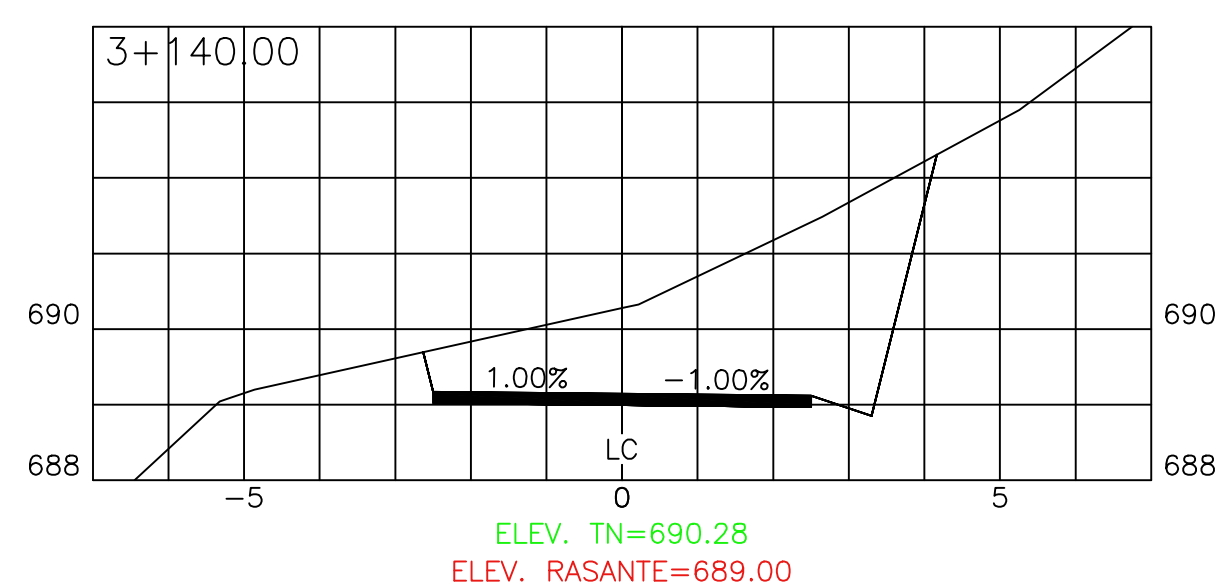
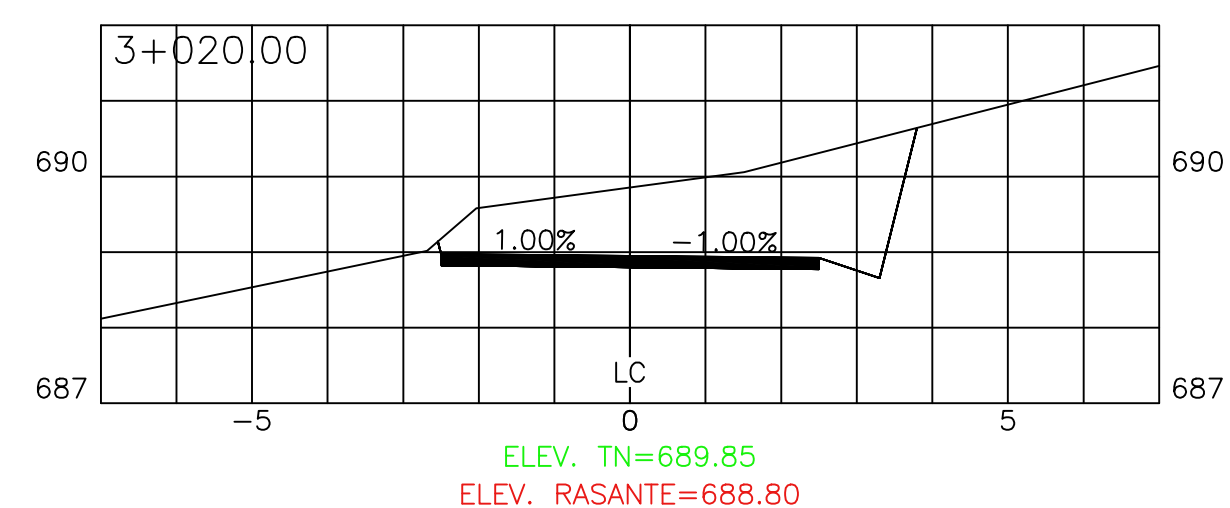
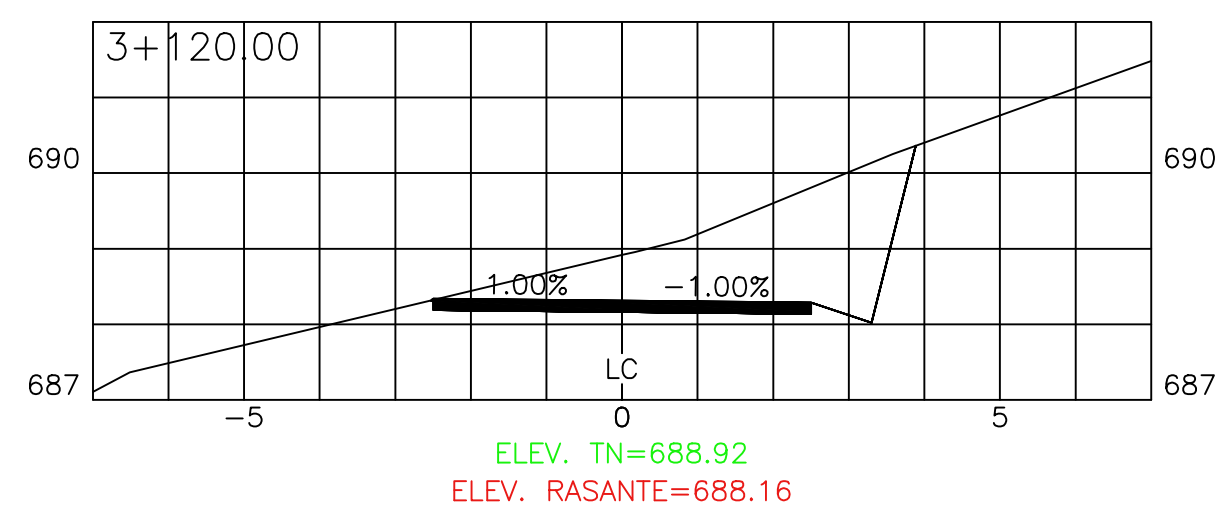
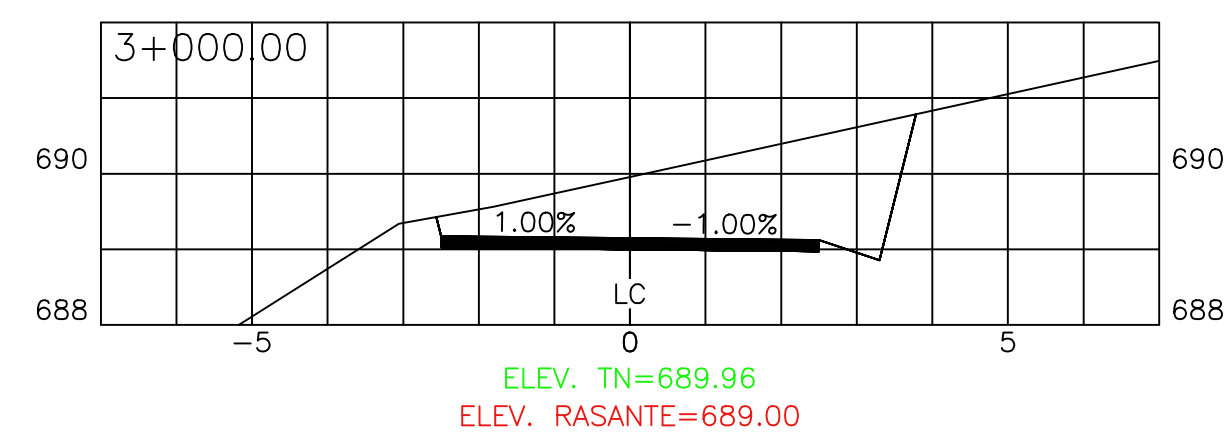


Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028

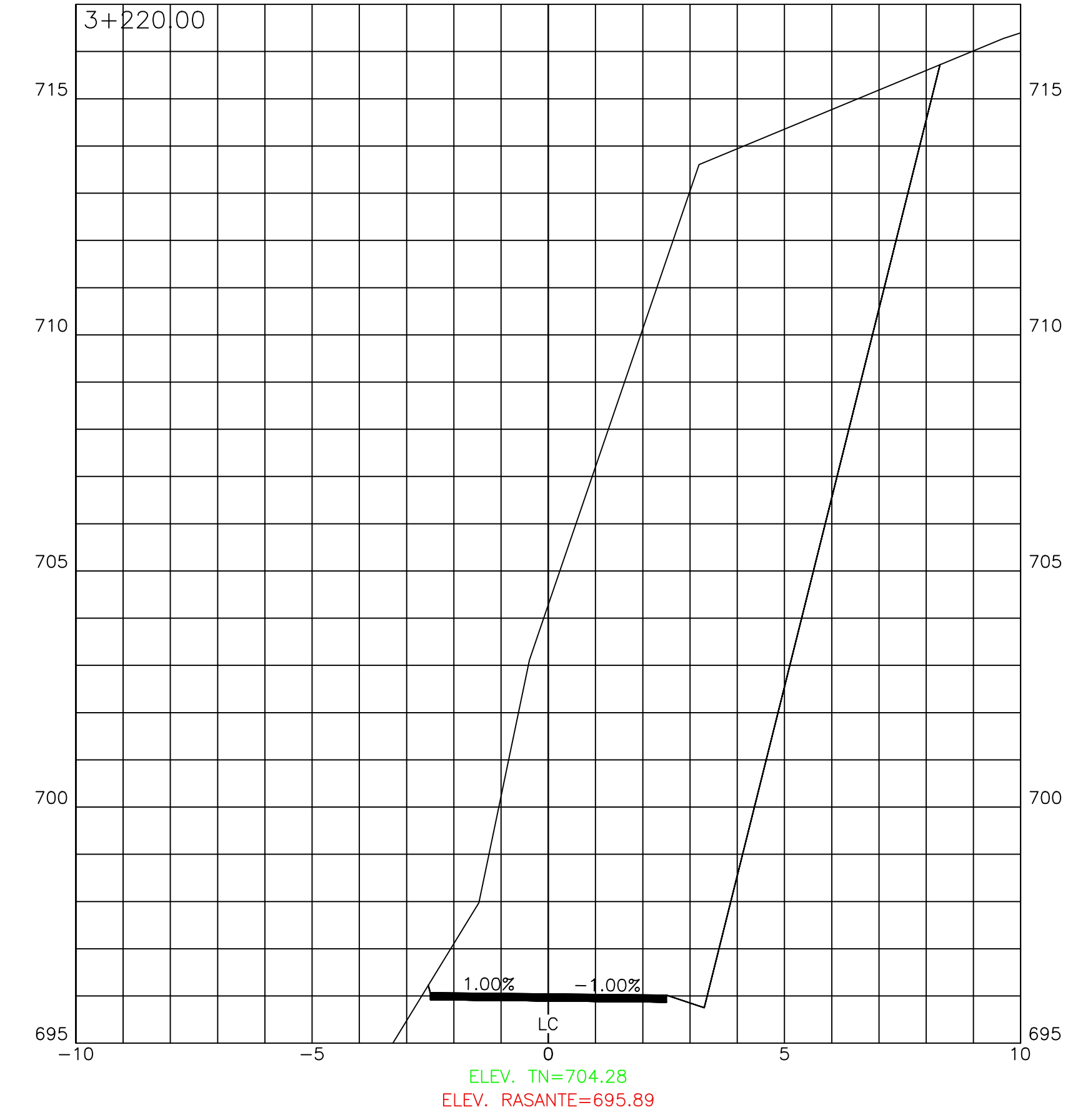
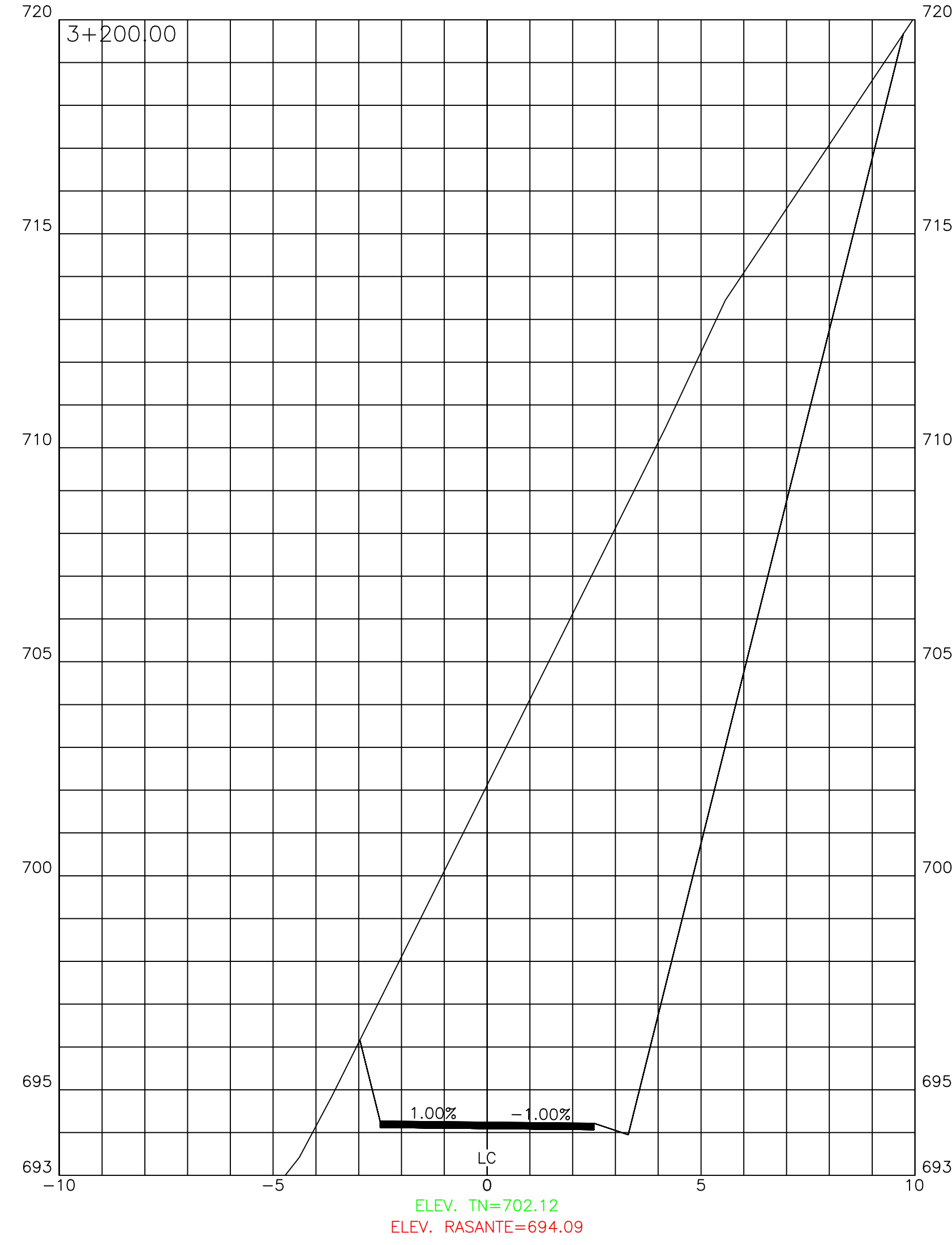
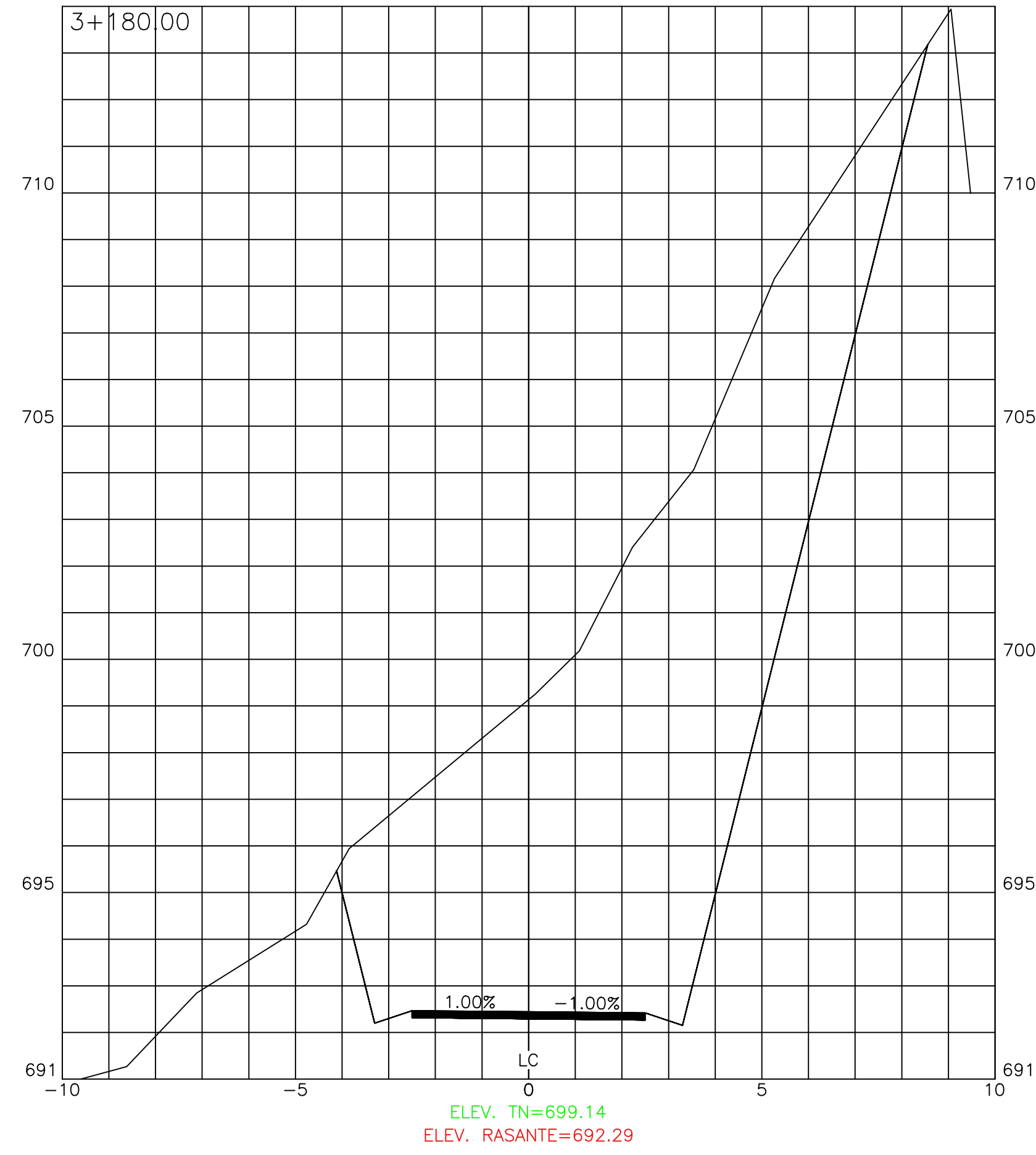




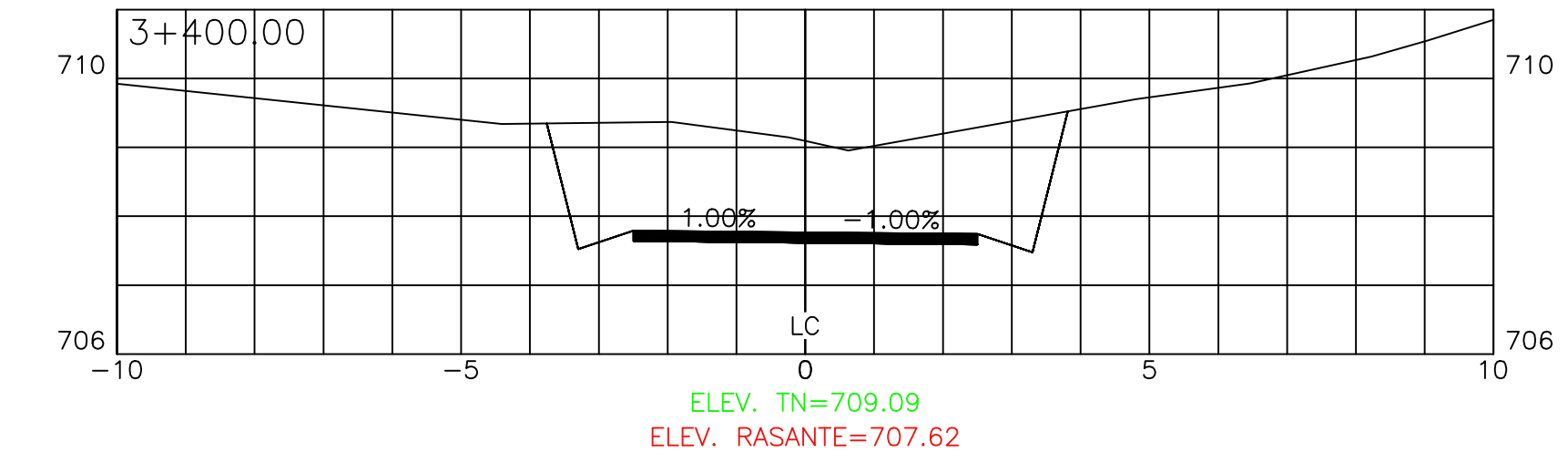
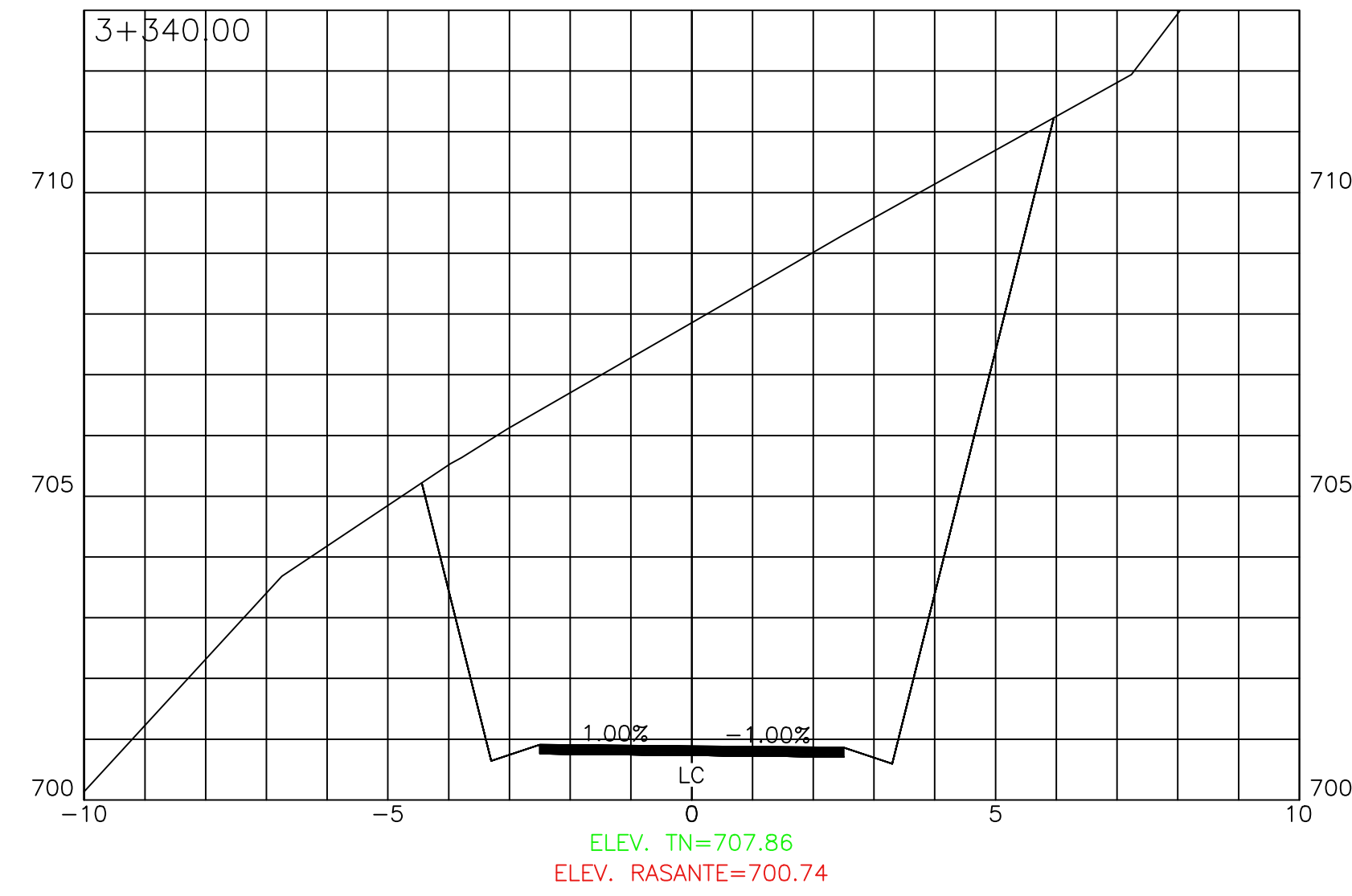
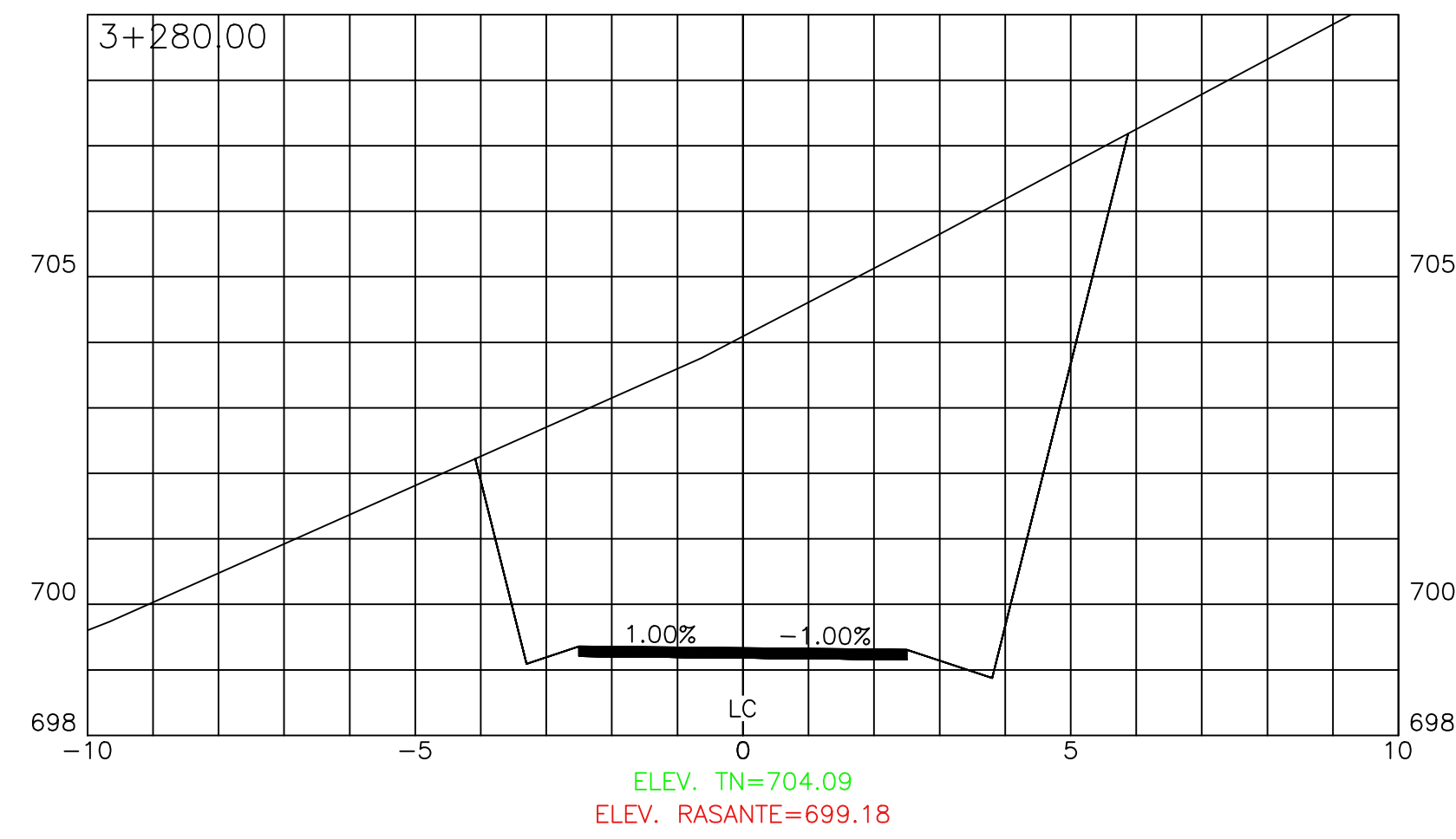
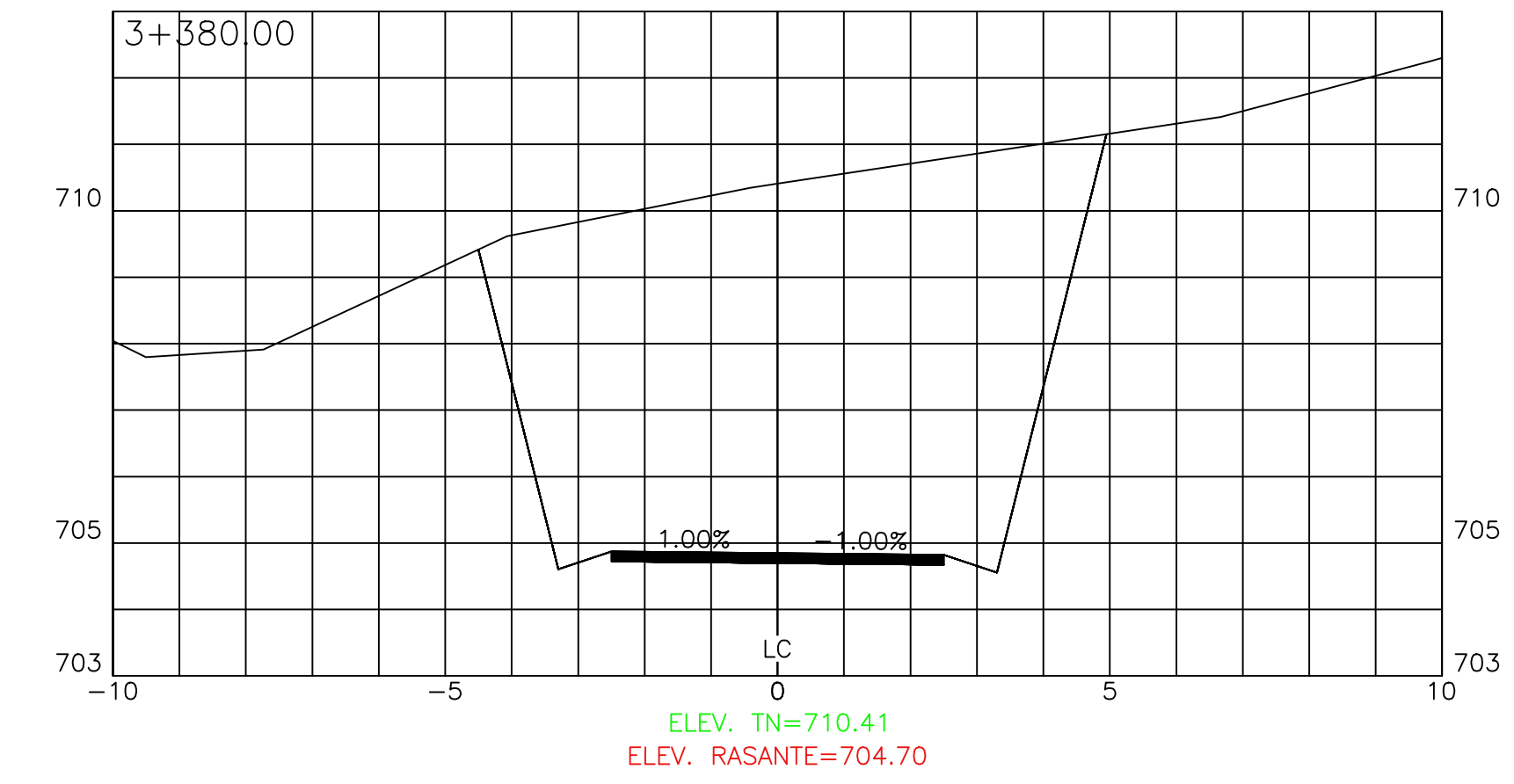
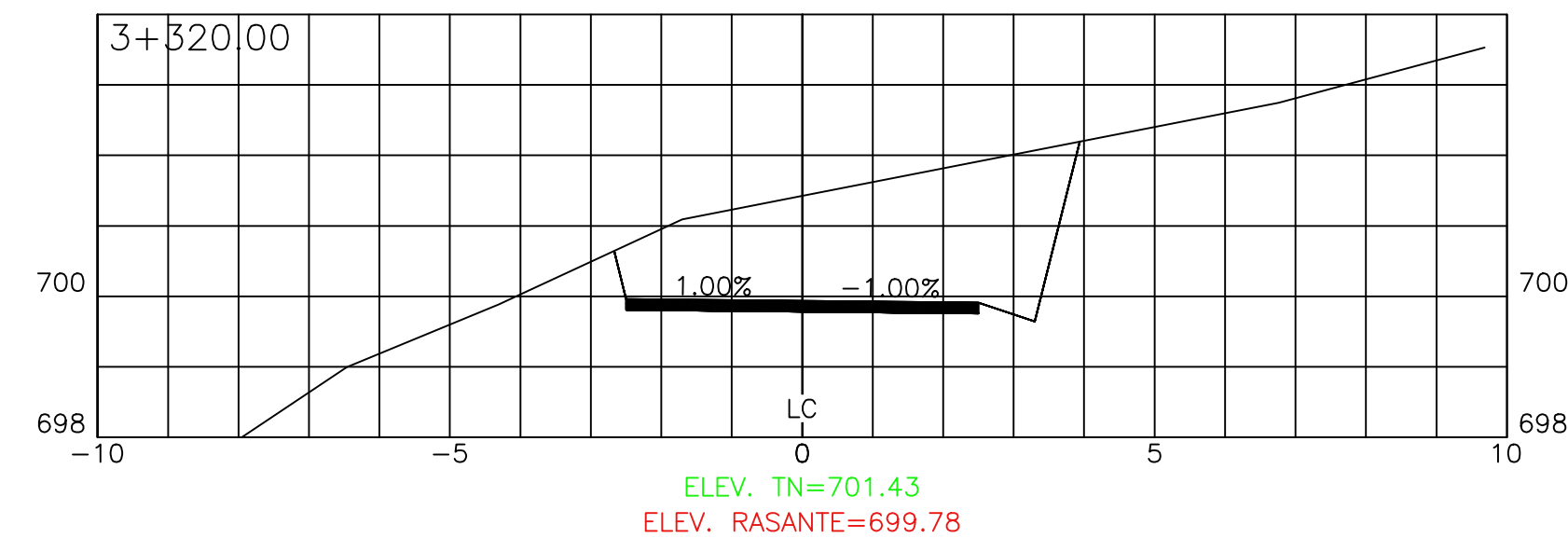
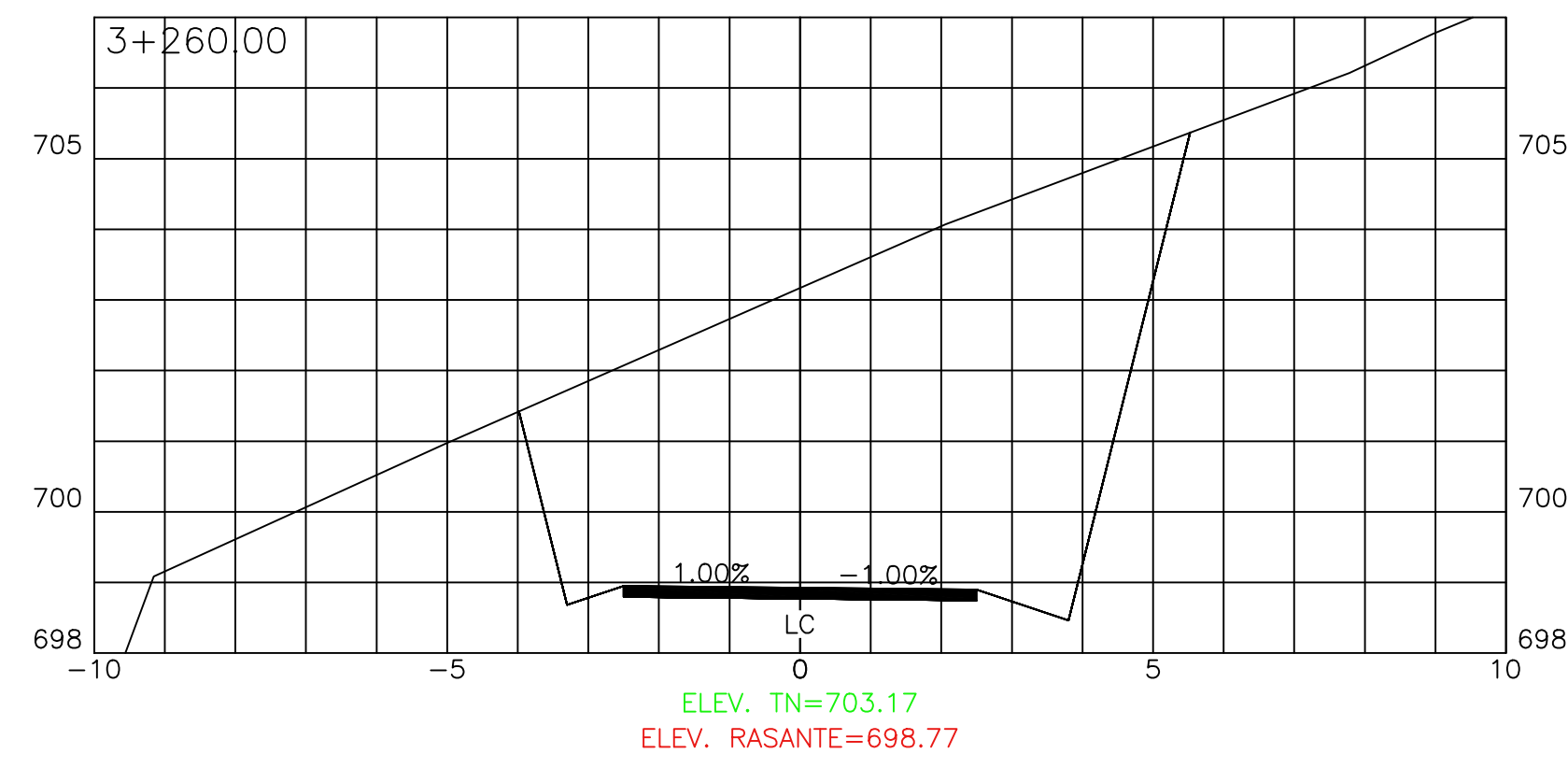
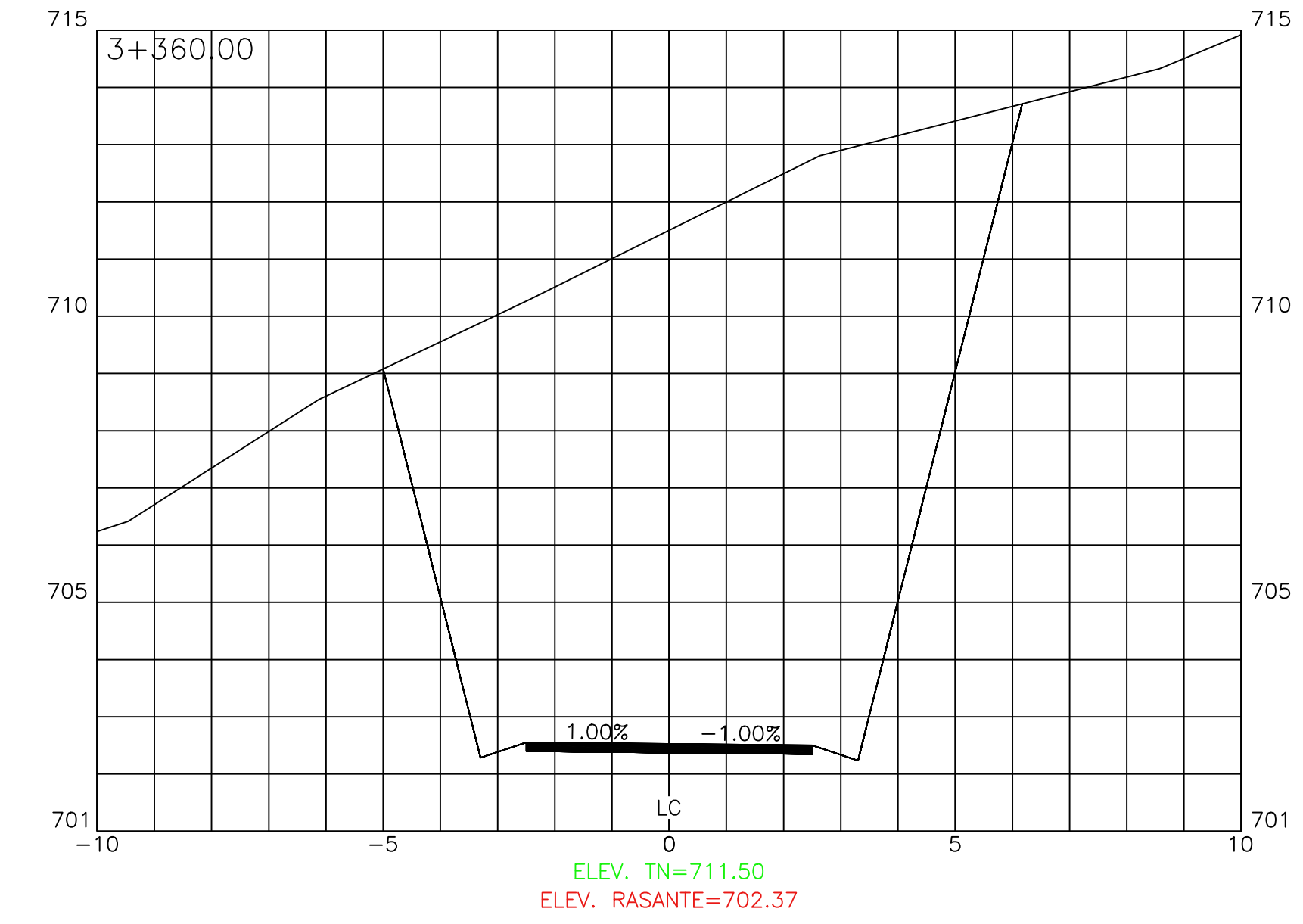
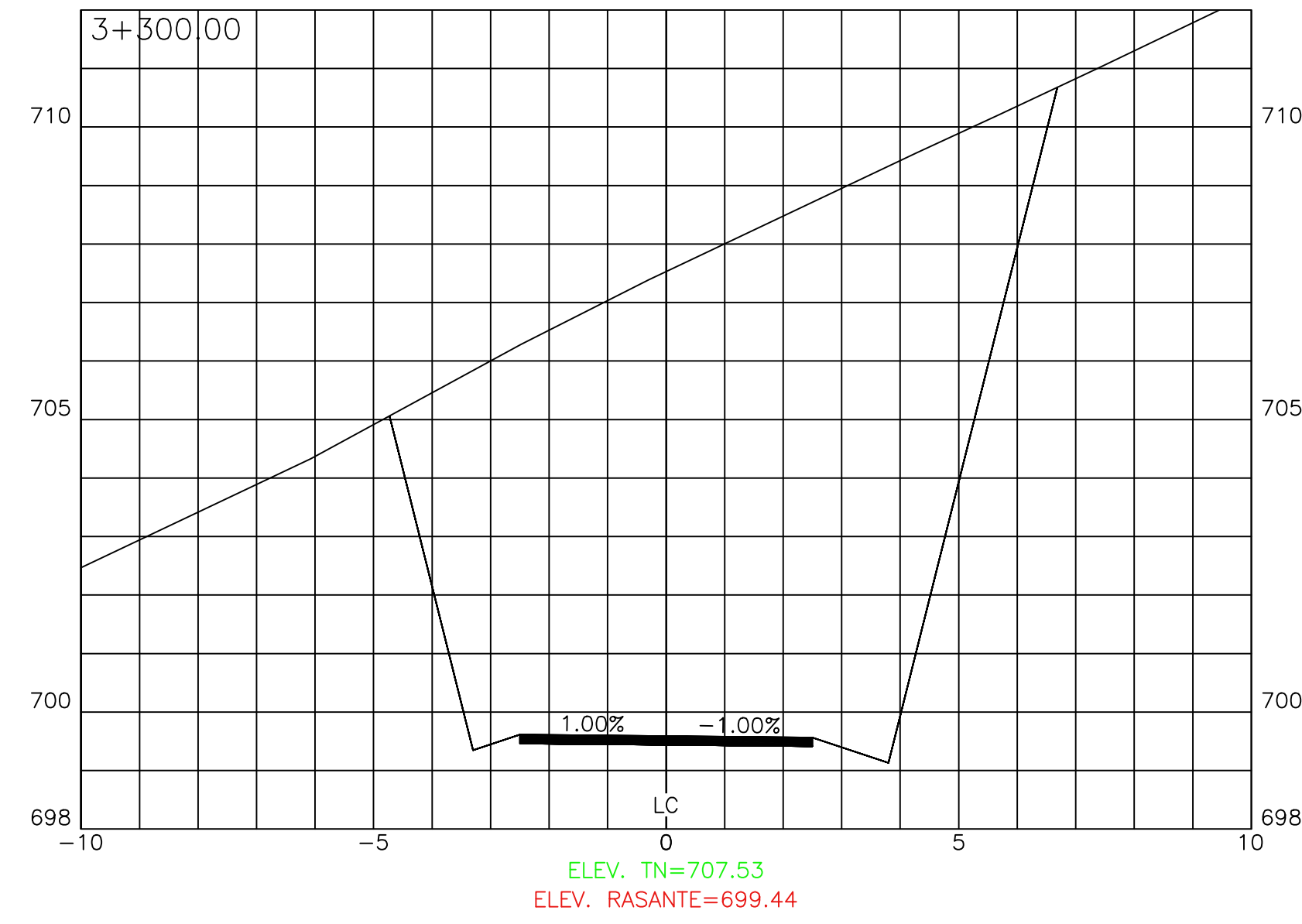
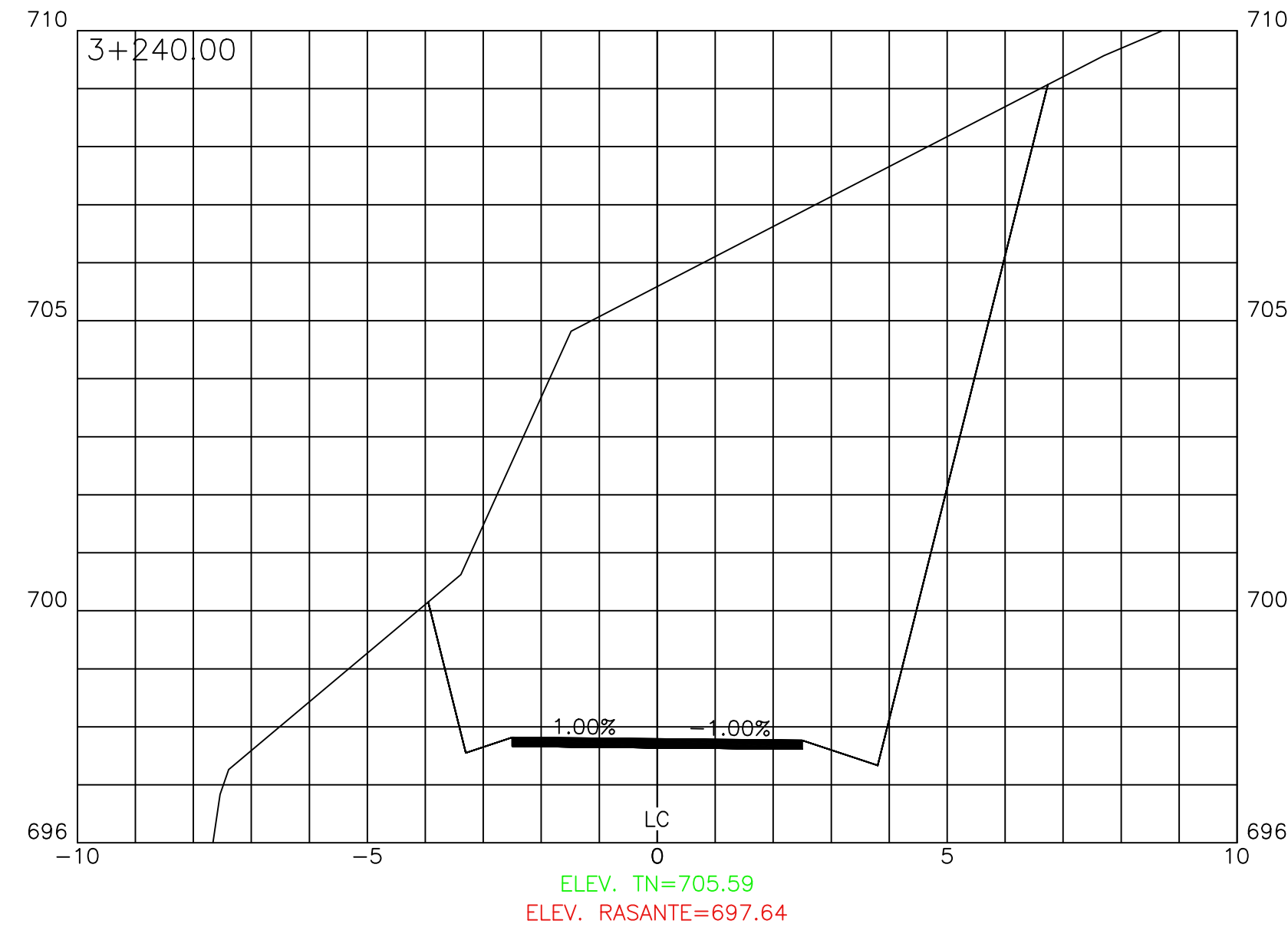
Levantó	:	DIXON DIAZ	
Dibujó/Calculó	:	ING. ANA IRIAS	
Proyectó	:	ING. OSCAR ESPINO	CICH 4584
Revisó	:	ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	:	ING. MANUE CONDE CUEVAS	CICH 4028



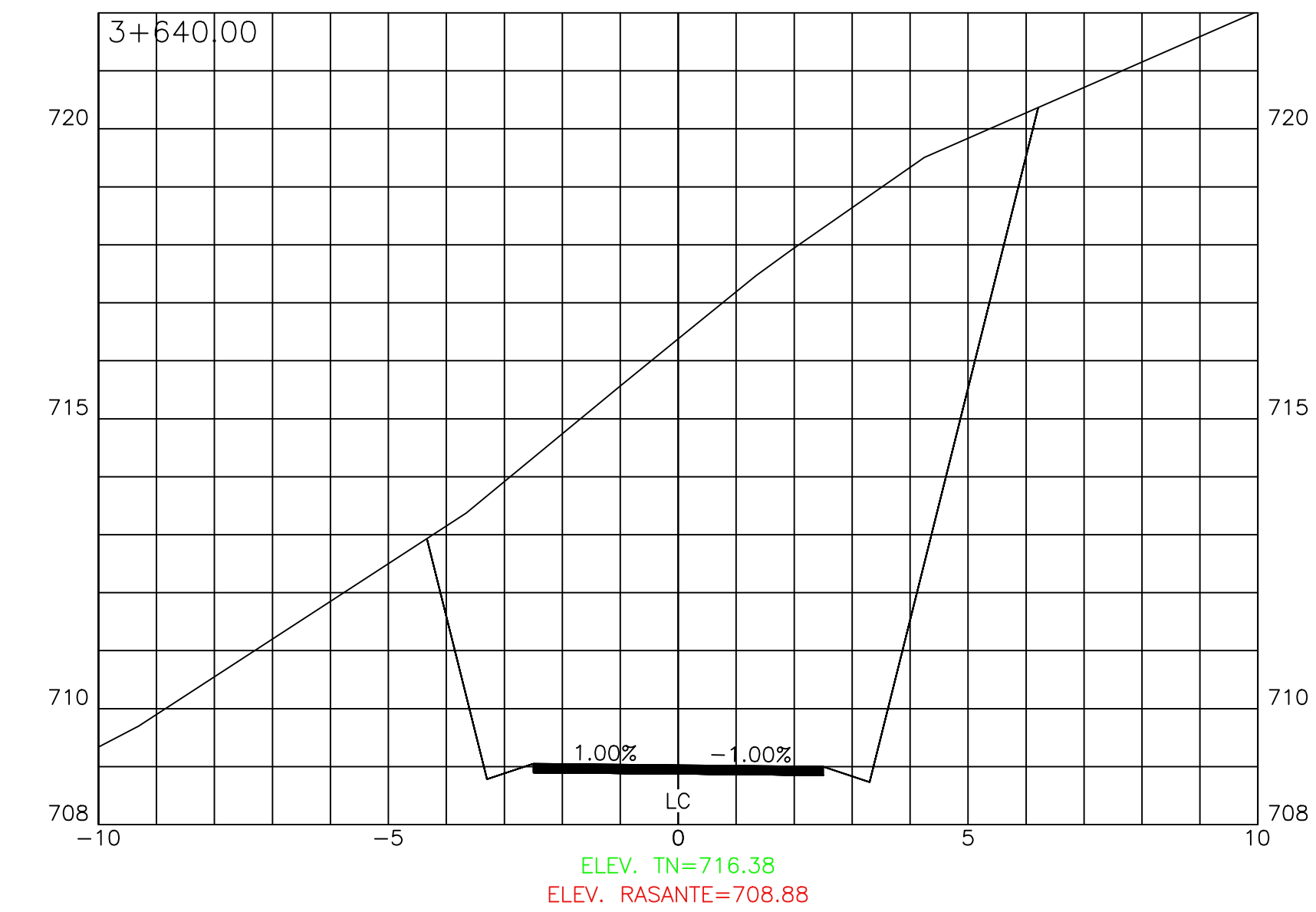
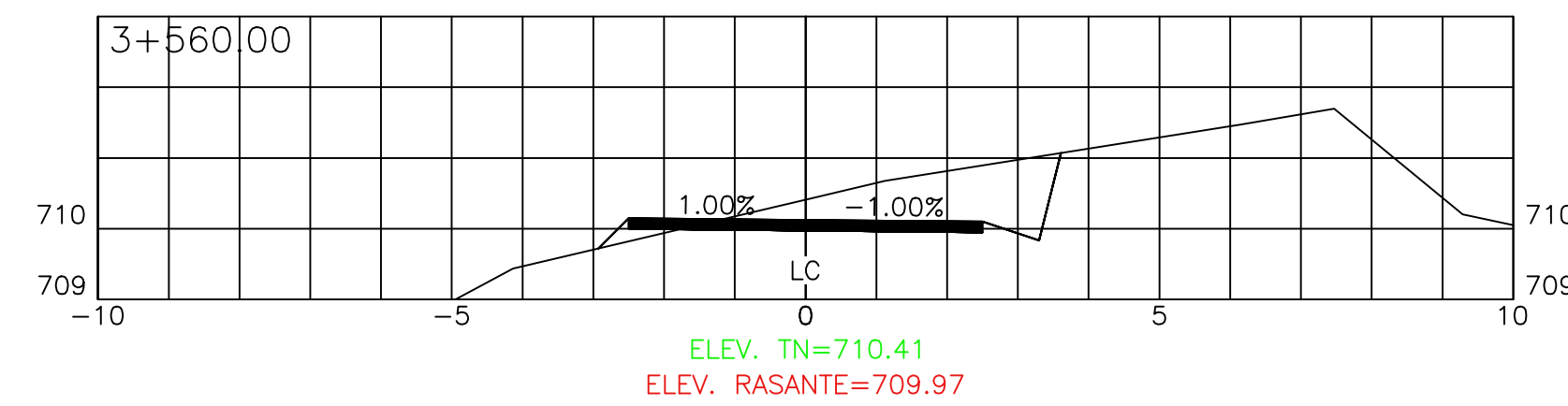
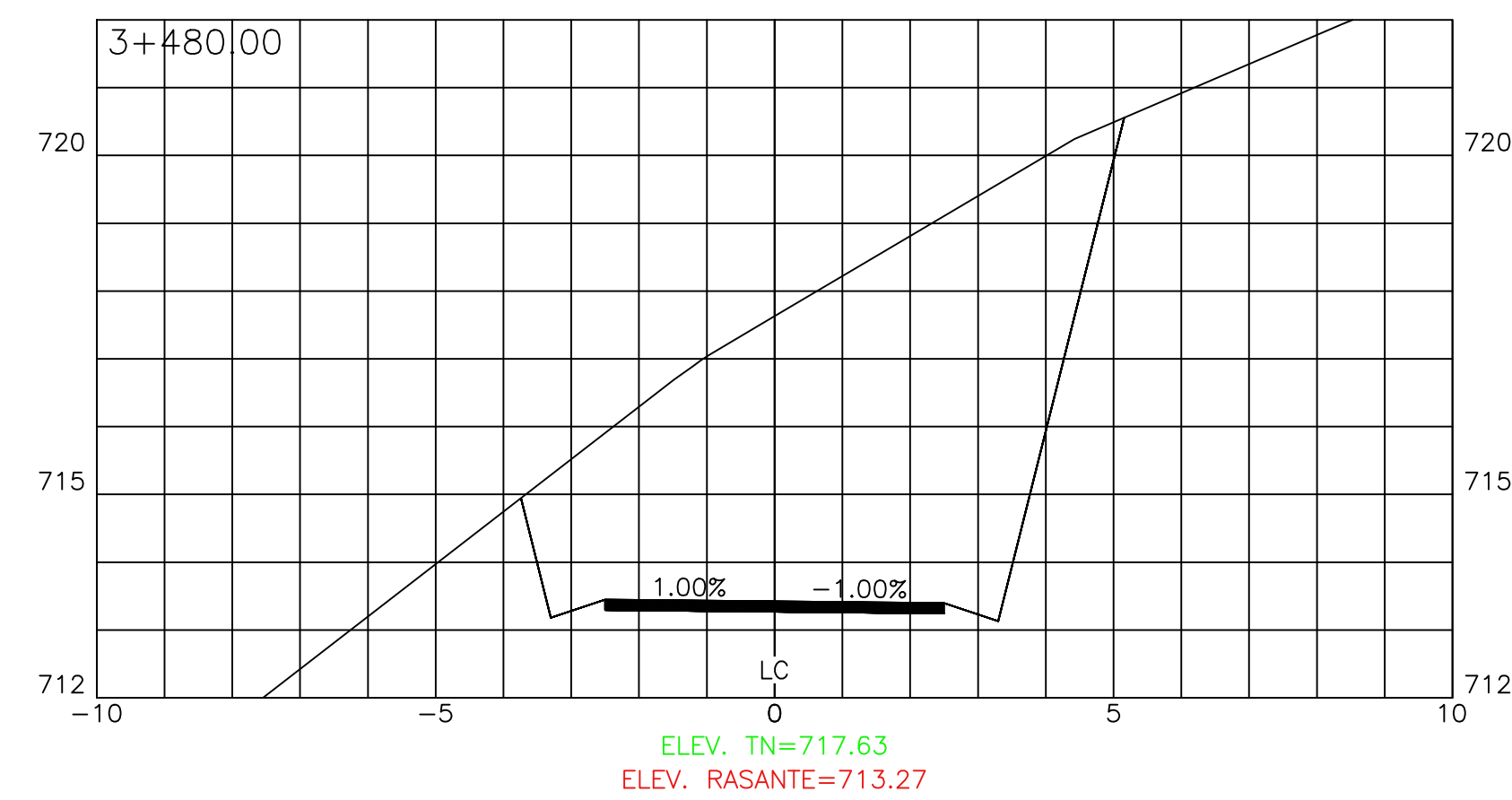
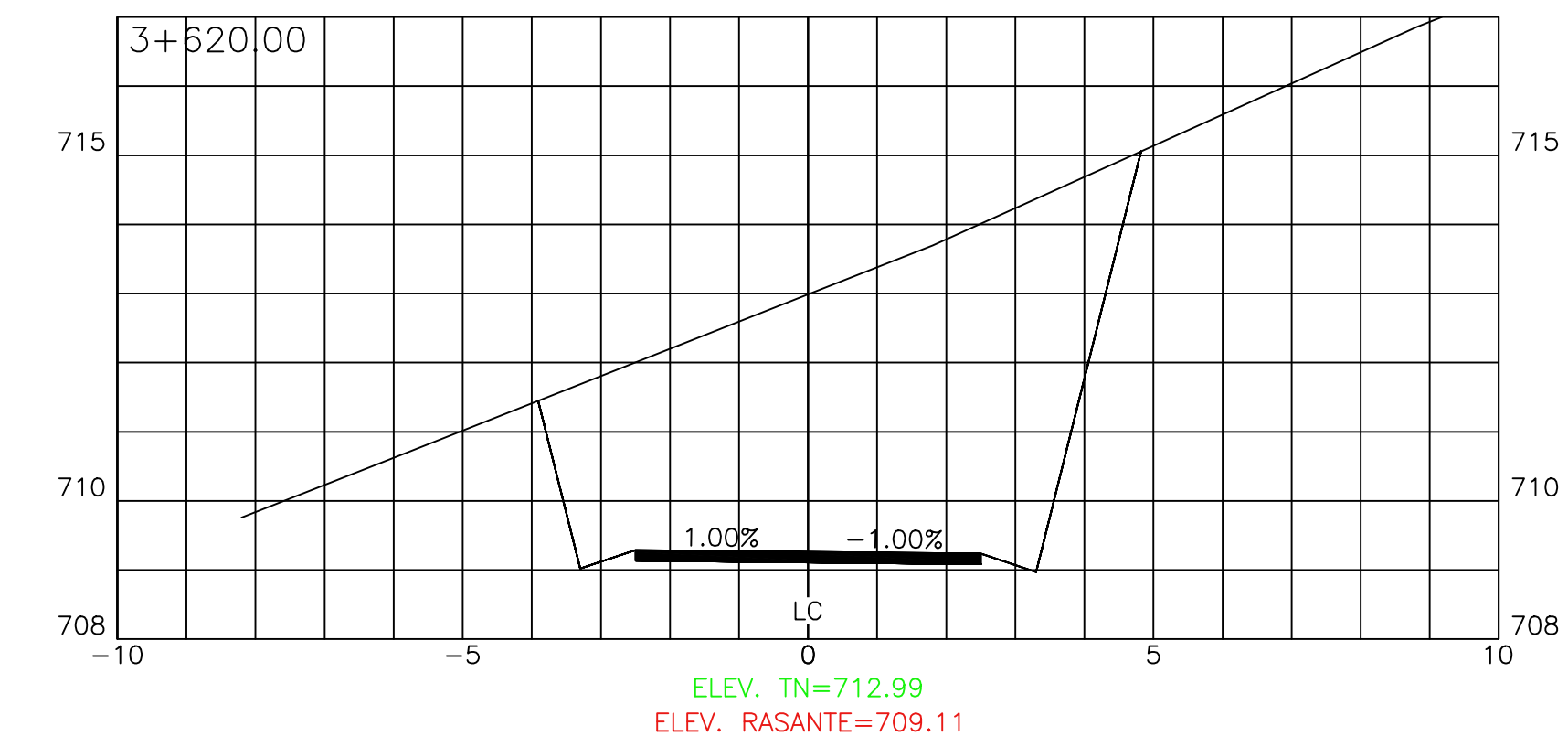
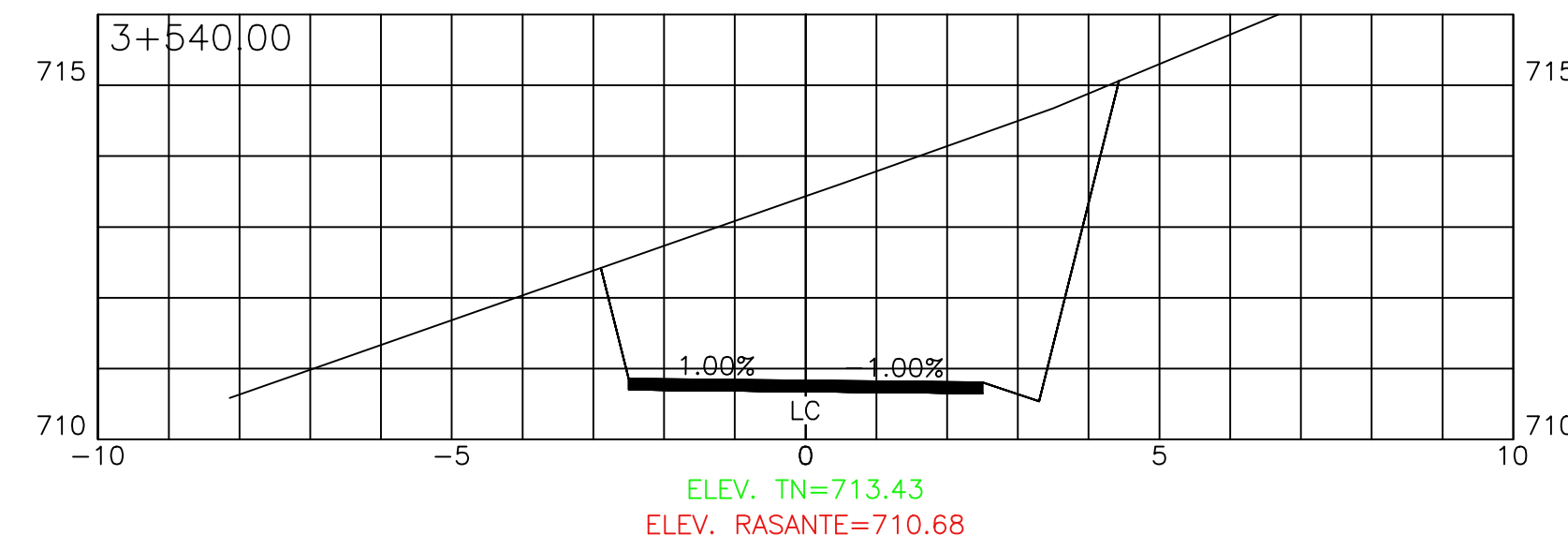
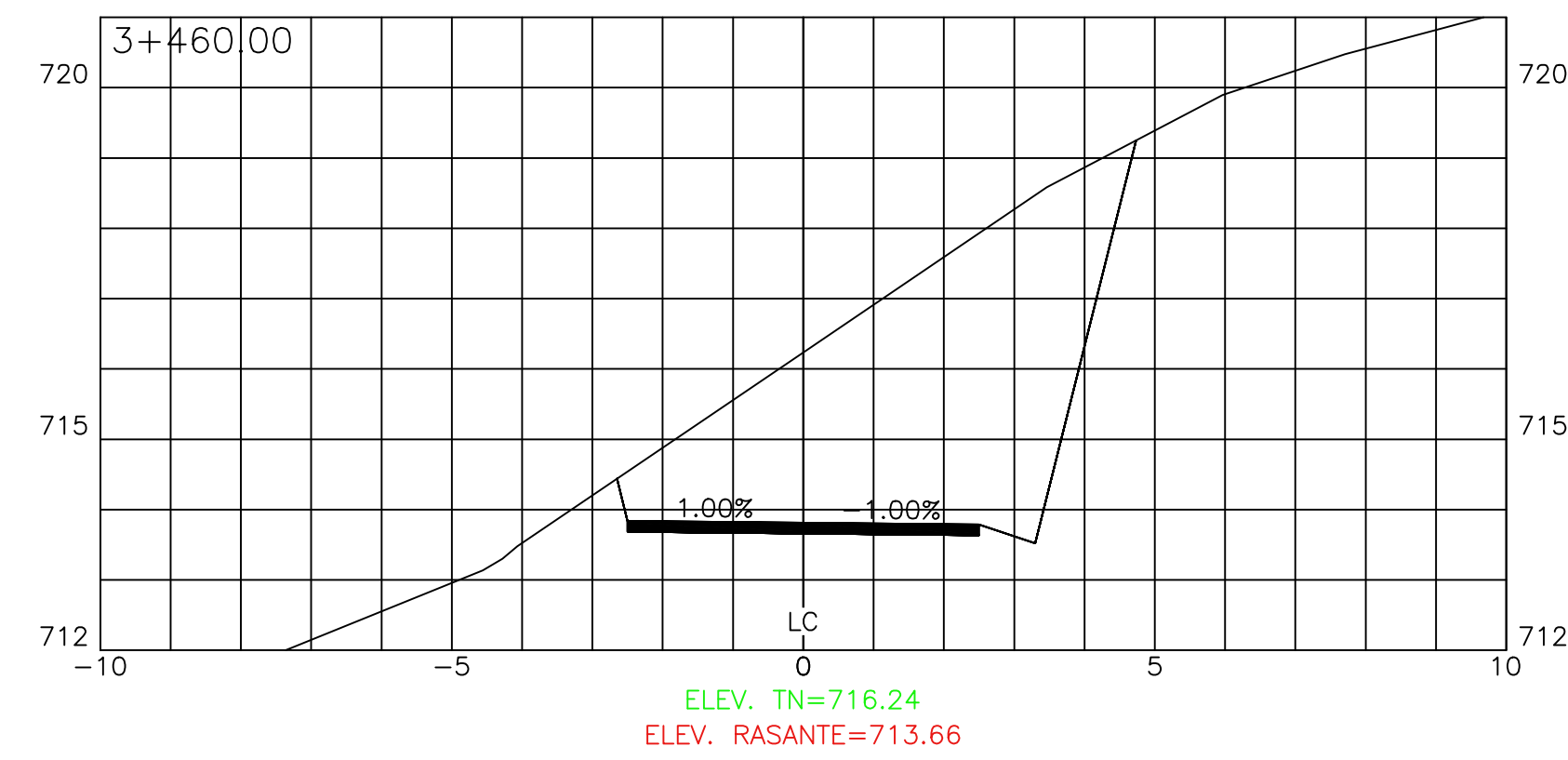
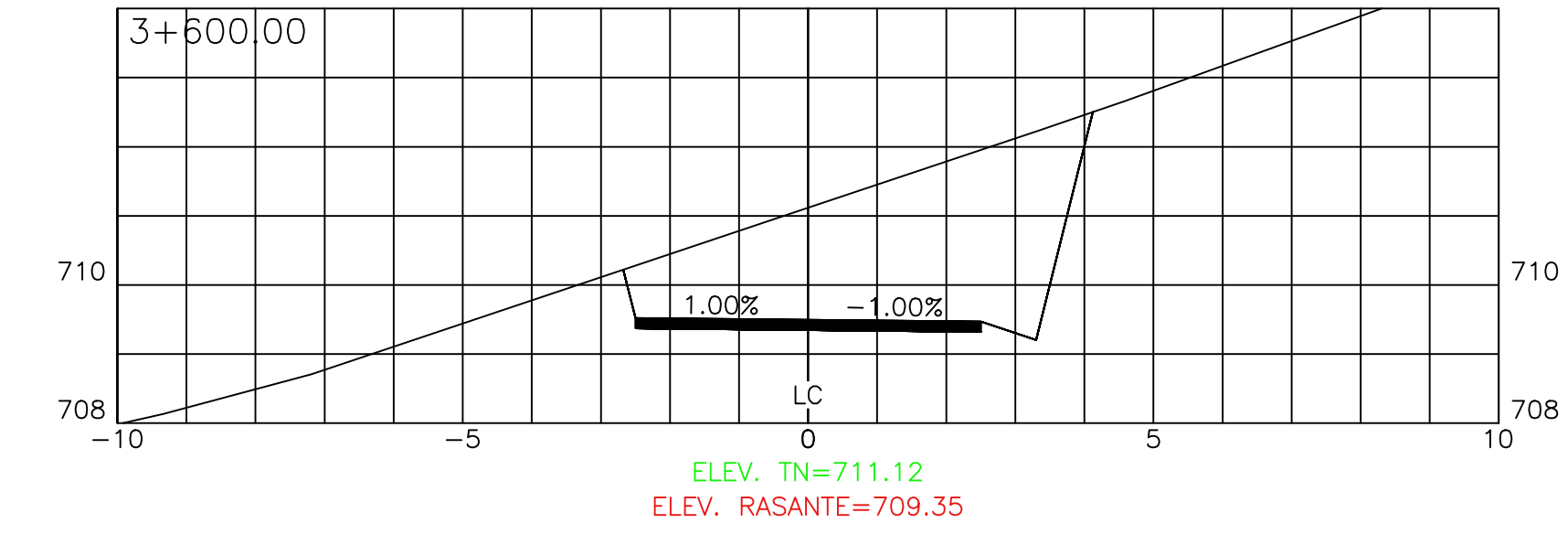
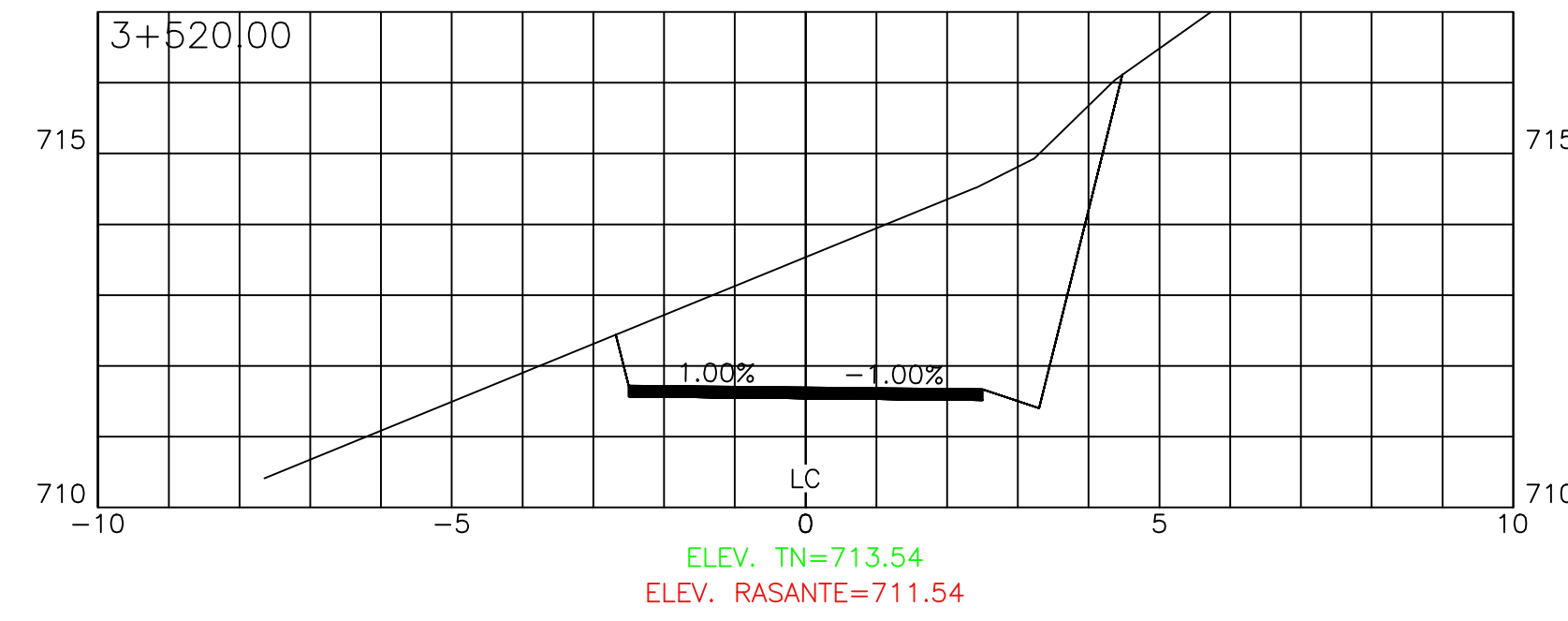
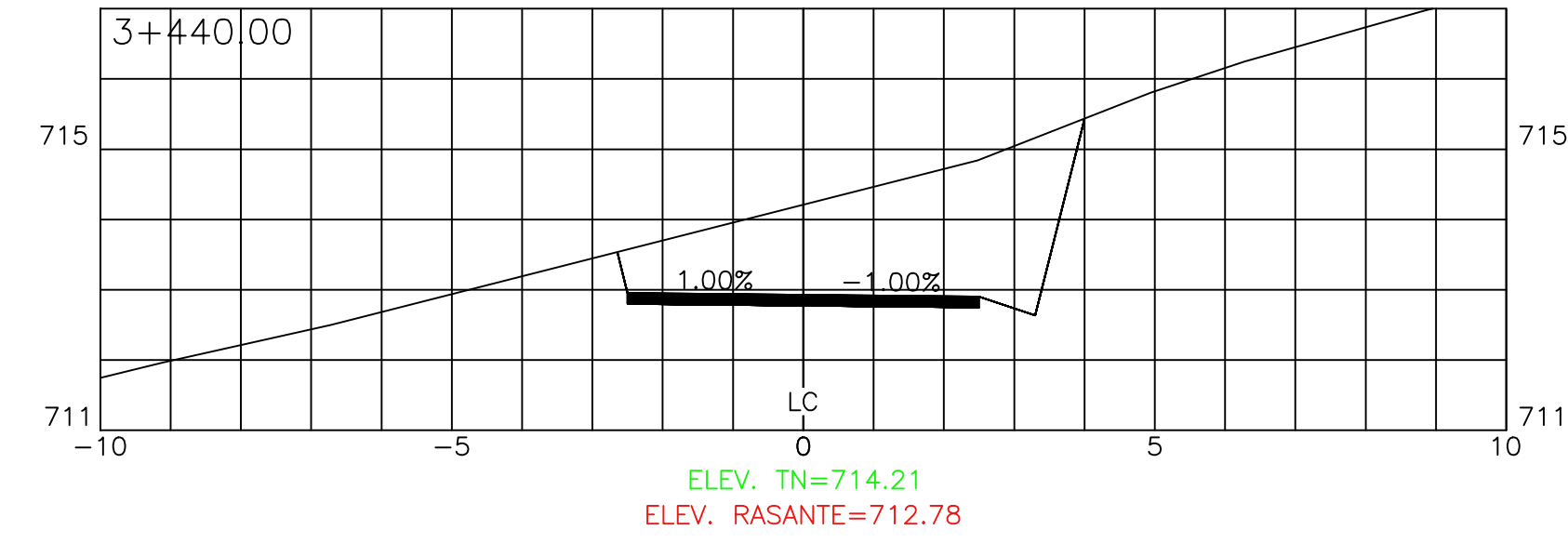
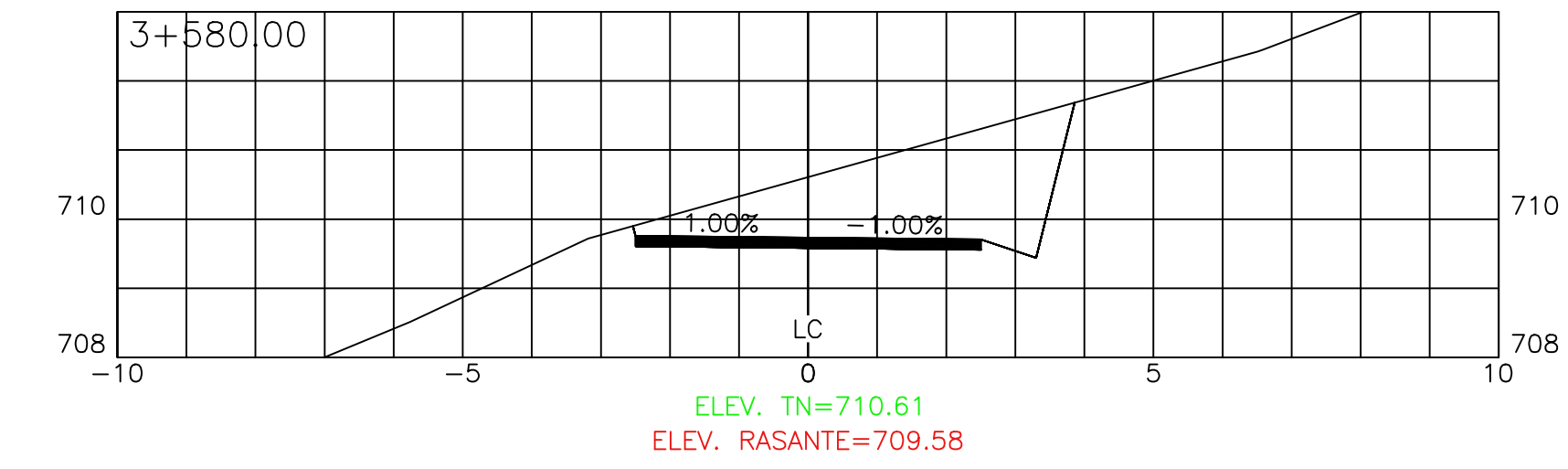
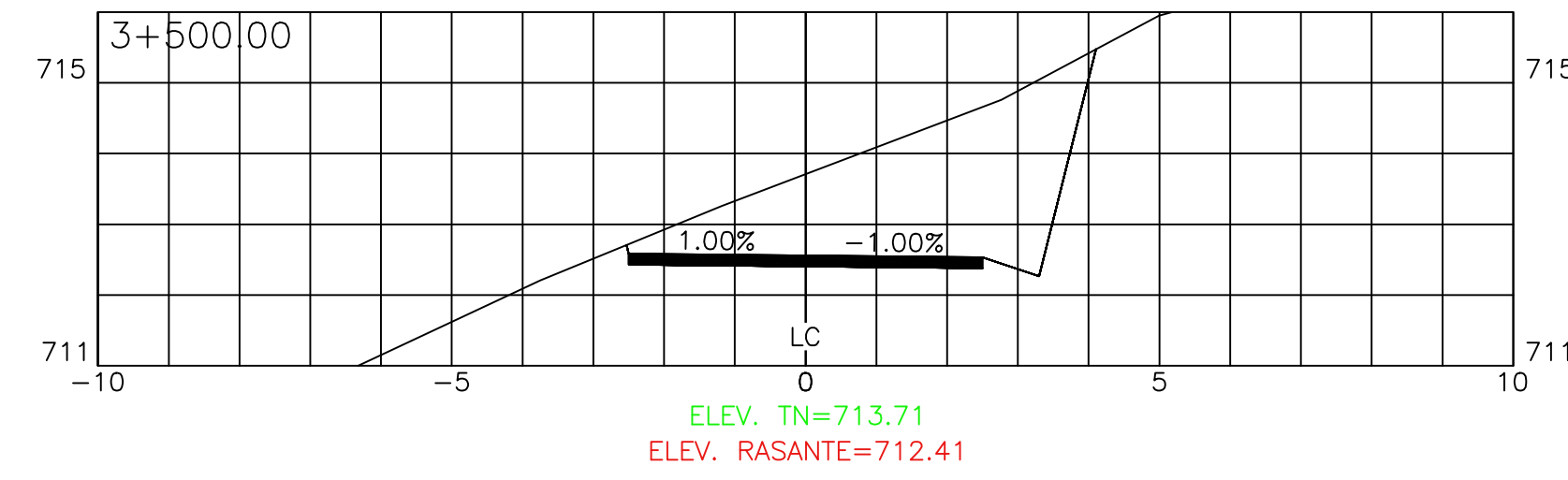
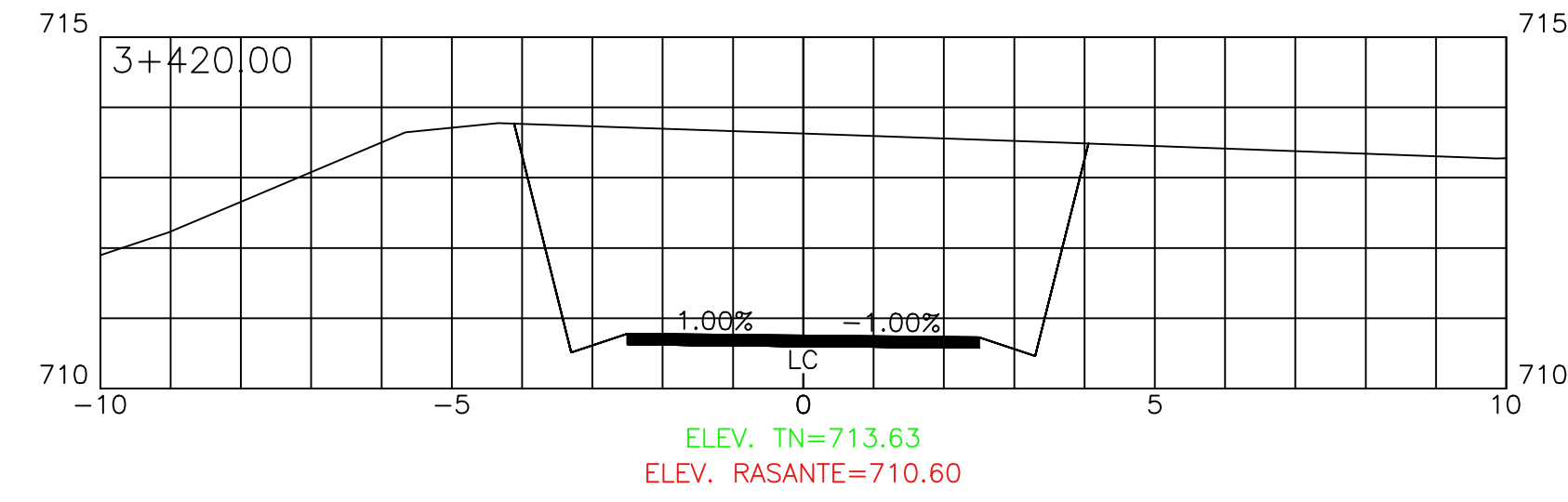
Levantó	: DIXON DIAZ	
Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028

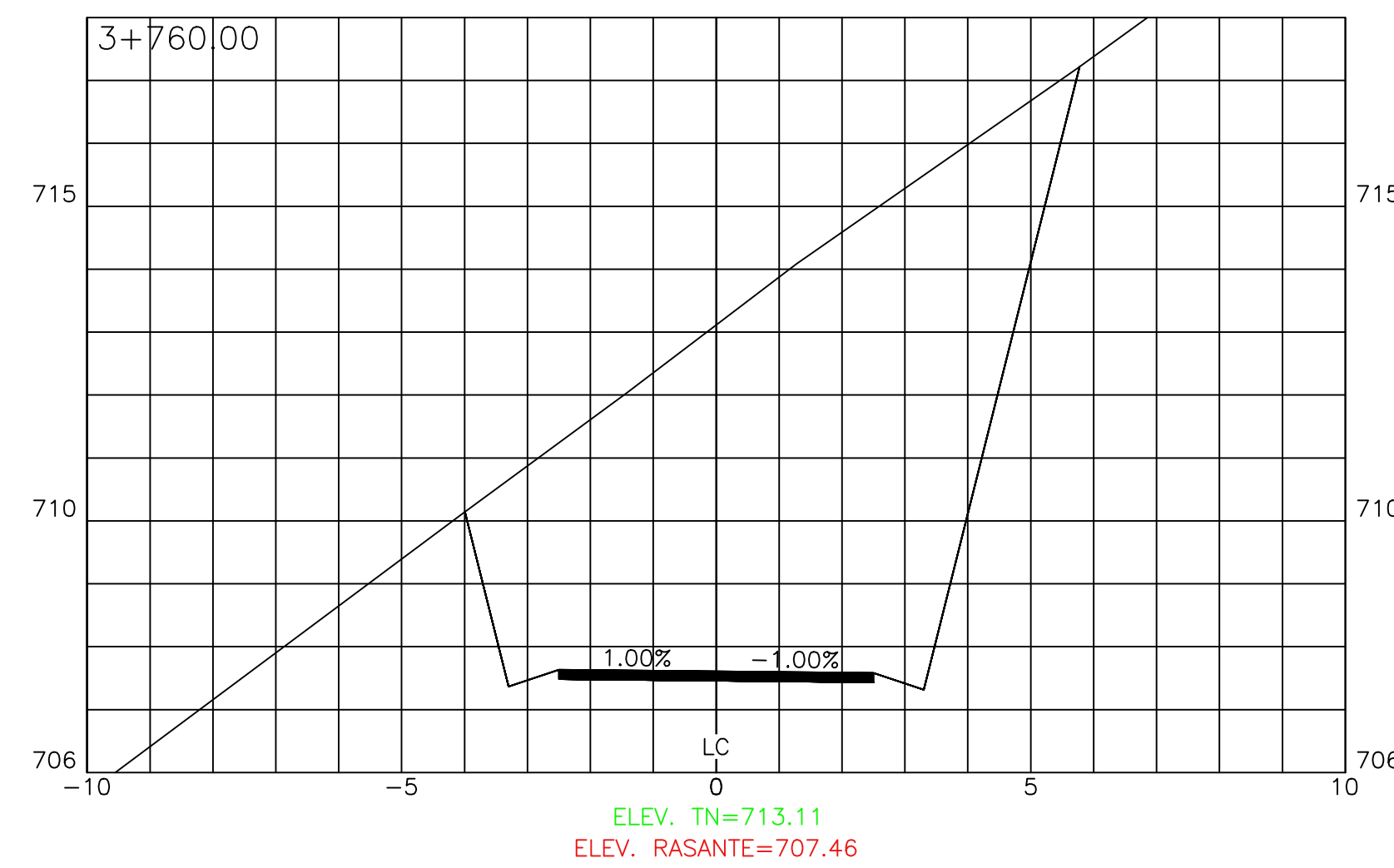
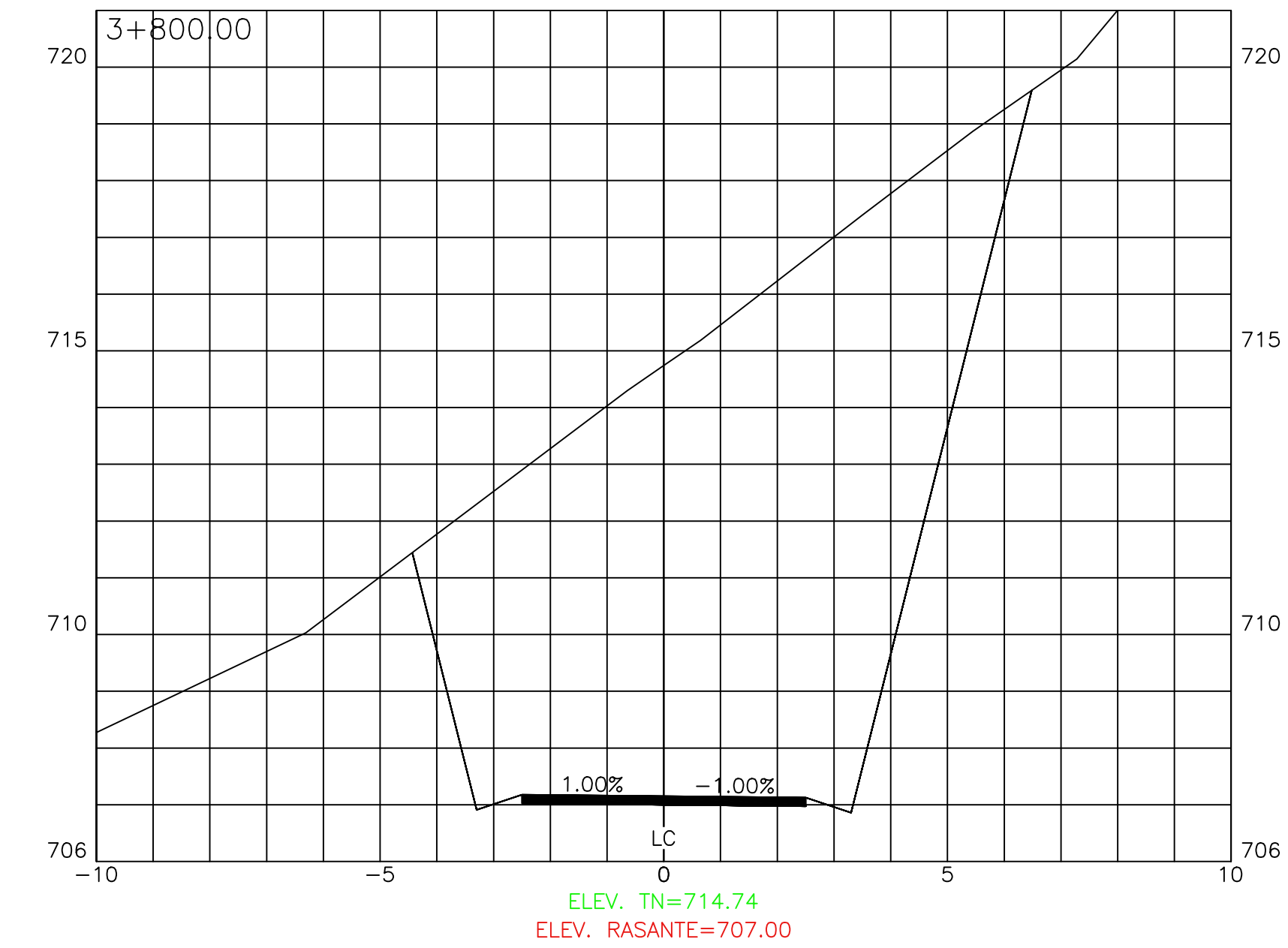
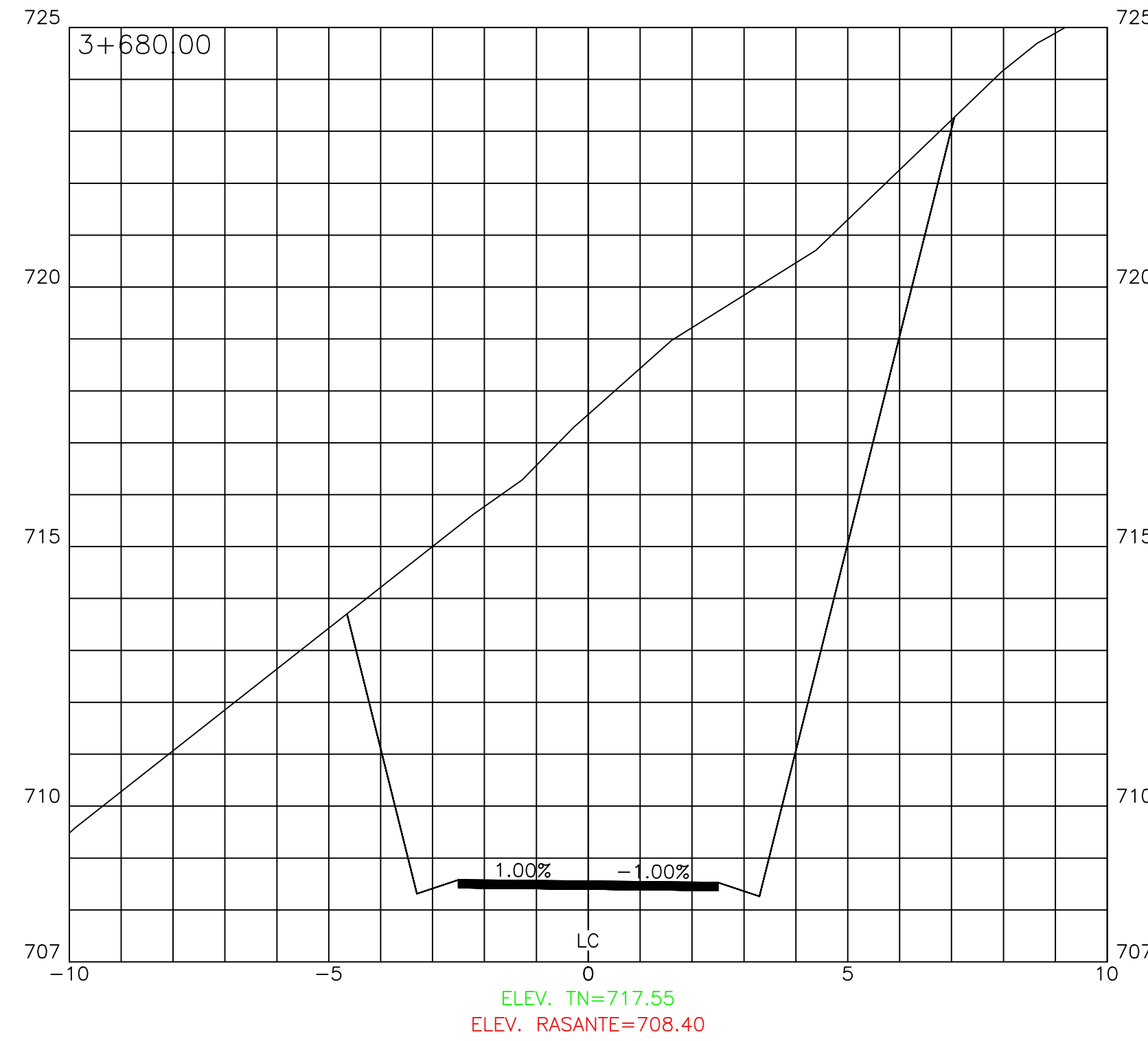
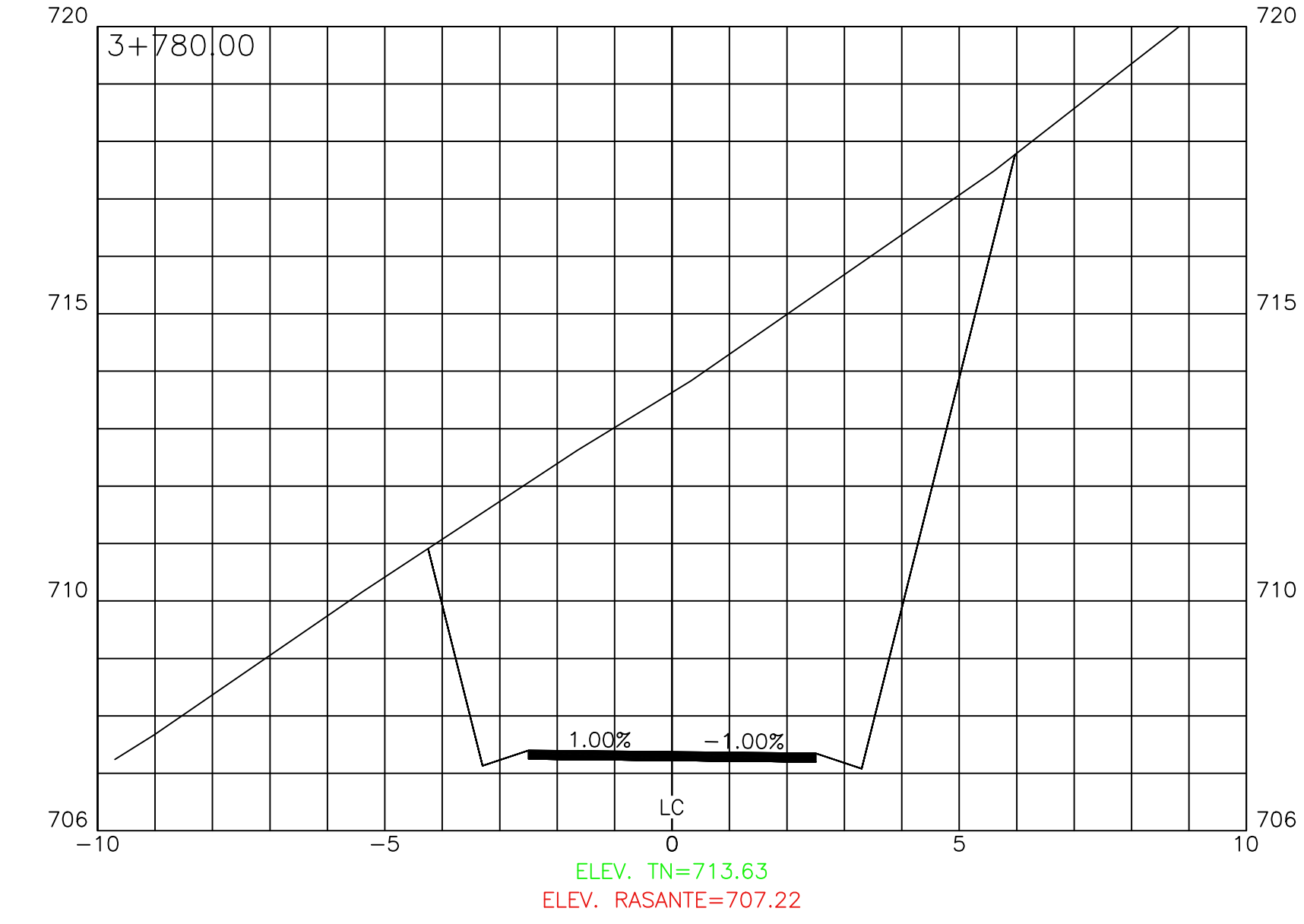
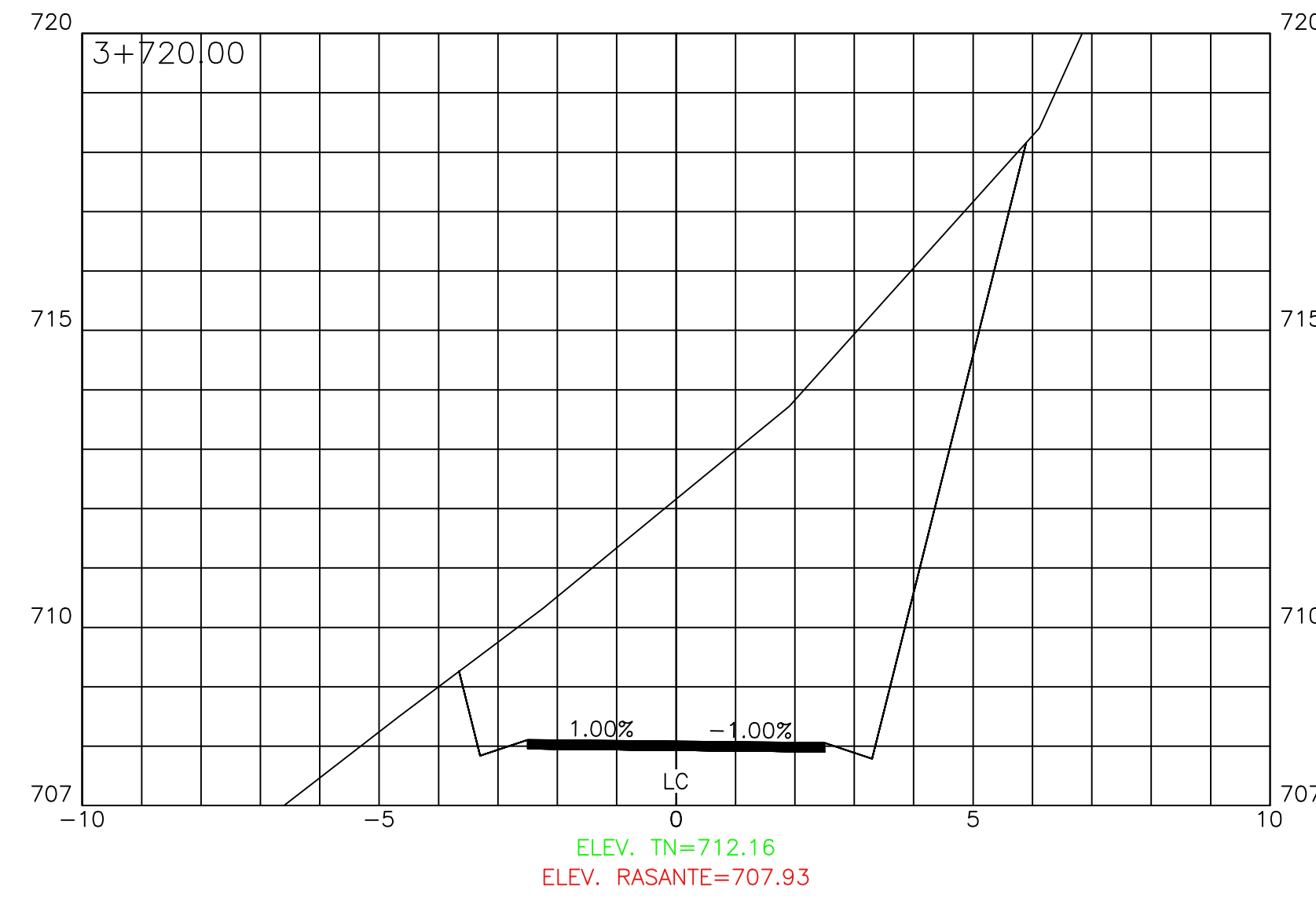
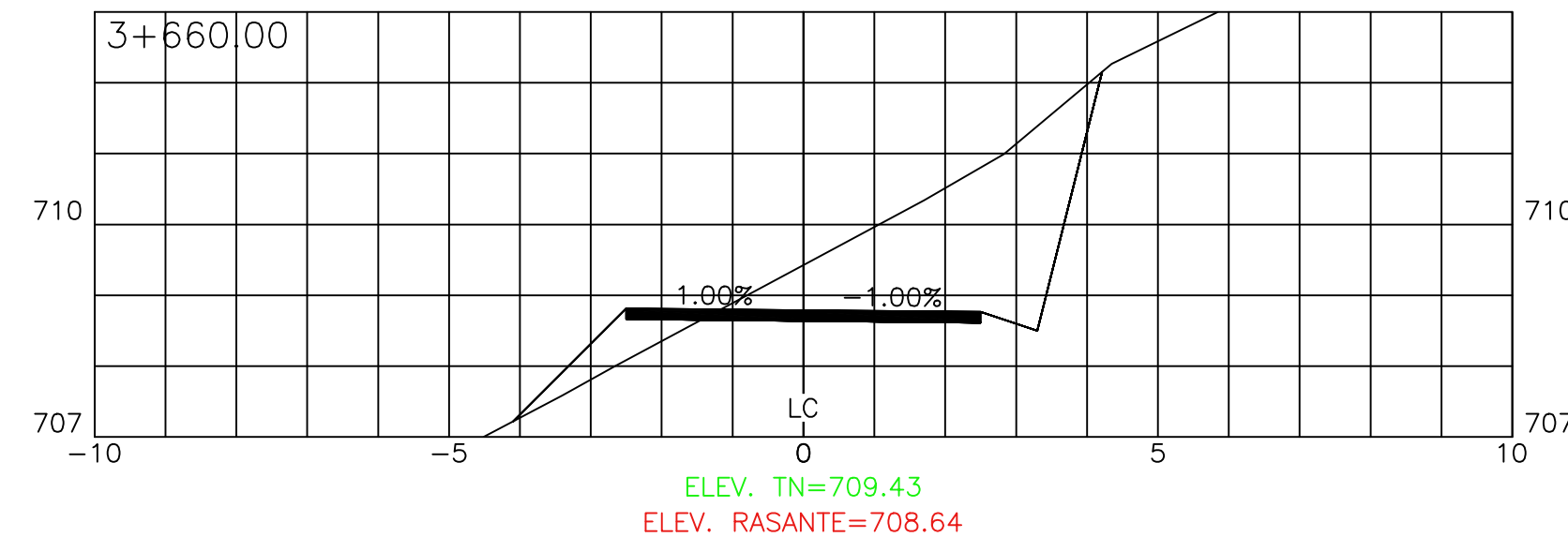




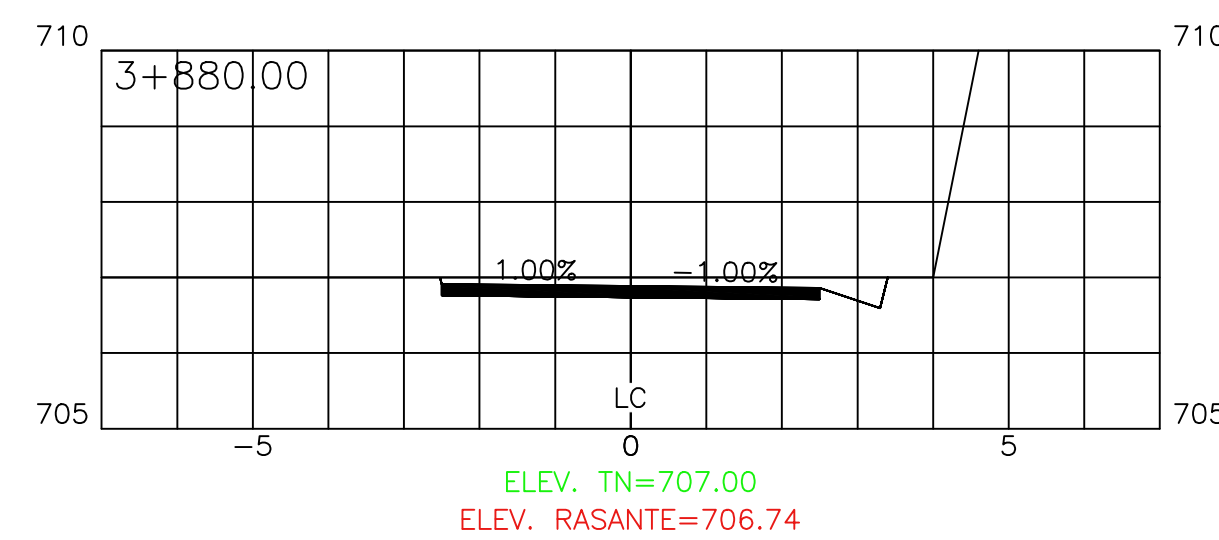
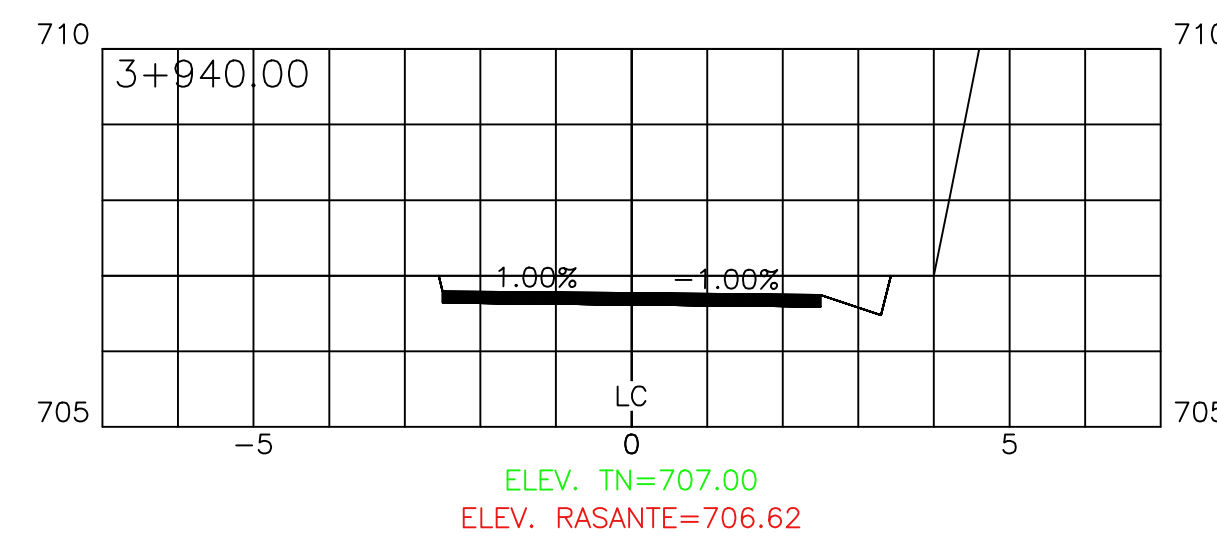
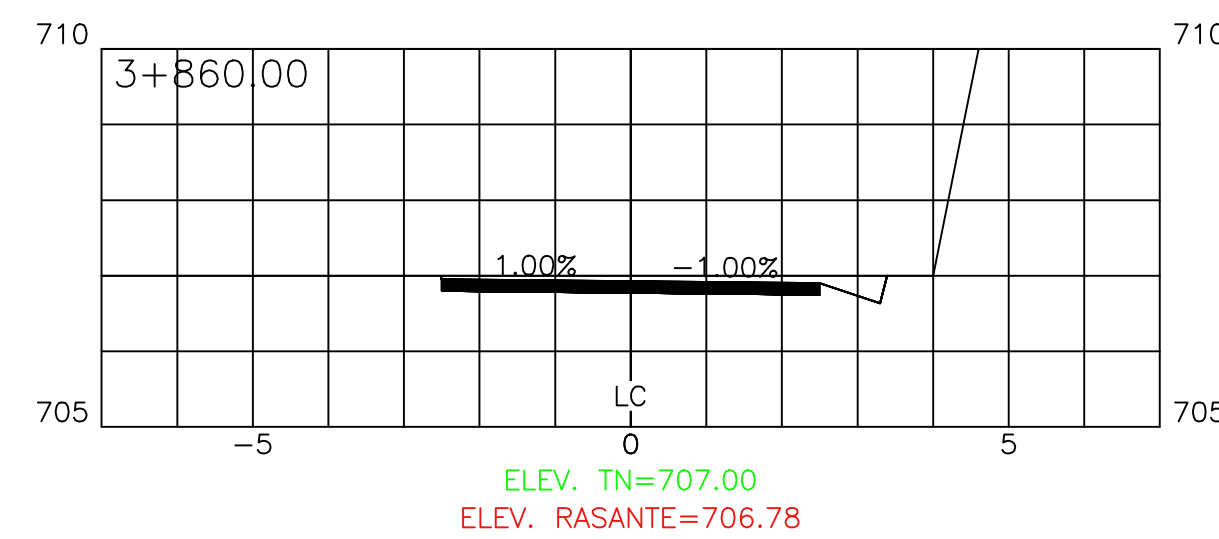
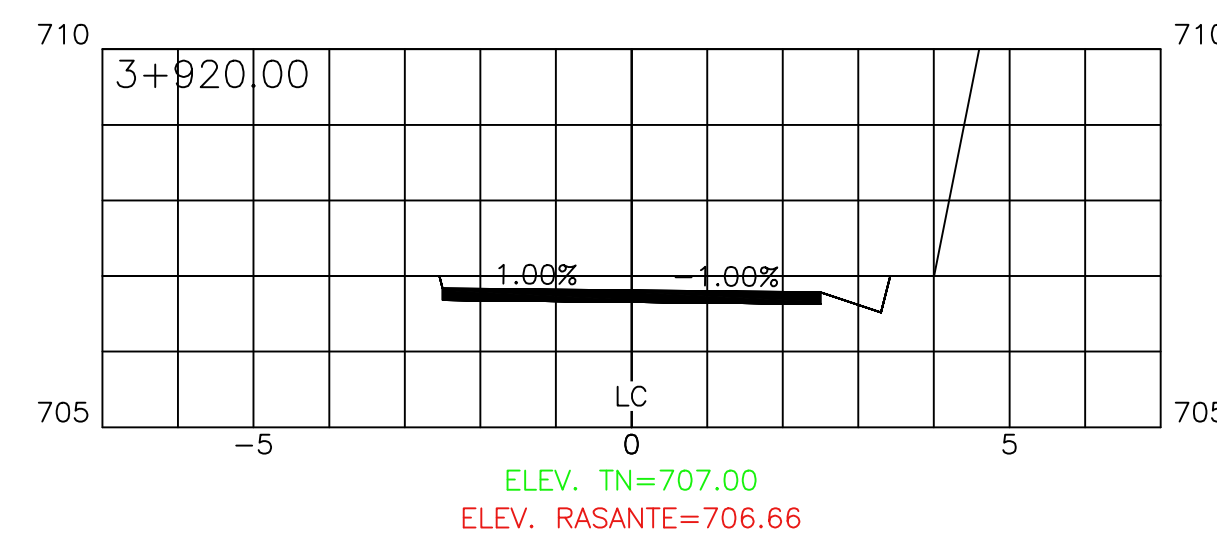
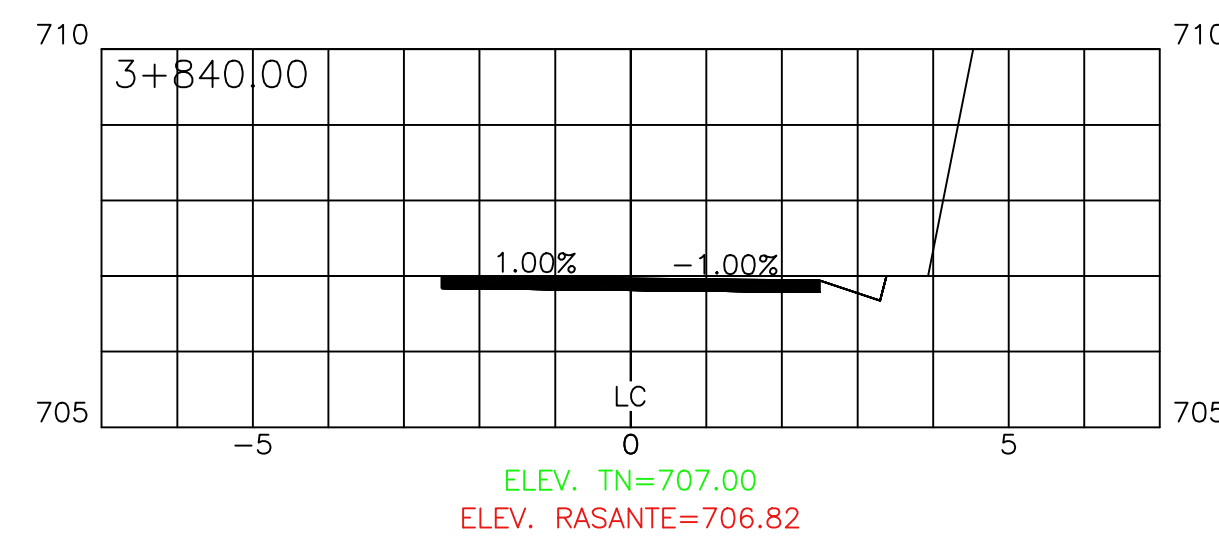
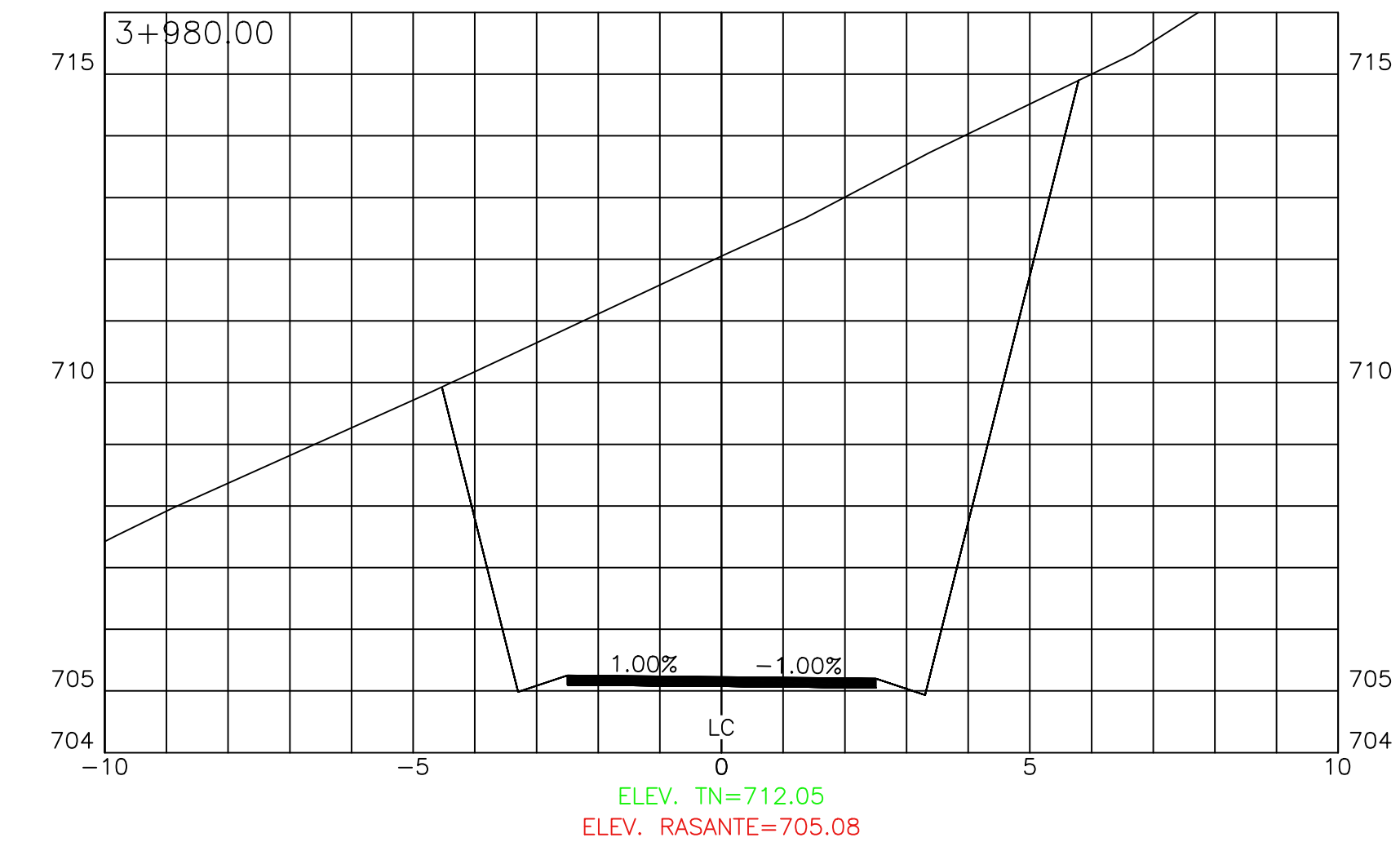
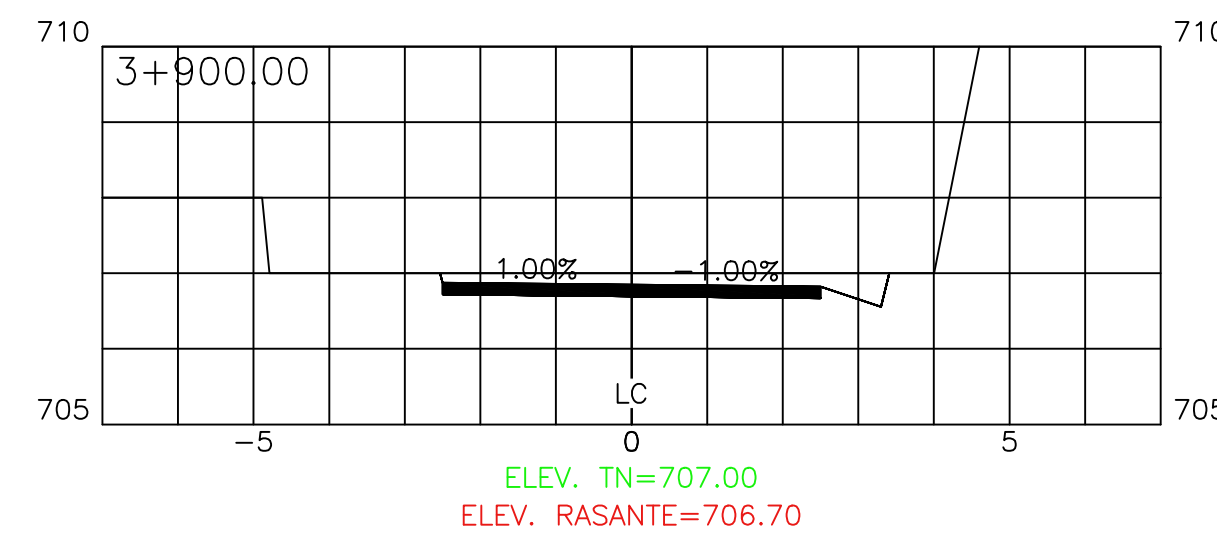
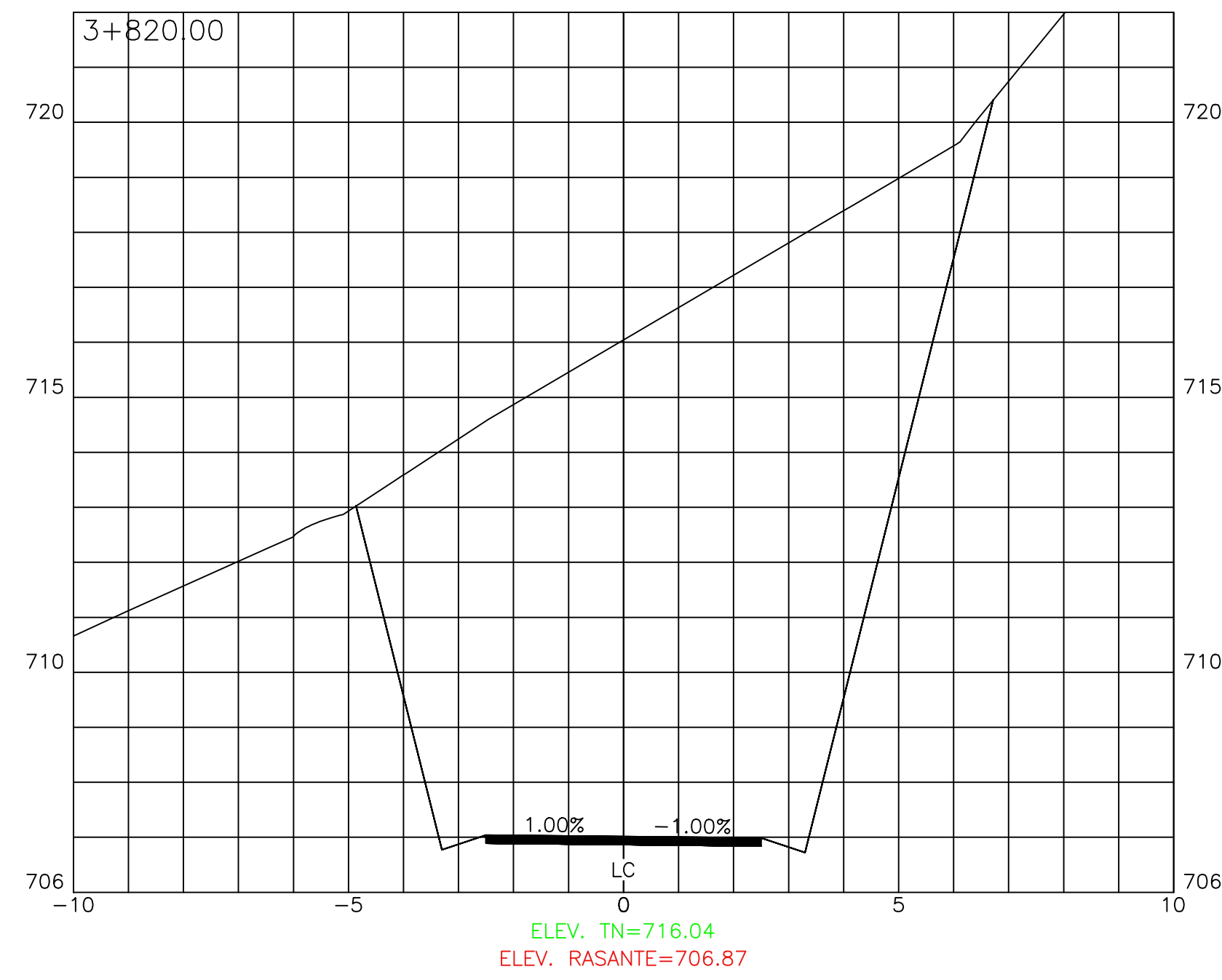


Levantó	: DIXON DIAZ	
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Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028

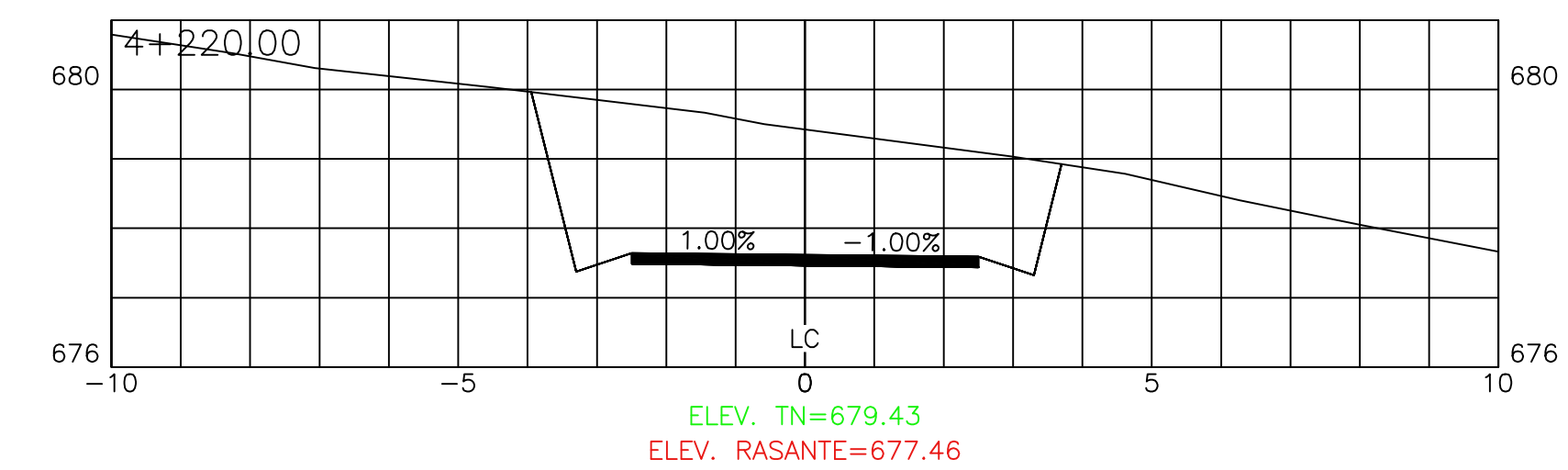
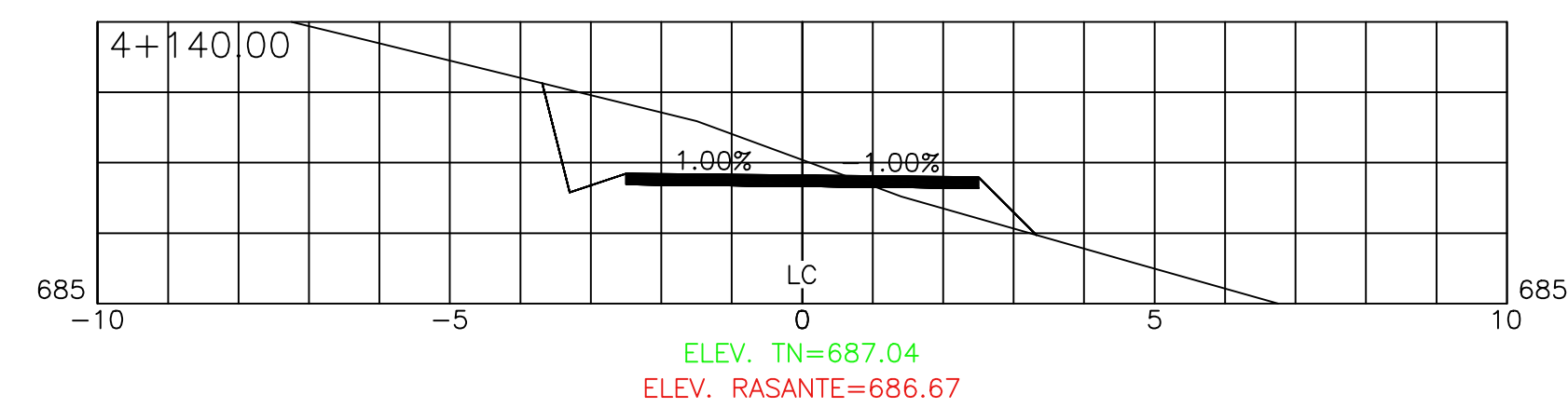
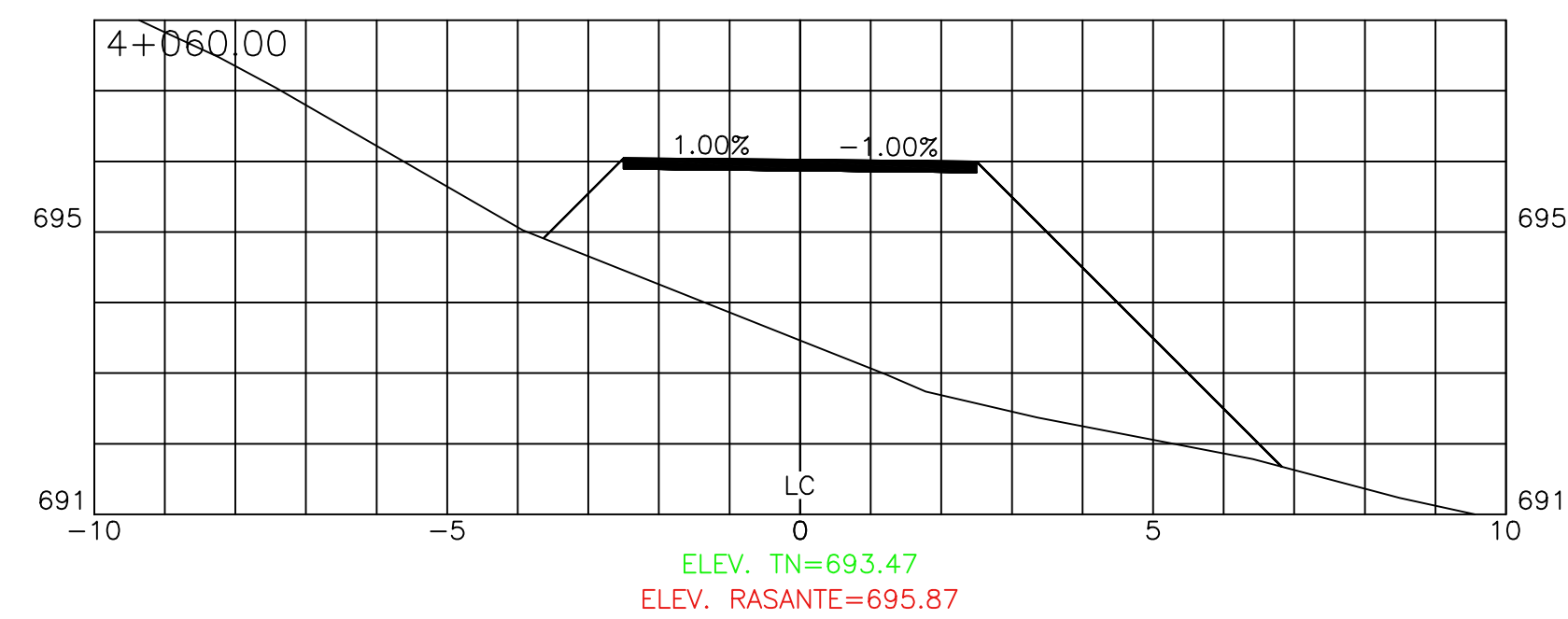
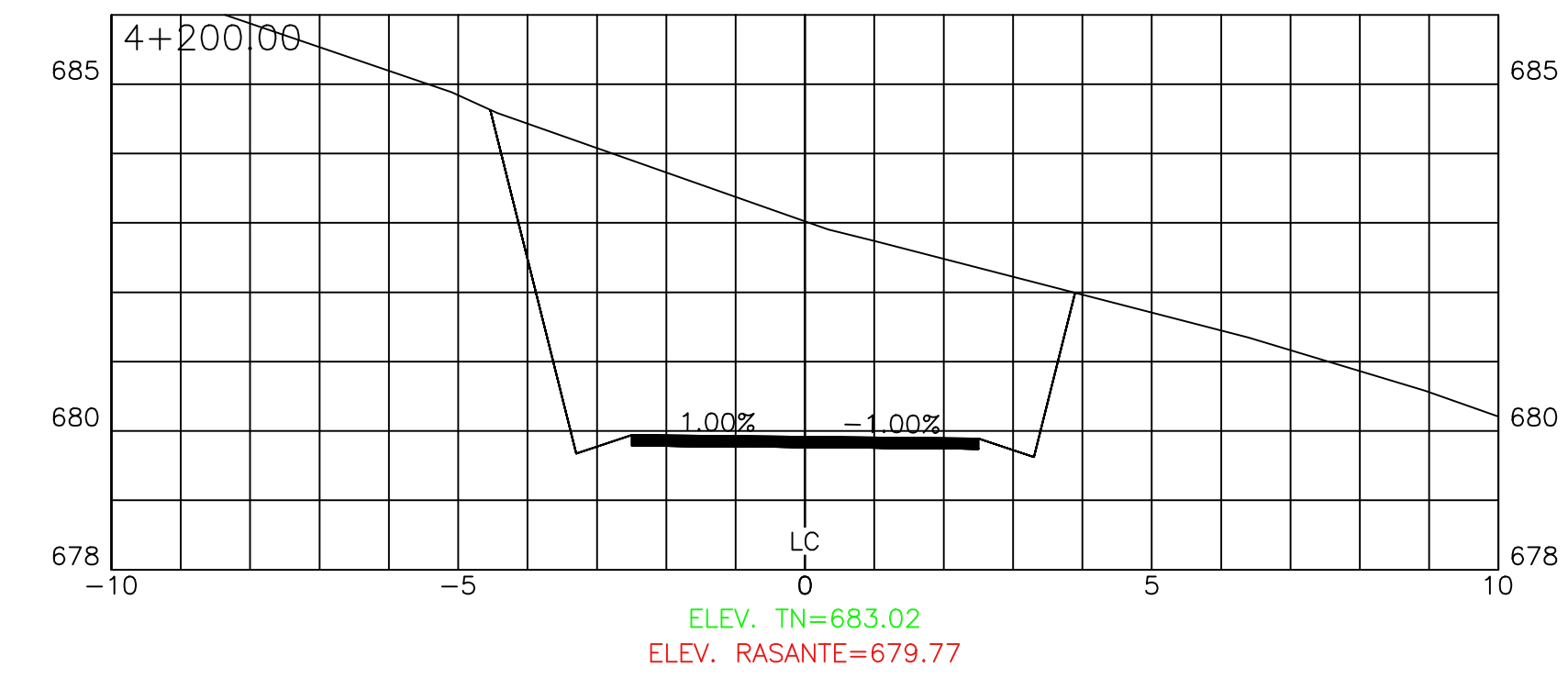
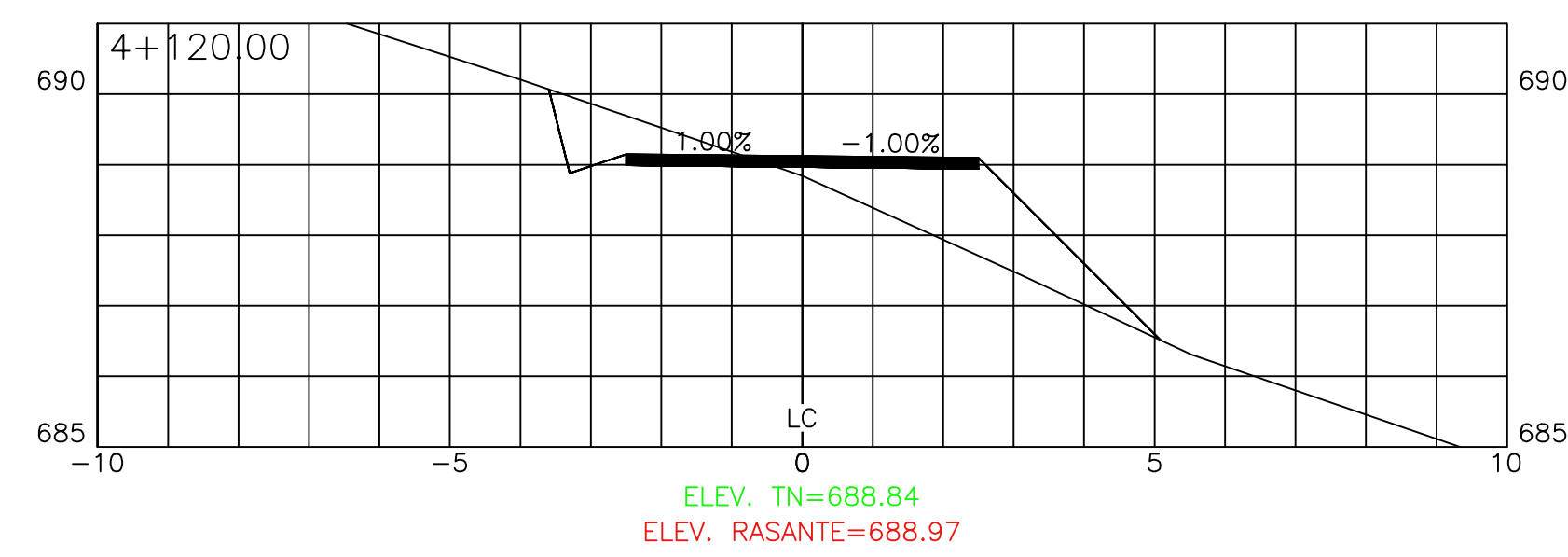
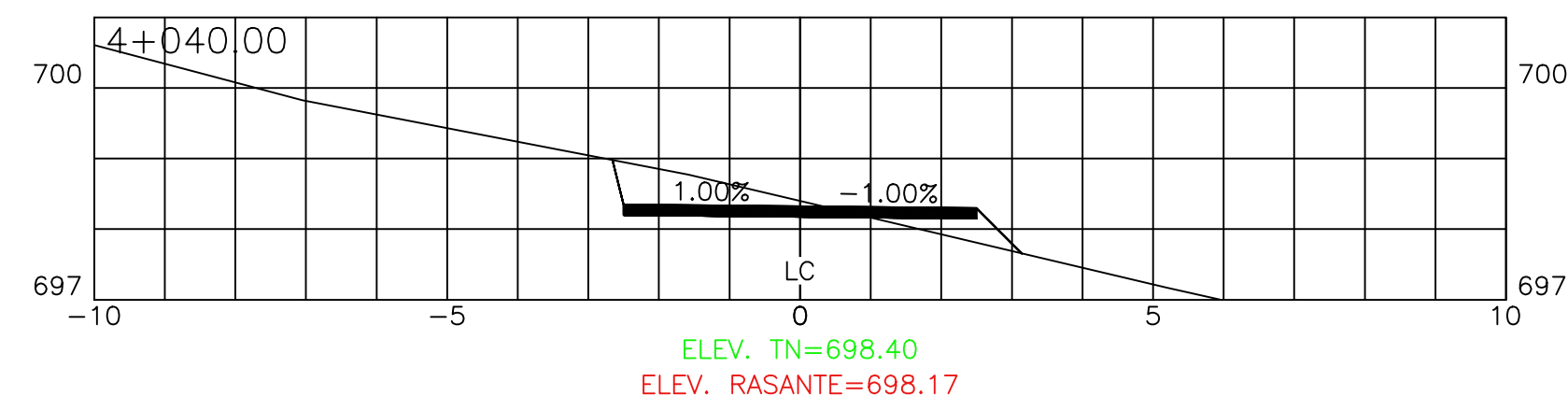
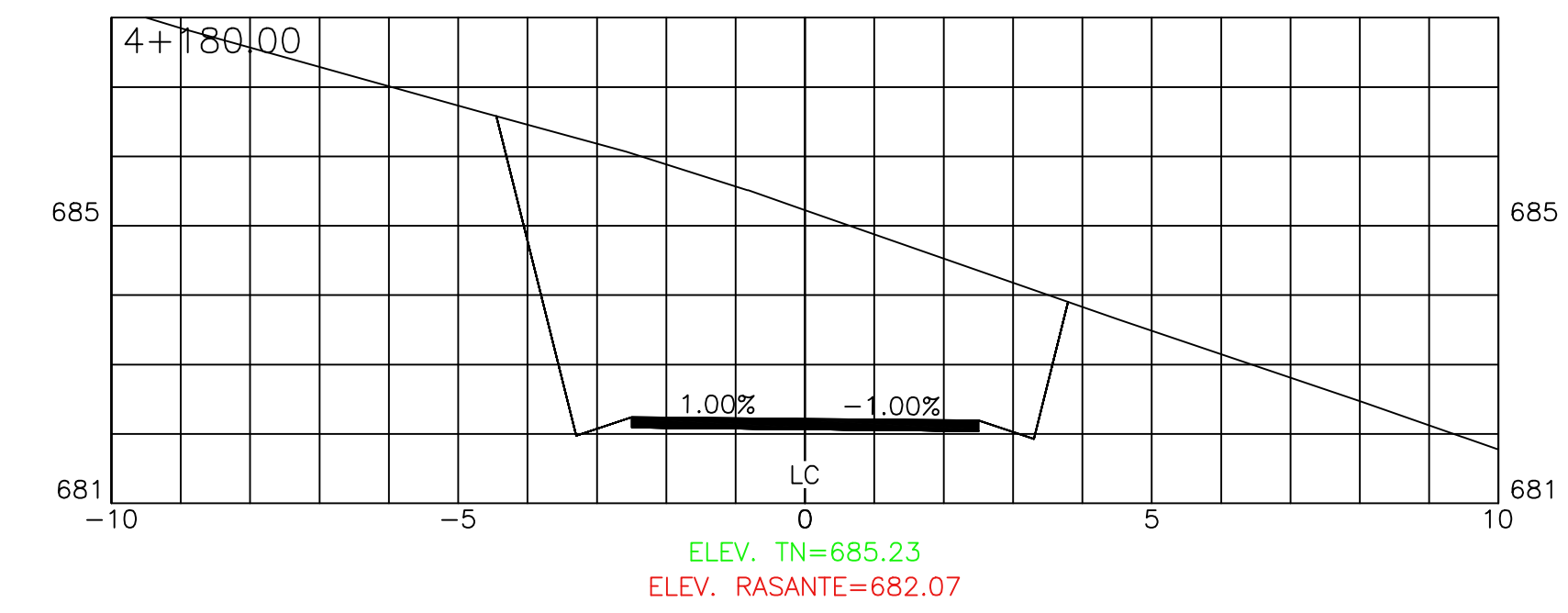
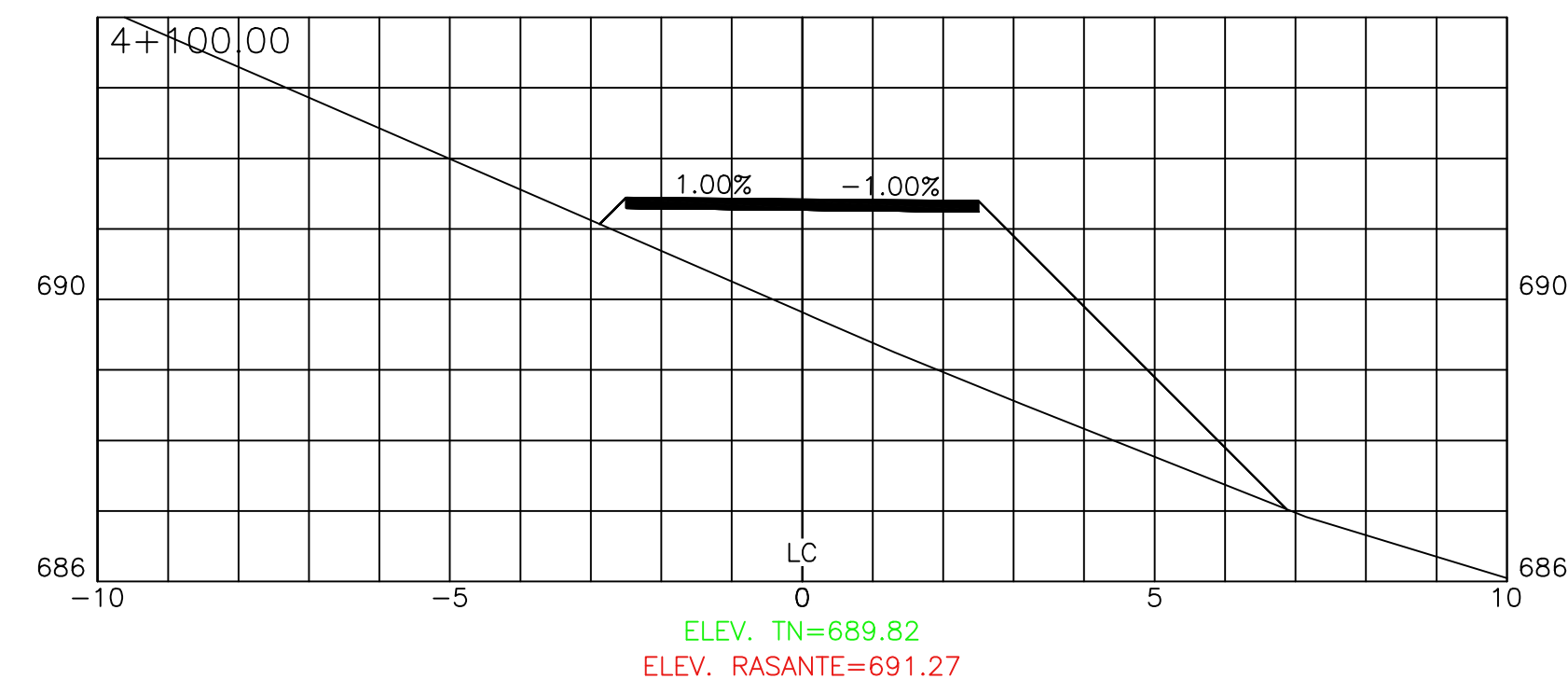
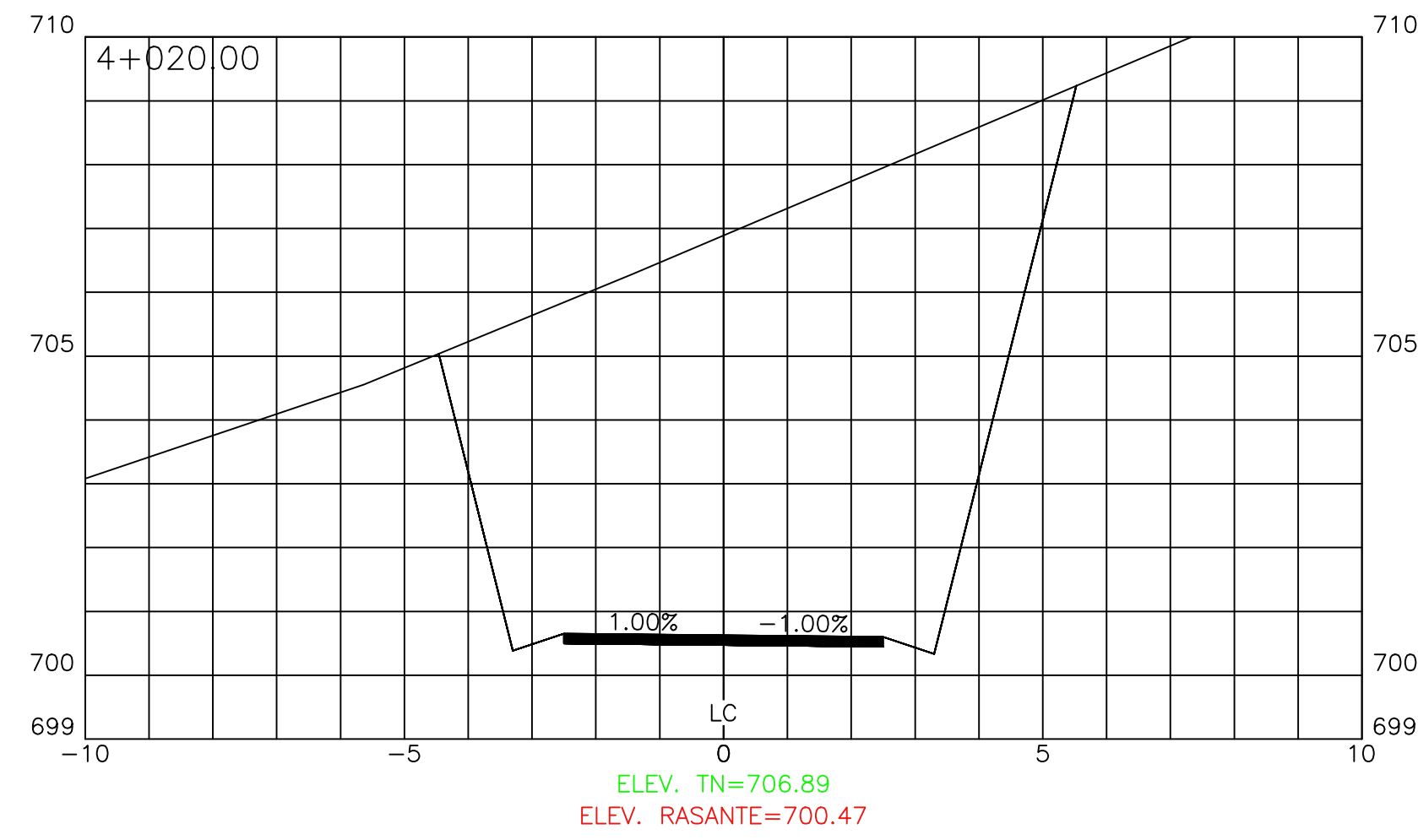
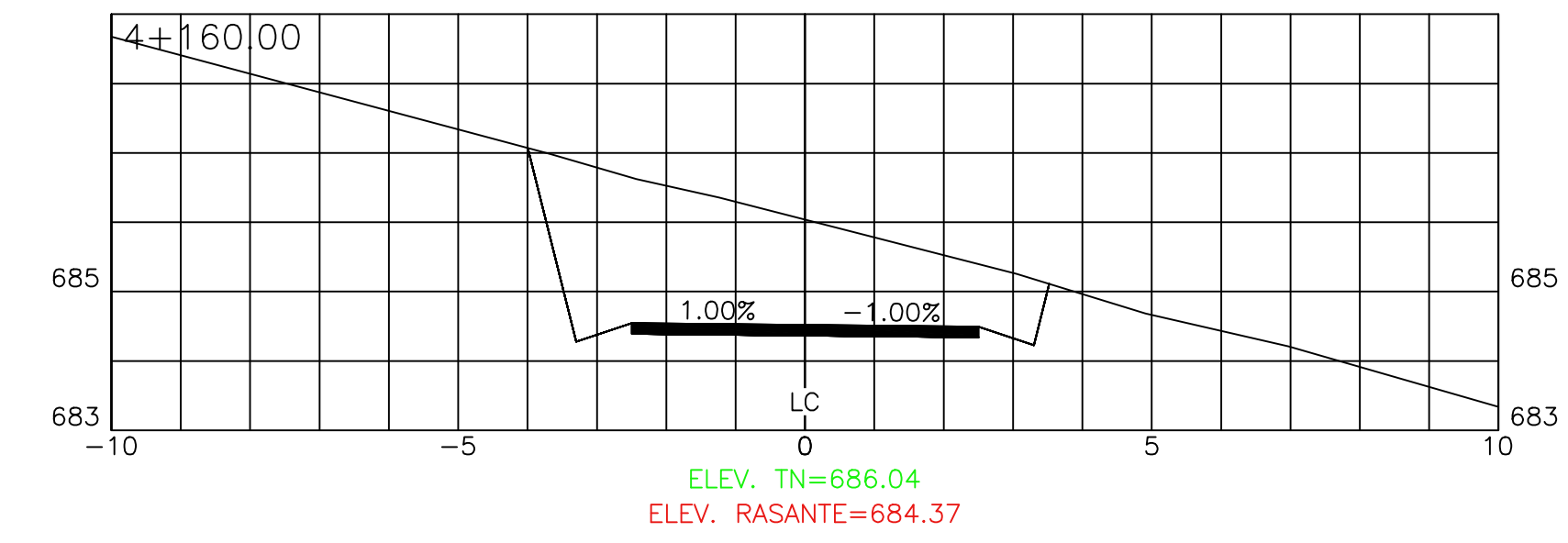
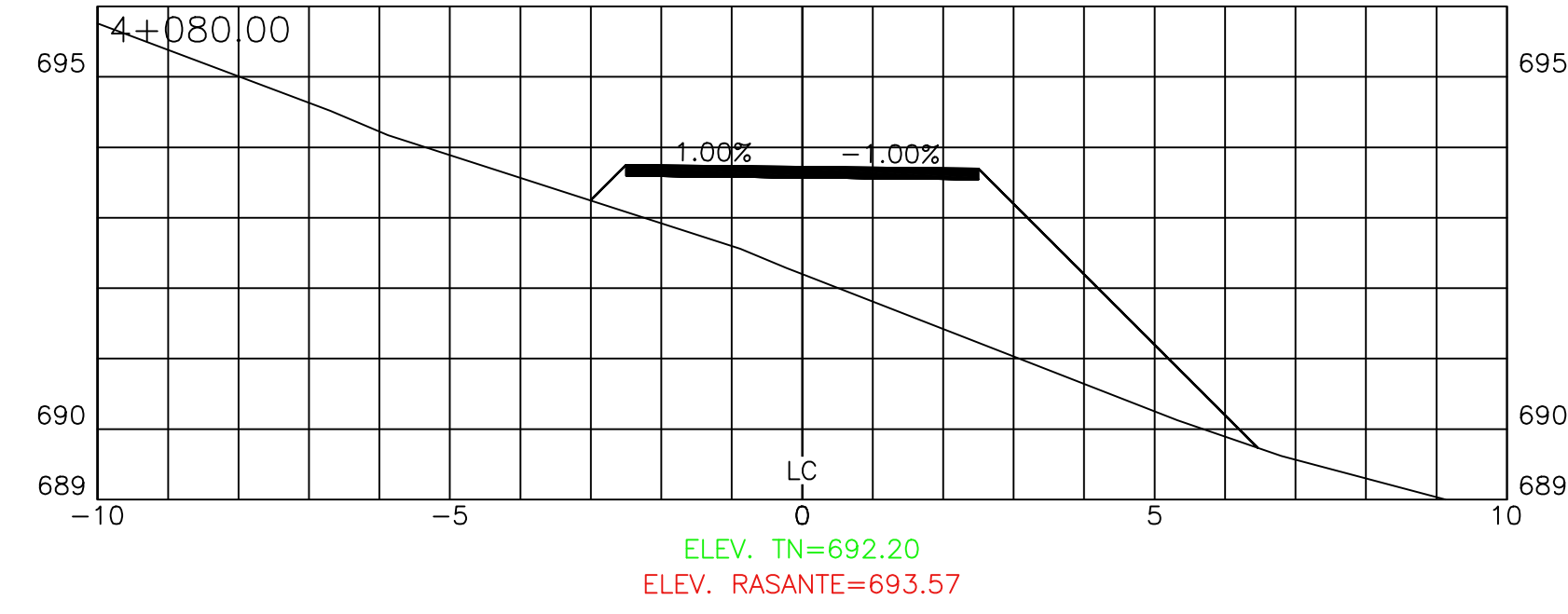
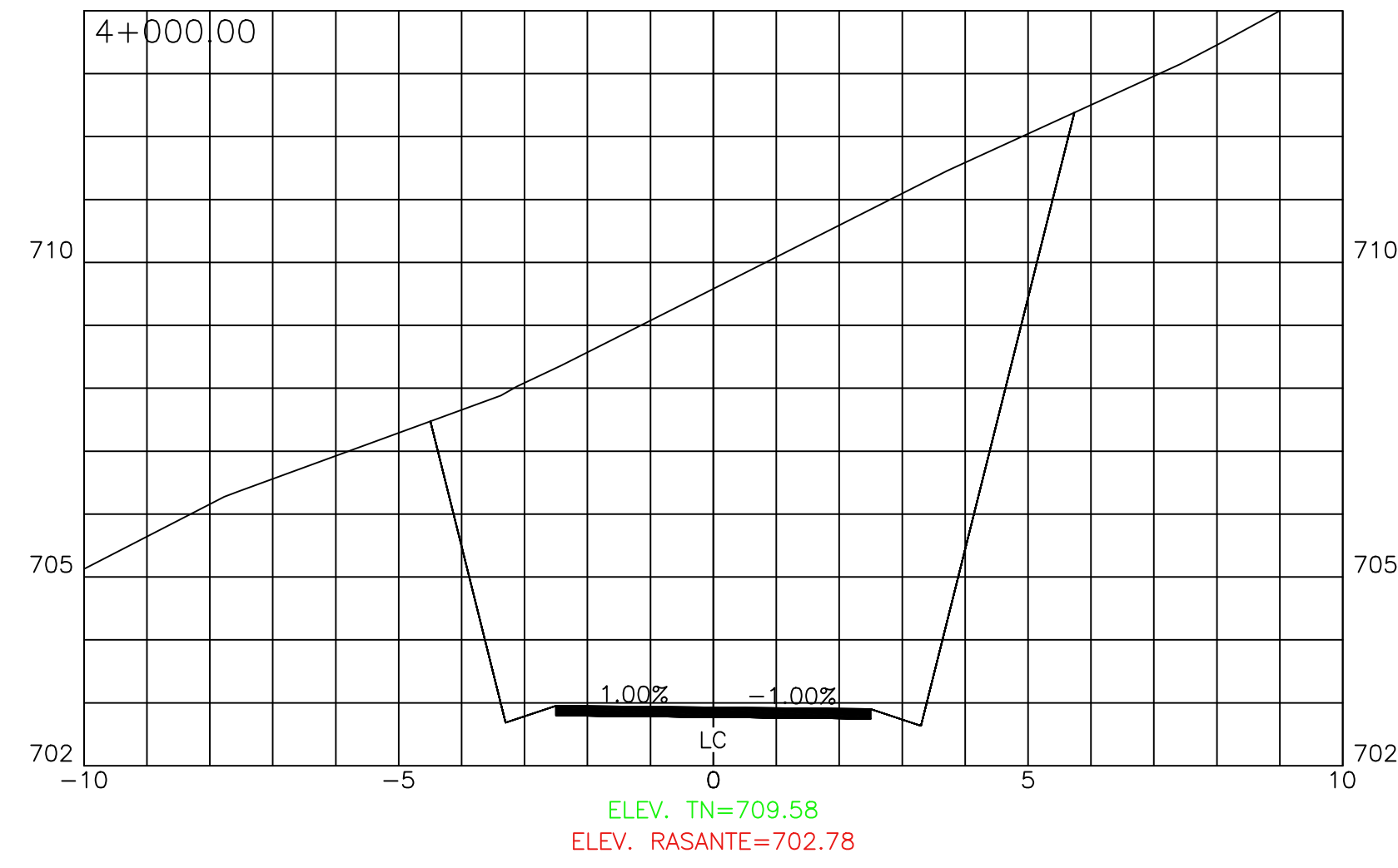




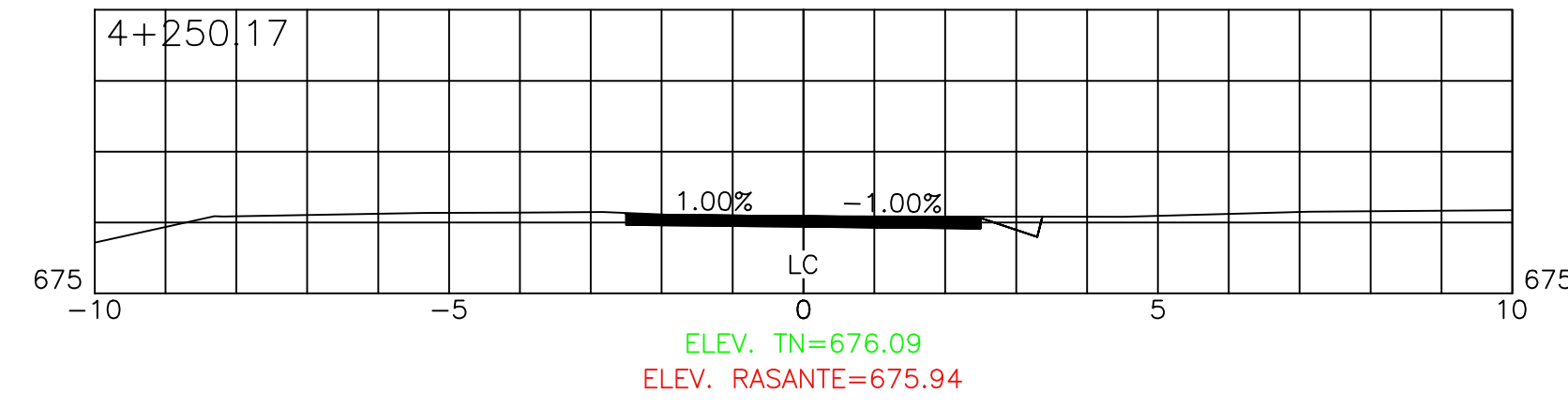
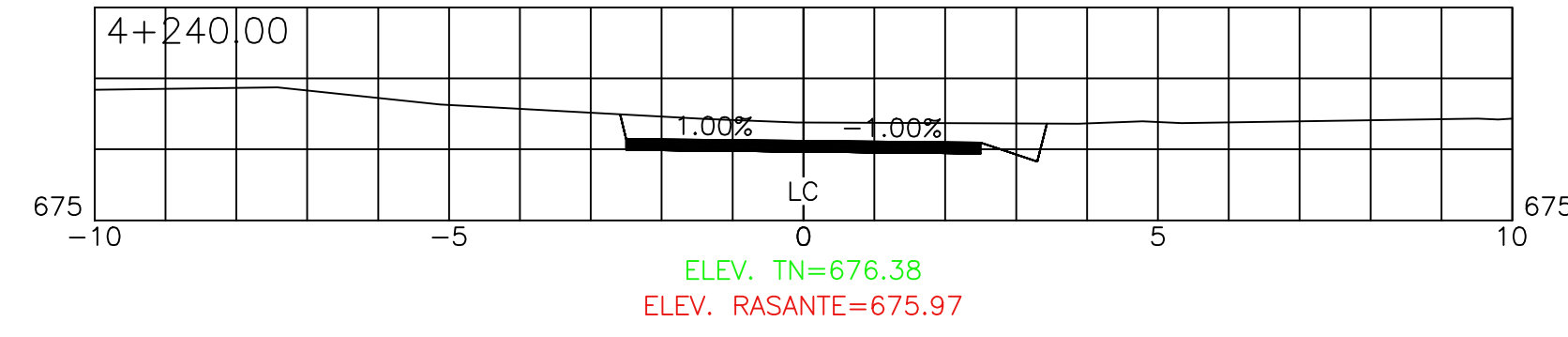
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Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028



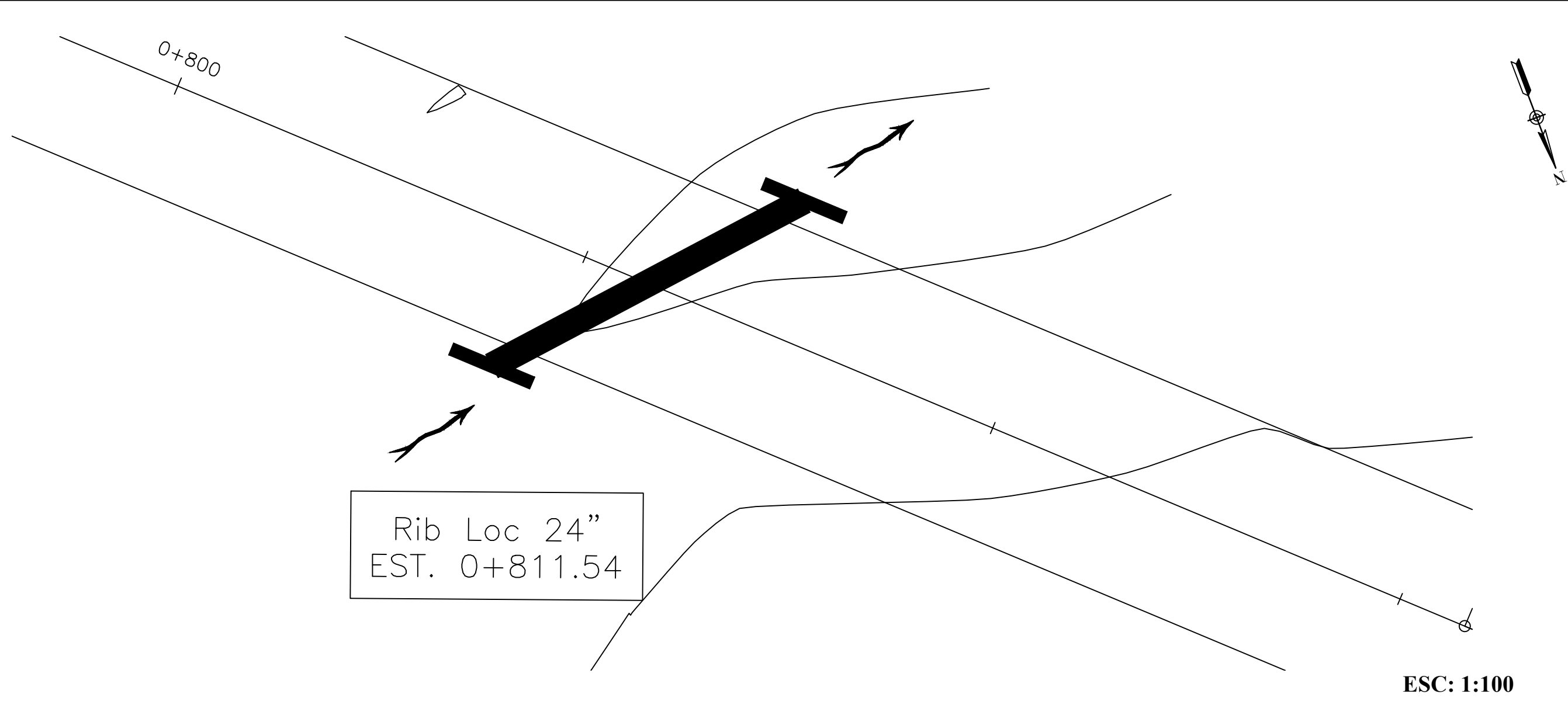
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Dibujó/Calculó	: ING. ANA IRIAS	
Proyectó	: ING. OSCAR ESPINO	CICH 4584
Revisó	: ING. MANUEL CONDE CUEVAS	CICH 4028
Aprobó	: ING. MANUE CONDE CUEVAS	CICH 4028



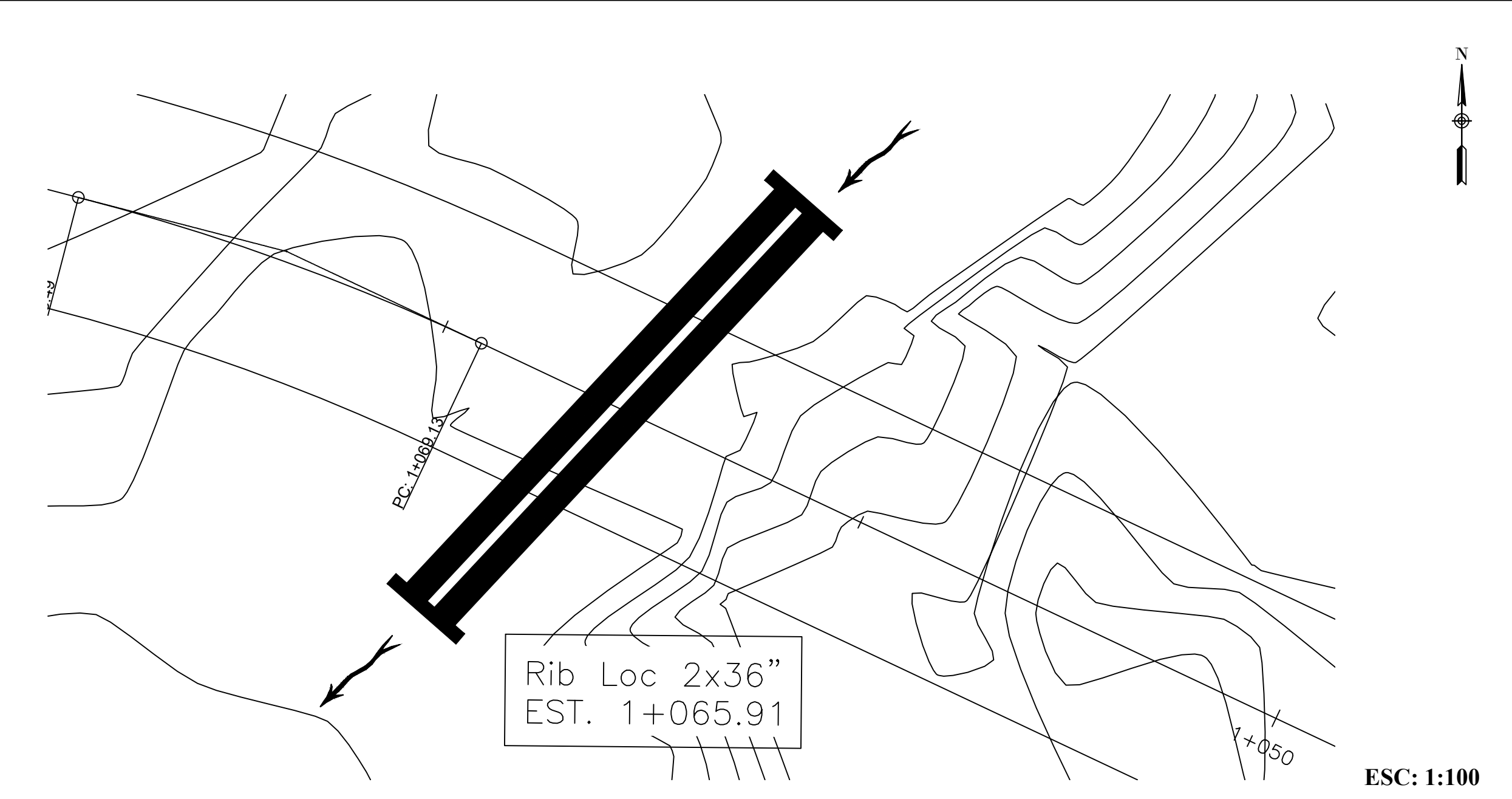
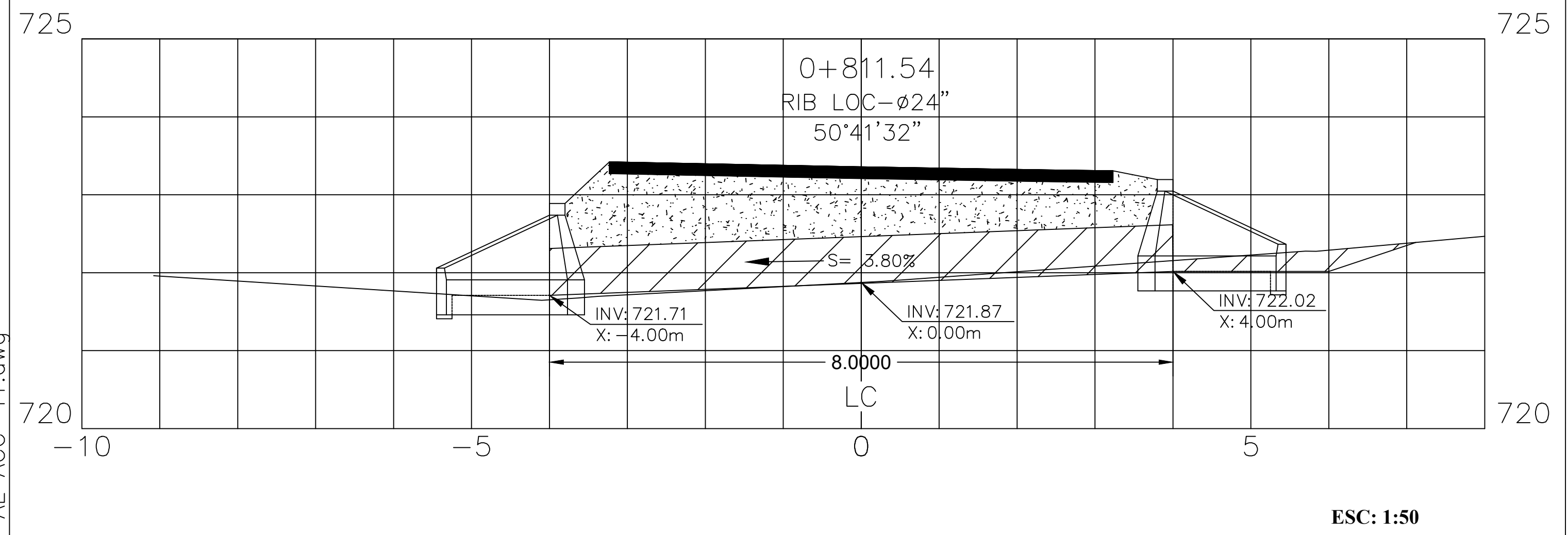
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Proyectó	:	ING. OSCAR ESPINO	CICH 4584
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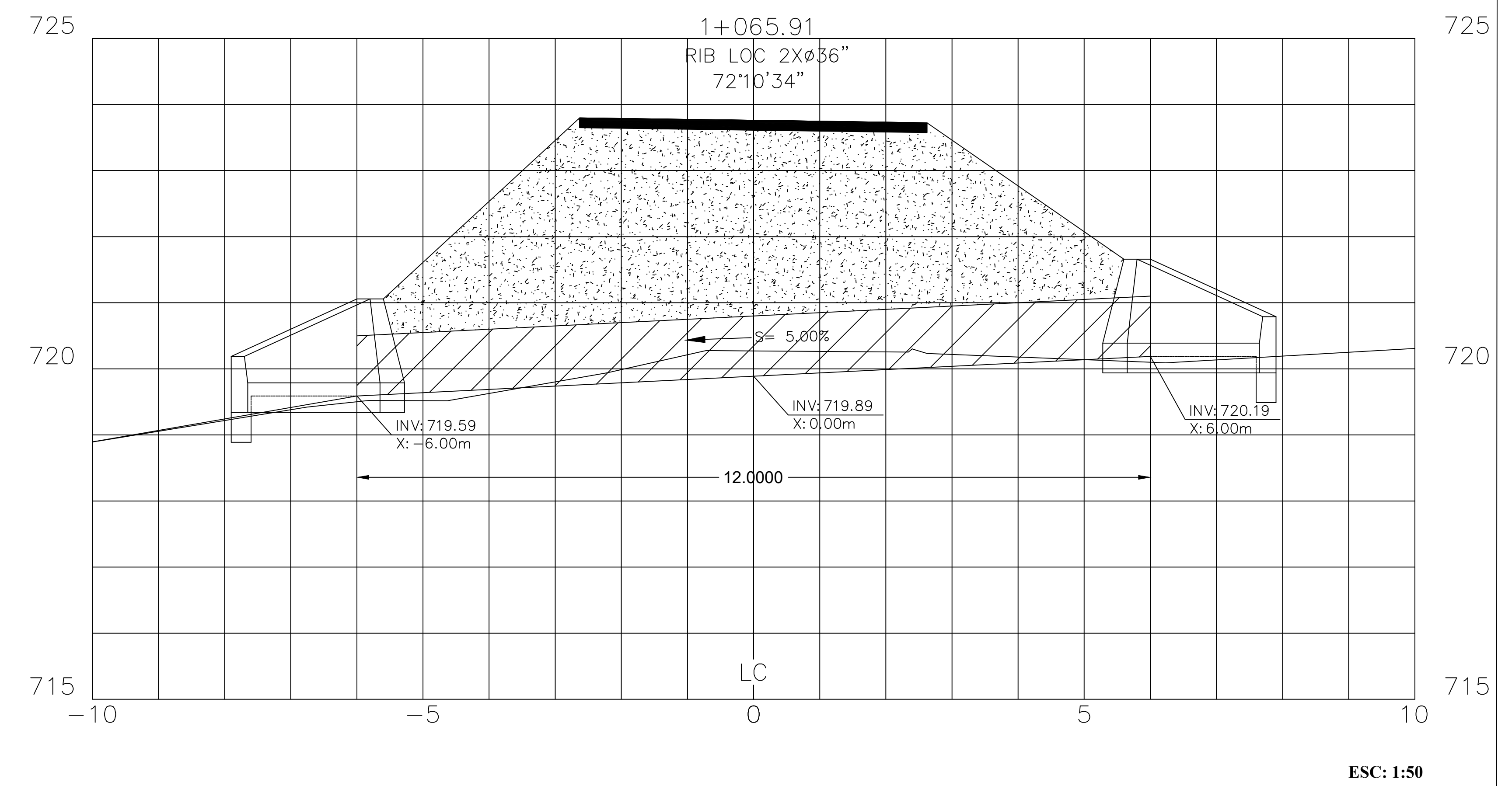
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Proyectó	: ING. OSCAR ESPINO	CICH 4584
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Aprobó	: ING. MANUEL CONDE CUEVAS	CICH 4028



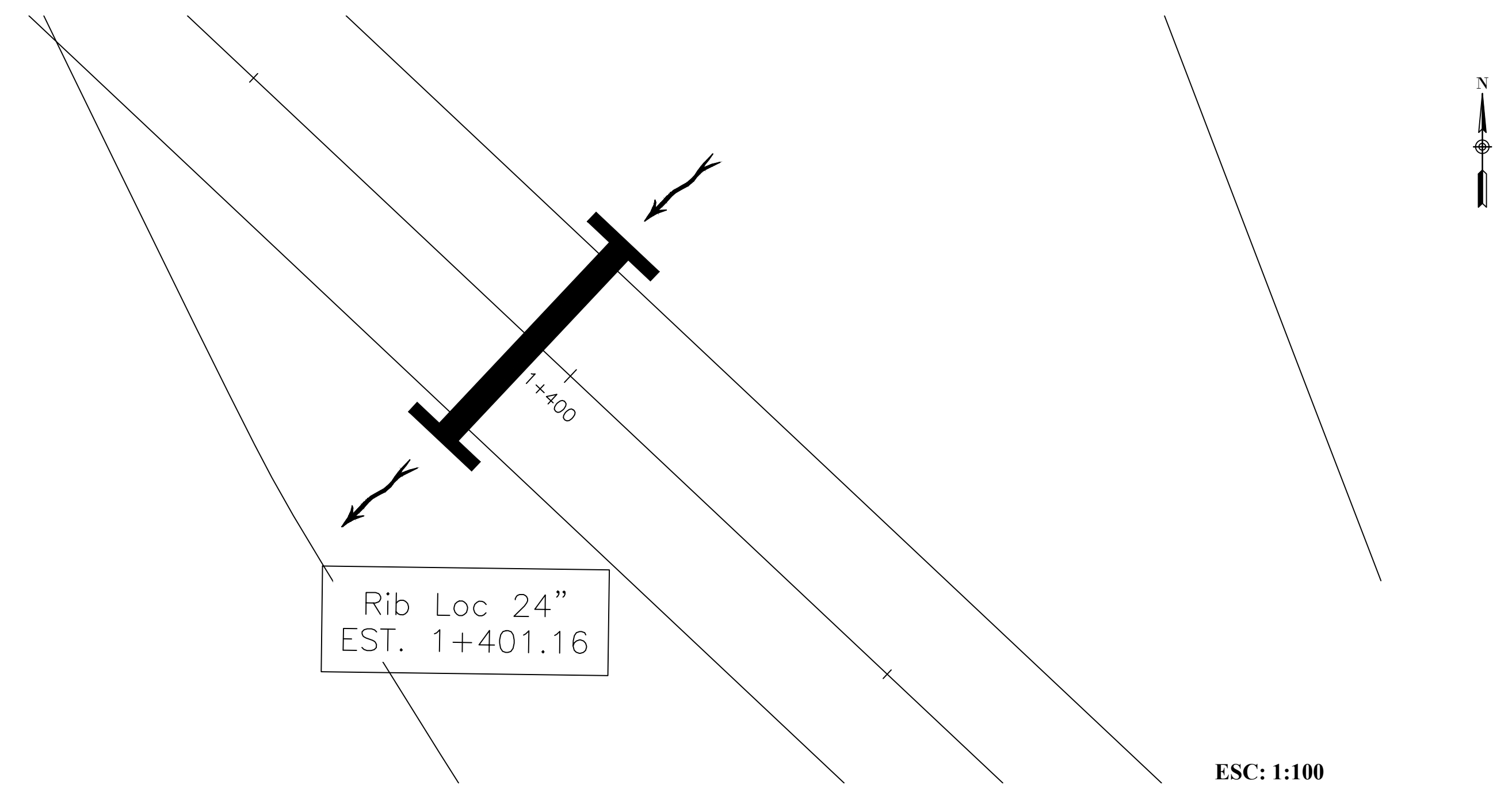
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
1	ALCANTARILLA	0+811.54	442957.10	1582217.76	RIB LOC 24"	50°41'32"	722.02	721.87	721.71	8	3.87	D-I	1	1	Acondicionar entrada y salida.



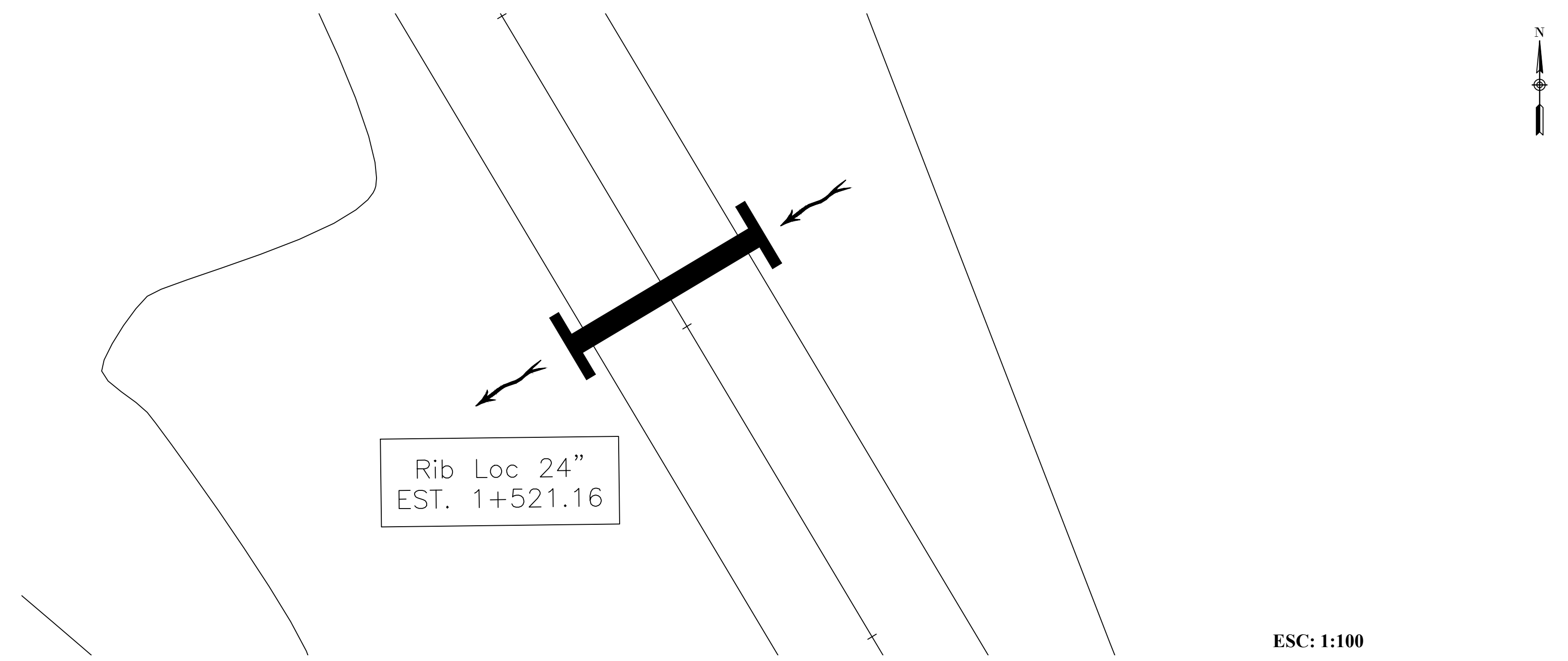
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2	ALCANTARILLA	1+065.91	442752.93	1582364.45	2XRIB LOC 36"	72°10'34"	720.19	719.89	719.59	12	5.00	D-I	1	1	Acondicionar entrada y salida.



OCTUBRE 2020 DEL ACC-30 AL ACC-41.dwg



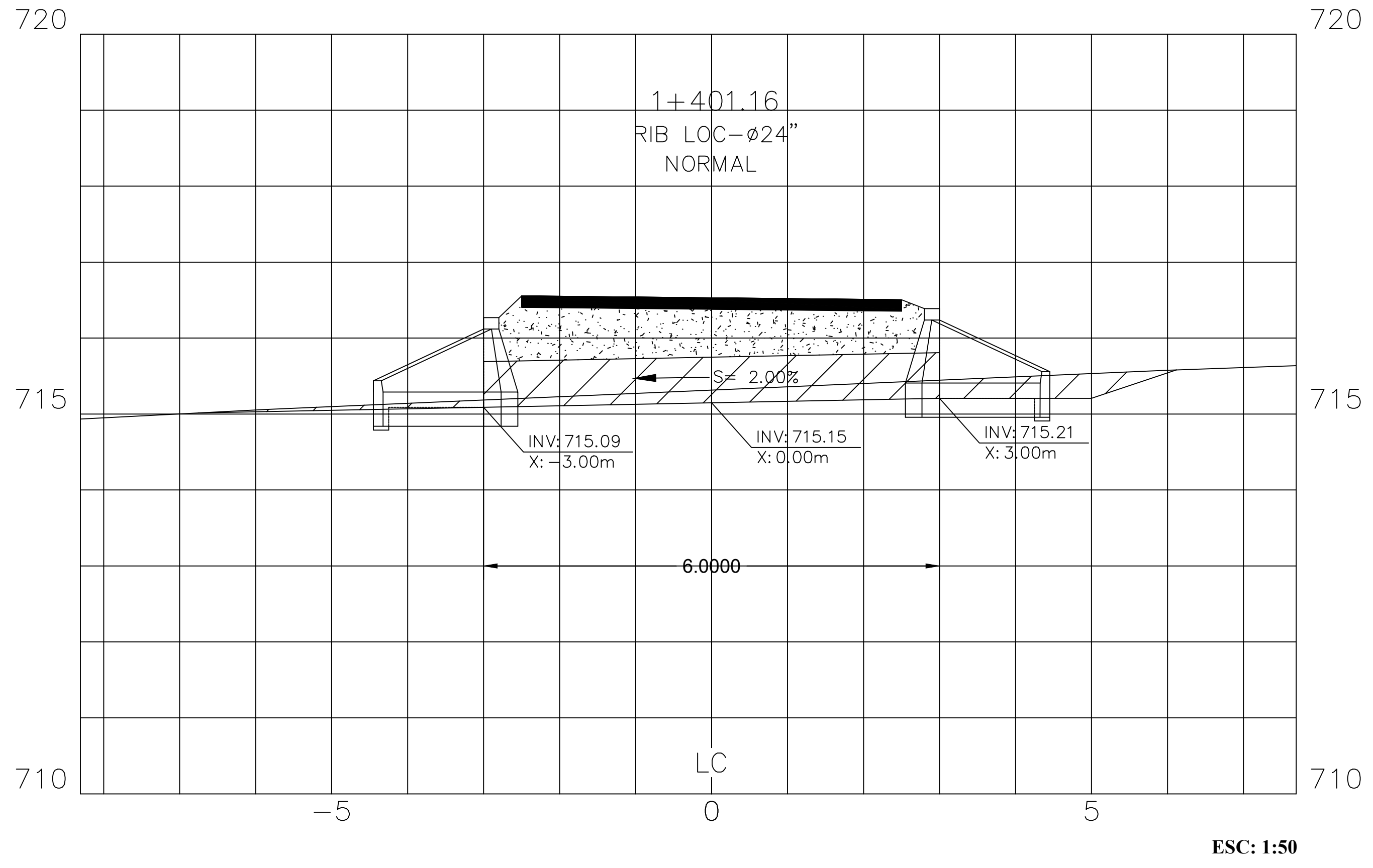
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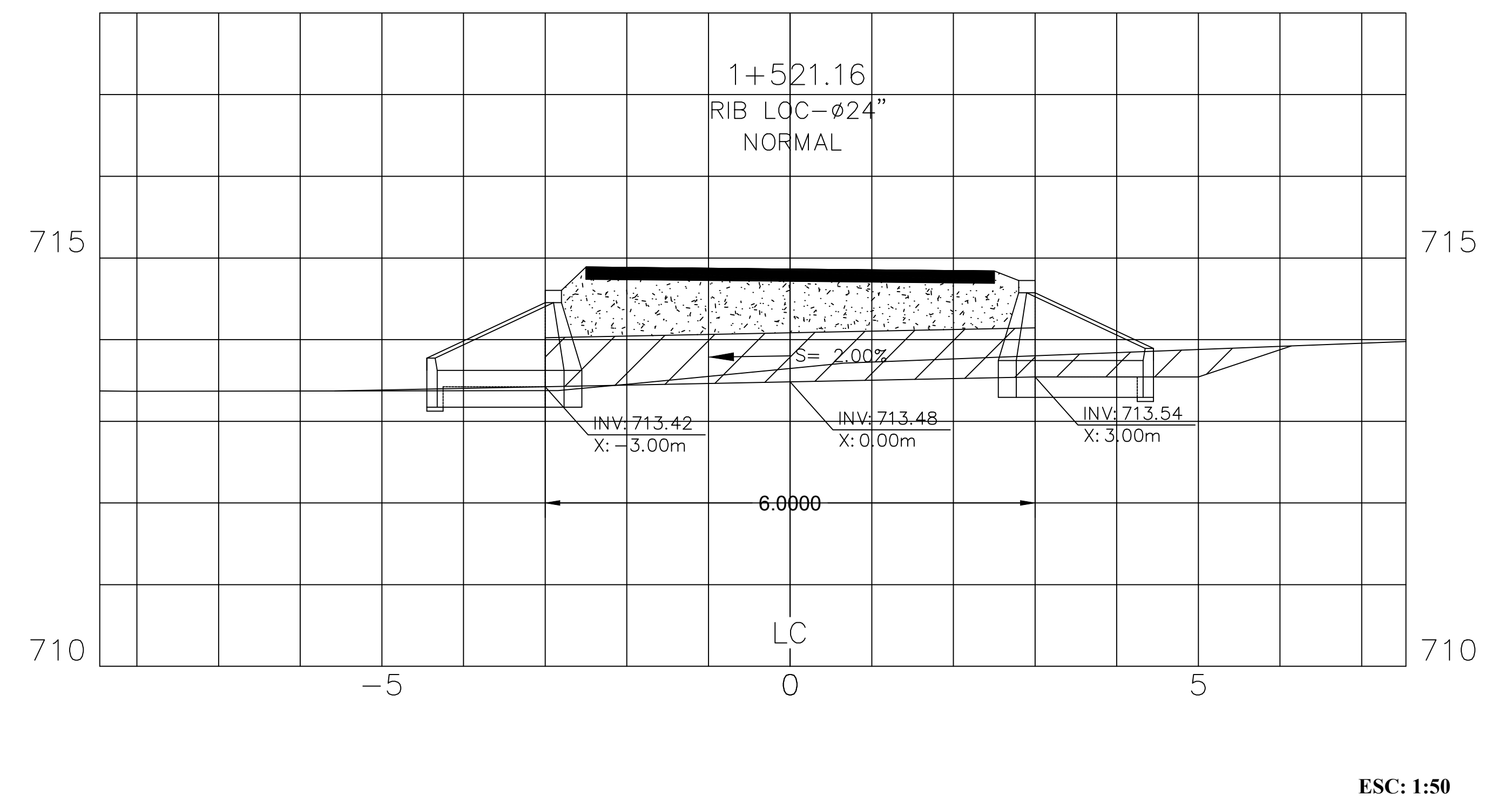
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
3	ALCANTARILLA	1+401.16	442450.35	1582478.25	RIB LOC 24"	NORMAL	715.21	715.15	715.09	6	2.00	D-I	1	1	Acondicionar entrada y salida.

No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
4	ALCANTARILLA	1+521.16	442370.22	1582566.54	RIB LOC 24"	NORMAL	713.54	713.48	713.42	6	2.00	D-I	1	1	Acondicionar entrada y salida.



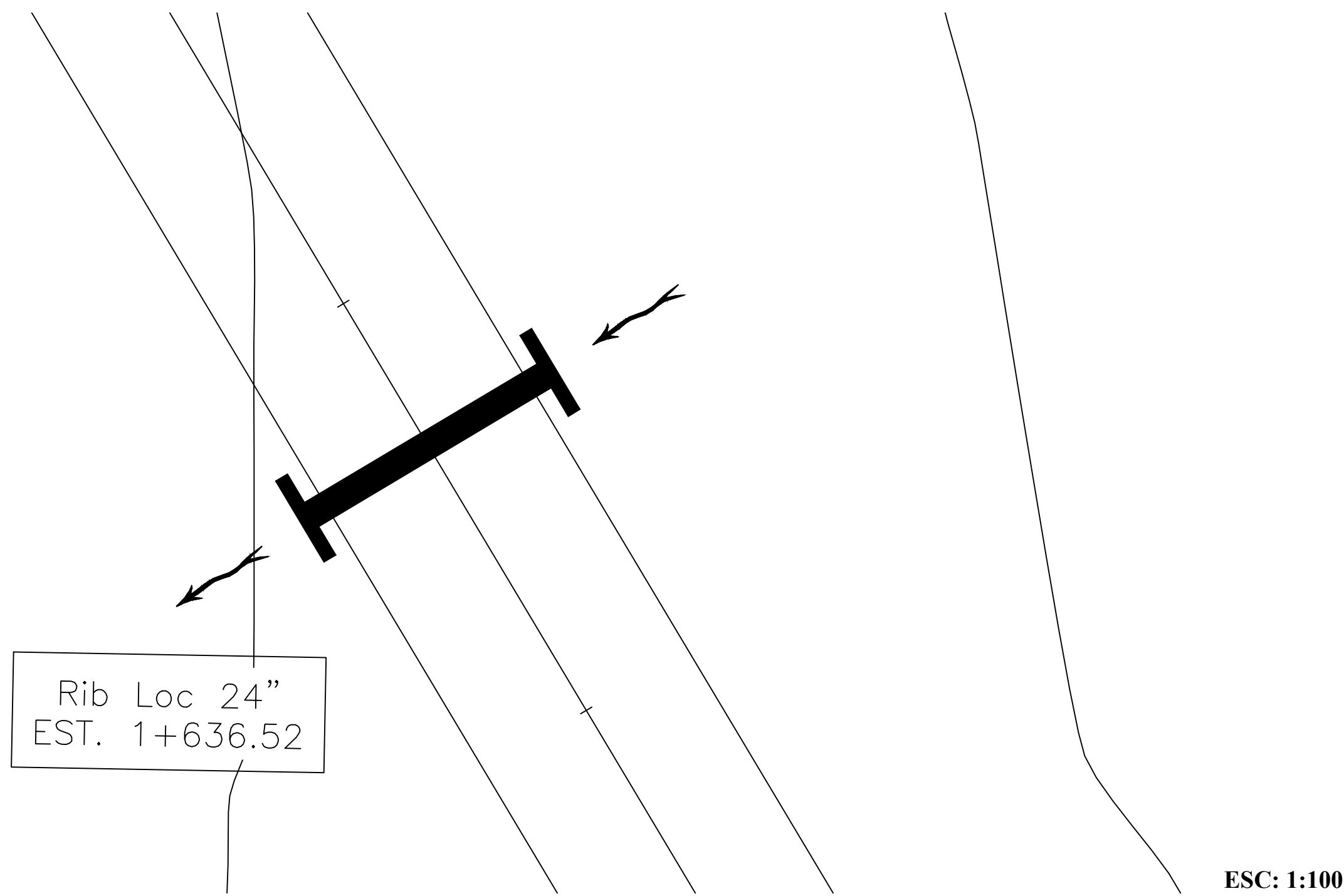
ESC: 1:50



ESC: 1:50

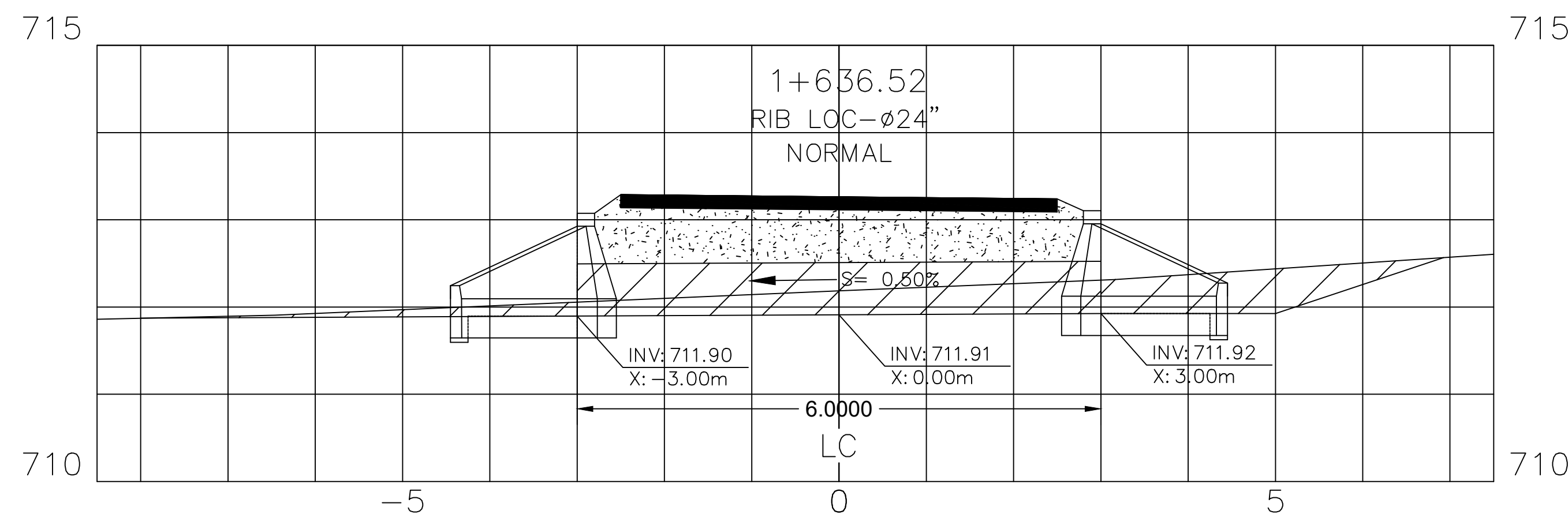
OCTUBRE 2020 DEL ACC-30 AL ACC-41.dwg



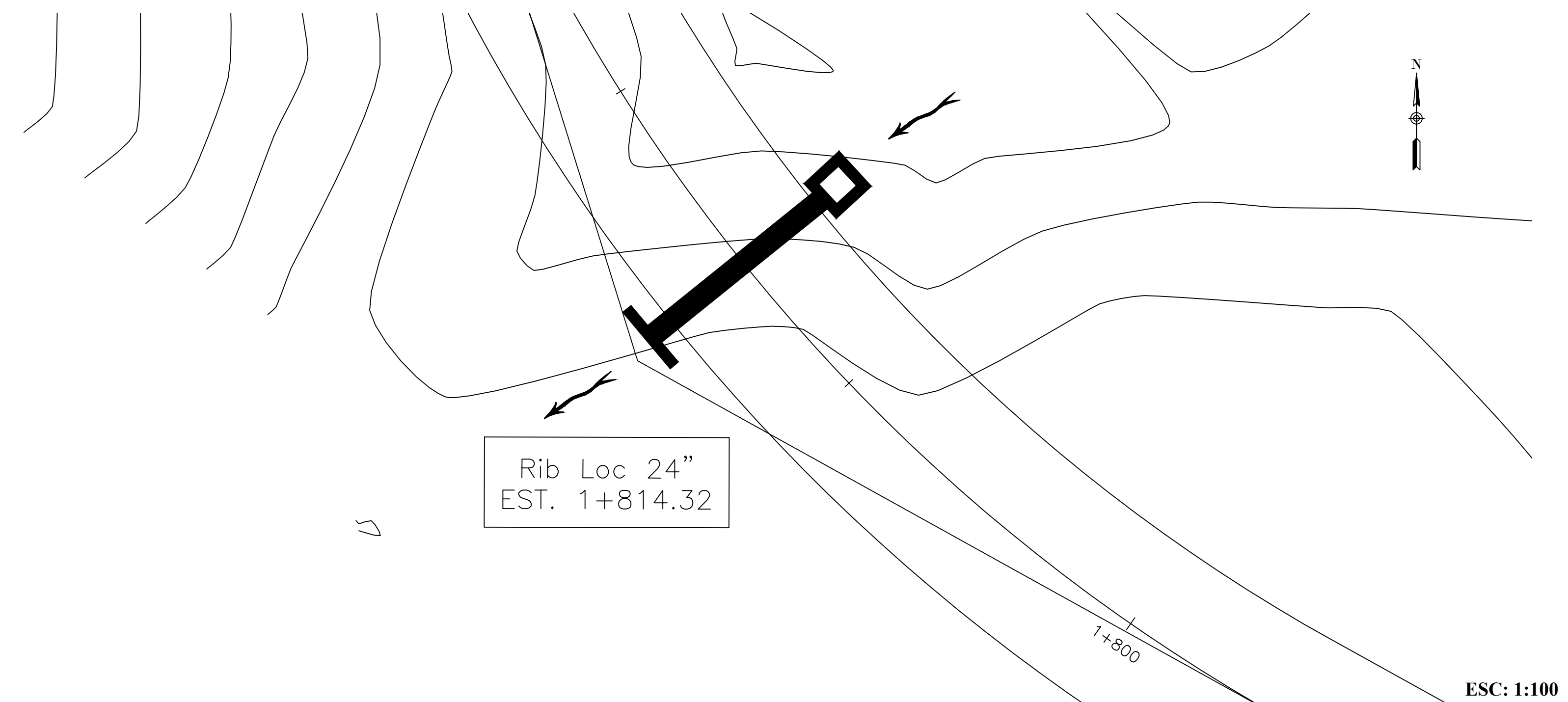


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
5	ALCANTARILLA	1+636.52	442311.10	1582665.62	RIB LOC 24"	NORMAL	711.92	711.91	711.90	6	0.50	D-I	1	1	Acondicionar entrada y salida.

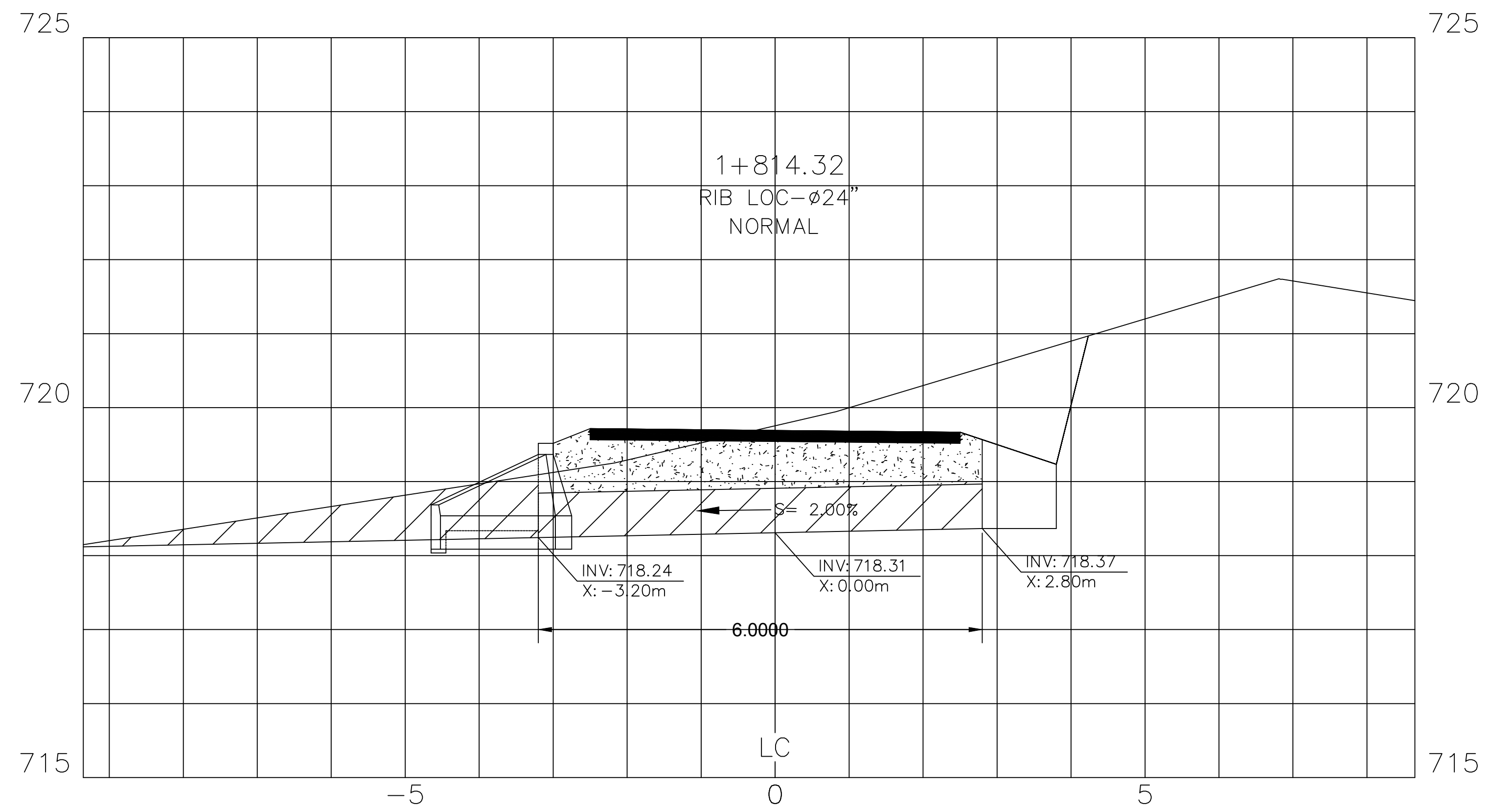


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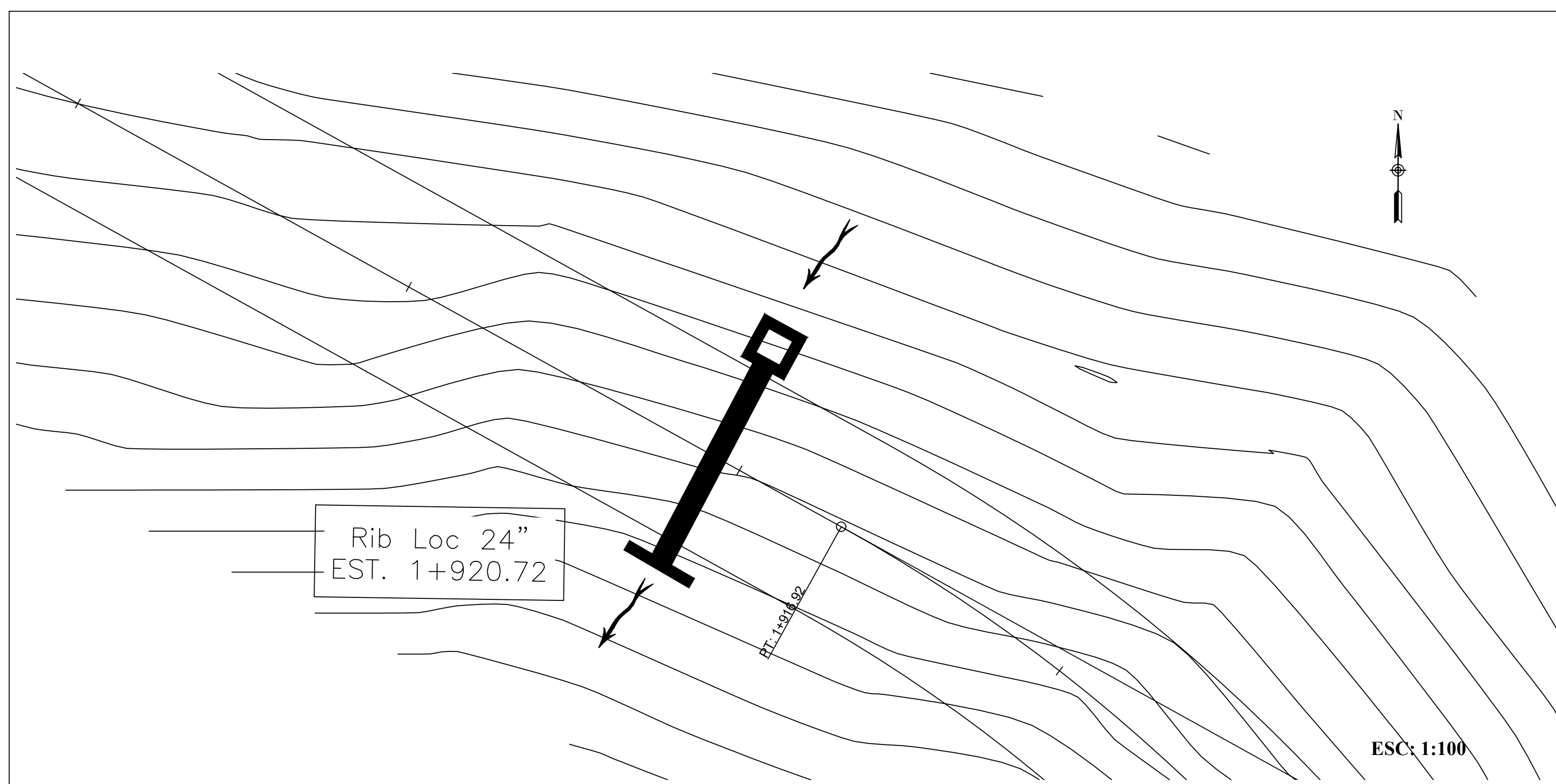


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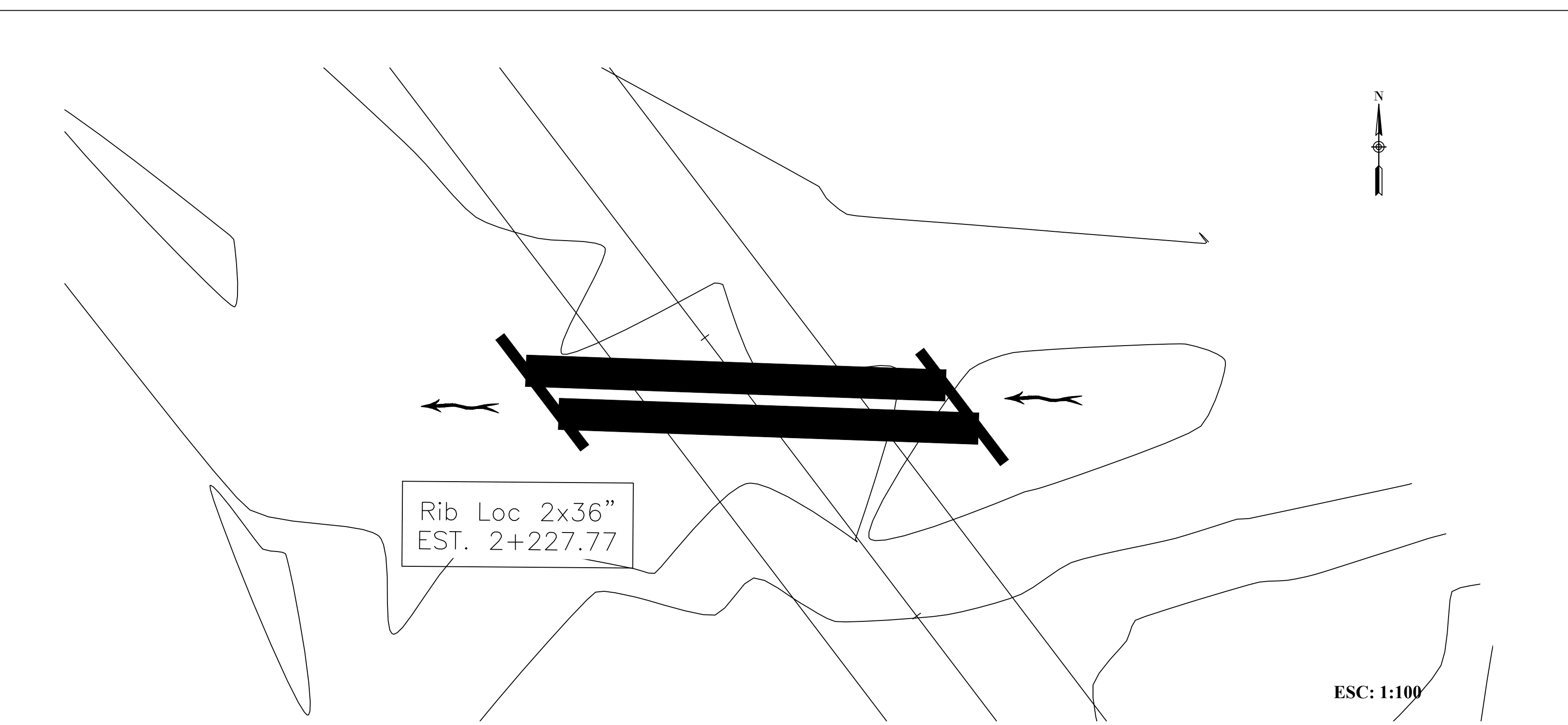
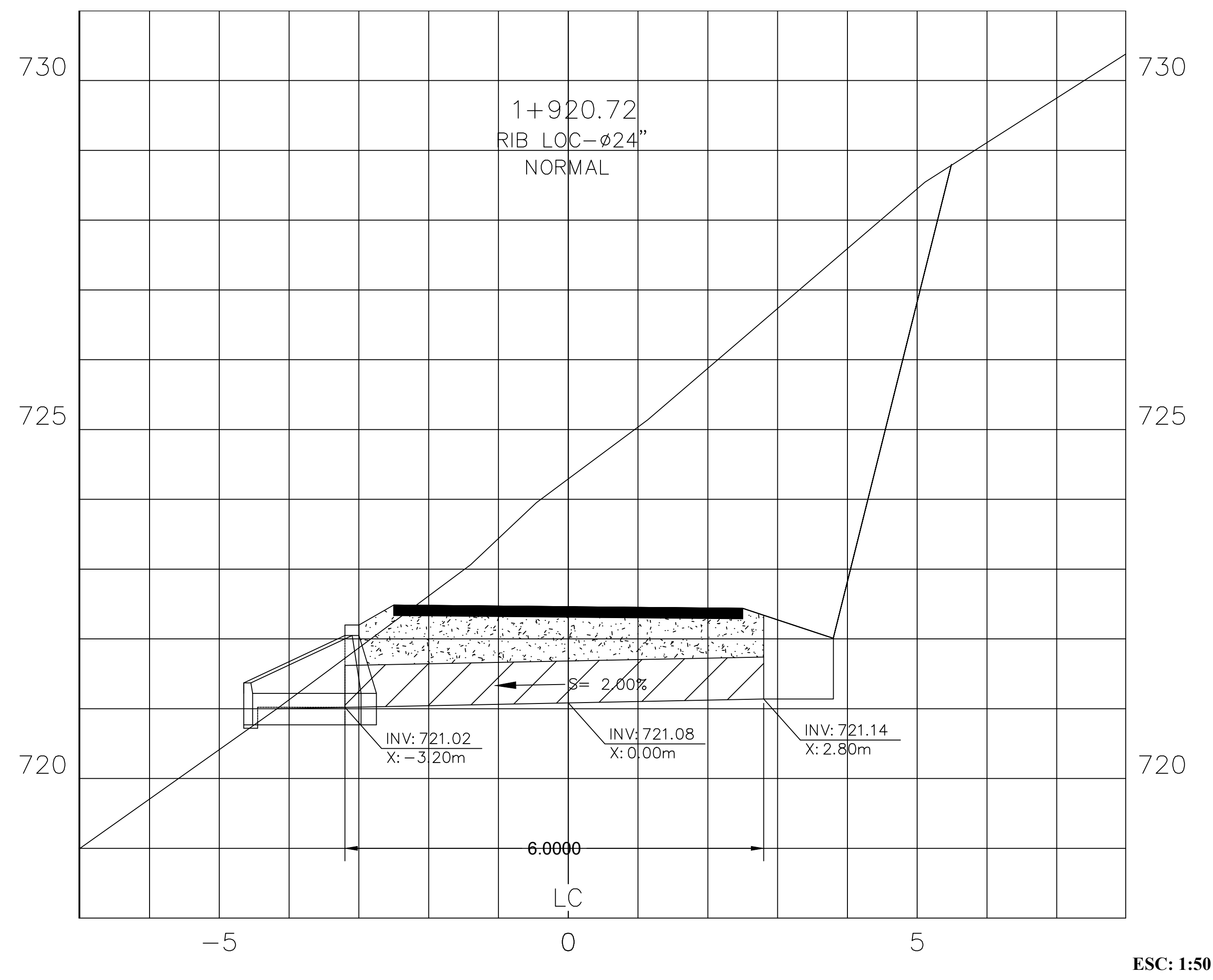
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
6	ALCANTARILLA	1+814.32	442168.57	1582766.81	RIB LOC 24"	NORMAL	718.37	718.31	718.24	6	2	D-I	1	1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.



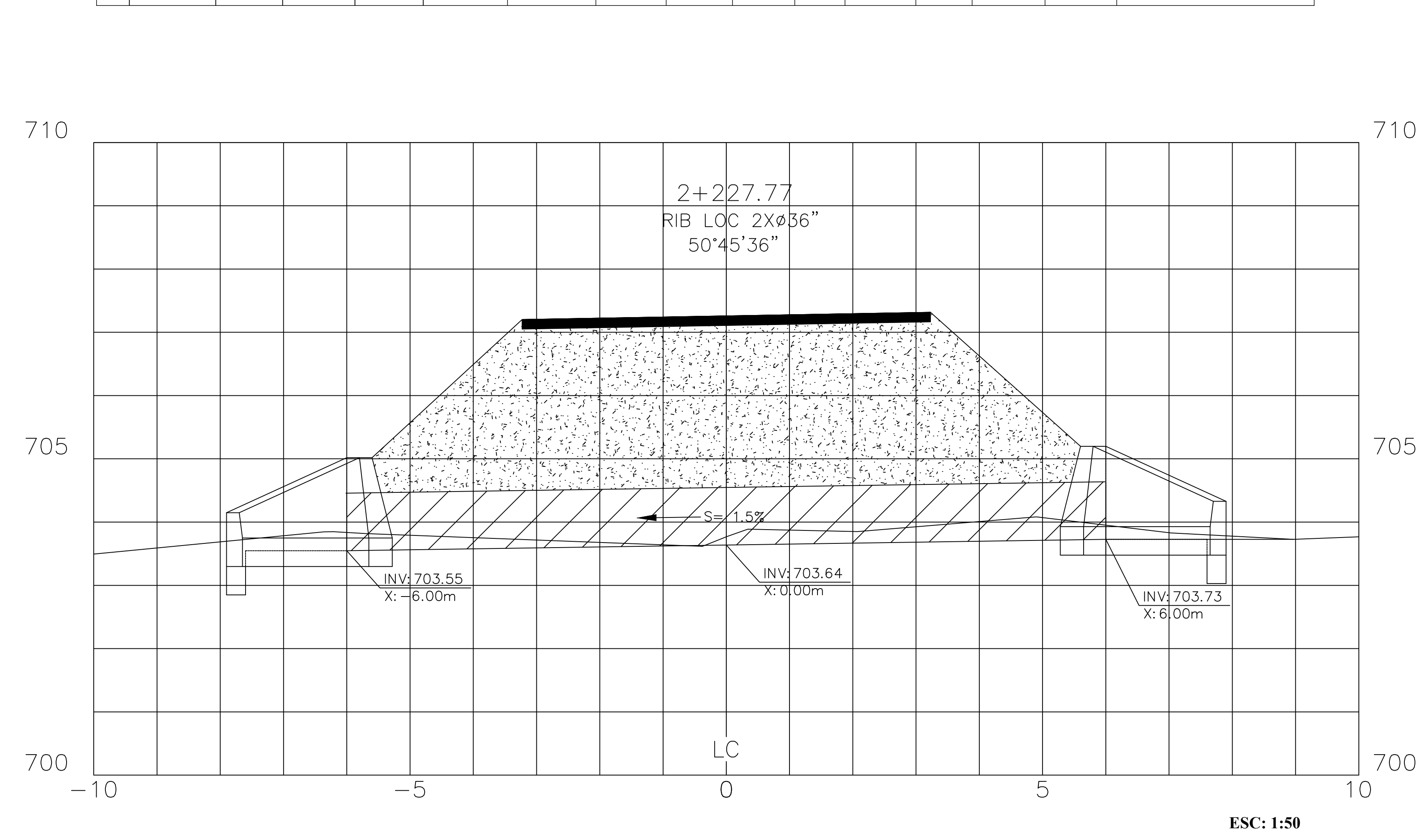
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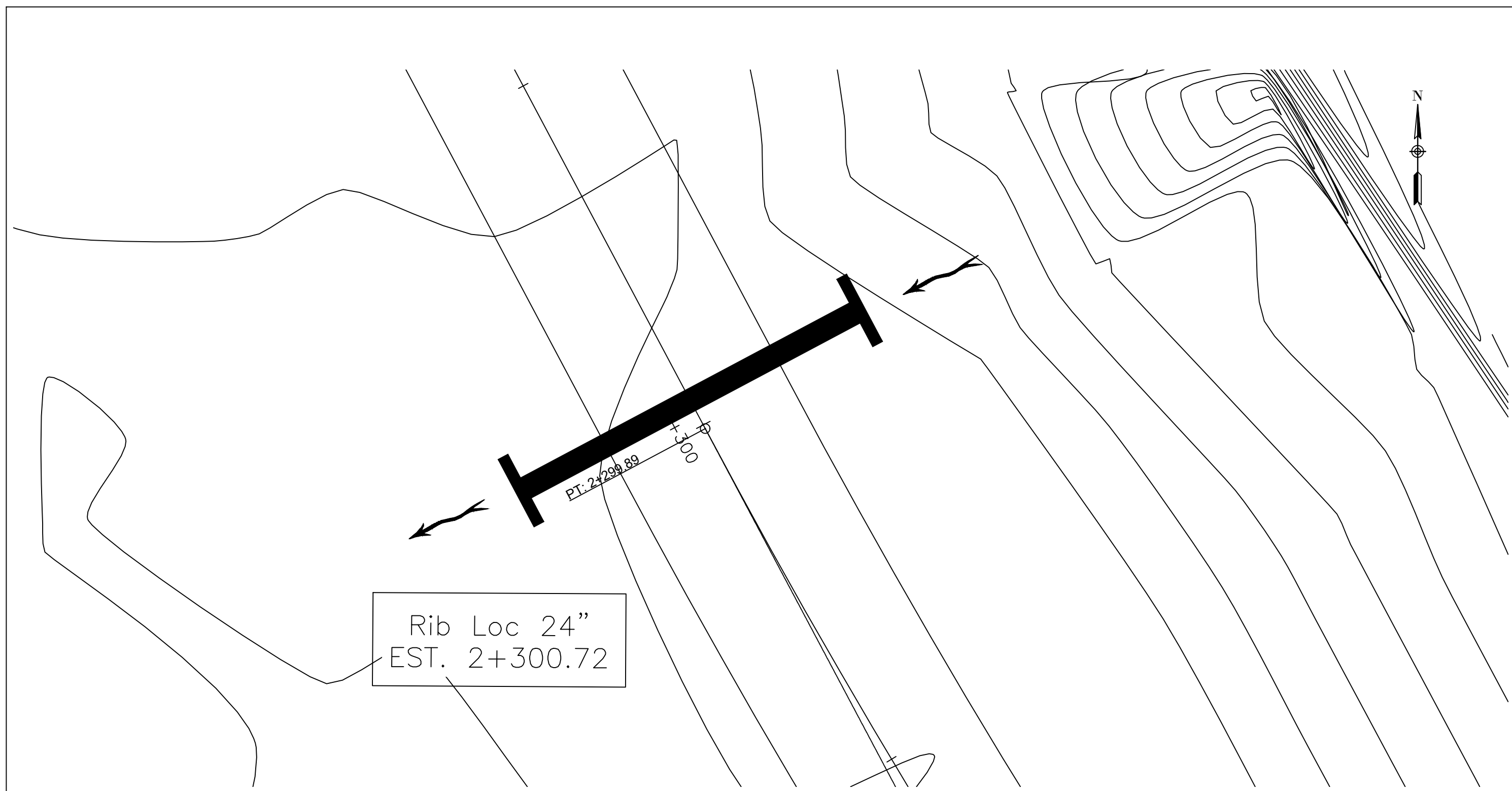
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
7	ALCANTARILLA	1+920.72	442120.63	1582858.37	RIB LOC 24"	NORMAL	721.14	721.08	721.02	6	2	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.



No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
8	ALCANTARILLA	2+227.77	441868.28	1583017.03	2XTCR 36"	50°45'36"	703.73	703.64	703.55	12	1.50	D-I	1	1	Acondicionar entrada y salida.

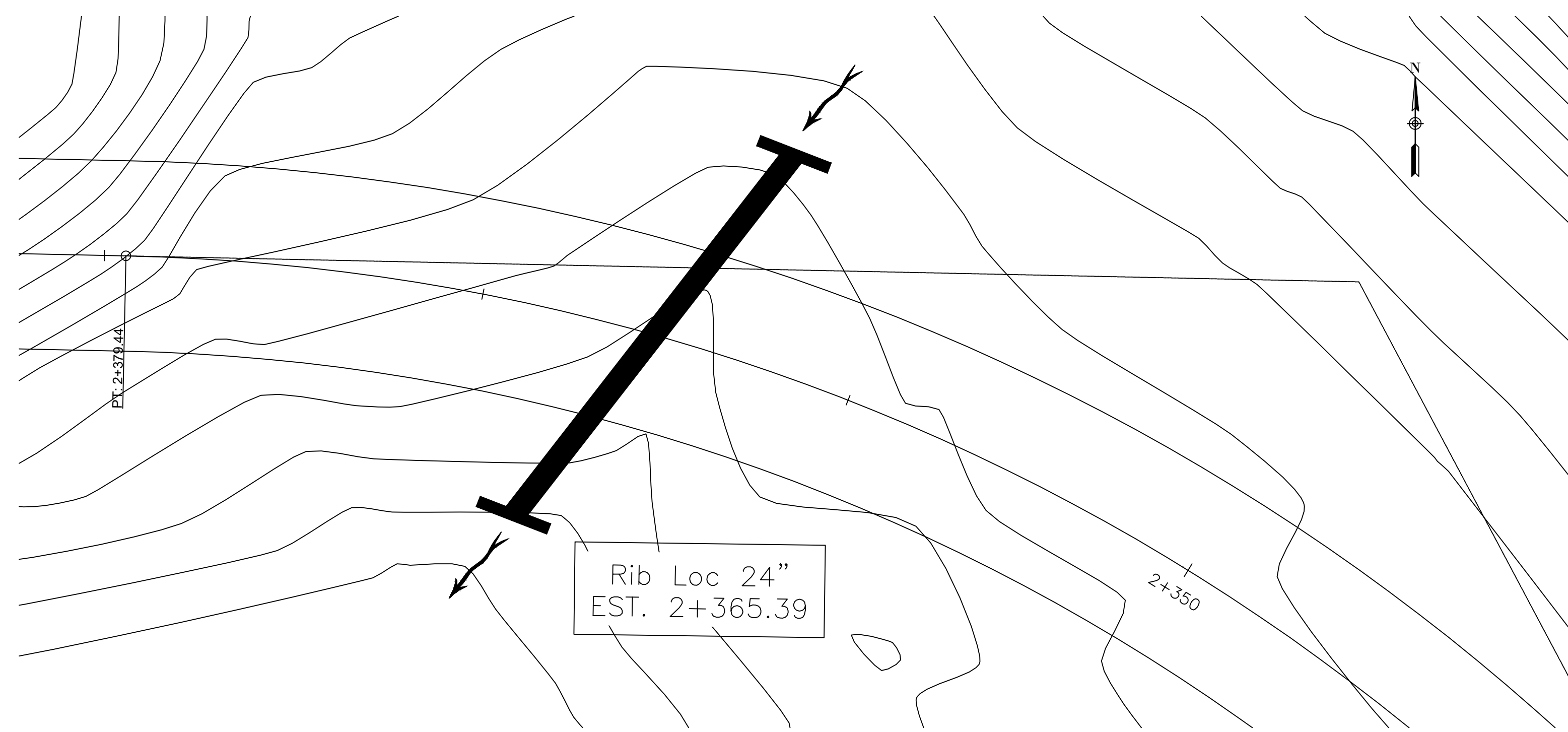


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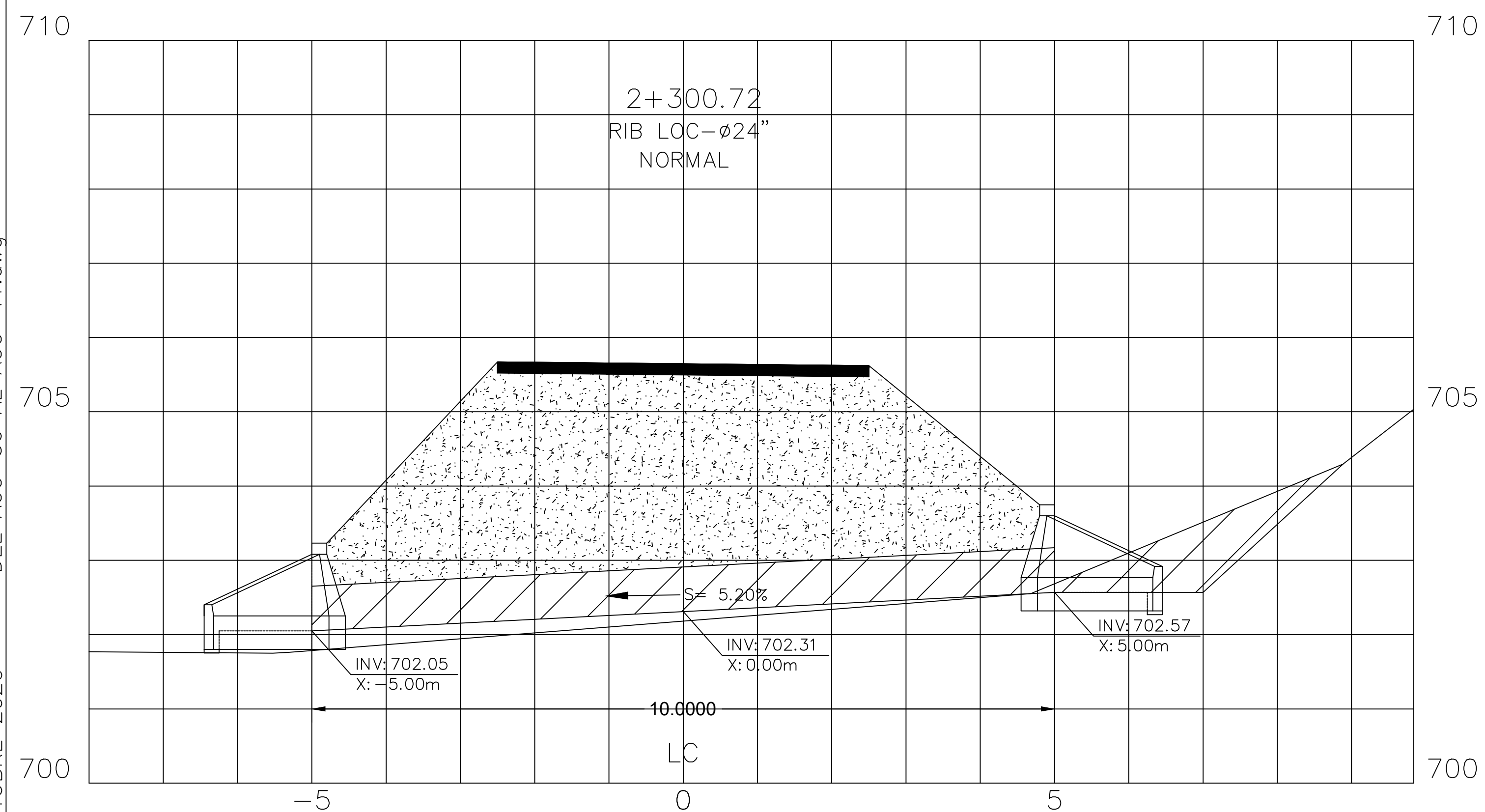
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
9	ALCANTARILLA	2+300.72	441826.40	1583076.64	RIB LOC 24"	NORMAL	702.57	702.31	702.05	10	5.20	D-I	1	1	Acondicionar entrada y salida.

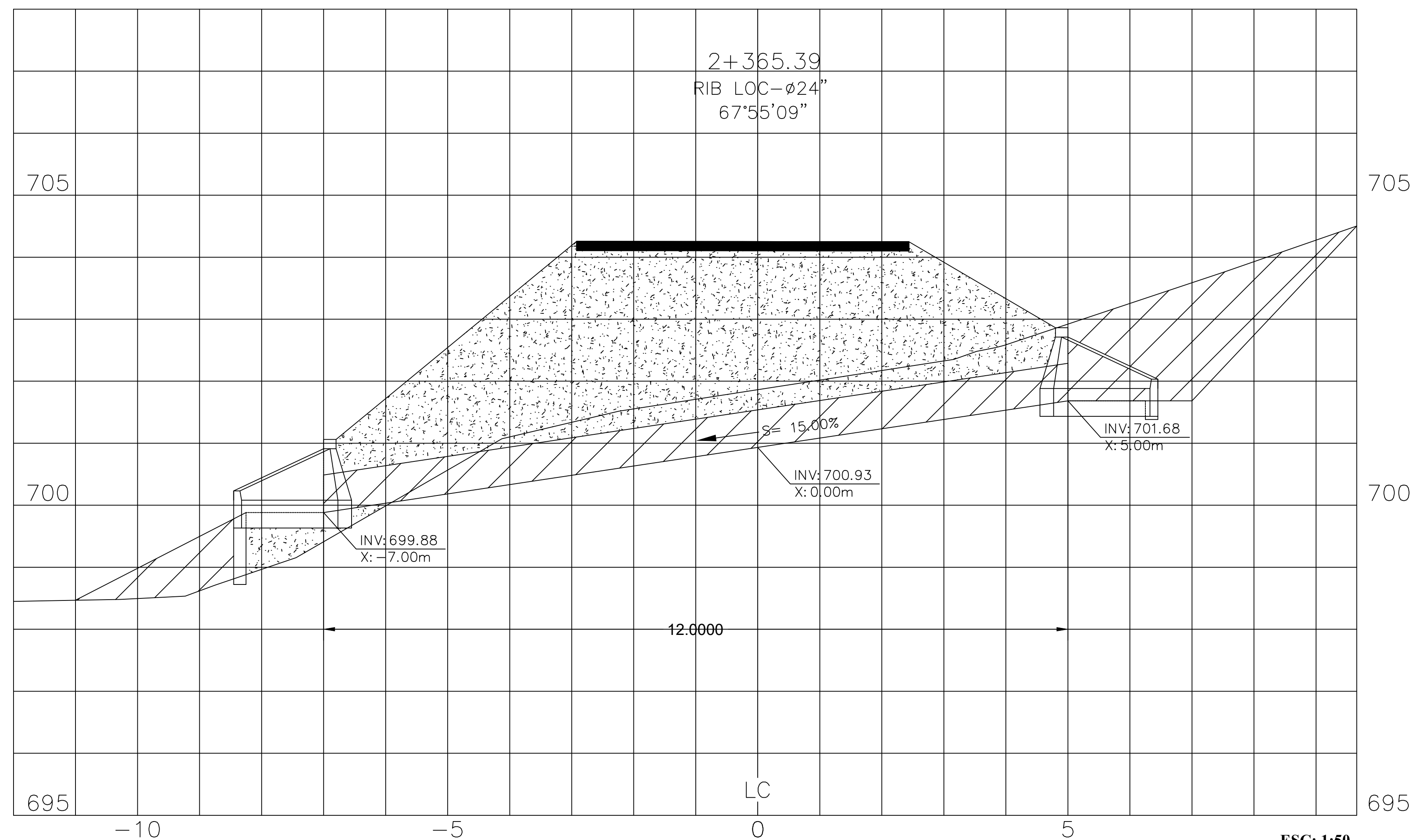


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
10	ALCANTARILLA	2+365.39	441783.23	1583121.63	RIB LOC 24"	67°55'09"	701.68	700.93	699.88	12	15.00	D-I	1	1	Acondicionar entrada y salida.

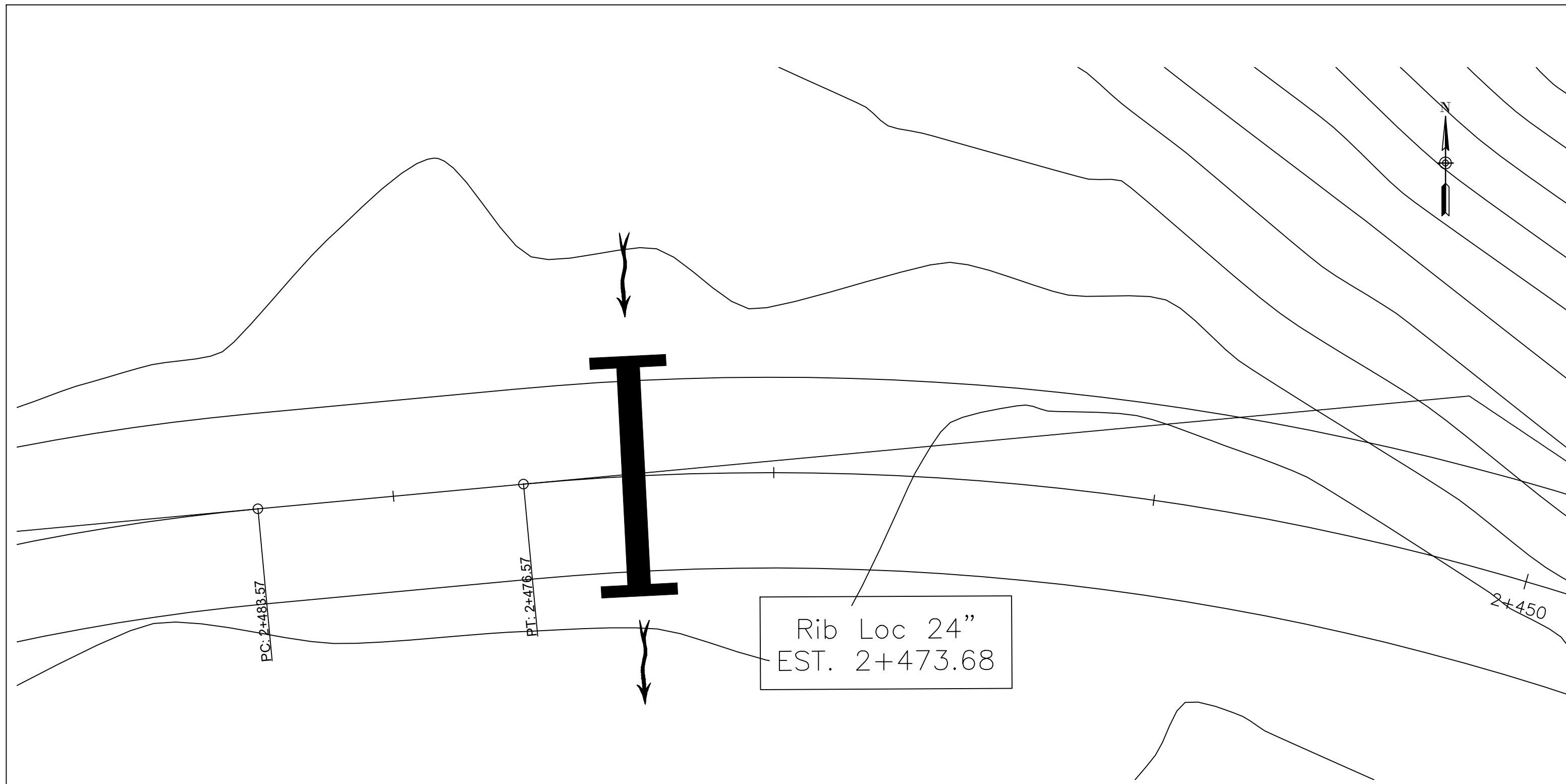


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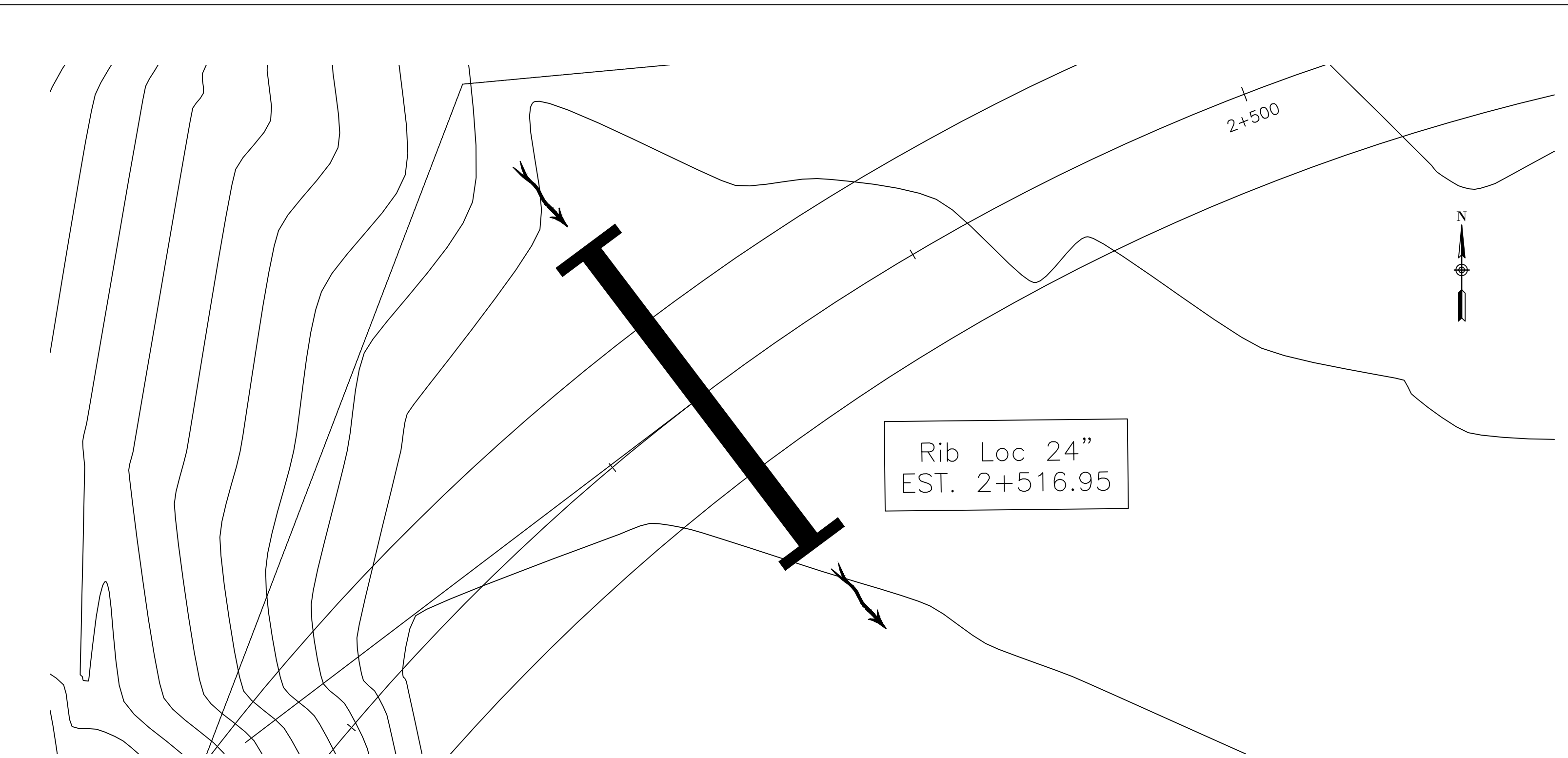
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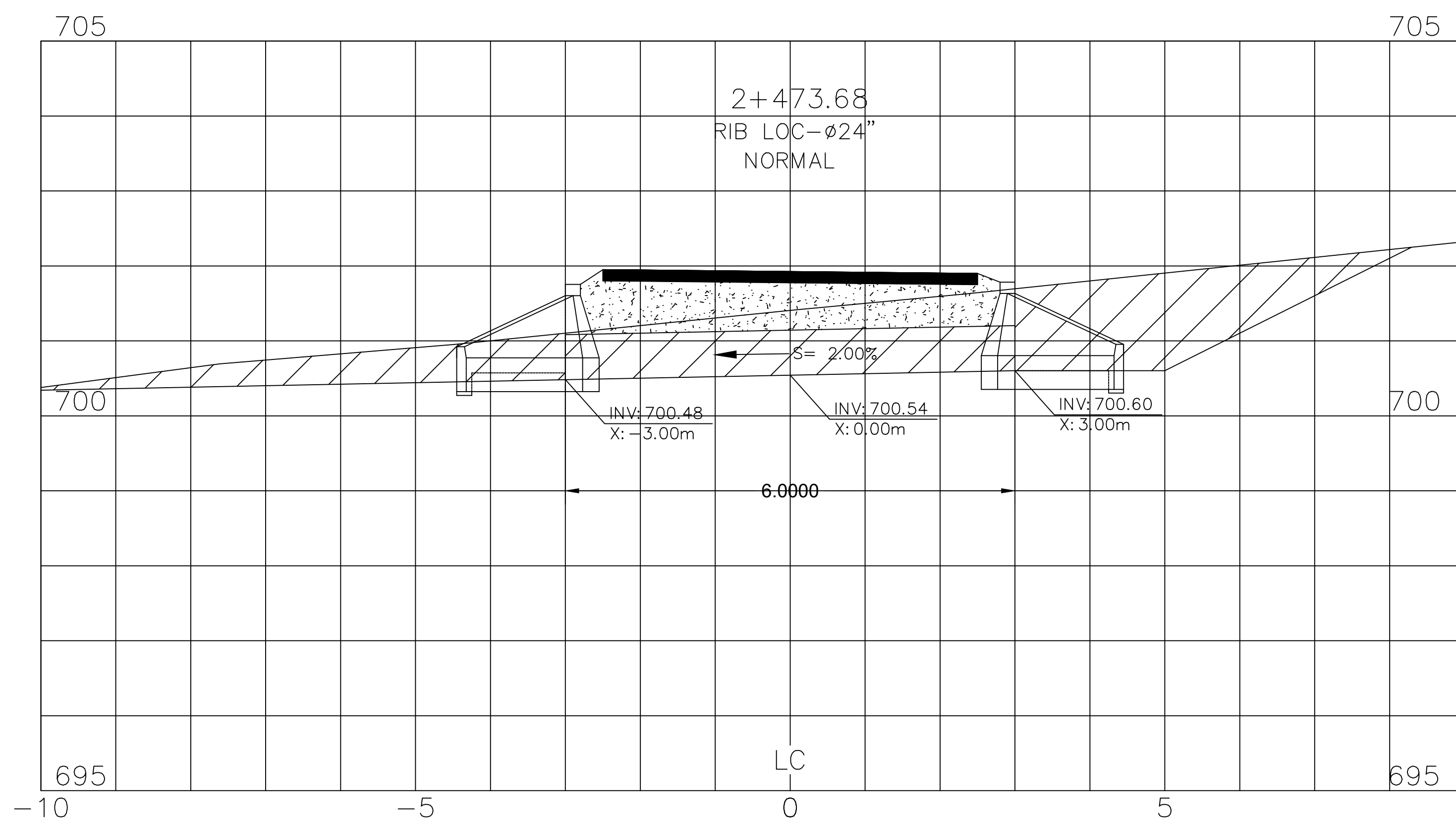
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
11	ALCANTARILLA	2+473.68	441680.18	1583149.01	RIB LOC 24"	NORMAL	700.60	700.54	700.48	6	2.00	D-I	1	1	Acondicionar entrada y salida.

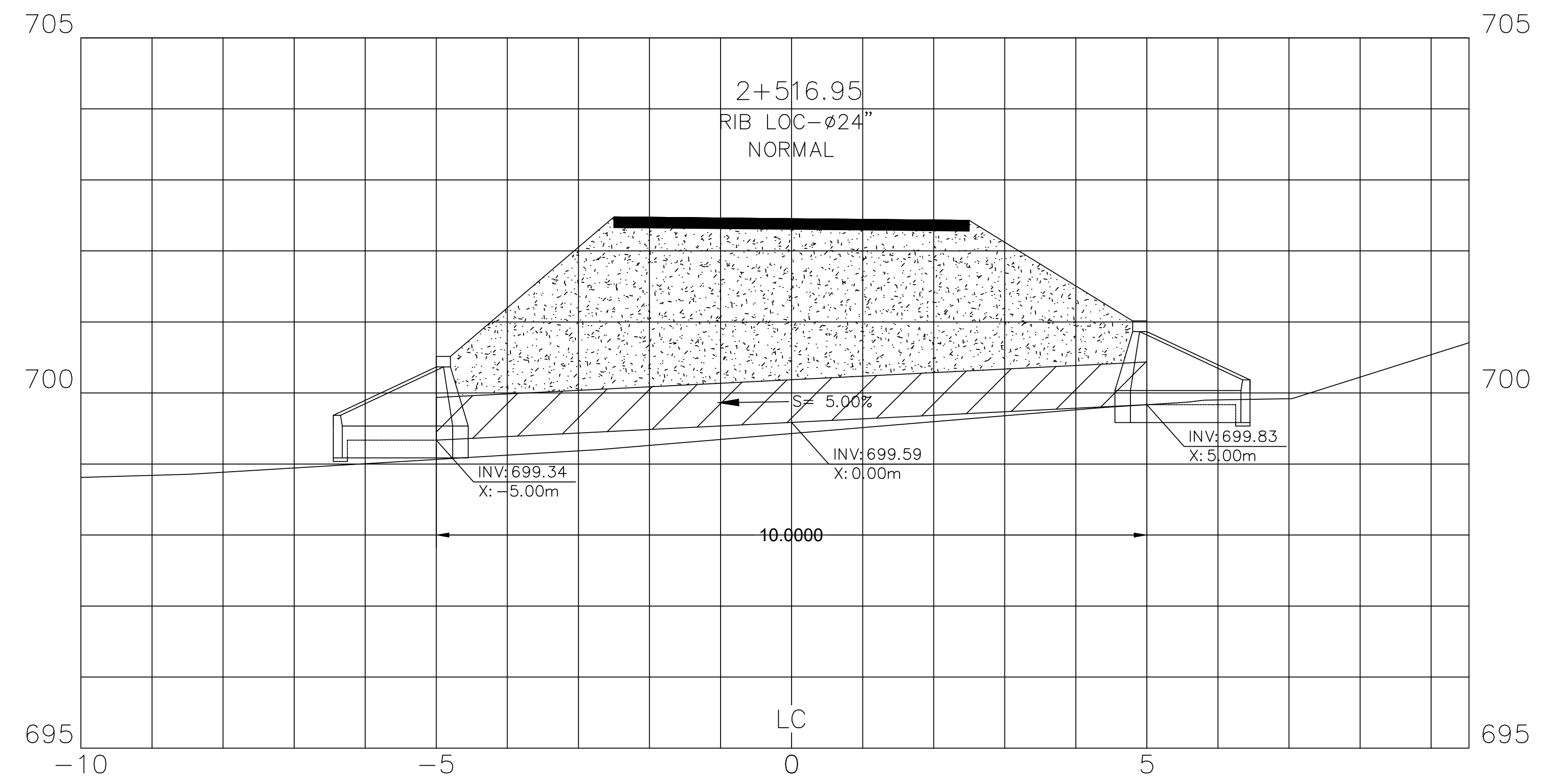


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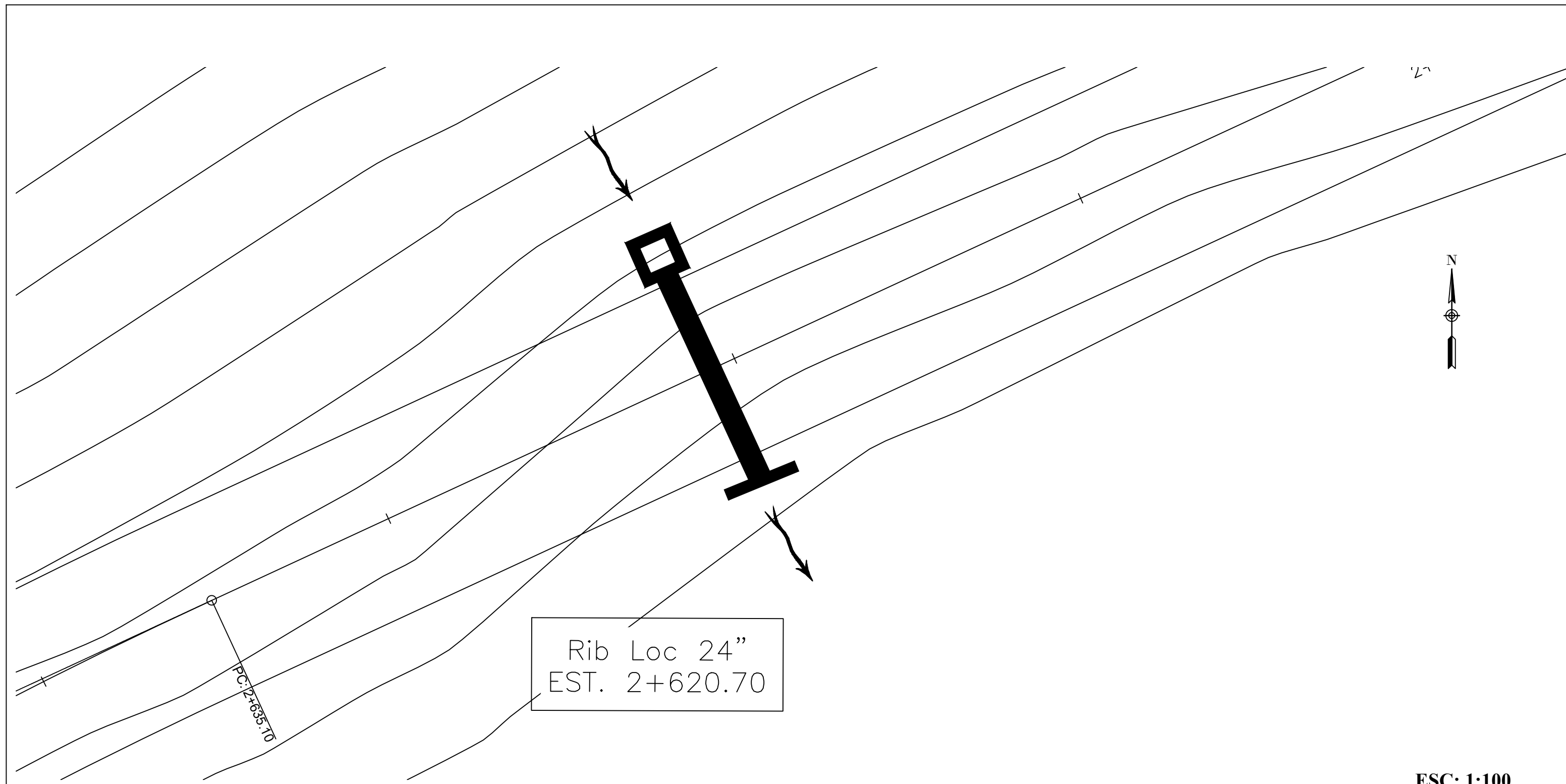
No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
12	ALCANTARILLA	2+516.95	441639.62	1583136.20	RIB LOC 24"	NORMAL	699.83	699.59	699.34	10	5	D-I	1	1	Acondicionar entrada y salida.



ESC: 1:50

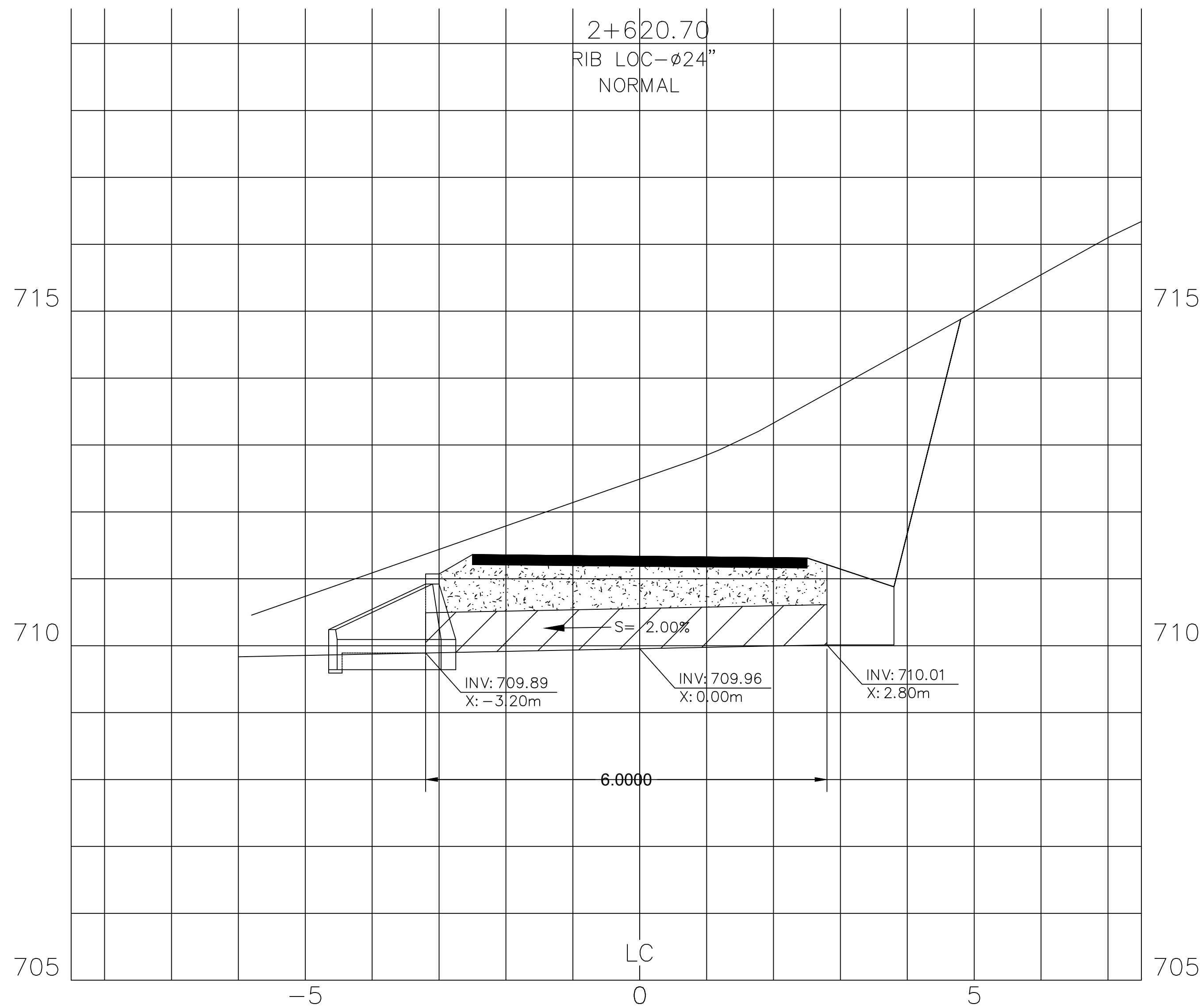


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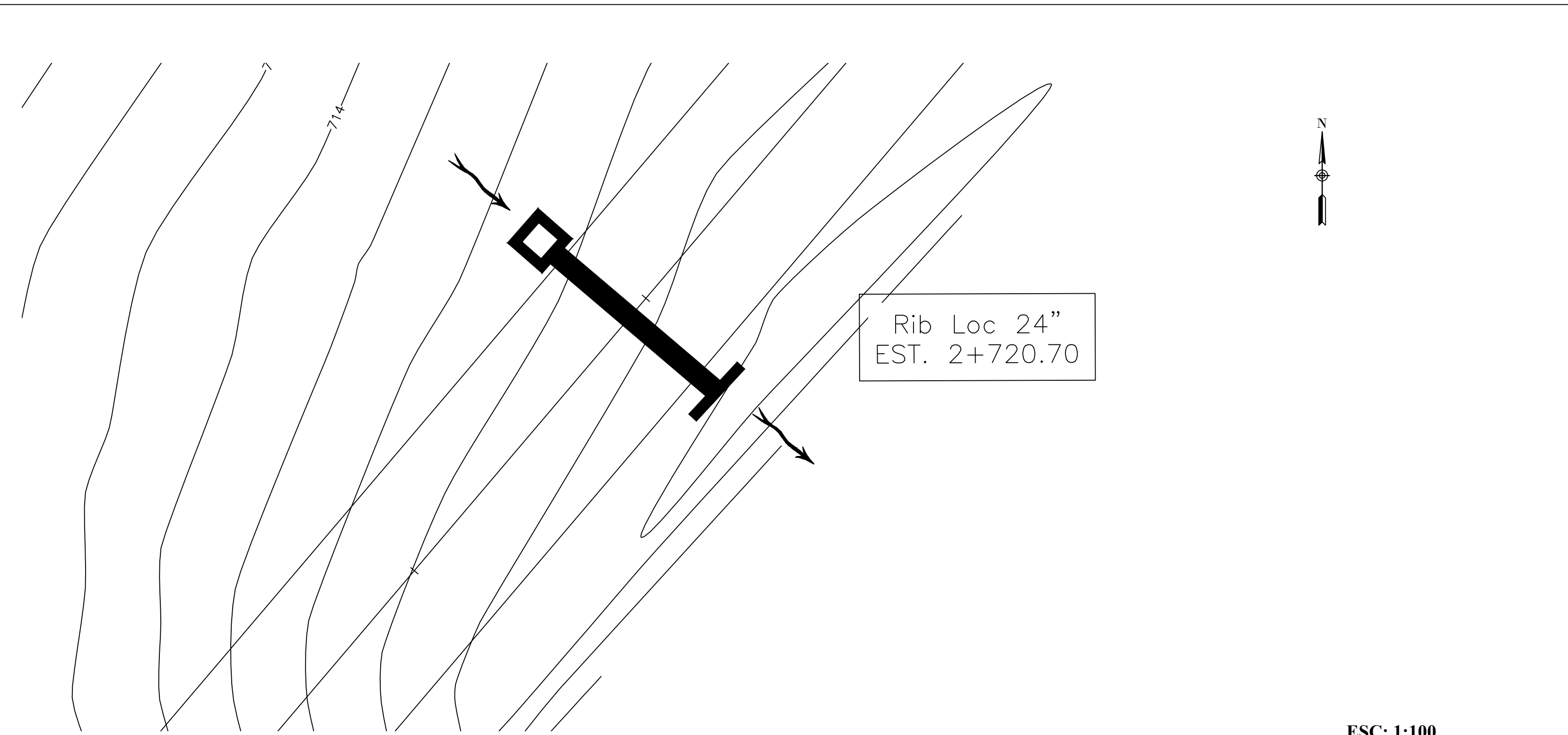


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
13	ALCANTARILLA	2+620.70	441564.11	1583070.45	RIB LOC 24"	NORMAL	710.01	709.96	709.89	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

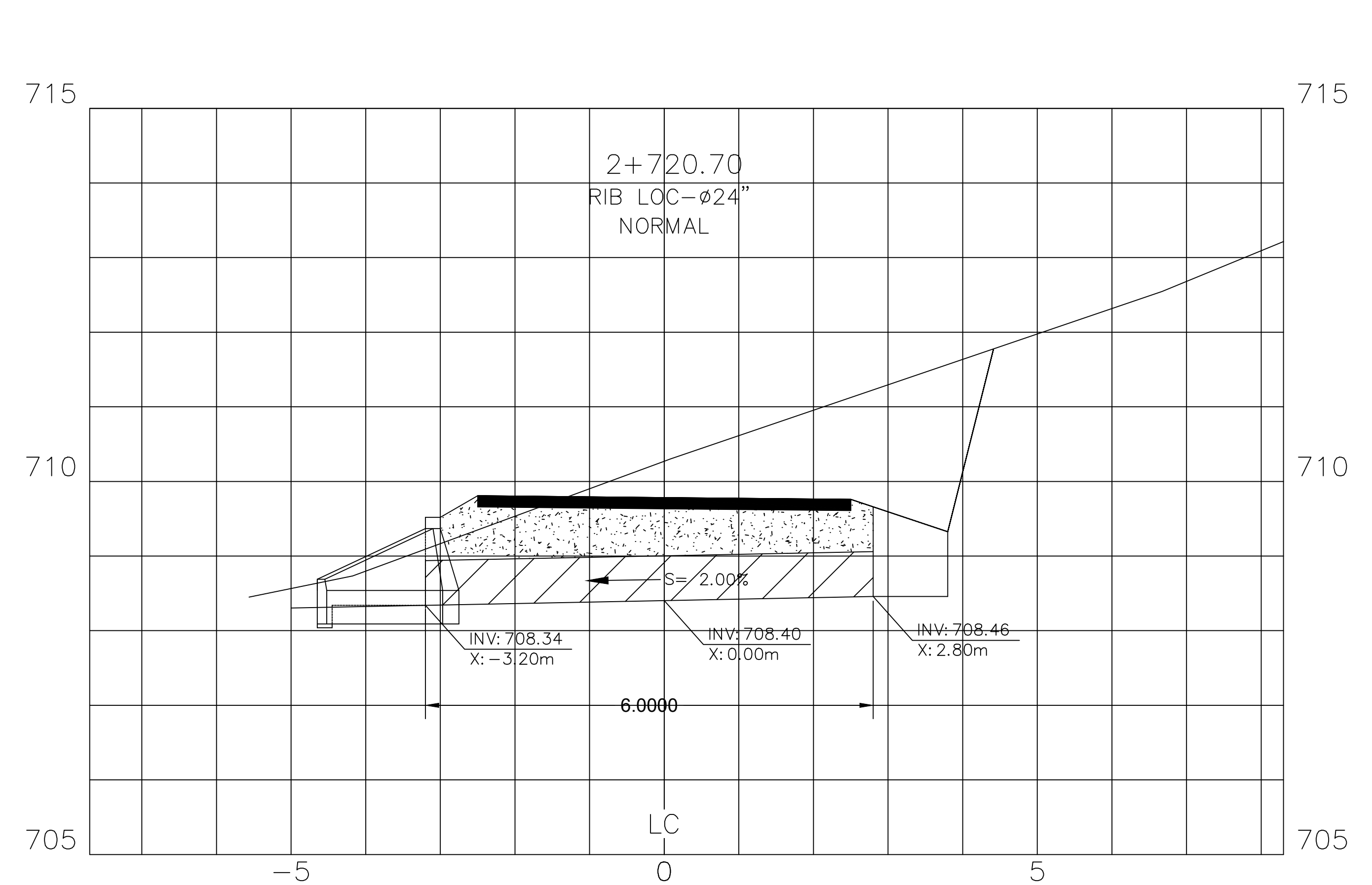


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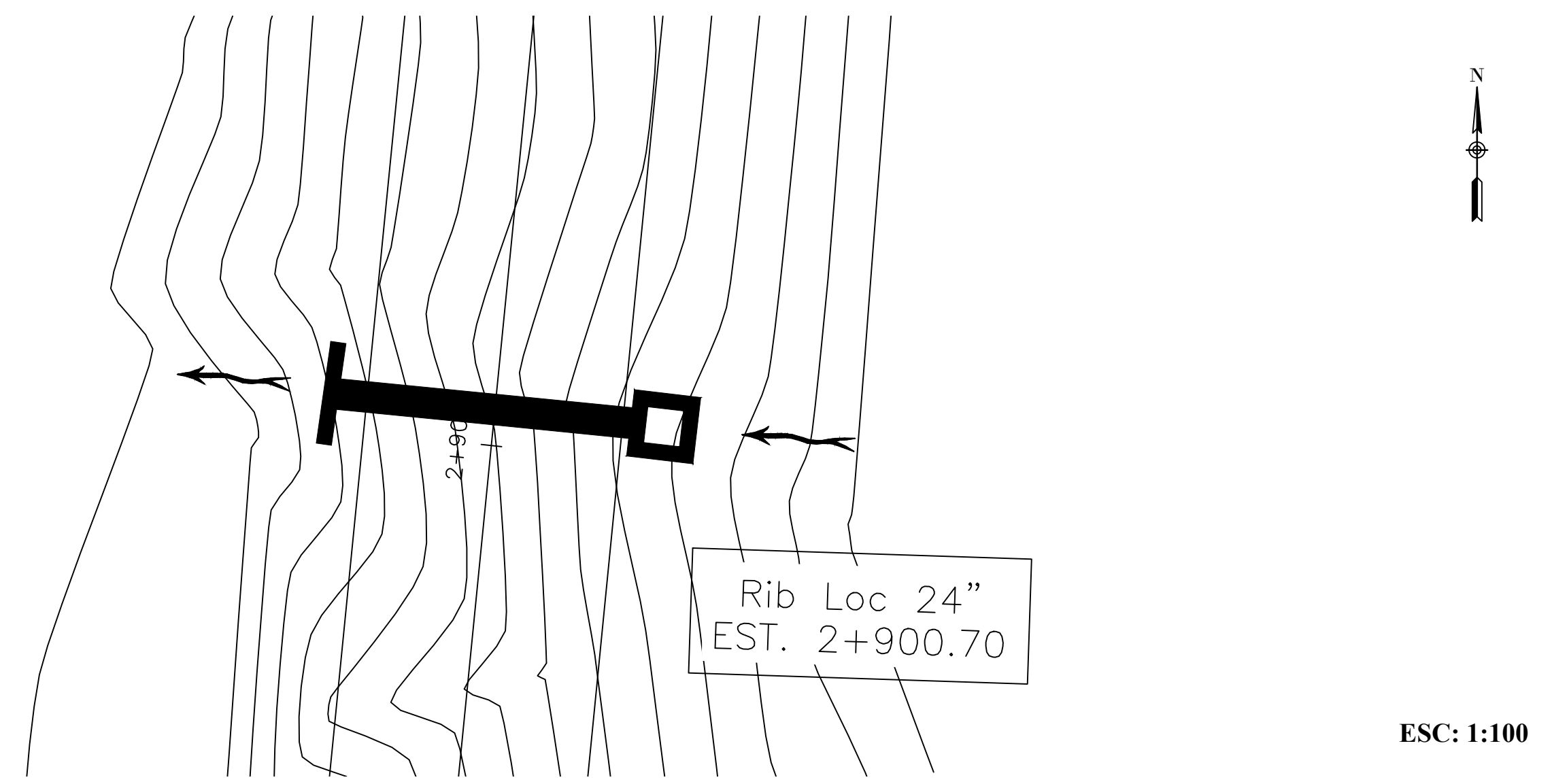


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
14	ALCANTARILLA	2+720.70	441486.36	1583009.68	RIB LOC 24"	NORMAL	708.46	708.40	708.34	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

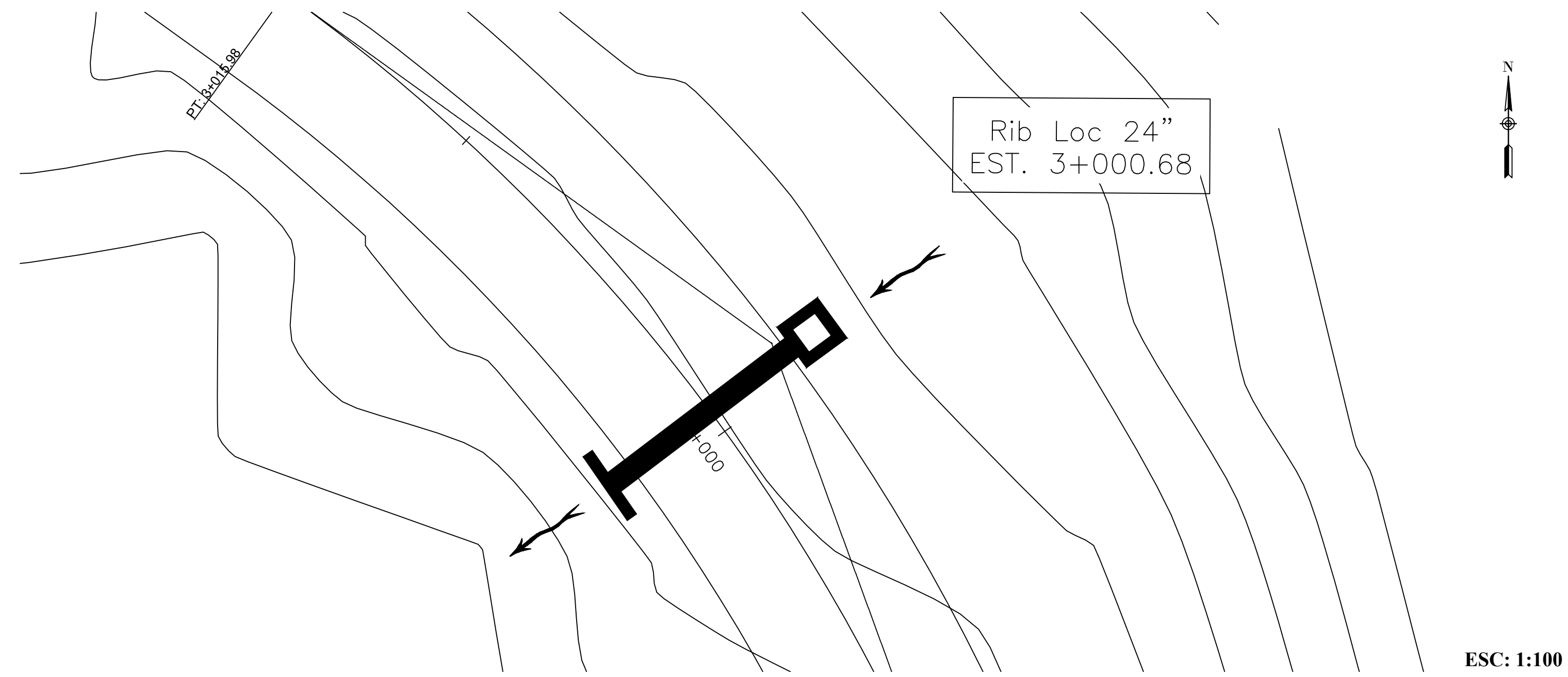


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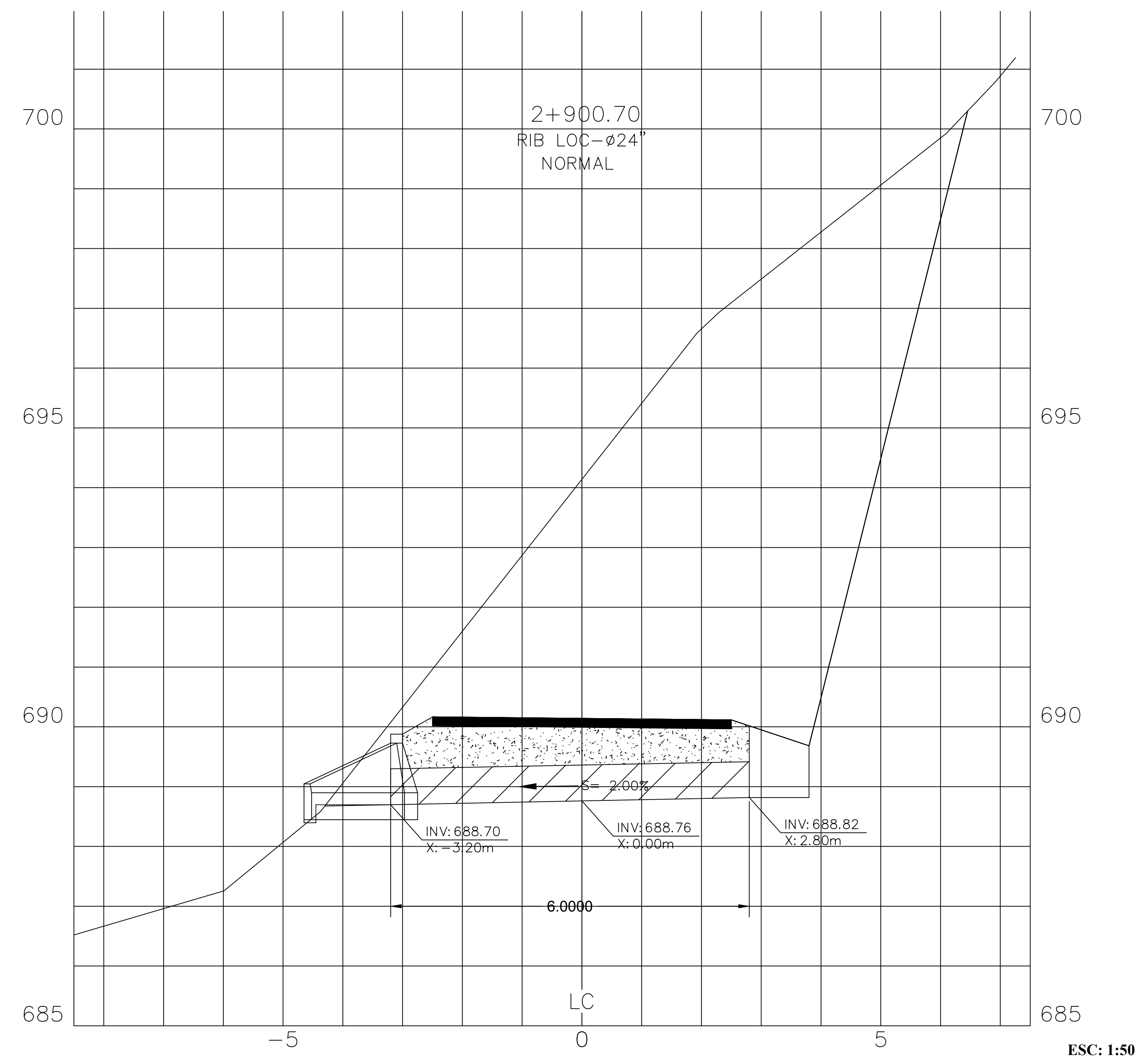
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
15	ALCANTARILLA	2+900.70	441405.63	1583079.64	RIB LOC 24"	NORMAL	688.82	688.76	688.70	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

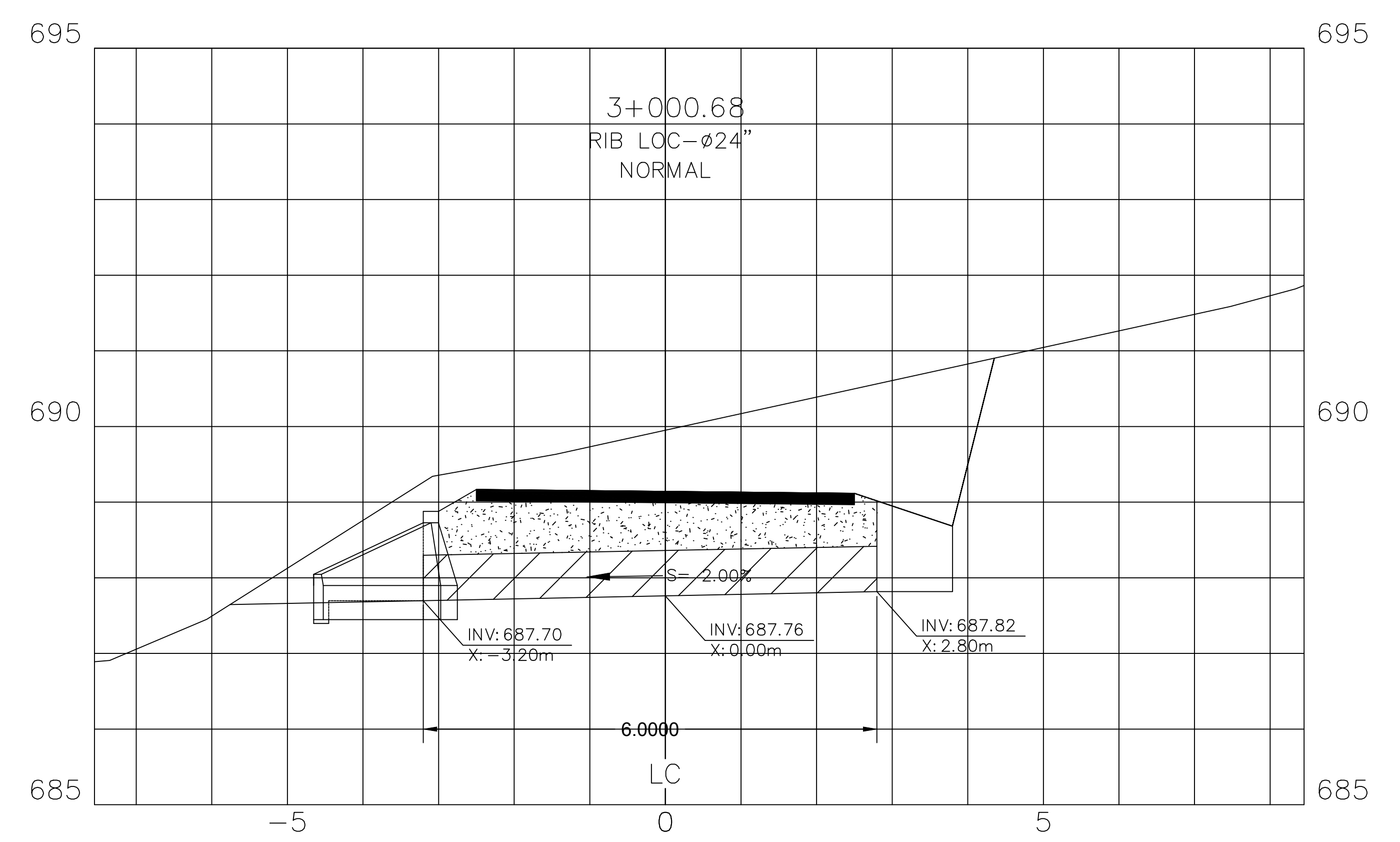


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
16	ALCANTARILLA	3+000.68	441383.16	1583174.91	RIB LOC 24"	NORMAL	687.82	687.76	687.70	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

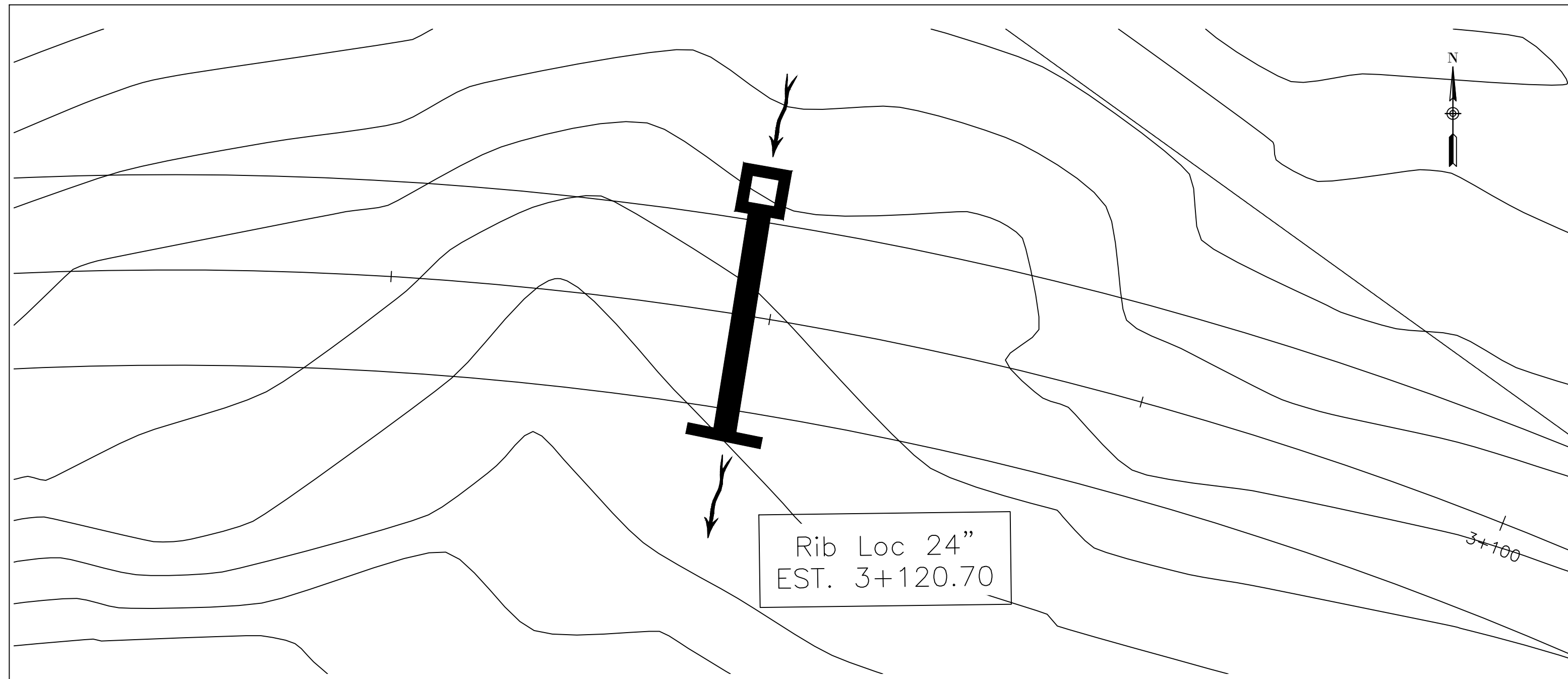


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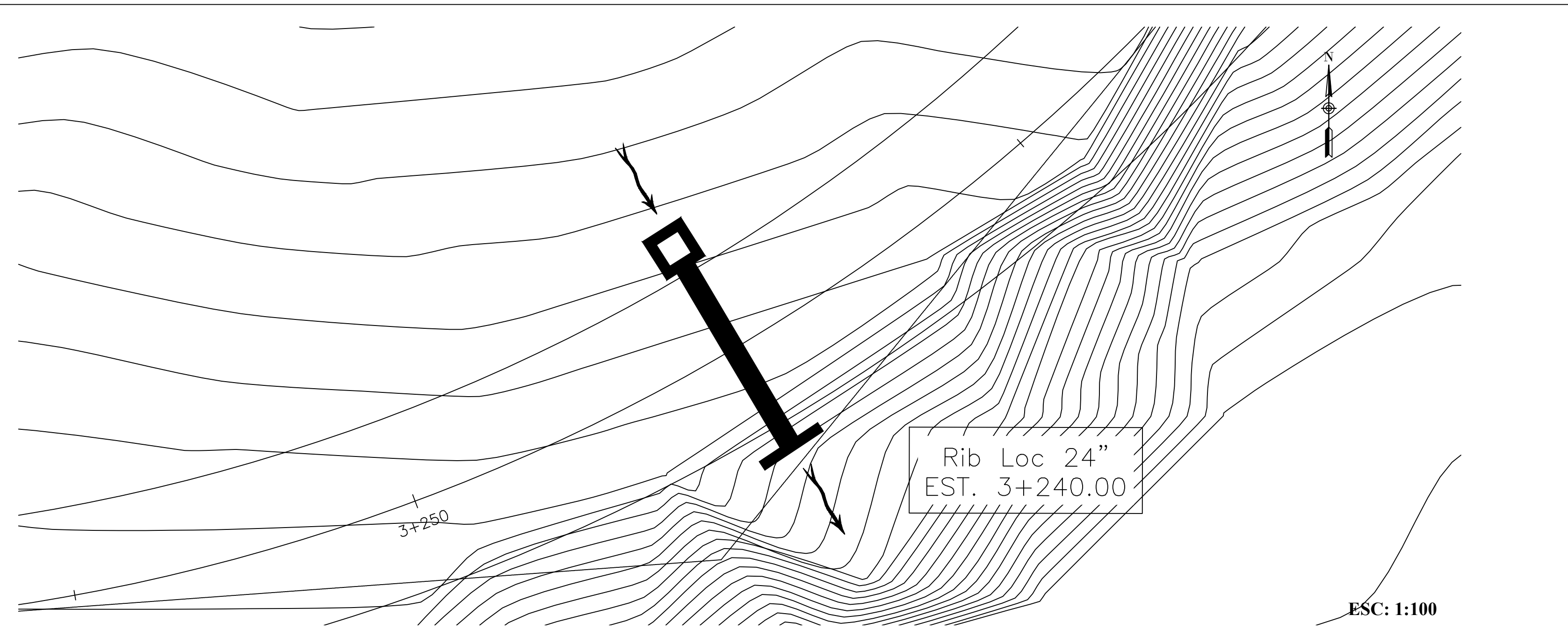


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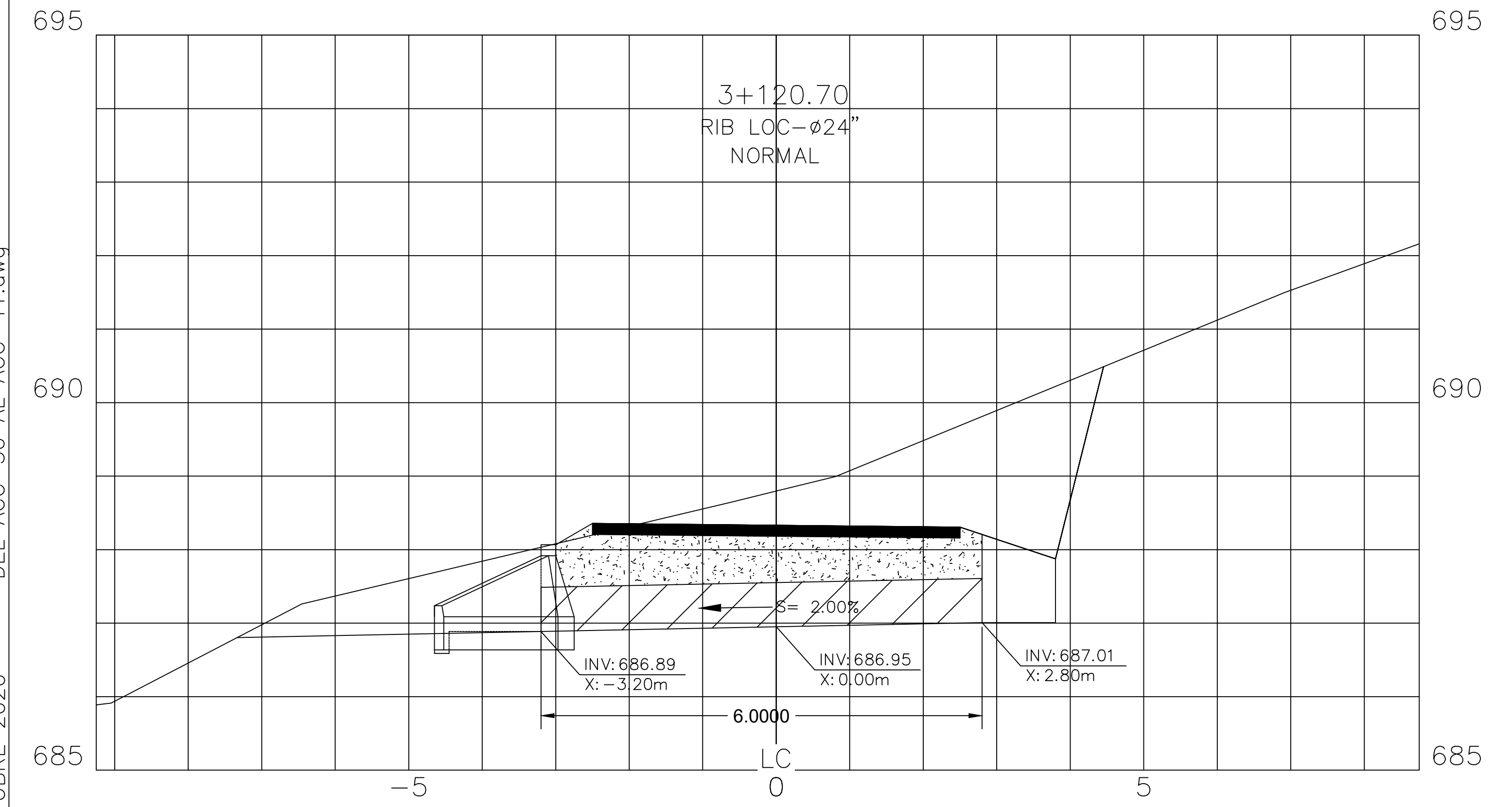
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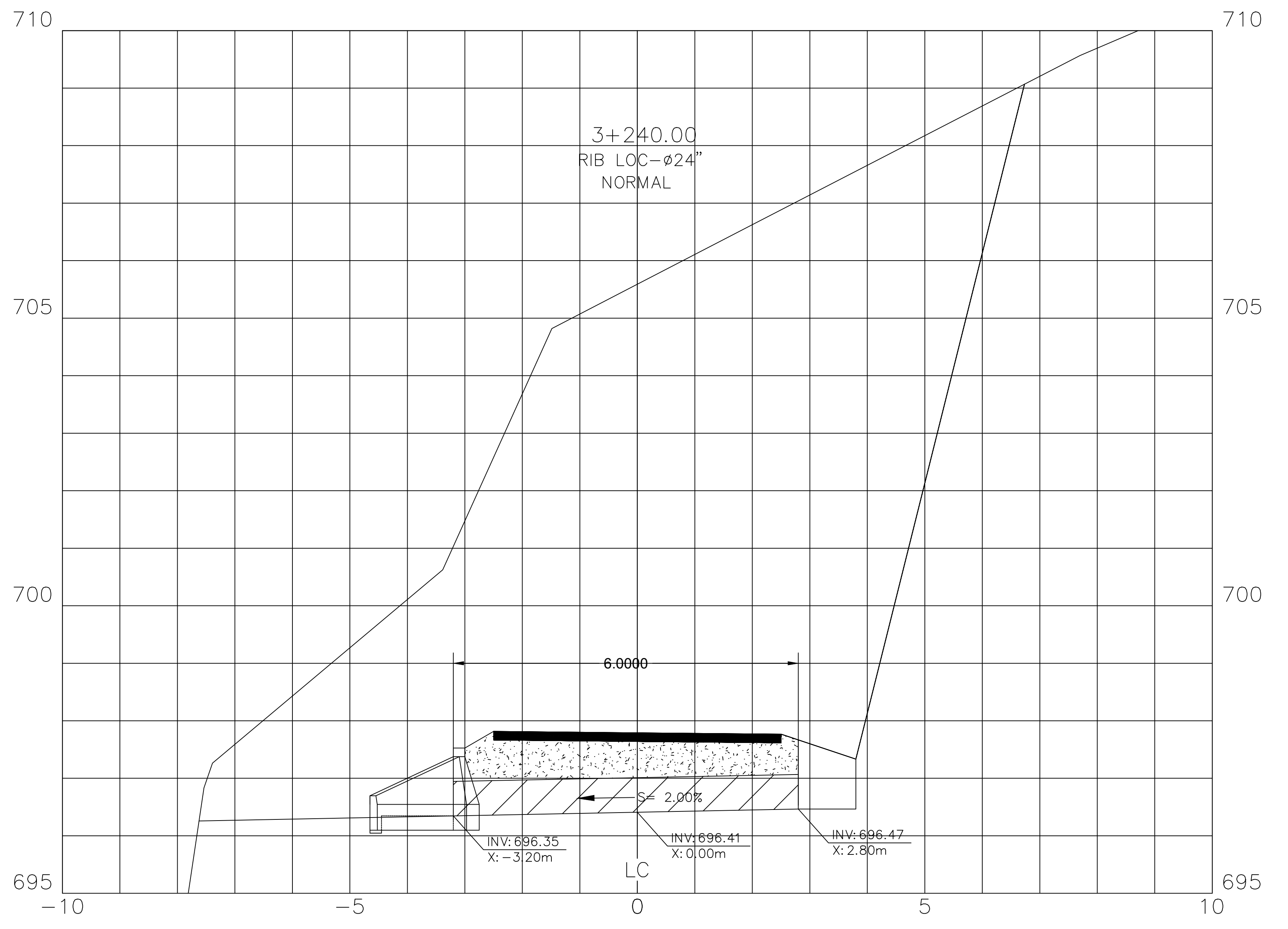
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
17	ALCANTARILLA	3+120.70	441282.68	1583237.65	RIB LOC 24"	NORMAL	687.01	686.95	686.89	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
18	ALCANTARILLA	3+240	441178.98	1583190.89	RIB LOC 24"	NORMAL	696.47	696.41	696.35	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

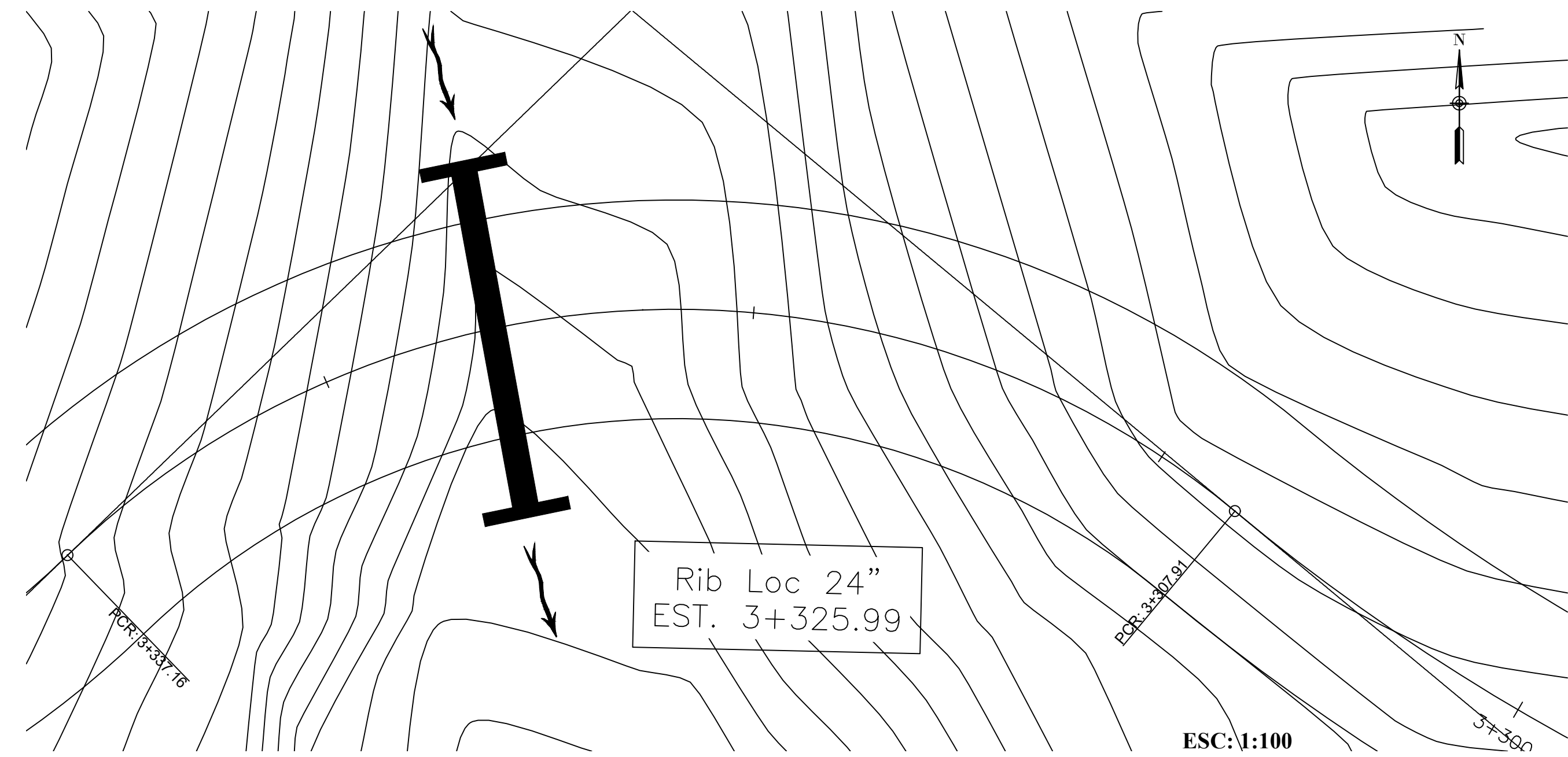


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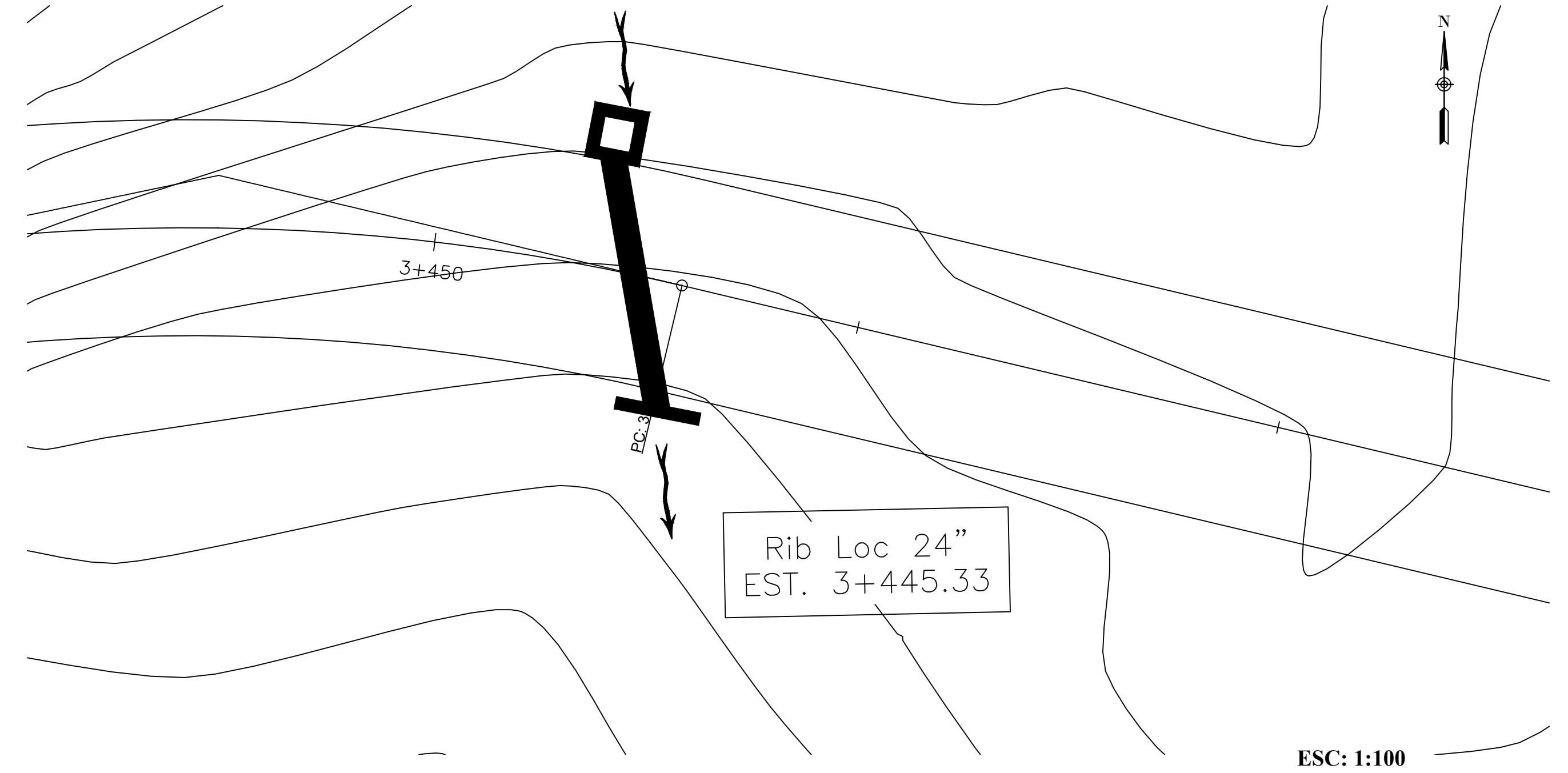
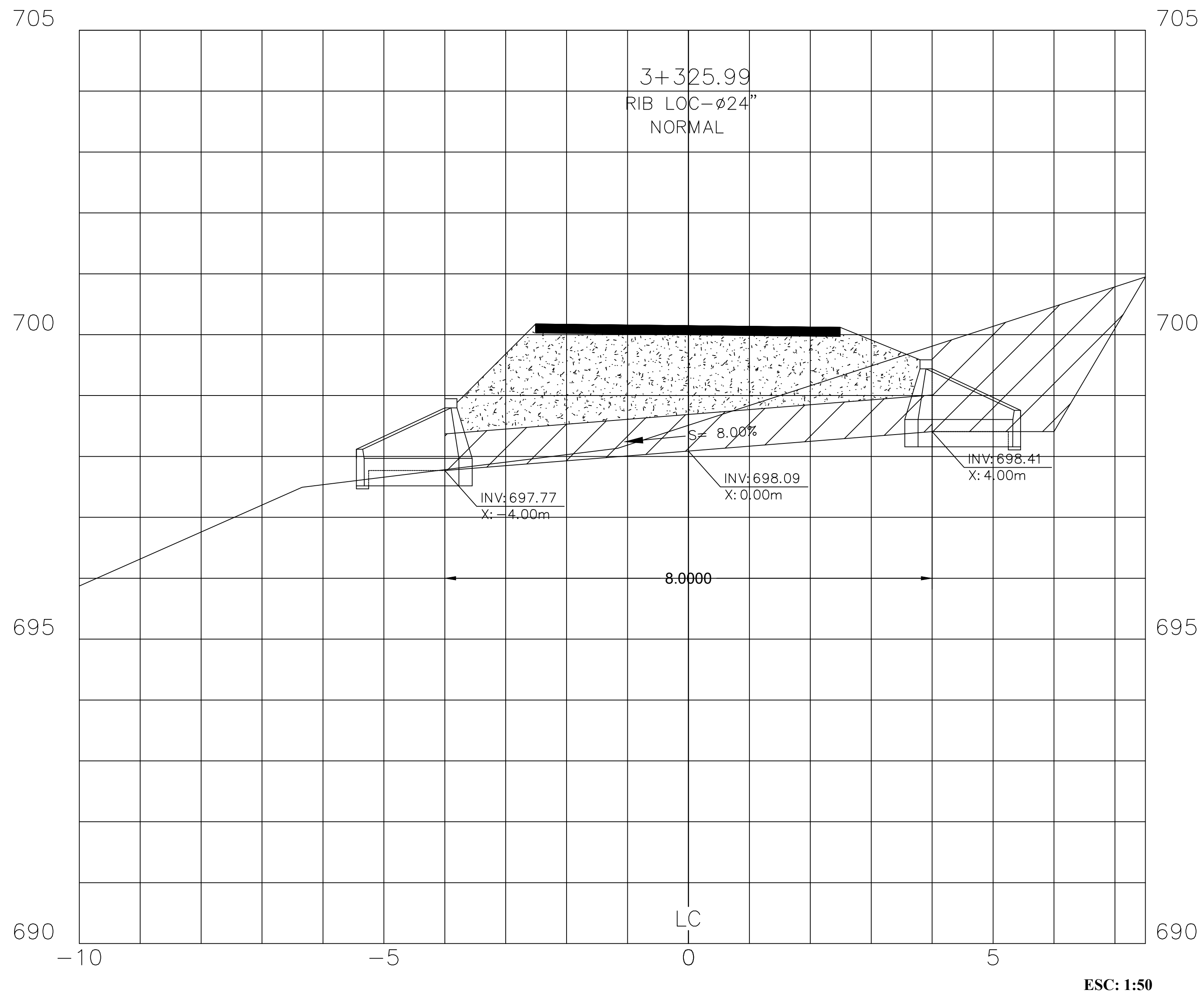


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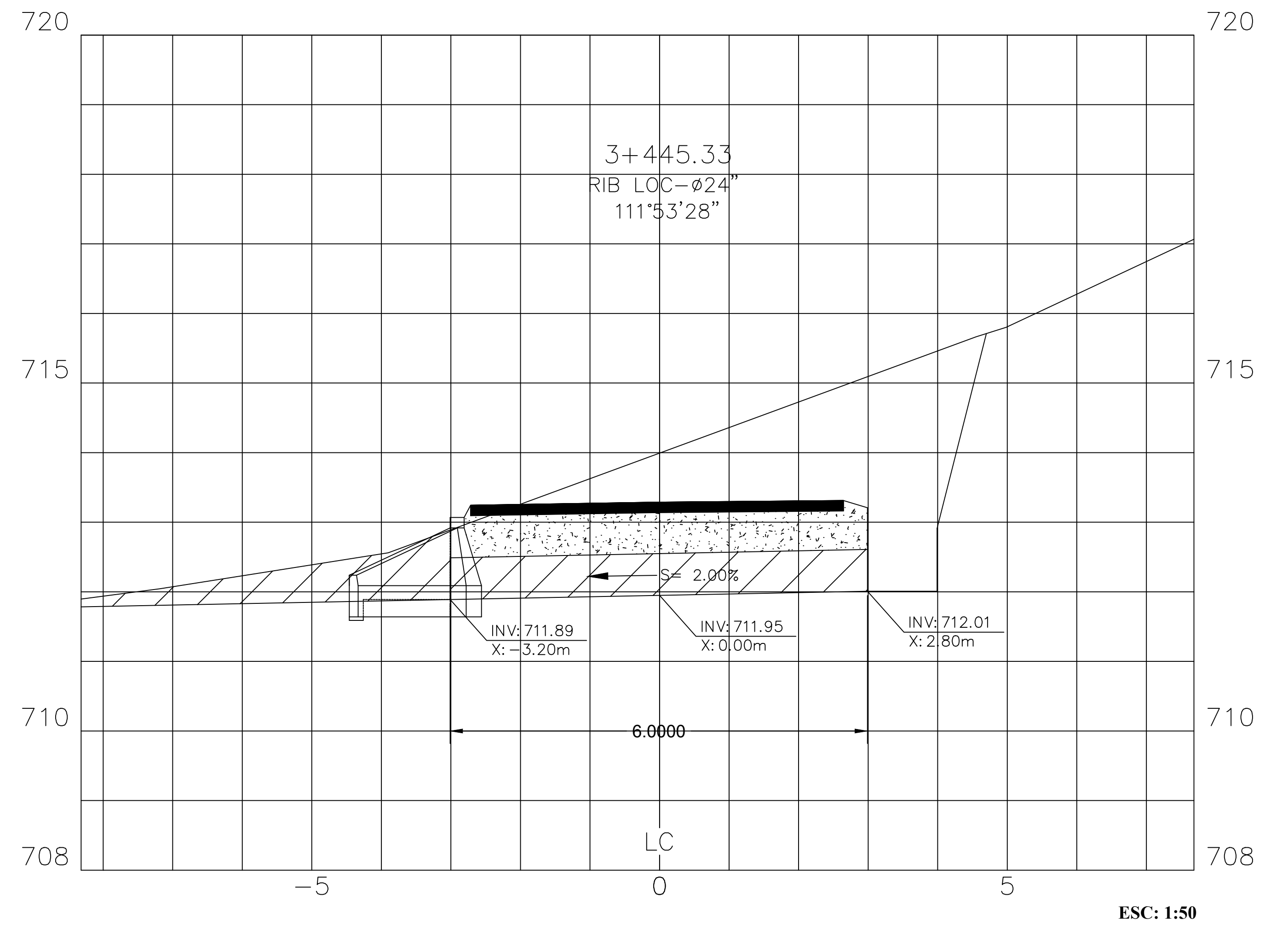
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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
19	ALCANTARILLA	3+325.99	441098.16	1583198.09	RIB LOC 24"	NORMAL	698.41	698.09	697.77	8	8.00	D-I	1	1	Acondicionar entrada y salida.

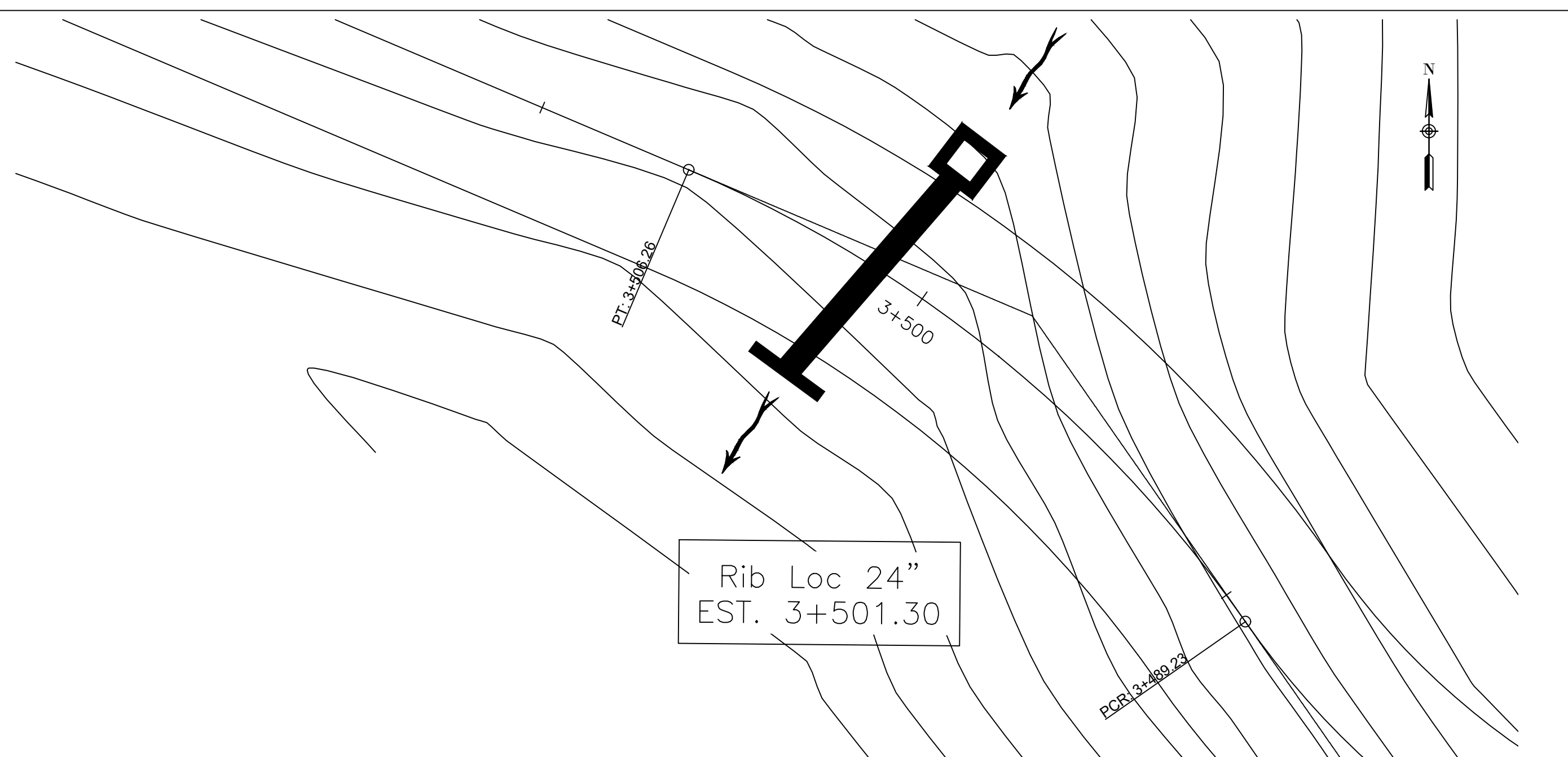


No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
20	ALCANTARILLA	3+445.33	440984.17	1583208.21	RIB LOC 24"	111°53'28"	712.01	711.95	711.89	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.



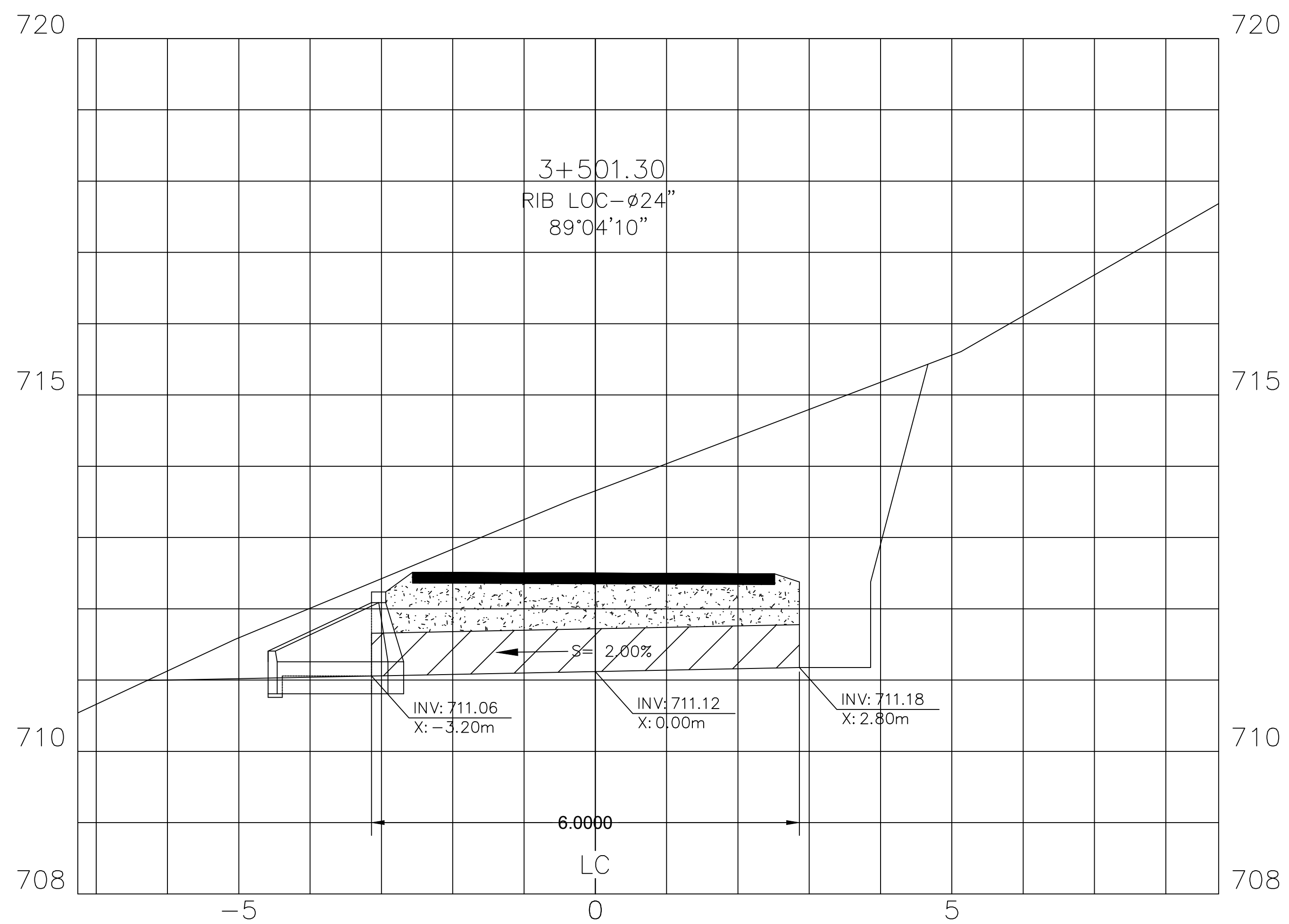
OCTUBRE 2020 DEL ACC-30 AL ACC-41.dwg



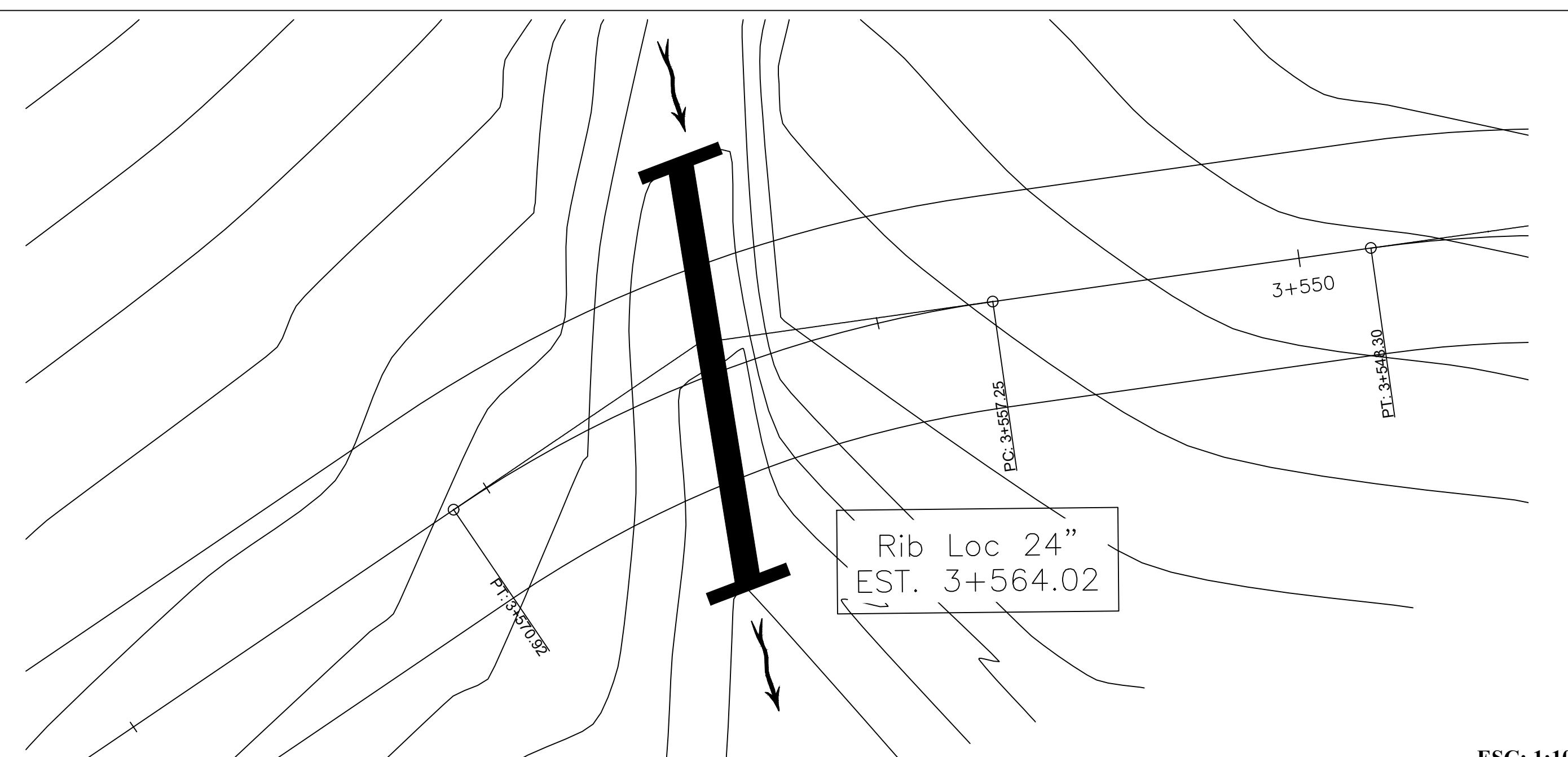


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
21	ALCANTARILLA	3+501.30	440934.62	1583224.69	RIB LOC 24"	89°04'10"	711.18	711.12	711.06	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.

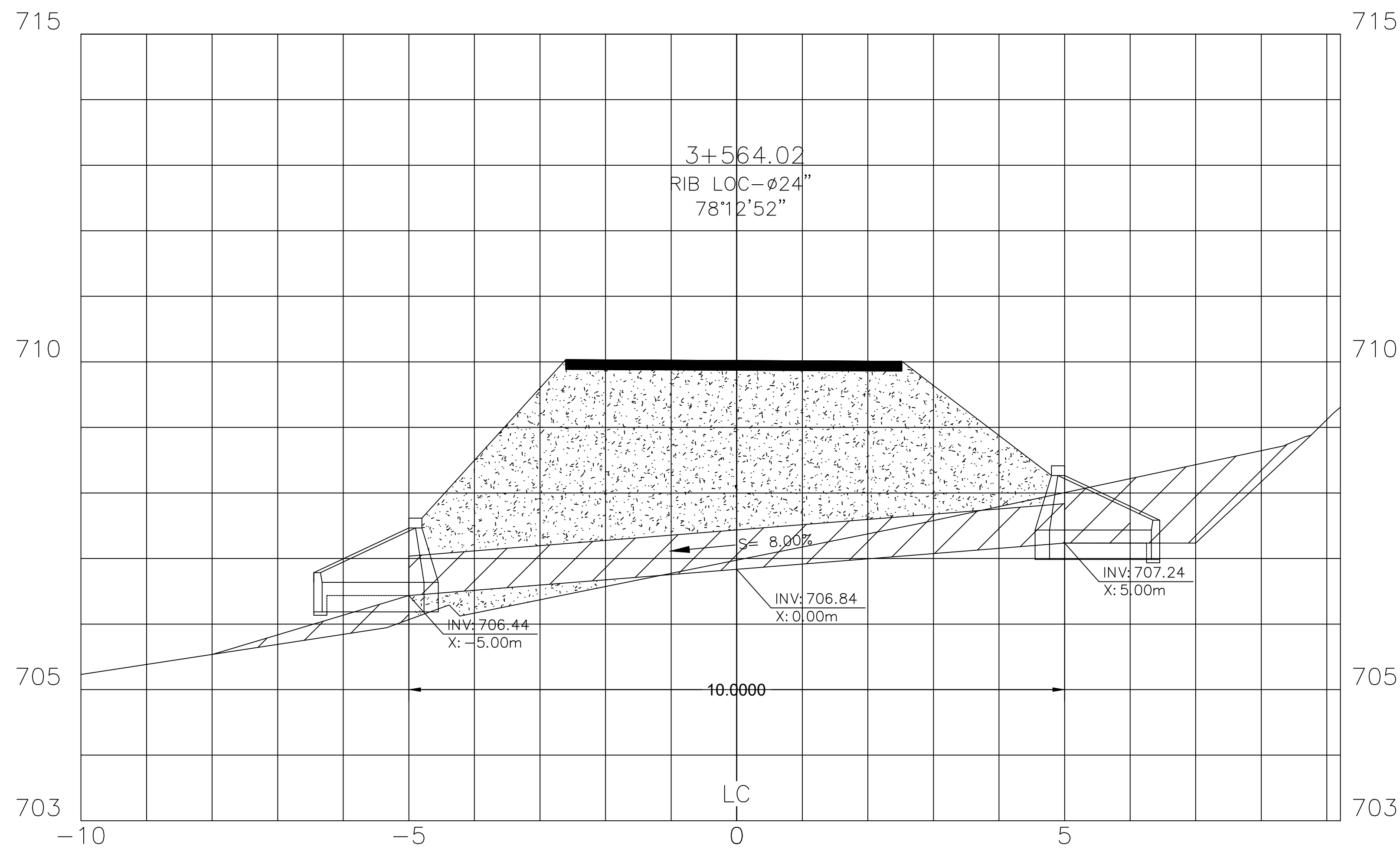


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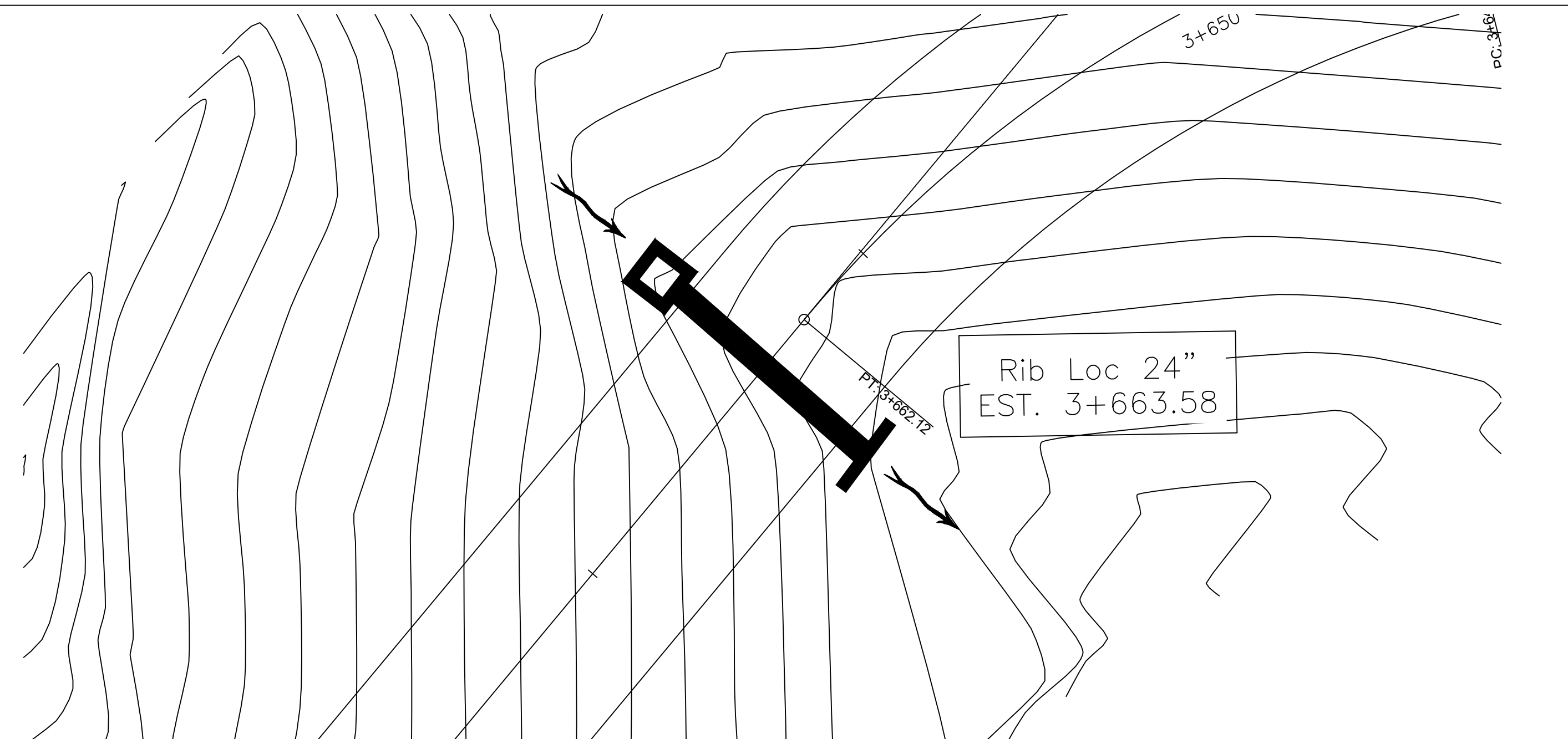


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No.	DRENAJE	ESTACIÓN	COORDENADAS UTM		MATERIAL Ø"	ESVIAJE ADEL. IZQ.	INV. ENTRADA	INV. LC	INV. SALIDA	LONG. (m)	PENDIENTE (%)	SENTIDO	CABEZAL ENT.	CABEZAL SAL.	OBSERVACIONES
			X	Y											
22	ALCANTARILLA	3+564.02	440875.18	1583236.22	RIB LOC 24"	78°12'52"	707.24	706.84	706.44	10	8.00	D-I	1	1	Acondicionar entrada y salida.

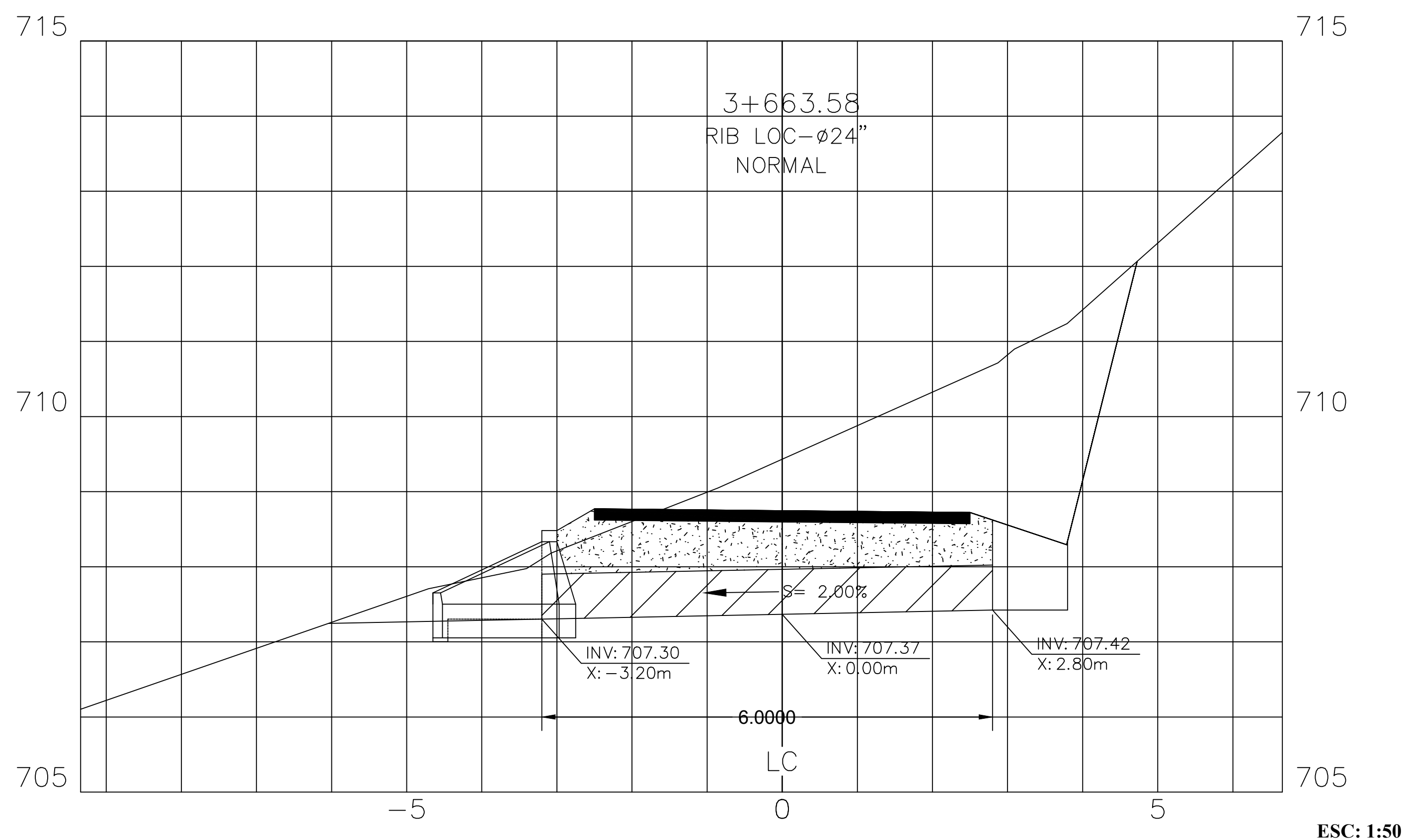


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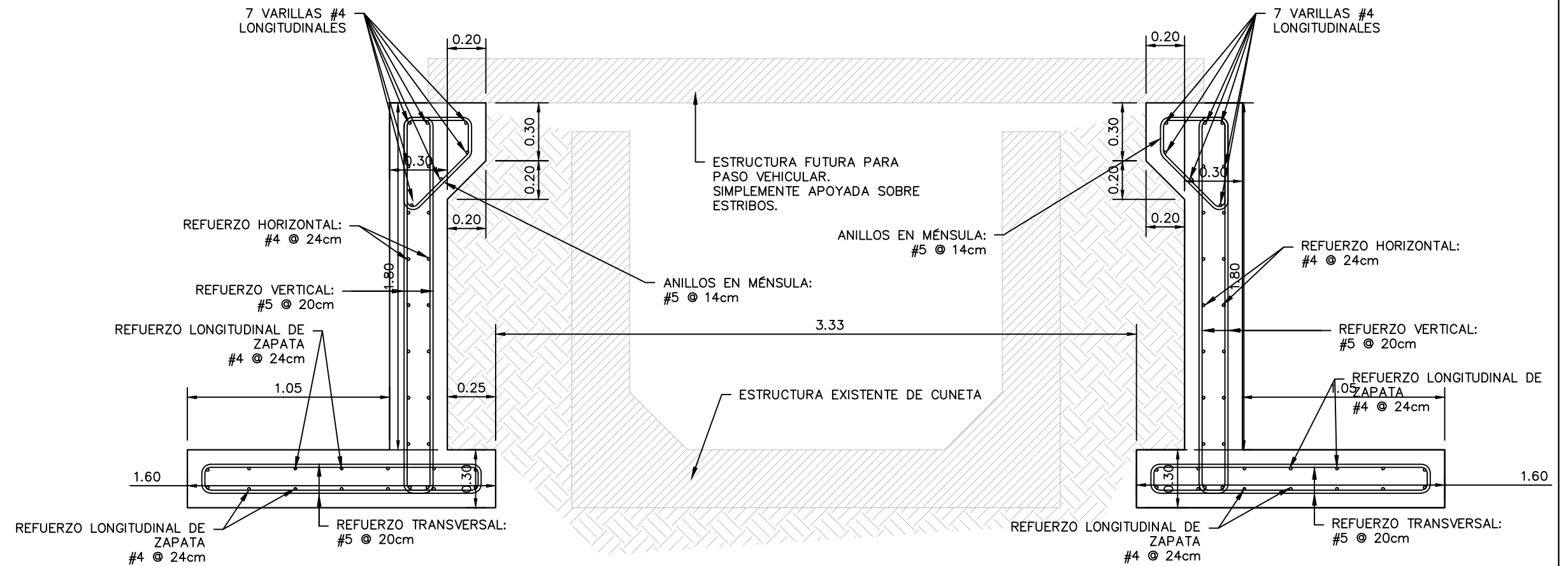
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			X	Y											
23	ALCANTARILLA	3+663.58	440789.95	1583186.94	RIB LOC 24"	NORMAL	707.42	707.37	707.30	6	2.00	D-I		1	Construir tragante en la entrada de 1.00m x 1.00m. Acondicionar salida.



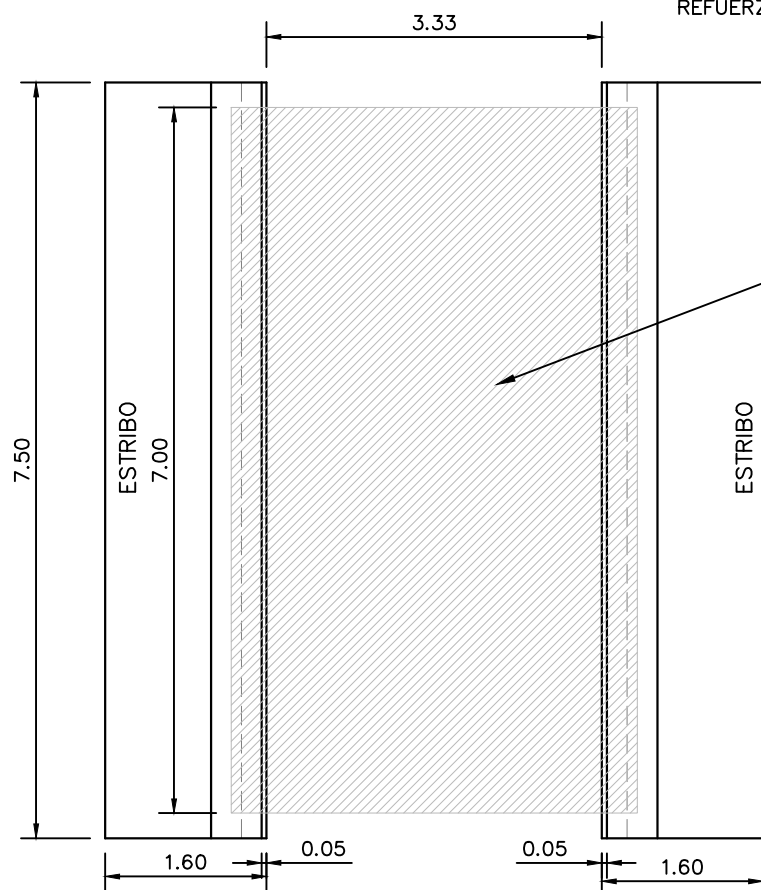
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OCTUBRE 2020 DEL ACC-30 AL ACC-41.dwg

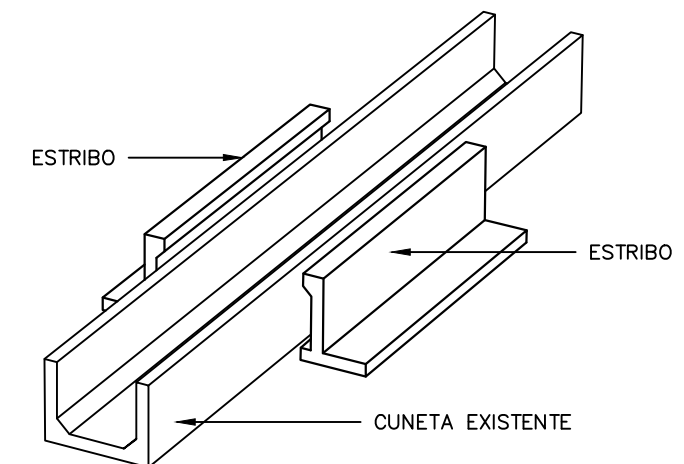
ESTRUCTURA:	EDGARDO AVILA	CICH 6212
DIBUJO:	JORGE TORRES	
PROYECTO:	JORGE TORRES	
REVISO:	ING. MANUEL CONDE CUEVAS	CICH 4028
APROBO:	ING. MANUEL CONDE CUEVAS	CICH 4028



SECCIÓN TRANSVERSAL DE ESTRIBOS PARA PASO VEHICULAR  
ESCALA: 1:50



PLANTA DESCRIPTIVA DE ESTRIBOS PARA PASO VEHICULAR  
ESCALA: 1:75



SECCIÓN TRANSVERSAL DE ESTRIBOS DE PASO VEHICULAR  
ESCALA: 1:50

MECC

PROYECTO: SISTEMA PARA LA CALIDAD DEL AGUA EN EL MUNICIPIO DE LA VILLA DE SAN ANTONIO CORREDOR SECO Y TURÍSTICO MARAVILLAS COLONIAL TENAMPÚA - ZONA DE DESARROLLO ECONÓMICO DE PALMEROLA (ZDEP)

UBICACIÓN: RIÓ SAN JOSÉ

PROPIETARIO: MUNICIPALIDAD VILLA DE SAN ANTONIO DEPARTAMENTO DE COMAYAGUA

CONTENIDO: NOTAS ESTRUCTURALES HOJA 1/2

ESTRUCTURA:	EDGARDO AVILA	CICH 6212
DIBUJO:	JORGE TORRES	
PROYECTO:	JORGE TORRES	
REVISO:	ING. MANUEL CONDE CUEVAS	CICH 4028
APROBO:	ING. MANUEL CONDE CUEVAS	CICH 4028

ESCALA: 1/200 HOJA: ES-01  
FECHA: ENERO 2021

NOTAS ESTRUCTURALES

CONCRETO  $f'c=280 \text{ kg/cm}^2$  EN OBRAS DE ALMACENAMIENTO DE AGUA (TANQUES, PLANTA DE TRATAMIENTO) Y  $f'c=210 \text{ kg/cm}^2$  EN OTRAS OBRAS.

PESO VOLUMÉTRICO NORMAL  
AGREGADO MÁXIMO 3/4 DE PULGADA TRITURADO  
ASTM C33

CEMENTO PORTLAND ASTM C150, CEMENTO HIDRÁULICO C1157

AGREGADO FINO ASTM C33

ACERO DE REFUERZO, GRADO 60 ASTM A615

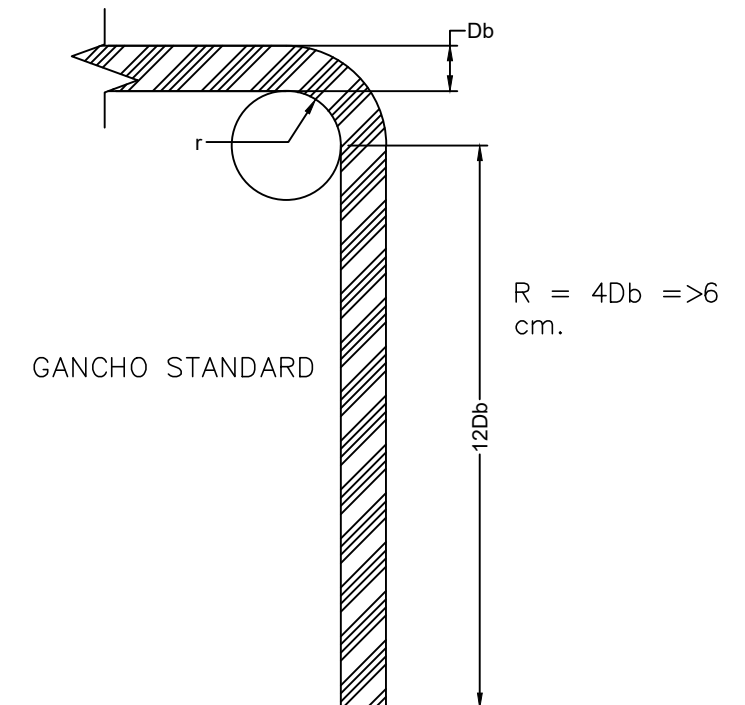
ACERO PARA ARMADURA DE TECHUMBRE DONDE SE REQUIERA SOLDADURA: ASTM A706

LAS BARRAS QUE LLEGUEN A LOS EXTREMOS DE LAS LOSAS Y PAREDES TENDRAN GANCHOS STANDARD COMO SE INDICA.

TABLA DE DIMENSIONES DE VARILLAS

PESOS Y DIMENSIONES NOMINALES DE VARILLAS DE REFUERZO

TAMAÑOS DE VARIILLAS	#3	#4	#5	#6	#8
PESO NOMINAL (Kg/m)	0.560	0.996	1.557	2.242	3.986
DIÁMETROS NOMINAL (db/cm)	0.95	1.27	1.59	1.91	2.54
ÁREA NOMINAL (ab/cm <sup>2</sup> )	0.71	1.27	1.98	2.85	5.07



TRASLAPES LONGITUDINALES

NO SE USARÁN JUNTAS TRASLAPADAS EN:

- DENTRO DE LAS UNIONES.
- DENTRO UNA DISTANCIA  $2d$  A PARTIR DEL PAÑO DEL APOYO, O JUNTA, DONDE "d" ES EL PERALTE DE LA LOSA, O LA DIMENSIÓN MÁXIMA DE LA COLUMNA.
- LAS BARRAS DE LOS MUROS SE TRASLAPARÁN EN FORMA ALTERNA Y LA DISTANCIA ENTRE LOS CENTROS DE DICHOS TRASLAPES TENDRÁ UN MÍNIMO DE 60cm.

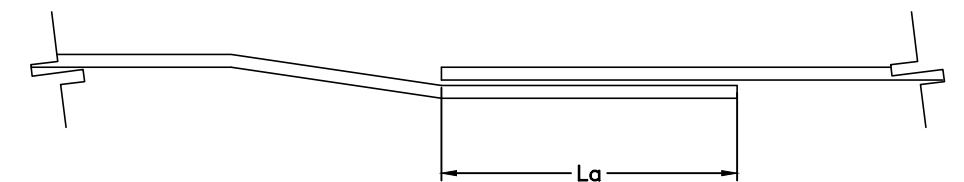


TABLA DE TRASLAPES

MATERIALES	CALIBRES	DIÁMETROS	ANCLAJES o TRASLAPES (L <sub>a</sub> )
CONCRETO $F'_c = 280 \text{ kg/cm}^2$ (OBRAS DE ALMACENAMIENTO DE AGUA)  $F'_c = 210 \text{ kg/cm}^2$ (OTRAS OBRAS)	2	1/4"	30 cm
	3	3/8"	40 cm
	4	1/2"	40 cm
	5	5/8"	50 cm
	6	3/4"	63 cm
	8	1"	116 cm

## RECUBRIMIENTO:

- VIGAS Y COLUMNAS \_\_\_\_\_ 4 cm
- ZAPATAS \_\_\_\_\_ 7.5 cm
- LOSAS DE ENTREPISO \_\_\_\_\_ 2 cm
- PAREDES DE PAREDES DE TANQUES \_\_\_\_\_ 7.5cm PARA PAREDES CON ESPESOR MAYOR O IGUAL A 30cm, 5cm PARA PAREDES CON ESPESOR MENOR A 30cm PERO MAYOR O IGUAL A 20cm
- SOLDADURA ELECTRICA \_\_\_\_\_ E70-XX

Si el acero de refuerzo se coloca sobre una capa fresca de concreto que tenga un grosor de 30 cm o más, los valores de los anclajes o traslapes de la tabla de traslapes se deberán multiplicar por 1.4.