



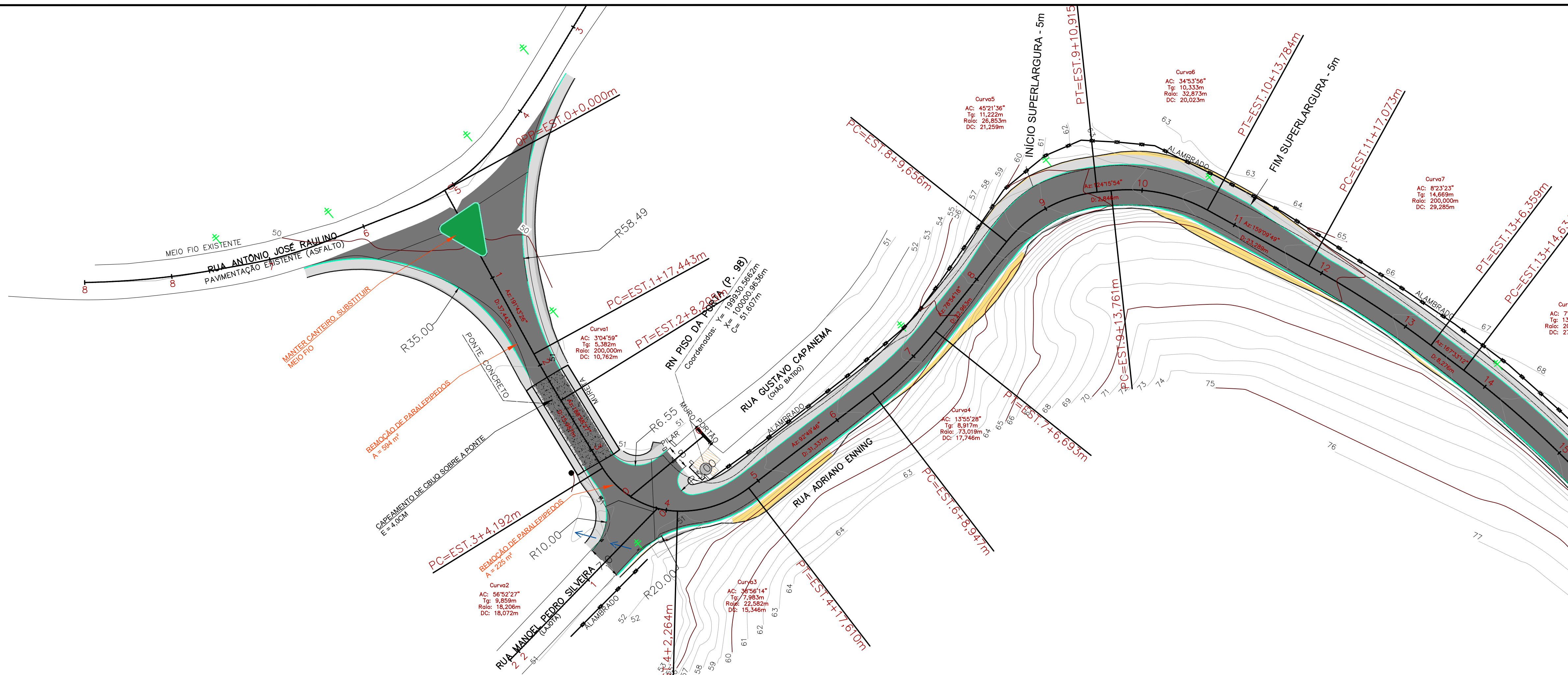
*ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
" GRANFPOLIS "*

**META 1 - PAVIMENTAÇÃO ASFÁLTICA, DRENAGEM E
SINALIZAÇÃO VIÁRIA DA RUA ADRIANO ENNING
EXTENSÃO 1229,0 m**

**RUA ADRIANO ENNING
SÃO PEDRO DE ALCÂNTARA/SC**

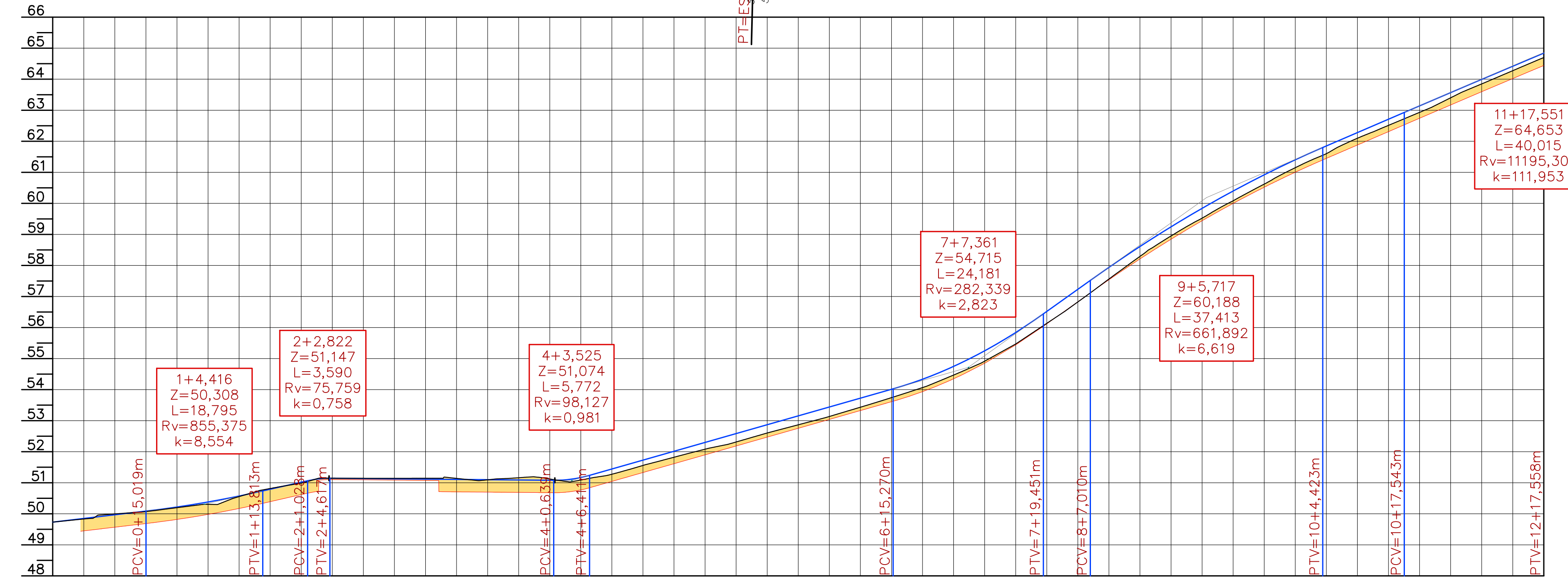
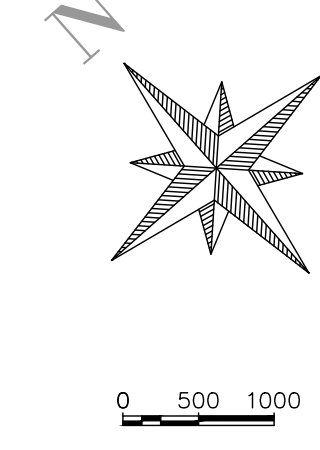
**PROJETOS DE ENGENHARIA
PAVIMENTAÇÃO, DRENAGEM,
PASSEIOS E SINALIZAÇÃO
VOLUME 04**

MARÇO/2022



LEGENDA

- POSTE EXISTENTE
- CADASTRO
- MEIO-FIO - PRÉ-MOLDADO
- PAVIMENTO PROJETADO
- PASSEIO PROJETADO
- CORTE
- ATERRO
- BORDOS EXISTENTES
- EIXO DA PISTA DE TRÁFEGO
- GREIDE DE TERRAPLENAGEM
- GREIDE DE PAVIMENTO ACABADO
- DEMOLIÇÃO/DESLOCAMENTOS



ESTACAS	COTAS TERRENO	CORTE ATERRO	COTAS PROJETO	COTAS TERRAPLENO	ELEMENTOS HORIZONTAIS	ELEMENTOS VERTICAIS
0+0,000	49,732		49,732	49,568	Tg=37,443m	i = 2,36% em 15,02m
0+5,00	49,997	0,429	49,968	49,819		Lc = 18,79m
0+15,00	50,197	0,378	50,176	50,172		i = 4,56% em 7,21m
1+5,00	50,584	0,383	50,571	50,502		Lc = 3,59m
1+15,00	50,903	0,370	50,903	50,619		
1+17,443	50,989	0,370	50,989	51,086		
2+5,00	51,147	0,050	51,144	51,098		
2+15,00	51,145	0,050	51,144	51,094		
2+15,00	51,145	0,068	51,116	51,076		i = -0,18% em 36,02m
3+4,192	51,158	0,395	51,094	50,709		Lc = 5,77m
3+5,00	51,094	0,441	51,081	50,699		
3+15,00	51,140	0,231	51,044	50,693		
4+2,264	51,122	0,130	51,040	50,681		
4+5,00	51,052	0,113	51,044	50,690		
4+9,337	51,271	0,109	51,444	51,040		
4+15,00	51,274	0,131	51,444	51,044		
4+17,610	51,695	0,068	51,478	51,478		
5+5,00	51,822	0,017	51,614	51,614		
5+5,00	52,314	0,017	52,584	52,184		
5+15,00	52,867	0,07	53,155	52,755		
6+5,00	53,370	0,024	53,665	53,265		
6+8,947	53,434	0,106	53,725	53,325		
6+15,00	53,922	0,085	54,066	53,782		
7+5,00	54,614	0,147	54,614	54,508		
7+5,00	54,918	0,218	54,918	54,808		
7+15,00	56,135	0,191	56,516	56,118		
8+5,00	57,511	0,252	57,891	57,491		
8+9,656	57,562	0,252	57,938	57,538		
8+15,00	58,950	0,106	59,245	58,844		
9+5,00	59,984	0,085	59,280	59,999		
9+5,00	60,084	0,147	60,403	60,084		
9+10,915	60,492	0,218	61,443	60,989		
9+15,00	61,150	0,191	61,443	61,343		
10+5,00	61,485	0,252	62,280	61,880		
10+3,772	62,098	0,191	62,206	62,098		
10+13,784	62,411	0,252	63,141	62,741		
10+15,00	62,932	0,252	63,141	63,596		
11+5,00	63,848	0,252	64,452	64,195		
11+15,00	64,452	0,255	64,942	64,442		
12+17,558	64,697					

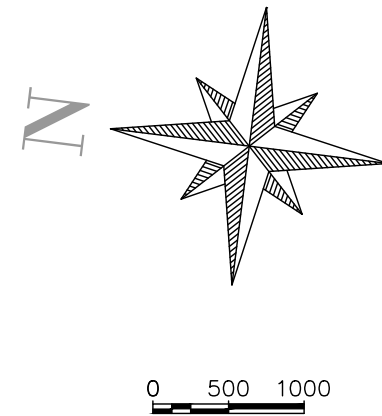
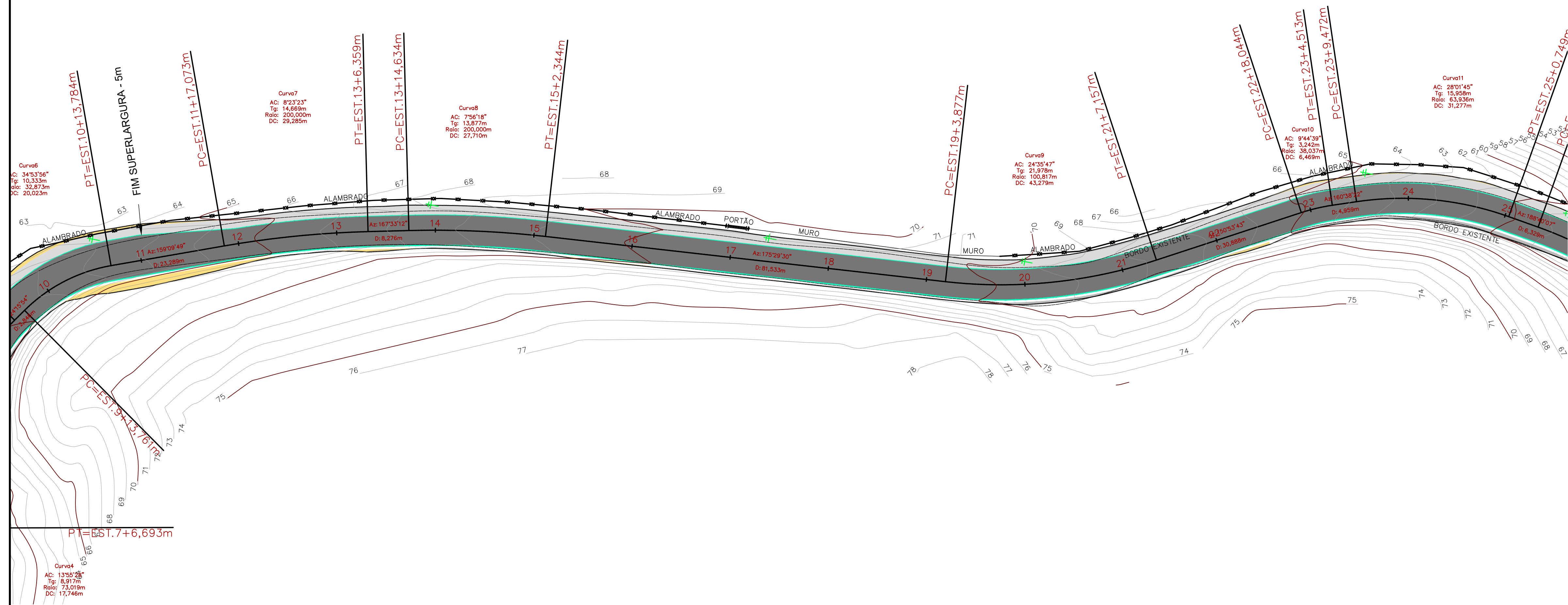
PROJETO GEOMÉTRICO

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO PLANTA BAIXA E PERFIL LONGITUDINAL
PROJETO	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

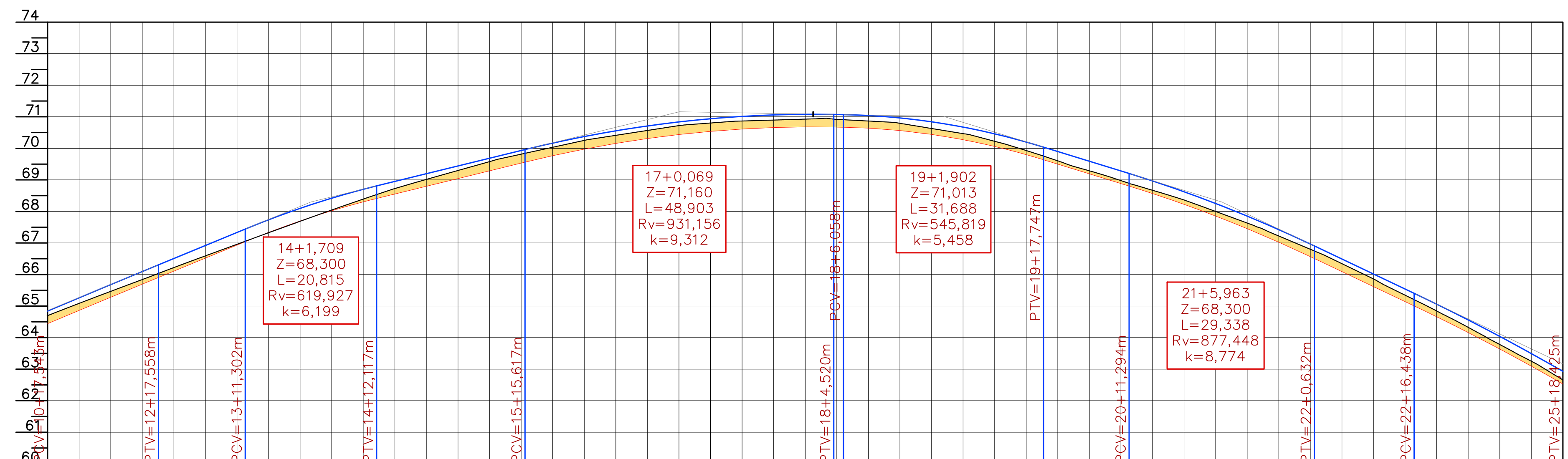
REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	1/11

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFpolis"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA

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ESTACAS	12+5,00		12+11,716		12+15,00		13		13+5,00		13+14,634		13+15,00		14		14+5,00		15		15+5,00		16		16+5,00		16+15,00		17		17+5,00		18		18+5,00		18+15,00		19		19+5,00		19+15,00		20		20+5,00		20+15,00		21		21+5,00		22		22+5,00		22+15,00		23		23+5,00		24	
COTAS TERRENO	64,637	65,466	65,595	66,220	66,692	66,958	67,298	67,687	68,287	68,303	69,015	69,149	69,286	69,579	70,033	70,412	70,721	70,866	70,866	70,630	70,503	70,223	69,603	69,259	68,977	68,363	67,840	67,632	66,800	65,860	65,046	64,846	64,378	63,538	63,782	62,659																														
CORTE ATERRO	0,255	0,187	0,113	0,025	0,011	0,088	0,219	0,292	0,267	0,257	0,284	0,254	0,247	0,225	0,188	0,164	0,105	0,094	0,139	0,180	0,234	0,244	0,185	0,144	0,130																																									
COTAS PROJETO	64,842	65,679	65,822	66,507	67,032	67,333	67,707	68,098	68,622	68,703	69,196	69,311	69,686	70,166	70,555	70,837	71,012	71,040	70,841	70,715	70,459	69,899	69,559	69,283	68,624	67,883	67,452	66,566	65,616	64,851	64,661	64,200	63,694	63,038	62,530																															
COTAS TERRAPLENO	64,442	65,279	65,422	66,107	66,632	66,933	67,307	67,698	68,221	68,303	68,796	68,911	69,286	69,766	70,155	70,437	70,612	70,640	70,441	70,315	70,059	69,499	69,159	68,883	68,224	67,483	67,052	66,166	65,216	64,451	64,261	63,800	63,054	62,546																																
ELEMENTOS HORIZONTAIS	R=200,000m Dc=29,285m		Tg=8,276m		R=200,000m Dc=27,710m		Tg=8,276m		Tg=81,533m		R=100,817m Dc=43,279m		Tg=30,888m		R=38,037m Dc=6,469m		R=63,936m Dc=31,277m																																																	
ELEMENTOS VERTICAIS	Lc= 40,01m	i= 8,26% em 13,74m	Lc= 20,81m	i= 4,90% em 23,50m	Lc= 48,90m	i= -0,35% em 1,54m	Lc= 31,69m	i= -6,16% em 13,55m	Lc= 29,34m	i= -9,50% em 15,81m	Lc= 61,99m																																																							

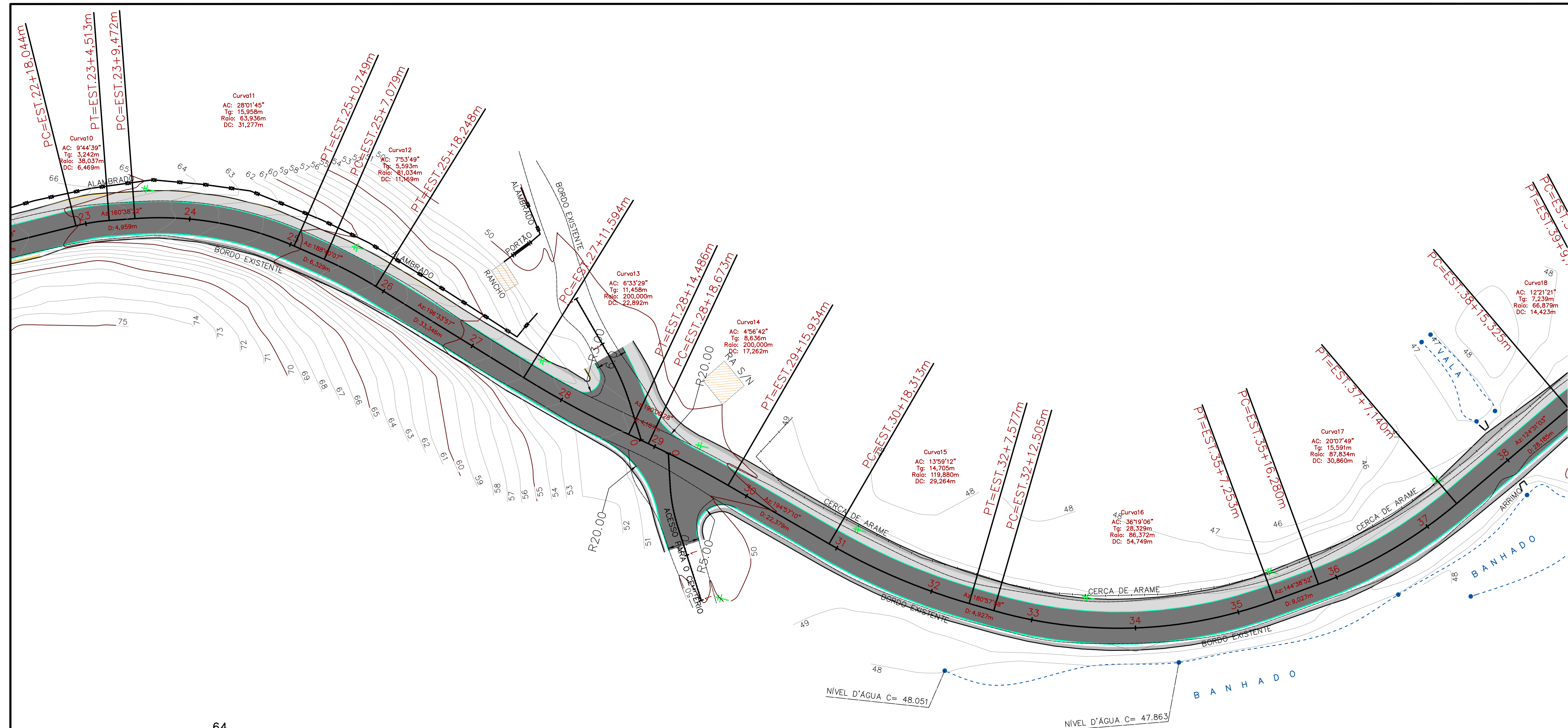
PROJETO GEOMÉTRICO

MUNICÍPIO: SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO PLANTA BAIXA E PERFIL LONGITUDINAL
PROJETO	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

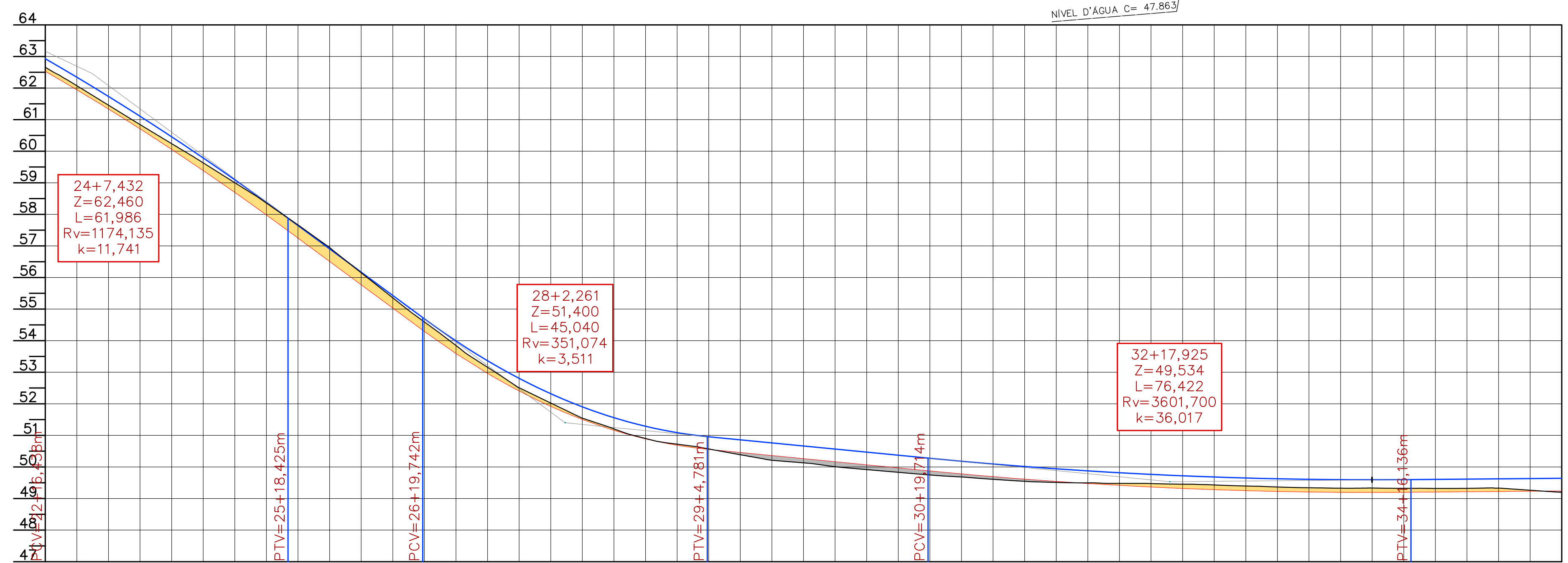
REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	02/11





LEGENDA

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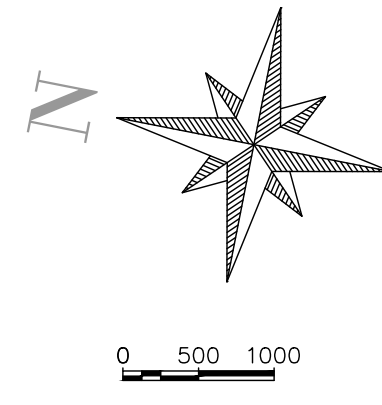
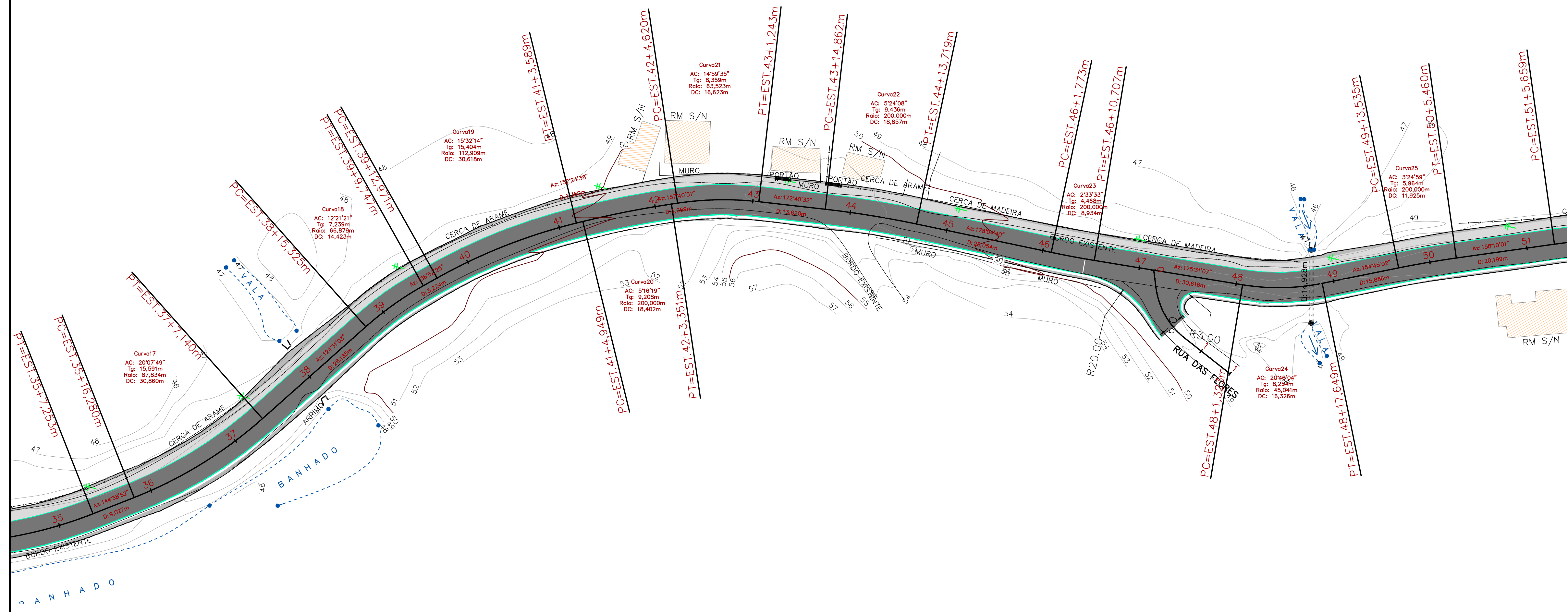
PROJETO GEOMÉTRICO

MUNICÍPIO
SÃO PEDRO DE ALCÂNTARA - SC

OBRA RUA ADRIANO ENNING	CONTEÚDO PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO PLANTA BAIXA E PERFIL LONGITUDINAL
PROJETO VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	APROVAÇÃO DA PREFEITURA

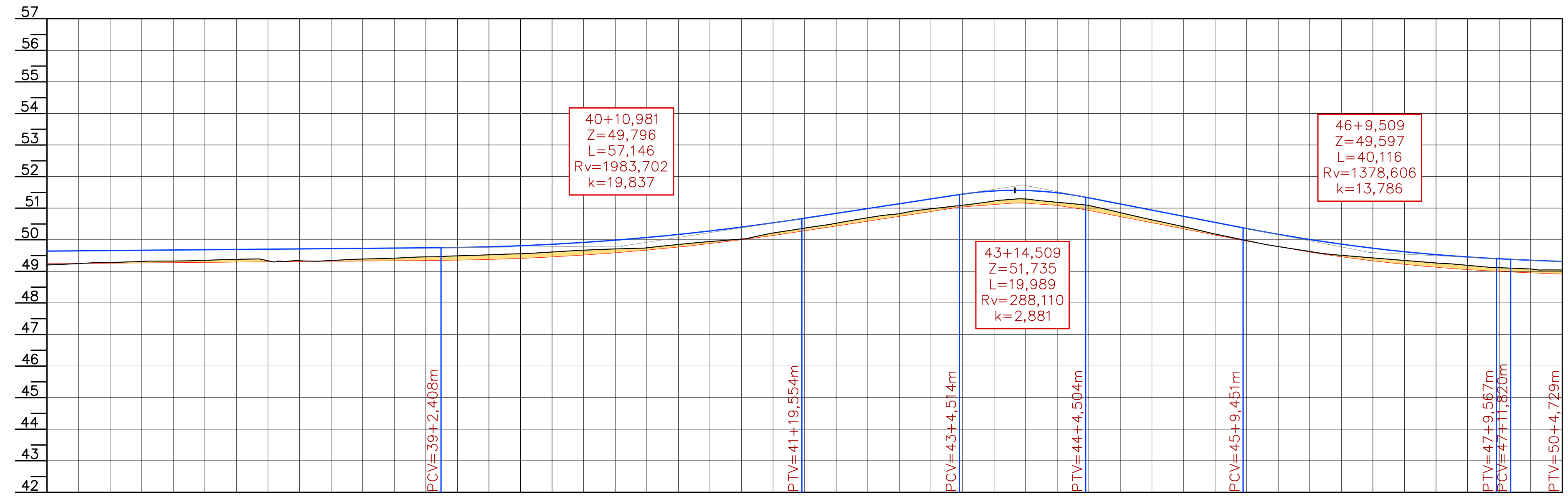
REVISÃO versão inicial	DATA MAR/2022	PRANCHA 03/11
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ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFpolis"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA

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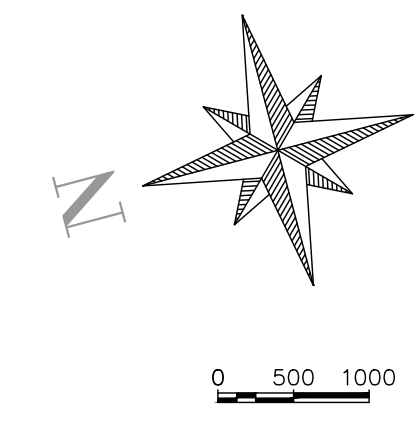
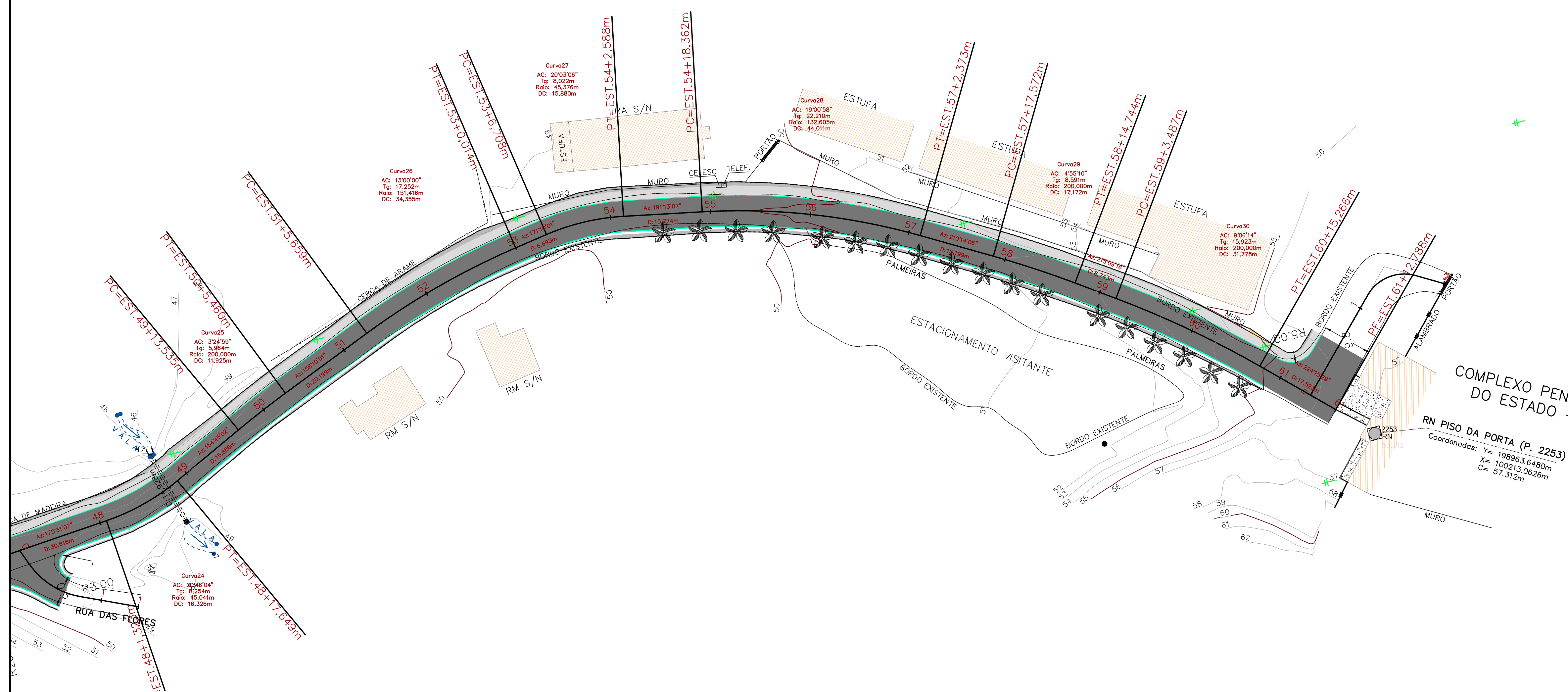
ESTACAS	COTAS TERRENO	CORTE ATERRO	COTAS PROJETO	COTAS TERRAPLENO	ELEMENTOS HORIZONTAIS	ELEMENTOS VERTICAIS
36+5,00	49,201	0,039	49,640	49,240	R=87,834m Dc=30,860m	i = 0,17% em 86,27m
36+15,00	49,281	0,024	49,680	49,257		
37+5,00	49,325	0,051	49,675	49,274	Tg=28,185m Dc=14,423m	Lc = 57,15m
37+15,00	49,363	0,086	49,687	49,287		
38+5,00	49,387	0,062	49,726	49,326	R=112,909m Dc=30,618m	i = 3,05% em 24,96m
38+15,00	49,418	0,114	49,735	49,335		
39+5,00	49,457	0,148	49,747	49,343	R=200,000m Dc=16,623m	Lc = 19,99m
39+15,00	49,488	0,156	49,855	49,357		
40+5,00	49,521	0,123	49,860	49,373	R=200,000m Dc=18,857m	i = -3,89% em 24,95m
40+15,00	49,544	0,082	49,849	49,384		
41+5,00	49,568	0,092	49,849	49,399	Tg=13,620m Dc=18,857m	Lc = 40,12m
41+15,00	49,589	0,109	49,849	49,409		
42+5,00	49,609	0,087	49,849	49,421	R=200,000m Dc=8,934m	i = -0,98% em 2,25m
42+15,00	49,627	0,113	49,849	49,431		
43+5,00	49,646	0,100	49,849	49,441	Tg=28,054m	Lc = 52,91m
43+15,00	49,662	0,125	49,849	49,451		
44+5,00	49,677	0,069	49,849	49,461	Tg=30,616m	
44+15,00	49,691	0,016	49,849	49,471		
45+5,00	49,709	0,020	49,849	49,481		
46+5,00	49,727	0,020	49,849	49,491		
47+5,00	49,743	0,093	49,849	49,501		
48+5,00	49,757	0,135	49,849	49,511		
49+5,00	49,769	0,118	49,849	49,521		
50+5,00	49,779	0,130	49,849	49,531		
51+5,00	49,787		49,849	49,541		

PROJETO GEOMÉTRICO

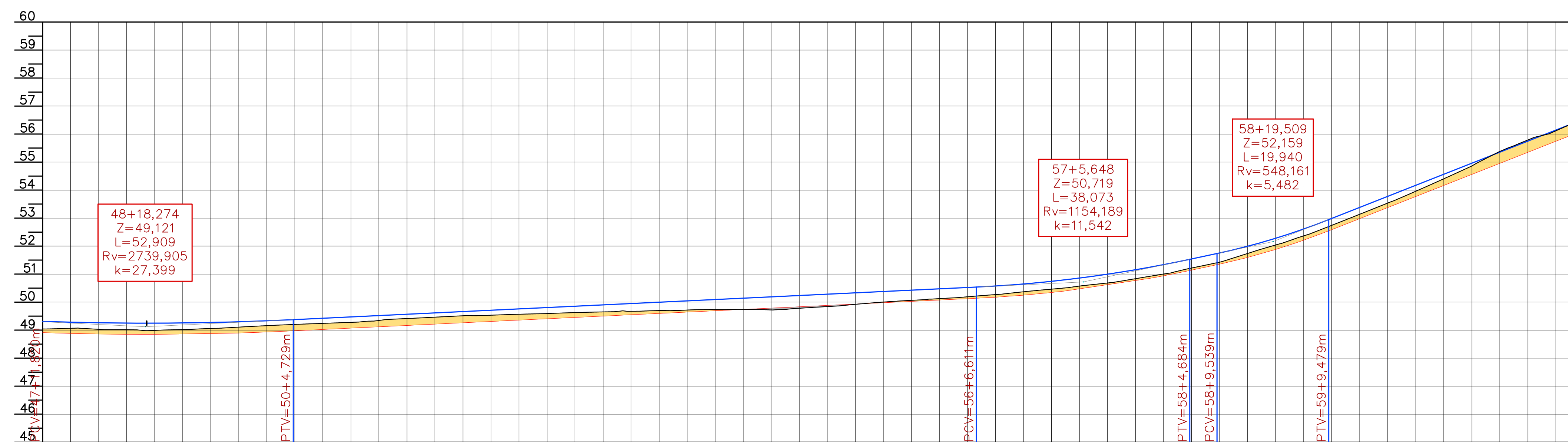
MUNICÍPIO	SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	RUA ADRIANO ENNING	
CONTEÚDO	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO PLANTA BAIXA E PERFIL LONGITUDINAL	
PROJETO	APROVAÇÃO DA PREFEITURA	
REVISÃO	DATA	FRANCHA
versão inicial	MAR/2022	04/11

VINÍCIUS FELLER
Engenheiro Civil
CREA/SC 147.982-3

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA	
	POSTE EXISTENTE
	CADASTRO
	MEIO-FIO - PRÉ-MOLDADO
	PAVIMENTO PROJETADO
	PASSEIO PROJETADO
	CORTE
	ATERRO
	BORDOS EXISTENTES
	EIXO DA PISTA DE TRÁFEGO
	GREIDE DE TERRAPLENAGEM
	GREIDE DE PAVIMENTO ACABADO
	DEMOLIÇÃO/DESLOCAMENTOS



ESTACAS	COTAS TERRENO	CORTE	COTAS PROJETO	COTAS TERRAPLENO	ELEMENTOS HORIZONTAIS	ELEMENTOS VERTICAIS
48+00	49,041	0,130	49,332	48,800	R=39,616m Dc=16,326m	Lc= 52,91m
48+50	49,034	0,166	49,264	48,864		
49+00	48,993	0,141	49,249	48,849	R=200,000m Dc=11,925m	Tg=15,886m
49+50	49,058	0,179	49,289	48,889		
50+00	49,154	0,227	49,332	48,932	R=151,416m Dc=34,355m	Tg=20,199m
50+50	49,208	0,217	49,380	48,980		
51+00	49,345	0,223	49,519	49,119	R=132,605m Dc=44,011m	Tg=15,774m
51+50	49,533	0,187	49,573	49,173		
52+00	49,650	0,149	49,680	49,215	R=200,000m Dc=17,172m	Tg=8,743m
52+50	49,677	0,103	49,699	49,208		
53+00	49,714	0,044	49,736	49,208	R=200,000m Dc=31,778m	Tg=17,523m
53+50	49,721	0,067	49,751	49,208		
54+00	50,001	0,023	50,022	49,978	R=15,886m Dc=4,5376m	Tg=15,199m
54+50	50,125	0,051	50,125	50,074		
55+00	50,129	0,061	50,129	50,074	R=8,743m Dc=17,172m	Tg=8,743m
55+50	50,268	0,094	50,268	50,174		
56+00	50,462	0,120	50,462	50,342	R=200,000m Dc=17,172m	Tg=8,743m
56+50	50,505	0,064	50,505	50,395		
57+00	50,683	0,072	50,683	50,622	R=200,000m Dc=31,778m	Tg=17,523m
57+50	50,848	0,161	50,848	50,848		
58+00	51,265	0,154	51,265	51,191	R=15,886m Dc=4,5376m	Tg=15,199m
58+50	51,427	0,162	51,427	51,354		
59+00	51,720	0,239	51,720	51,581	R=8,743m Dc=17,172m	Tg=8,743m
59+50	52,040	0,427	52,040	51,879		
60+00	52,267	0,374	52,267	52,105	R=15,886m Dc=4,5376m	Tg=15,199m
60+50	53,487	0,443	53,487	53,327		
61+00	53,537	0,374	53,537	53,376	R=8,743m Dc=17,172m	Tg=8,743m
61+50	54,403	0,427	54,403	54,165		
62+00	54,892	0,374	54,892	54,580	R=15,886m Dc=4,5376m	Tg=15,199m
62+50	55,381	0,443	55,381	54,954		
63+00	56,117	0,374	56,117	55,743	R=8,743m Dc=17,172m	Tg=8,743m
63+50	56,363	0,443	56,363	55,920		

PROJETO GEOMÉTRICO

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	RUA ADRIANO ENNING	CONTEÚDO	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO PLANTA BAIXA E PERFIL LONGITUDINAL
PROJETO		APROVAÇÃO DA PREFEITURA	
REVISÃO	versão inicial	DATA	MAR/2022
		PRANCHA	05/11
		VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA

TABELA DE TANGENTES						
TANGENTE Nº	COMPRIMENTO (m)	AZIMUTE	COORDENADAS INÍCIO	COORDENADAS FINAL	ESTACA INÍCIO	ESTACA FINAL
L1	37.443	S11° 43' 25.78"W	N=20007,1684 E=99997,1979	N=199970,5047 E=99989,5898	0+0	1+17
L2	15.987	S08° 38' 28.66"W	N=19959,9135 E=99987,8875	N=199944,1081 E=99985,2856	2+8	3+4
L3	31.337	S87° 10' 14.05"E	N=19922,0821 E=10005,0850	N=199920,5352 E=10006,3840	4+18	6+9
L4	22.963	N78° 54' 18.06"E	N=19921,8110 E=10005,0398	N=199926,2300 E=10007,5741	7+7	9+0
L5	2.846	S55° 44' 06.33"E	N=19922,0714 E=10006,8604	N=199920,4690 E=10009,2124	9+11	9+14
L6	23.289	S20° 50' 10.61"E	N=19990,4944 E=10011,4273	N=199883,2282 E=10019,7113	10+14	11+17
L7	8.276	S12° 26' 47.88"E	N=19985,1945 E=100128,0906	N=199847,1134 E=100129,8742	13+6	13+15
L8	81.533	S04° 30' 29.63"E	N=199819,7278 E=100133,9960	N=199738,4473 E=100140,3646	15+2	19+4
L9	30.888	S29° 06' 16.84"E	N=19967,3338 E=100152,7826	N=199670,3462 E=100167,8066	21+7	22+18
L10	4.999	S19° 21' 38.05"E	N=19964,4544 E=100174,4585	N=199659,7761 E=100172,1024	23+5	23+9
L11	6.329	S08° 40' 07.35"W	N=19928,9443 E=100174,9875	N=19922,6871 E=100174,0335	25+1	25+7
L12	33.346	S16° 33' 56.57"W	N=19961,7966 E=100171,5958	N=199579,8346 E=100162,0883	25+18	27+12
L13	4.187	S10° 00' 27.76"W	N=19955,5678 E=100156,8301	N=199553,4445 E=100156,1025	28+14	28+19
L14	22.379	S14° 57' 10.09"W	N=19956,5960 E=100152,3734	N=199514,9749 E=100146,5991	29+16	30+18
L15	4.927	S00° 57' 58.18"W	N=19948,0645 E=100142,5569	N=199481,1379 E=100142,4738	32+8	32+13
L16	9.027	S35° 21' 07.67"E	N=19942,7070 E=100158,3874	N=199422,3446 E=100163,6103	35+7	35+16
L17	28.185	S55° 28' 56.58"E	N=19940,7942 E=100185,4769	N=199384,8229 E=100208,7000	37+7	38+15
L18	3.224	S43° 07' 35.44"E	N=19937,4370 E=100219,6138	N=199373,0842 E=100221,8176	40+0	39+13
L19	1.360	S27° 35' 21.63"E	N=19934,1900 E=100239,4814	N=199346,9849 E=100240,1112	41+4	41+5
L20	1.269	S22° 19' 02.76"E	N=19930,3062 E=100247,8721	N=199329,1326 E=100248,3538	42+3	42+5
L21	13.620	S07° 19' 27.95"E	N=19931,1088 E=100252,5938	N=199299,6004 E=100254,3301	43+1	43+15
L22	28.054	S01° 55' 20.06"E	N=19928,8115 E=100255,8495	N=199252,7735 E=100256,7905	44+14	46+2
L23	30.616	S04° 28' 53.41"E	N=19924,8546 E=100257,2894	N=199213,3322 E=100259,6817	46+11	48+1
L24	15.886	S25° 14' 57.84"E	N=19919,6388 E=100263,8473	N=199183,2704 E=100270,6236	48+18	49+14
L25	20.199	S21° 49' 59.15"E	N=19917,3394 E=100275,3859	N=199153,5893 E=100282,8980	50+5	51+6
L26	6.893	S08° 49' 59.06"E	N=19910,5279 E=100291,9631	N=199113,9140 E=100292,9909	53+0	53+7
L27	15.774	S11° 13' 07.31"W	N=19908,1182 E=100292,6620	N=199062,6452 E=100289,5930	54+3	54+18
L28	15.199	S30° 14' 05.67"W	N=19904,1674 E=100274,0884	N=199028,5403 E=100266,4352	57+2	57+18
L29	8.743	S35° 09' 15.72"W	N=19901,0933 E=100257,1623	N=199006,9446 E=100252,1280	58+15	59+3
L30	17.523	S44° 15' 29.41"W	N=18898,5224 E=100231,8477	N=188969,9724 E=100219,6196	60+15	61+13

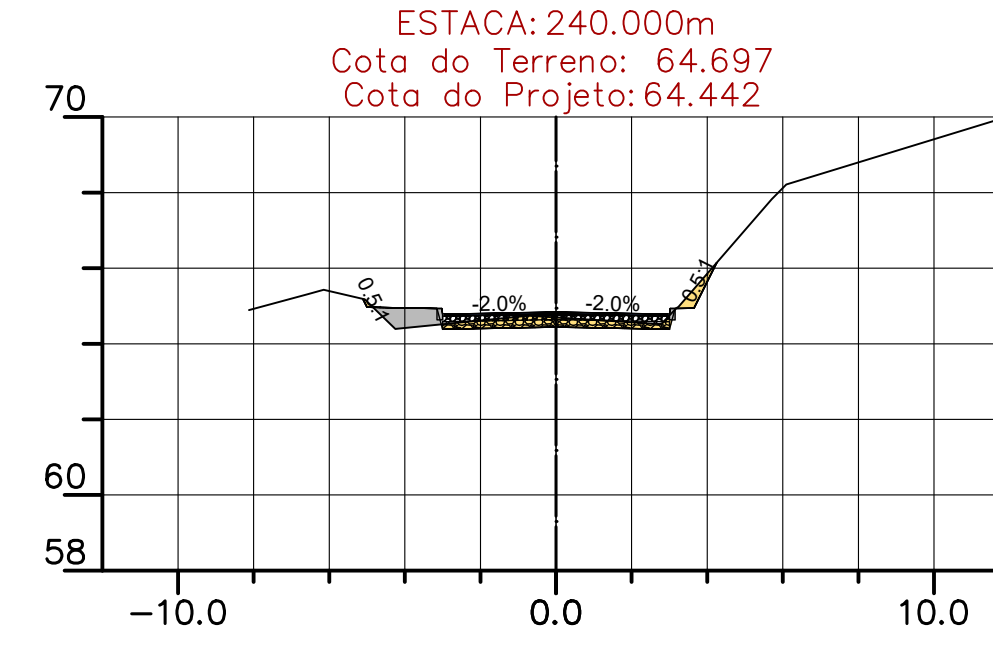
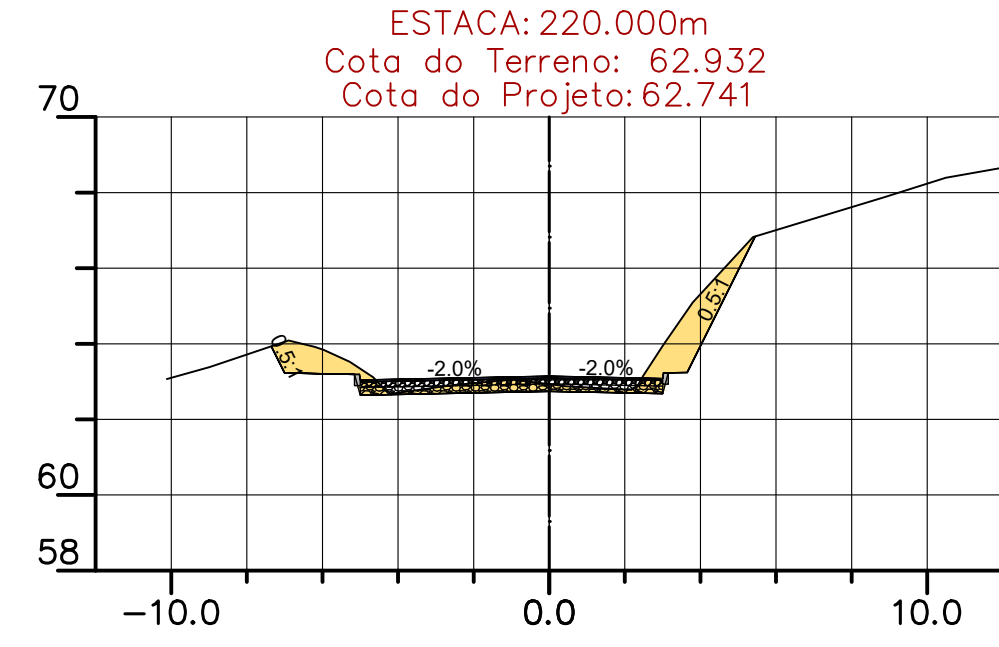
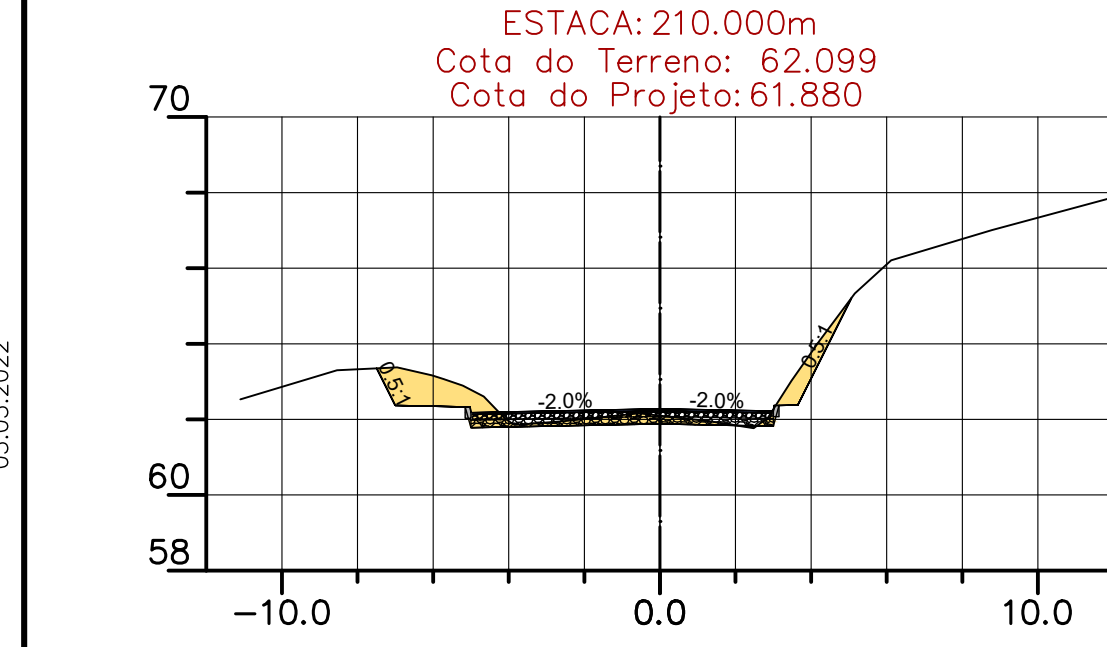
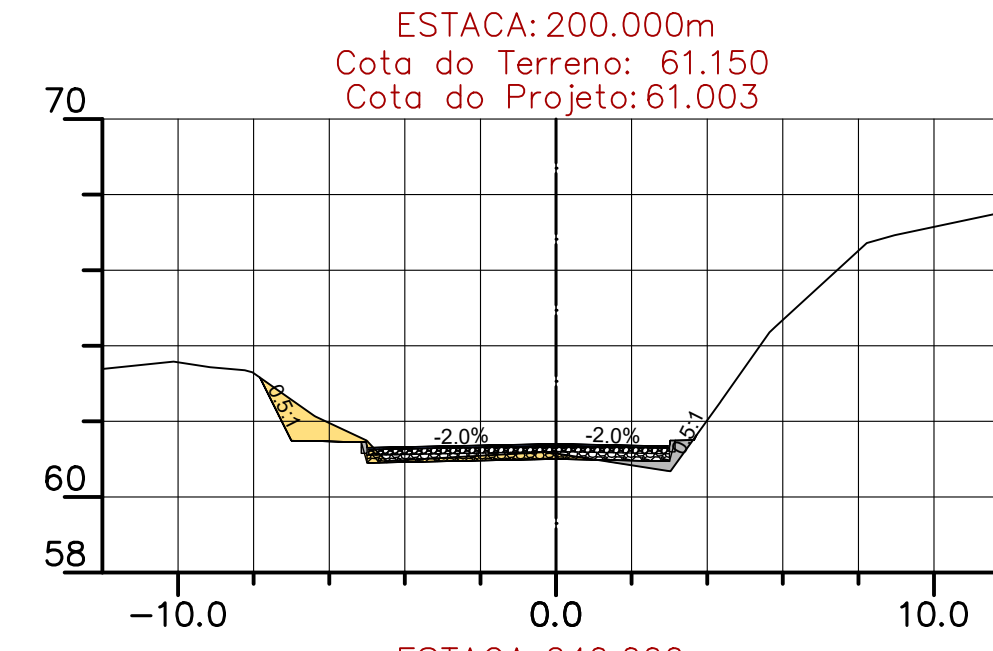
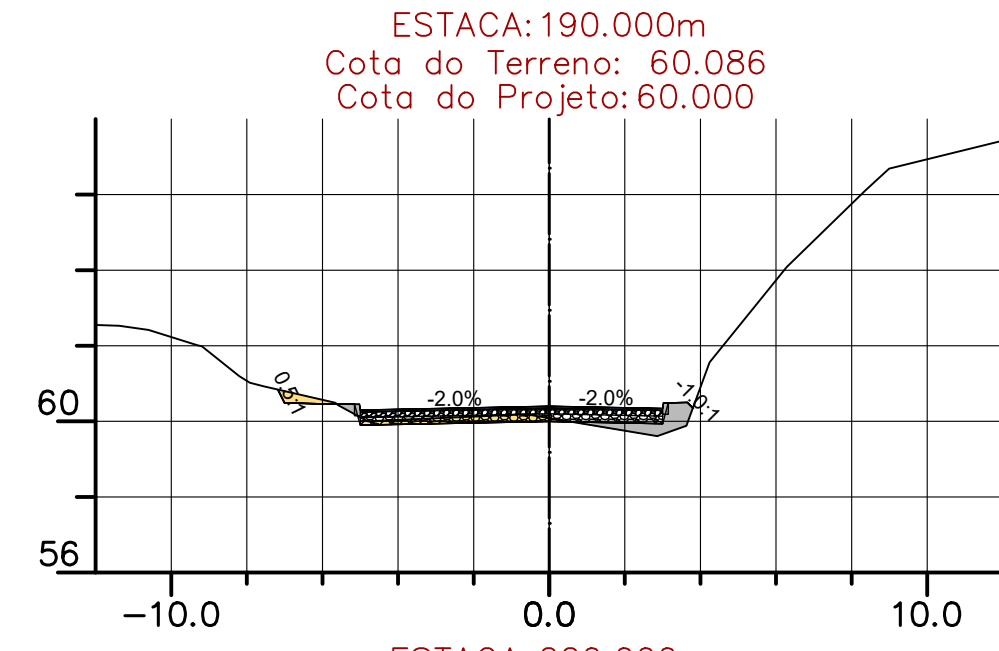
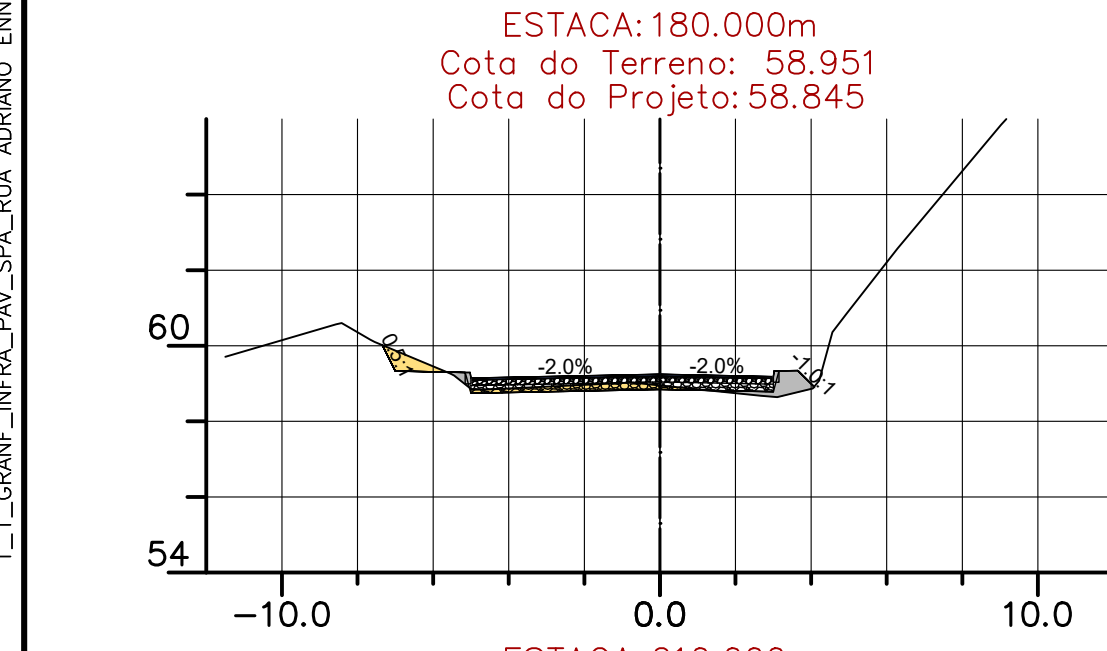
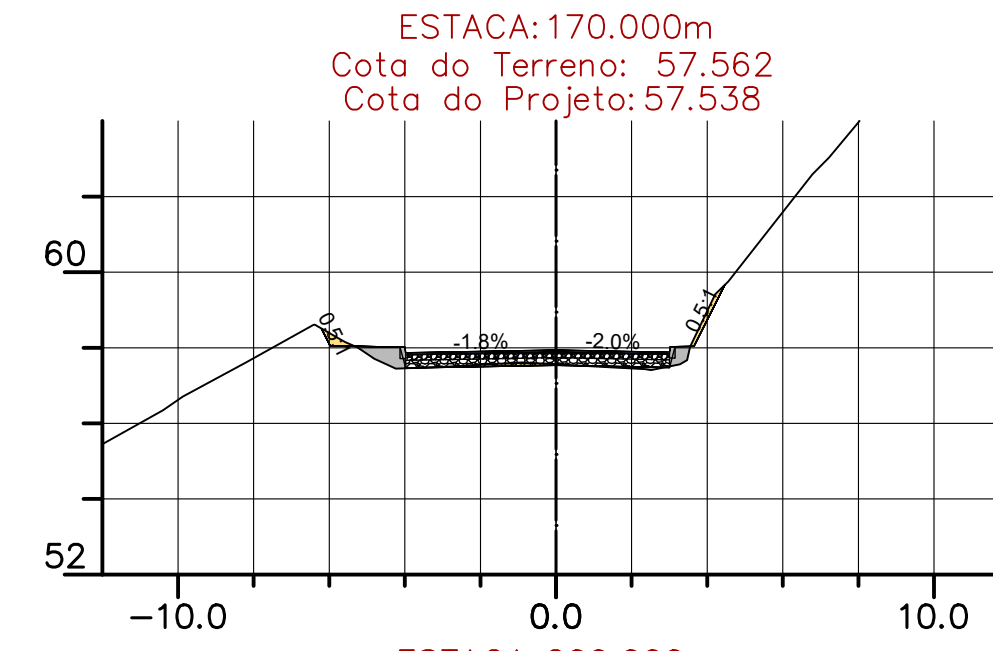
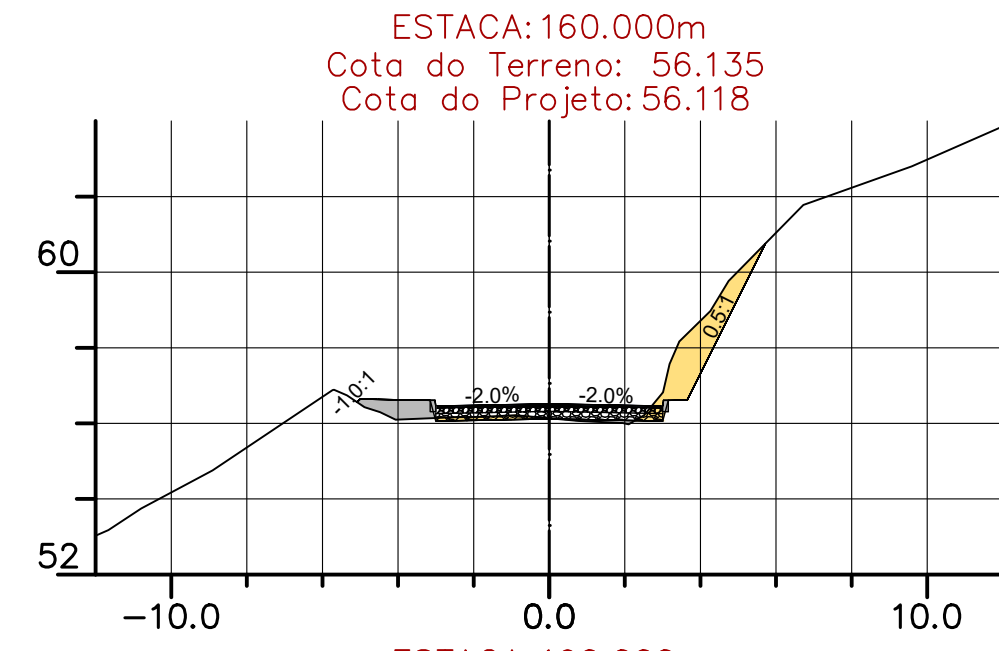
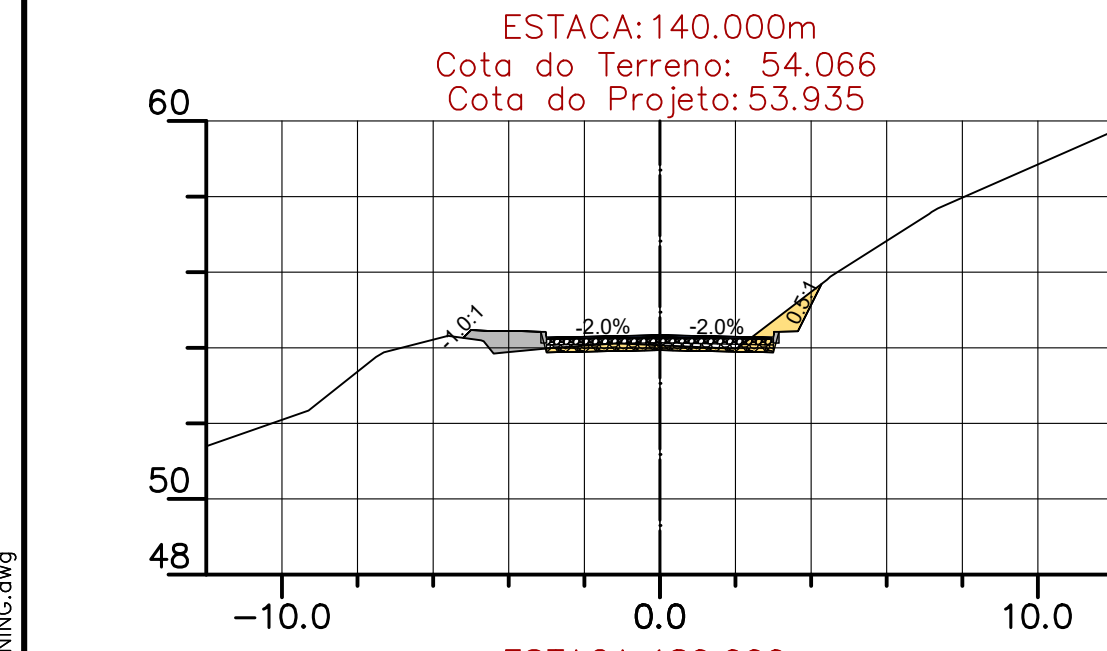
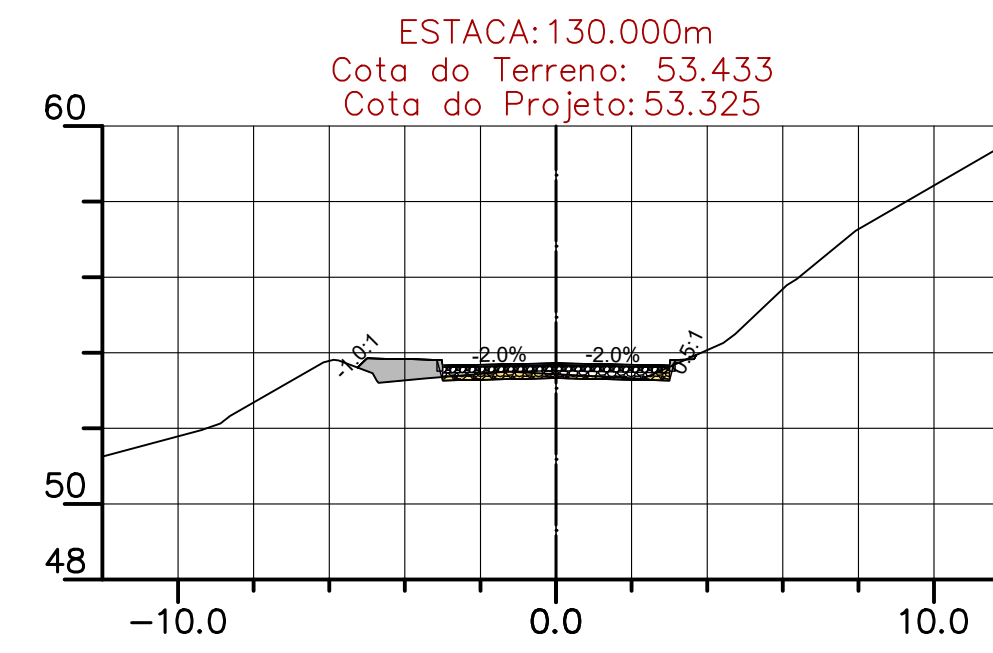
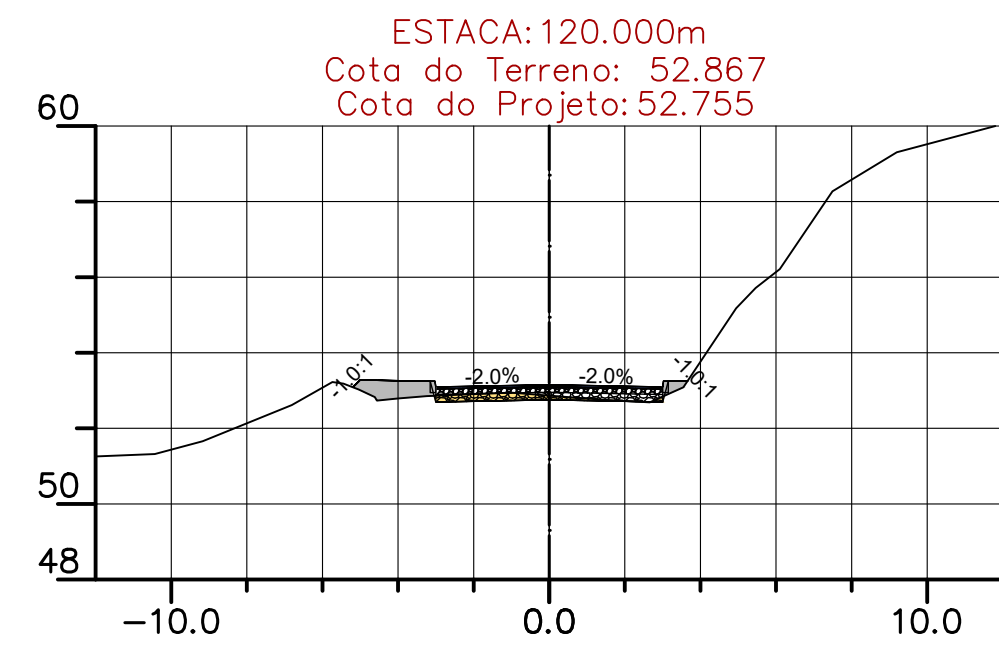
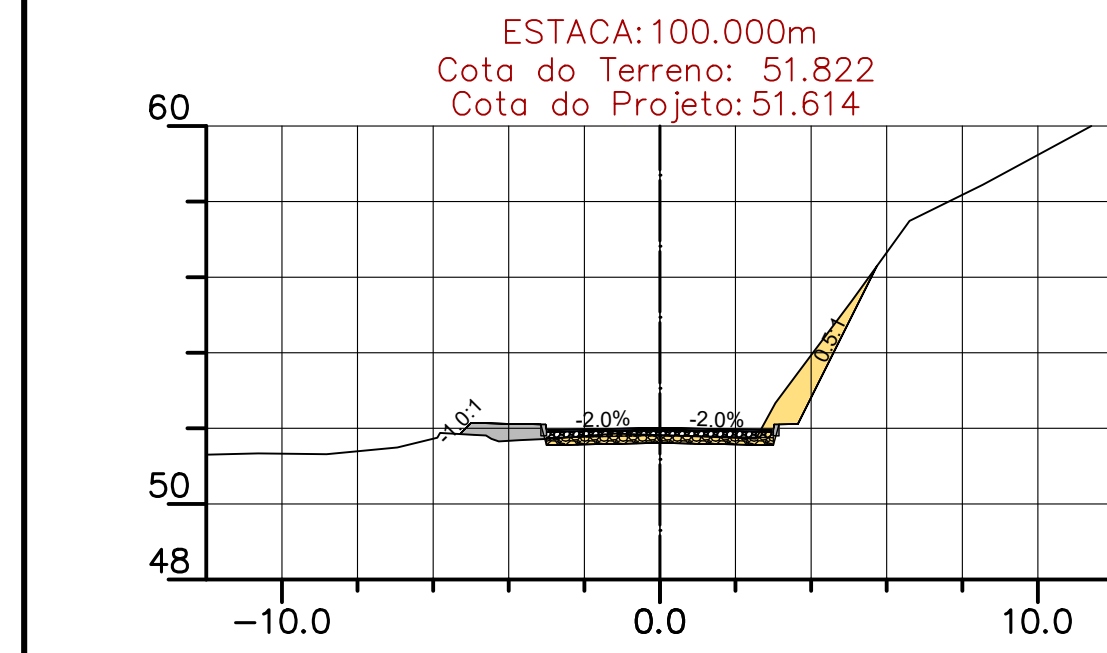
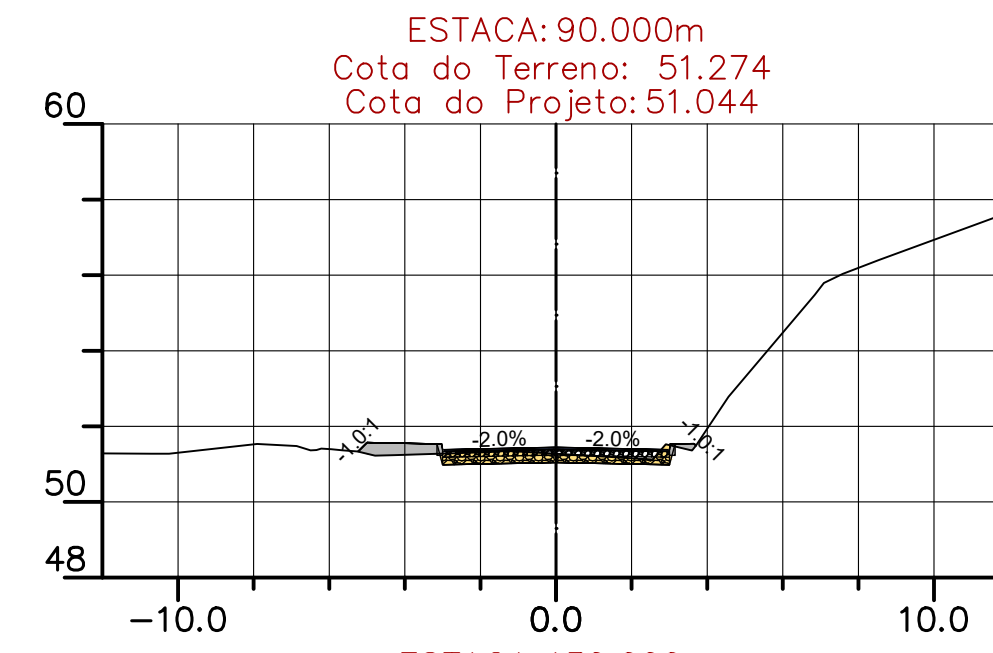
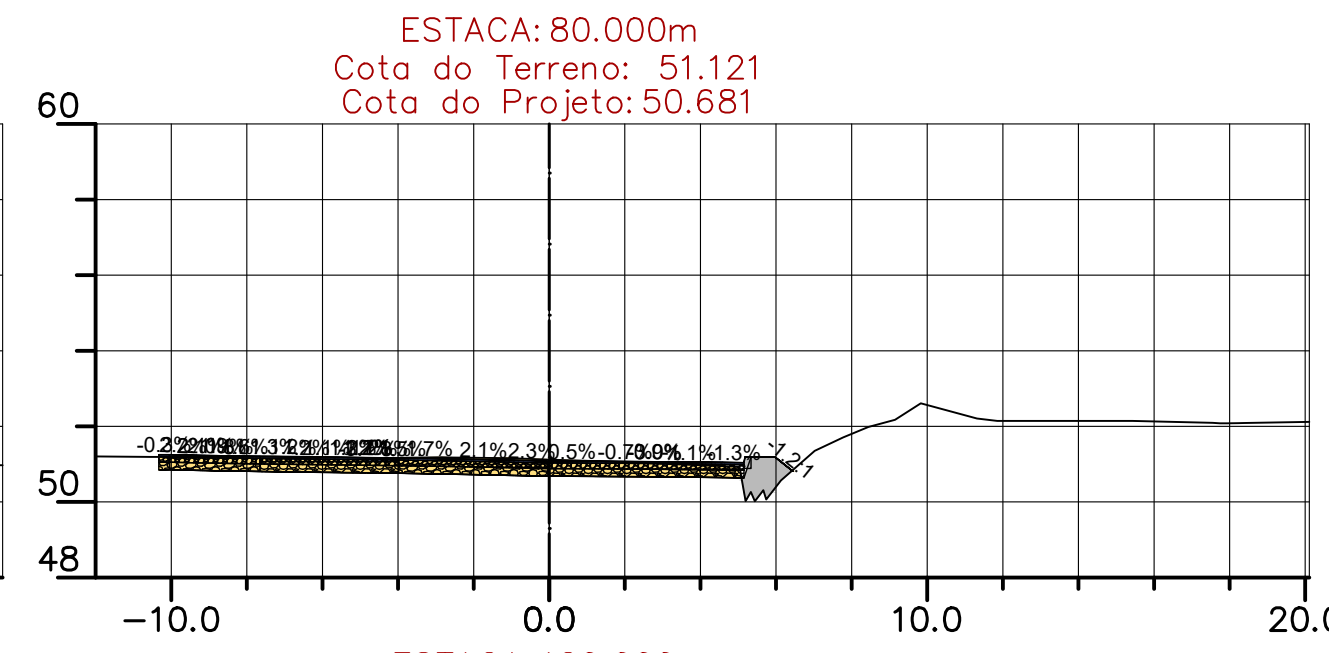
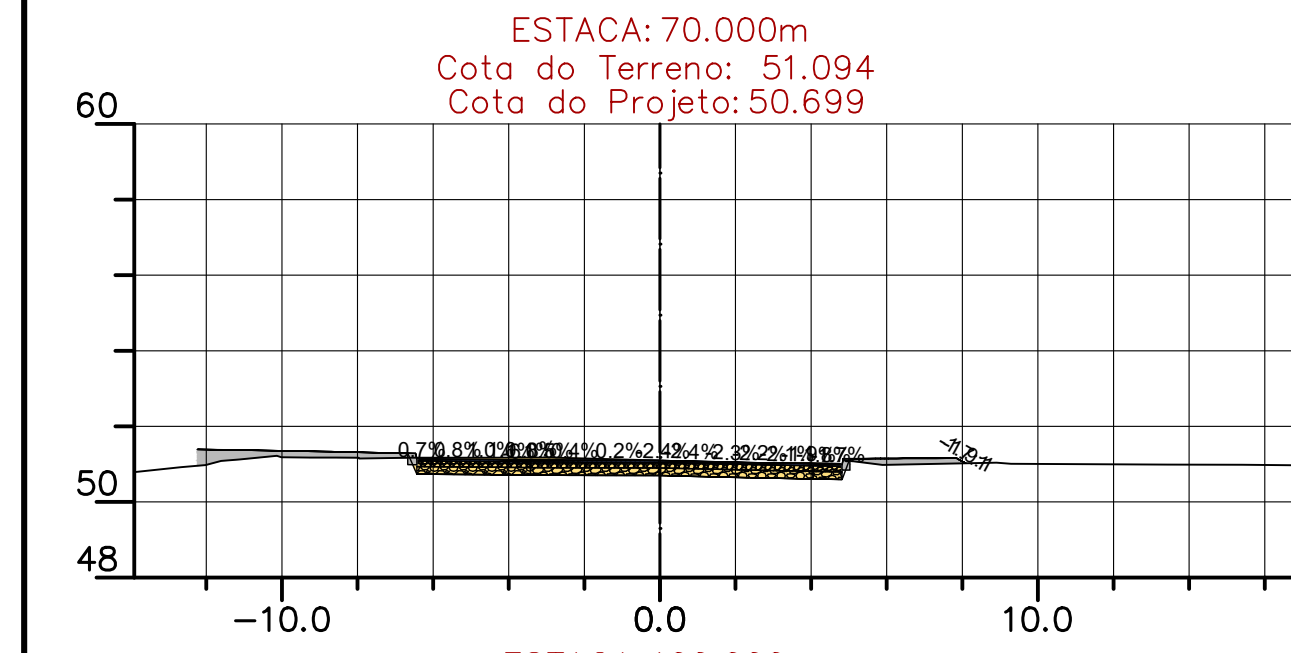
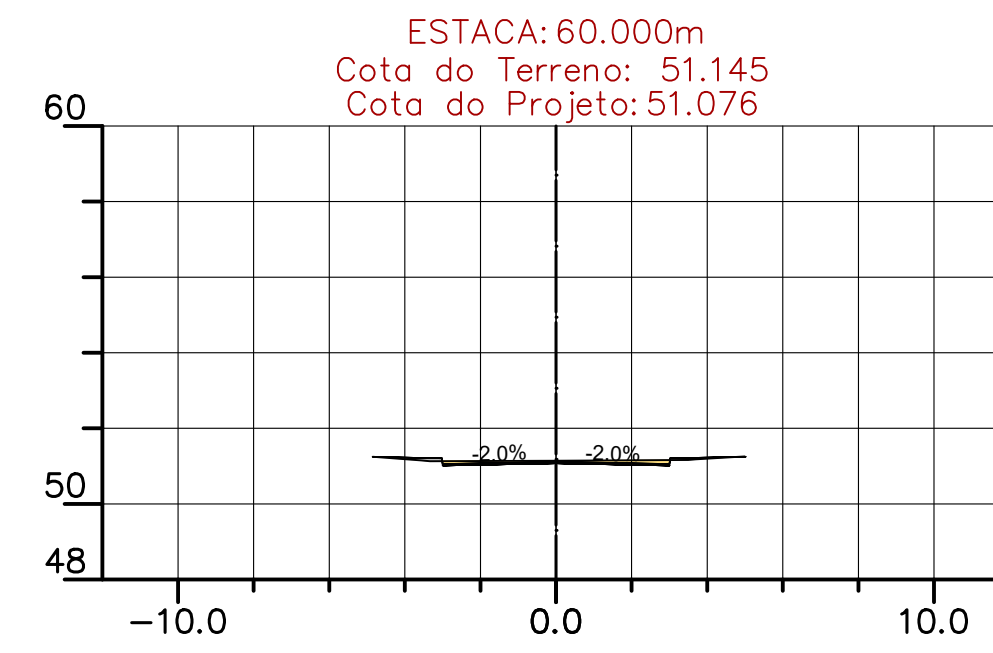
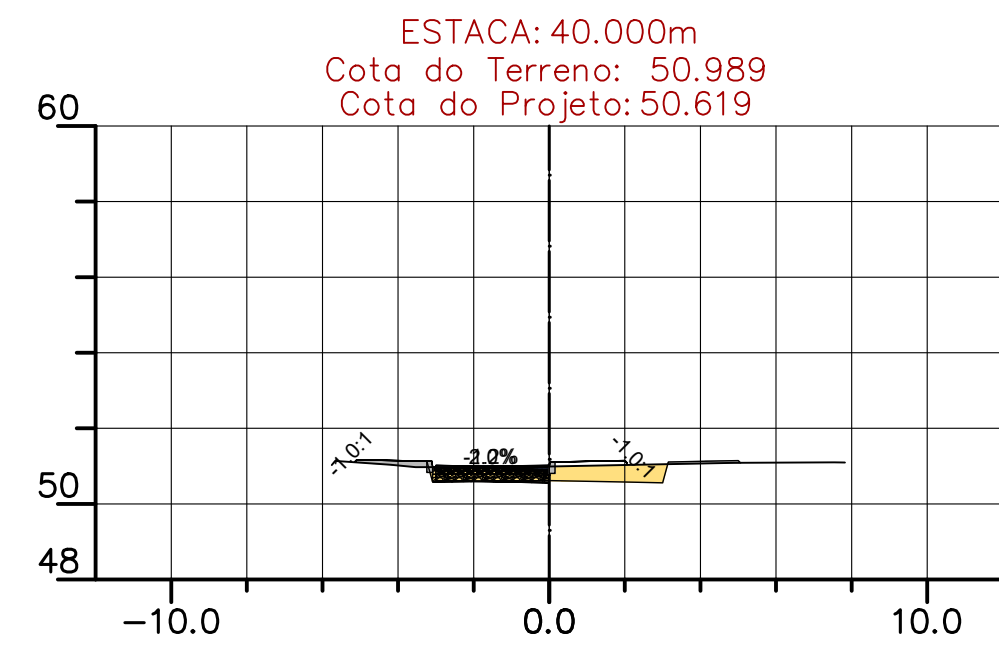
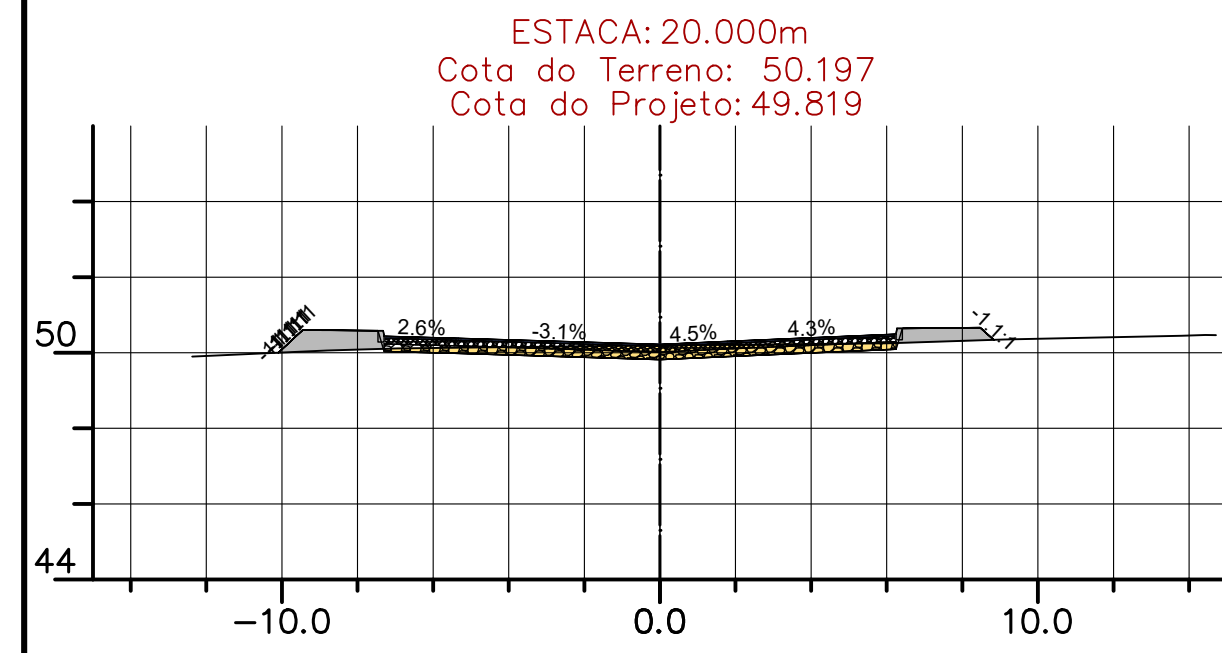
TABELA DE CURVAS DO ALINHAMENTO											
CURVAS	AC	R (m)	T (m)	D (m)	PC	PT	PONTO	PC	PI	PT	
Curva1	3°04'59.12"	200.000	5.382	10.762	1+17.443	2+8.205	N E	199970,5047 99989,5898	199965,2347 99988,4961	199959,9135 99987,8875	
Curva2	56°52'26.77"	18.206	9.859	18.072	3+4.192	4+2.264	N E	199944,1081 99985,2856	199934,3607 99983,8044	199927,7934 99991,1581	
Curva3	38°56'13.93"	22.582	7.983	15.346	4+2.264	4+17.610	N E	199927,7934 99991,1581	199922,4762 99997,1121	199922,0821 10005,0850	
Curva4	13°55'27.89"	73.019	8.917	17.746	6+8.947	7+6.693	N E	199920,5352 100036,3840	199920,0951 100045,2898	199921,8110 100054,0398	
Curva5	45°21'35.61"	26.853	11.222	21.259	8+9.656	9+10.915	N E	199926,2300 100067,5862	199928,3895 100076,5741	199922,0714 100096,8604	
Curva6	34°53'55.72"	32.873	10.333	20.023	9+13.761	10+13.784	N E	199920,4690 100107,7519	199914,6514 100124,9290	199904,9944 100111,4273	
Curva7	8°23'22.72"	200.000	14.669	29.285	11+17.073	13+6.359	N E	199883,2282 100119,7113	199869,5186 100124,9290	199855,1945 100128,0906	
Curva8	7°56'18.25"	200.000	13.877	27.710	13+14.634	15+2.344	N E	199847,1134 100128,8742	199833,5622 100142,9922	199819,7278 100133,9960	
Curva9	24°35'47.21"	100.817	21.978	43.279	19+3.877	21+7.157	N E	199738,4473 100140,3646	199716,5370 100142,9922	199697,3338 100152,7826	
Curva10	9°44'38.79"	38.037	3.242	6.489	22+18.044	23+4.513	N E	199670,3462 100167,8066	199667,5133 100169,3537	199664,4544 100170,4585	
Curva11	28°01'45.41"	63.936	15.958	31.277	23+9.472	25+0.749	N E	199659,7761 100172,1024	199644,7202 100177,3928	199628,9443 100174,9875	
Curva12	7°53'49.22"	81.034	5.593	11.169	25+7.079	25+18.248	N E	199622,6871 100174,0335	199617,1577 100173,1905	199611,7966 100171,5958	
Curva13	6°33'28.81"	200.000	11.458	22.892	27+11.594	28+14.486	N E	199579,8346 100162,0883	199568,8518 100158,8214	199557,5678 100156,8301	
Curva14	4°56'42.33"	200.000	8.636	17.262	28+18.673	29+15.934	N E	199553,4445 100156,1025	199544,9397 100154,6017	199536,5960 100152,3734	
Curva15	13°59'11.91"	119.880	14.705	29.264	30+18.313	32+7.577	N E	199514,9749 100146,5991	199500,7676 100142,8048	199486,0645 100142,5569	
Curva16	36°19'05.84"	86.372	28.329	54.749	32+12.505	35+7.253	N E	199481,1379 100142,4738	199452,8127 100141,9961	199429,7070 100158,3874	
Curva17	20°07'48.91"	87.834	15.591	30.860	35+16.280	37+7.140	N E	199422,3446 100163,6103	199409,6288 100172,6310	199400,7942 100185,4769	
Curva18	12°21'21.14"	66.879	7.239	14.423	38+15.325	39+9.747	N E	199384,8229 100214,6649	199380,7206 100219,6138	199375,4370 100219,6138	
Curva19	15°32'13.82"	112.909	15.404	30.618	39+12.971	41+3.589	N E	199373,0842 100221,8176	199361,8420 100232,3476	199348,1900 100239,4814	
Curva20	5°16'18.87"	200.000	9.208	18.402	41+4.949	42+3.351	N E	199346,9849 100240,1112	199338,8242 100244,3756	199330,3062 100247,8721	
Curva21	14°59'34.81"	63.523	8.359	16.623	42+4.620	43+1.243	N E	199329,1326 100240,1112	199321,3997 100251,5281	199313,1088 100252,5938	
Curva22	5°24'07.89"	200.000	9.436	18.857	43+14.862	44+13.719	N E	199299,6004 100254,3301	199290,2418 100255,5330	199280,8115 100255,8495	
Curva23	2°33'33.35"	200.000	4.468	8.934	46+10.707	46+10.707	N E	199252,7735 100256,7905	199248,3085 100256,9404	199243,8546 100257,2894	
Curva24	20°46'04.42"	45.041	8.254	16.326	48+1.323	48+17.649	N E	199213,3322 100259,6817	199205,1038 100260,3266	199197,6388 100263,8473	
Curva25	3°24'58.69"	200.000	5.964	11.925	49+13.535	50+5.460	N E	199183,2704 100270,6236	199177,8759 100273,1678	199172,3394 100275,3859	
Curva26	13°00'00.10"	151.416	17.252	34.355	51+6.559	53+0.014	N E	199153,5893 100282,8980	199137,5750 100289,3140	199120,5279 100291,9631	
Curva27	20°03'06.37"	45.376	8.022	15.880	53+6.708	54+2.588	N E	199113,9140 100292,9909	199105,9870 100294,2227	199098,1182 100292,6620	
Curva28	19°00'58.36"	132.605	22.210	44.011	54+18.362	57+2.373	N E	199082,6452 100289,5930	199068,8599 100285,2720	199041,6714 100274,0884	
Curva29	4°55'10.05"	200.000	8.591	17.172	57+17.572	58+14.744	N E	199028,5403 100266,4352	199021,1176 100262,1091	199014,0933 100257,1623	
Curva30	9°06'13.69"	200.000	15.923	31.778	59+3.487	60+15.266	N E	199006,9446 100252,1280	188993,9262 100242,9600	188982,5224 100231,8477	

VOLUME TOTAL							
Estaca	Área de Corte (m²)	Área de Aterro (m²)	Volume de Corte (m³)	Volume de Aterro (m³)	Vol. Cort. Acum. (m³)	Vol. Aterro Acum. (m³)	Volume Líquido (m³)
0+0,61	0,51	0,00	0,00	0,00	0,00	0,00	0,00
1+0,00	3,31	2,08	36,95	20,18	36,95	20,18	16,77
2+0,00	2,51	0,33	58,13	24,13	95,08	44,30	50,77
3+0,00	0,59	0,13	31,02	4,63	126,09	48,93	77,16
3+10,00	4,79	1,50	26,16	6,87	152,25	55,80	96,45
4+0,00	6,03	0,97	48,28	11,64	200,53	67,44	133,09
4+10,00	1,57	0,67	34,11	8,96	234,64	76,40	158,24
5+0,00	3,46	0,81	26,53	6,46	261,17	82,86	178,31
6+0,00	0,69	0,99	41,50	17,93	302,68	100,80	201,88
6+10,00	0,78	1,08	7,38	10,35	310,06	111,15	198,91
7+0,00	1,77	0,91	12,99	9,45	323,05	120,59	202,45
8+0,00	3,17	0,90	50,07	17,86	373,12	138,45	234,67
8+10,00	0,48	0,70	18,22	8,02	391,34	146,47	244,87
9+0,00	1,23	0,71	9,47	6,99	400,81	153,46	247,35
9+10,00	1,04	0,96	12,89	7,67	413,69	161,13	252,57
10+0,00	2,27	0,47	18,26	6,79	431,95	167,92	264,03
10+10,00	4,43	0,02	37,02	2,25	468,97	170,17	298,80
11+0,00	5,71	0,00	51,38	0,08	520,35	170,25	350,10
12+0,00	1,63	0,74	73,35	7,37	593,70	177,62	416,08
12+10,00	0,82	0,87	12,21	8,19	605,92	185,82	420,10
13+0,00	0,32	0,94	5,68	9,20	611,60	195,02	416,58
14+0,00	0,01	1,53	3,31	24,86	614,90	219,88	395,03
14+10,00	0,16	1,19	0,85	13,68	615,76	233,56	382,20
15+0,00	0,84	0,84	4,97	10,19	620,73	243,74	376,99
16+0,00	1,33	0,92	21,69	17,59	642,42	261,33	381,08
17+0,00	1,46	0,90	27,87	18,28	670,29	279,61	390,68
18+0,00	1,36	0,88	28,12	17,79	698,40	297,40	401,00
19+0,00	0,88	0,84	22,32	17,16	720,72	314,56	406,17
19+10,00	0,53	0,98	7,02	8,98	727,74	323,54	404,20
20+0,00	0,46	1,29	4,99	11,15			

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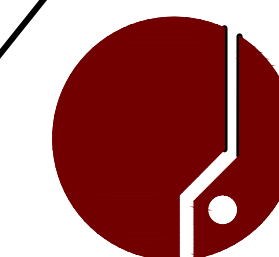


PROJETO GEOMÉTRICO

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO
PROJETO	SEÇÕES DE TERRAPLANAGEM
	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	07/11

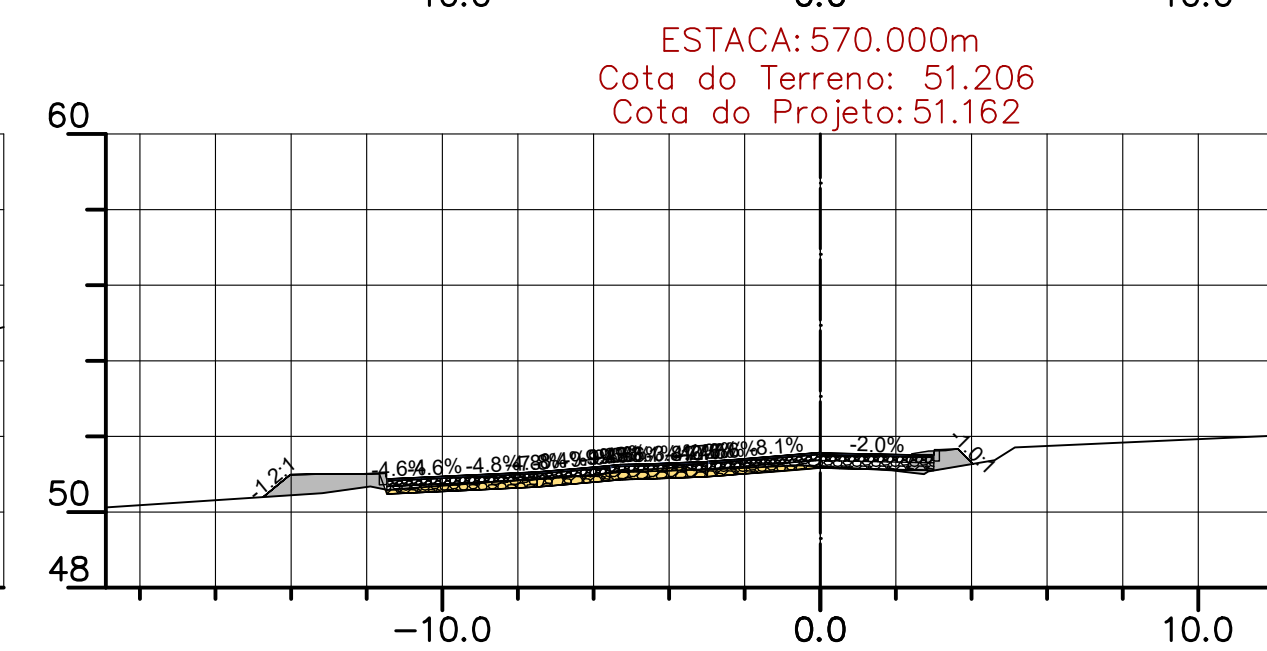
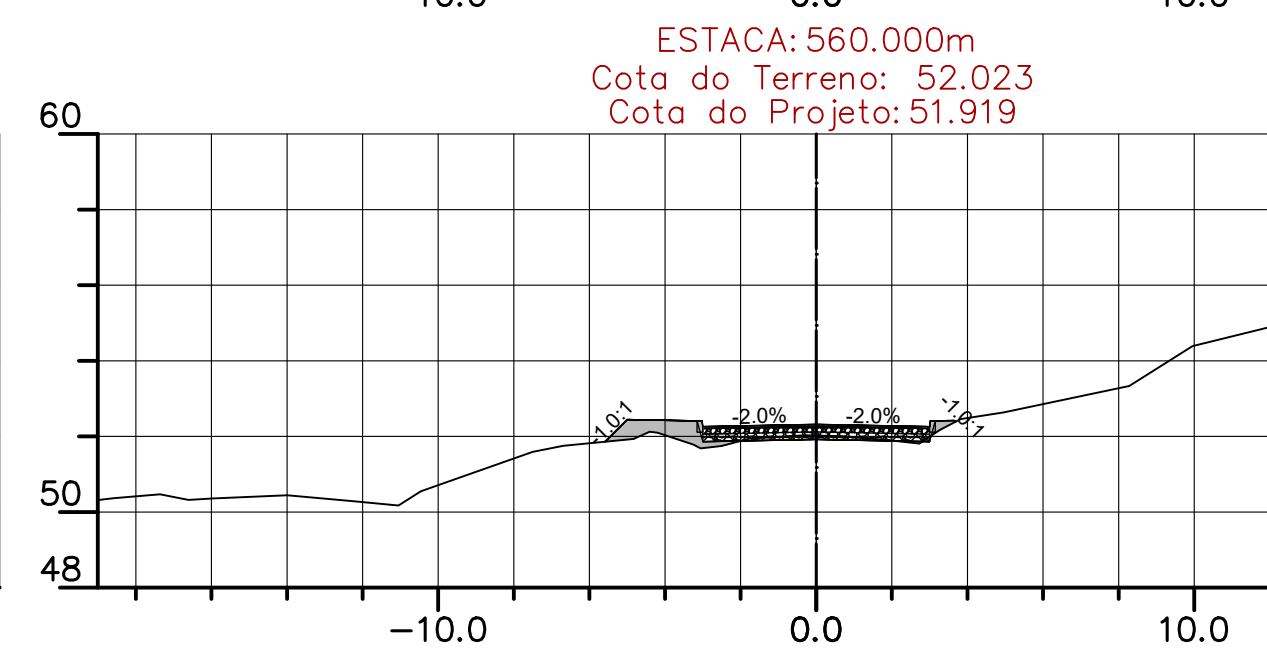
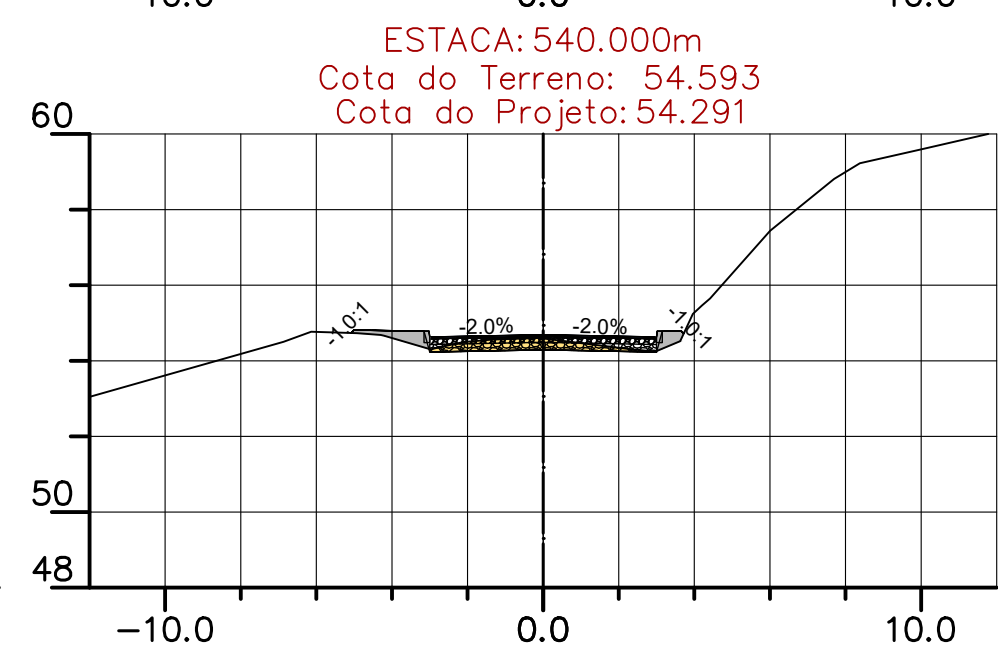
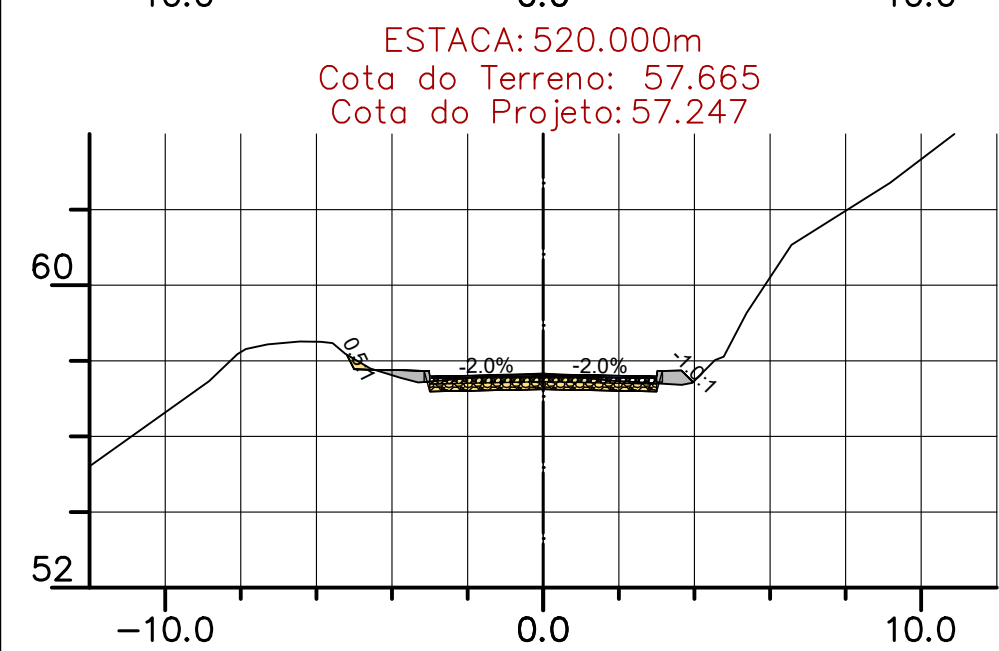
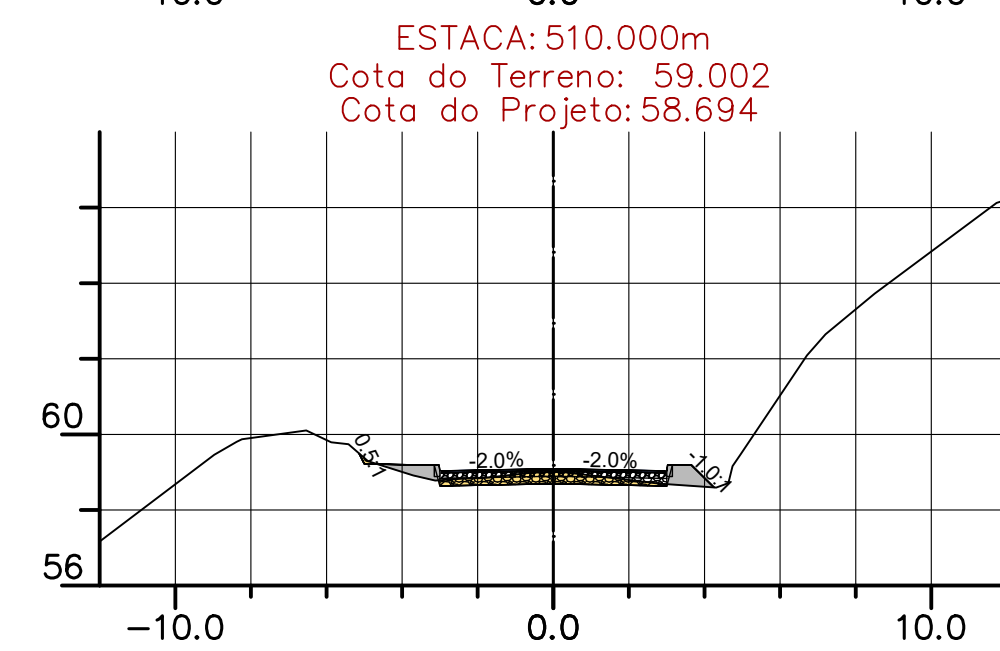
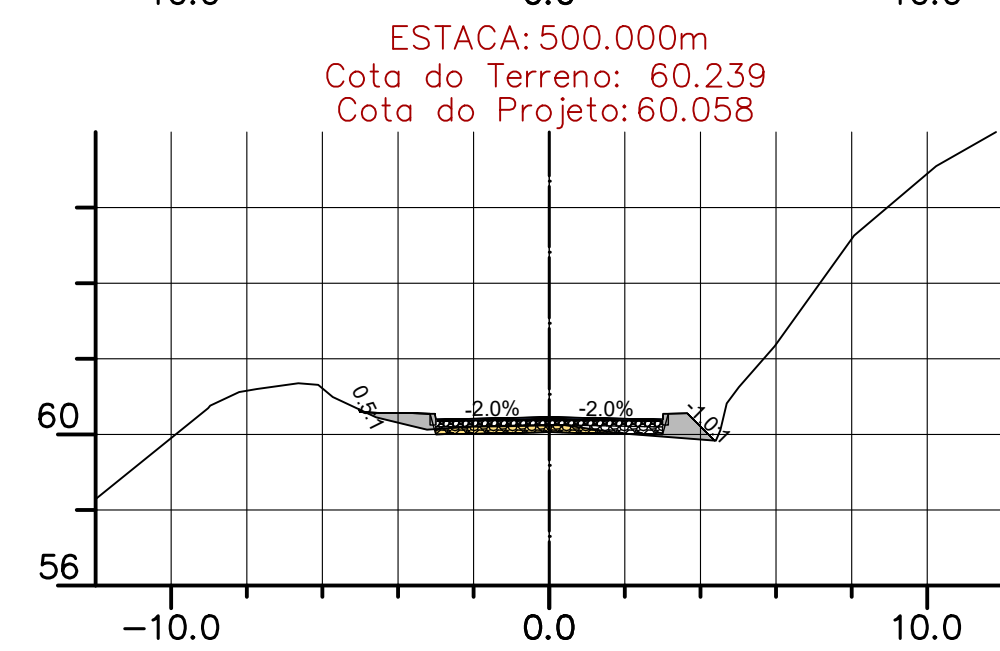
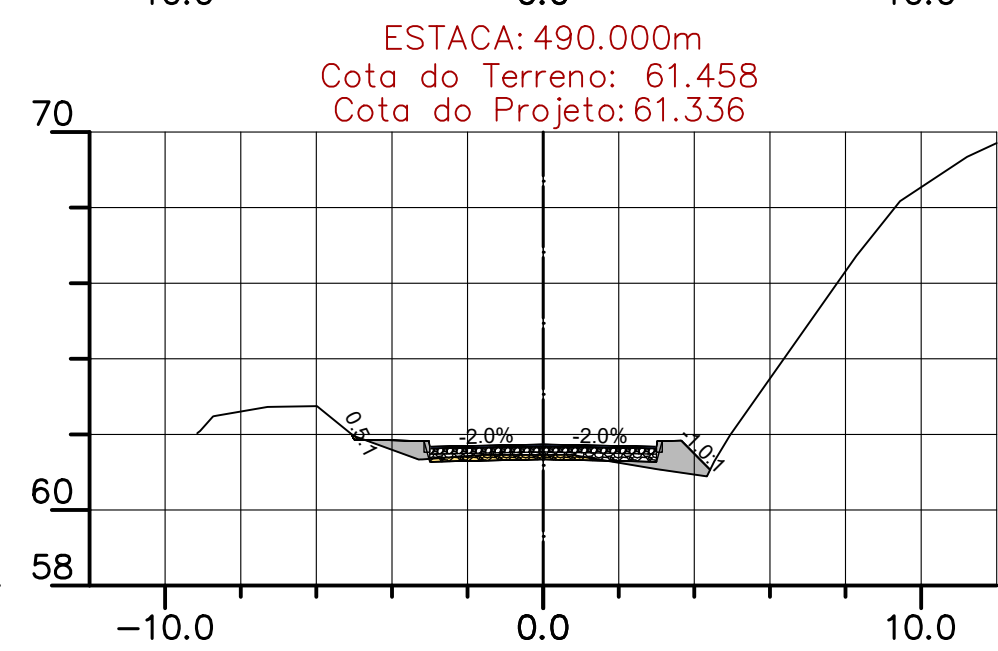
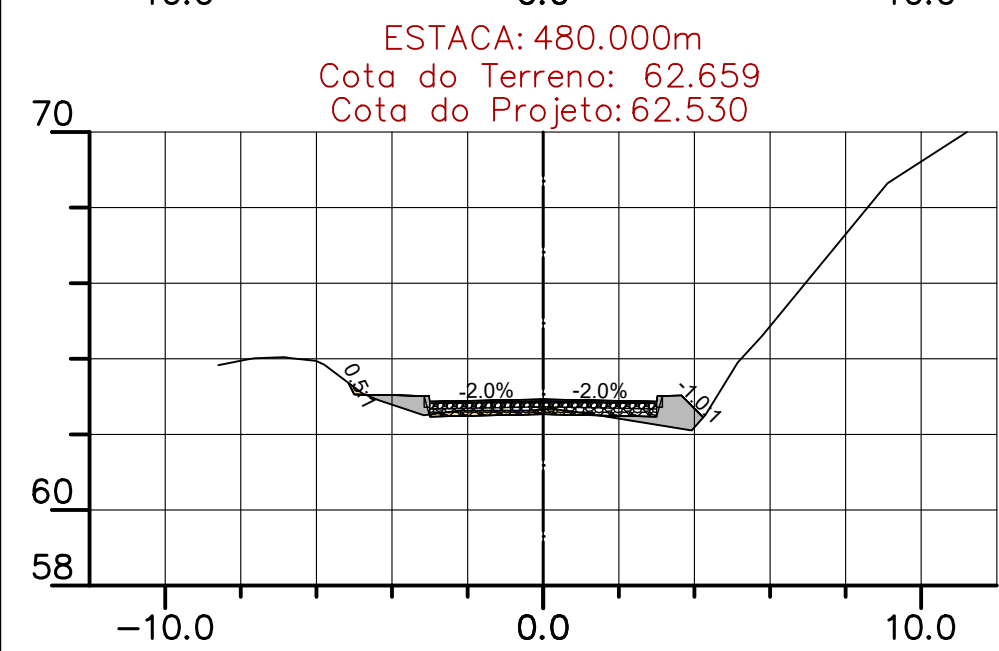
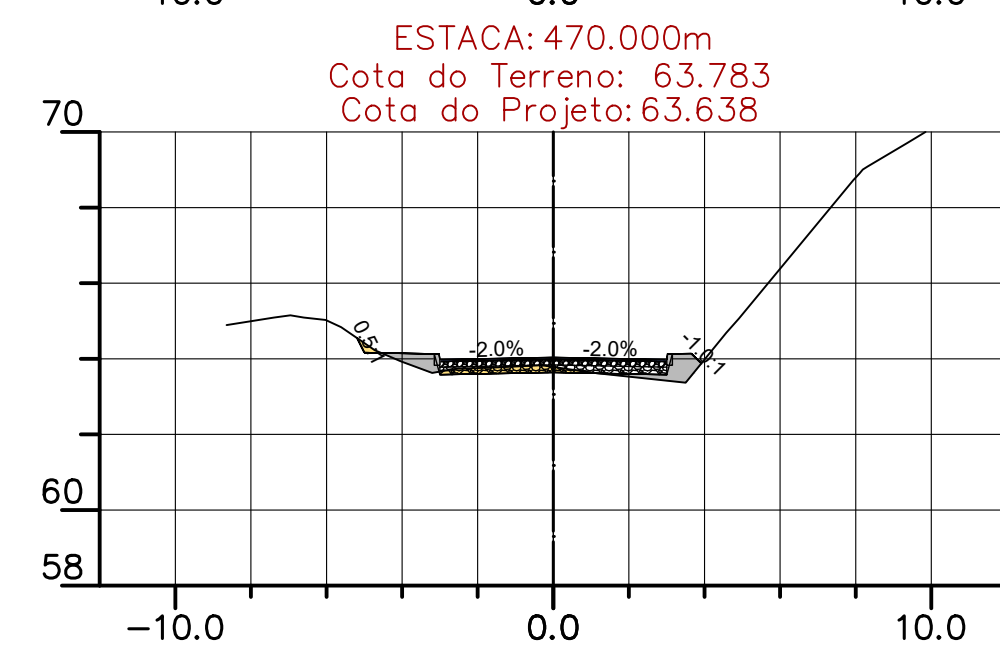
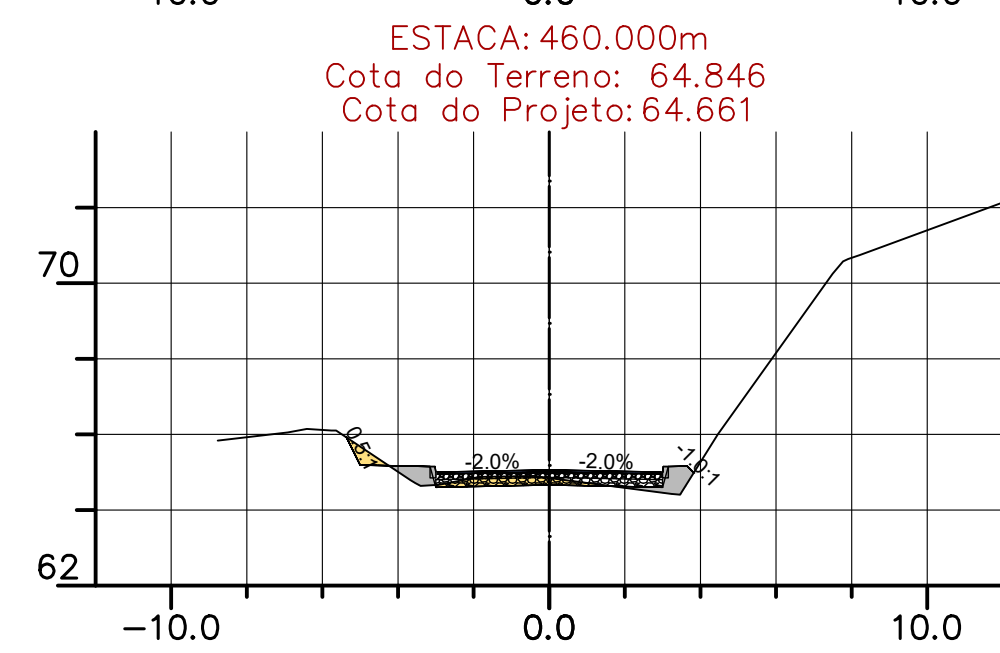
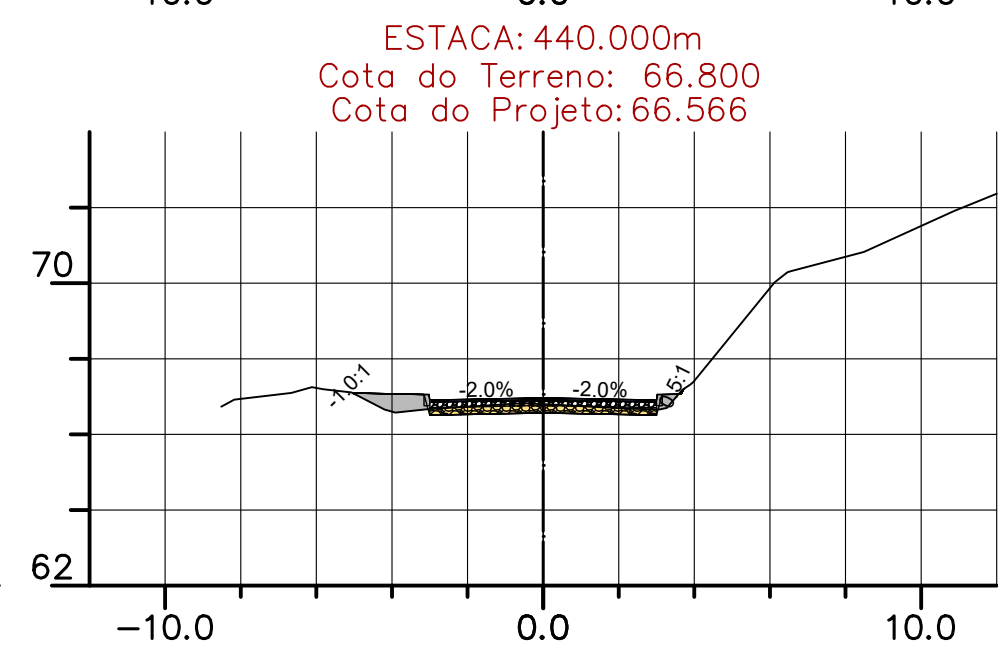
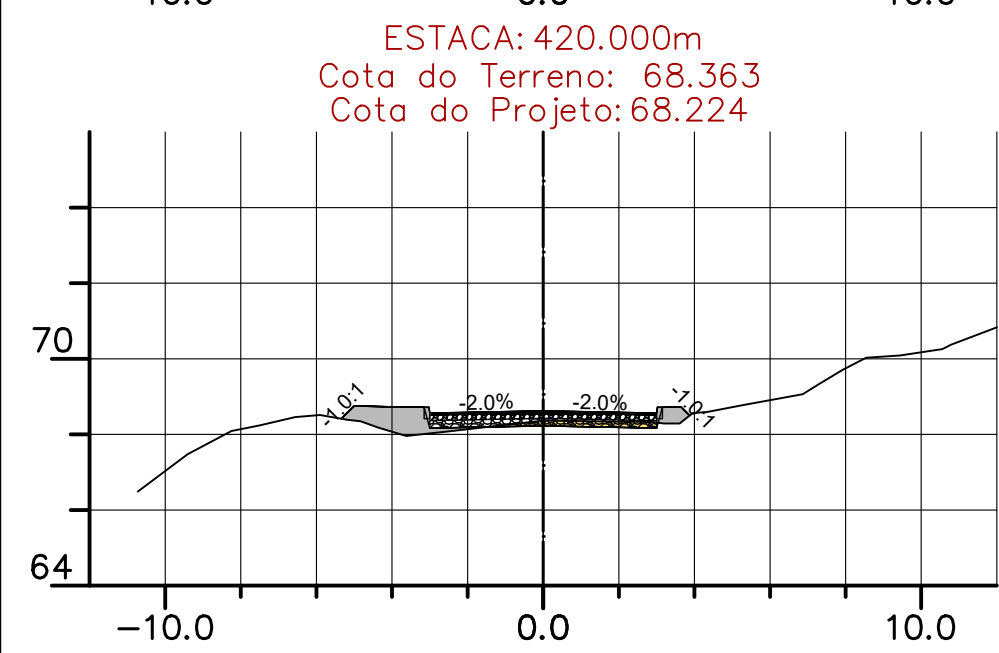
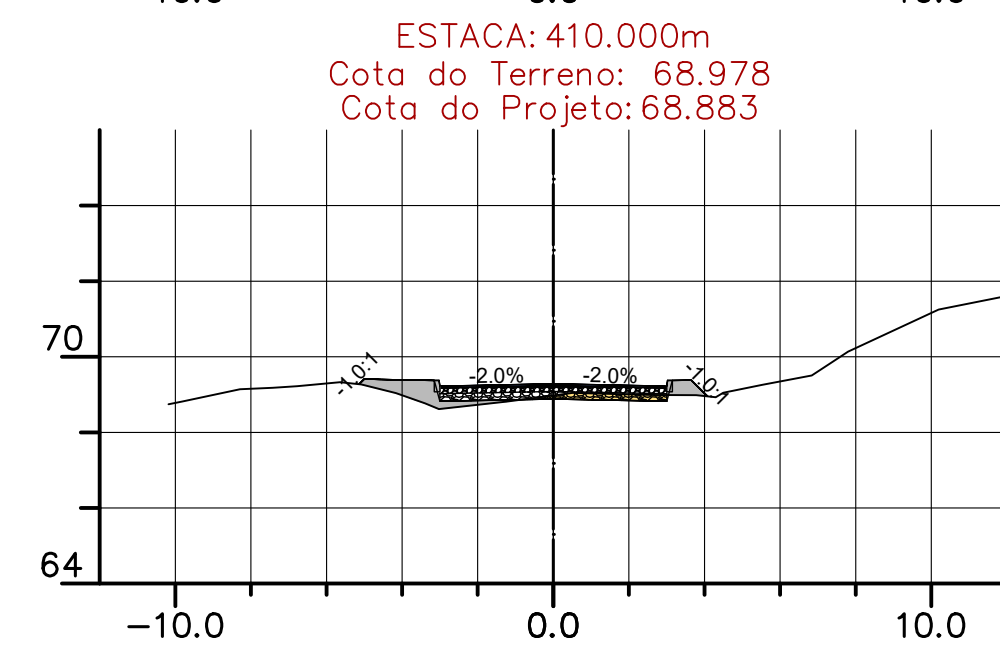
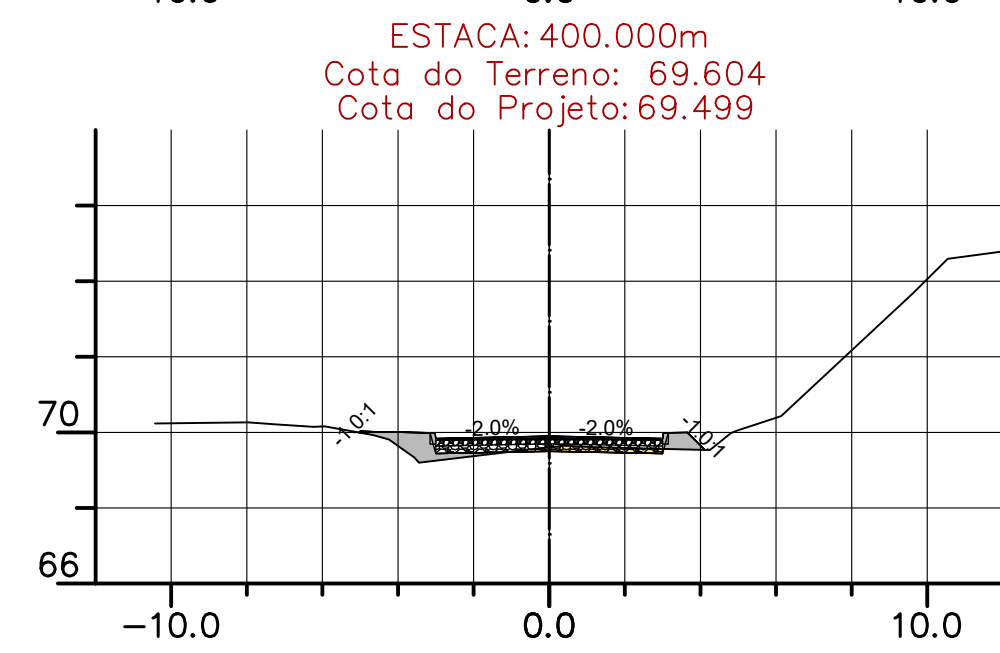
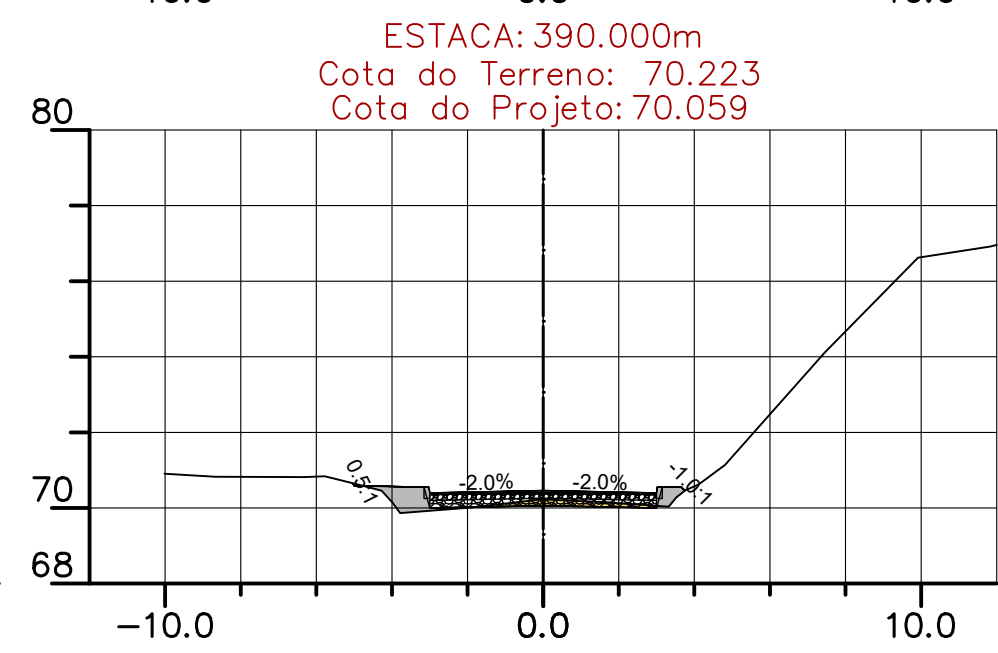
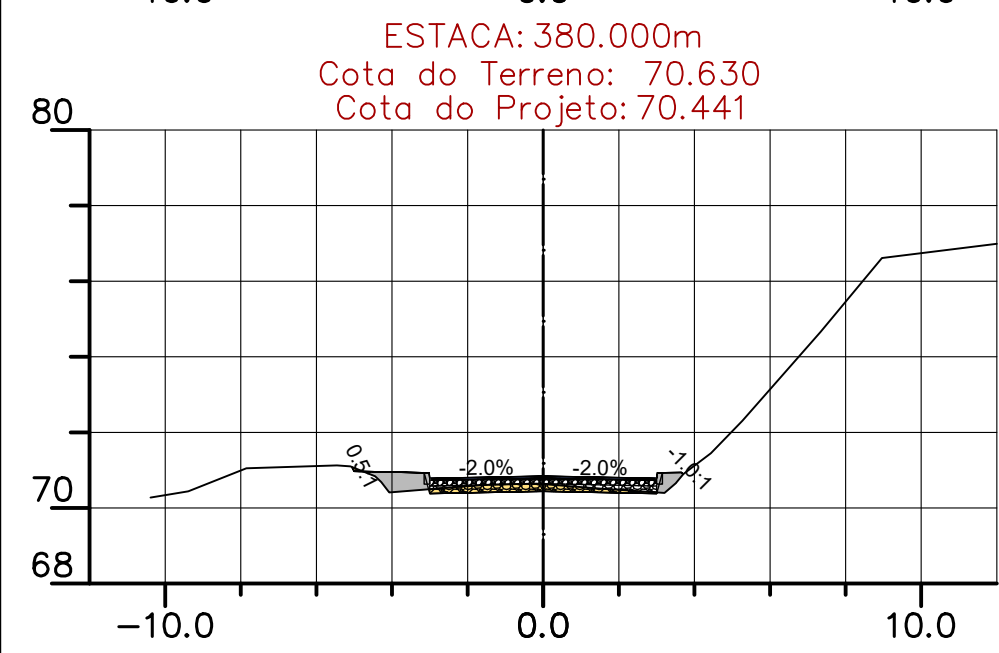
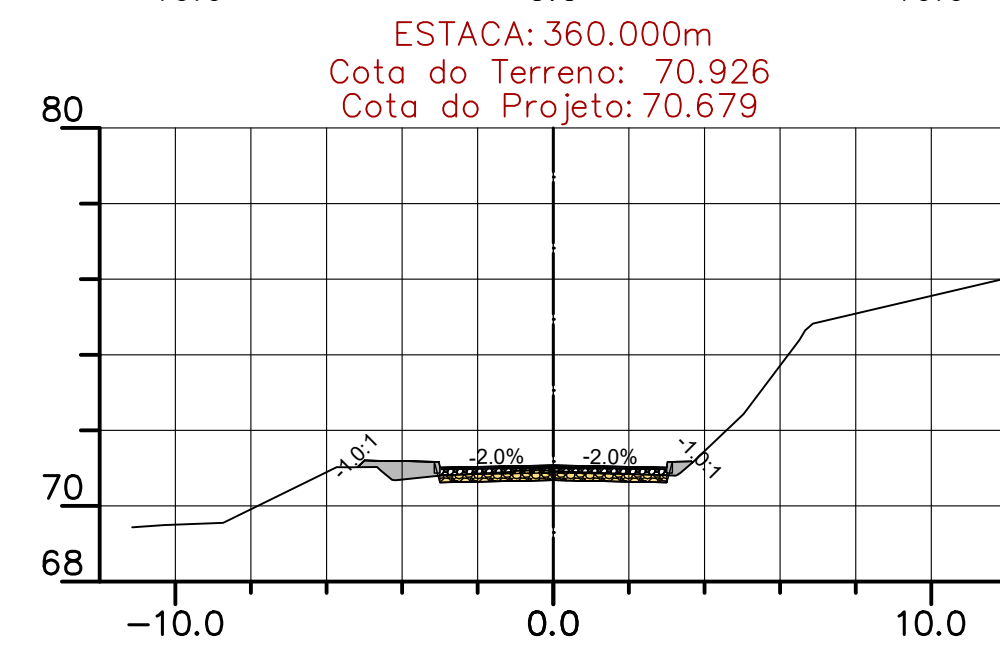
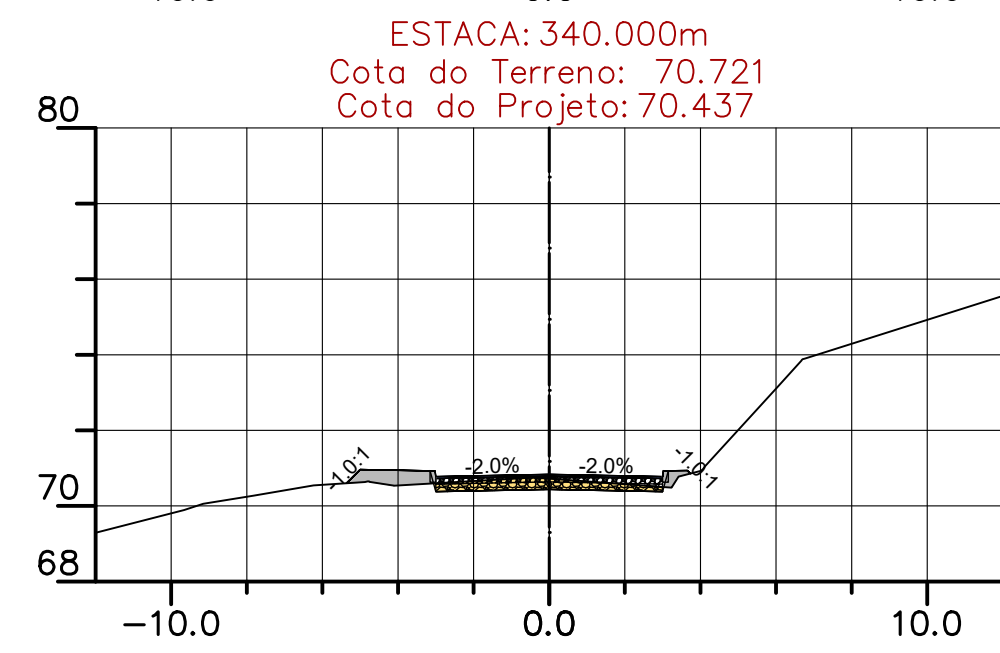
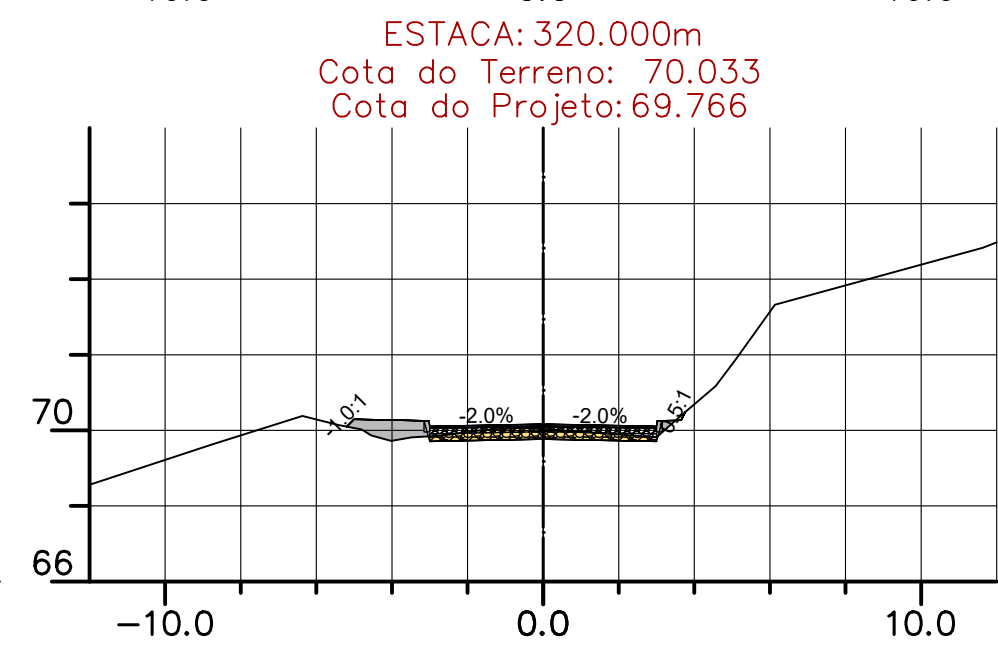
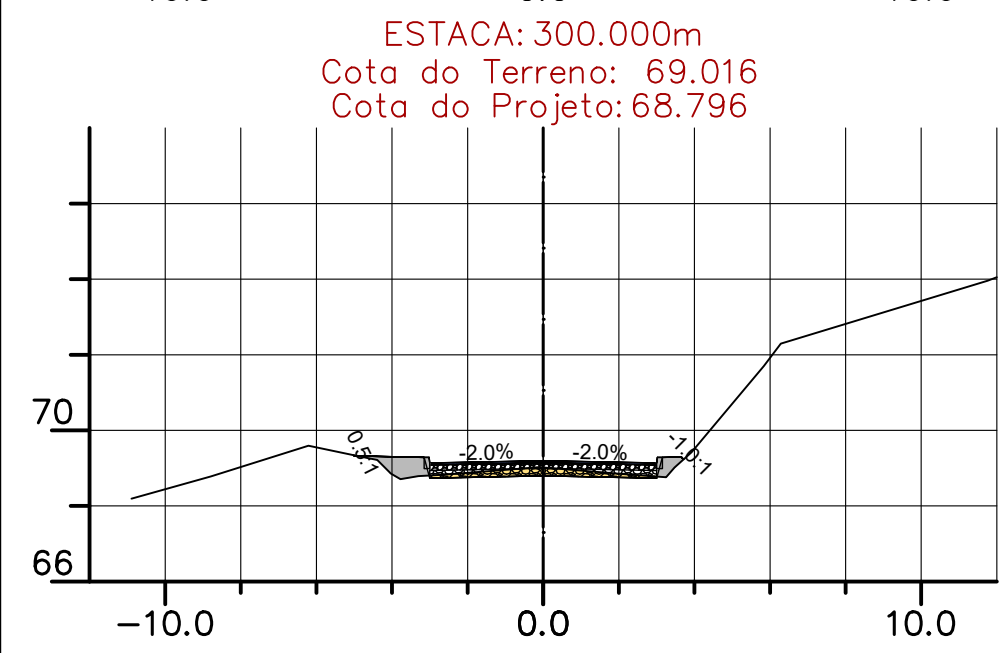
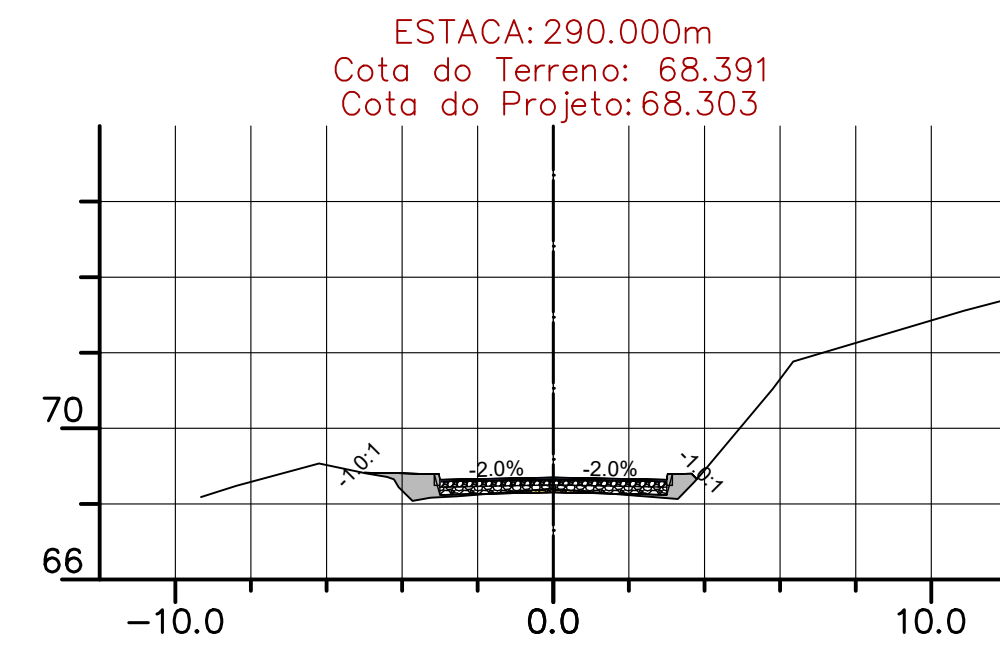
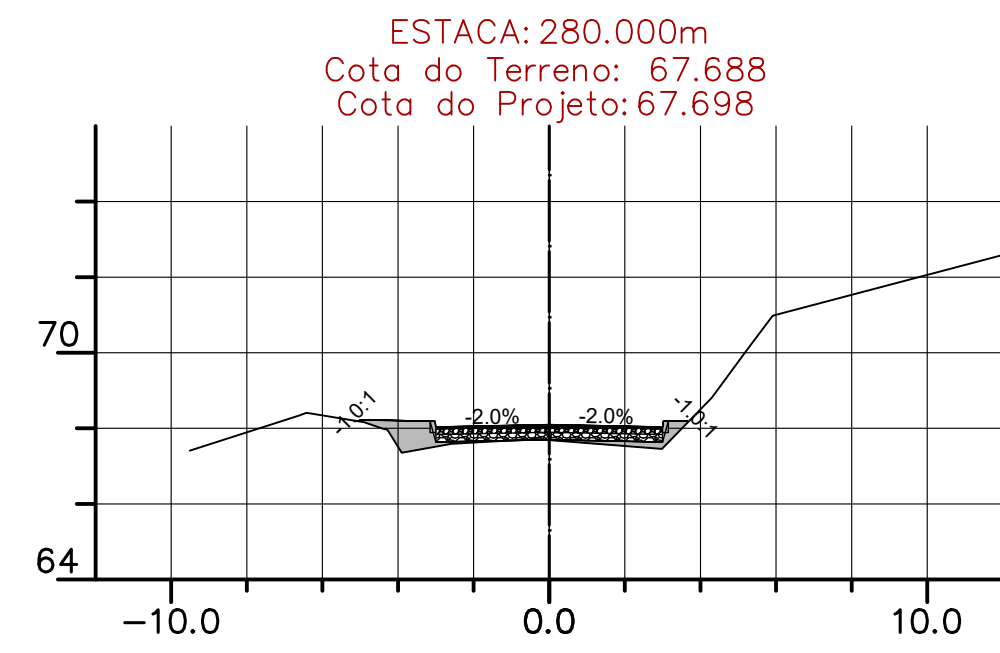
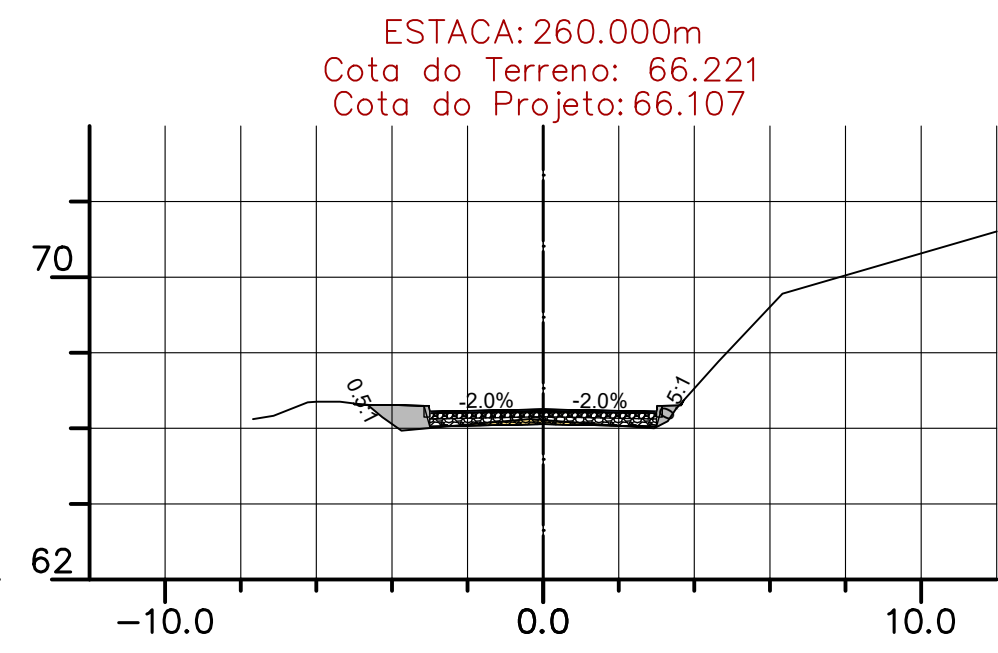
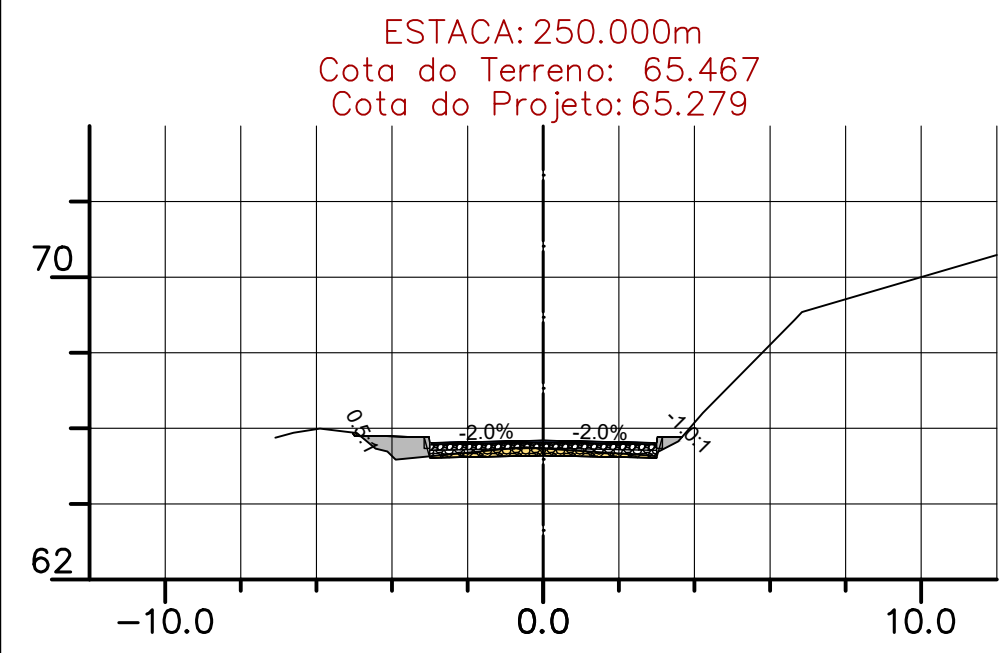


ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA

1_L_GBRNF_INFRA_PAV_SPA_RUA_ADRIANO_ENNING.dwg

05.03.2022

GRANFOLIS

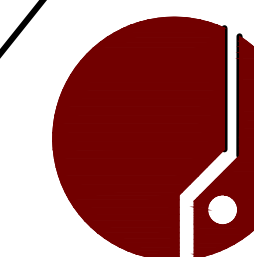


PROJETO GEOMÉTRICO

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO
PROJETO	SEÇÕES TRANSVERSAIS DE TERRAPLANAGEM
	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	08/11

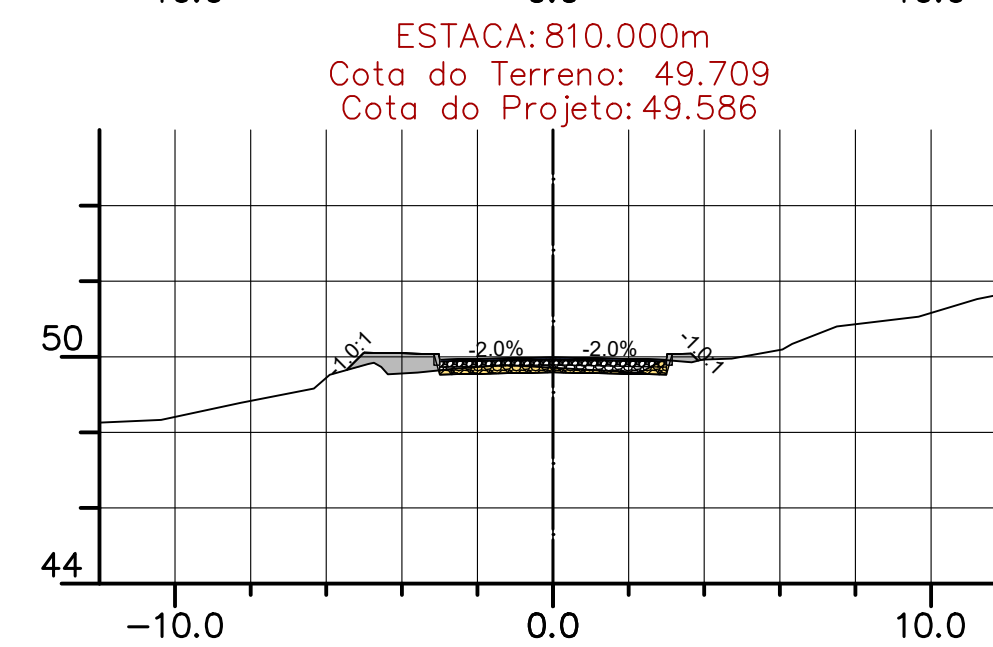
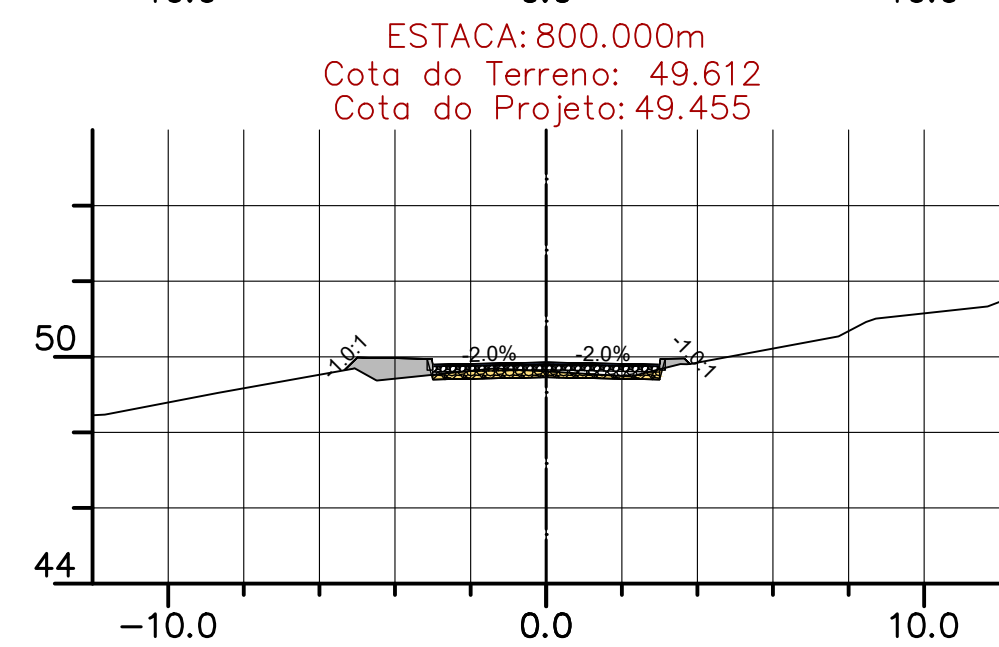
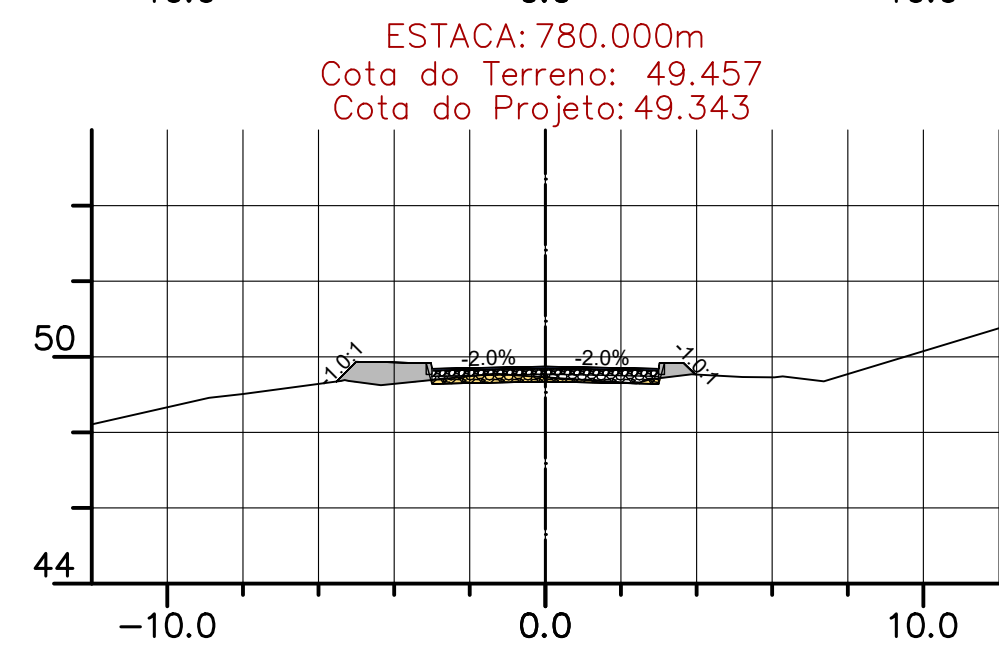
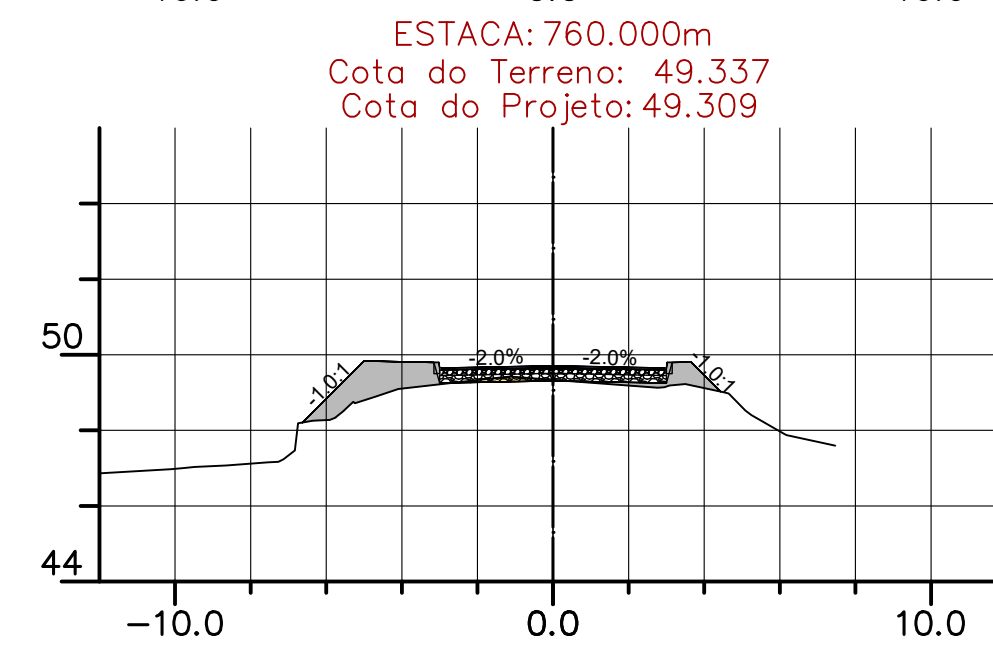
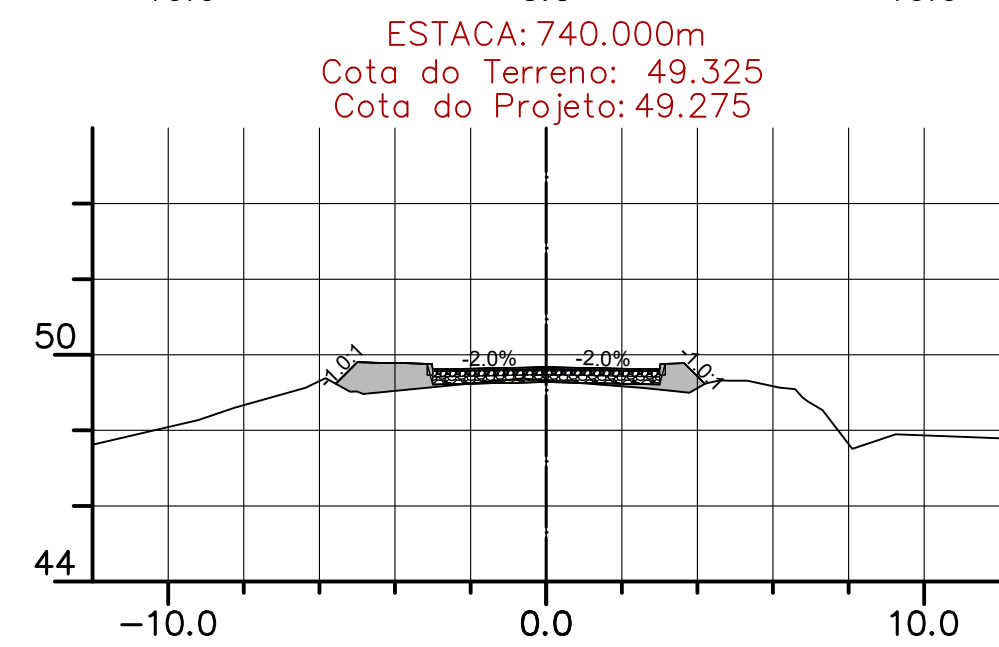
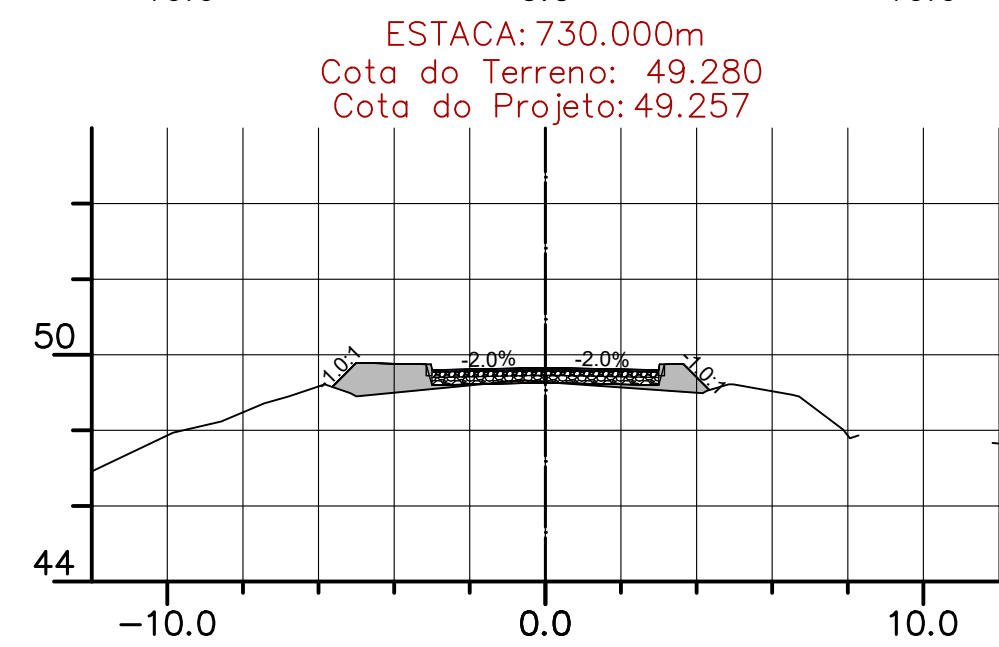
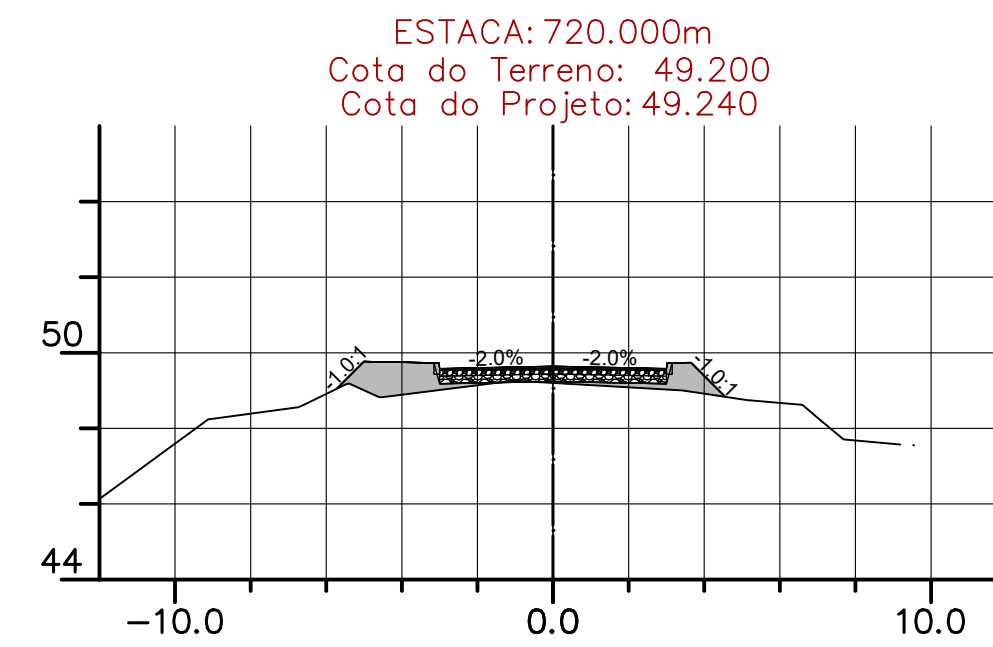
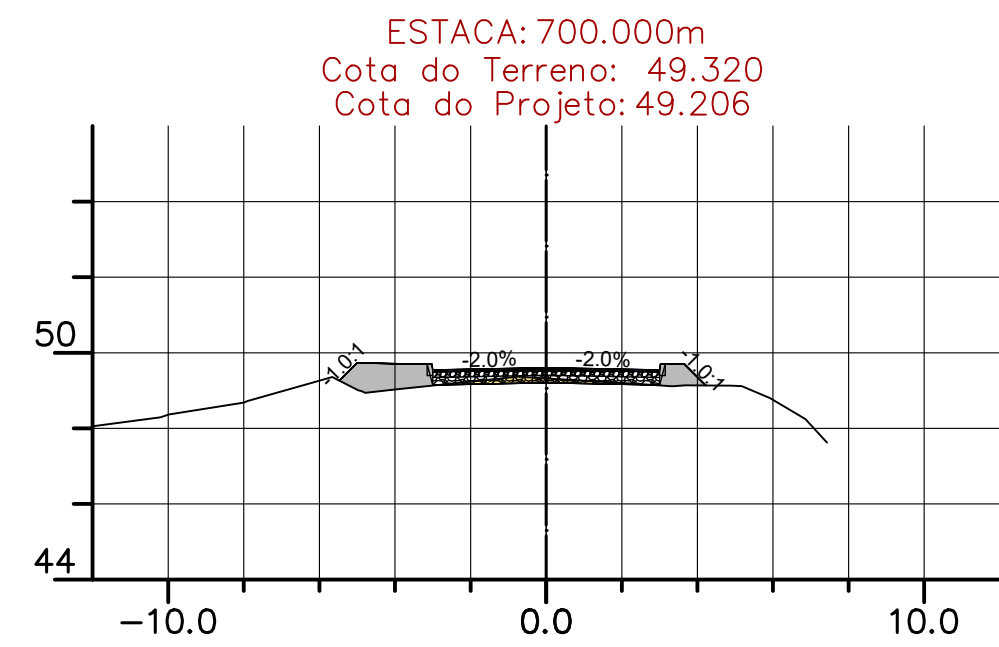
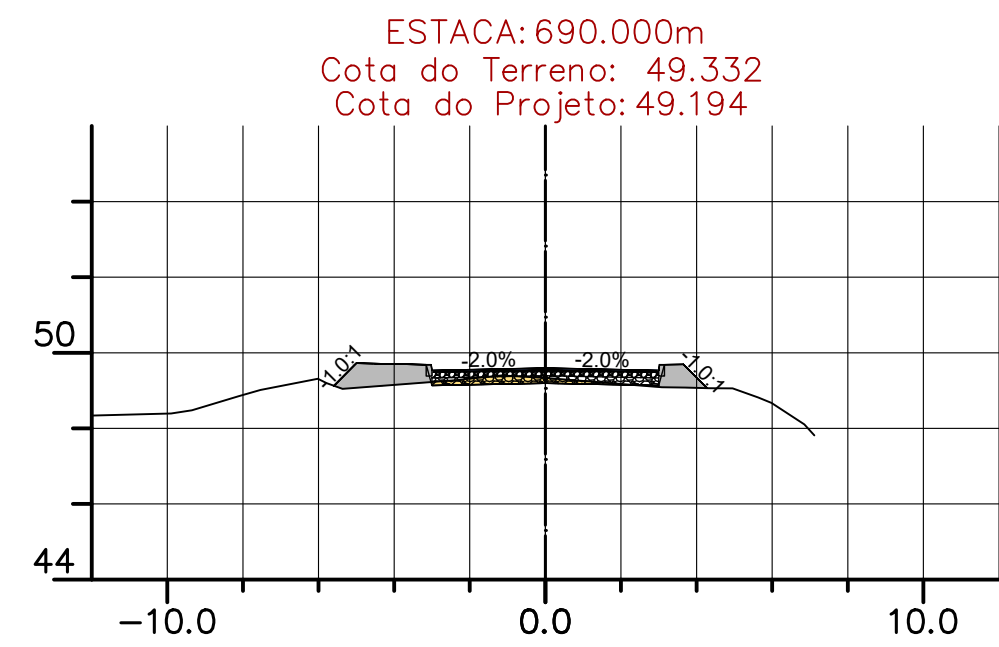
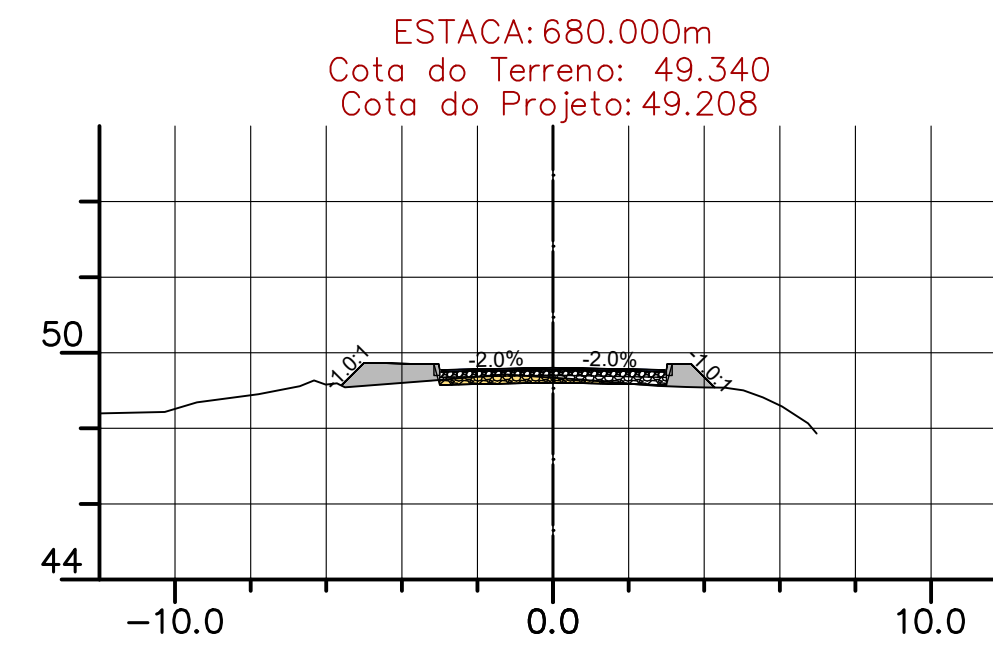
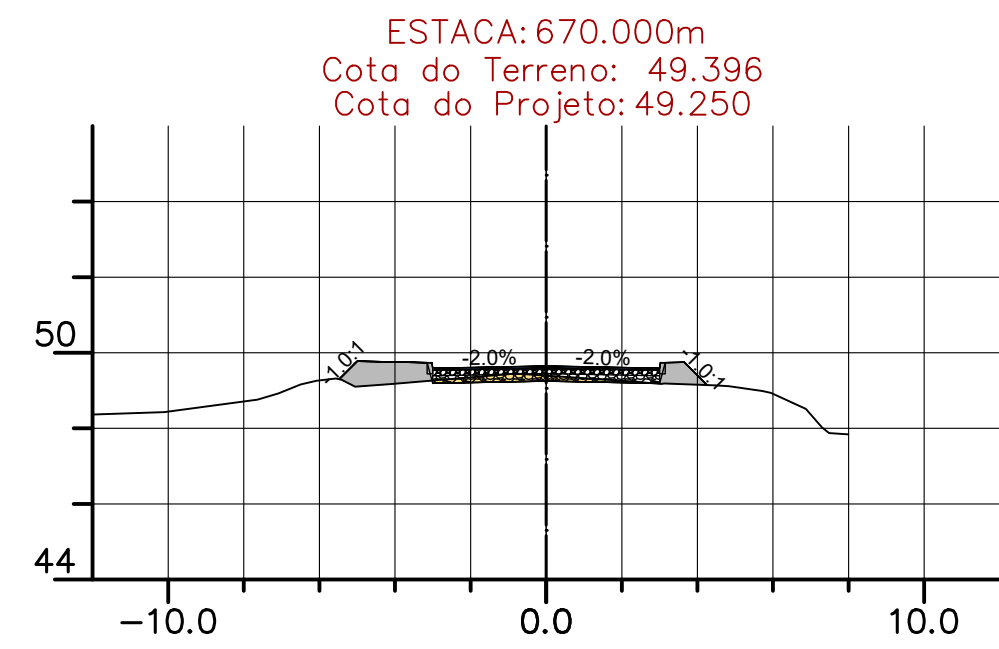
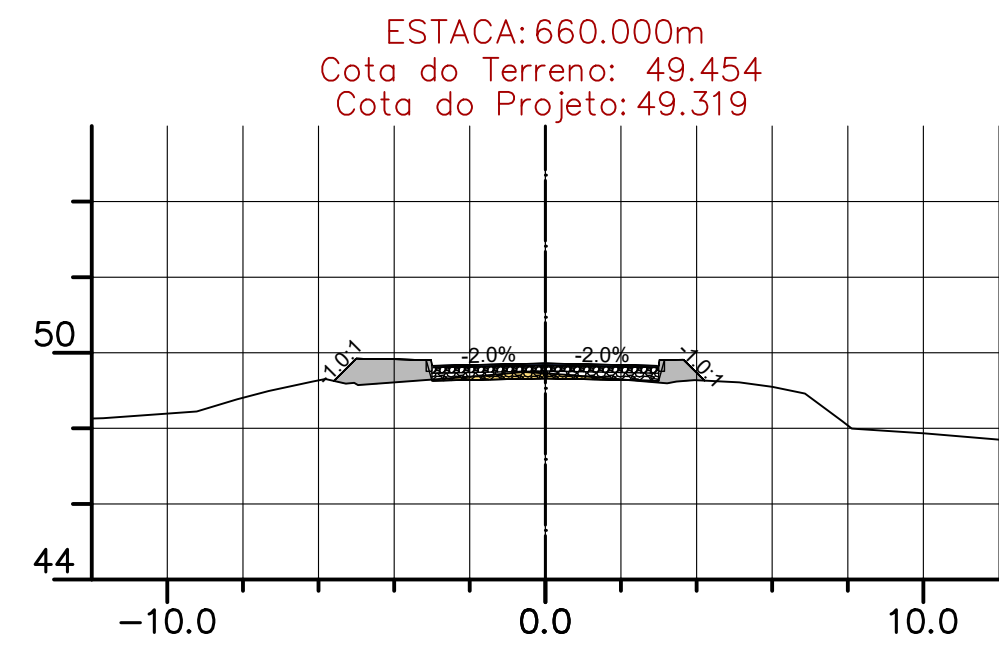
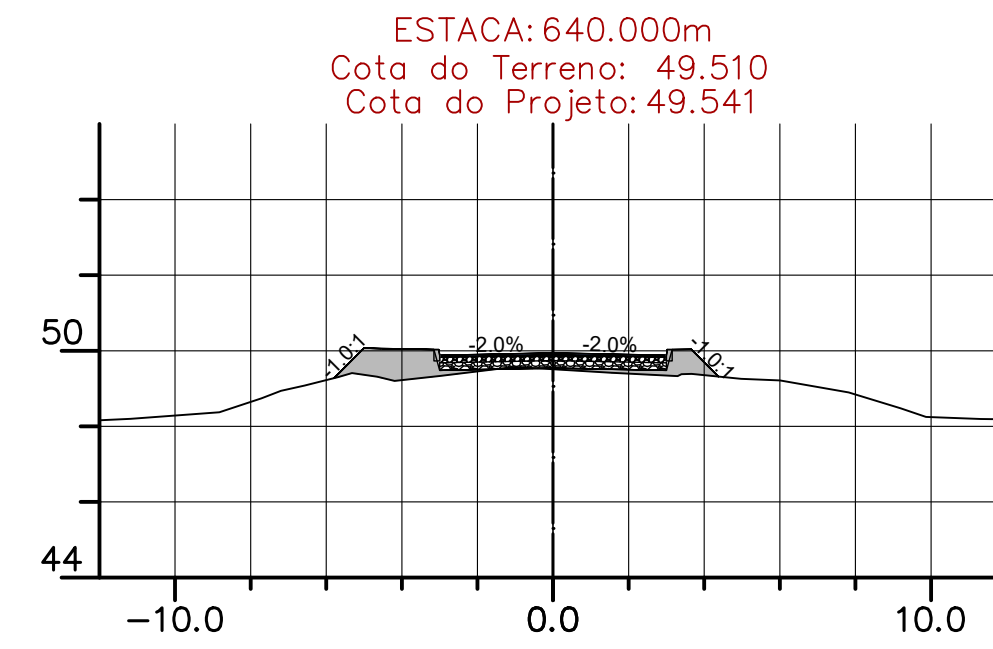
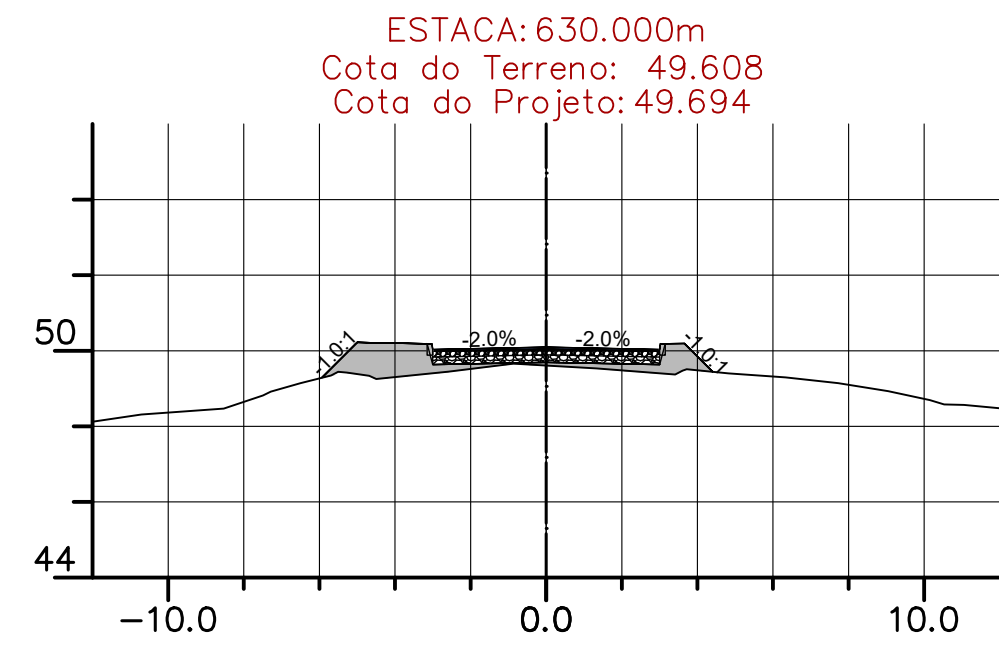
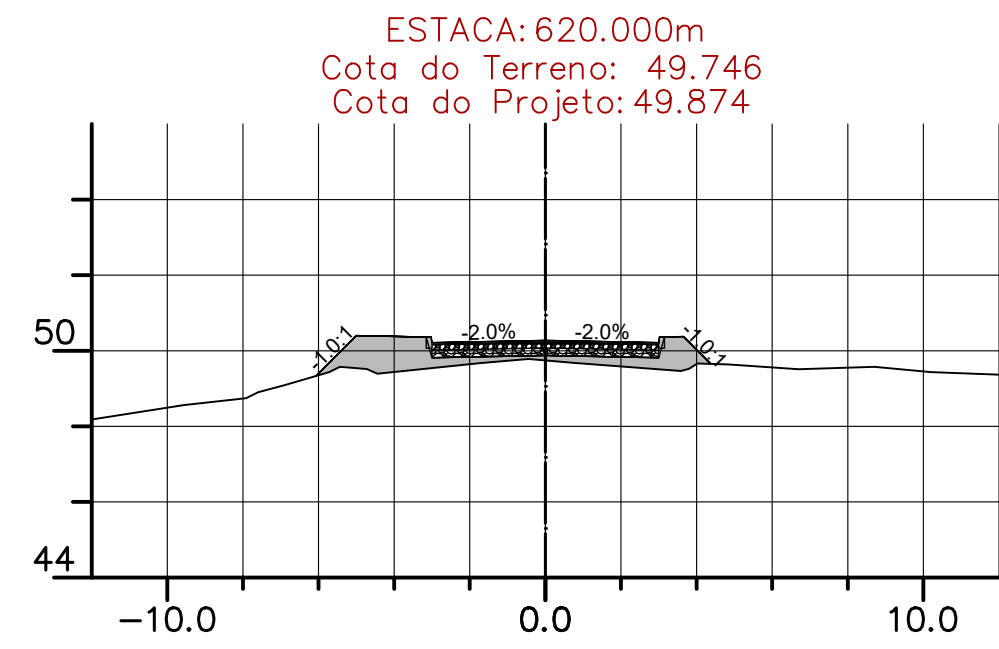
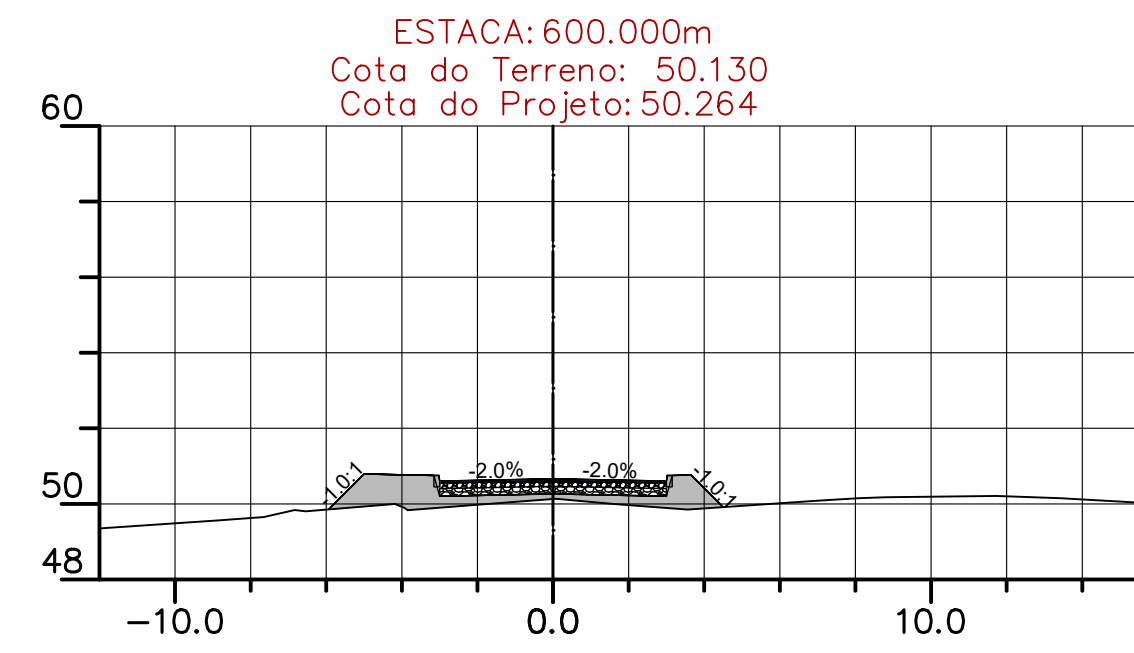
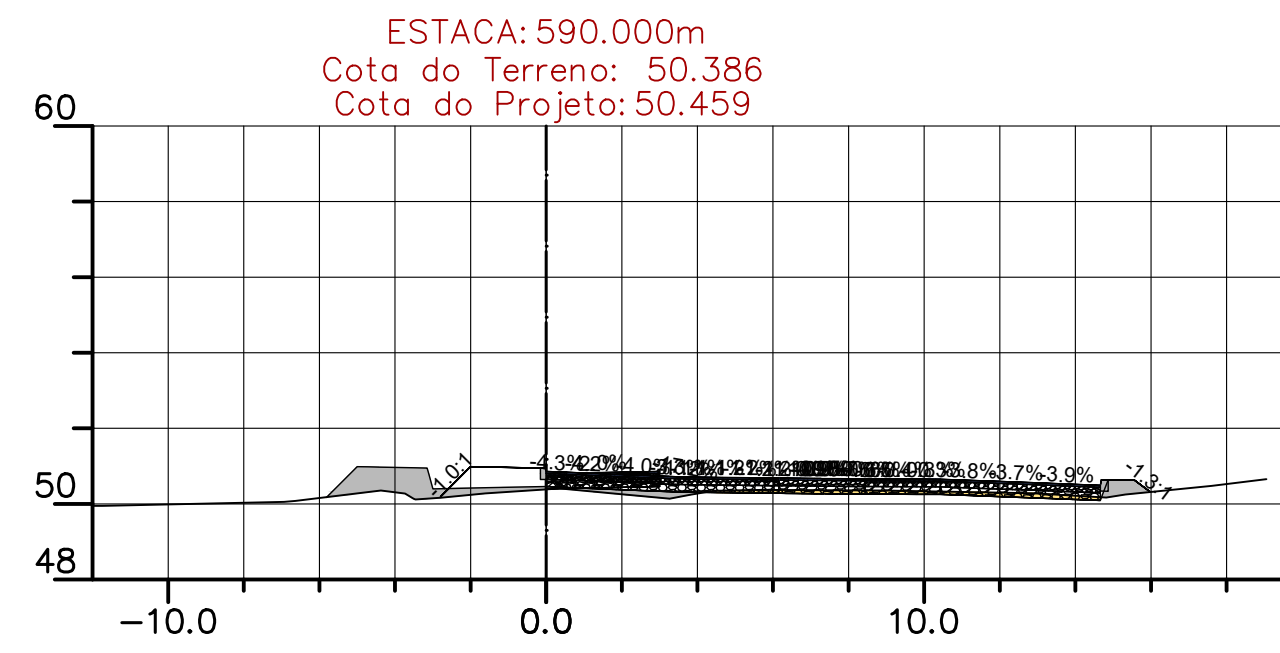
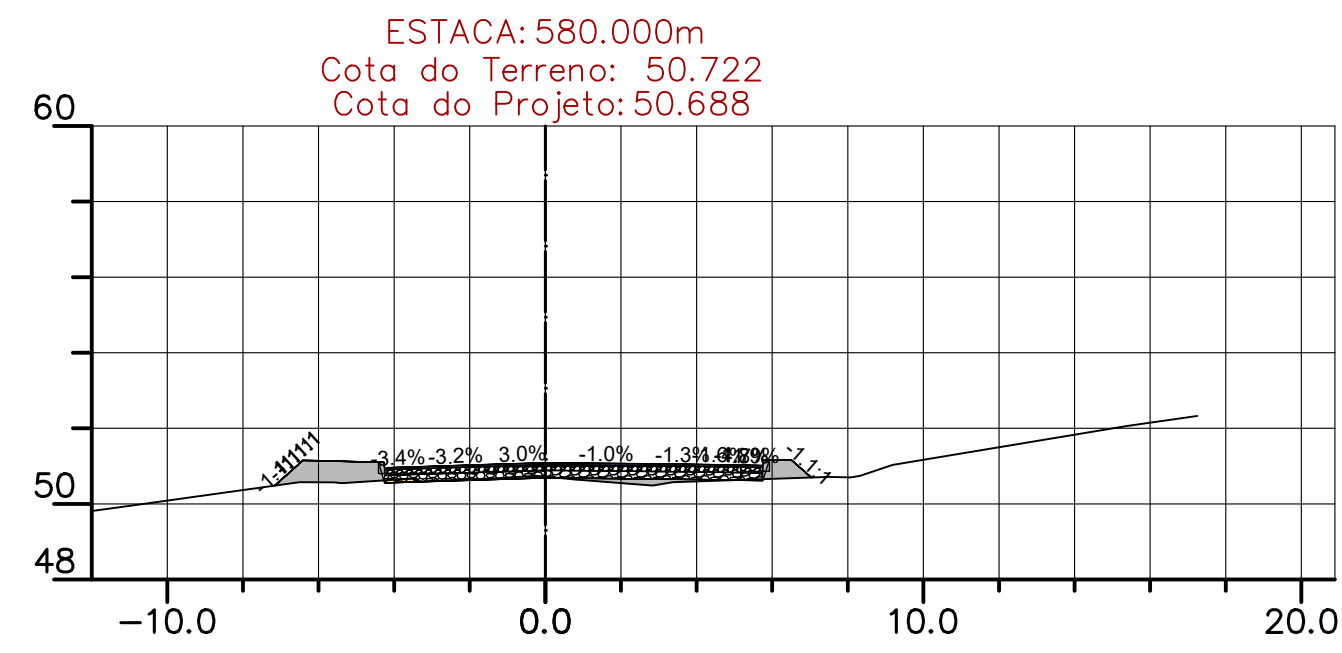


ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA

1_L_GRANF_INFRA_PAV_SPA_RUA_ADRIANO_ENNING.dwg

05.03.2022

GRANFOPOLIS

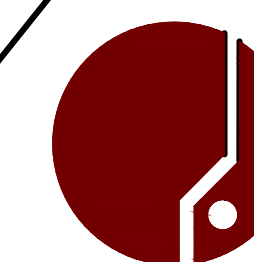


PROJETO GEOMÉTRICO

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO SEÇÕES TRANSVERSAIS DE TERRAPLANAGEM
PROJETO	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	09/11

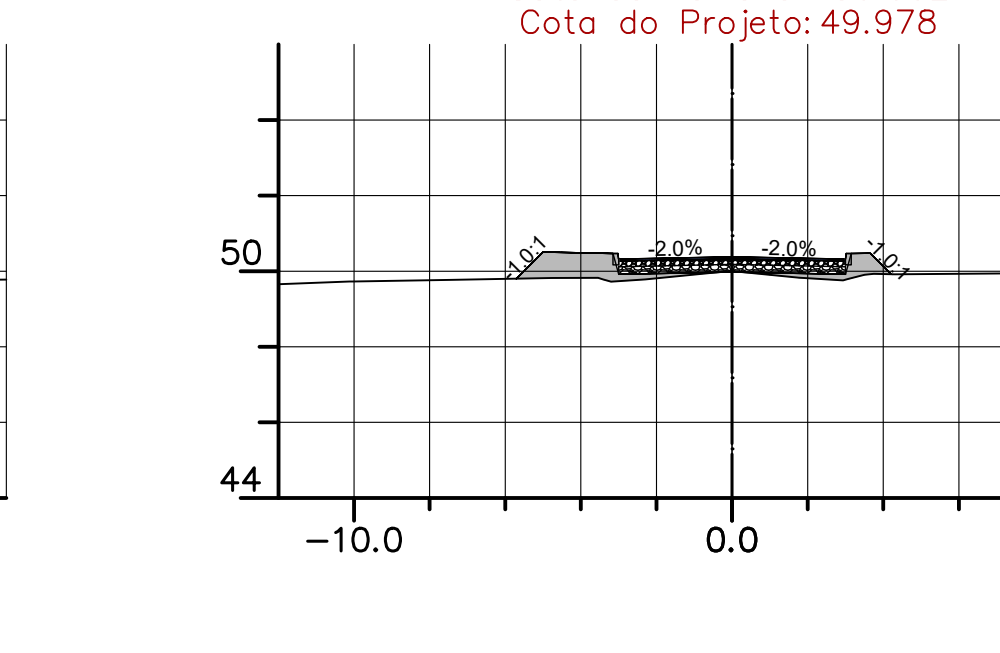
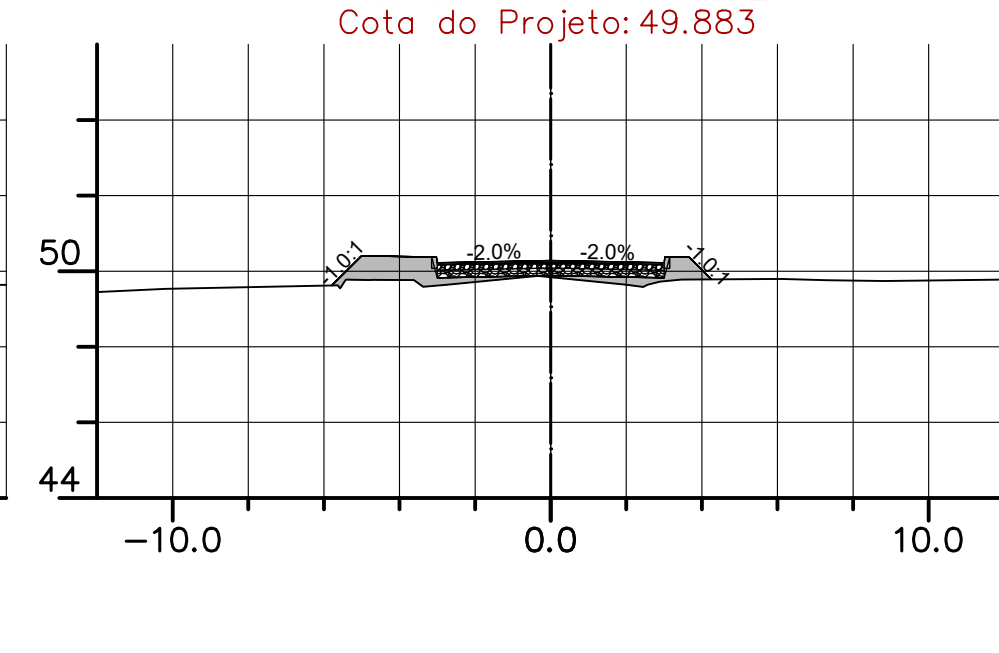
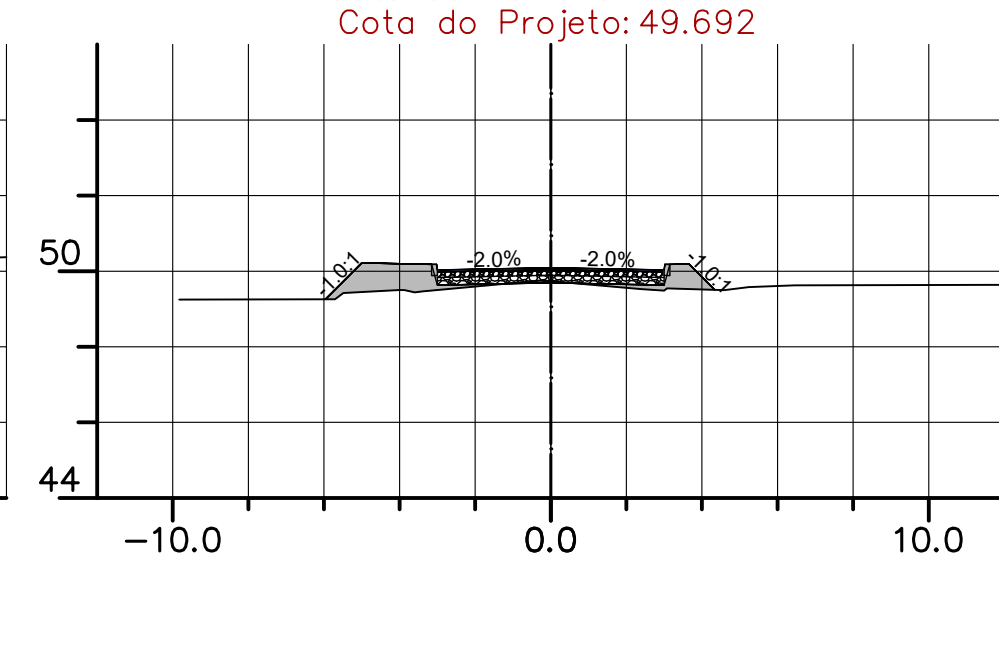
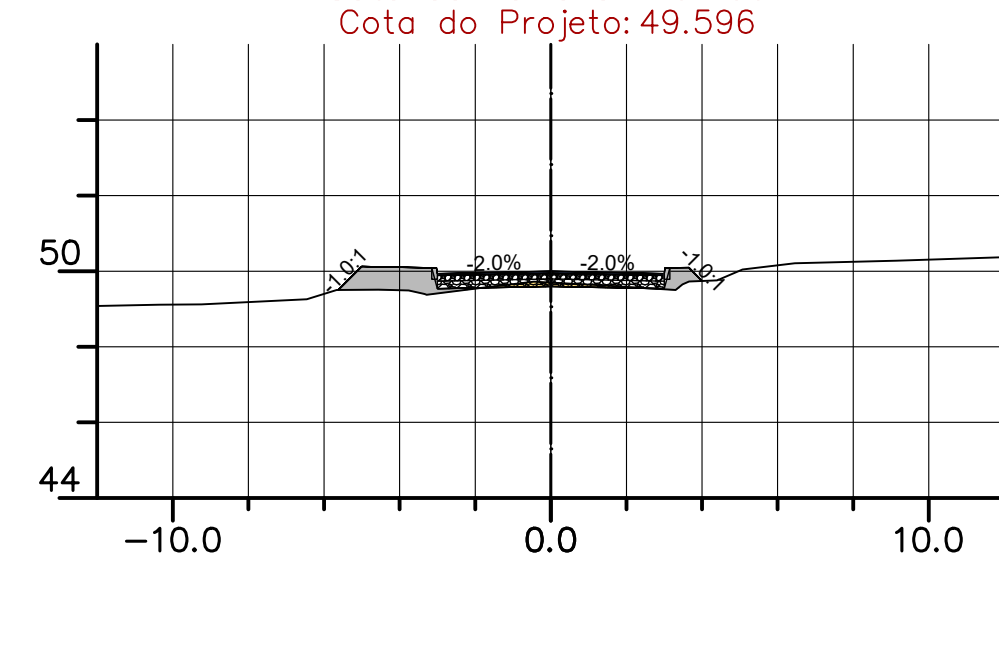
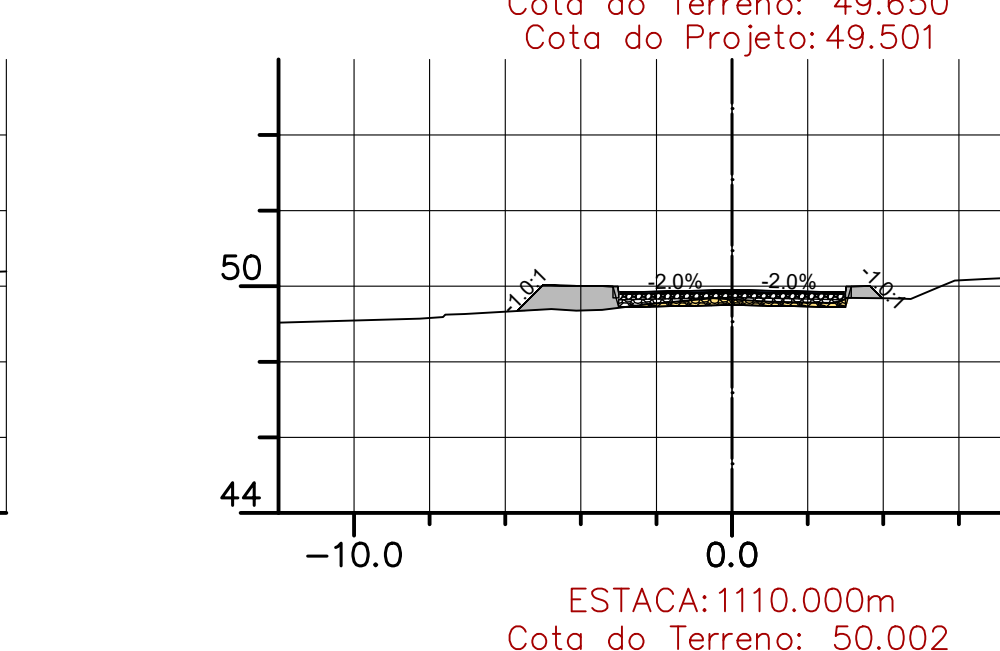
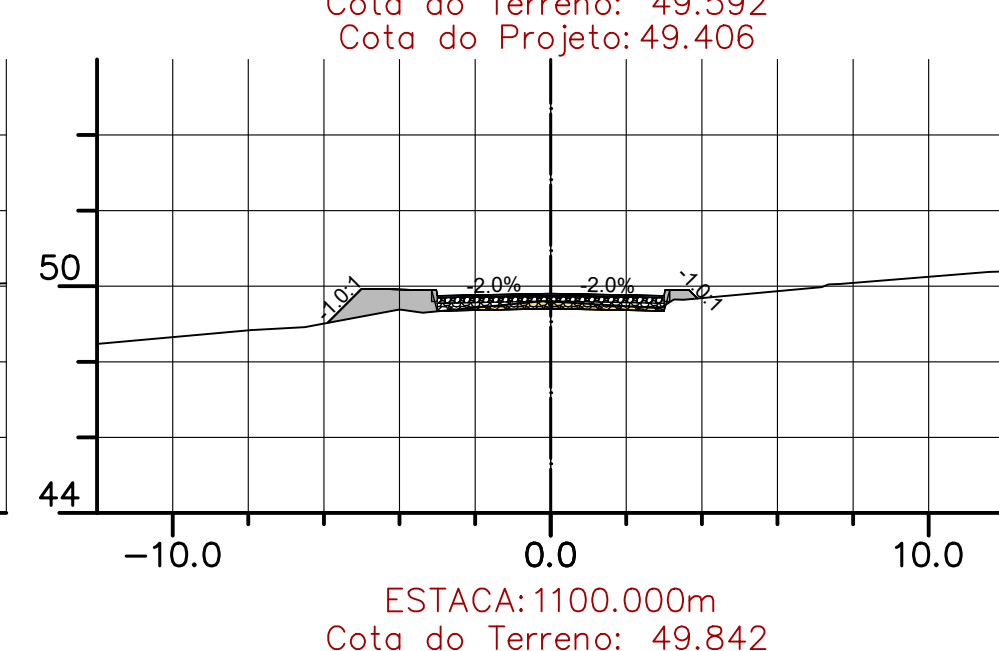
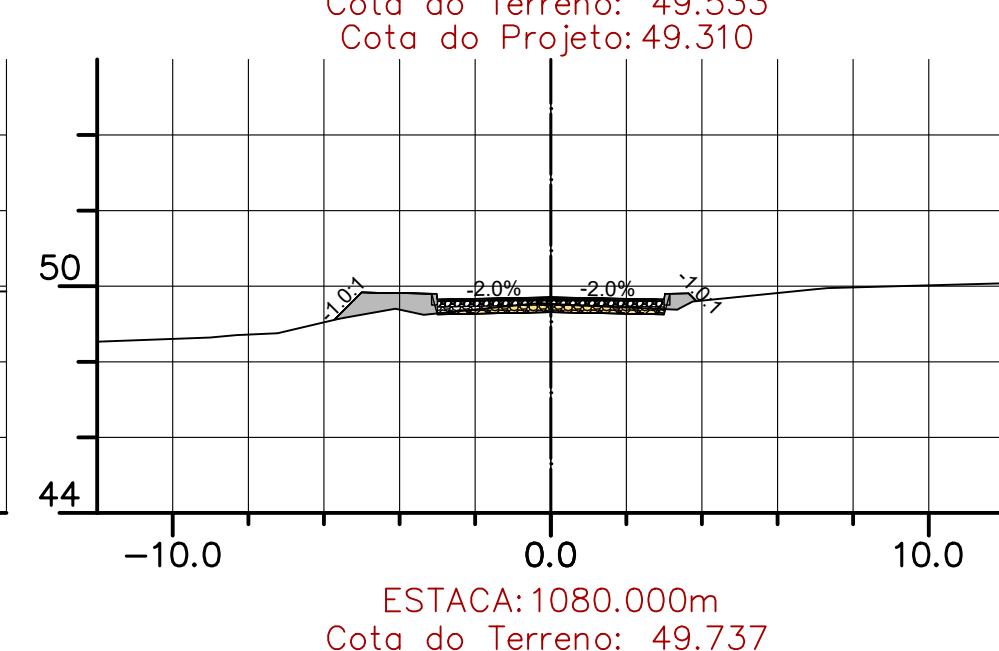
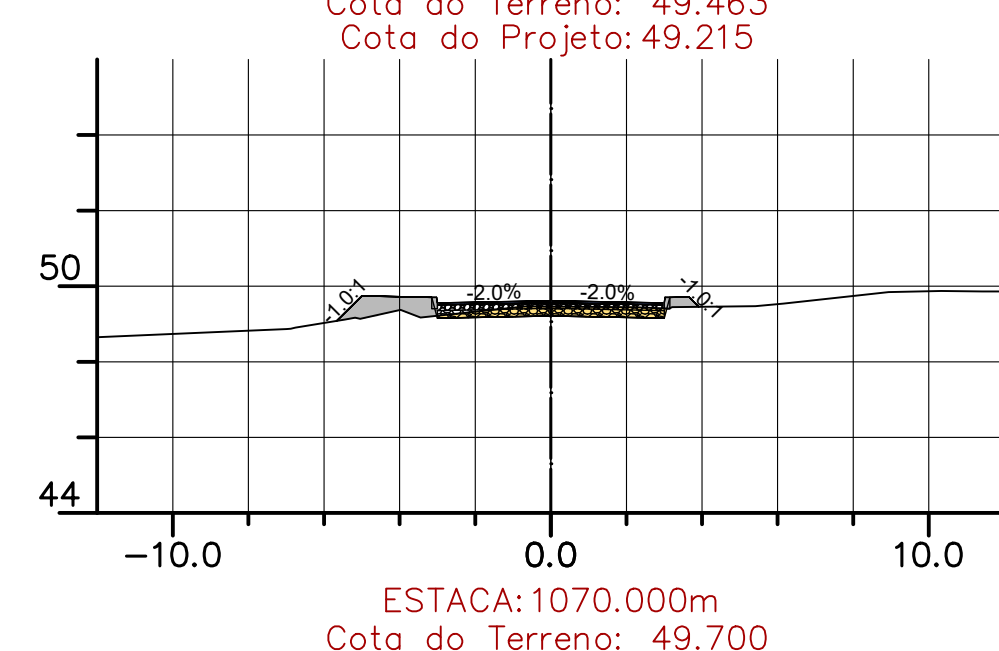
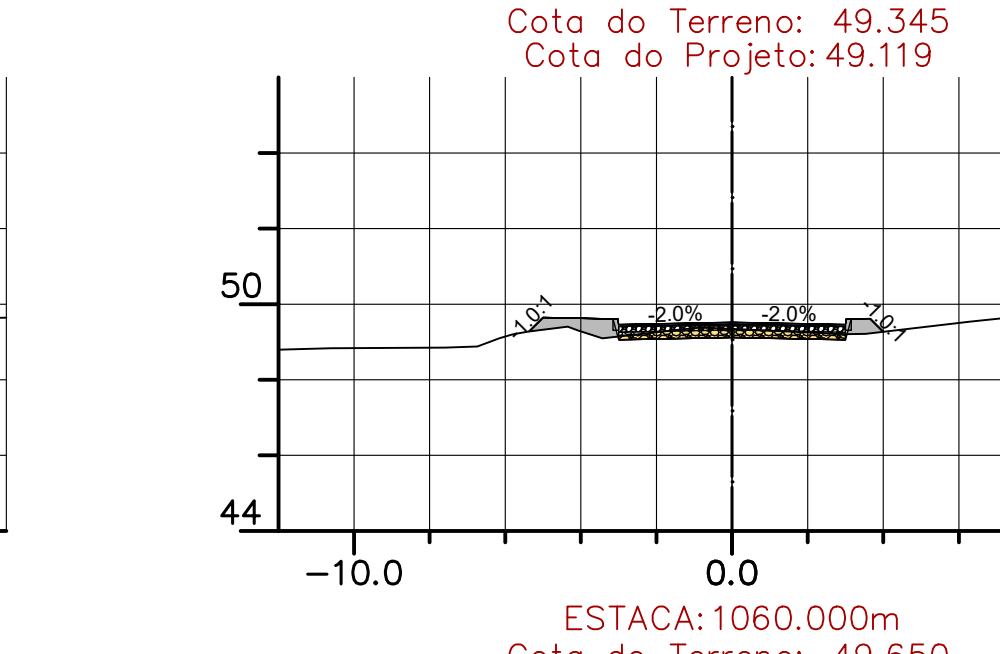
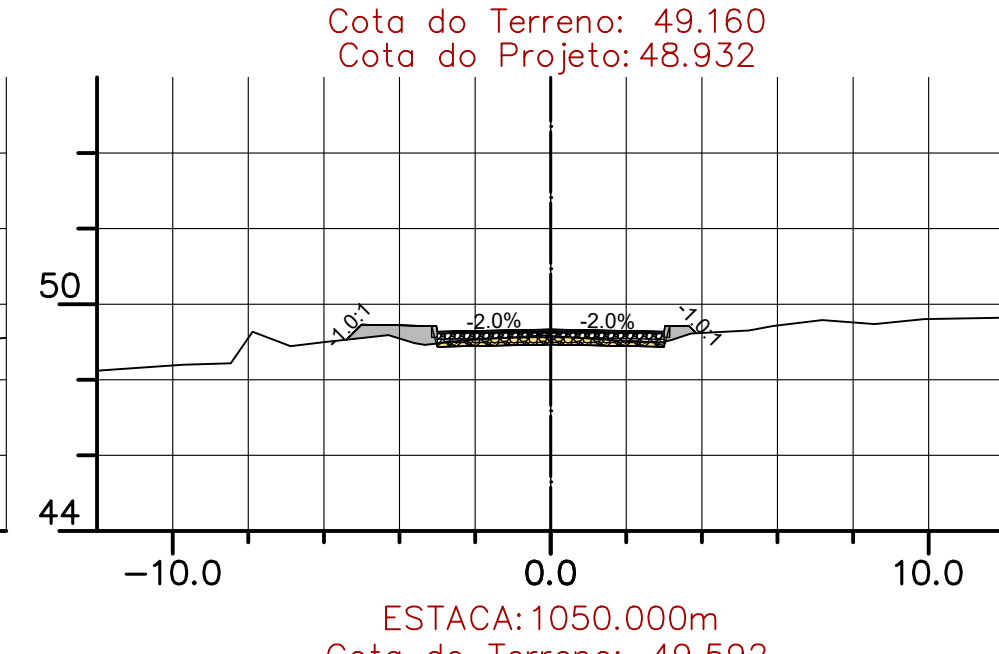
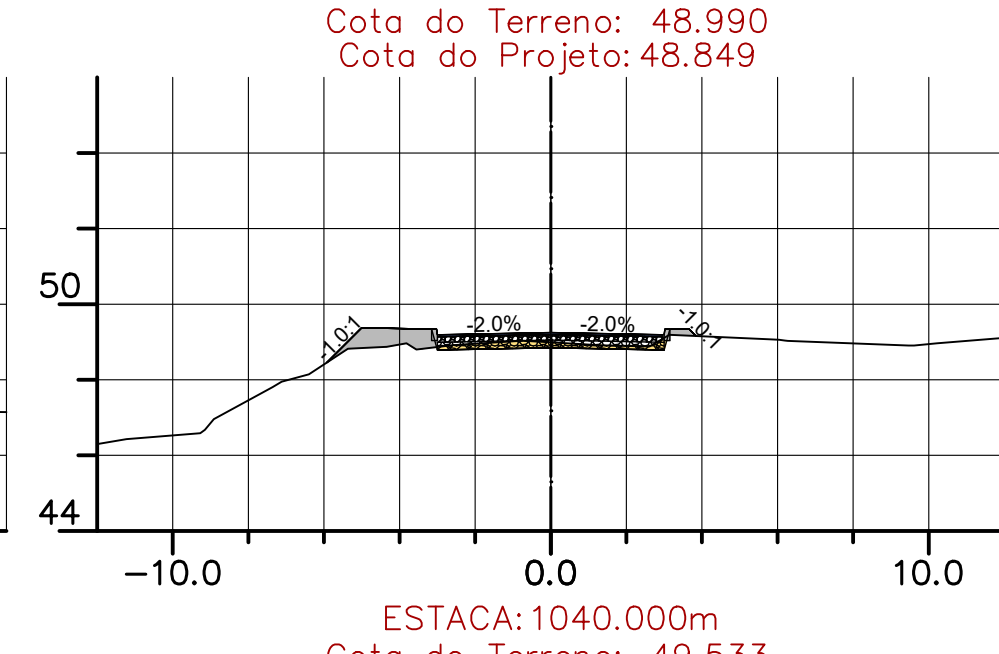
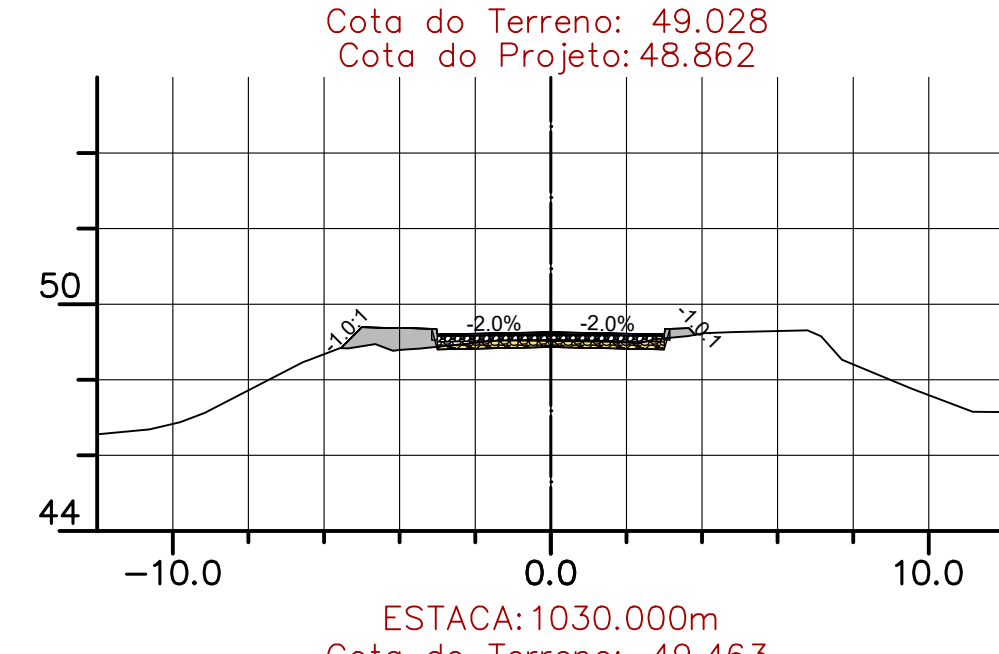
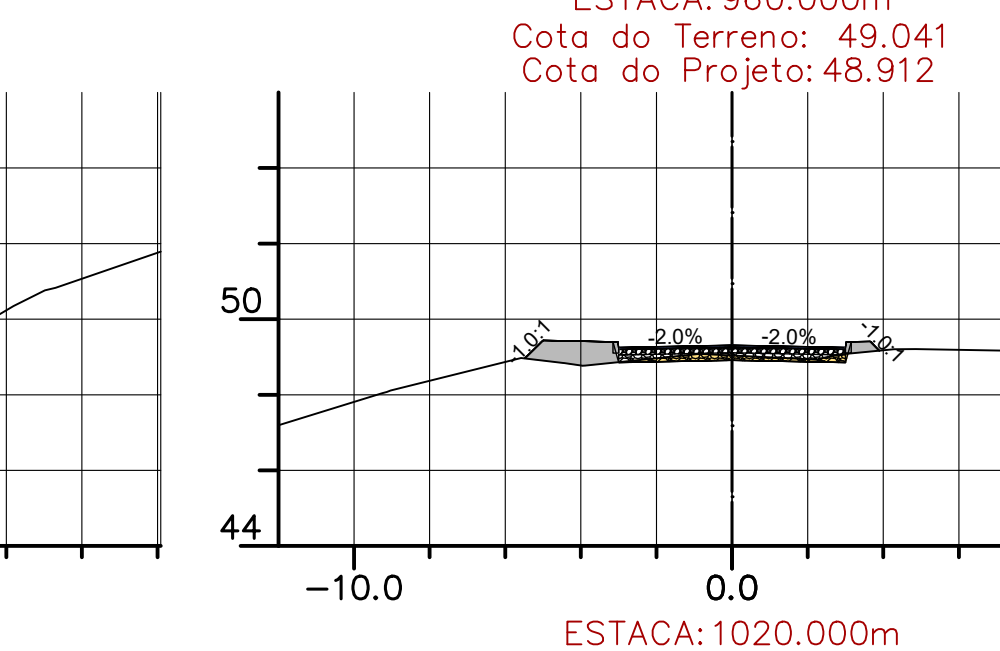
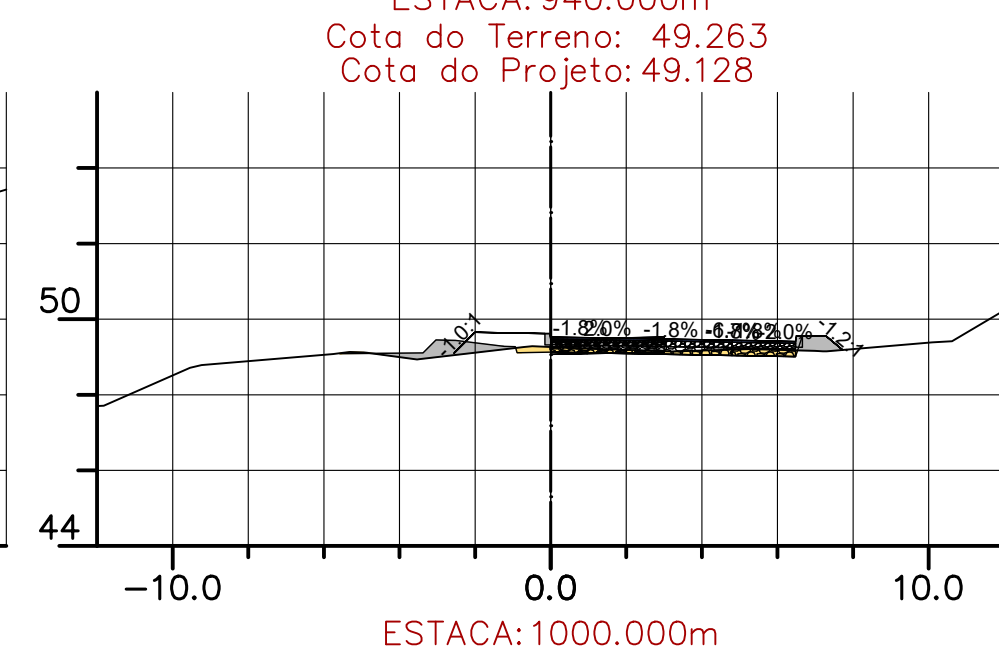
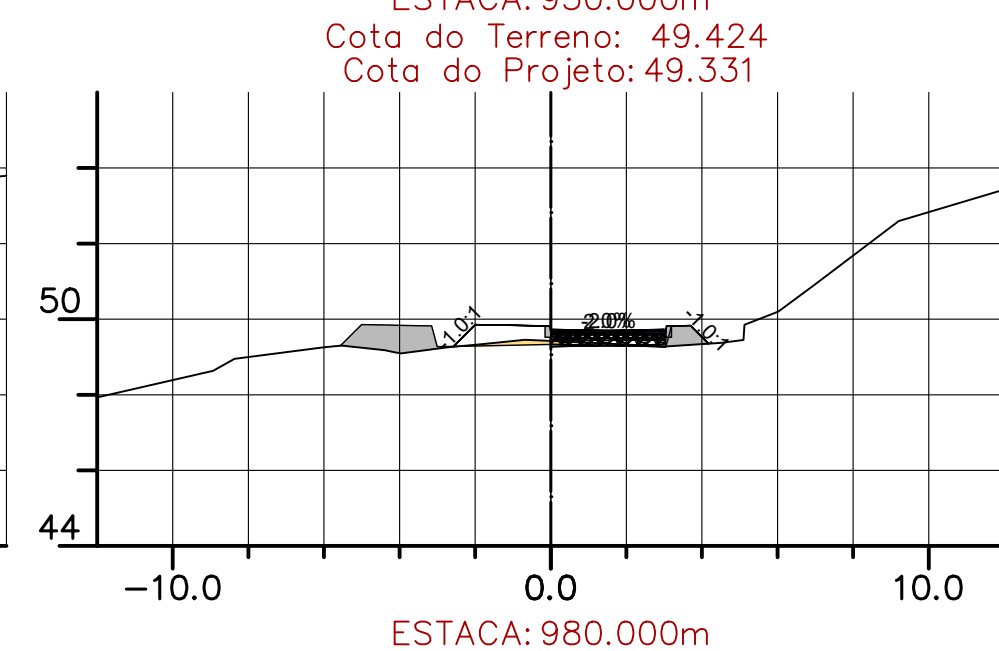
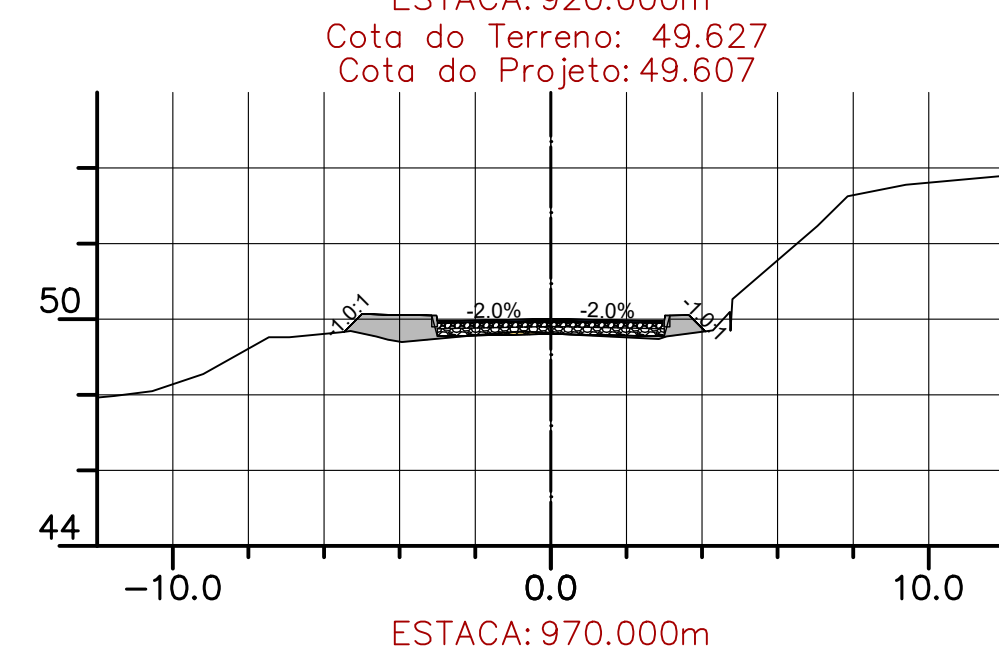
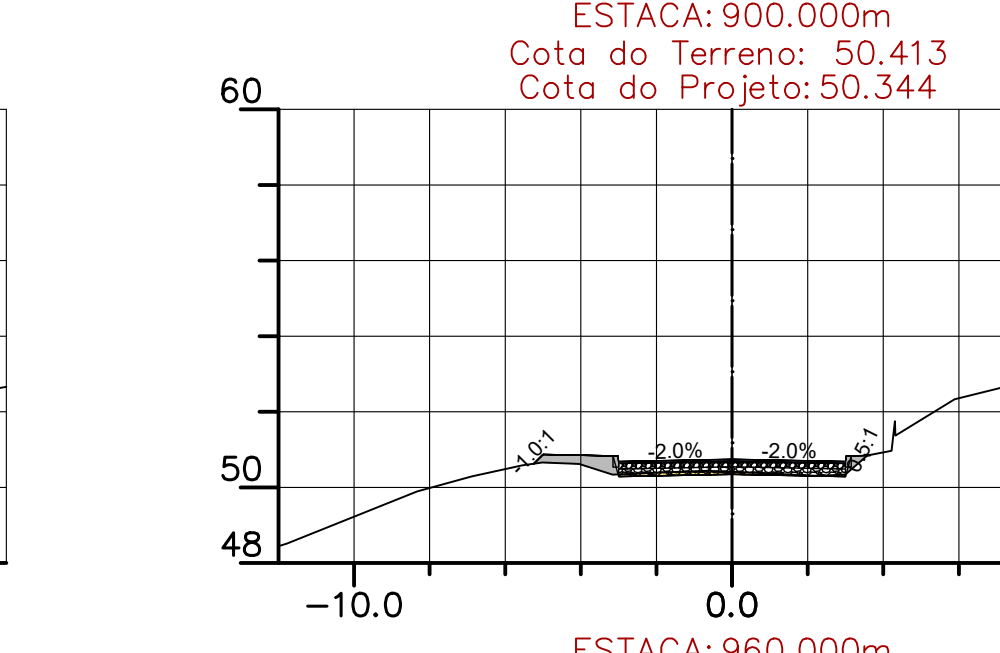
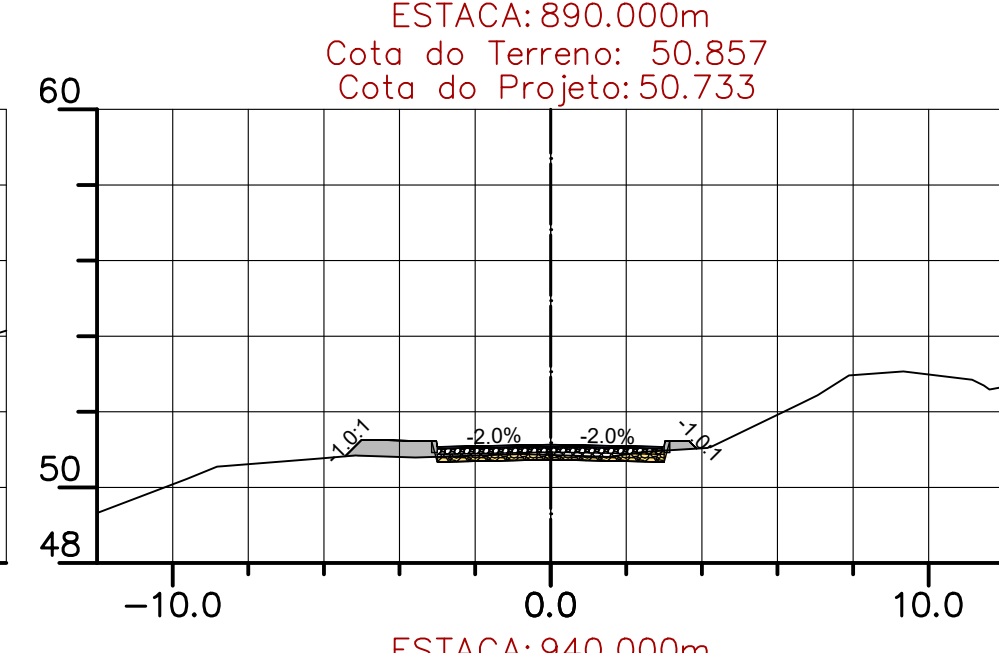
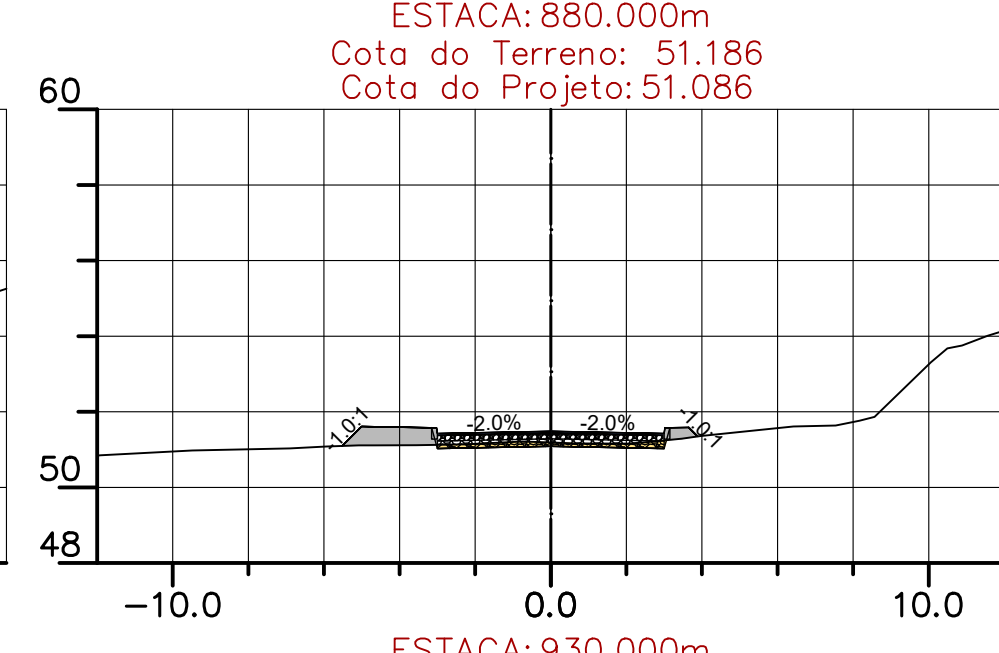
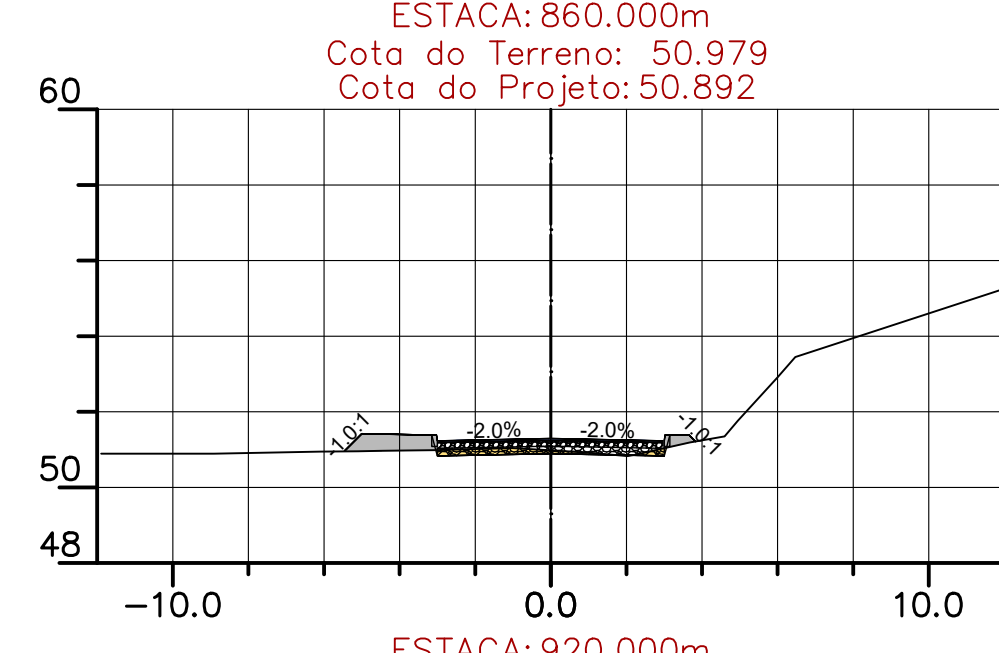
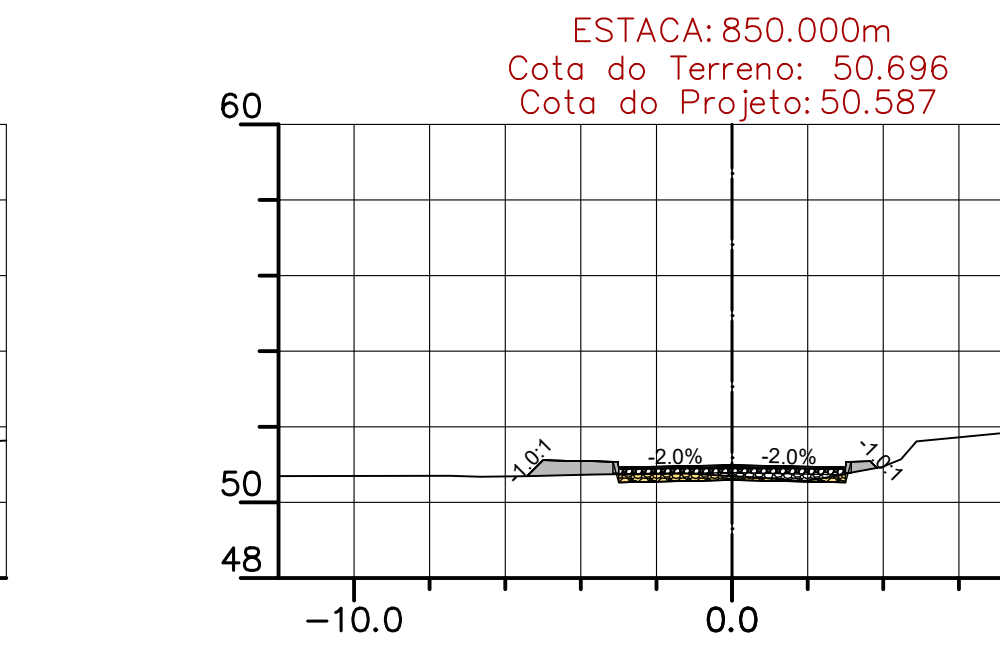
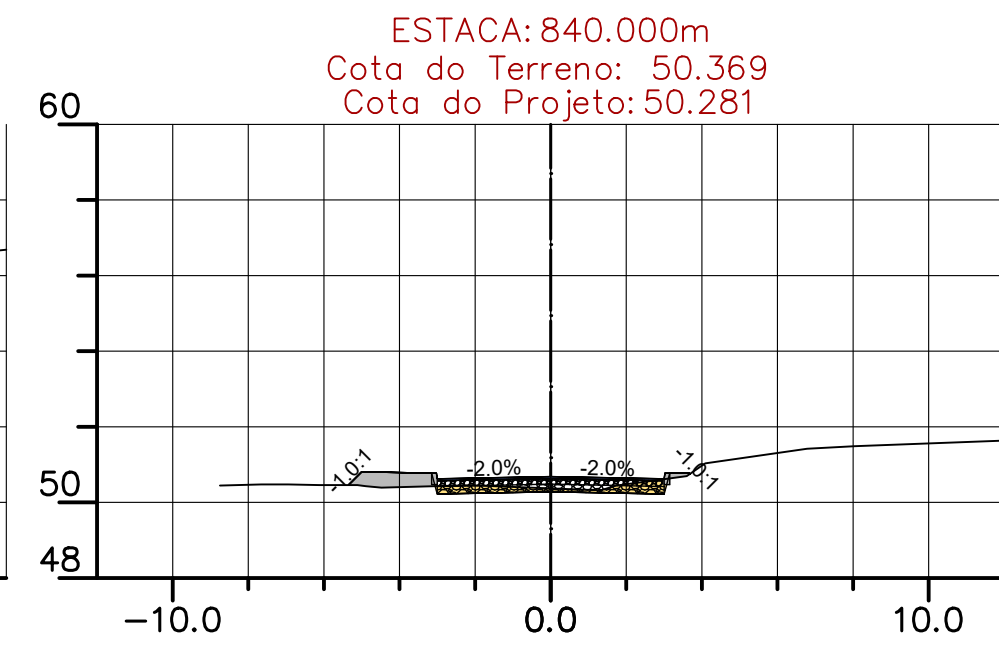
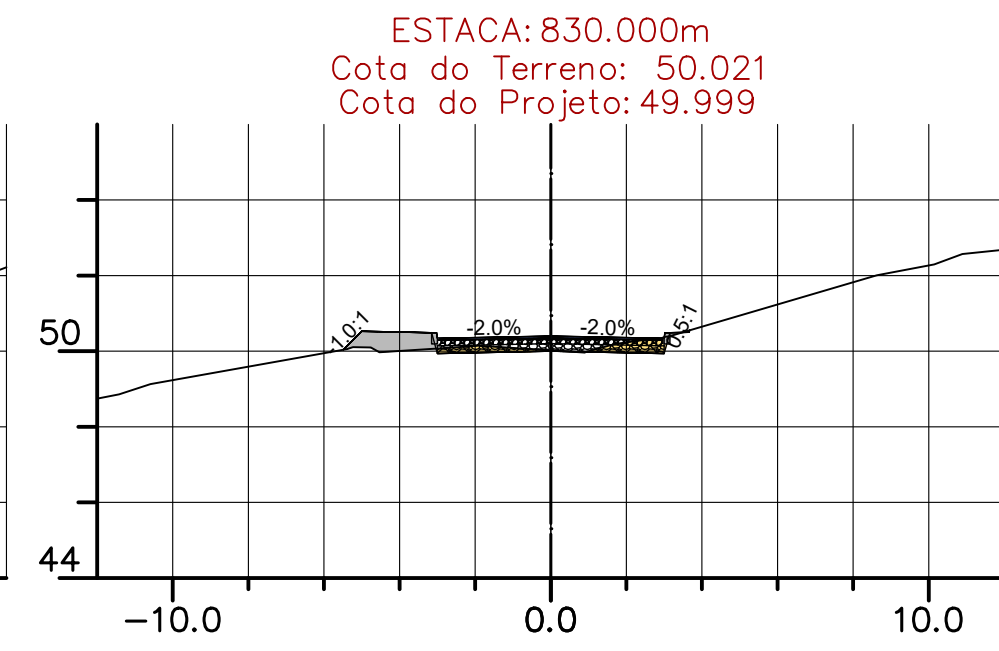
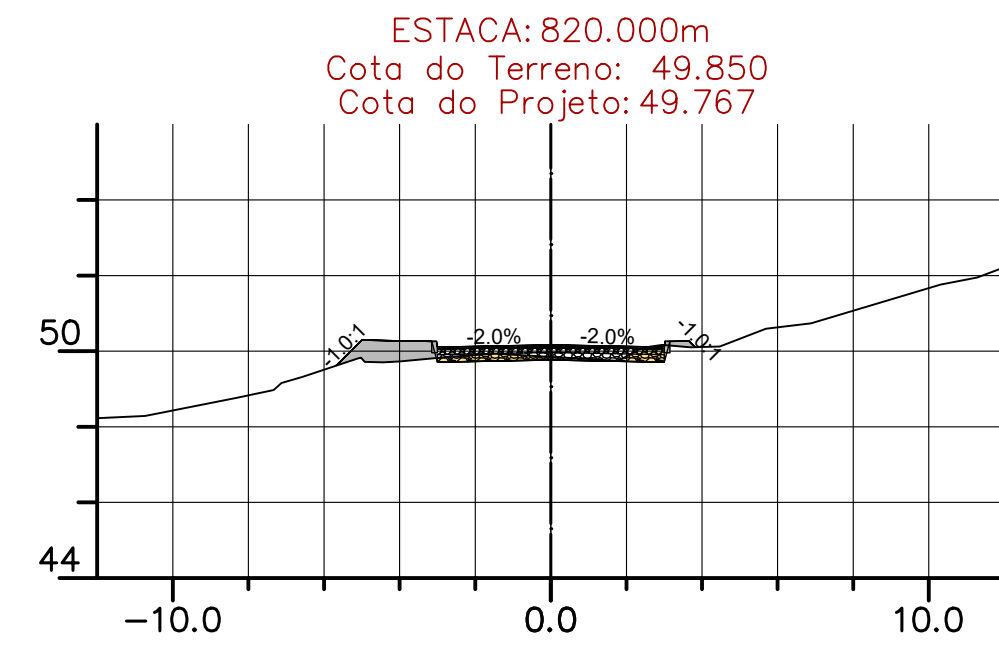


ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFOPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA

1_1_GRANF_INFRA_PAV_SPA_RUA_ADRIANO_ENNING.dwg

05.03.2022

GRANFOPOLIS

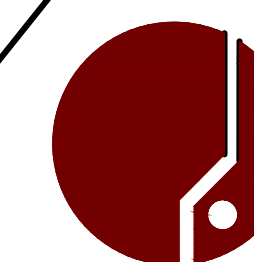


PROJETO GEOMÉTRICO

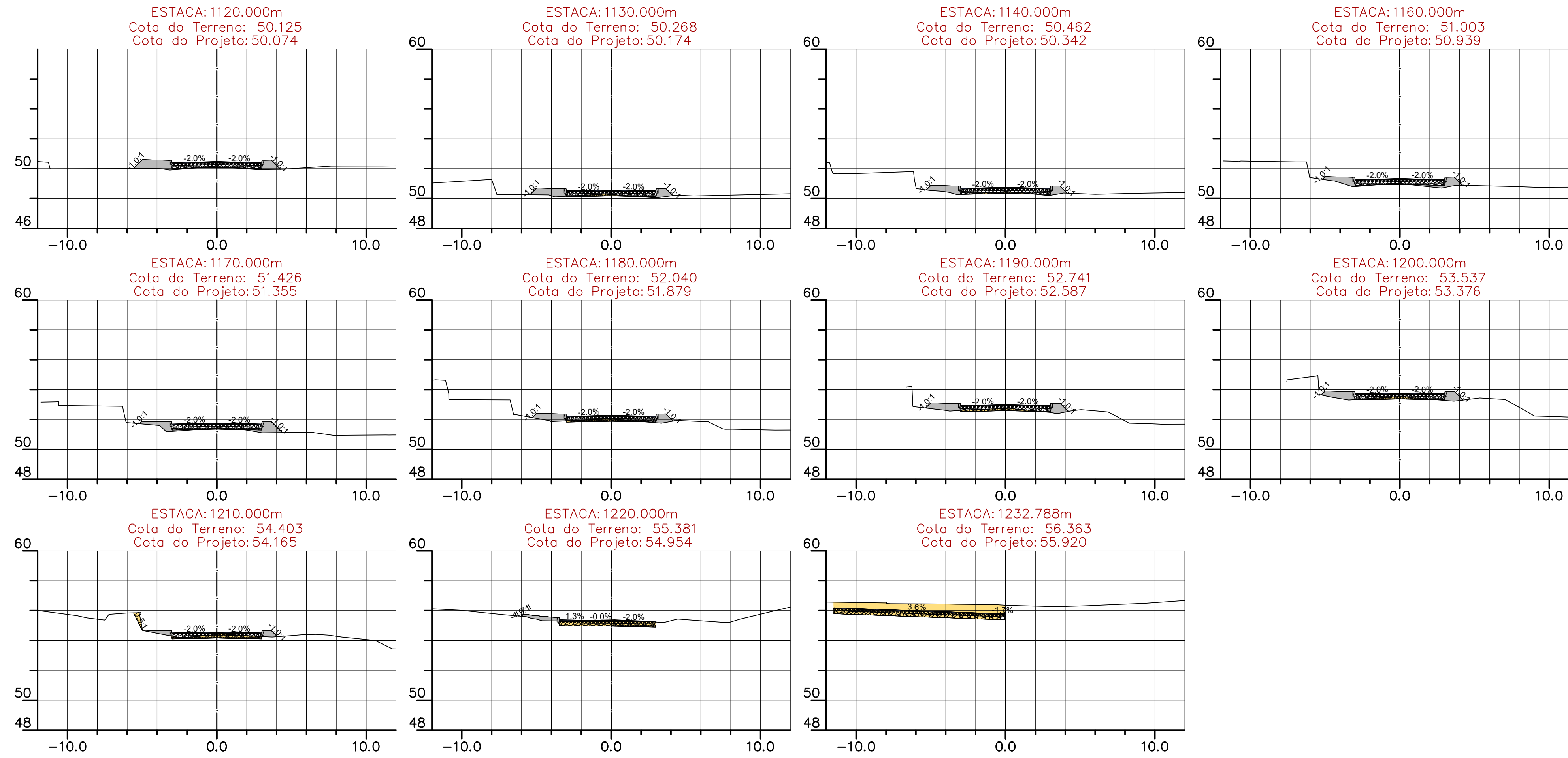
MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO
PROJETO	SEÇÕES TRANSVERSAIS DE TERRAPLANAGEM
	APROVAÇÃO DA PREFEITURA
	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	10/11



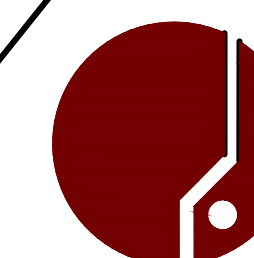
ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFOPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA

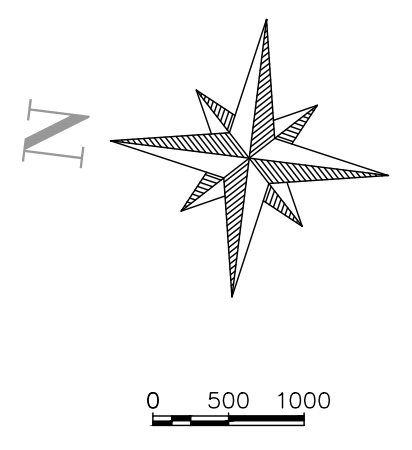
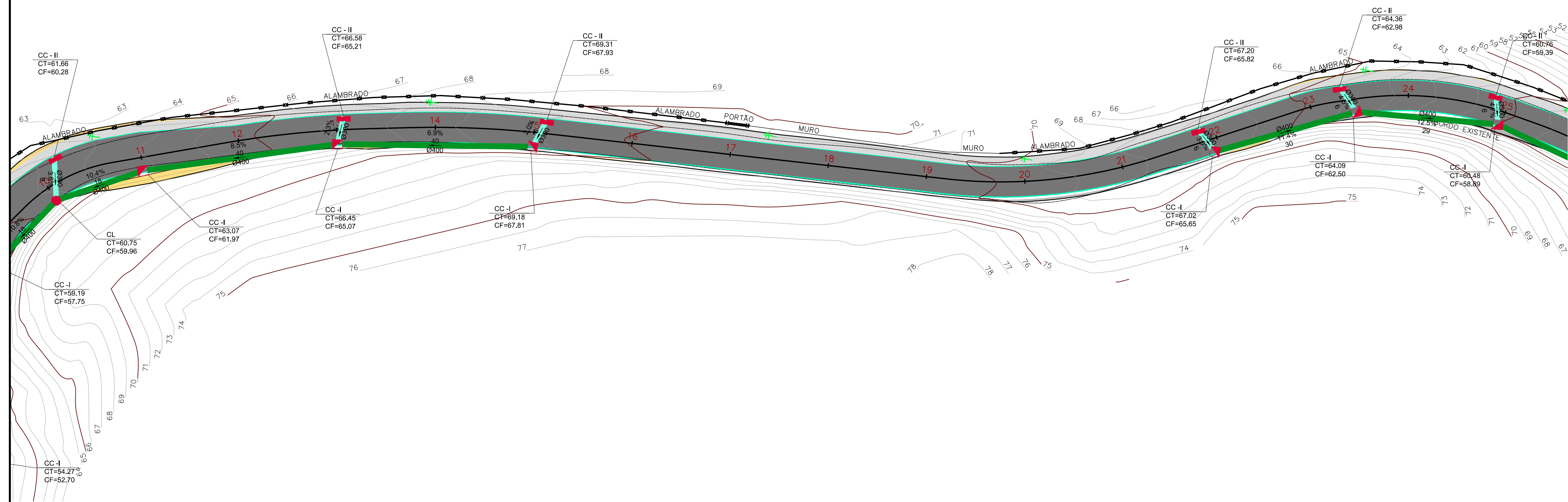


PROJETO GEOMÉTRICO

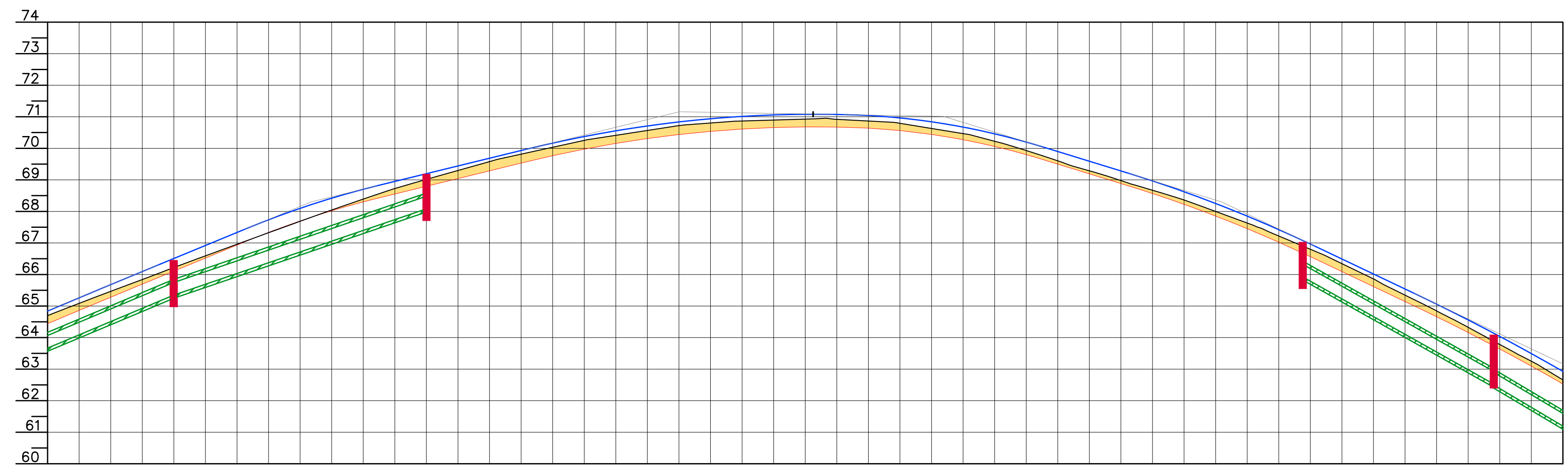
MUNICÍPIO		SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	CONTEÚDO		
RUA ADRIANO ENNING	PROJETO DE PAVIMENTAÇÃO EM CONCRETO ASFÁLTICO		
	SEÇÕES TRANSVERSAIS DE TERRAPLANAGEM		
PROJETO	APROVAÇÃO DA PREFEITURA		
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3			

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	11/11





LEGENDA	
	MEIO FIO DE CONCRETO
	CAIXA COLETORA TIPO II C/ GRELHA DE FERRO
	CAIXA DE LIGAÇÃO
	CAIXA COLETORA TIPO I C/ GRELHA DE FERRO
	BSTC Ø 0,3m - CONCRETO SIMPLES
	BSTC Ø 0,4m - CONCRETO SIMPLES
	BSTC Ø 0,6m - CONCRETO ARMADO
	BSTC Ø 0,8m - CONCRETO ARMADO
	BOCA DE BUEIRO - ALAS RETAS
	CADASTRO - CONSTRUÇÕES EXISTENTES
	POSTE EXISTENTE

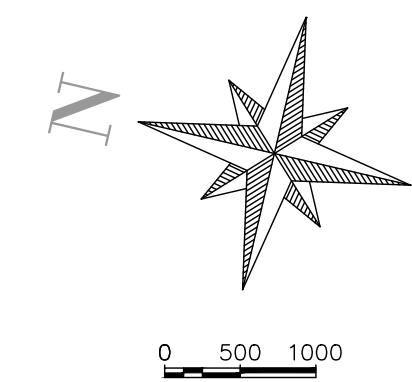
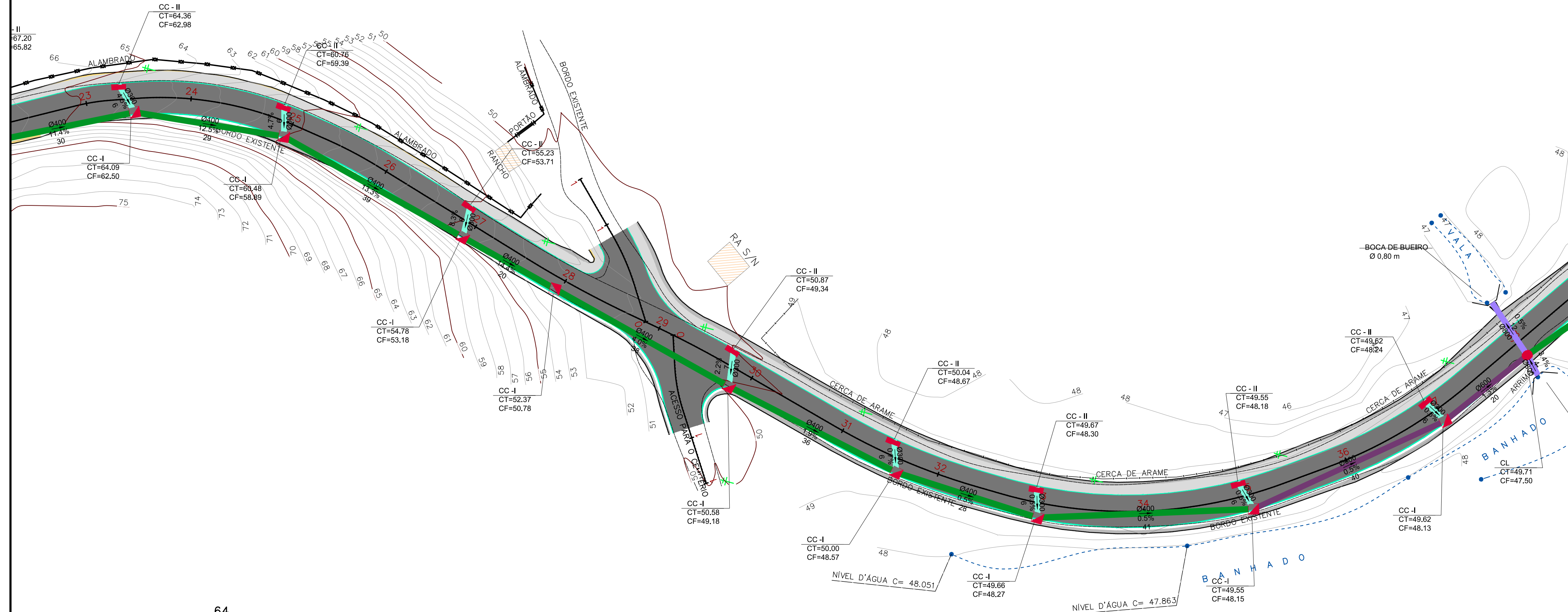


ESTACAS / COTA TERRENO	IDENTIFICAÇÃO DO PV	TAMPA PV / FUNDO PV	COMPRIMENTO DECLIVIDADE DIÂMETRO
64.822			
64.819			
66.507	CC - I - Ø 0,4m - 05	66.446 / 66.093	39,80m / 8,48% / Ø400
67.032			
67.333			
67.707			
68.046			
68.793			
69.161	CC - I - Ø 0,4m - 06	69.111 / 67.905	39,53m / 6,92% / Ø400
69.311			
69.889			
70.166			
70.255			
70.837			
71.112			
71.079			
71.040			
70.841			
70.715			
70.459			
69.899			
69.293			
68.424			
67.893			
67.652			
66.966	CC - I - Ø 0,4m - 07	67.025 / 66.048	29,75m / 11,42% / Ø400
66.116			
65.281			
64.610			
64.054			
63.025	CC - I - Ø 0,4m - 08	64.085 / 62.997	28,79m / 12,53% / Ø400
62.000			

PROJETO DRENAGEM

MUNICÍPIO	SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	CONTEÚDO	
RUA ADRIANO ENNING	PROJETO DE DRENAGEM PLUVIAL	
PROJETO	PLANTA BAIXA E PERFIL LONGITUDINAL	
	APROVAÇÃO DA PREFEITURA	
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3		
REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	02/06

ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA	
	MEIO FIO DE CONCRETO
	CAIXA COLETORA TIPO II C/ GRELHA DE FERRO
	CAIXA DE LIGAÇÃO
	CAIXA COLETORA TIPO I C/ GRELHA DE FERRO
	BSTC Ø 0,3m - CONCRETO SIMPLES
	BSTC Ø 0,4m - CONCRETO SIMPLES
	BSTC Ø 0,6m - CONCRETO ARMADO
	BSTC Ø 0,8m - CONCRETO ARMADO
	BOCA DE BUEIRO - ALAS RETAS
	CADASTRO - CONSTRUÇÕES EXISTENTES
	POSTE EXISTENTE



ESTACAS / COTA TERRENO	IDENTIFICAÇÃO DO PV	TAMPA PV / FUNDO PV	COMPRIMENTO	DECLIVIDADE	DIÂMETRO
24+00.00 61.76			28.79m	12.53%	Ø400
24+00.00 61.76	CC - I Ø 0,4m-09	60.844 58.890			
25+00.00 60.309			39.06m	13.33%	Ø400
25+00.00 60.309					
26+00.00 59.921					
26+00.00 59.921					
27+00.00 59.534			20.14m	14.38%	Ø400
27+00.00 59.534	CC - I Ø 0,4m-09	54.716 52.762			
28+00.00 59.147					
28+00.00 59.147					
29+00.00 58.760					
29+00.00 58.760	CC - I Ø 0,4m-11	53.946 51.992			
30+00.00 58.373			37.97m	3.98%	Ø400
30+00.00 58.373					
31+00.00 57.986					
31+00.00 57.986					
32+00.00 57.599					
32+00.00 57.599	CC - I Ø 0,4m-12	52.786 50.832			
33+00.00 57.212			35.80m	1.94%	Ø400
33+00.00 57.212					
34+00.00 56.825					
34+00.00 56.825	CC - I Ø 0,4m-13	52.000 50.046			
35+00.00 56.438			28.28m	0.50%	Ø400
35+00.00 56.438					
36+00.00 56.051					
36+00.00 56.051	CC - I Ø 0,4m-14	49.866 47.912			
37+00.00 55.664			41.17m	0.50%	Ø400
37+00.00 55.664					
38+00.00 55.277					
38+00.00 55.277	CC - I Ø 0,4m-03	49.658 47.704			
39+00.00 54.890			40.16m	0.50%	Ø400
39+00.00 54.890					
40+00.00 54.503					
40+00.00 54.503					
41+00.00 54.116					
41+00.00 54.116					
42+00.00 53.729					
42+00.00 53.729					
43+00.00 53.342					
43+00.00 53.342					
44+00.00 52.955					
44+00.00 52.955					
45+00.00 52.568					
45+00.00 52.568					
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46+00.00 52.181					
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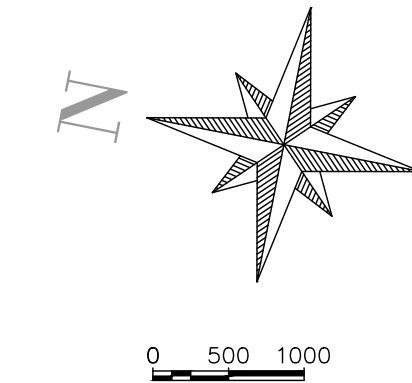
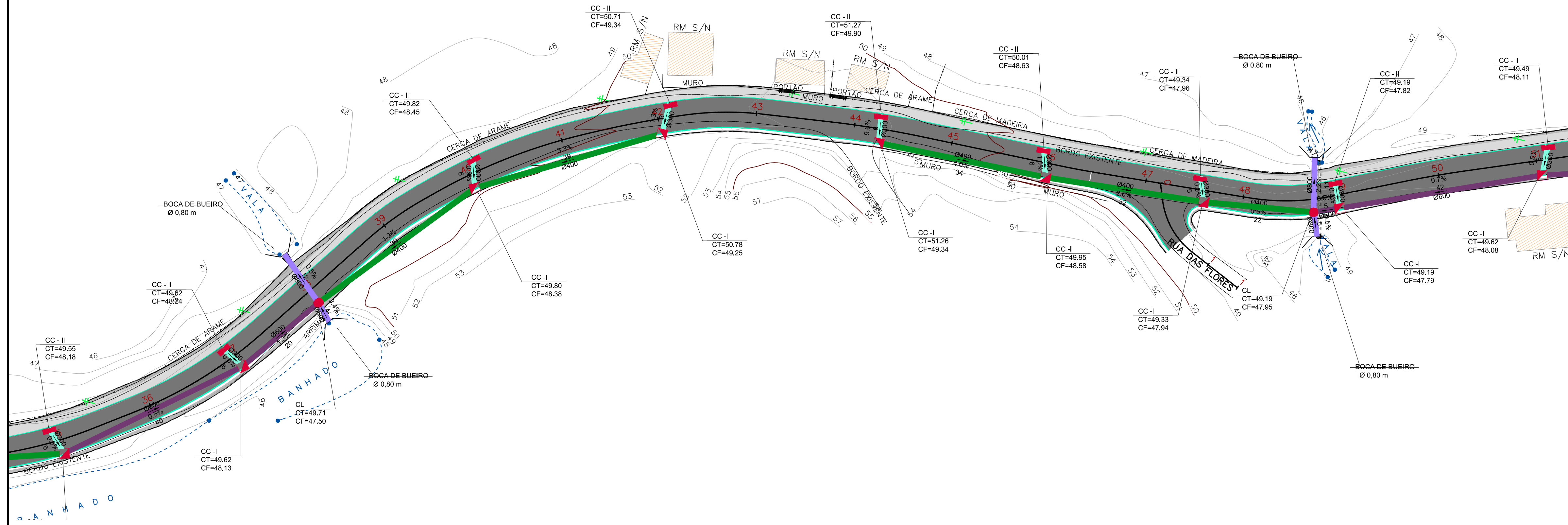
PROJETO DRENAGEM

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

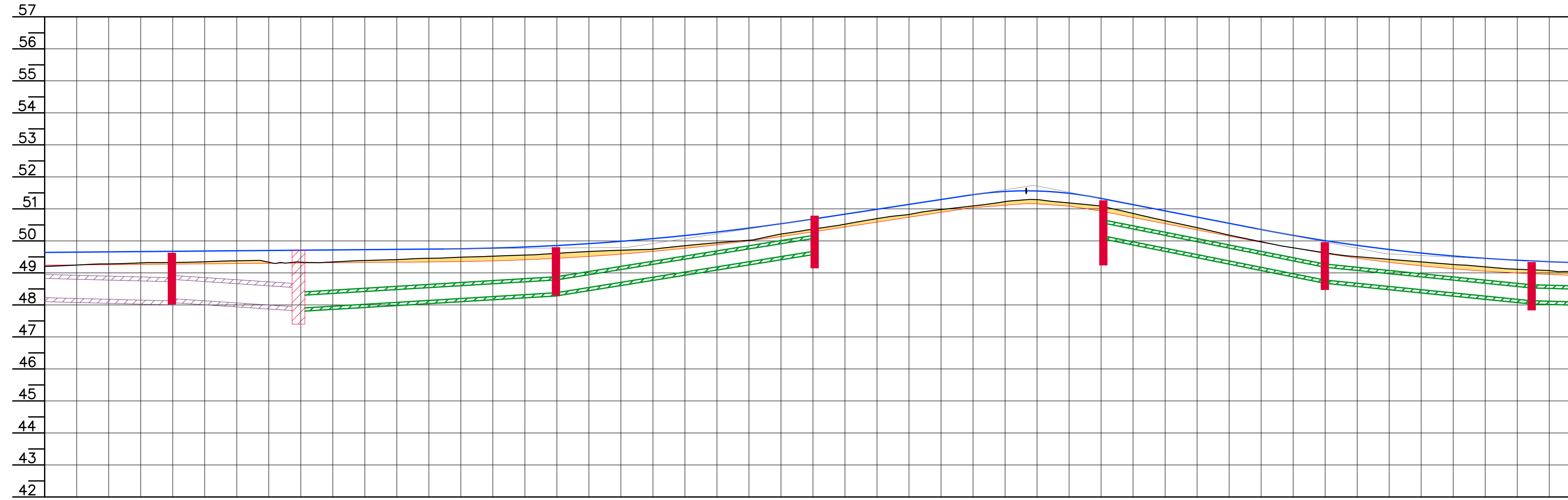
OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE DRENAGEM PLUVIAL
PROJETO	PLANTA BAIXA E PERFIL LONGITUDINAL
	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	03/06

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFOPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA	
	MEIO FIO DE CONCRETO
	CAIXA COLETORA TIPO II C/ GRELHA DE FERRO
	CAIXA DE LIGAÇÃO
	CAIXA COLETORA TIPO I C/ GRELHA DE FERRO
	BSTC Ø 0,3m - CONCRETO SIMPLES
	BSTC Ø 0,4m - CONCRETO SIMPLES
	BSTC Ø 0,6m - CONCRETO ARMADO
	BSTC Ø 0,8m - CONCRETO ARMADO
	BOCA DE BUEIRO - ALAS RETAS
	CADASTRO - CONSTRUÇÕES EXISTENTES
	POSTE EXISTENTE



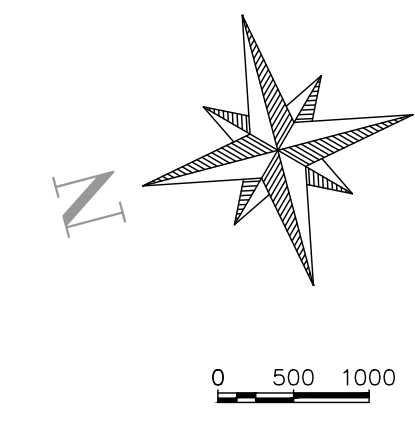
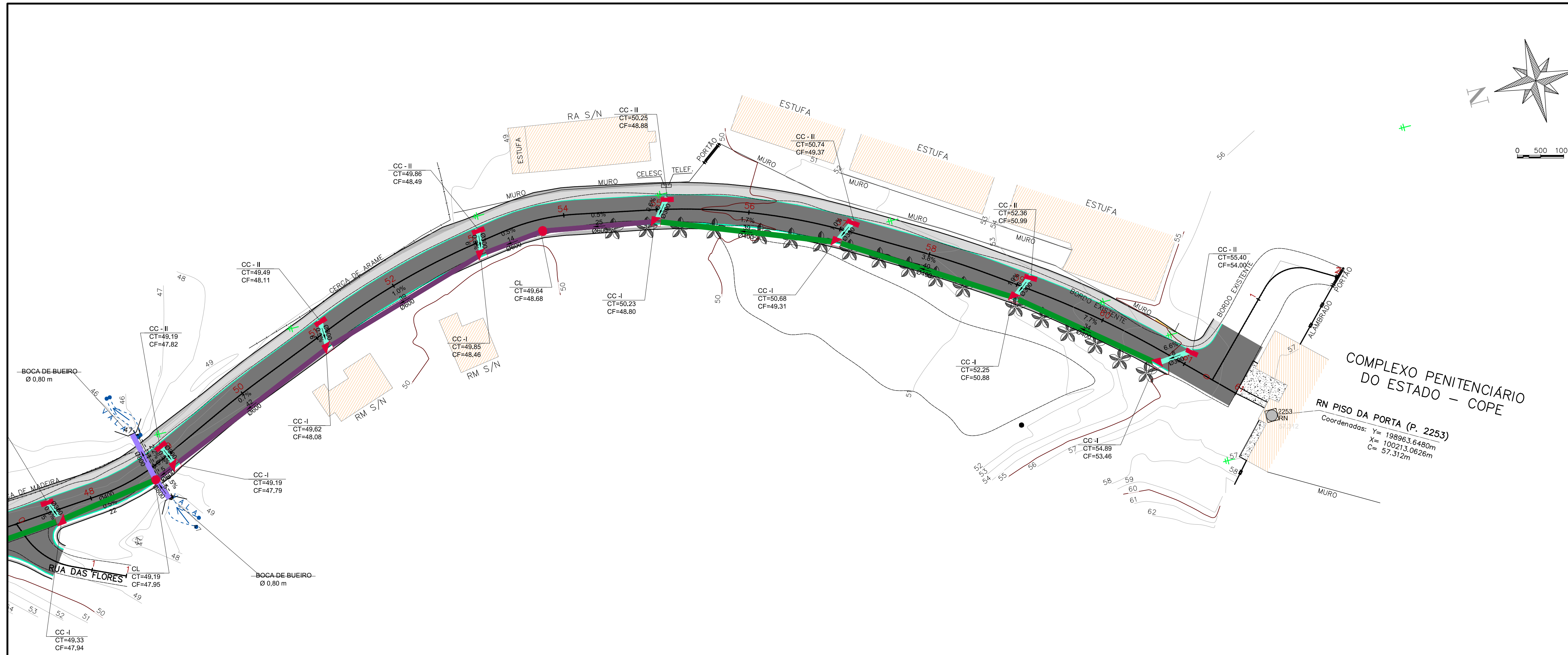
ESTACAS / COTA TERRENO	IDENTIFICAÇÃO DO PV	TAMPA PV / FUNDO PV	COMPRIMENTO	DECLIVIDADE	DIÂMETRO
48,640					
36+10,00 49,657					
37+00,00 49,675	CC - 1 - Ø 0,4m - 0,4	49,650 49,125	20,00m	1,31%	Ø400
37+80,00 49,692					
38+00,00 49,719	CL - Ø 0,8m - 0,1	49,706 47,807	39,21m	1,23%	Ø400
38+10,00 49,728					
40+70,5					
40+45,14 49,743	CC - 1 - Ø 0,4m - 1,5	49,706 48,376	39,42m	3,30%	Ø400
41+00,00					
41+00,00 50,167					
50+25,5					
50+27,6					
51+00,00					
51+00,00 50,297					
42+00,00					
50+77,9 50,681	CC - 1 - Ø 0,4m - 1,8	50,779 49,354	50,779m	4,90%	Ø400
50+82,2					
45+10,16 50,987					
40+00,00					
51+33,0					
43+10,00 51,545					
51,560					
44+00,00					
51,746	CC - 1 - Ø 0,4m - 1,7	51,756 49,344	34,48m	4,90%	Ø400
44+10,00					
51,133					
50,958					
50,744					
45+10,00					
50,356					
46+00,00					
50,007	CC - 1 - Ø 0,4m - 1,8	49,951 48,576	32,43m	2,90%	Ø400
49,953					
46+10,00					
49,738					
49,714					
47+00,00					
49,528					
47+10,00					
49,397	CC - 1 - Ø 0,4m - 1,9	49,390 47,915	22,30m	0,50%	Ø400
48+00,00					
48,312					

PROJETO DRENAGEM

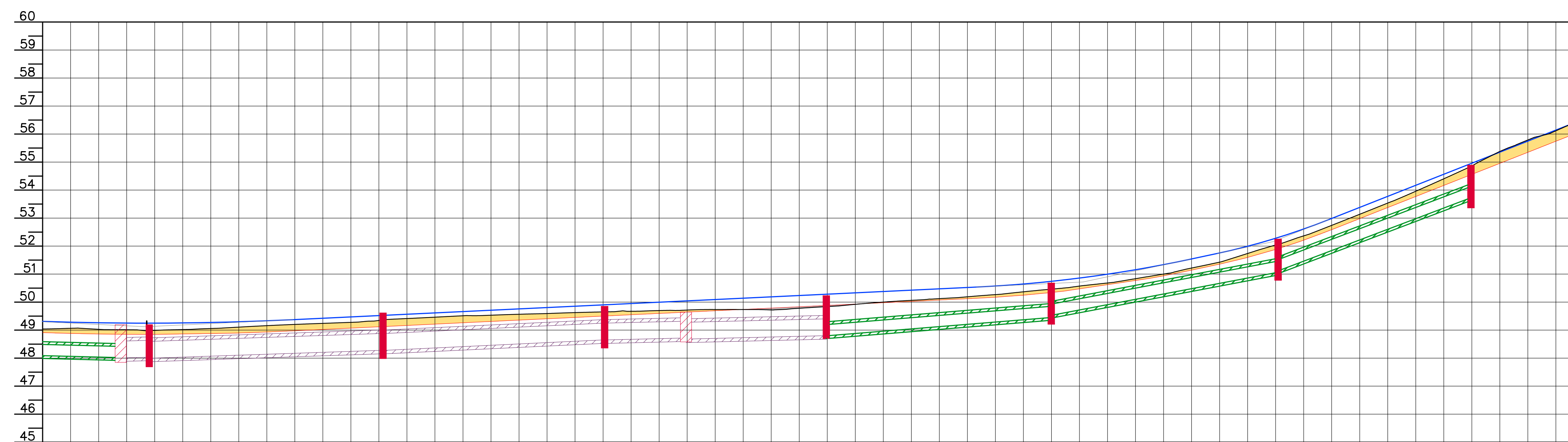
MUNICÍPIO	SÃO PEDRO DE ALCÂNTARA - SC
OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE DRENAGEM PLUVIAL PLANTA BAIXA E PERFIL LONGITUDINAL
PROJETO	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	04/06

ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA	
	MEIO FIO DE CONCRETO
	CAIXA COLETOIRA TIPO II C/ GRELHA DE FERRO
	CAIXA DE LIGAÇÃO
	CAIXA COLETOIRA TIPO I C/ GRELHA DE FERRO
	BSTC Ø 0,3m - CONCRETO SIMPLES
	BSTC Ø 0,4m - CONCRETO SIMPLES
	BSTC Ø 0,6m - CONCRETO ARMADO
	BSTC Ø 0,8m - CONCRETO ARMADO
	BOCA DE BUEIRO - ALAS RETAS
	CADASTRO - CONSTRUÇÕES EXISTENTES
	POSTE EXISTENTE



ESTACAS / COTA TERRENO	IDENTIFICAÇÃO DO PV	TAMPA PV / FUNDO PV	COMPRIMENTO DECLIVIDADE DIÂMETRO
49.300			
49.10.00			22.30m 0.50% Ø400
48.262	CL Ø 0,8m-02	48.262 / 47.352	5.30m 0.50% Ø600
48.249	CC-1 Ø 0,6m-05	48.249 / 47.785	41.54m 0.60% Ø600
48.249			
48.10.00			
48.274			38.79m 0.25% Ø600
48.289			
48.332			
48.390			
48.414			
51.00.00	CC-1 Ø 0,6m-06	48.616 / 48.053	14.03m 0.25% Ø600
48.573			
51.00.00	CC-1 Ø 0,6m-07	48.951 / 48.420	24.55m 0.50% Ø600
48.955			
51.10.00			
48.996			
54.00.00	CL Ø 0,6m-07	48.645 / 48.880	39.15m 1.57% Ø400
50.022			
50.117			
54.10.00			
50.187			
50.267			
50.283	CC-1 Ø 0,6m-08	50.231 / 48.757	40.15m 3.35% Ø400
50.10.00			
50.219			
50.474			
50.524			
51.00.00	CC-1 Ø 0,6m-20	50.884 / 49.339	33.92m 7.65% Ø400
50.795			
51.10.00			
50.997			
51.249			
51.339			
50.10.00			
51.755			
51.881			
50.10.00	CC-1 Ø 0,4m-21	52.252 / 50.676	33.92m 7.65% Ø400
52.055			
50.10.00			
52.987			
50.10.00			
53.776			
50.10.00			
54.955			
54.980			
54.980	CC-1 Ø 0,6m-22	54.897 / 53.458	33.92m 7.65% Ø400
55.354			
51.10.00			
56.363			

PROJETO DRENAGEM

MUNICÍPIO SÃO PEDRO DE ALCÂNTARA - SC

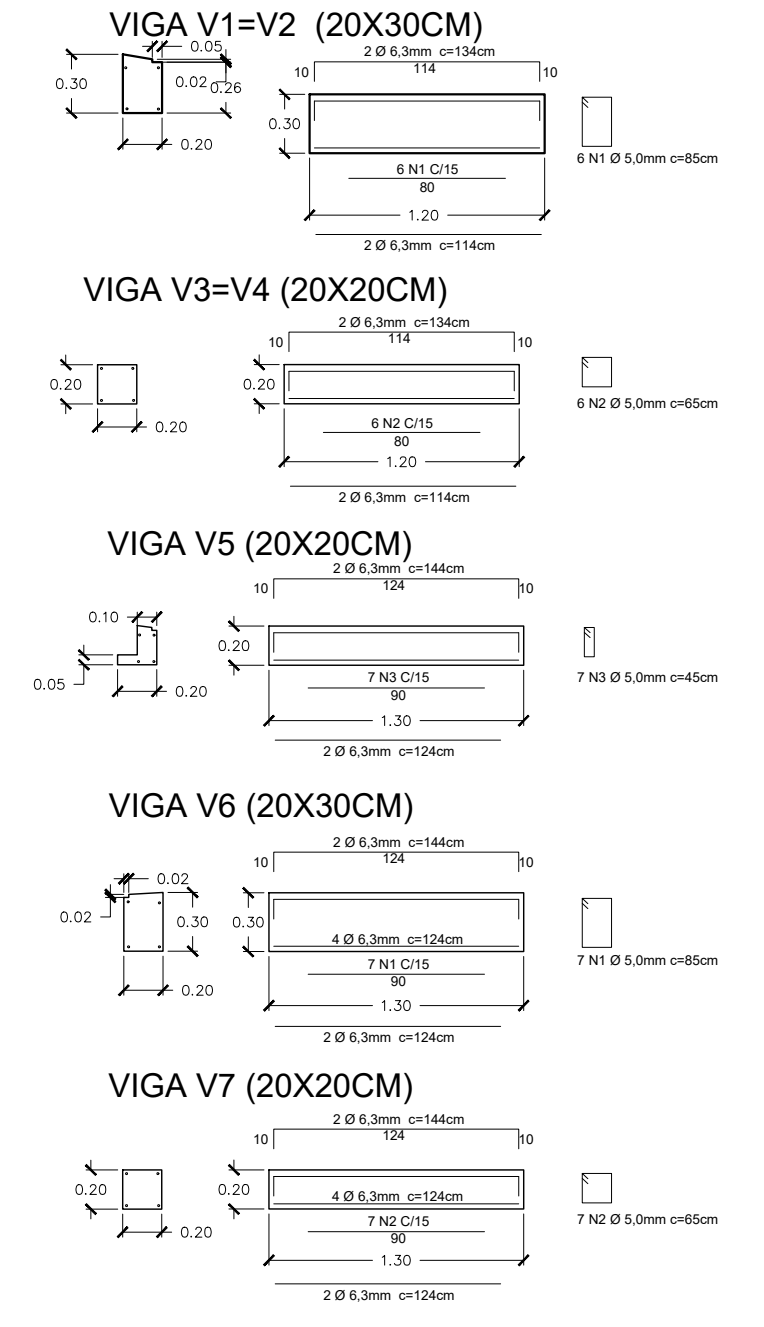
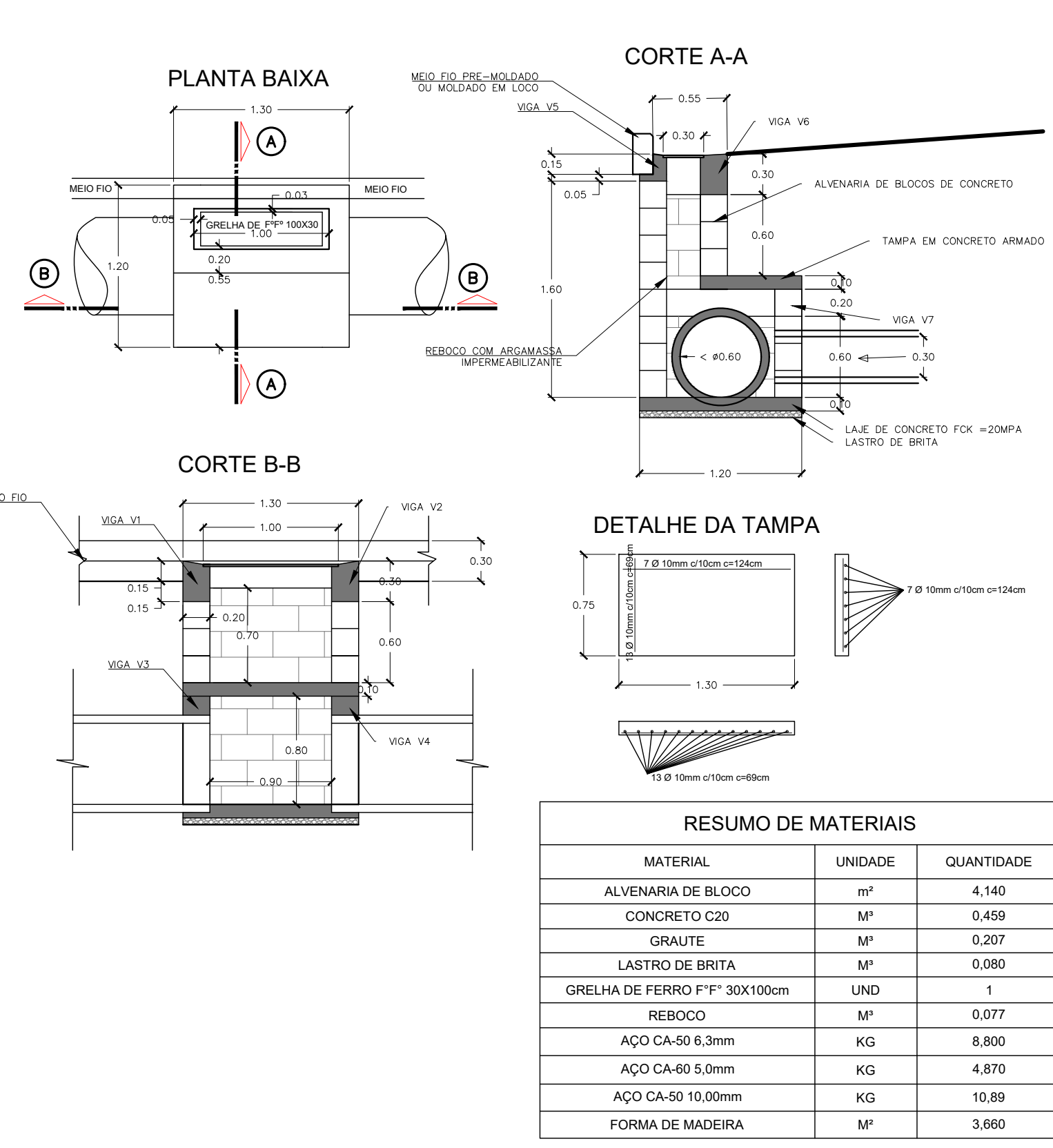
OBRA	CONTEÚDO
RUA ADRIANO ENNING	PROJETO DE DRENAGEM PLUVIAL
PROJETO	PLANTA BAIXA E PERFIL LONGITUDINAL
	APROVAÇÃO DA PREFEITURA
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	

REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	05/06

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFOPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA

CAIXA DE CAPTAÇÃO - 1 - GRANFPOLIS

COTAS EM METROS



CAIXA COLETORA - TIPO 2

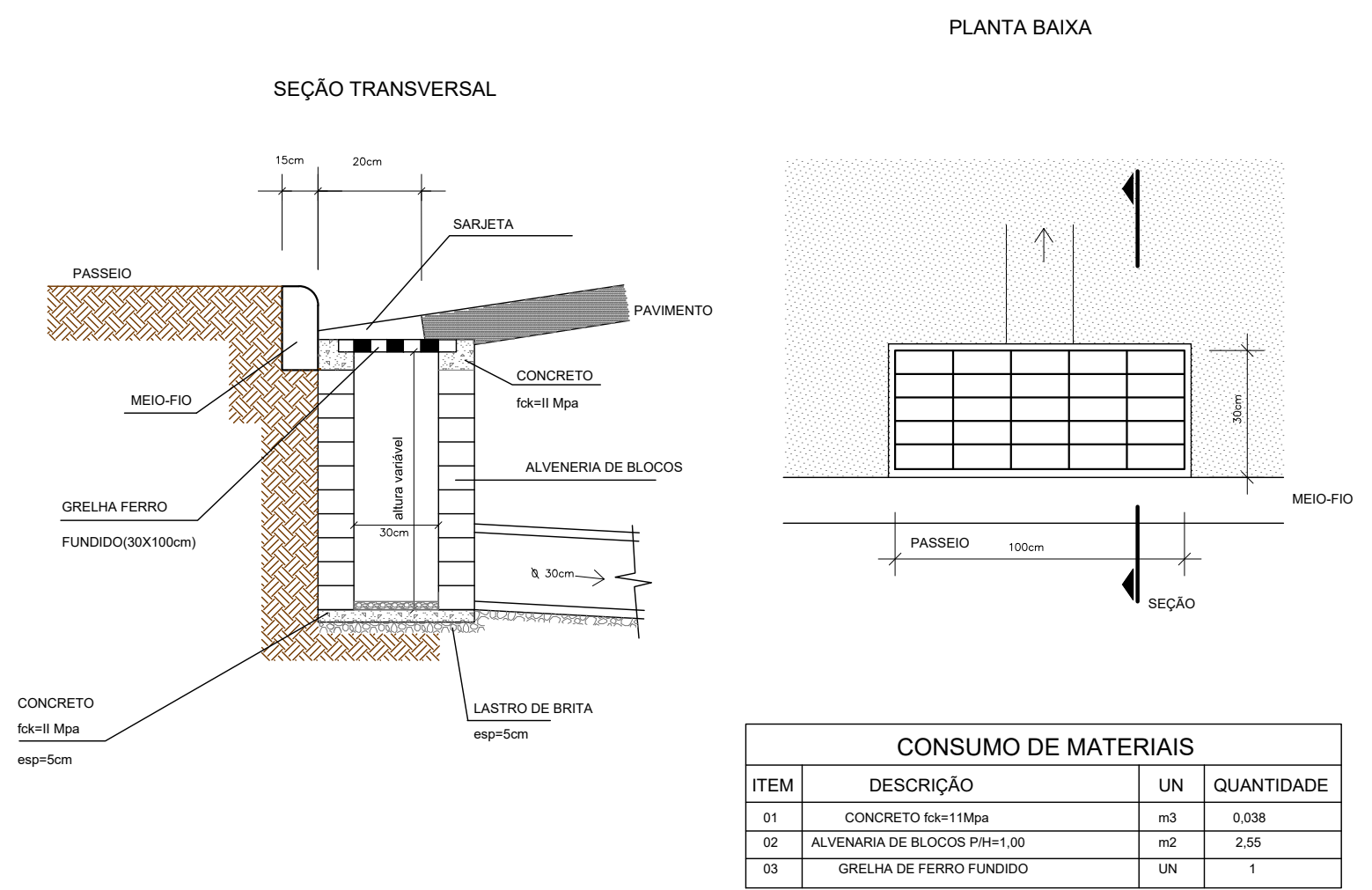


TABELA DE TUBOS DA REDE DRENAGEM (1)

TUBO	DN (m)	COMPRIMENTO (m)	DECLIVIDADE (%)
BSTC DN 0.30M CONCRETO - EST. 1220.11	0.30	8	6.6%
BSTC DN 0.30M CONCRETO - EST. 1182.19	0.30	6	1.9%
BSTC DN 0.30M CONCRETO - EST. 1142.37	0.30	6	1.0%
BSTC DN 0.30M CONCRETO - EST. 1102.40	0.30	6	0.6%
BSTC DN 0.30M CONCRETO - EST. 1061.60	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 1022.76	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 979.20	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 950.75	0.30	5	0.5%
BSTC DN 0.30M CONCRETO - EST. 918.43	0.30	6	1.0%
BSTC DN 0.30M CONCRETO - EST. 884.96	0.30	6	9.6%
BSTC DN 0.30M CONCRETO - EST. 842.82	0.30	6	1.3%
BSTC DN 0.30M CONCRETO - EST. 802.08	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 738.75	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 698.92	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 658.94	0.30	6	0.5%
BSTC DN 0.30M CONCRETO - EST. 629.63	0.30	6	0.7%
BSTC DN 0.30M CONCRETO - EST. 594.25	0.30	7	2.2%
BSTC DN 0.30M CONCRETO - EST. 536.94	0.30	6	8.3%
BSTC DN 0.30M CONCRETO - EST. 497.24	0.30	6	4.7%
BSTC DN 0.30M CONCRETO - EST. 466.39	0.30	6	4.5%
BSTC DN 0.30M CONCRETO - EST. 436.90	0.30	6	3.0%
BSTC DN 0.30M CONCRETO - EST. 302.37	0.30	6	2.0%
BSTC DN 0.30M CONCRETO - EST. 261.54	0.30	6	2.3%
BSTC DN 0.30M CONCRETO - EST. 203.91	0.30	9	3.6%
BSTC DN 0.30M CONCRETO - EST. 181.20	0.30	7	1.5%
BSTC DN 0.30M CONCRETO - EST. 141.23	0.30	5	2.0%
BSTC DN 0.30M CONCRETO - EST. 99.71	0.30	5	0.5%
BSTC DN 0.40M CONCRETO - EST. 559.01	0.40	38	4.0%
BSTC DN 0.40M CONCRETO - EST. 1139.96	0.40	39	1.7%
BSTC DN 0.40M CONCRETO - EST. 1180.44	0.40	40	3.8%
BSTC DN 0.40M CONCRETO - EST. 1214.84	0.40	34	7.7%
BSTC DN 0.40M CONCRETO - EST. 952.25	0.40	22	0.5%
BSTC DN 0.40M CONCRETO - EST. 919.95	0.40	32	2.0%
BSTC DN 0.40M CONCRETO - EST. 885.35	0.40	34	4.0%
BSTC DN 0.40M CONCRETO - EST. 799.85	0.40	39	1.2%

TABELA DE ESTRUTURAS DA REDE DRENAGEM (1)

NOME	COTAS	PROFUNDIDADE (m)
BOCA DE BUEIRO - EST. 62.57	CT= 50.45 CF= 49.63	0.50
BOCA DE BUEIRO - EST. 758.71	CT= 49.07 CF= 7???	???
BOCA DE BUEIRO - EST. 761.02	CT= 48.88 CF= 7???	???
BOCA DE BUEIRO - EST. 974.02	CT= 48.92 CF= 7???	0.65
BOCA DE BUEIRO - EST. 975.77	CT= 48.72 CF= 7???	0.65
CC - II - EST. 68.43	CT= 51.02 CF= 49.82	1.20
CC - II - EST. 72.09	CT= 50.93 CF= 49.73	1.20
CC - II - EST. 77.08	CT= 50.96 CF= 49.76	1.20
CC - II - EST. 99.71	CT= 51.94 CF= 50.56	1.38
CC - II - EST. 141.23	CT= 54.37 CF= 53.00	1.38
CC - II - EST. 181.20	CT= 59.29 CF= 57.82	1.38
CC - II - EST. 203.91	CT= 61.66 CF= 60.28	1.38
CC - II - EST. 261.54	CT= 66.58 CF= 65.21	1.38
CC - II - EST. 302.37	CT= 69.31 CF= 67.83	1.38
CC - II - EST. 436.90	CT= 67.20 CF= 65.82	1.38
CC - II - EST. 466.39	CT= 64.36 CF= 62.98	1.38
CC - II - EST. 497.24	CT= 60.76 CF= 59.39	1.38
CC - II - EST. 536.94	CT= 55.23 CF= 53.71	1.52
CC - II - EST. 594.25	CT= 50.87 CF= 49.34	1.52
CC - II - EST. 629.63	CT= 50.04 CF= 48.67	1.38
CC - II - EST. 658.94	CT= 49.67 CF= 48.30	1.38
CC - II - EST. 698.92	CT= 49.55 CF= 48.19	1.37
CC - II - EST. 738.75	CT= 49.82 CF= 48.24	1.38
CC - II - EST. 802.08	CT= 49.82 CF= 48.45	1.38
CC - II - EST. 842.82	CT= 50.71 CF= 49.34	1.38
CC - II - EST. 884.96	CT= 51.27 CF= 49.90	1.37
CC - II - EST. 918.43	CT= 50.01 CF= 48.83	1.38
CC - II - EST. 950.75	CT= 49.34 CF= 47.96	1.38
CC - II - EST. 979.20	CT= 49.19 CF= 47.82	1.38
CC - II - EST. 1022.76	CT= 49.49 CF= 48.11	1.38
CC - II - EST. 1061.60	CT= 49.86 CF= 48.49	1.38
CC - II - EST. 1102.40	CT= 50.25 CF= 48.88	1.38
CC - II - EST. 1142.37	CT= 50.74 CF= 49.37	1.38
CC - II - EST. 1182.19	CT= 52.36 CF= 50.99	1.38
CC - II - EST. 1220.11	CT= 55.40 CF= 54.00	1.40

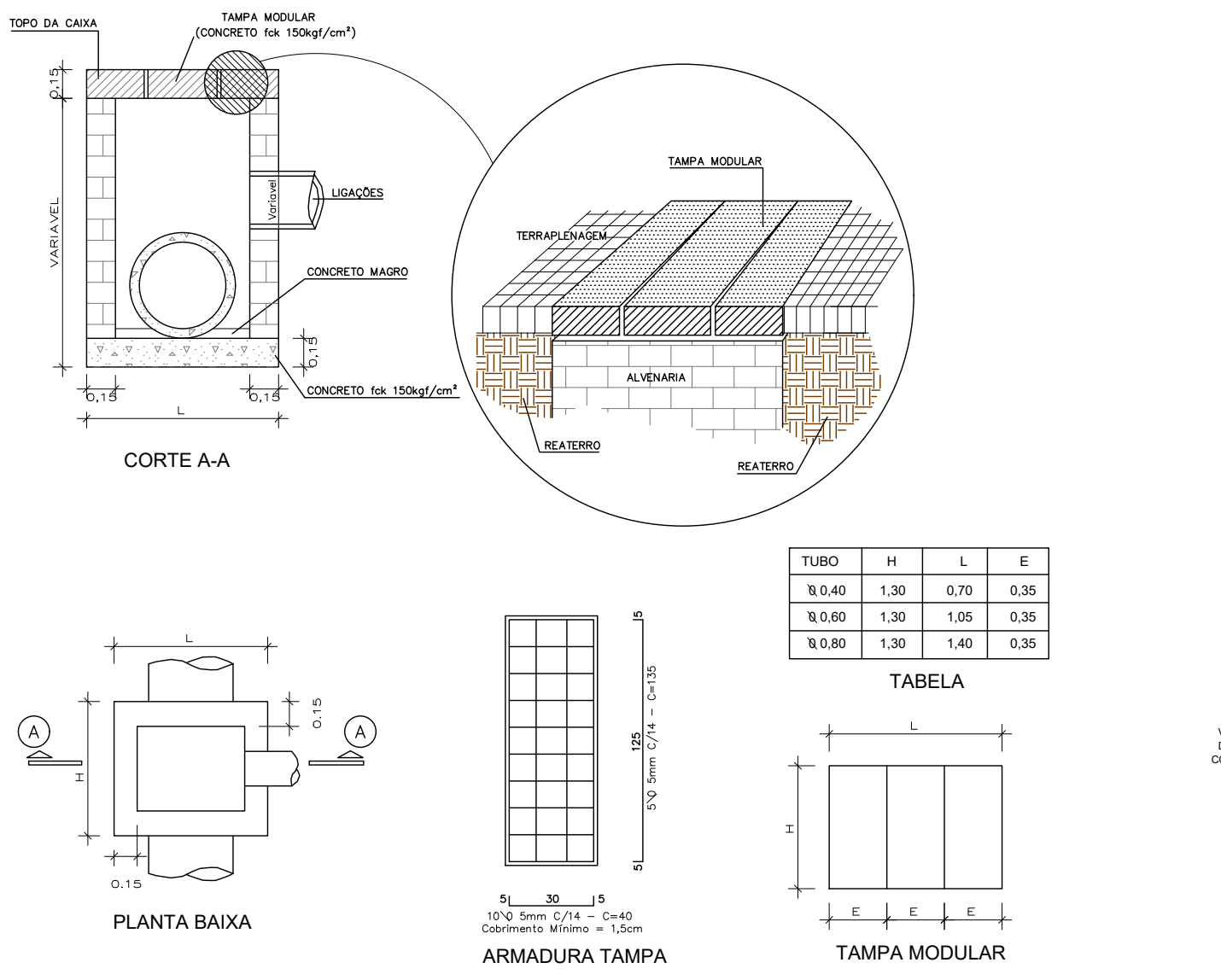
TABELA DE TUBOS DA REDE DRENAGEM (1)

TUBO	DN (m)	COMPRIMENTO (m)	DECLIVIDADE (%)
BSTC DN 0.40M CONCRETO - EST. 840.26	0.40	39	3.3%
BSTC DN 0.40M CONCRETO - EST. 660.27	0.40	41	0.5%
BSTC DN 0.40M CONCRETO - EST. 632.54	0.40	28	0.5%
BSTC DN 0.40M CONCRETO - EST. 597.05	0.40	36	1.9%
BSTC DN 0.40M CONCRETO - EST. 538.97	0.40	20	14.4%
BSTC DN 0.40M CONCRETO - EST. 499.37	0.40	39	13.3%
BSTC DN 0.40M CONCRETO - EST. 469.05	0.40	29	12.5%
BSTC DN 0.40M CONCRETO - EST. 438.79	0.40	30	11.4%
BSTC DN 0.40M CONCRETO - EST. 99.48	0.40	19	5.3%
BSTC DN 0.40M CONCRETO - EST. 139.68	0.40	40	4.6%
BSTC DN 0.40M CONCRETO - EST. 179.88	0.40	39	12.8%
BSTC DN 0.40M CONCRETO - EST. 199.93	0.40	18	10.8%
BSTC DN 0.40M CONCRETO - EST. 219.83	0.40	18	10.4%
BSTC DN 0.40M CONCRETO - EST. 259.98	0.40	40	8.5%
BSTC DN 0.40M CONCRETO - EST. 300.01	0.40	40	6.9%
BSTC DN 0.60M CONCRETO - EST. 979.02	0.60	5	0.5%
BSTC DN 0.60M CONCRETO - EST. 1020.75	0.60	42	0.7%
BSTC DN 0.60M CONCRETO - EST. 1060.28	0.60	39	1.0%
BSTC DN 0.60M CONCRETO - EST. 1074.79	0.60	14	0.5%
BSTC DN 0.60M CONCRETO - EST. 1099.84	0.60	25	0.5%
BSTC DN 0.60M CONCRETO - EST. 739.87	0.60	20	1.3%
BSTC DN 0.60M CONCRETO - EST. 700.49	0.60	40	0.5%
BSTC DN 0.60M CONCRETO - EST. 70.54	0.60	6	2.0%
BSTC DN 0.60M CONCRETO - EST. 81.96	0.60	14	0.5%
BSTC DN 0.80M CONCRETO - EST. 759.64	0.80	12	0.5%
BSTC DN 0.80M CONCRETO - EST. 758.71	0.80	4	3.4%
BSTC DN 0.80M CONCRETO - EST. 974.02	0.80	5	0.5%
BSTC DN 0.80M CONCRETO - EST. 973.94	0.80	11	2.2%

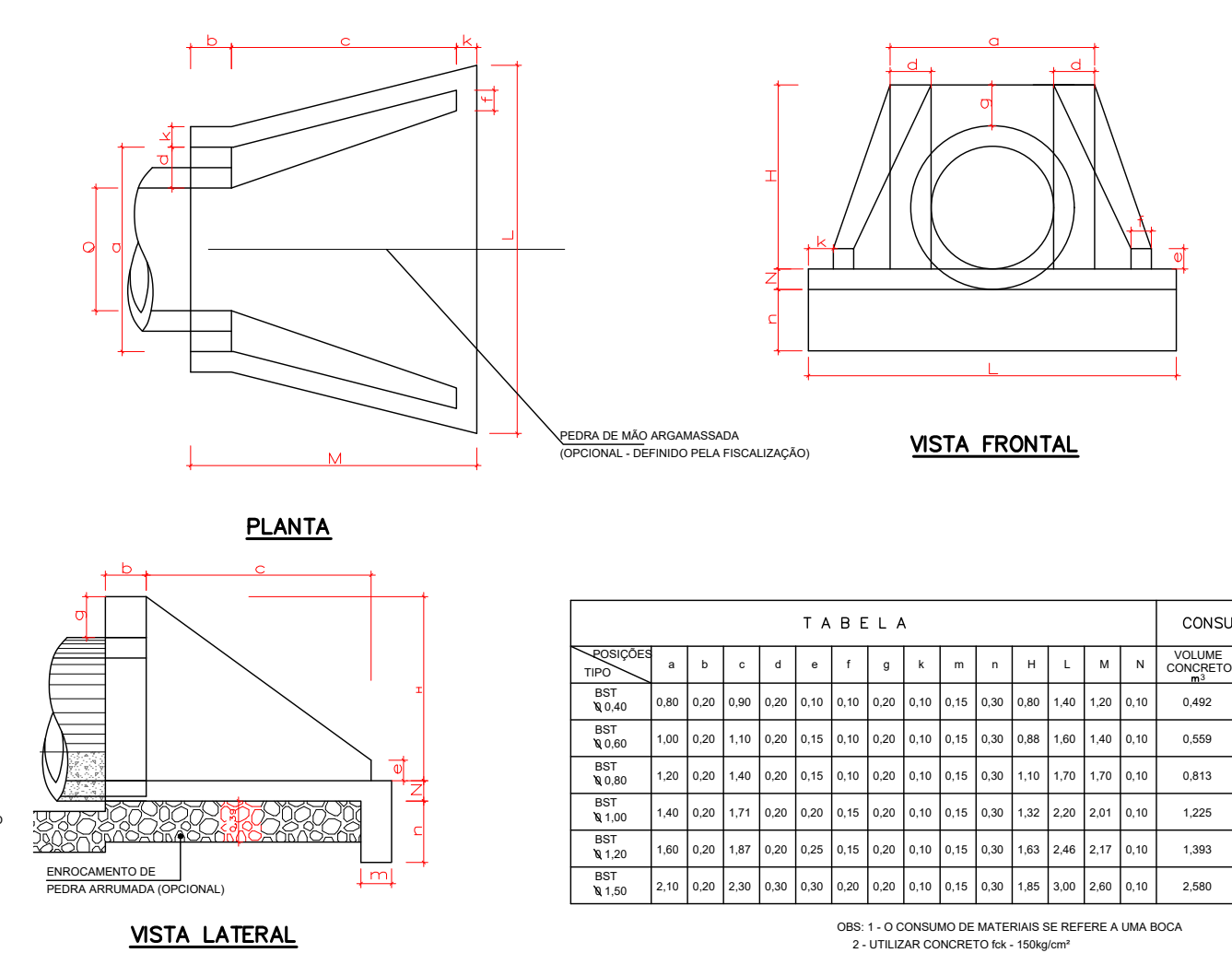
TABELA DE ESTRUTURAS DA REDE DRENAGEM (1)

NOME	COTAS	PROFUNDIDADE (m)
CC - I - EST. 70.54	CT= 51.14 CF= 49.63	1.51
CC - I - EST. 81.96	CT= 51.08 CF= 49.70	1.38
CC - I - EST. 99.48	CT= 51.94 CF= 50.54	1.40
CC - I - EST. 139.68	CT= 54.27 CF= 52.70	1.57
CC - I - EST. 179.88	CT= 59.19 CF= 57.75	1.44
CC - I - EST. 219.83	CT= 63.07 CF= 61.97	1.10
CC - I - EST. 259.98	CT= 66.45 CF= 65.03	1.38
CC - I - EST. 300.01	CT= 69.18 CF= 67.81	1.38
CC - I - EST. 438.79	CT= 67.02 CF= 65.65	1.38
CC - I - EST. 469.05	CT= 64.09 CF= 62.50	1.59
CC - I - EST. 499.37	CT= 60.48 CF= 58.13	1.59
CC - I - EST. 538.97	CT= 54.78 CF= 53.18	1.60
CC - I - EST. 559.01	CT= 52.37 CF= 50.78	1.58
CC - I - EST. 597.05	CT= 50.58 CF= 49.16	1.39
CC - I - EST. 632.54	CT= 50.00 CF= 48.57	1.43
CC - I - EST. 660.27	CT= 49.66 CF= 48.27	1.39
CC - I - EST. 700.49	CT= 49.55 CF= 48.15	1.40
CC - I - EST. 739.87	CT= 49.62 CF= 48.13	1.49
CC - I - EST. 799.85	CT= 49.80 CF= 48.38	1.42
CC - I - EST. 840.26	CT= 50.78 CF= 49.25	1.53
CC - I - EST. 885.35	CT= 51.26 CF= 49.34	1.91
CC - I - EST. 919.95	CT= 49.95 CF= 48.58	1.38
CC - I - EST. 952.25	CT= 49.33 CF= 47.94	1.39
CC - I - EST. 979.02	CT= 49.19 CF= 47.79	1.41
CC - I - EST. 1020.75	CT= 49.62 CF= 48.08	1.53
CC - I - EST. 1060.28	CT= 49.85 CF= 48.46	1.39
CC - I - EST. 1099.84	CT= 50.23 CF= 48.80	1.43
CC - I - EST. 1139.96	CT= 50.68 CF= 49.31	1.38
CC - I - EST. 1180.44	CT= 52.25 CF= 50.88	1.38
CC - I - EST. 1214.84	CT= 54.89 CF= 53.46	1.43
CL - EST. 199.93	CT= 60.75 CF= 59.96	0.79
CL - EST. 759.64	CT= 49.71 CF= 47.50	2.21
CL - EST. 973.94	CT= 49.19 CF= 47.85	1.24
CL - EST. 1074.79	CT= 49.64 CF= 48.68	0.96

CAIXA DE LIGAÇÃO



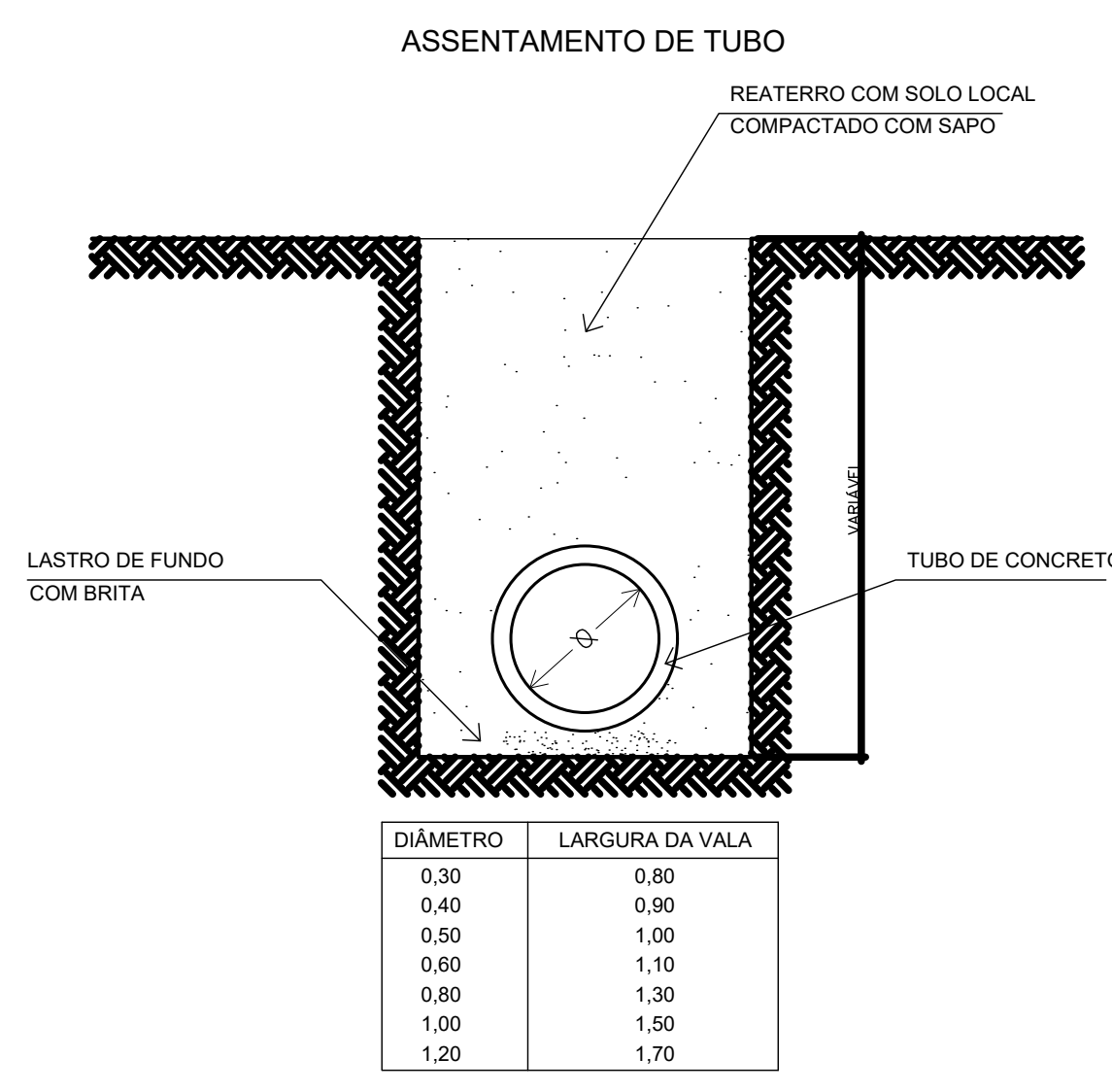
SAÍDA DE BUEIRO



TABELA

TIPO	a	b	c	d	e	f	g	h	i	j	k	l	m	n	H	L	N		
BST	0.80	0.20	0.90	0.20	0.10	0.10	0.20	0.10	0.10	0.10	0.20	0.80	1.60	1.40	1.20	0.10	0.402	3.75	0.297
BST	1.00	0.20	1.10	0.20	0.15	0.15	0.20	0.15	0.15	0.15	0.20	0.80	1.60	1.40	1.20	0.10	0.659	4.27	0.338
BST	1.20	0.20	1.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	1.00	1.70	1.70	1.20	0.10	0.813	4.88	0.440
BST	1.40	0.20	1.50	0.20	0.25	0.25	0.25	0.25	0.25	0.25	0.25	1.30	2.20	2.20	1.20	0.10	1.225	6.96	0.686
BST	1.60	0.20	1.70	0.20	0.30	0.30	0.30	0.30	0.30	0.30	0.30	1.60	2.40	2.40	1.20	0.10	1.393	9.52	0.836
BST	1.80	0.20	1.90	0.20	0.35	0.35	0.35	0.35	0.35	0.35	0.35	1.85	2.60	2.60	1.20	0.10	2.580	14.32	1.325

01 - O CONSUMO DE MATERIAIS SE REFERE A UMA BOCA
2 - UTILIZAR CONCRETO fck = 150kg/cm²



PROJETO DE DRENAGEM

MUNICÍPIO: SÃO PEDRO DE ALCÂNTARA - SC

OBRA: RUA ADRIANO ENNING

PROJETO: VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3

CONTEÚDO: PROJETO DE DRENAGEM PLUVIAL, DETALHES CONSTRUTIVOS E TABELAS DE QUANTIDADES, APROVAÇÃO DA PREFEITURA

REVISÃO: versão inicial

DATA: MAR/2022

PRANCHA: 06/06

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA



LEGENDA

- POSTE EXISTENTE
- CADASTRO
- MEIO-FIO 13X15X30X100cm
- PAVIMENTO PROJETADO
- CORTE
- ATERRIO
- BORDOS EXISTENTES
- EIXO DA PISTA DE TRÁFEGO
- PASSEIO EM CONCRETO
- PISO TÁTIL DIRECIONAL
- PISO TÁTIL ALERTA
- PLACA R-1 PARADA OBRIGATORIA
- PLACA A32-b TRAVESSIA SINALIZADA DE PEDESTRES
- PLACA R-19 VELOCIDADE PERMITIDA
- A-2A E A-2B CURVA A ESQUERDA/DIREITA
- LFO -1 - LINHA DUPLA CONTÍNUA COM TACHA A CADA 8M

SINALIZAÇÃO E PASSEIOS

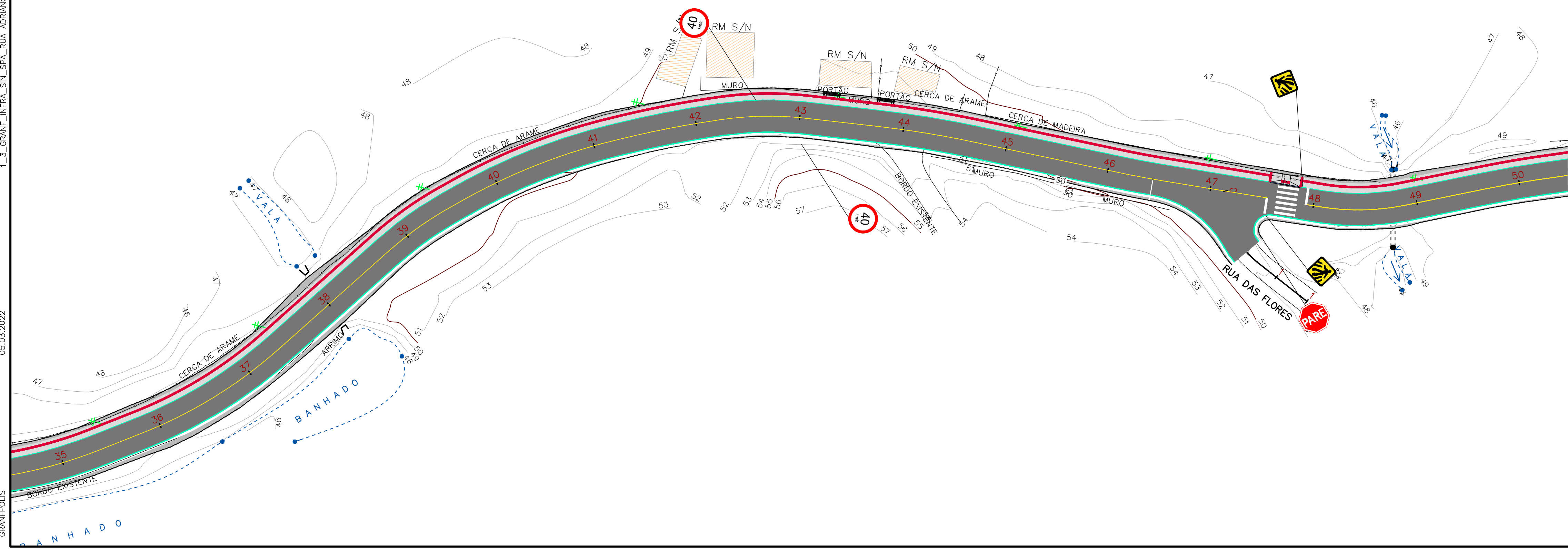
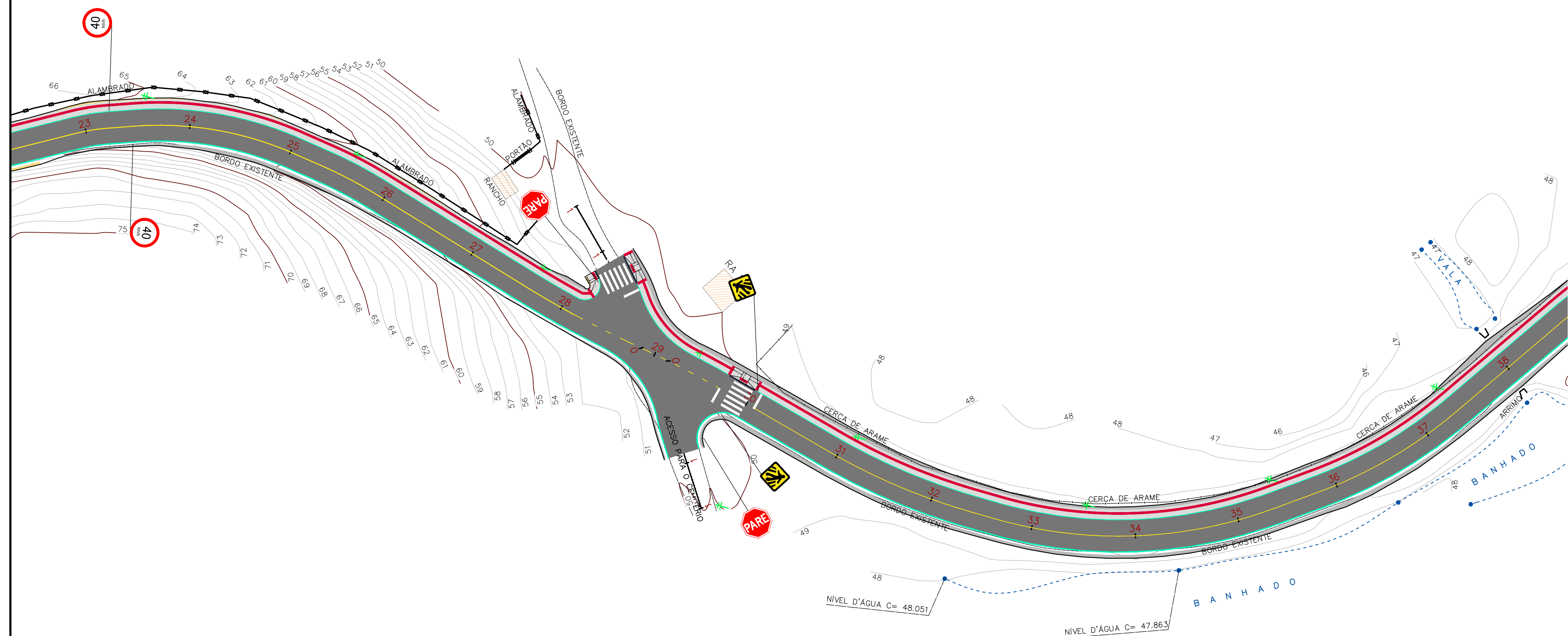
MUNICÍPIO		SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	RUA ADRIANO ENNING	CONTEÚDO	PROJETO DE SINALIZAÇÃO HORIZONTAL E VERTICAL E DE PASSEIOS PLANTA BAIXA
PROJETO	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	APROVAÇÃO DA PREFEITURA	
REVISÃO	versão inicial	DATA	MAR/2022
		PRANCHA	01/03

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05.03.2022
GRANFPOLIS

1_3_GRANF_INFRA_SIN_SPA_RUA_ADRIANO_ENNING.dwg

05.03.2022

GRANFOPOLIS

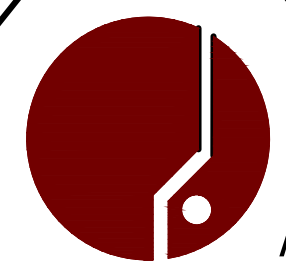


LEGENDA

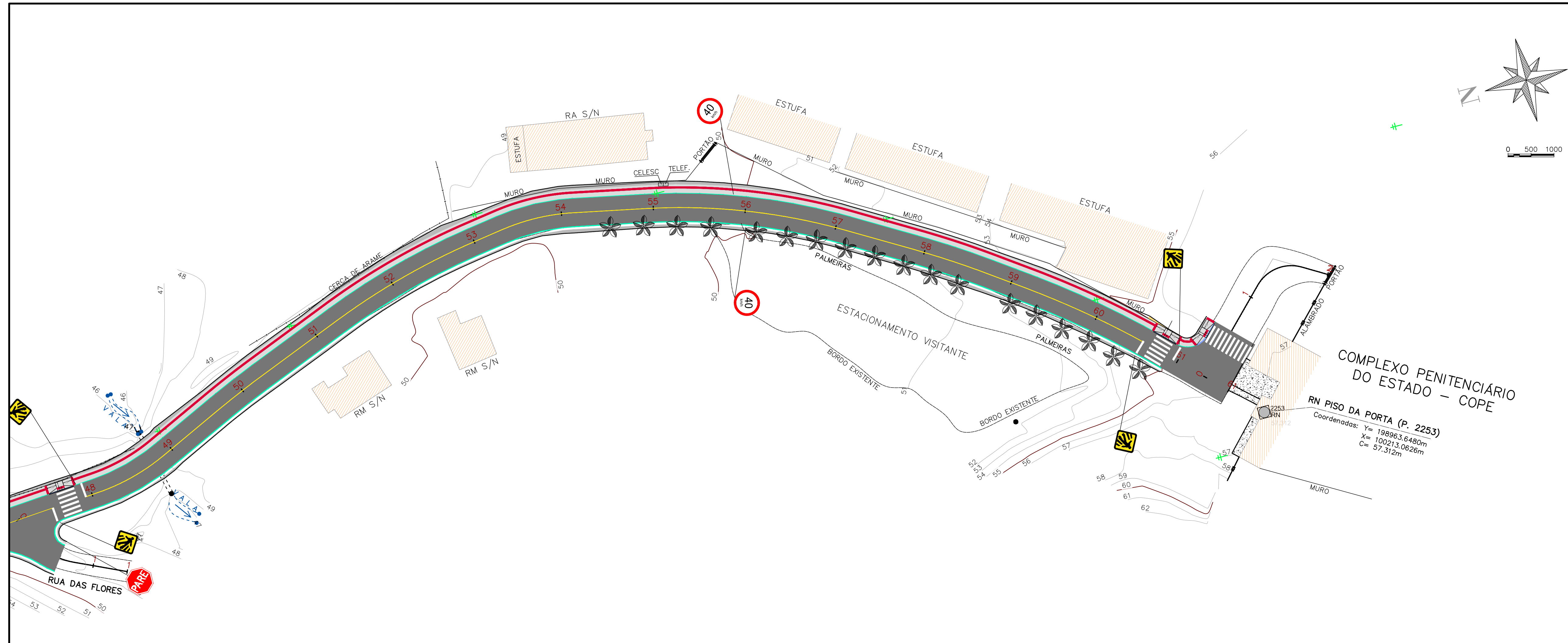
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- CADASTRO
- MEIO-FIO 13X15X30X100cm
- PAVIMENTO PROJETADO
- CORTE
- ATERRO
- BORDOS EXISTENTES
- EIXO DA PISTA DE TRÁFEGO
- PASSEIO EM CONCRETO
- PISO TÁTIL DIRECIONAL
- PISO TÁTIL ALERTA
- PLACA R-1 PARADA OBRIGATORIA
- PLACA A32-b TRAVESSIA SINALIZADA DE PEDESTRES
- PLACA R-19 VELOCIDADE PERMITIDA
- A-2A E A-2B CURVA A ESQUERDA/DIREITA
- LFO -1 - LINHA DUPLA CONTÍNUA COM TACHA A CADA 8M

SINALIZAÇÃO E PASSEIOS

MUNICÍPIO		SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	RUA ADRIANO ENNING		
CONTEÚDO	PROJETO DE SINALIZAÇÃO HORIZONTAL E VERTICAL E DE PASSEIOS PLANTA BAIXA		
PROJETO	APROVAÇÃO DA PREFEITURA		
REVISÃO		DATA	PRANCHA
versão inicial		MAR/2022	02/03
VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3			



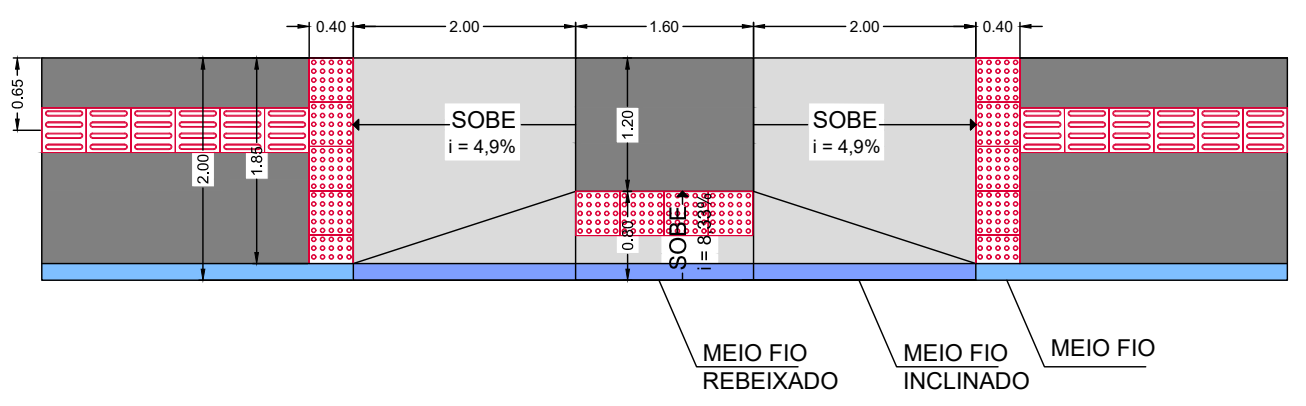
ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA



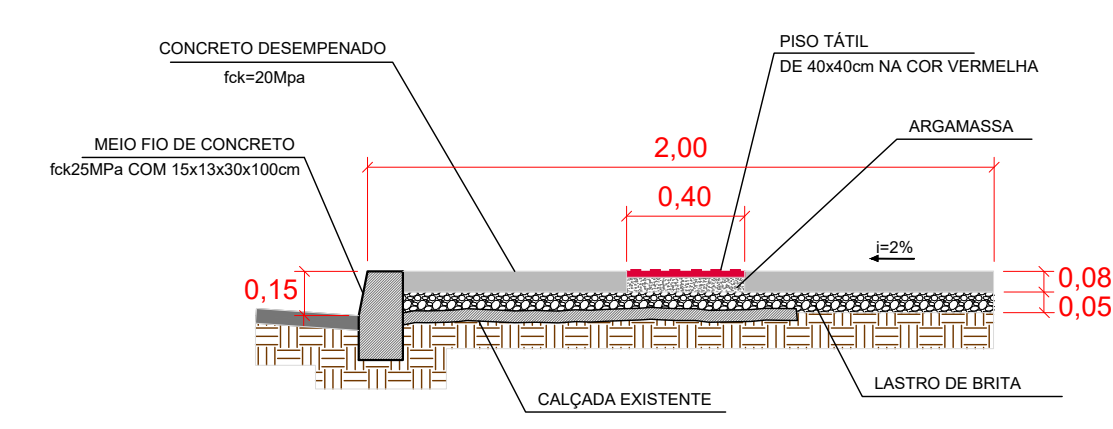
LEGENDA

- POSTE EXISTENTE
- CADASTRO
- MEIO-FIO 13X15X30X100cm
- PAVIMENTO PROJETADO
- CORTE
- ATERRO
- BORDOS EXISTENTES
- EIXO DA PISTA DE TRÁFEGO
- PASSEIO EM CONCRETO
- PISO TÁTIL DIRECIONAL
- PISO TÁTIL ALERTA
- PLACA R-1 PARADA OBRIGATORIA
- PLACA A32-4 TRAVESSIA SINALIZADA DE PEDESTRES
- PLACA R-19 VELOCIDADE PERMITIDA
- A-2A E A-2B CURVA A ESQUERDA/DIREITA
- LFO - 1 - LINHA DUPLA CONTÍNUA COM TACHA A CADA 8M

PLANTA BAIXA - REBAIXO DE PASSEIOS PARA TRAVESSIA DE PEDESTRES



SEÇÃO DE PASSEIO NORMAL



Forma	Cor
Obrigaç/ restrição	Fundo Branco
Proibição	Simbolo Preta
	Tarja Vermelha
	Orla Vermelha
	Letra Preta

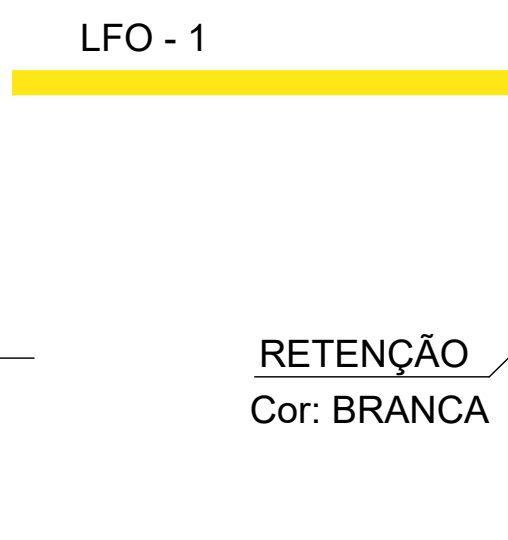
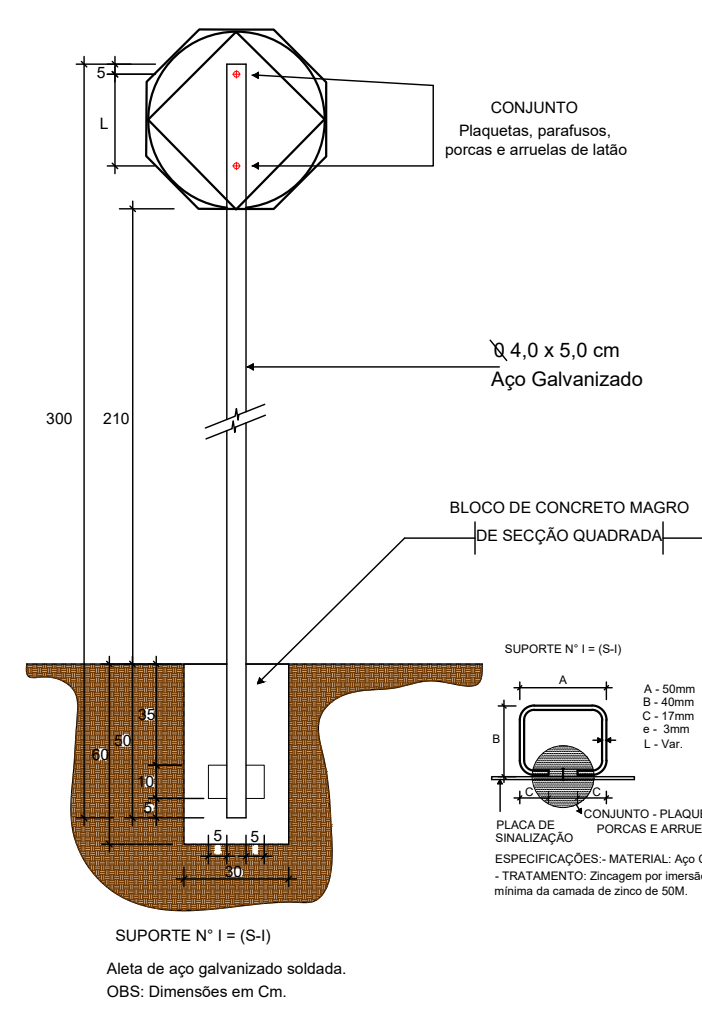
Via	Diâmetro (m)	Tarja (m)	Orla (m)
Urbana	0,50	0,050	0,050

Forma	Cor
	Fundo Amarelo
	Simbolo Preta
	Orla interna Preta
	Orla externa Amarela
	Letra Preta

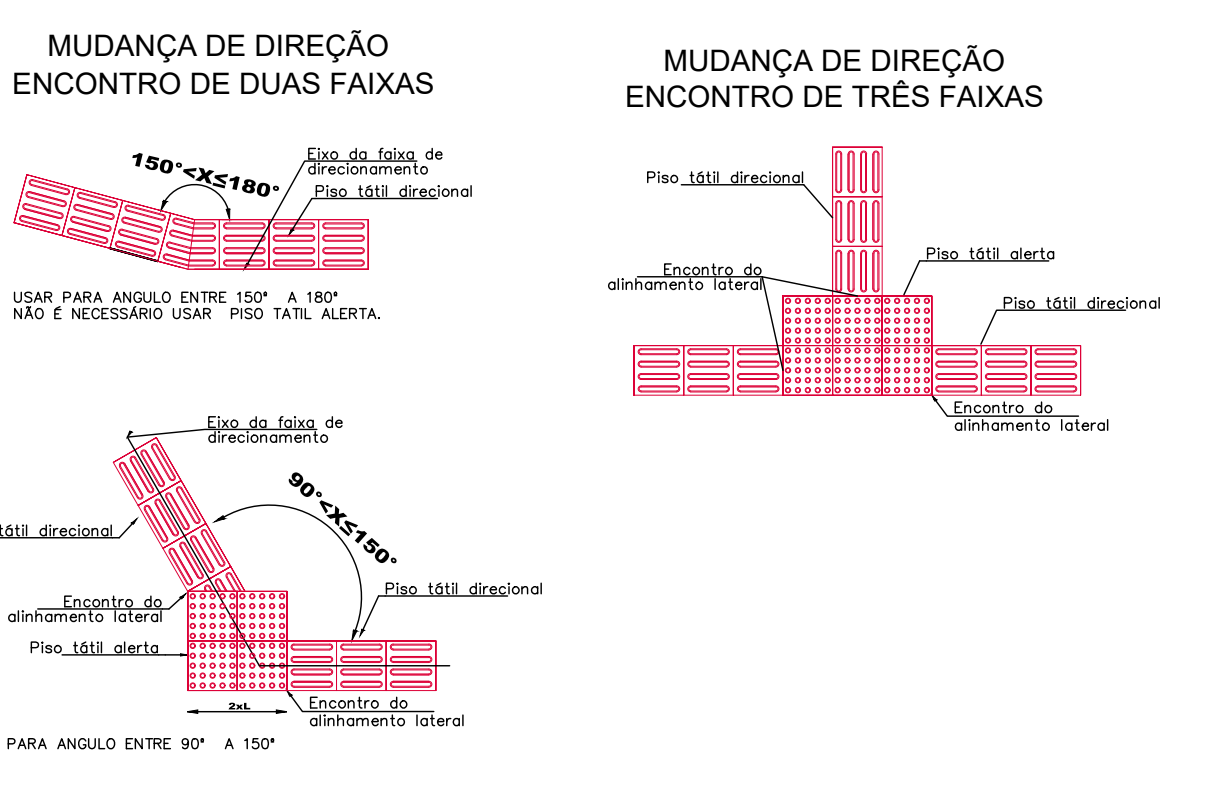
Via	Lado (m)	Orla interna min (m)	Orla externa min (m)
Urbana	0,50	0,010	0,020

Sinal	Código	Cor
Forma	R-1	Fundo Vermelha
		Simbolo Branca
		Orla interna Branca
		Orla externa Vermelha
		Letra Branca

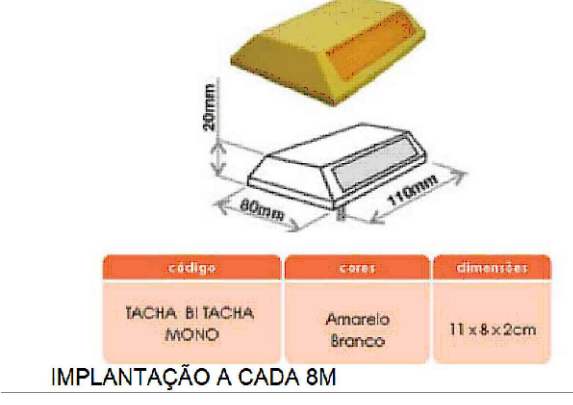
Via	Lado (m)	Orla interna (m)	Orla externa (m)
Urbana	0,248	0,02	0,01



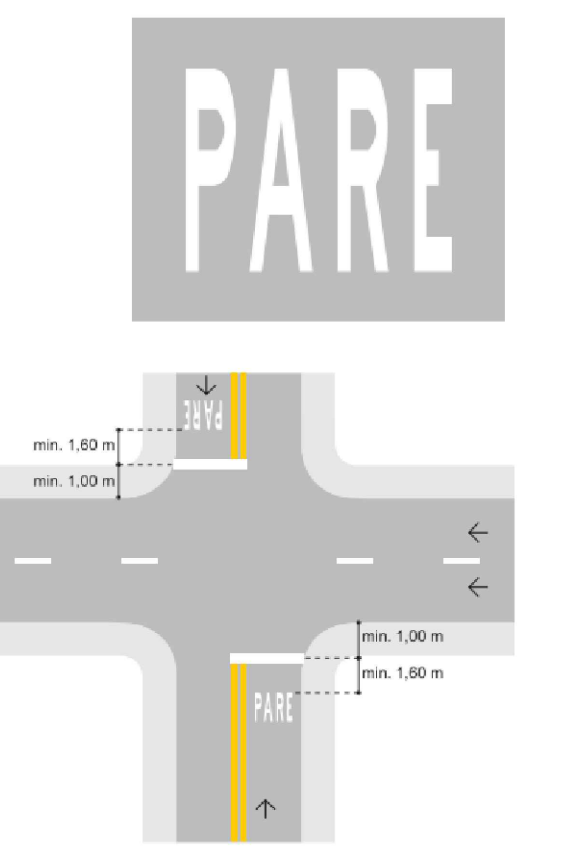
MUDANÇA DE DIREÇÃO EM SINALIZAÇÃO TÁTIL



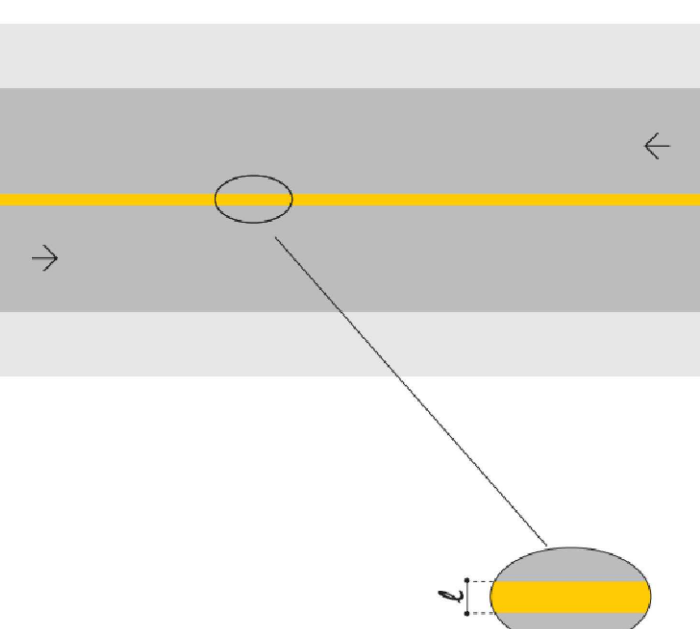
TACHA BIDIRECIONAL REFLETIVA AMARELA



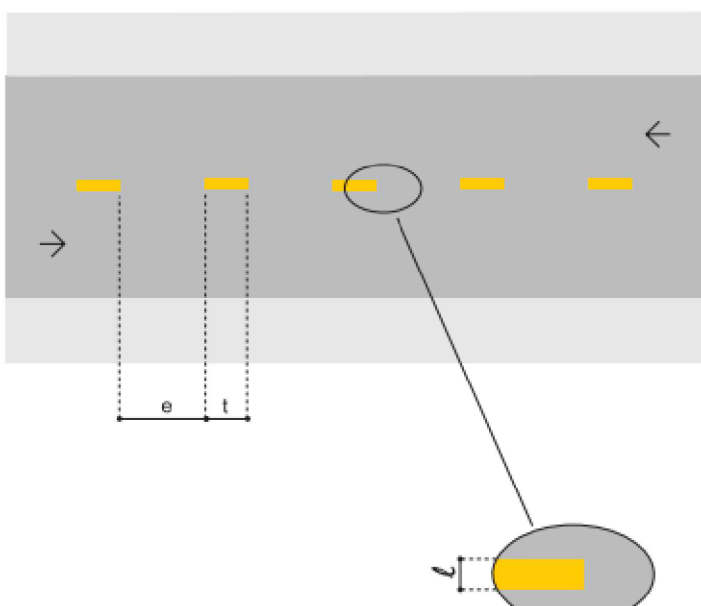
Legenda "PARE"



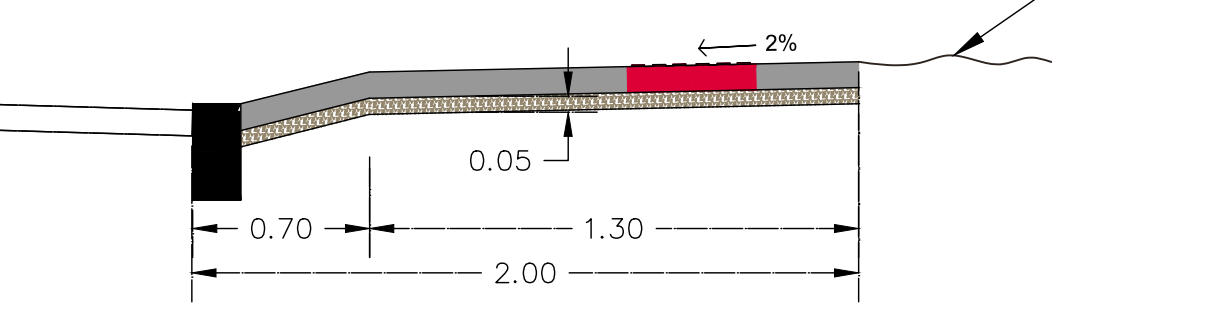
LFO-1 - L = 10CM



LFO-2 - CADÊNCIA 1:2



REBAIXO PARA ACESSO DE VEÍCULOS



SINALIZAÇÃO E PASSEIOS

MUNICÍPIO	SÃO PEDRO DE ALCÂNTARA - SC	
OBRA	RUA ADRIANO ENNING	
PROJETO	VINÍCIUS FELLER Engenheiro Civil CREA/SC 147.982-3	
CONTEÚDO	PROJETO DE SINALIZAÇÃO HORIZONTAL E VERTICAL E DE PASSEIOS PLANTA BAIXA E DETALHES CONSTRUTIVOS APROVAÇÃO DA PREFEITURA	
REVISÃO	DATA	PRANCHA
versão inicial	MAR/2022	03/03

ASSOCIAÇÃO DOS MUNICÍPIOS DA REGIÃO DA GRANDE FLORIANÓPOLIS "GRANFPOLIS" ASSESSORIA DE ENGENHARIA E ARQUITETURA

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GRANFPOLIS