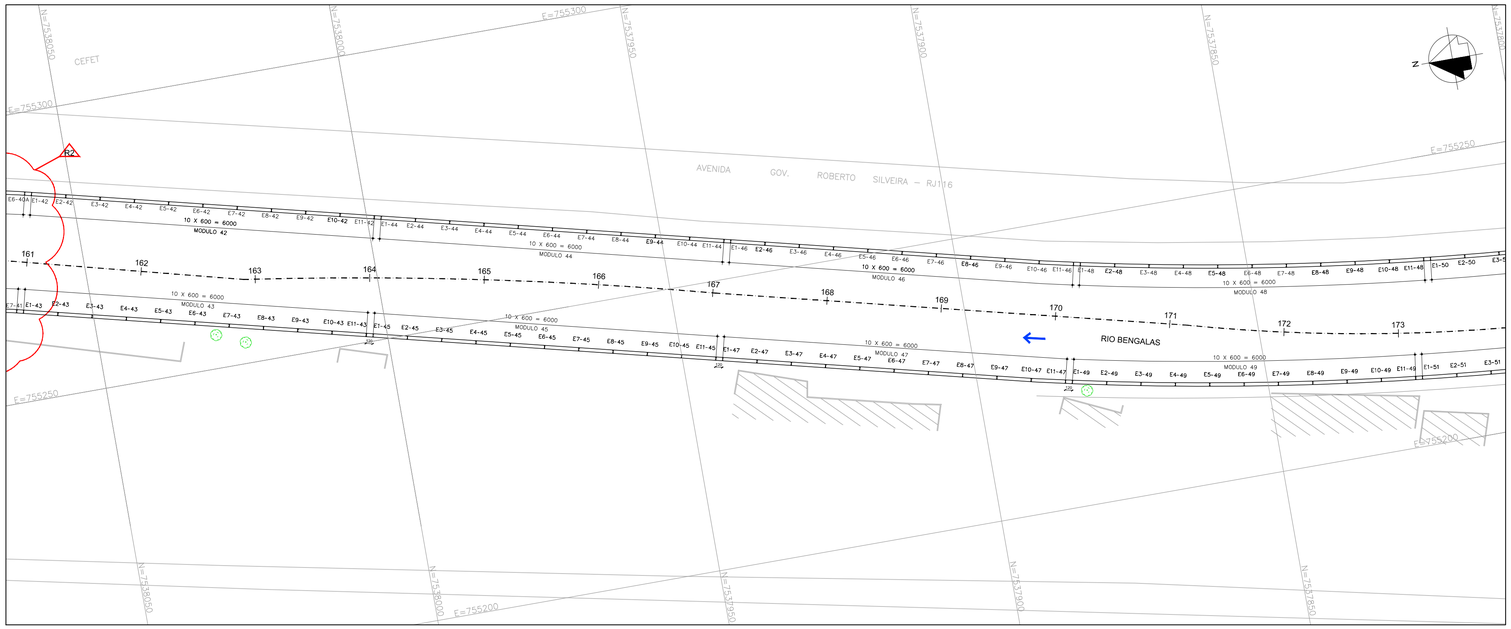




MARGEM ESQUERDA
TABELA DE COORDENADAS

ESTACA	N	E
E1-43	7.538.061,887	755.265,667
E2-43	7.538.056,057	755.264,227
E3-43	7.538.050,237	755.262,790
E4-43	7.538.044,407	755.261,350
E5-43	7.538.038,582	755.259,911
E6-43	7.538.032,762	755.258,473
E7-43	7.538.026,937	755.257,035
E8-43	7.538.021,112	755.255,596
E9-43	7.538.015,287	755.254,157
E10-43	7.538.009,462	755.252,718
E11-43	7.538.003,637	755.251,280
E1-45	7.538.002,472	755.250,992
E2-45	7.537.996,643	755.249,552
E3-45	7.537.990,822	755.248,114
E4-45	7.537.984,993	755.246,674
E5-45	7.537.979,172	755.245,237
E6-45	7.537.973,343	755.243,797
E7-45	7.537.967,518	755.242,358
E8-45	7.537.961,693	755.240,920
E9-45	7.537.955,873	755.239,482
E10-45	7.537.950,048	755.238,043
E11-45	7.537.944,223	755.236,604
E1-47	7.537.943,058	755.236,317
E2-47	7.537.937,233	755.234,878
E3-47	7.537.931,408	755.233,439
E4-47	7.537.925,583	755.232,000
E5-47	7.537.919,758	755.230,562
E6-47	7.537.913,933	755.229,123
E7-47	7.537.908,108	755.227,684
E8-47	7.537.902,283	755.226,246
E9-47	7.537.896,458	755.224,807
E10-47	7.537.890,633	755.223,368
E11-47	7.537.884,782	755.222,039
E1-49	7.537.883,610	755.221,783
E2-49	7.537.877,740	755.220,540
E3-49	7.537.871,858	755.219,357
E4-49	7.537.865,964	755.218,233
E5-49	7.537.860,059	755.217,169
E6-49	7.537.854,144	755.216,165
E7-49	7.537.848,218	755.215,220
E8-49	7.537.842,284	755.214,336
E9-49	7.537.836,341	755.213,511
E10-49	7.537.830,390	755.212,747
E11-49	7.537.824,431	755.212,043
E1-51	7.537.823,243	755.211,910
E2-51	7.537.817,272	755.211,278
E3-51	7.537.811,299	755.210,707
E4-51	7.537.805,321	755.210,197
E5-51	7.537.799,338	755.209,746
E6-51	7.537.793,351	755.209,357
E7-51	7.537.787,360	755.209,028
E8-51	7.537.781,366	755.208,760
E9-51	7.537.775,369	755.208,552
E10-51	7.537.769,371	755.208,405
E11-51	7.537.763,372	755.208,319

ESTACA	N	E
E1-53	7.537.762,172	755.208,314
E2-53	7.537.756,172	755.208,295
E3-53	7.537.750,172	755.208,342
E4-53	7.537.744,173	755.208,451
E5-53	7.537.738,175	755.208,619
E6-53	7.537.732,180	755.208,849
E7-53	7.537.726,187	755.209,139
~~E8-53~~	~~7.537.720,197~~	~~755.209,480~~
E9-53	7.537.714,211	755.209,901
E10-53	7.537.708,230	755.210,373
E3-55	7.537.689,066	755.212,296
~~E4-55~~	~~7.537.683,110~~	~~755.213,002~~
E5-55	7.537.677,124	755.213,420
E6-55	7.537.671,136	755.213,803
E7-55	7.537.665,148	755.214,187
E8-55	7.537.659,161	755.214,570
E9-55	7.537.653,175	755.214,976
E10-55	7.537.647,194	755.215,463

R2

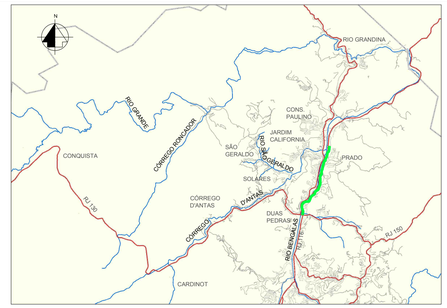
MARGEM DIREITA
TABELA DE COORDENADAS

ESTACA	N	E
E1-42	7.538.056,947	755.285,665
E2-42	7.538.051,122	755.284,227
E3-42	7.538.045,297	755.282,789
E4-42	7.538.039,472	755.281,350
E5-42	7.538.033,647	755.279,911
E6-42	7.538.027,822	755.278,472
E7-42	7.538.021,997	755.277,034
E8-42	7.538.016,172	755.275,595
E9-42	7.538.010,347	755.274,156
E10-42	7.538.004,522	755.272,717
E11-42	7.537.998,697	755.271,279
E1-44	7.537.997,532	755.270,991
E2-44	7.537.991,708	755.269,552
E3-44	7.537.985,883	755.268,113
E4-44	7.537.980,058	755.266,675
E5-44	7.537.974,233	755.265,236
E6-44	7.537.968,408	755.263,797
E7-44	7.537.962,583	755.262,358
E8-44	7.537.956,758	755.260,920
E9-44	7.537.950,933	755.259,481
E10-44	7.537.945,108	755.258,042
E11-44	7.537.939,283	755.256,603
E1-46	7.537.938,118	755.256,316
E2-46	7.537.932,293	755.254,877
E3-46	7.537.926,468	755.253,438
E4-46	7.537.920,643	755.251,999
E5-46	7.537.914,818	755.250,561
E6-46	7.537.908,993	755.249,122
E7-46	7.537.903,168	755.247,683
E8-46	7.537.897,343	755.246,245
E9-46	7.537.891,518	755.244,806
E10-46	7.537.885,693	755.243,367
E11-46	7.537.879,841	755.242,045
E1-48	7.537.878,668	755.241,791
E2-48	7.537.872,797	755.240,555
E3-48	7.537.866,913	755.239,381
E4-48	7.537.861,017	755.238,268
E5-48	7.537.855,110	755.237,218
E6-48	7.537.849,192	755.236,229
E7-48	7.537.843,263	755.235,302
E8-48	7.537.837,326	755.234,438
E9-48	7.537.831,380	755.233,636
E10-48	7.537.825,426	755.232,896
E11-48	7.537.819,464	755.232,219
E1-50	7.537.818,276	755.232,092
E2-50	7.537.812,301	755.231,489
E3-50	7.537.806,326	755.230,950
E4-50	7.537.800,344	755.230,473
E5-50	7.537.794,359	755.230,059
E6-50	7.537.788,369	755.229,707
E7-50	7.537.782,376	755.229,419
E8-50	7.537.776,380	755.229,193
E9-50	7.537.770,382	755.229,030
E10-50	7.537.764,383	755.228,930
E11-50	7.537.758,383	755.228,893

ESTACA	N	E
E1-52	7.537.757,183	755.228,894
E2-52	7.537.751,184	755.228,931
E3-52	7.537.745,184	755.229,033
E4-52	7.537.739,187	755.229,197
E5-52	7.537.733,191	755.229,424
E6-52	7.537.727,198	755.229,714
E7-52	7.537.721,209	755.230,067
~~E8-52~~	~~7.537.715,223~~	~~755.230,482~~
E9-52	7.537.709,242	755.230,960
E10-52	7.537.703,266	755.231,501
E3-54	7.537.684,511	755.233,589
E4-54	7.537.678,524	755.233,973
~~E5-54~~	~~7.537.672,536~~	~~755.234,356~~
E6-54	7.537.666,548	755.234,739
E7-54	7.537.660,560	755.235,123
E8-54	7.537.654,575	755.235,533
E9-54	7.537.648,594	755.236,015

R2

MAPA DE LOCALIZAÇÃO



RIO BENGALAS

ARTICULAÇÃO DAS PRANCHAS



LEGENDA

- ESTAQUEAMENTO
- 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.

R2	B	30/06/14			Exclusão da área de hold na travessia viária
R1	B	23/01/14			Redução das áreas de hold
inicial	A	03/07/13			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 - E161 a E182		
Responsável pelo projeto	VICENTE GARAMBONE FILHO	CREA	RJ16.661-D
Visto			
Número do INEA	DRM-BH00-PNF-FBE-0-ECO-E-004-DE	Data	03/07/2013
Número do projeto	INE06-RB-ET-PE-DE-004-R2	Escala	1:500
Prancha	04/08		

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