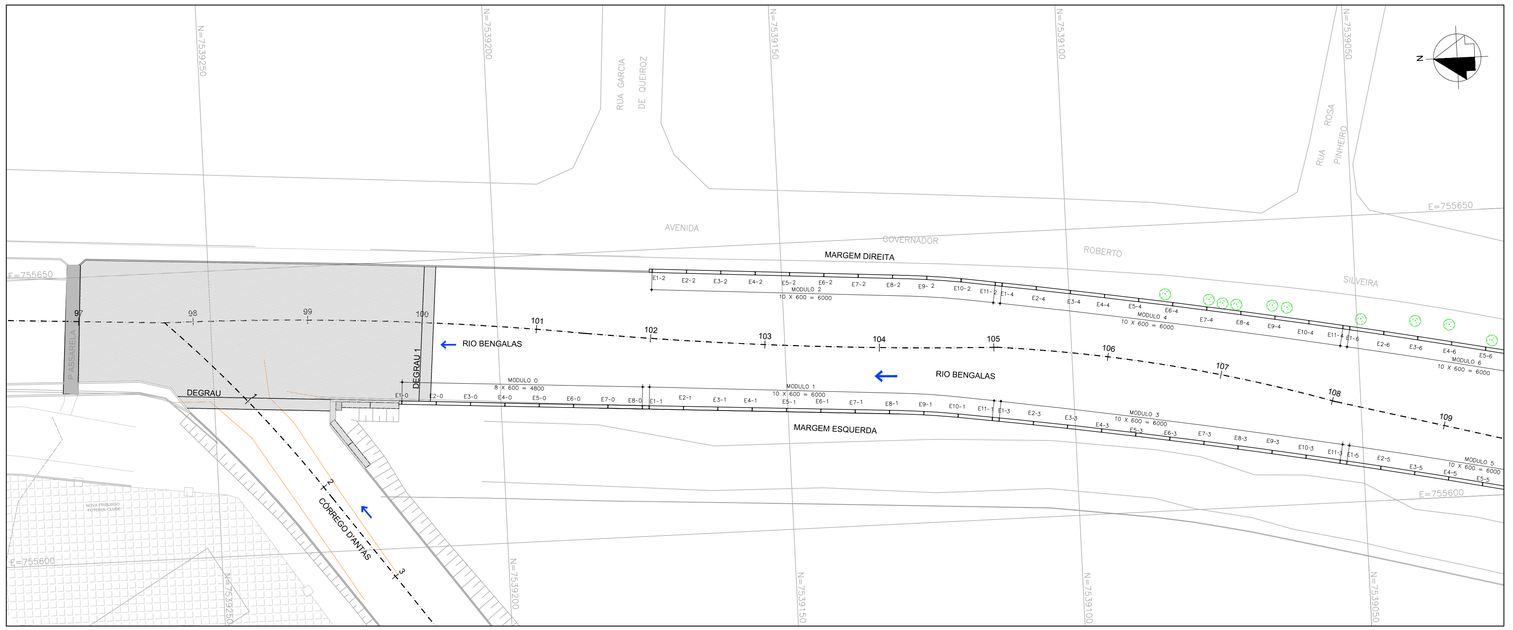
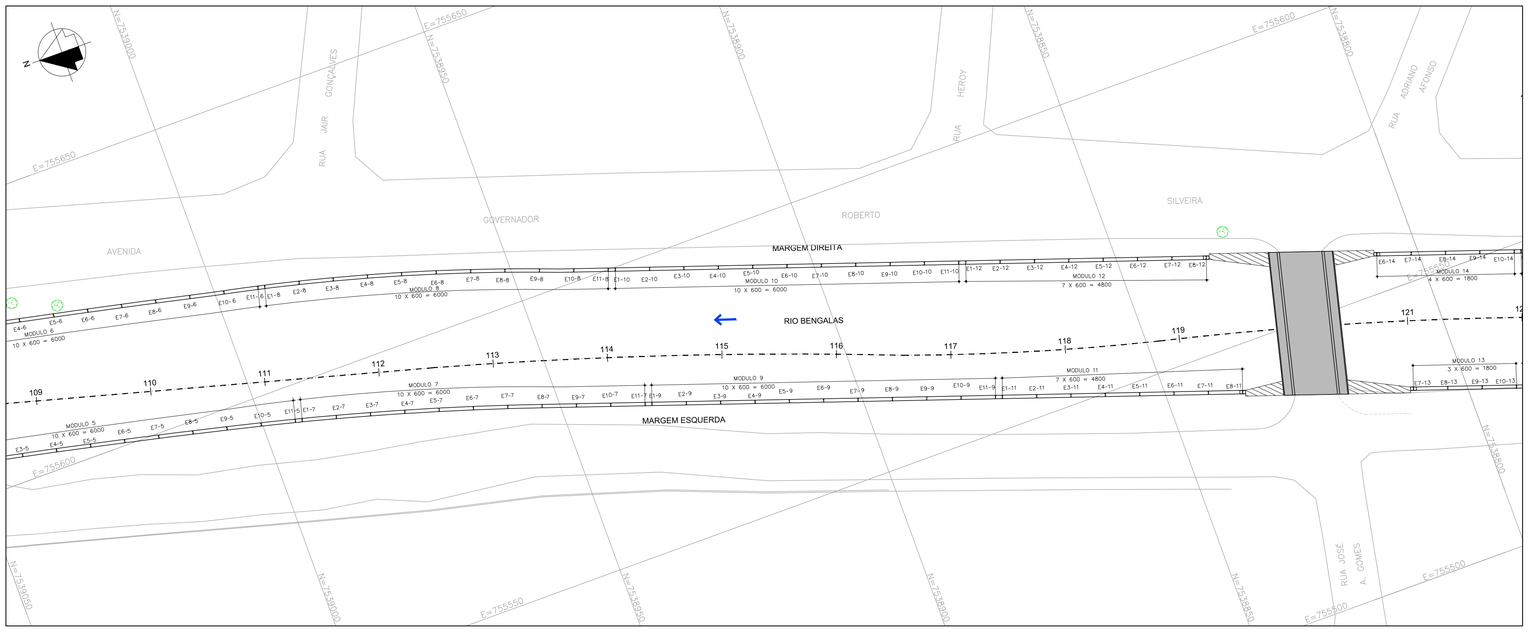




MARGEM ESQUERDA
TABELA DE COORDENADAS

ESTACA	N	E
E1-1	7.539.174,210	755.622,496
E2-1	7.539.168,223	755.622,088
E3-1	7.539.162,237	755.621,680
E4-1	7.539.156,250	755.621,272
E5-1	7.539.150,264	755.620,865
E6-1	7.539.144,278	755.620,457
E7-1	7.539.138,292	755.620,049
E8-1	7.539.132,306	755.619,641
E9-1	7.539.126,325	755.619,159
E10-1	7.539.120,369	755.618,437
E11-1	7.539.114,431	755.617,574
E1-3	7.539.113,244	755.617,401
E2-3	7.539.107,310	755.616,496
E3-3	7.539.101,382	755.615,569
E4-3	7.539.095,458	755.614,614
E5-3	7.539.089,539	755.613,632
E6-3	7.539.083,625	755.612,621
E7-3	7.539.077,715	755.611,584
E8-3	7.539.071,810	755.610,519
E9-3	7.539.065,911	755.609,426
E10-3	7.539.060,016	755.608,305
E11-3	7.539.054,127	755.607,157
E1-5	7.539.052,950	755.606,924
E2-5	7.539.047,067	755.605,743
E3-5	7.539.041,196	755.604,507
E4-5	7.539.035,319	755.603,299
E5-5	7.539.029,454	755.602,036
E6-5	7.539.023,594	755.600,745
E7-5	7.539.017,741	755.599,427
E8-5	7.539.011,893	755.598,081
E9-5	7.539.006,053	755.596,708
E10-5	7.539.000,215	755.595,321
E11-5	7.538.994,392	755.593,875
E1-7	7.538.993,229	755.593,581
E2-7	7.538.987,426	755.592,057
E3-7	7.538.981,640	755.590,467
E4-7	7.538.975,873	755.588,813
E5-7	7.538.970,124	755.587,094
E6-7	7.538.964,395	755.585,311
E7-7	7.538.958,687	755.583,464
E8-7	7.538.952,999	755.581,552
E9-7	7.538.947,322	755.579,609
E10-7	7.538.941,646	755.577,667
E11-7	7.538.935,968	755.575,728
E1-9	7.538.934,832	755.575,340
E2-9	7.538.929,154	755.573,401
E3-9	7.538.923,476	755.571,462
E4-9	7.538.917,798	755.569,522
E5-9	7.538.912,120	755.567,583
E6-9	7.538.906,442	755.565,644
E7-9	7.538.900,764	755.563,705
E8-9	7.538.895,092	755.561,770
E9-9	7.538.889,405	755.559,824
E10-9	7.538.883,725	755.557,889
E11-9	7.538.878,047	755.555,949

ESTACA	N	E
E1-12	7.538.874,889	755.579,794
E2-12	7.538.869,211	755.577,856
E3-12	7.538.863,532	755.575,917
E4-12	7.538.857,854	755.573,979
E5-12	7.538.852,170	755.572,040
E6-12	7.538.846,501	755.570,105
E7-12	7.538.840,813	755.568,163
E8-12	7.538.835,135	755.566,225
E6-14	7.538.806,926	755.556,590
E7-14	7.538.801,248	755.554,651
E8-14	7.538.795,569	755.552,713
E9-14	7.538.789,891	755.550,774
E10-14	7.538.784,213	755.548,836

R4

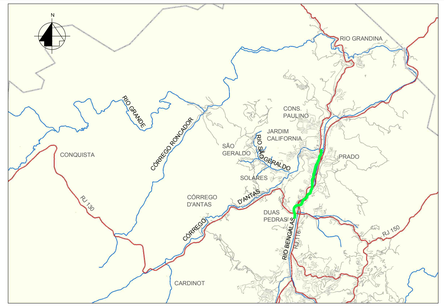
MARGEM DIREITA
TABELA DE COORDENADAS

ESTACA	N	E
E1-2	7.539.172,526	755.646,291
E2-2	7.539.166,542	755.645,852
E3-2	7.539.160,558	755.645,413
E4-2	7.539.154,574	755.644,974
E5-2	7.539.148,590	755.644,535
E6-2	7.539.142,607	755.644,096
E7-2	7.539.136,623	755.643,657
E8-2	7.539.130,639	755.643,218
E9-2	7.539.124,659	755.642,726
E10-2	7.539.118,702	755.642,005
E11-2	7.539.112,771	755.641,102
E1-4	7.539.111,585	755.640,919
E2-4	7.539.105,657	755.639,987
E3-4	7.539.099,734	755.639,033
E4-4	7.539.093,814	755.638,057
E5-4	7.539.087,897	755.637,060
E6-4	7.539.081,985	755.636,039
E7-4	7.539.076,073	755.634,997
E8-4	7.539.070,167	755.633,932
E9-4	7.539.064,266	755.632,846
E10-4	7.539.058,373	755.631,738
E11-4	7.539.052,480	755.630,607
E1-6	7.539.051,296	755.630,377
E2-6	7.539.045,406	755.629,220
E3-6	7.539.039,520	755.628,040
E4-6	7.539.033,647	755.626,841
E5-6	7.539.027,760	755.625,615
E6-6	7.539.021,886	755.624,369
E7-6	7.539.016,029	755.623,104
E8-6	7.539.010,164	755.621,814
E9-6	7.539.004,301	755.620,500
E10-6	7.538.998,434	755.619,222
E11-6	7.538.992,565	755.617,954
E1-8	7.538.991,395	755.617,689
E2-8	7.538.985,529	755.616,304
E3-8	7.538.979,727	755.614,829
E4-8	7.538.973,925	755.613,253
E5-8	7.538.968,174	755.611,590
E6-8	7.538.962,402	755.609,817
E7-8	7.538.956,664	755.607,951
E8-8	7.538.951,010	755.606,012
E9-8	7.538.945,348	755.603,963
E10-8	7.538.939,695	755.601,917
E11-8	7.538.933,998	755.599,972
E1-10	7.538.932,833	755.599,574
E2-10	7.538.927,155	755.597,636
E3-10	7.538.921,476	755.595,697
E4-10	7.538.915,798	755.593,759
E5-10	7.538.910,114	755.591,820
E6-10	7.538.904,445	755.589,885
E7-10	7.538.898,758	755.587,943
E8-10	7.538.893,079	755.586,005
E9-10	7.538.887,395	755.584,064
E10-10	7.538.881,732	755.582,131
E11-10	7.538.876,054	755.580,192

ESTACA	N	E
E1-11	7.538.876,912	755.555,562
E2-11	7.538.871,234	755.553,622
E3-11	7.538.865,556	755.551,683
E4-11	7.538.859,878	755.549,744
E5-11	7.538.854,200	755.547,805
E6-11	7.538.848,522	755.545,866
E7-11	7.538.842,844	755.543,927
E8-11	7.538.837,166	755.541,987
E9-13	7.538.808,943	755.532,345
E8-13	7.538.803,265	755.530,406
E9-13	7.538.797,587	755.528,467
E10-13	7.538.791,909	755.526,528

R4

MAPA DE LOCALIZAÇÃO



ARTICULAÇÃO DAS PRANCHAS



LEGENDA

- ESTAQUEAMENTO (10 — 9)
- SENTIDO DE ESCOAMENTO
- CALHA DO RIO BENGALAS
- E7-3 PERFIL METÁLICO
- TRAVESSIA VIÁRIA
- TRAVESSIA DE PEDESTRE

NOTAS

1 - MEDIDAS E COTAS EM METRO, SALVO ONDE INDICADO.
2 - PARA DETALHES DAS TRAVESSIAS VIÁRIAS VER DESENHOS:
DRM-BH00-PNF-FBE-0-ECO-G-037_042-DE - PROJETO PARA PROTEÇÃO PROVISÓRIA DAS TRAVESSIAS VIÁRIAS - PLANTA, SEÇÕES E DETALHES.

DOCUMENTOS DE REFERÊNCIA

1 - DRM-BH00-PNF-FBE-0-ECO-B-001_003-DE - LEVANTAMENTO TOPOGRÁFICO RIO BENGALAS.

R4	B	30/06/14			Exclusão da área de hold na travessia viária
R3	B	23/01/14			Redução das áreas de hold
R2	A	03/07/13			Onde indicado / Revisão da numeração da prancha
R1	A	01/07/13			Onde indicado
inicial	A	27/06/13			Desenho original
Emissão	Tipo	Data	Revisado por	Resp. Técnico	Descrição

TIPOS DE EMISSÃO				
	A - Preliminar	C - Para conhecimento	E - Para construção	G - Cancelado
	B - Para liberação	D - Para cotação	F - Conf. construído	

GOVERNO DO ESTADO DO RIO DE JANEIRO
SECRETARIA DE ESTADO DO AMBIENTE
INSTITUTO ESTADUAL DO AMBIENTE

APROVAÇÃO DO INEA

PROJETO EXECUTIVO PARA AS OBRAS DE CONTROLE DE INUNDAÇÕES E RECUPERAÇÃO AMBIENTAL DO CÓRREGO D'ANTAS E RIO BENGALAS - MUNICÍPIO DE NOVA FRIBURGO - RJ

GARAMBONE PROJETOS E CONSULTORIA LTDA.
Ecologus Engenharia Consultiva

Projeto: PROJETO ESTRUTURAL
RIO BENGALAS
LOCAÇÃO DAS ESTACAS - E102 a E121

Responsável pelo projeto: VICENTE GARAMBONE FILHO
CREA: RJ16.661-D
Visto:

Número do INEA: DRM-BH00-PNF-FBE-0-ECO-E-001-DE
Data: 27/06/2013
Prancha: 01/08

Número do projeto: INE06-RB-ET-PE-DE-001-R4
Escala: 1:500

DRM-BH00-PNF-FBE-0-ECO-E-001_008-DE