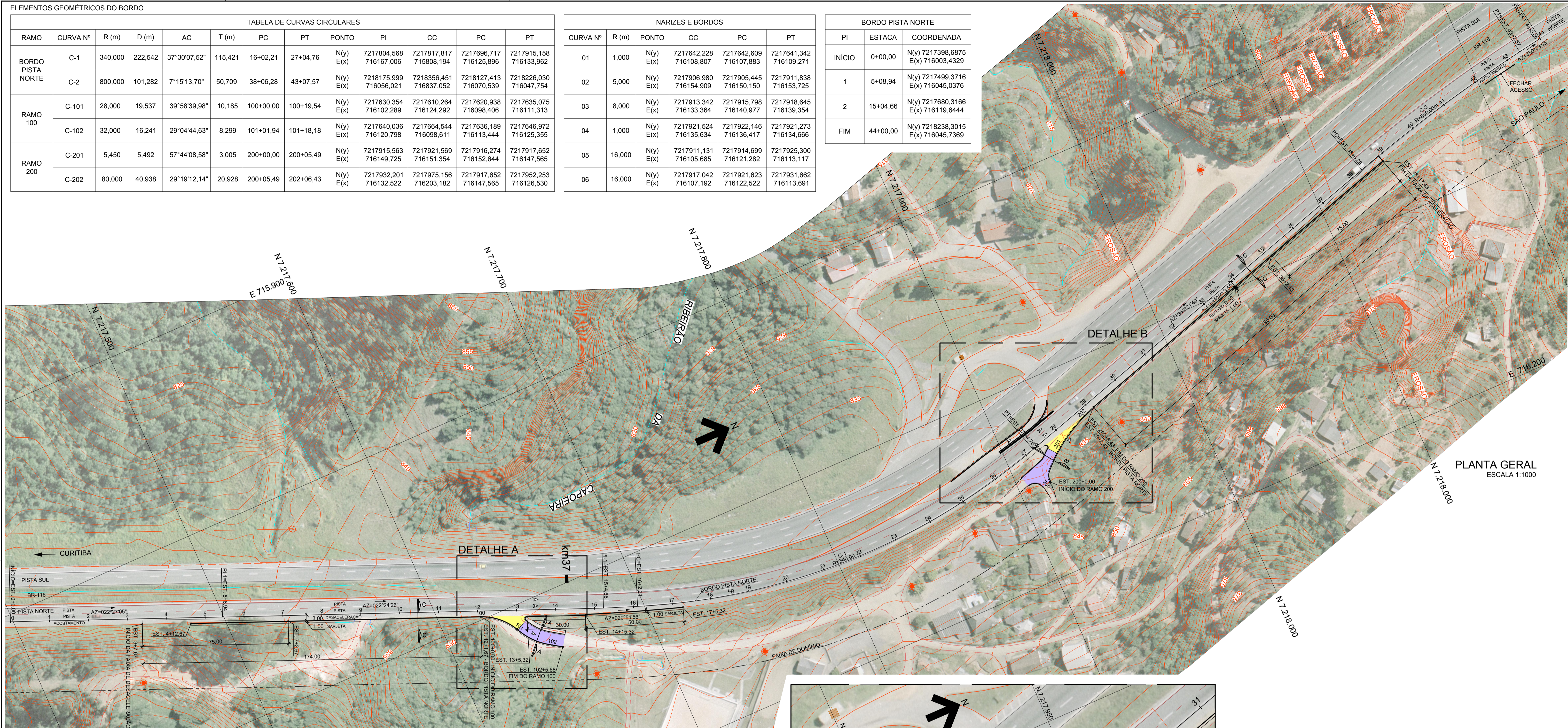


ELEMENTOS GEOMÉTRICOS DO BORDO

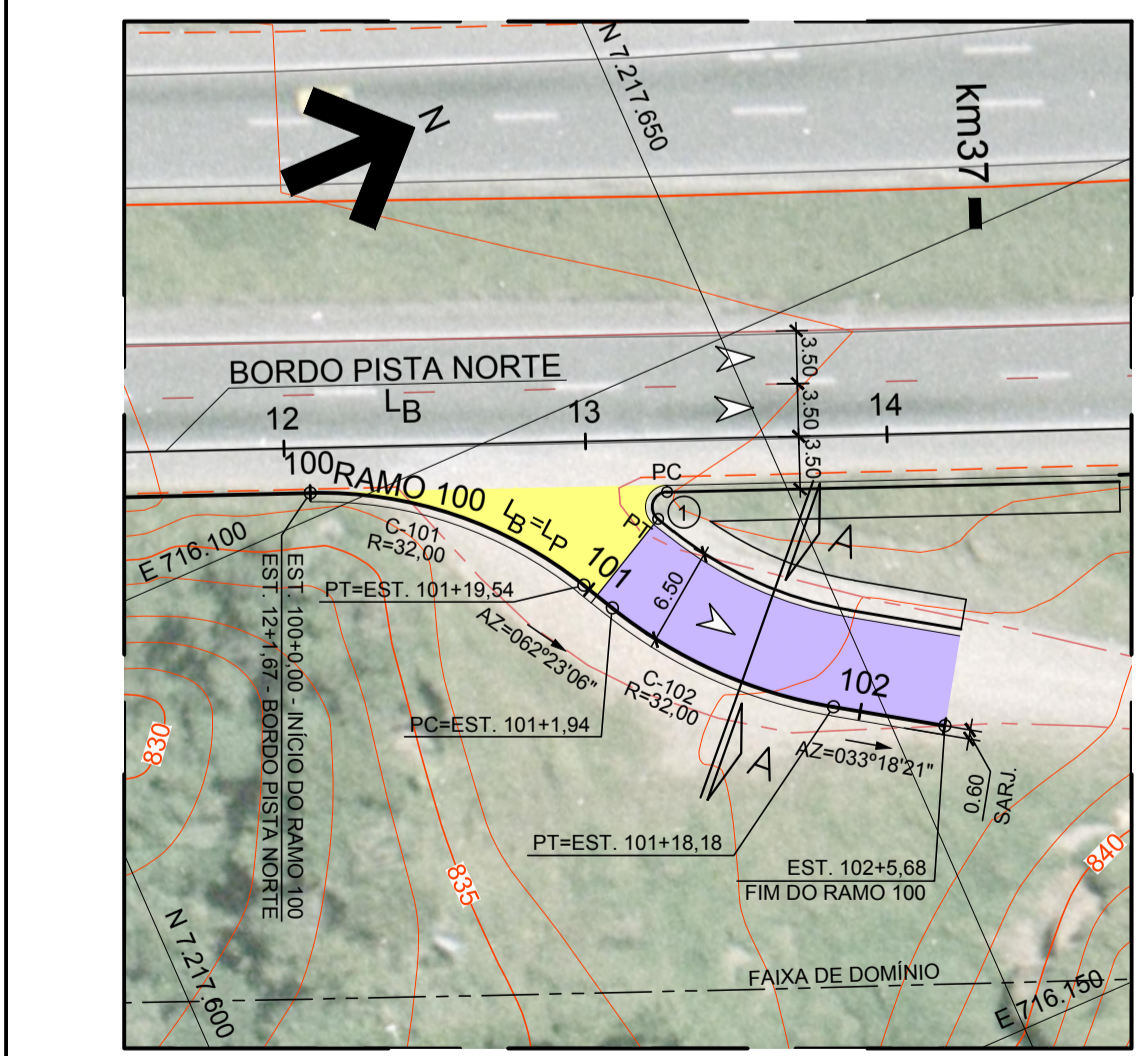
TABELA DE CURVAS CIRCULARES												
RAMO	CURVA Nº	R (m)	D (m)	AC	T (m)	PC	PT	PONTO	PI	CC	PC	PT
BORDO PISTA NORTE	C-1	340.000	222.542	37°30'07.52"	115.421	16+02.21	27+04.76	N(y) E(x)	7217804.568 716167.006	7217817.817 715808.194	7217696.717 716125.896	7217915.158 716133.962
	C-2	800.000	101.282	7°15'13.70"	50.709	38+06.28	43+07.57	N(y) E(x)	7218175.999 716056.021	7218356.451 716837.052	7218127.413 716070.539	7218226.030 716047.754
RAMO 100	C-101	28.000	19.537	39°58'39.98"	10.185	100+00.00	100+19.54	N(y) E(x)	7217630.354 716102.289	7217610.264 716124.292	7217620.938 716098.406	7217635.075 716111.313
	C-102	32.000	16.241	29°04'44.63"	8.299	101+01.94	101+18.18	N(y) E(x)	7217640.036 716120.798	7217664.544 716098.611	7217636.189 716125.444	7217646.972 716125.355
RAMO 200	C-201	5.450	5.492	57°44'08.58"	3.005	200+00.00	200+05.49	N(y) E(x)	7217915.563 716149.725	7217921.569 716151.354	7217916.274 716152.644	7217917.652 716147.565
	C-202	80.000	40.938	29°19'12.14"	20.928	200+05.49	202+06.43	N(y) E(x)	7217932.201 716132.522	7217975.156 716203.182	7217917.652 716147.565	7217952.253 716126.530

NARIZES E BORDOS					
CURVA Nº	R (m)	PONTO	CC	PC	PT
01	1.000	N(y) E(x)	7217642.228 716108.807	7217642.609 716107.883	7217641.342 716109.271
02	5.000	N(y) E(x)	7217906.980 716154.909	7217905.445 716150.150	7217911.838 716153.725
03	8.000	N(y) E(x)	7217913.342 716133.364	7217915.798 716140.977	7217918.645 716139.354
04	1.000	N(y) E(x)	7217921.524 716135.634	7217922.146 716136.417	7217921.273 716134.666
05	16.000	N(y) E(x)	7217911.131 716105.685	7217914.699 716121.282	7217925.300 716113.117
06	16.000	N(y) E(x)	7217917.042 716107.192	7217921.623 716122.522	7217931.662 716113.691

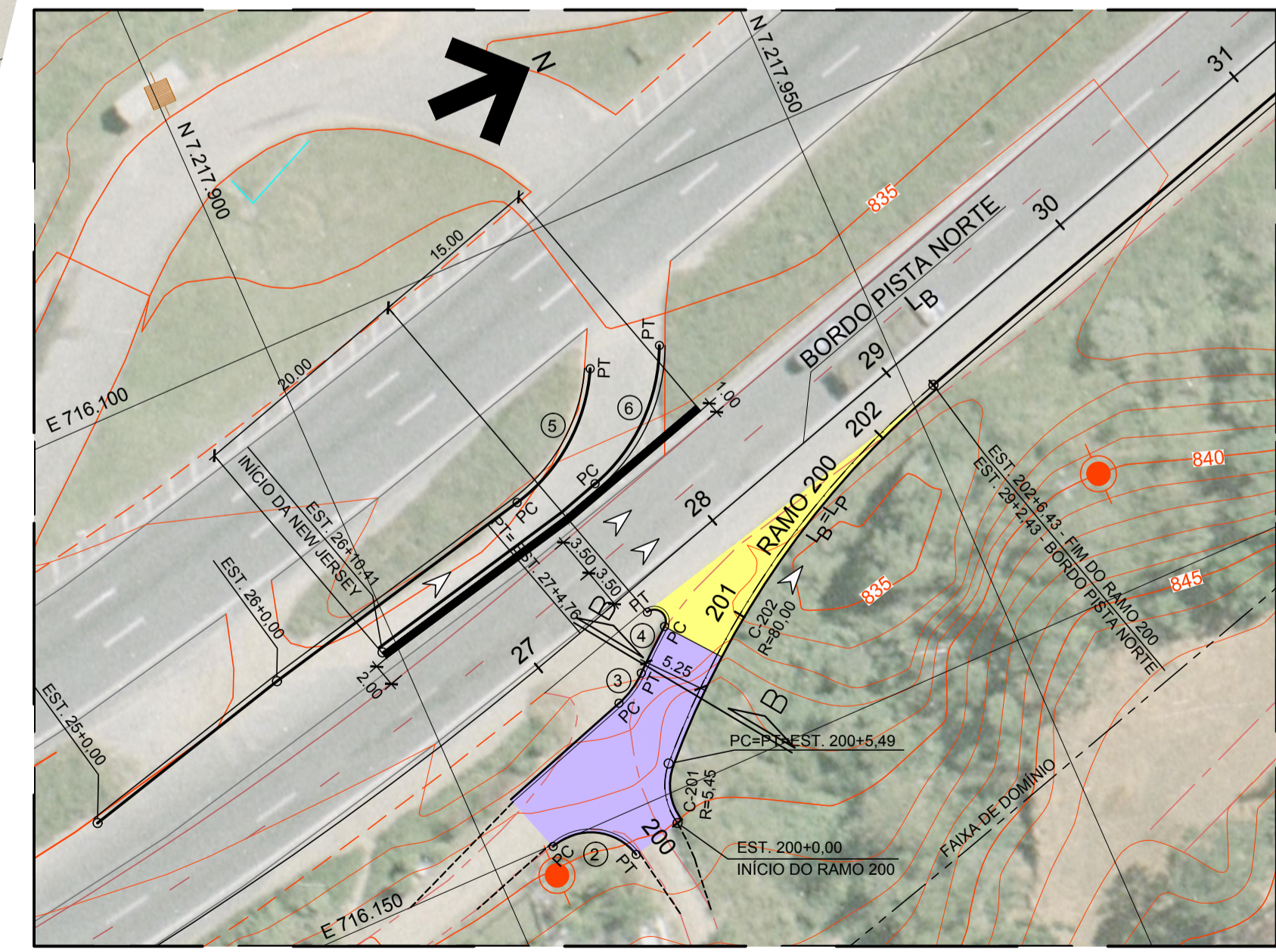
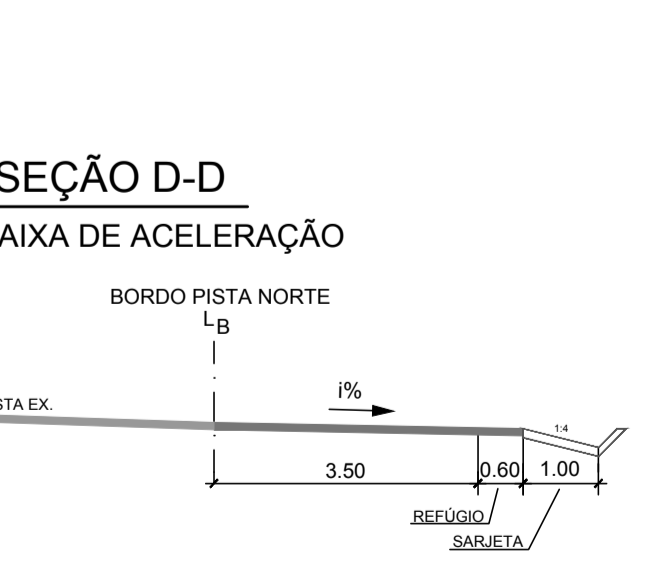
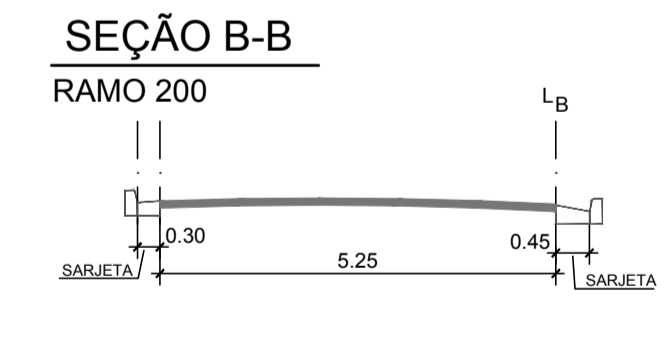
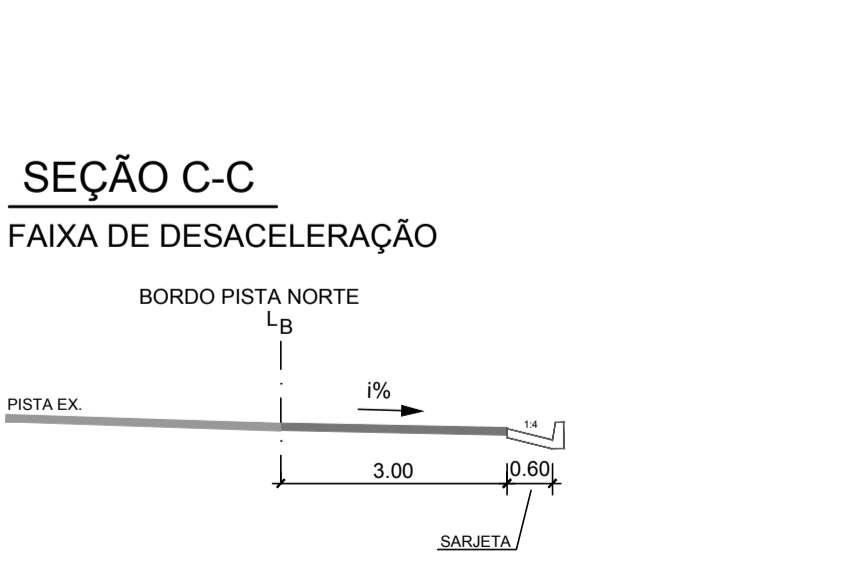
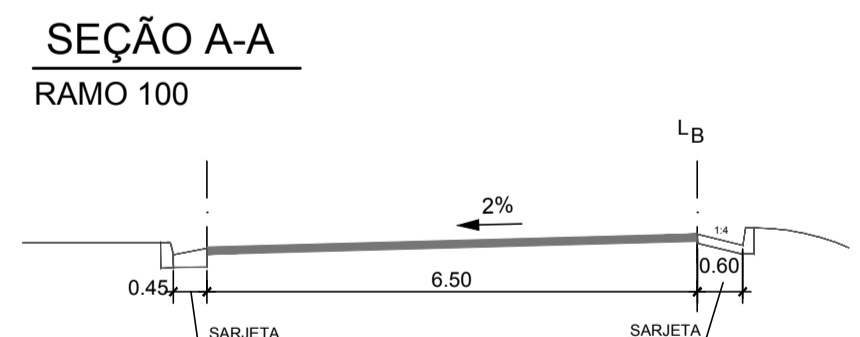
BORDO PISTA NORTE		
PI	ESTACA	COORDENADA
INÍCIO	0+00.00	N(y) 7217398.6875 E(x) 716003.4329
1	5+08.94	N(y) 7217499.3716 E(x) 716045.0376
2	15+04.66	N(y) 7217680.3166 E(x) 716119.6444
FIM	44+00.00	N(y) 7218238.3015 E(x) 716045.7369



PLANTA GERAL
ESCALA 1:1000



DETALHE A
ESCALA 1:500



DETALHE B
ESCALA 1:500

NOTAS:
1. MEDIDAS EM METRO, EXCETO ONDE INDICADO.



FIRMA PROJETISTA												
Comas engenharia	1	19/08/2011								REVISÃO GERAL		
	0	29/03/2011	ESTEBAN COMAS - CREA: 060120345-5							EMISSÃO INICIAL		
Nº INTERNO: COM-06-116/PR-037-0-F02-501	REV. 1	REV.	DATA	RESP. TEC./PROJETISTA	RESP. TEC./CONCES.	RESP. TEC./ANTT	ASSUNTO	DOC. REFERÊNCIA				

Nº DESENHO ANTT:	DE-06-116/PR-037-0-F02/501	REV. :	1
LOCAL:	km 037+600 - PISTA NORTE	TRECHO:	SÃO PAULO - CURITIBA
RODOVIA:	BR-116 RÉGIS BITTENCOURT		
TÍTULO:	PROJETO GEOMÉTRICO - PLANTA MELHORIA EM ACESSOS BAIRRO BARRAGEM - CAMPINA G. DO SUL	ESCALA:	INDICADA
		FOLHA:	ÚNICA