

**PREFEITURA MUNICIPAL DE GUARAPARI**

*SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS*

**PROJETO GEOMÉTRICO  
DO TRECHO DE "TODOS OS  
SANTOS À SANTA RITA"**

TRECHO: TODOS OS SANTOS x SANTA RITA  
EXTENSÃO: 13,44km

**VOLUME ÚNICO**

ELABORAÇÃO:



**TERCEIRO MILENIUM TOPOGRAFIA E EMP. LTDA**

CNPJ: 02.709.225/0001-47  
RUA SANTA CRUZ, Nº 88, VILA CAPIXABA  
CARIACICA - ES - CEP: 29.148-040  
TELEFONE: (27) 3286-2516

# **PREFEITURA MUNICIPAL DE GUARAPARI**

*SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS*

## **PROJETO GEOMÉTRICO DO TRECHO DE "TODOS OS SANTOS À SANTA RITA"**

CONTRATANTE:

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PREFEITURA MUNICIPAL DE GUARAPARI  
CNPJ: 27.165.190/0001-53

RESP. TÉCNICO:

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FERNANDO COUTINHO MAIA JUNIOR  
CREA: ES-037304/D

ELABORAÇÃO:



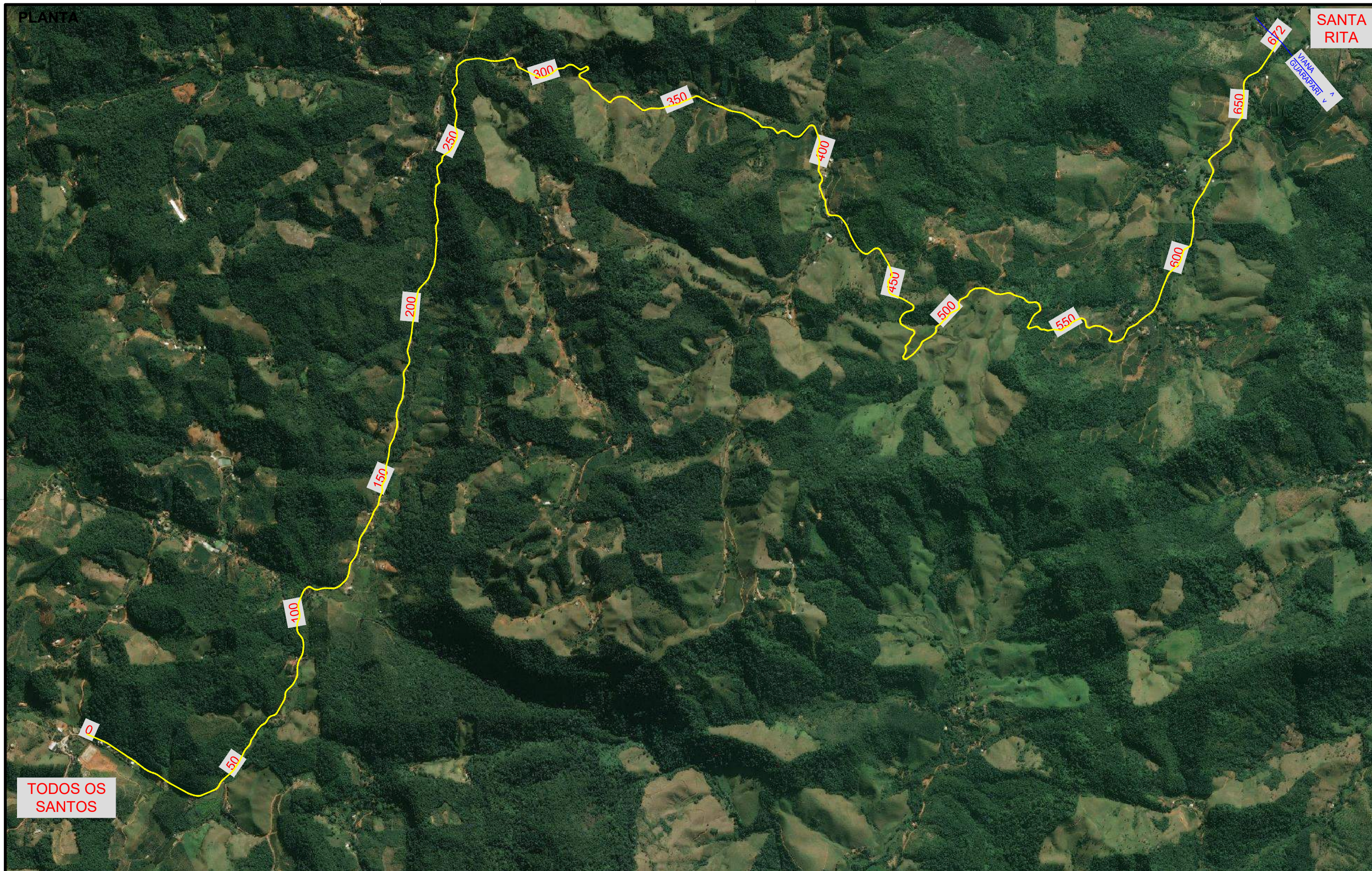
**TERCEIRO MILENIUM TOPOGRAFIA E EMP. LTDA**

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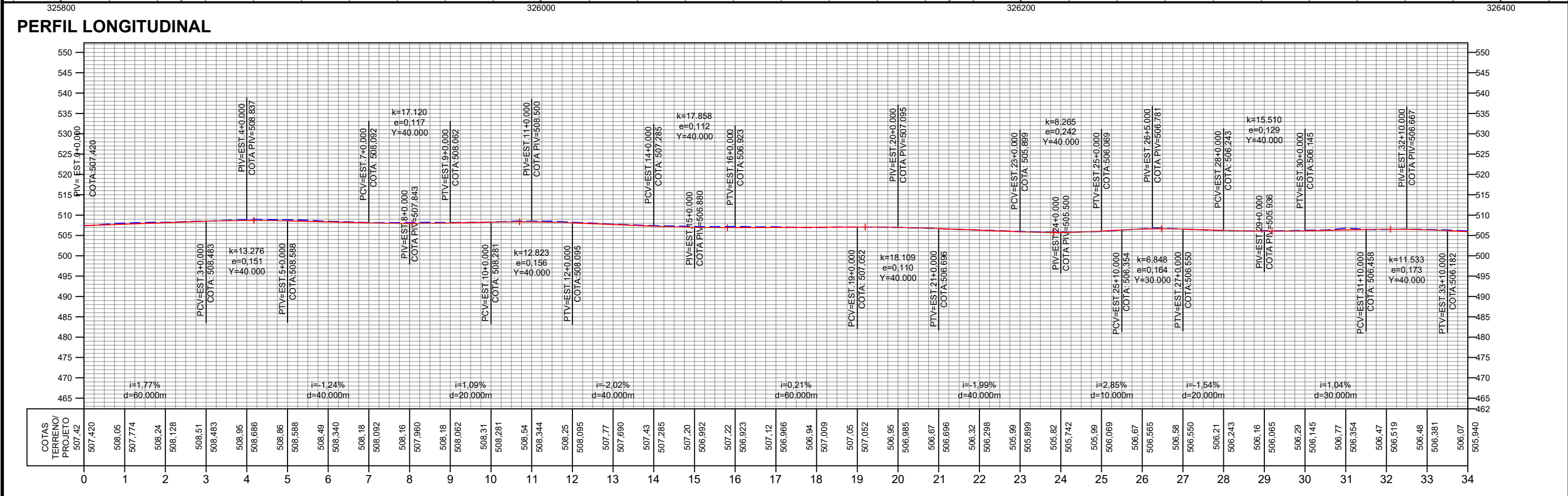
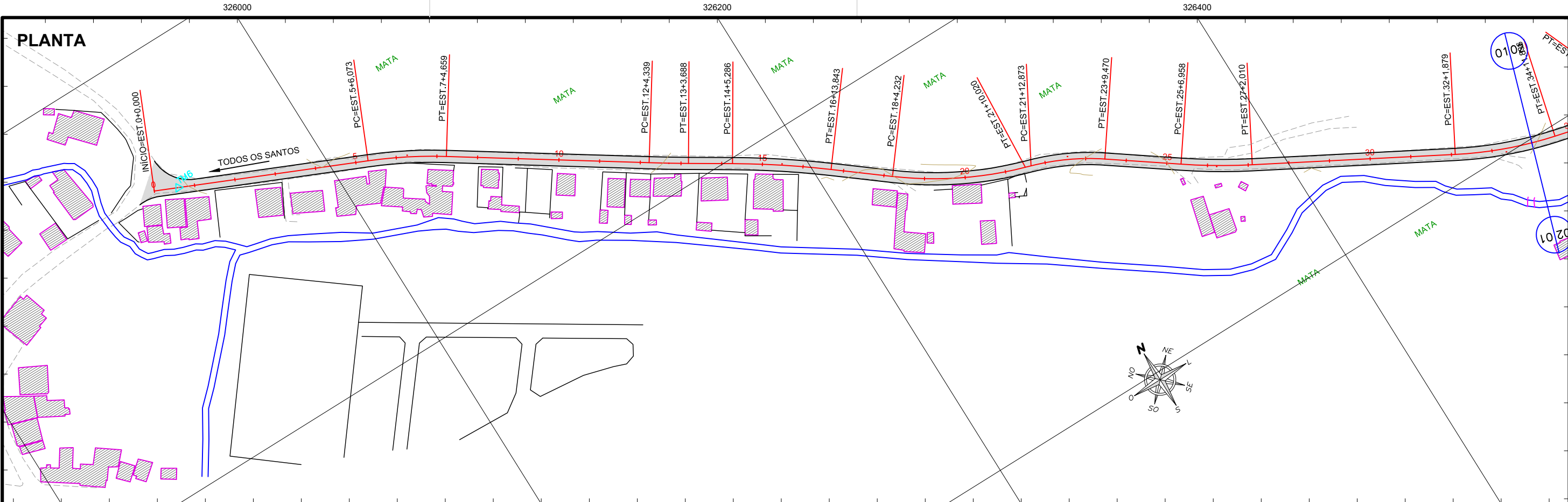
PLANTA



**CONVENÇÕES**

 EIXO PROJETADO

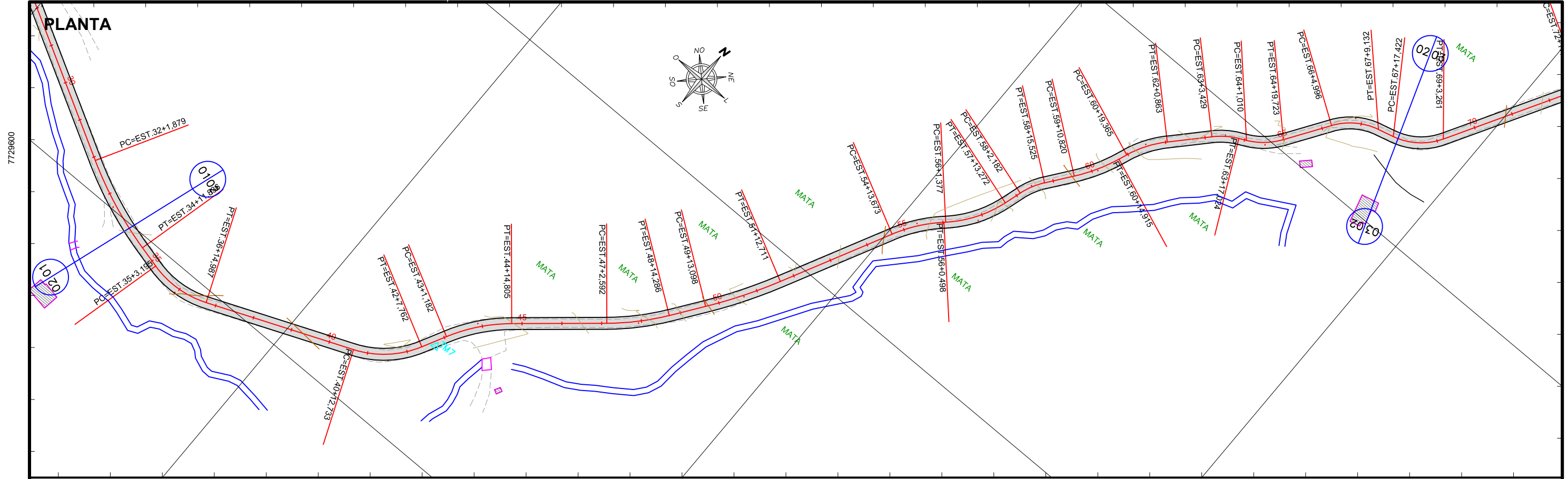
<b>PREFEITURA MUNICIPAL DE GUARAPARI</b>		<b>PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS</b>		
SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS		TÍTULO: PLANTA DE LOCALIZAÇÃO	SUBTÍTULO: -	
		TRECHO: TODOS OS SANTOS x SANTA RITA	LOCAL: GUARAPARI - ES	
ESCALA: 1:20.000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0	FOLHA: 02



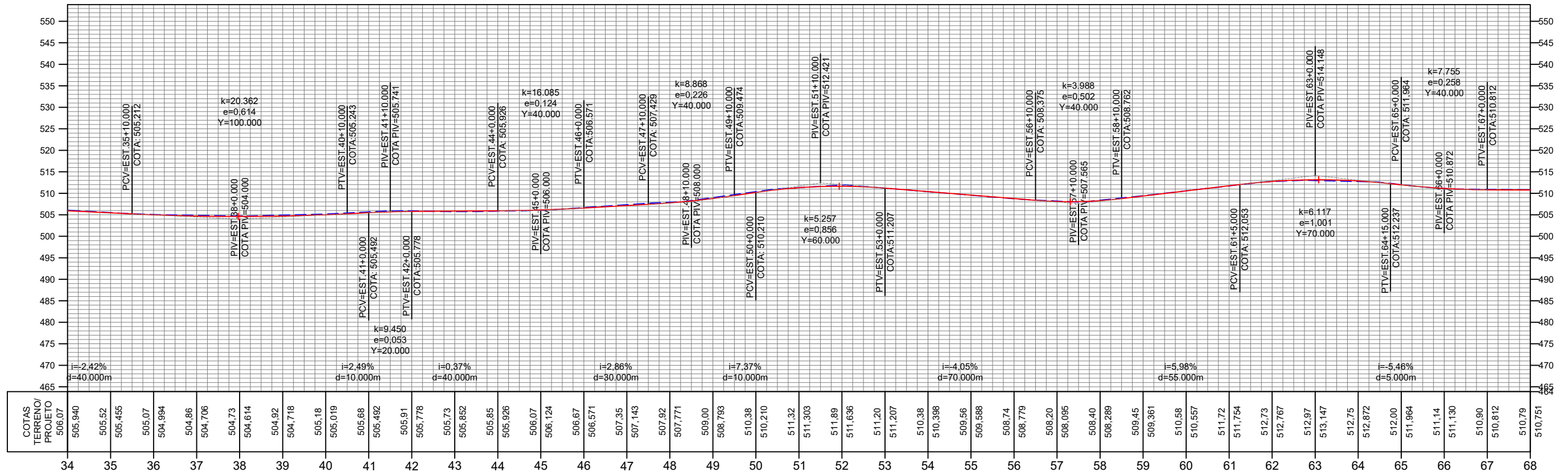
### CONVENÇÕES

	EIXO PROJETADO		PONTES
	CÓRREGO / LAGOA		PONTOS DE APOIO
	EDIFICAÇÃO		TERRENO NATURAL(PERFIL)
	MURO		GREIDE DE PROJETO (PERFIL)
	BORDO DA PISTA EXISTENTE		MATA

<p><b>PREFEITURA MUNICIPAL DE GUARAPARI</b></p> <p>SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS</p>		<b>PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS</b>							
		TÍTULO:	PROJETO GEOMÉTRICO	SUBTÍTULO:	PLANTA E PERFIS				
		TRECHO:	TODOS OS SANTOS x SANTA RITA		LOCAL:	GUARAPARI - ES			
		ESCALA:	Hz: 1/2000 V: 1/1000	DATA:	JUNHO/2019	EXT.:	13,44km	REVISÃO:	0



**PERFIL LONGITUDINAL**



**CONVENÇÕES**

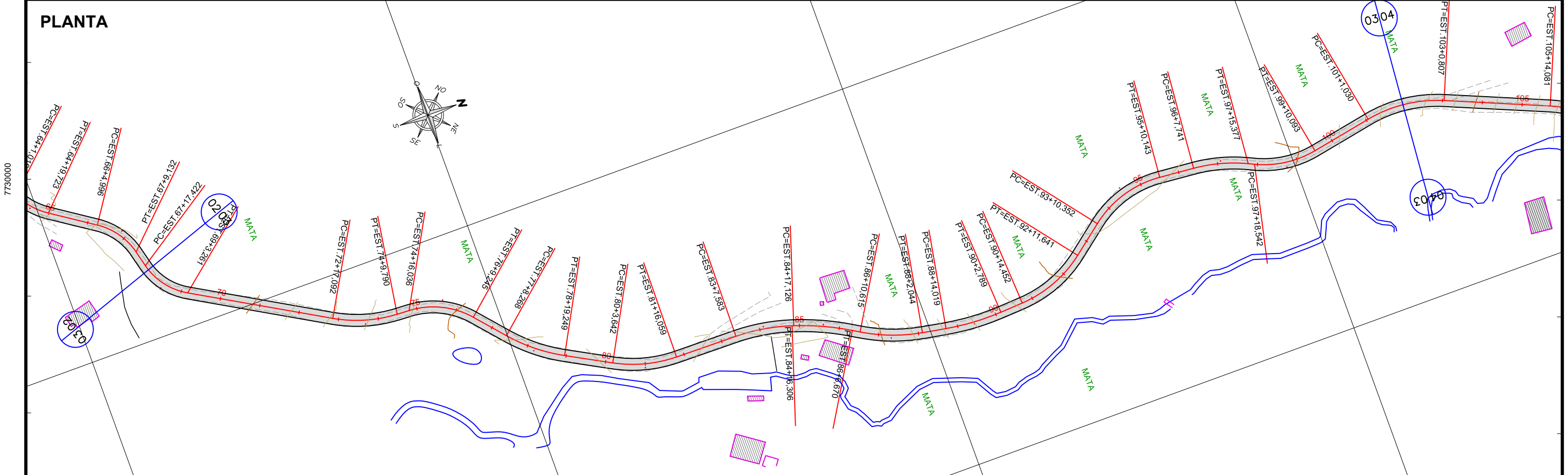
- EIXO PROJETADO
- CÓRREGO / LAGOA
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- PONTES
- PONTOS DE APOIO
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- MATA

**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

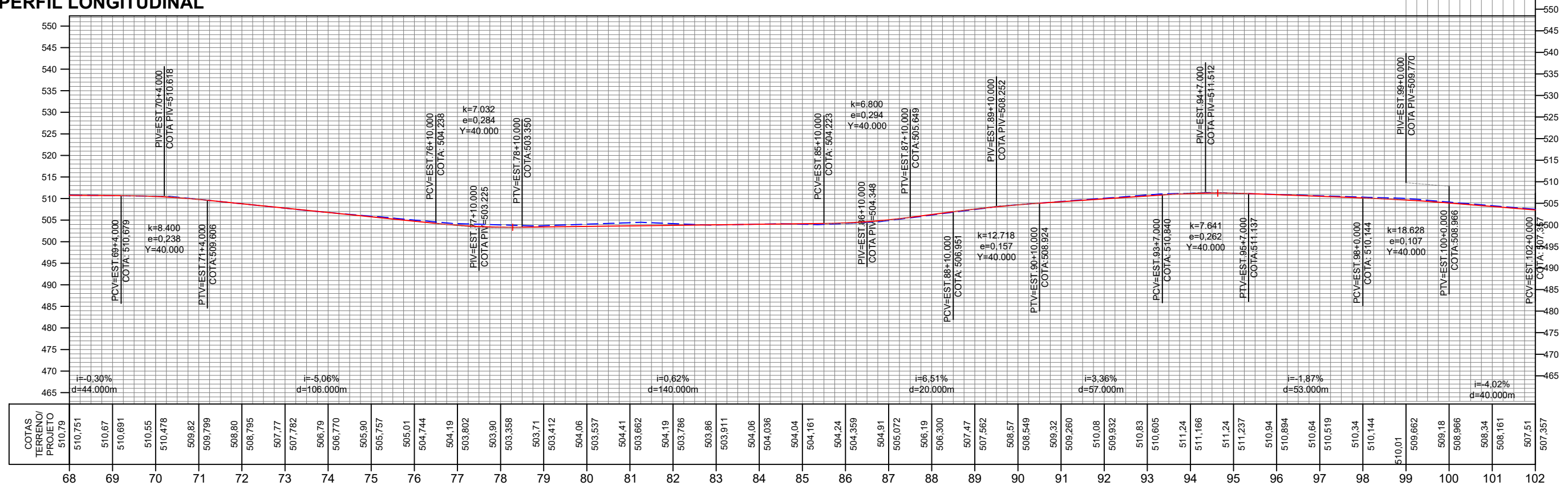
**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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# PLANTA



# PERFIL LONGITUDINAL



## CONVENÇÕES

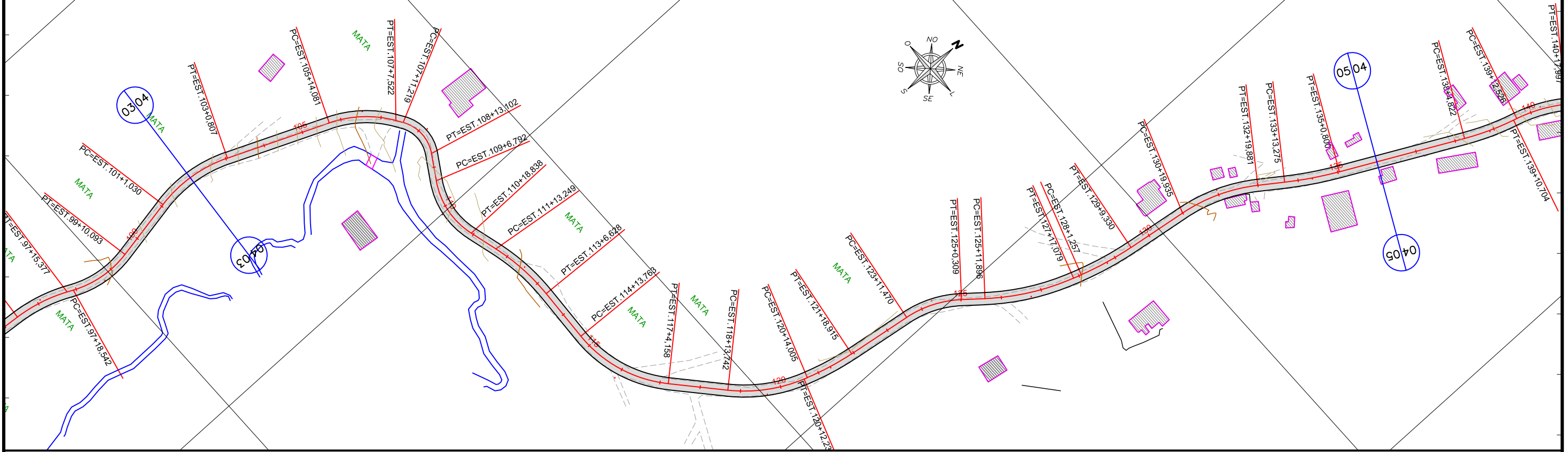
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- CÓRREGO / LAGOA
- EDIFICAÇÃO
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- PONTES
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**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

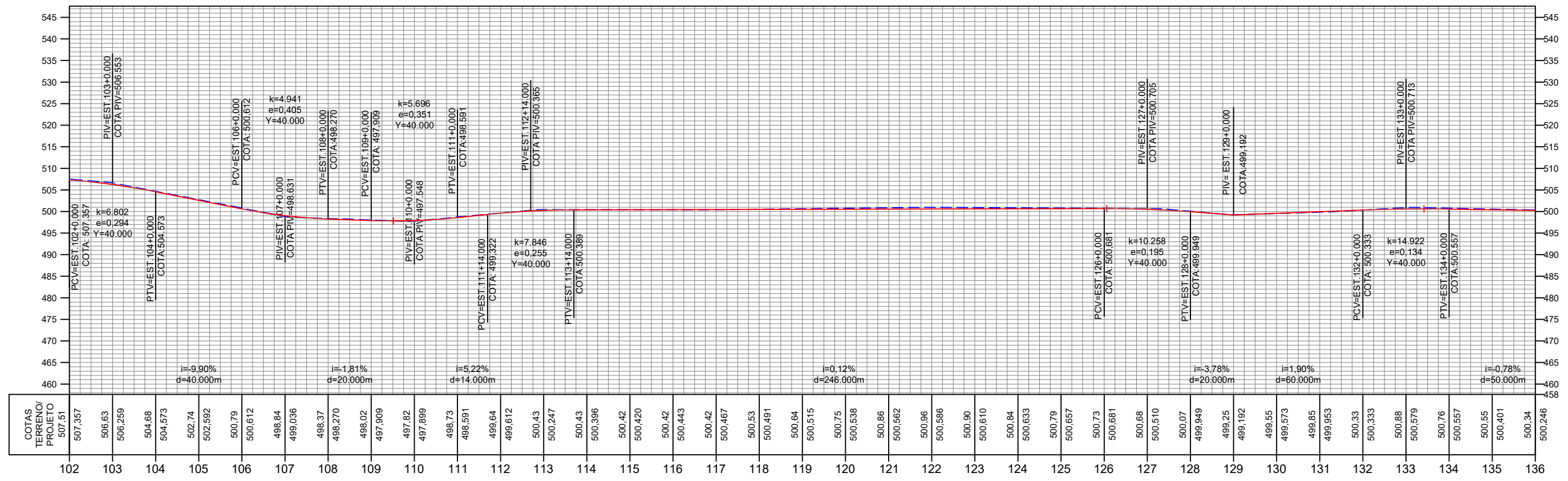
## PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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# PLANTA



# PERFIL LONGITUDINAL



## CONVENÇÕES

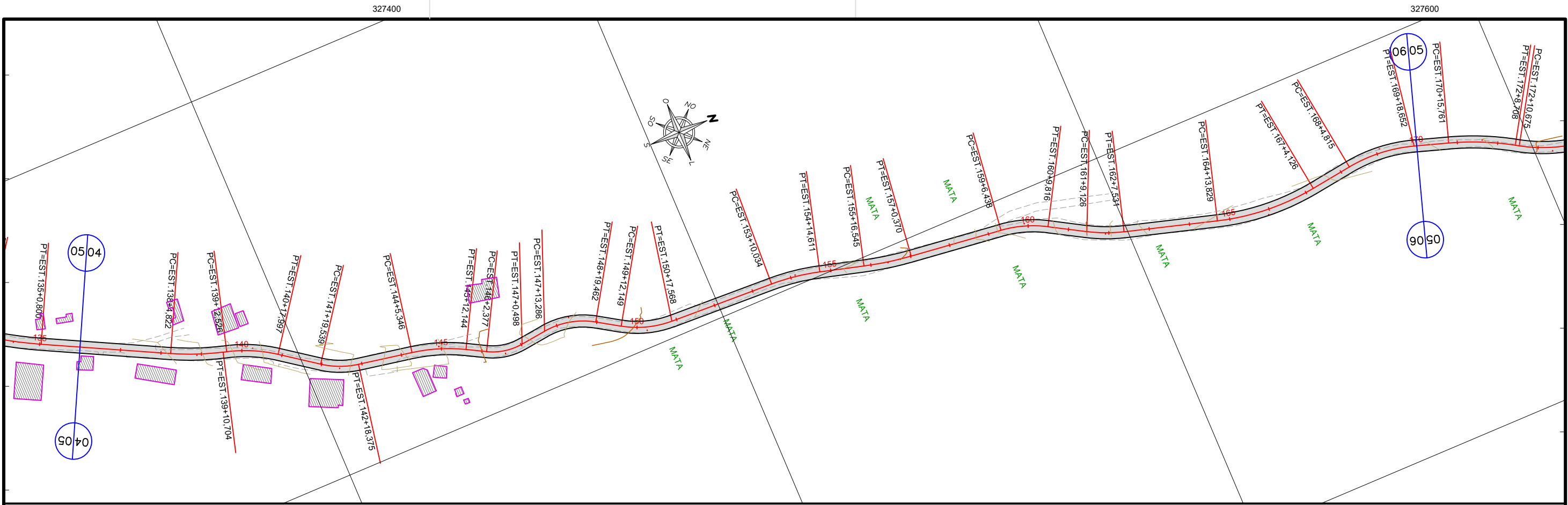
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- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
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- MATA

**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

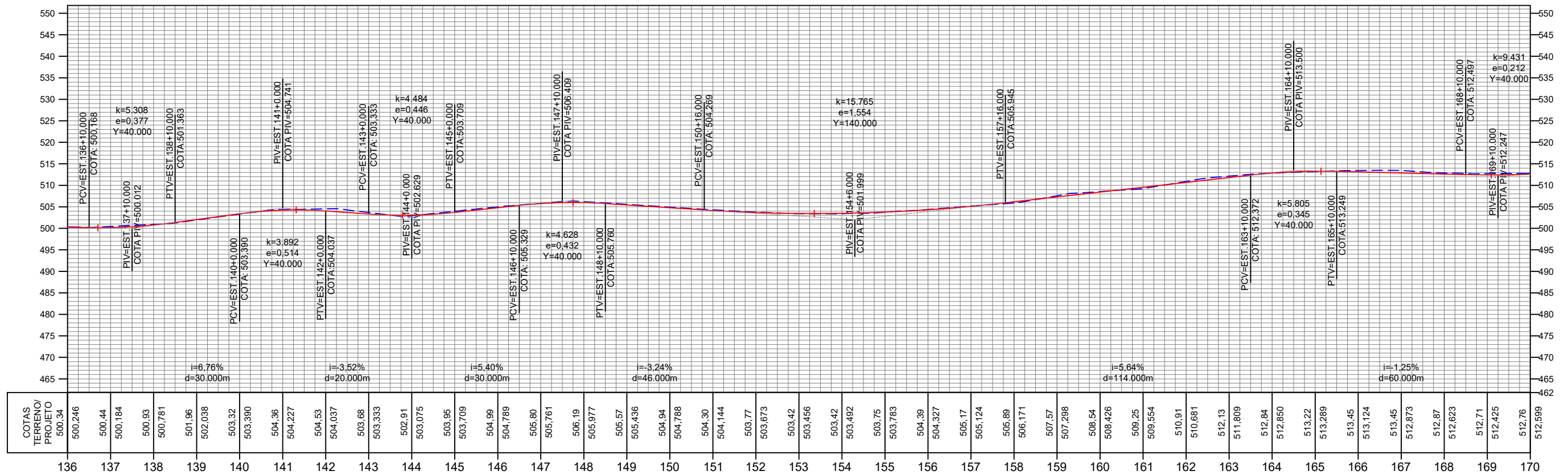
## PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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**PERFIL LONGITUDINAL**



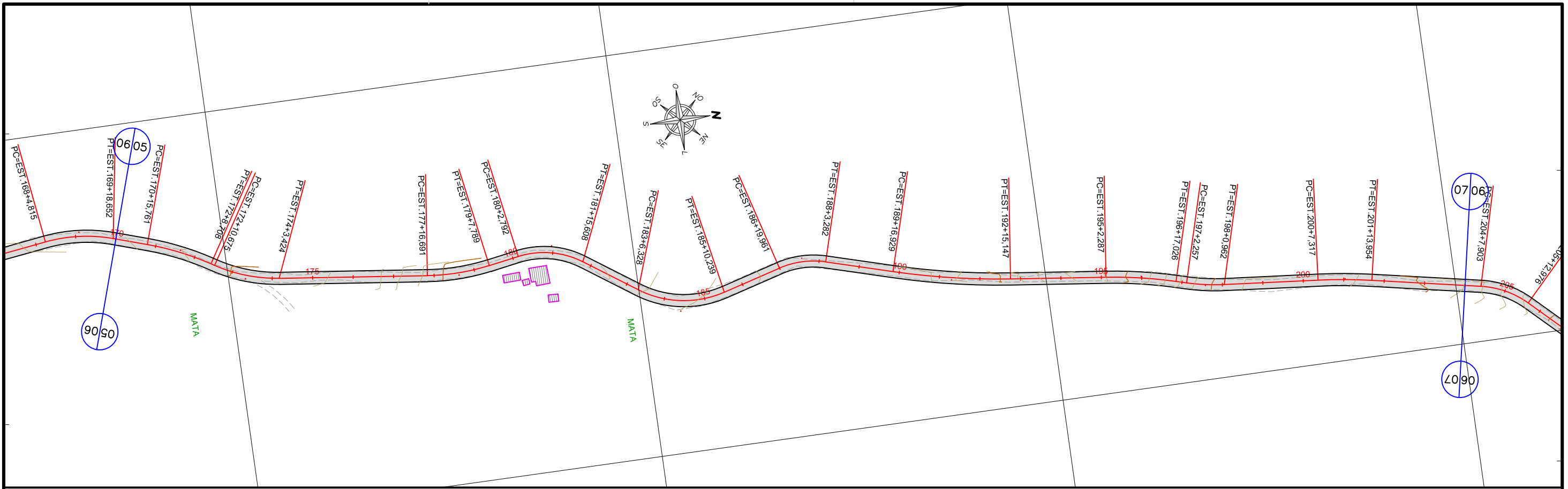
**CONVENÇÕES**

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
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**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

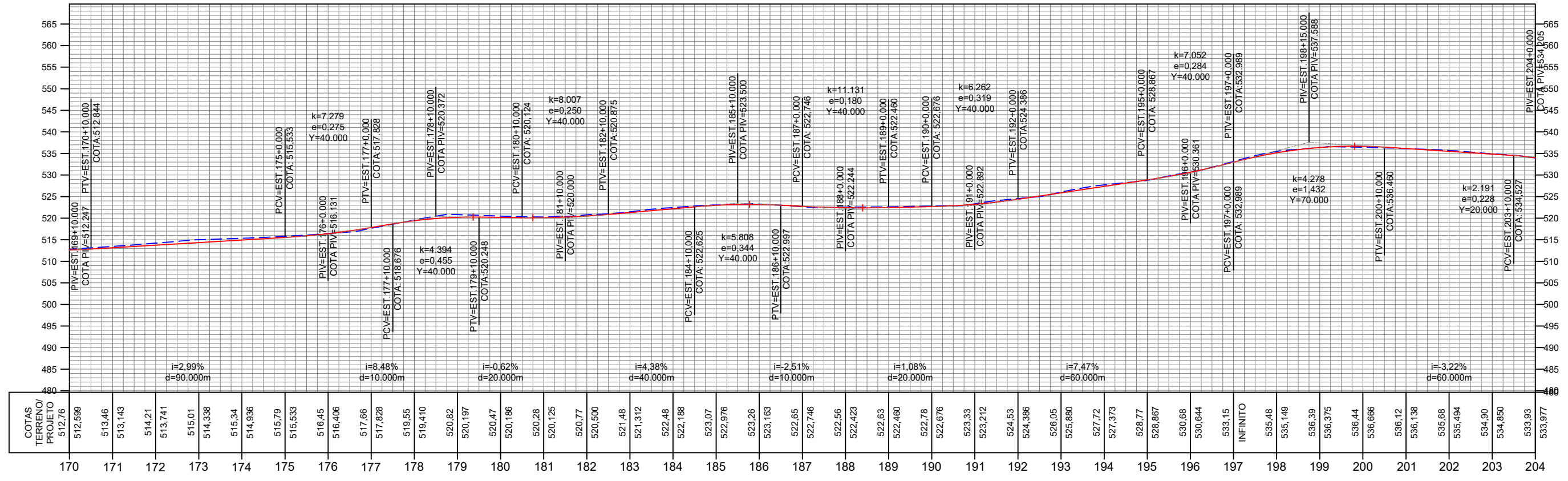
**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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**PERFIL LONGITUDINAL**

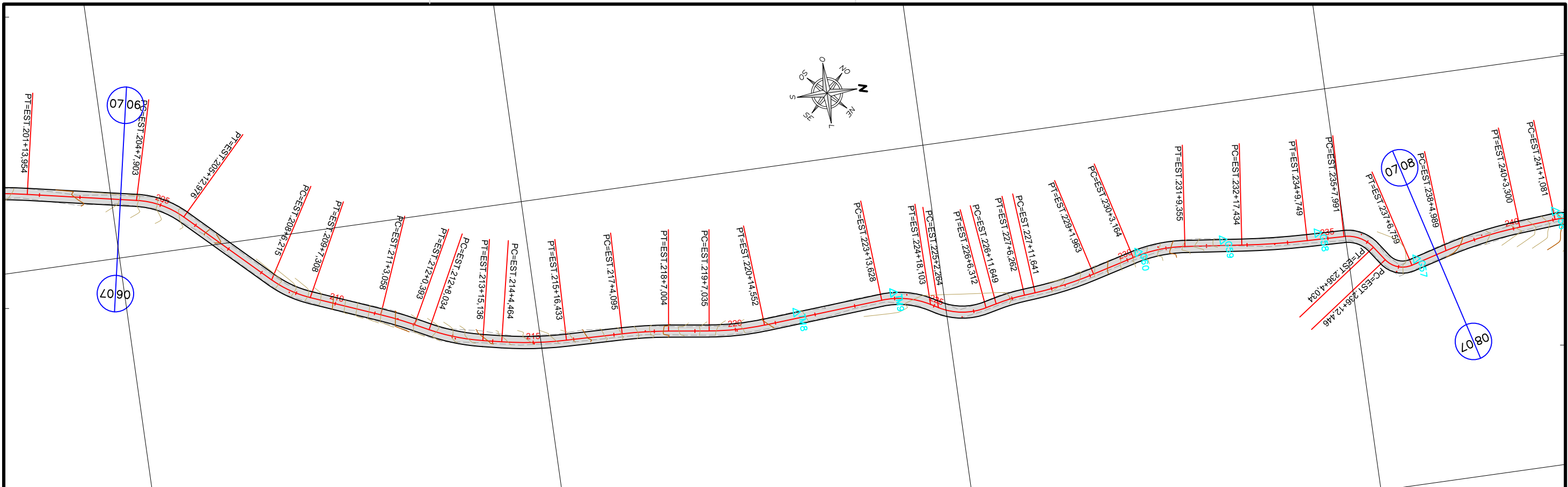


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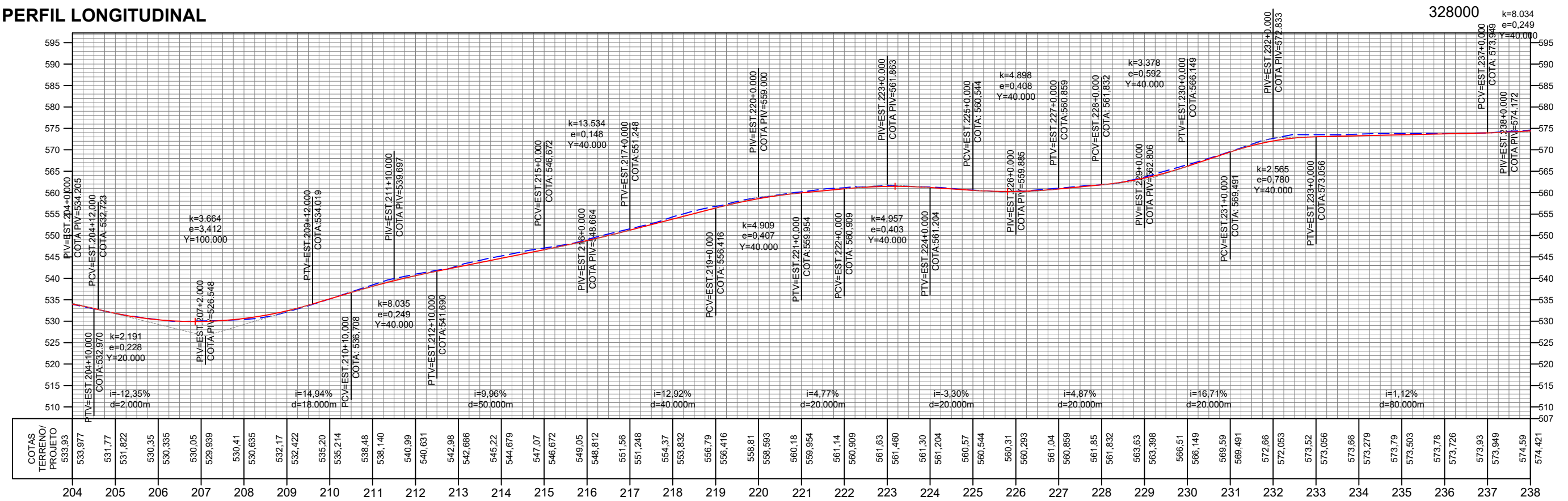
- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
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PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS			
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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**PERFIL LONGITUDINAL**



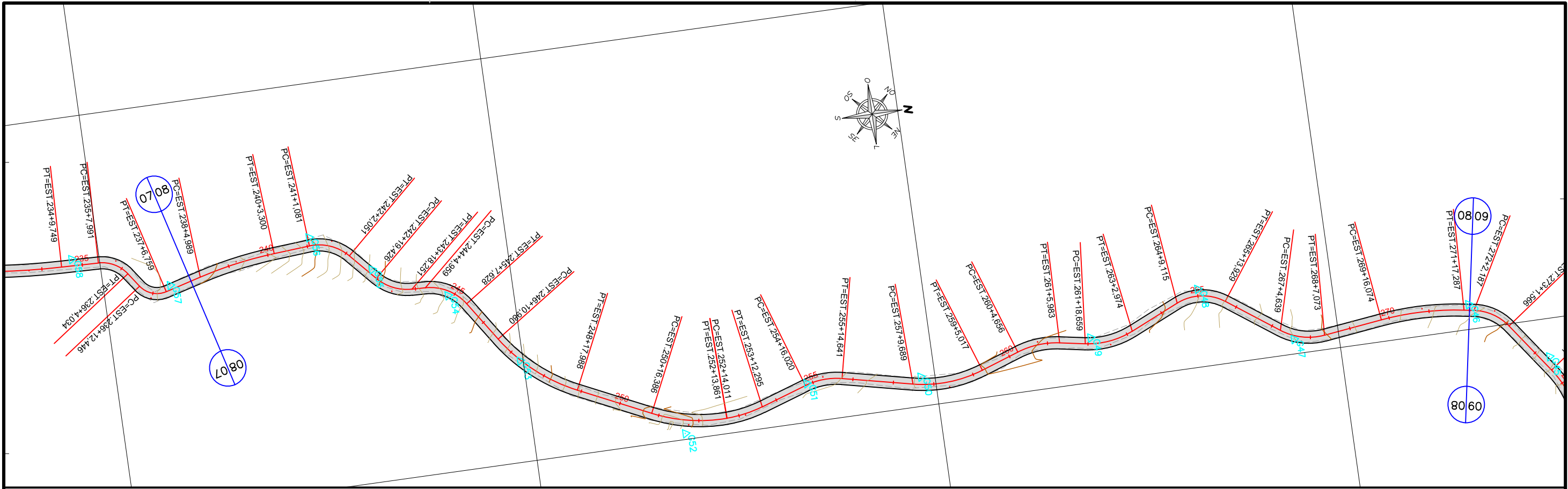
**CONVENÇÕES**

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
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 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

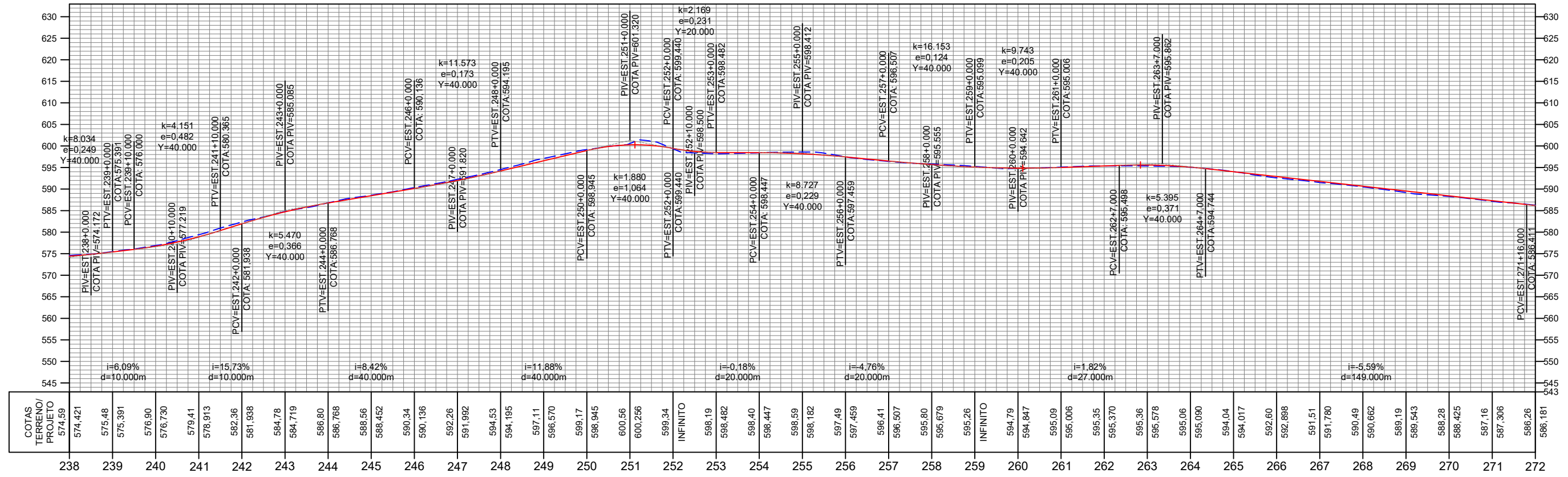
**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 09	



328000

**PERFIL LONGITUDINAL**



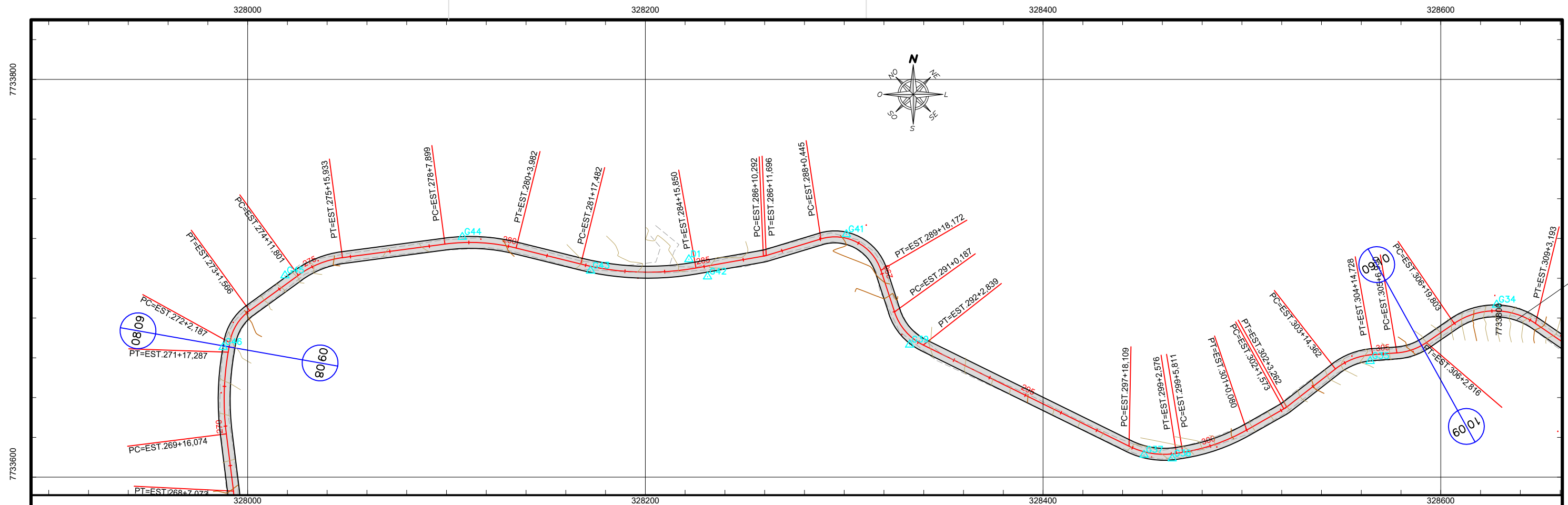
**CONVENÇÕES**

- EIXO PROJETADO
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- EDIFICAÇÃO
- MURO
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- MATA

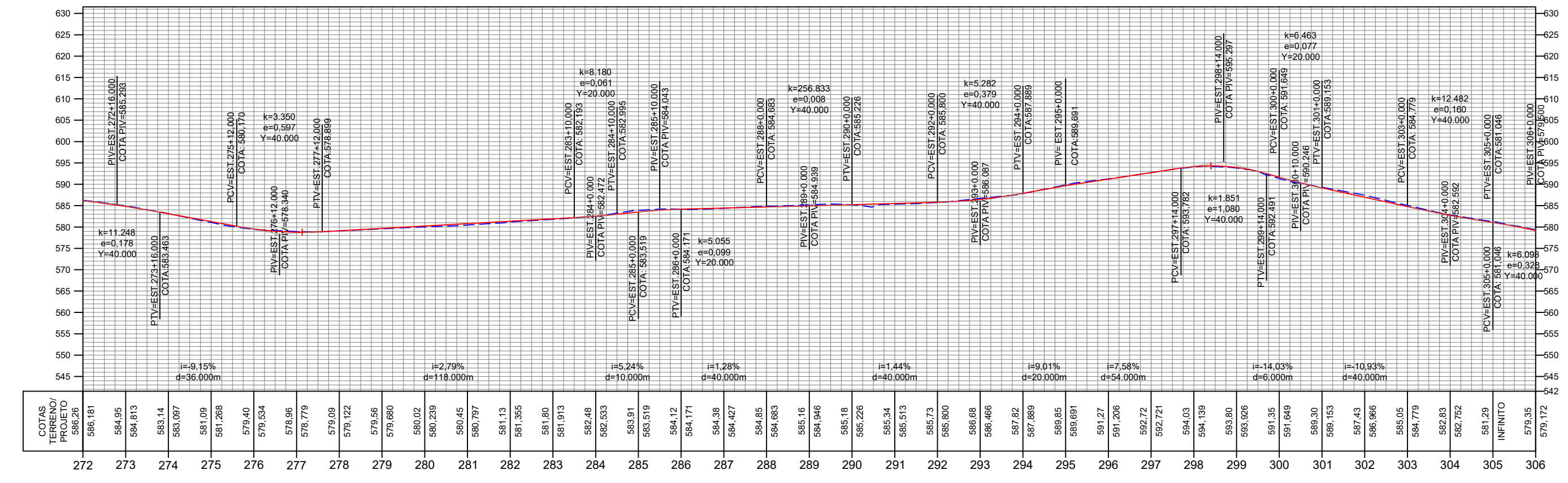
**PREFEITURA MUNICIPAL DE GUARAPARI**  
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TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 10	



**PERFIL LONGITUDINAL**

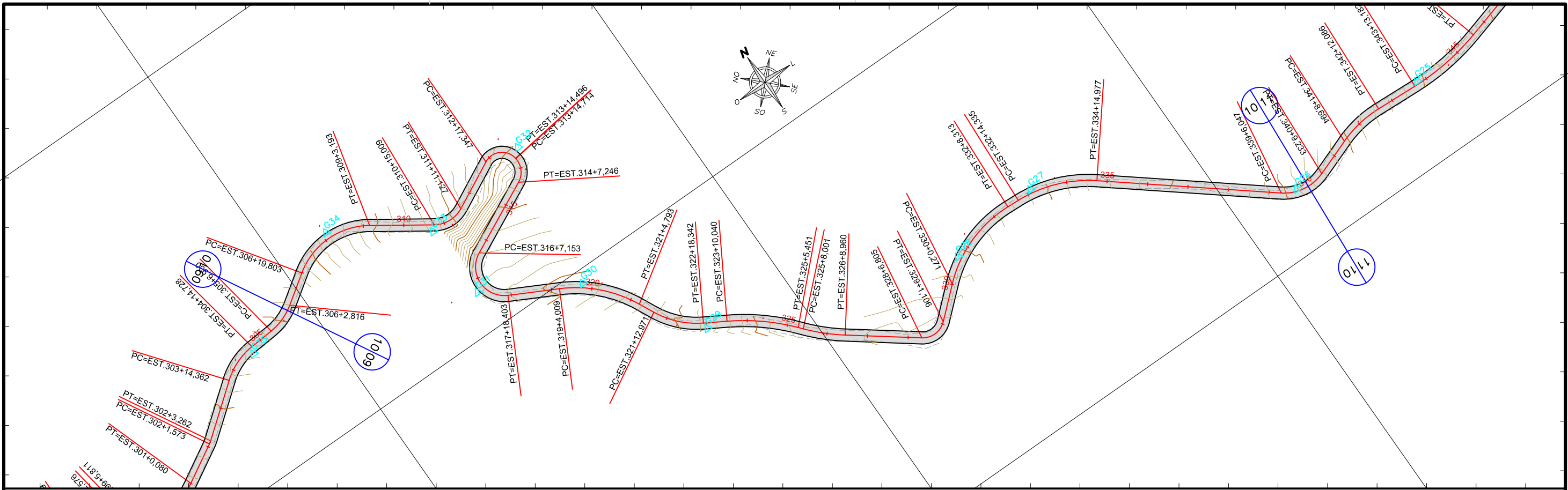


**CONVENÇÕES**

- +— EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- △ PONTOS DE APOIO
- - - TERRENO NATURAL(PERFIL)
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**PREFEITURA MUNICIPAL DE GUARAPARI**  
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<b>PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS</b>			
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
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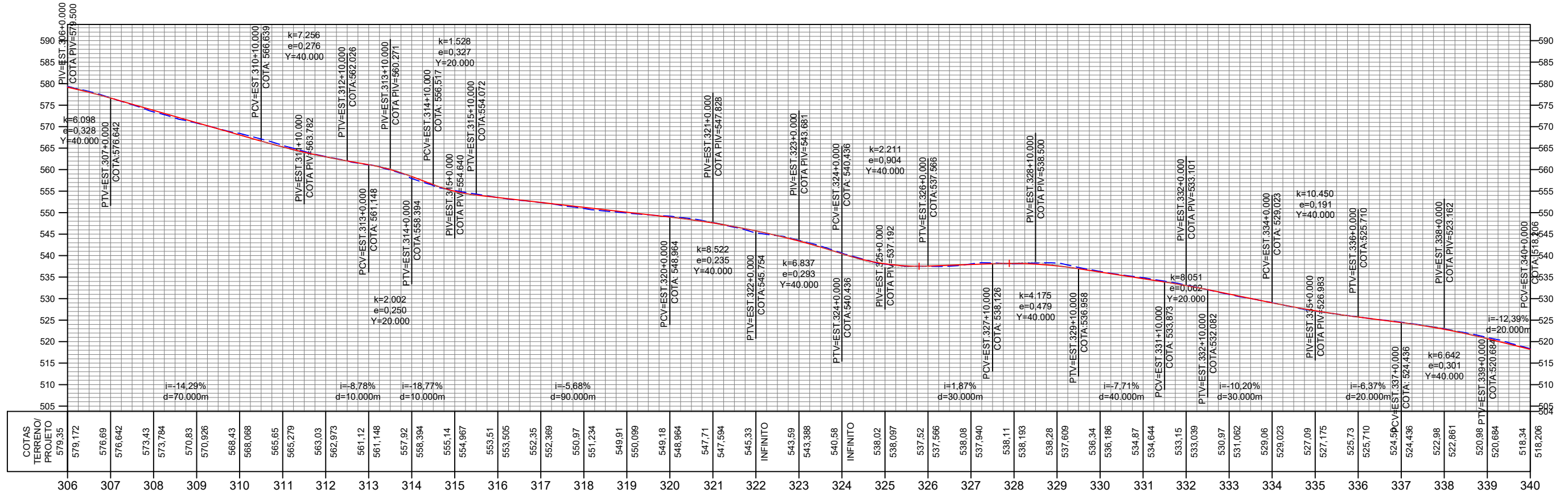


PERFIL LONGITUDINAL

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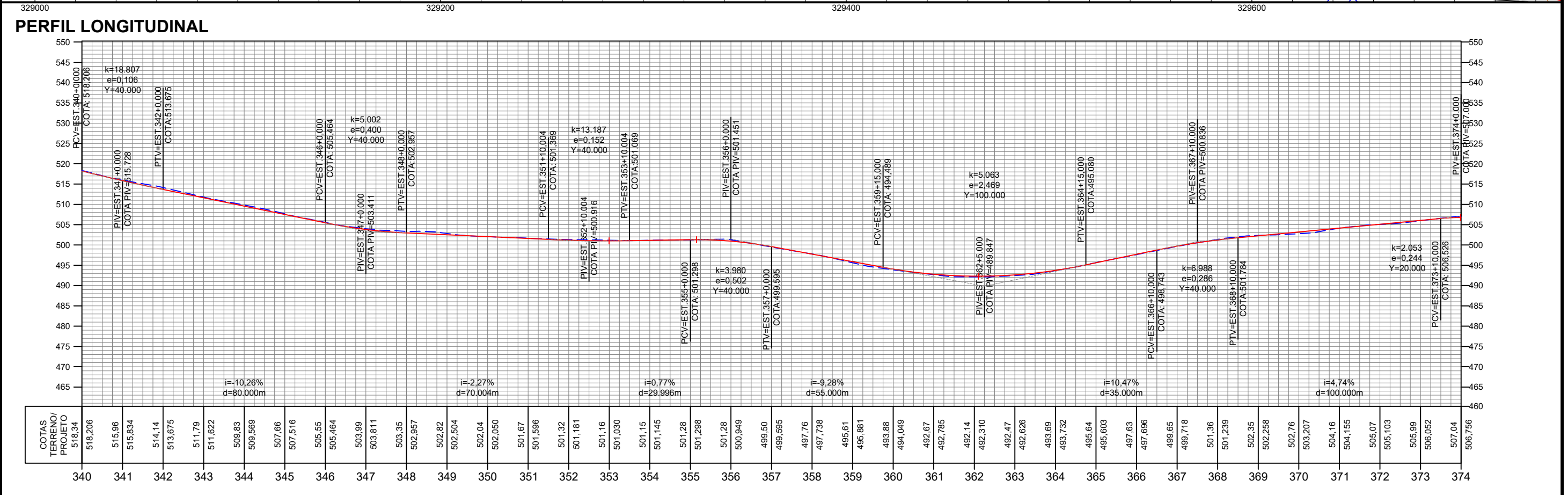
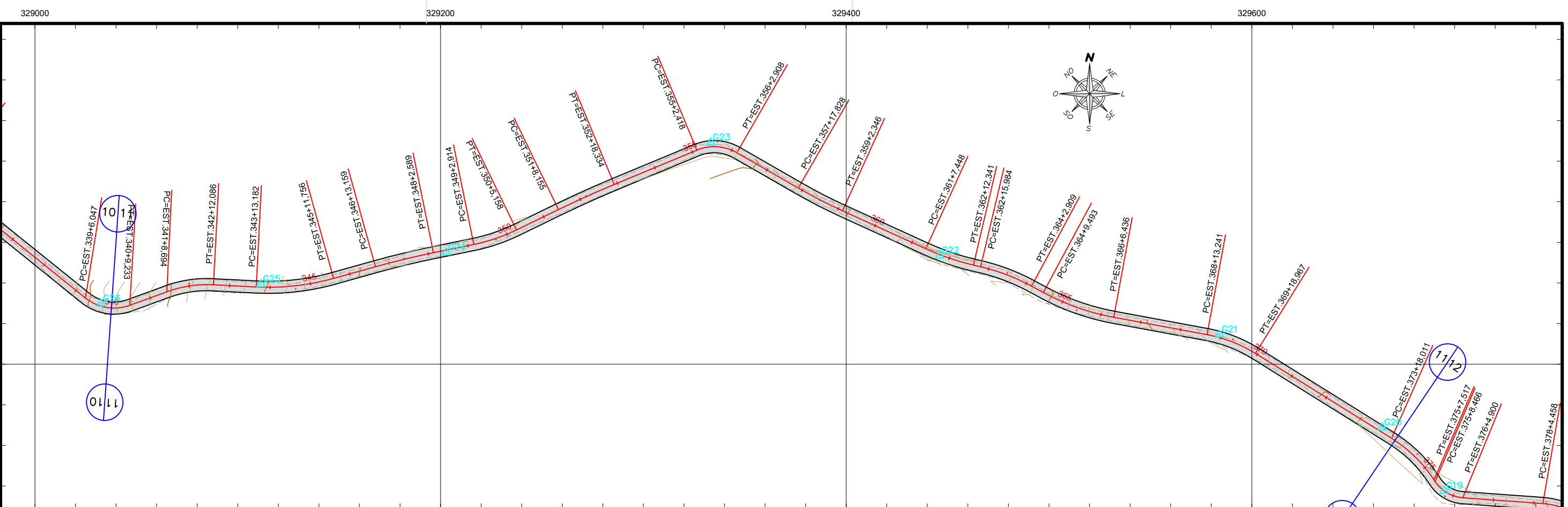
CONVENÇÕES

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 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS

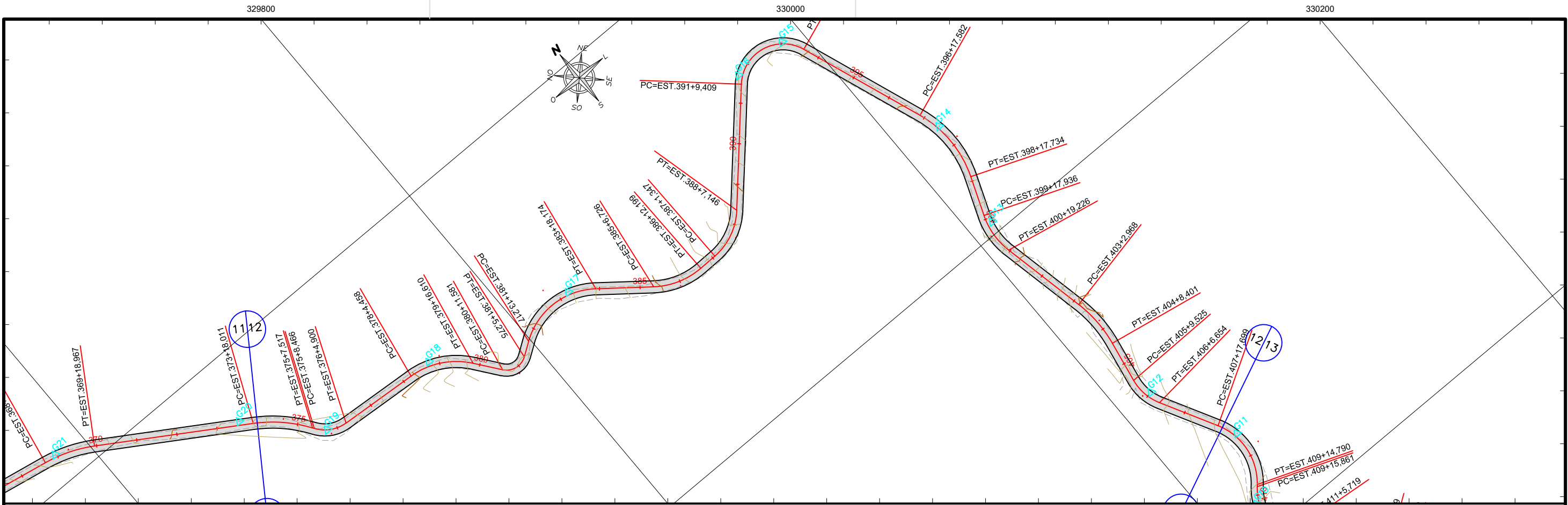
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 12	



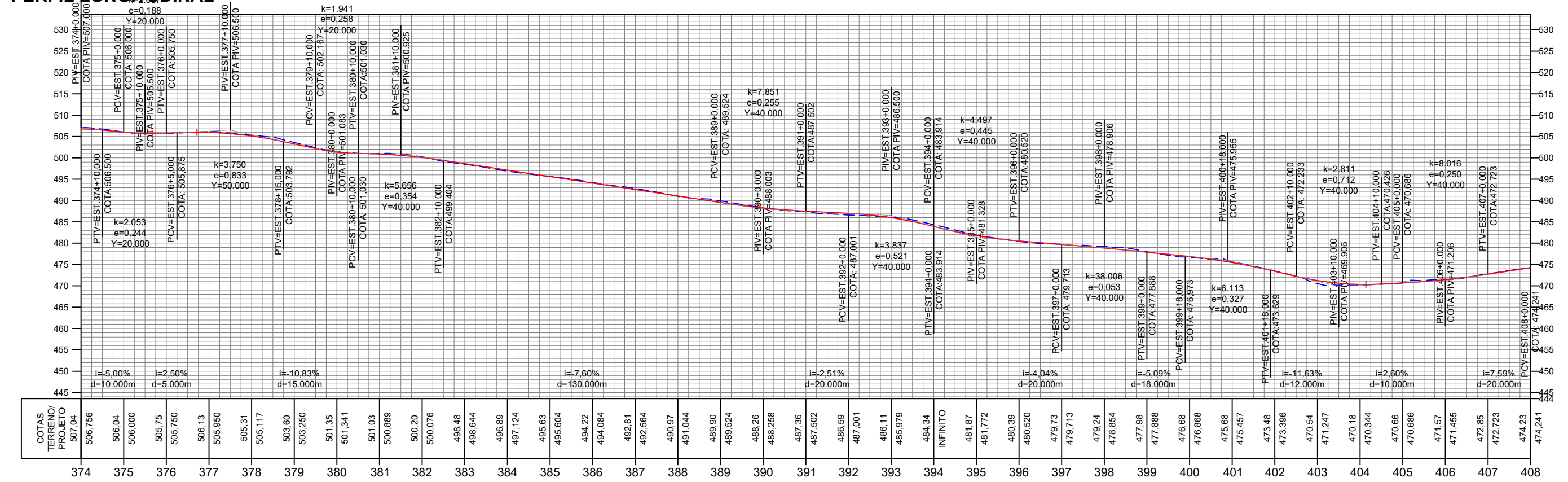
- #### CONVENÇÕES
- EIXO PROJETADO
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TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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**PERFIL LONGITUDINAL**



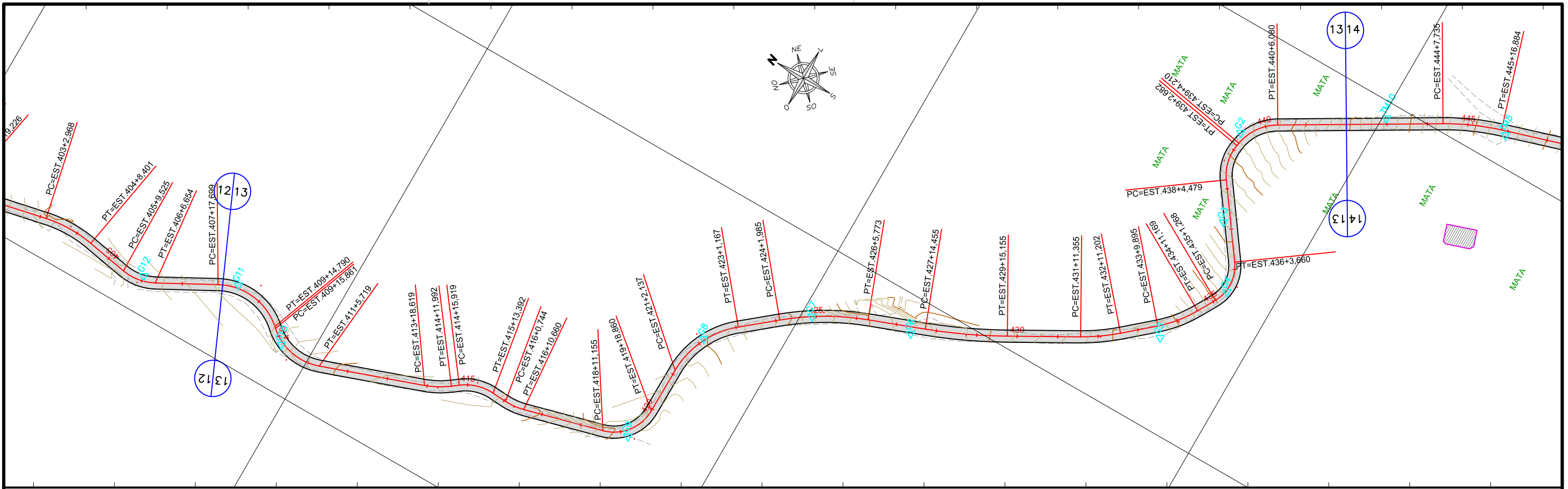
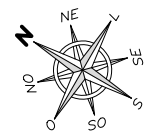
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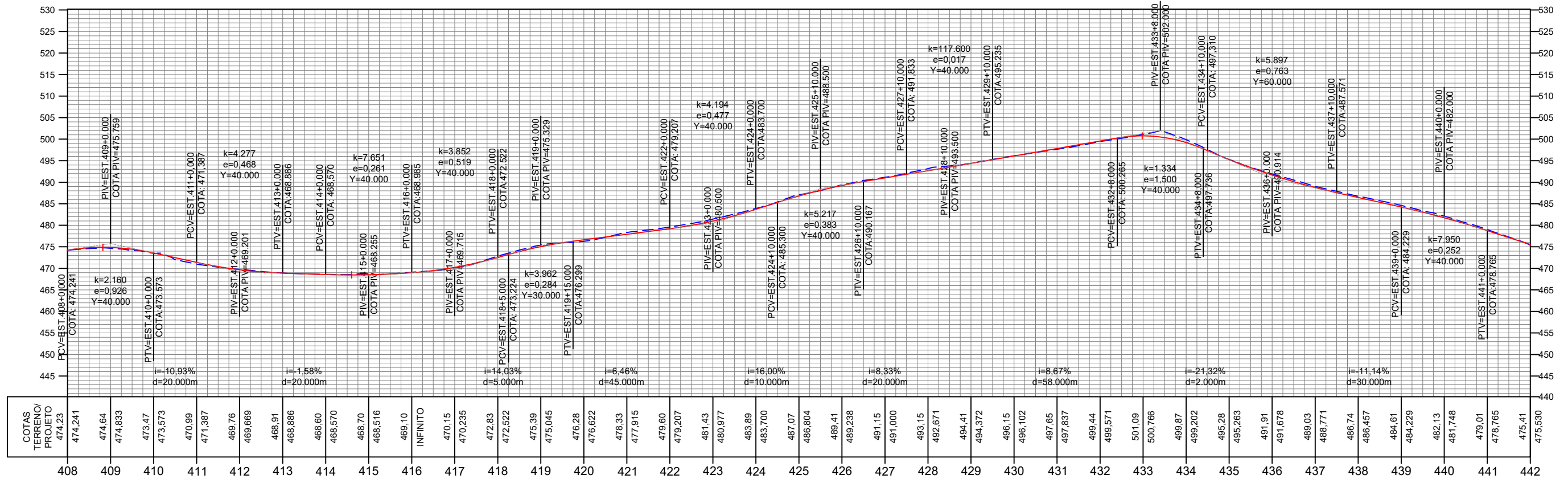
**PREFEITURA MUNICIPAL DE GUARAPARI**  
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ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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### PERFIL LONGITUDINAL

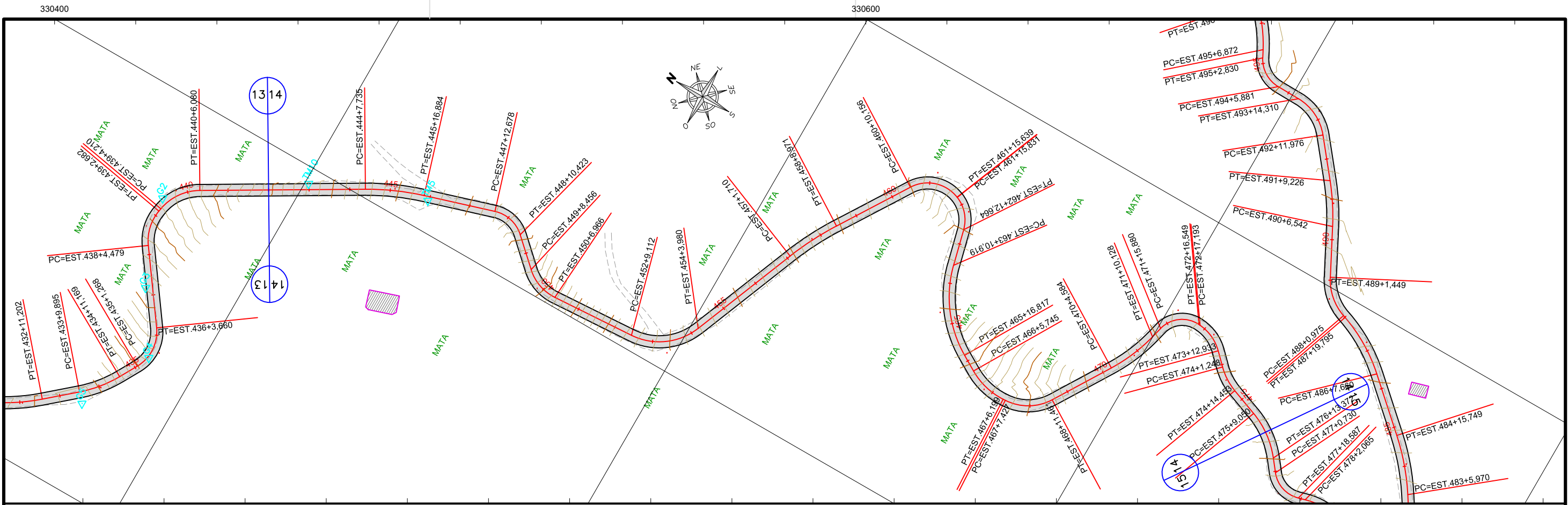


### CONVENÇÕES

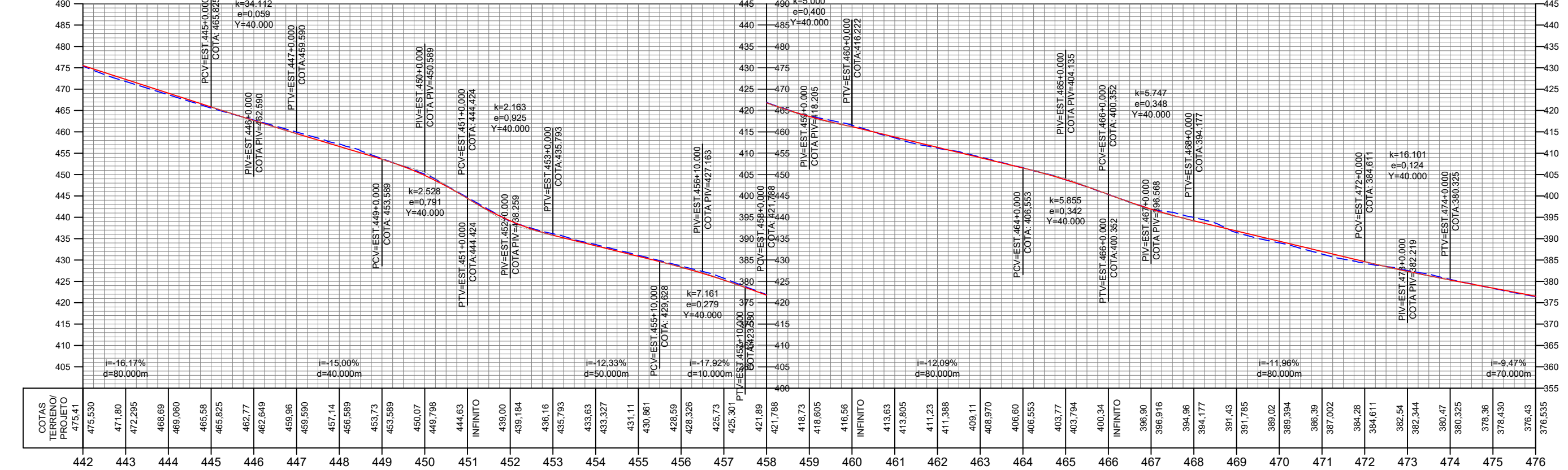
- EIXO PROJETADO
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<b>PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS</b>			
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 15	



**PERFIL LONGITUDINAL**



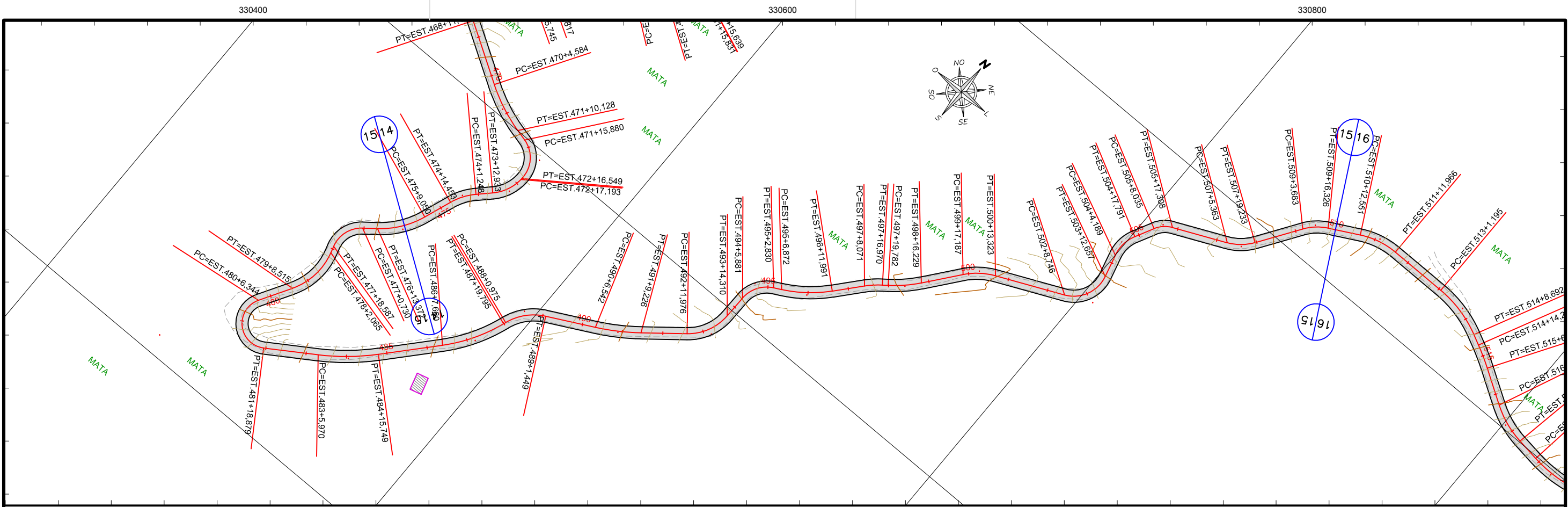
**CONVENÇÕES**

- EIXO PROJETADO
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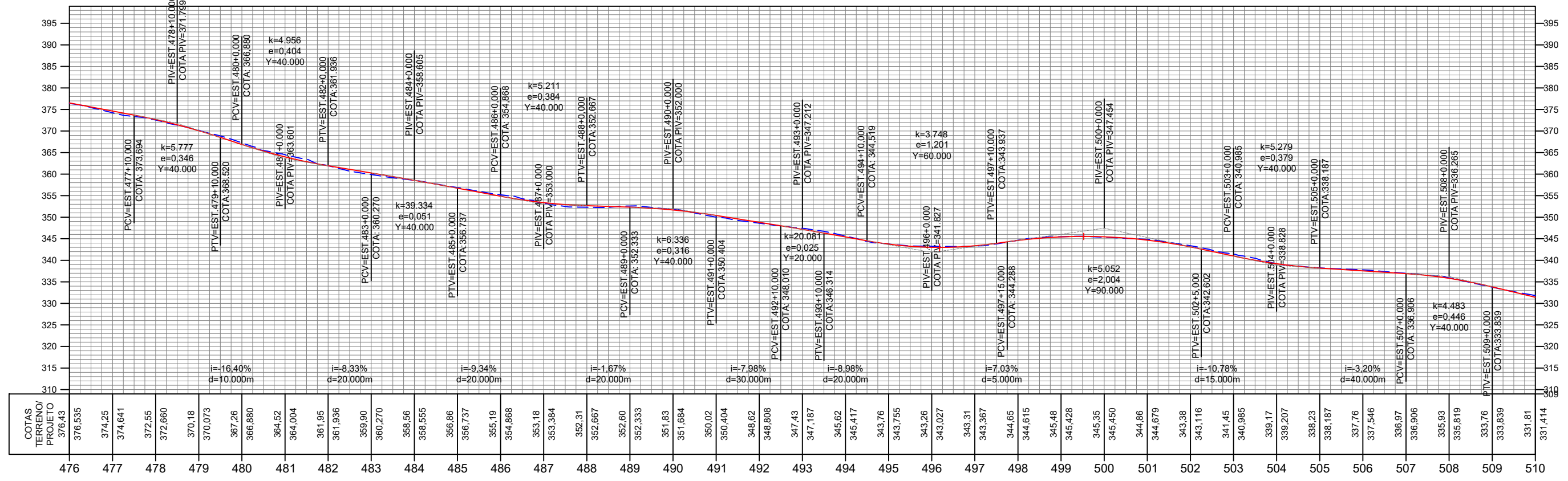
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**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

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TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
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**PERFIL LONGITUDINAL**



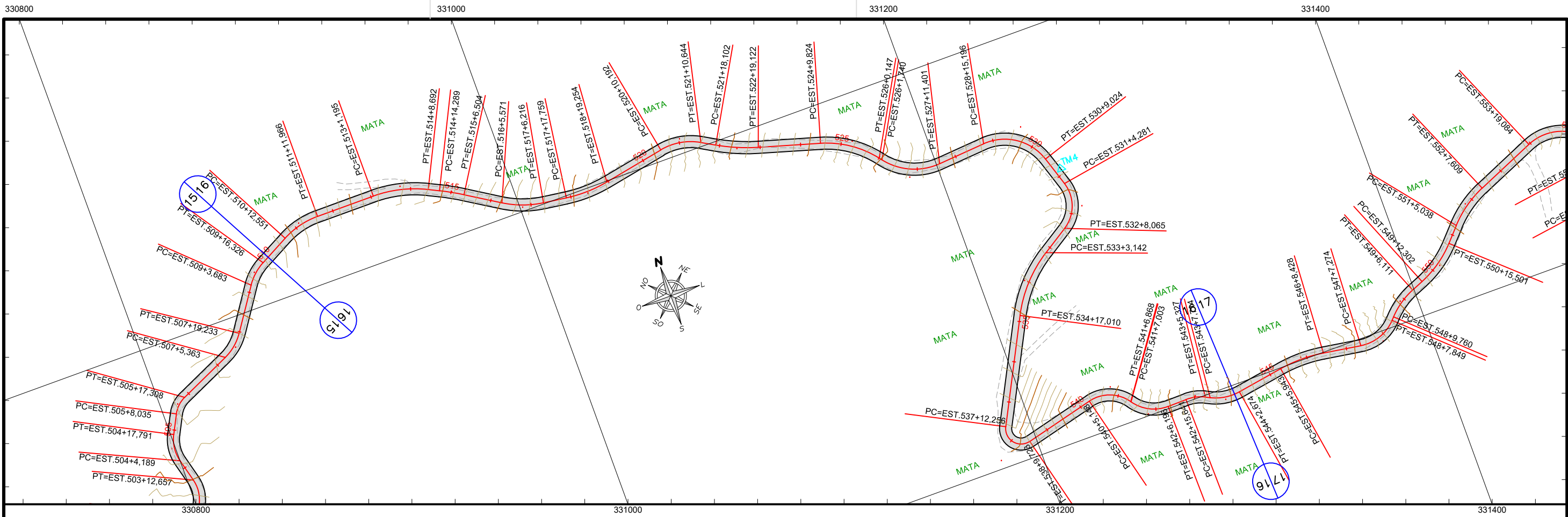
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- GREIDE DE PROJETO (PERFIL)
- MATA

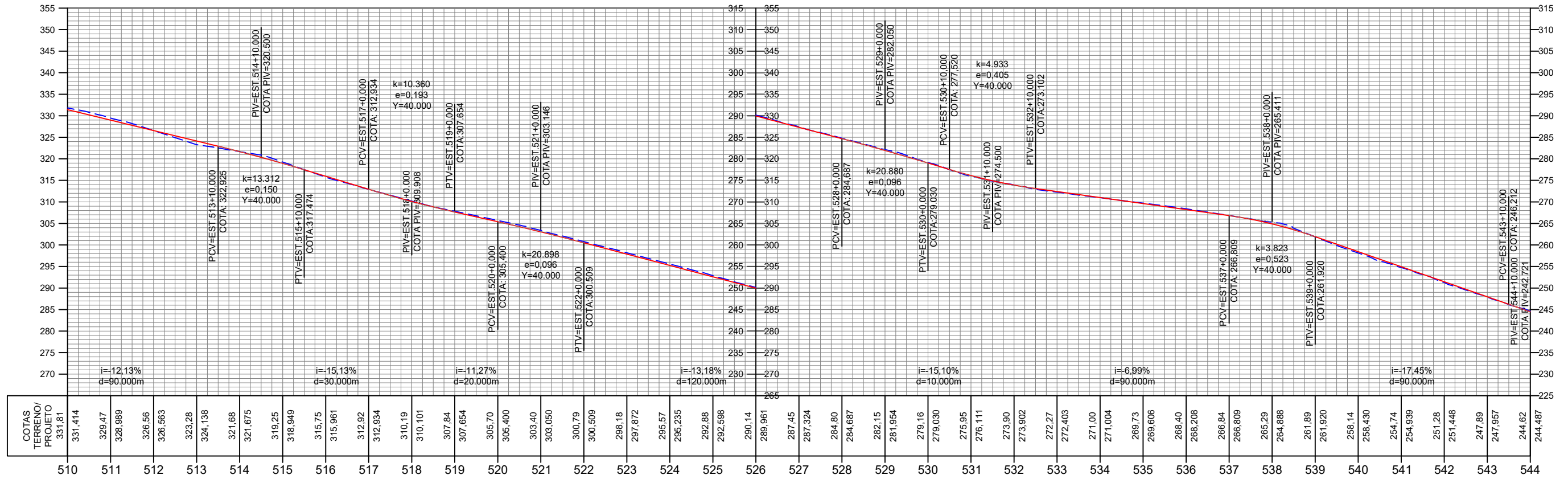
**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 17	



**PERFIL LONGITUDINAL**



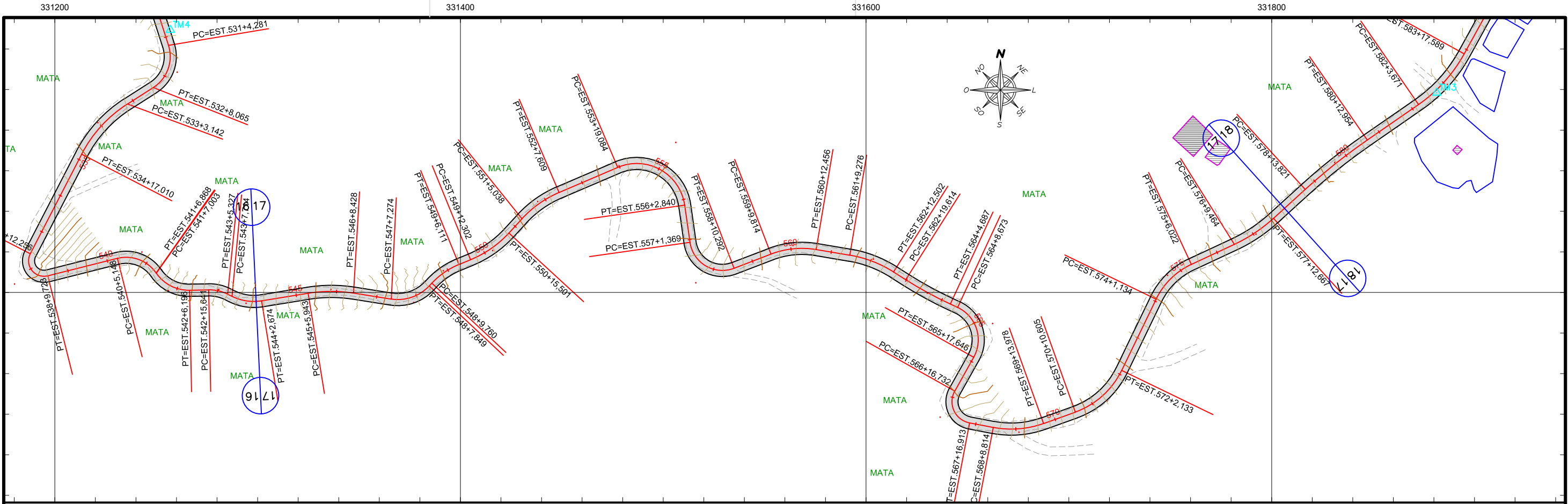
**CONVENÇÕES**

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- PONTOS DE APOIO
- TERRENO NATURAL(PERFIL)
- GREIDE DE PROJETO (PERFIL)
- MATA

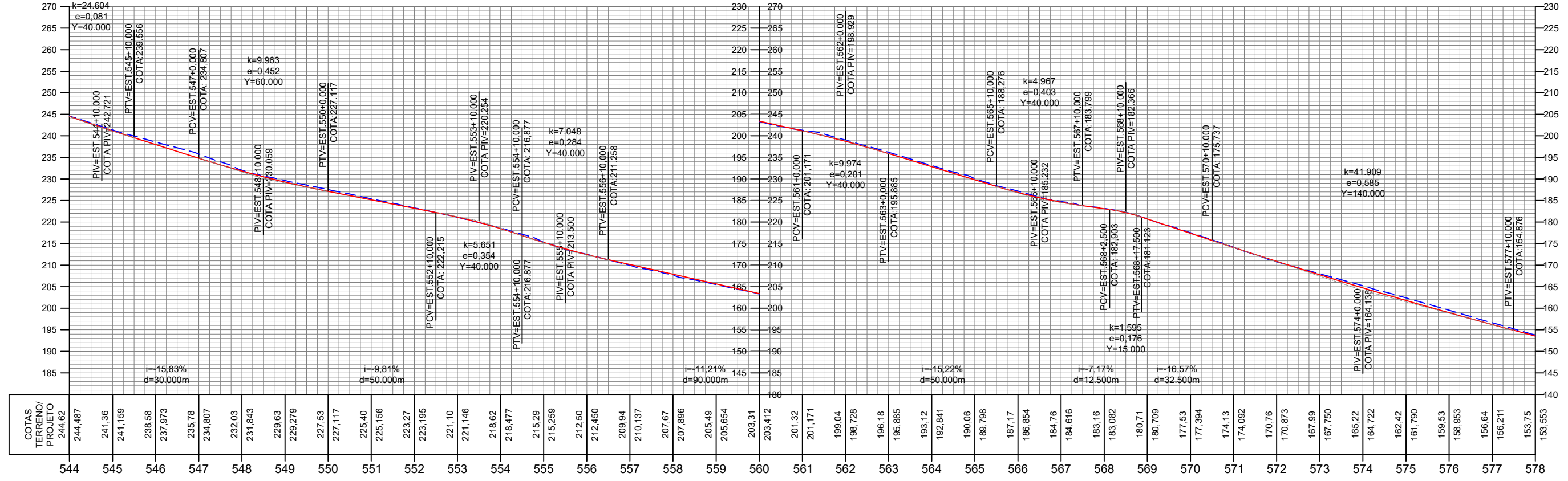
**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 18	



**PERFIL LONGITUDINAL**



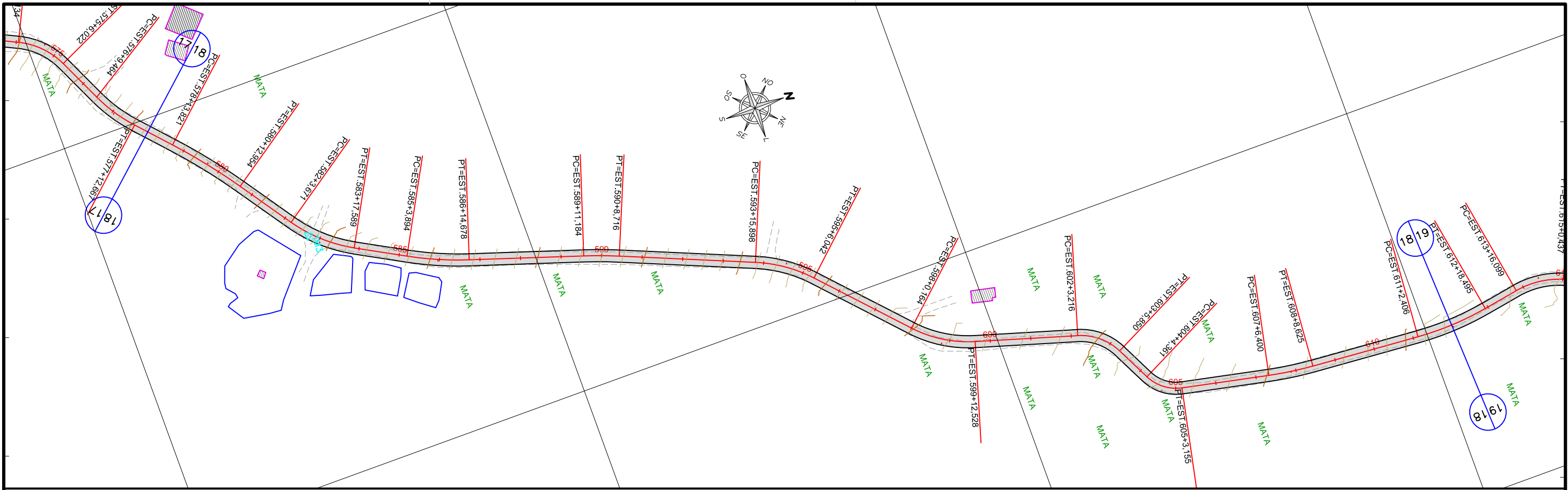
**CONVENÇÕES**

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- PONTOS DE APOIO
- TERRENO NATURAL(PERFIL)
- GREIDE DE PROJETO (PERFIL)
- MATA

**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

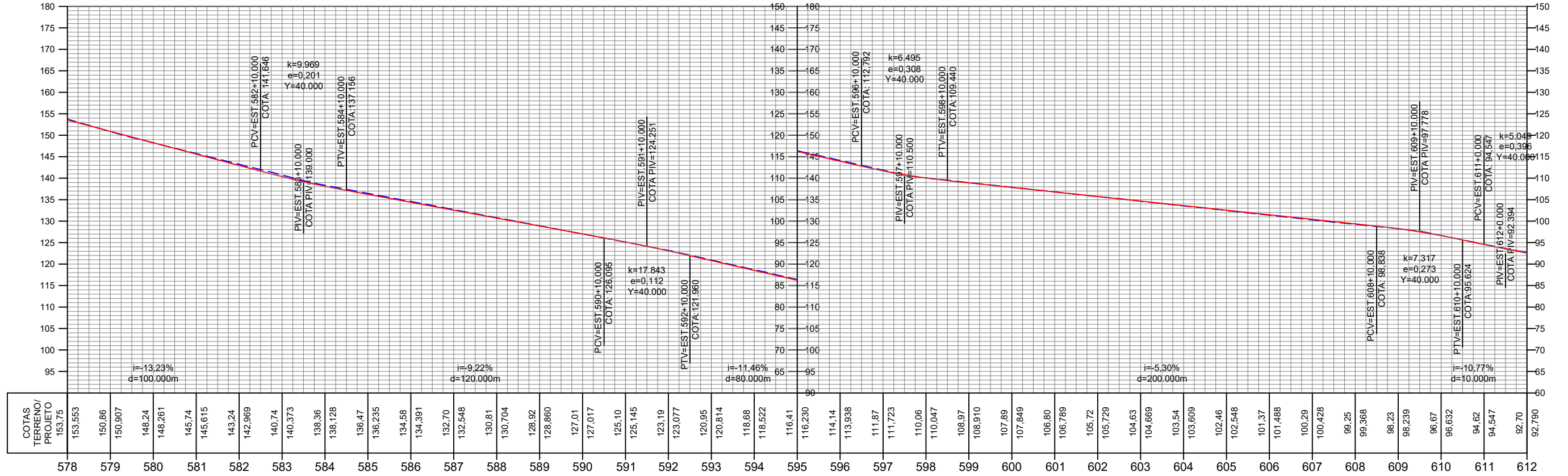
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 19	



PERFIL LONGITUDINAL

332000

332200



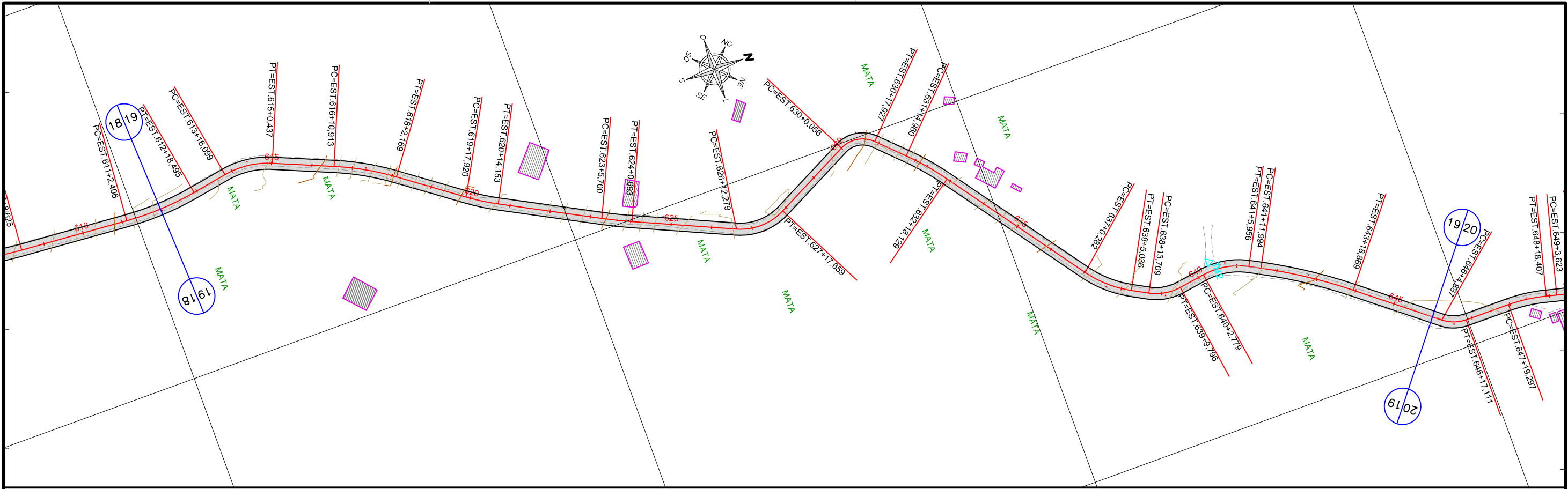
CONVENÇÕES

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- PONTOS DE APOIO
- TERRENO NATURAL(PERFIL)
- GREIDE DE PROJETO (PERFIL)
- MATA

**PREFEITURA MUNICIPAL DE GUARAPARI**  
SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

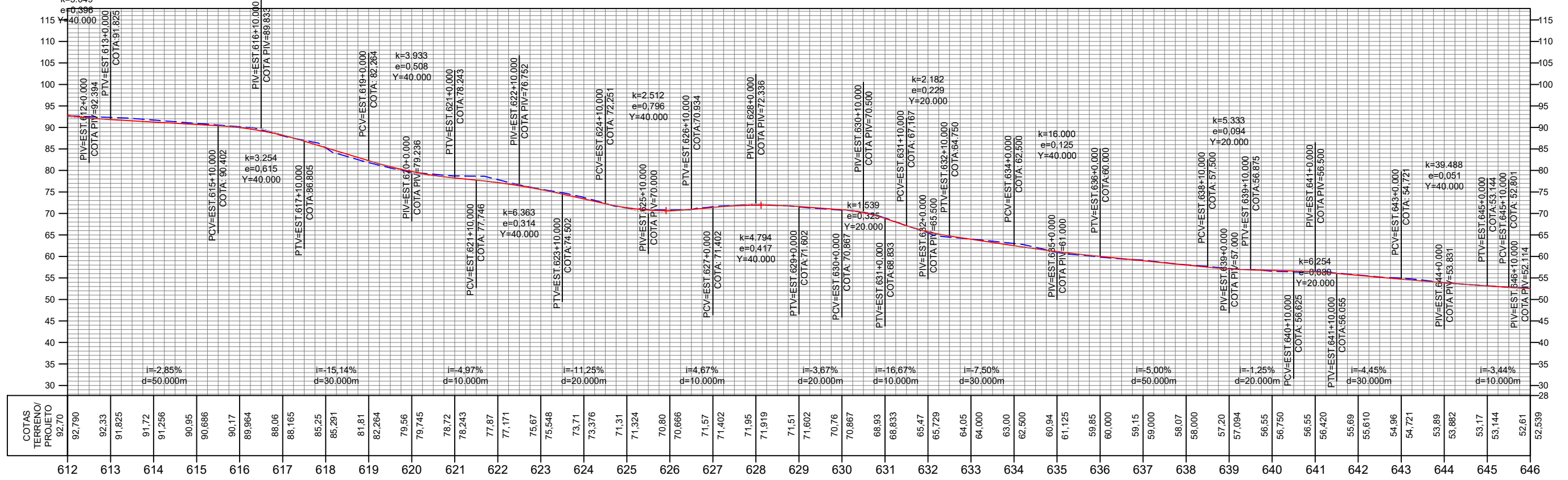
**PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS**

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 20	



332400

### PERFIL LONGITUDINAL



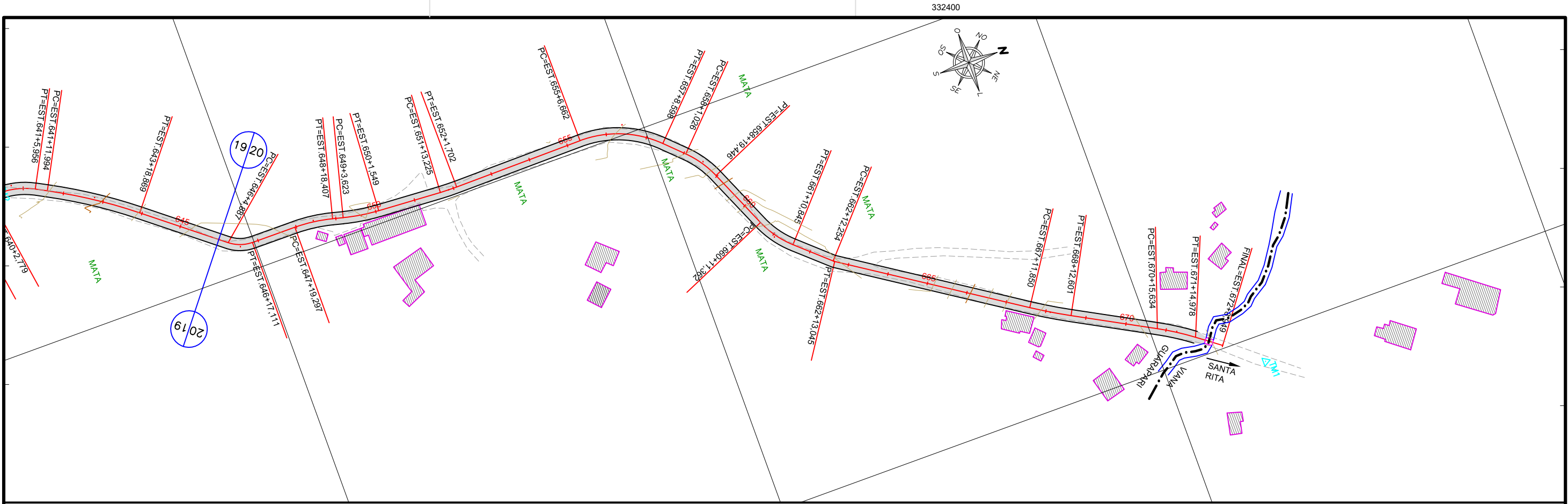
### CONVENÇÕES

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- PONTOS DE APOIO
- TERRENO NATURAL(PERFIL)
- GREIDE DE PROJETO (PERFIL)
- MATA

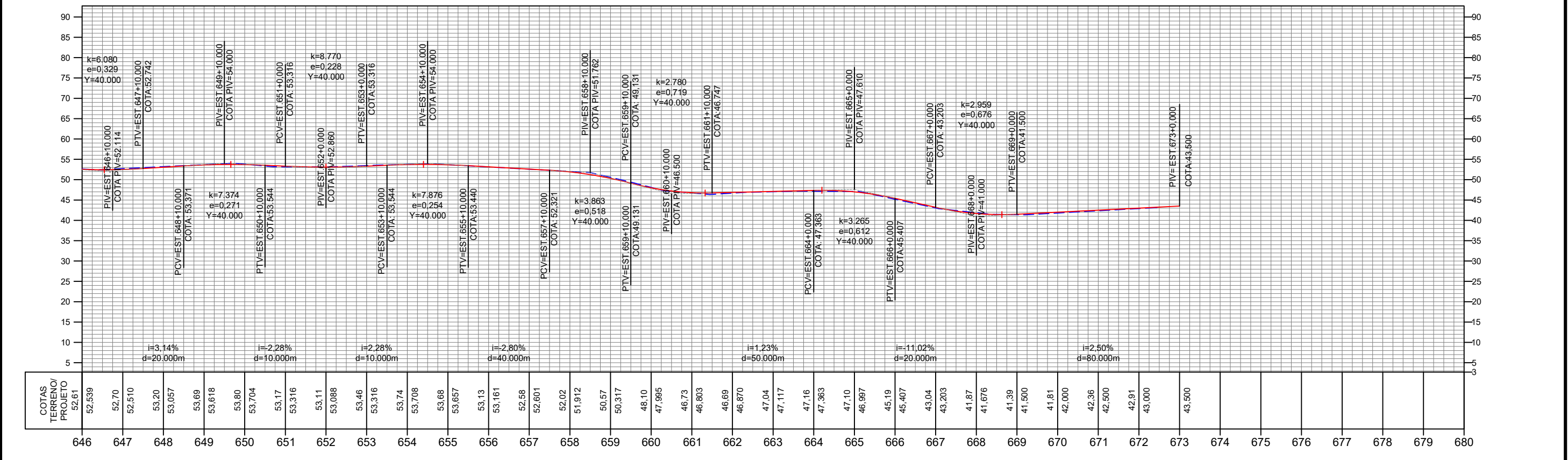
**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

### PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS

TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
		FOLHA: 21	



**PERFIL LONGITUDINAL**



**CONVENÇÕES**

- EIXO PROJETADO
- CÓRREGO / LAGOA
- EDIFICAÇÃO
- MURO
- BORDO DA PISTA EXISTENTE
- PONTES
- PONTOS DE APOIO
- TERRENO NATURAL(PERFIL)
- GREIDE DE PROJETO (PERFIL)
- MATA

**PREFEITURA MUNICIPAL DE GUARAPARI**  
 SECRETARIA MUNICIPAL DE OBRAS E SERVIÇOS PÚBLICOS

PROJETO GEOMÉTRICO BÁSICO DE VIAS RURAIS			
TÍTULO: PROJETO GEOMÉTRICO		SUBTÍTULO: PLANTA E PERFIS	
TRECHO: TODOS OS SANTOS x SANTA RITA		LOCAL: GUARAPARI - ES	
ESCALA: Hz: 1/2000 V: 1/1000	DATA: JUNHO/2019	EXT.: 13,44km	REVISÃO: 0
			FOLHA: 22



# DADOS DAS CURVAS

CURVA Nº	CURVA CIRCULAR				ESTACAS		COORDENADAS DO PI	
	R (m)	D (m)	T (m)	AC	PC	PT	Norte	Este
INICIO	---	---	---	---	0	---	7,729,936.728	325,920.218
1	225.184	38.586	19.340	09° 49' 03.9548"	5+6.073	7+4.659	7,729,885.828	326,034.837
2	748.941	19.349	9.675	01° 28' 48.8637"	12+4.339	13+3.688	7,729,814.304	326,141.827
3	449.063	48.558	24.303	06° 11' 43.7646"	14+5.286	16+13.843	7,729,784.622	326,188.812
4	180.873	65.788	33.262	20° 50' 23.5151"	18+4.232	21+10.020	7,729,729.896	326,257.666
5	115.091	36.597	18.454	18° 13' 08.3536"	21+12.873	23+9.470	7,729,713.361	326,309.669
6	296.636	35.052	17.546	06° 46' 13.3199"	25+6.958	27+2.010	7,729,670.314	326,369.230
7	191.503	49.957	25.121	14° 56' 47.9437"	32+1.879	34+11.836	7,729,601.022	326,493.790
8	50.000	31.792	16.454	36° 25' 49.6151"	35+3.195	36+14.987	7,729,588.091	326,545.121
9	50.000	35.029	18.268	40° 08' 24.3315"	40+12.733	42+7.762	7,729,630.750	326,649.185
10	86.501	33.622	17.026	22° 16' 14.2194"	43+1.182	44+14.805	7,729,673.932	326,671.731
11	130.404	31.694	15.926	13° 55' 31.8079"	47+2.592	48+14.286	7,729,726.002	326,733.436
12	256.653	39.613	19.846	08° 50' 36.1494"	49+13.098	51+12.711	7,729,770.209	326,765.453
13	76.573	26.824	13.551	20° 04' 16.8272"	54+13.673	56+0.498	7,729,854.230	326,808.396
14	60.472	31.895	16.328	30° 13' 11.3435"	56+1.377	57+13.272	7,729,875.151	326,830.943
15	37.771	13.342	6.741	20° 14' 23.1219"	58+2.182	58+15.525	7,729,905.746	326,840.252
16	87.424	24.095	12.124	15° 47' 29.0489"	59+10.820	60+14.915	7,729,932.969	326,860.888
17	56.187	21.498	10.882	21° 55' 18.7646"	60+19.365	62+0.863	7,729,958.538	326,870.894
18	37.771	13.595	6.872	20° 37' 20.2373"	63+3.429	63+17.024	7,729,987.885	326,898.542
19	35.572	18.713	9.578	30° 08' 27.1548"	64+1.010	64+19.723	7,729,996.871	326,916.897
20	33.020	24.137	12.636	41° 52' 53.2693"	66+4.996	67+9.132	7,730,036.344	326,943.296
21	32.396	25.838	13.651	45° 41' 50.5491"	67+17.422	69+3.261	7,730,044.910	326,976.795
22	68.913	32.699	16.663	27° 11' 11.4447"	72+17.092	74+9.790	7,730,135.139	327,028.802
23	41.109	33.210	17.571	46° 17' 10.5357"	74+16.036	76+9.245	7,730,175.572	327,030.760
24	86.964	30.982	15.657	20° 24' 42.8987"	77+8.268	78+19.249	7,730,209.810	327,070.228
25	66.668	32.416	16.535	27° 51' 33.2382"	80+3.642	81+16.059	7,730,259.469	327,097.355
26	95.305	28.723	14.471	17° 16' 04.2717"	83+7.583	84+16.306	7,730,321.994	327,098.215
27	129.368	29.543	14.836	13° 05' 03.9535"	84+17.126	86+6.670	7,730,350.638	327,107.552
28	85.891	31.429	15.892	20° 57' 56.5160"	86+10.615	88+2.044	7,730,380.316	327,125.482
29	122.646	28.770	14.451	13° 26' 25.4912"	88+14.019	90+2.789	7,730,421.969	327,132.958
30	61.122	37.189	19.190	34° 51' 38.1300"	90+14.452	92+11.641	7,730,467.200	327,130.376
31	52.857	39.791	20.892	43° 07' 57.9399"	93+10.352	95+10.143	7,730,513.449	327,094.077
32	77.752	27.637	13.966	20° 21' 55.3122"	96+7.741	97+15.377	7,730,565.704	327,098.654
33	50.255	31.551	16.315	35° 58' 14.5331"	97+18.542	99+10.093	7,730,595.923	327,112.984
34	67.952	39.777	20.477	33° 32' 22.3546"	101+1.030	103+0.807	7,730,662.496	327,100.526
35	56.262	33.441	17.231	34° 03' 19.8947"	105+14.081	107+7.522	7,730,746.282	327,135.987
36	19.286	21.883	12.289	65° 00' 43.4717"	107+11.219	108+13.102	7,730,764.376	327,163.844
37	38.644	32.046	17.009	47° 30' 47.5822"	109+6.792	110+18.838	7,730,741.590	327,200.297
38	104.404	33.379	16.833	18° 19' 04.7966"	111+13.249	113+6.628	7,730,754.490	327,246.794
39	64.743	50.395	26.552	44° 35' 54.3913"	114+13.763	117+4.158	7,730,751.030	327,317.229
40	75.960	38.495	19.670	29° 02' 10.9047"	118+13.742	120+12.237	7,730,801.544	327,373.753
41	132.937	24.911	12.492	10° 44' 11.7134"	120+14.005	121+18.915	7,730,833.590	327,384.899
42	52.899	28.838	14.787	31° 14' 07.2649"	123+11.470	125+0.309	7,730,892.777	327,393.682
43	121.139	45.182	22.857	21° 22' 12.4048"	125+11.896	127+17.079	7,730,930.668	327,425.113
44	159.352	28.073	14.073	10° 05' 37.5384"	128+1.257	129+9.330	7,730,969.696	327,438.025
45	84.361	39.946	20.355	27° 07' 48.7873"	130+19.935	132+19.881	7,731,034.061	327,447.314
46	191.683	27.525	13.786	08° 13' 39.3617"	133+13.275	135+0.800	7,731,072.836	327,474.812
47	131.449	25.882	12.983	11° 16' 52.8534"	138+4.822	139+10.704	7,731,153.649	327,516.192
48	72.479	25.470	12.868	20° 08' 05.1443"	139+12.526	140+17.997	7,731,180.272	327,523.743
49	42.501	18.835	9.575	25° 23' 31.2060"	141+19.539	142+18.375	7,731,215.871	327,549.577
50	83.618	26.798	13.515	18° 21' 44.7752"	144+5.346	145+12.144	7,731,265.082	327,558.766
51	29.055	18.121	9.366	35° 44' 04.8629"	146+2.377	147+0.498	7,731,294.061	327,574.788
52	38.372	26.176	13.621	39° 05' 07.4539"	147+13.286	148+19.462	7,731,329.585	327,570.555
53	48.897	25.419	13.004	29° 47' 04.5364"	149+12.149	150+17.568	7,731,362.816	327,591.555
54	109.485	24.577	12.341	12° 51' 42.6444"	153+10.034	154+14.611	7,731,440.552	327,594.955
55	163.098	23.826	11.934	08° 22' 11.7181"	155+16.545	157+0.370	7,731,485.108	327,607.200
56	57.665	23.377	11.852	23° 13' 39.8686"	159+6.438	160+9.816	7,731,554.441	327,615.709
57	75.712	18.405	9.248	13° 55' 40.6198"	161+9.126	162+7.531	7,731,589.358	327,636.051
58	119.862	50.297	25.524	24° 02' 32.9952"	164+13.829	167+4.126	7,731,667.171	327,658.800
59	75.297	33.837	17.209	25° 44' 51.7317"	168+4.815	169+18.652	7,731,730.015	327,650.252
60	137.446	32.947	16.553	13° 44' 02.9355"	170+15.761	172+8.708	7,731,778.396	327,665.974
61	75.770	32.749	16.634	24° 45' 49.6166"	172+10.675	174+3.424	7,731,808.293	327,684.465
62	108.192	31.098	15.657	16° 28' 07.3236"	177+16.691	179+7.789	7,731,913.071	327,697.278
63	42.439	32.816	17.278	44° 18' 13.9428"	180+2.792	181+15.608	7,731,960.351	327,689.369
64	49.924	43.911	23.490	50° 23' 41.9278"	183+6.328	185+10.239	7,732,019.048	327,730.176
65	42.038	23.321	11.969	31° 47' 05.5550"	186+19.961	188+3.282	7,732,081.832	327,712.661
66	361.264	58.217	29.172	09° 13' 59.4118"	189+16.929	192+15.147	7,732,153.651	327,733.522

# DADOS DAS CURVAS

CURVA Nº	CURVA CIRCULAR				ESTACAS		COORDENADAS DO PI	
	R (m)	D (m)	T (m)	AC	PC	PT	Norte	Este
67	223.606	34.739	17.404	08° 54' 04.7498"	195+2.287	196+17.026	7,732,246.677	327,744.885
68	101.390	18.705	9.379	10° 34' 12.9095"	197+2.257	198+0.962	7,732,277.471	327,753.637
69	260.879	26.637	13.330	05° 51' 00.7490"	200+7.317	201+13.954	7,732,346.241	327,760.011
70	44.265	25.072	12.882	32° 27' 11.1489"	204+7.903	205+12.976	7,732,424.891	327,775.506
71	55.157	21.093	10.677	21° 54' 39.7905"	208+6.215	209+7.308	7,732,480.508	327,828.466
72	185.306	17.335	8.674	05° 21' 35.5590"	211+3.058	212+0.393	7,732,531.708	327,848.828
73	101.489	27.102	13.632	15° 18' 01.0840"	212+8.034	213+15.136	7,732,558.380	327,862.446
74	177.802	31.970	16.028	10° 18' 07.4594"	214+4.464	215+16.433	7,732,596.551	327,870.384
75	203.906	22.909	11.467	06° 26' 13.9880"	217+4.095	218+7.004	7,732,651.690	327,871.774
76	132.665	27.517	13.808	11° 53' 02.5657"	219+7.035	220+14.552	7,732,696.567	327,877.987
77	41.492	24.475	12.605	33° 47' 51.4307"	223+13.628	224+18.103	7,732,781.849	327,872.021
78	32.006	24.047	12.623	43° 02' 56.4906"	225+2.264	226+6.312	7,732,807.353	327,886.625
79	98.647	14.613	7.320	08° 29' 14.0005"	226+11.649	227+6.262	7,732,831.960	327,880.829
80	176.366	30.321	15.198	09° 51' 01.6963"	227+11.641	229+1.963	7,732,859.761	327,878.511
81	70.913	26.191	13.246	21° 09' 41.3990"	230+3.164	231+9.355	7,732,907.800	327,865.983
82	376.818	32.315	16.167	04° 54' 48.5255"	232+17.434	234+9.749	7,732,964.918	327,872.536
83	17.360	16.043	8.646	52° 56' 49.6969"	235+7.991	236+4.034	7,733,007.956	327,873.762
84	11.752	14.313	8.196	69° 46' 51.5598"	236+12.446	237+6.759	7,733,022.592	327,894.341
85	199.477	38.311	19.215	11° 00' 14.5958"	238+4.989	240+3.300	7,733,066.635	327,882.373
86	23.036	20.970	11.274	52° 09' 26.2665"	241+1.081	242+2.051	7,733,114.775	327,878.839
87	23.407	18.825	9.955	46° 04' 43.6926"	242+19.426	243+18.251	7,733,140.627	327,907.509
88	23.861	22.669	12.271	54° 25' 57.0855"	244+4.959	245+7.628	7,733,169.547	327,908.458
89	86.963	47.008	24.093	30° 58' 15.8978"	246+10.980	248+17.988	7,733,202.669	327,958.148
90	79.345	37.475	19.094	27° 03' 40.0171"	250+16.386	252+13.861	7,733,276.404	327,993.067
91	63.321	18.284	9.206	16° 32' 38.5712"	252+14.011	253+12.295	7,733,304.841	327,992.213
92	34.708	18.621	9.540	30° 44' 22.6163"	254+16.020	255+14.641	7,733,345.173	327,978.903
93	64.176	35.328	18.124	31° 32' 25.7167"	257+9.689	259+5.017	7,733,406.405	327,992.451
94	41.922	21.327	10.899	29° 08' 50.4970"	260+4.656	261+5.983	7,733,452.398	327,976.556
95	40.841	24.316	12.530	34° 06' 45.0369"	261+18.659	263+2.974	7,733,487.946	327,982.877
96	23.784	24.814	13.670	59° 46' 40.7583"	264+9.115	265+13.929	7,733,535.751	327,961.564
97	29.971	22.434	11.772	42° 53' 13.3752"	267+4.639	268+7.073	7,733,581.323	327,994.369
98	139.722	41.213	20.757	16° 54' 00.7246"	269+16.074	271+17.287	7,733,642.376	327,986.722
99	25.109	19.380	10.201	44° 13' 19.1643"	272+2.187	273+1.566	7,733,677.715	327,992.802
100	48.555	24.132	12.321	28° 28' 36.0773"	274+11.801	275+15.933	7,733,708.737	328,035.474
101	96.403	36.083	18.255	21° 26' 43.9488"	278+7.899	280+3.982	7,733,719.568	328,117.302
102	140.001	58.367	29.614	23° 53' 13.3038"	281+17.482	284+15.850	7,733,700.013	328,196.287
103	11.752	1.405	0.703	06° 50' 51.1721"	286+10.292	286+11.696	7,733,711.237	328,260.066
104	24.360	37.728	23.829	88° 44' 15.0254"	288+0.445	289+18.172	7,733,726.663	328,311.064
105	28.378	22.652	11.968	45° 44' 05.3356"	291+0.187	292+2.839	7,733,671.709	328,329.017
106	40.026	24.467	12.629	35° 01' 27.6359"	297+18.109	299+2.576	7,733,610.014	328,454.543
107	94.242	34.269	17.326	20° 50' 03.4390"	299+5.811	301+0.080	7,733,615.120	328,487.338
108	11.752	1.689	0.846	08° 14' 03.7307"	302+1.573	302+3.262	7,733,634.763	328,521.797
109	34.553	20.366	10.488	33° 46' 14.4983"	303+14.362	304+14.728	7,733,660.841	328,555.272
110	30.067	15.885	8.133	30° 16' 16.9482"	305+6.930	306+2.816	7,733,663.071	328,586.015
111	36.118	43.390	24.745	68° 49' 55.9313"	306+19.803	309+3.193	7,733,691.258	328,627.150
112	15.097	16.118	8.923	61° 10' 11.6512"	310+15.009	311+11.127	7,733,654.249	328,681.174
113	8.976	17.149	12.693	109° 27' 58.8449"	312+17.347	313+14.496	7,733,675.786	328,723.887
114	10.059	12.532	7.226	71° 22' 49.1462"	313+14.714	314+7.246	7,733,655.812	328,726.443
115	14.159	31.250	28.062	126° 27' 01.7875"	316+7.153	317+18.403	7,733,622.954	328,658.807
116	63.830	40.784	21.115	36° 36' 31.6261"	319+4.009	321+4.793	7,733,588.263	328,725.057
117	43.000	25.371	13.067	33° 48' 17.8625"	321+12.971	322+18.342	7,733,550.110	328,743.461
118	105.329	35.412	17.875	19° 15' 47.2054"	323+10.040	325+5.451	7,733,528.506	328,780.222
119	95.484	20.958	10.522	12° 34' 34.6636"	325+8.001	326+8.960	7,733,504.902	328,800.235
120	10.425	14.301	8.532	78° 35' 40.7121"	328+6.805	329+1.106	7,733,470.557	328,845.599
121	61.907	48.041	25.304	44° 27' 46.7727"	330+0.271	332+8.313	7,733,505.653	328,885.316
122	64.963	40.643	21.011	35° 50' 44.9141"	332+14.335	334+14.977	7,733,502.916	328,937.581
123	22.571	23.187	12.733	58° 51' 31.2184"	339+6.047	340+9.233	7,733,424.633	329,034.794
124	58.351	23.392	11.855	22° 58' 09.9124"	341+8.694	342+12.086	7,733,439.710	329,076.183
125	119.093	38.574	19.458	18° 33' 29.5062"	343+13.182	345+11.756	7,733,437.009	329,128.522
126	416.371	29.430	14.721	04° 02' 59.1092"	346+13.159	348+2.589	7,733,451.960	329,182.055
127	88.929	22.244	11.180	14° 19' 53.9090"	349+2.914	350+5.158	7,733,461.219	329,227.344
128	514.662	30.179	15.094	03° 21' 34.9225"	351+8.155	352+18.334	7,733,482.730	329,271.672
129	22.412	20.491	11.024	52° 23' 03.1505"	355+2.418	356+2.908	7,733,509.624	329,336.517
130	262.668	24.517	12.268	05° 20' 52.7607"	357+17.828	359+2.346	7,733,480.643	329,387.002
131	126.732	24.893	12.487	11° 15' 14.6342"	361+7.448	362+12.341	7,733,451.663	329,450.564
132	102.525	26.925	13.541	15° 02' 49.2850"	362+15.984	364+2.909	7,733,444.860	329,479.444
133	118.821	36.942	18.621	17° 48' 49.2082"	364+9.493	366+6.436	7,733,426.489	329,513.558

# DADOS DAS CURVAS

CURVA Nº	CURVA CIRCULAR				ESTACAS		COORDENADAS DO PI	
	R (m)	D (m)	T (m)	AC	PC	PT	Norte	Este
134	68.818	25.726	13.015	21° 25' 09.2269"	368+13.241	369+18.967	7,733,412.209	329,590.689
135	68.002	29.505	14.989	24° 51' 36.4510"	373+18.011	375+7.517	7,733,355.627	329,681.561
136	17.890	16.434	8.848	52° 37' 57.7047"	375+8.466	376+4.900	7,733,334.894	329,695.144
137	38.167	32.152	17.100	48° 16' 01.6267"	378+4.458	379+16.610	7,733,330.170	329,760.479
138	9.058	13.695	8.540	86° 37' 36.2455"	380+11.581	381+5.275	7,733,297.994	329,785.255
139	35.640	44.957	26.025	72° 16' 29.1503"	381+13.217	383+18.174	7,733,321.900	329,820.401
140	37.368	25.473	13.253	39° 03' 23.0742"	385+6.726	386+12.199	7,733,280.091	329,873.815
141	31.514	25.799	13.672	46° 54' 19.5720"	387+1.347	388+7.146	7,733,280.724	329,909.882
142	20.611	42.277	33.982	117° 31' 29.3445"	391+9.409	393+11.686	7,733,362.294	329,983.558
143	55.384	40.152	21.004	41° 32' 16.0507"	396+17.582	398+17.734	7,733,248.983	330,025.667
144	36.713	21.290	10.954	33° 13' 32.3974"	399+17.936	400+19.226	7,733,200.337	330,006.845
145	65.615	25.433	12.878	22° 12' 29.4258"	403+2.968	404+8.401	7,733,134.258	330,020.980
146	25.383	17.129	8.905	38° 39' 53.6996"	405+9.525	406+6.654	7,733,092.020	330,013.430
147	30.478	37.091	21.233	69° 43' 38.4896"	407+17.699	409+14.790	7,733,038.267	330,042.653
148	28.155	29.858	16.506	60° 45' 39.6722"	409+15.861	411+5.719	7,733,009.065	330,017.091
149	43.609	13.373	6.740	17° 34' 13.6810"	413+18.619	414+11.992	7,732,937.315	330,042.590
150	24.614	17.472	9.123	40° 40' 19.4787"	414+15.919	415+13.392	7,732,921.539	330,054.536
151	30.572	9.916	5.002	18° 34' 58.3127"	416+0.744	416+10.660	7,732,900.103	330,053.211
152	21.342	27.705	16.193	74° 22' 41.8980"	418+11.155	419+18.860	7,732,840.528	330,069.225
153	44.870	39.030	20.846	49° 50' 21.6162"	421+2.137	423+1.167	7,732,839.921	330,129.538
154	133.271	43.788	22.093	18° 49' 30.4569"	424+1.985	426+5.773	7,732,790.784	330,170.165
155	268.395	40.700	20.389	08° 41' 18.3228"	427+14.455	429+15.155	7,732,724.240	330,195.389
156	98.630	19.847	9.957	11° 31' 45.2982"	431+11.355	432+11.202	7,732,666.291	330,228.105
157	61.921	21.274	10.743	19° 41' 05.2011"	433+9.895	434+11.169	7,732,636.551	330,253.937
158	19.702	22.392	12.580	65° 06' 58.4044"	435+1.268	436+3.660	7,732,620.175	330,283.073
159	22.760	18.202	9.619	45° 49' 18.9455"	438+4.479	439+2.682	7,732,657.018	330,334.199
160	25.307	21.870	11.670	49° 30' 49.6381"	439+4.210	440+6.080	7,732,653.039	330,356.667
161	127.279	29.149	14.639	13° 07' 18.3241"	444+7.735	445+16.884	7,732,559.958	330,411.370
162	16.976	17.745	9.779	59° 53' 23.1547"	447+12.678	448+10.423	7,732,502.477	330,429.296
163	22.967	18.509	9.790	46° 10' 33.6452"	449+8.456	450+6.966	7,732,474.783	330,403.858
164	30.929	34.868	19.550	64° 35' 34.1079"	452+9.112	454+3.980	7,732,403.438	330,408.355
165	148.860	27.262	13.669	10° 29' 34.6120"	457+1.710	458+8.971	7,732,369.662	330,492.799
166	18.375	25.483	15.272	79° 27' 45.0313"	460+10.156	461+15.639	7,732,332.197	330,552.078
167	17.850	16.833	9.101	54° 01' 57.2964"	461+15.831	462+12.664	7,732,309.383	330,542.973
168	57.863	45.897	24.233	45° 26' 50.9668"	463+10.919	465+16.817	7,732,296.717	330,492.962
169	35.193	20.454	10.525	33° 17' 56.4751"	466+5.745	467+6.199	7,732,259.015	330,470.894
170	24.868	24.034	13.049	55° 22' 25.4226"	467+7.427	468+11.461	7,732,234.247	330,472.174
171	83.609	25.544	12.872	17° 30' 17.2106"	470+4.584	471+10.128	7,732,203.248	330,522.427
172	14.793	20.668	12.424	80° 03' 07.9497"	471+15.880	472+16.549	7,732,195.651	330,552.532
173	22.113	15.740	8.220	40° 46' 56.6885"	472+17.193	473+12.933	7,732,174.420	330,550.967
174	30.766	13.205	6.706	24° 35' 27.8191"	474+1.248	474+14.453	7,732,157.986	330,534.534
175	44.289	24.322	12.476	31° 27' 53.7649"	475+9.050	476+13.372	7,732,126.327	330,522.756
176	15.021	17.857	10.154	68° 07' 02.7139"	477+0.730	477+18.587	7,732,107.812	330,499.166
177	32.326	26.449	14.015	46° 52' 48.3474"	478+2.065	479+8.515	7,732,081.268	330,506.900
178	12.140	32.535	51.664	153° 33' 11.8534"	480+6.344	481+18.879	7,732,009.414	330,464.348
179	113.092	29.780	14.976	15° 05' 13.7605"	483+5.970	484+15.749	7,732,060.352	330,543.030
180	81.375	32.135	16.280	22° 37' 34.7205"	486+7.660	487+19.795	7,732,107.299	330,585.292
181	27.155	20.474	10.751	43° 11' 53.4906"	488+0.975	489+1.449	7,732,133.913	330,594.647
182	113.706	22.684	11.380	11° 25' 48.4282"	490+6.542	491+9.226	7,732,155.670	330,636.560
183	25.465	22.334	11.942	50° 14' 58.7614"	492+11.976	493+14.310	7,732,184.580	330,672.434
184	15.771	16.949	9.397	61° 34' 34.7573"	494+5.881	495+2.830	7,732,217.486	330,672.943
185	67.118	25.119	12.708	21° 26' 33.2935"	495+6.872	496+11.991	7,732,229.575	330,696.128
186	42.053	8.899	4.466	12° 07' 27.8731"	497+8.071	497+16.970	7,732,254.664	330,717.953
187	64.675	16.447	8.268	14° 34' 13.6527"	497+19.782	498+16.229	7,732,263.989	330,730.393
188	34.309	16.135	8.220	26° 56' 46.8771"	499+17.187	500+13.323	7,732,293.264	330,753.741
189	17.112	23.911	14.374	80° 03' 43.4265"	502+8.746	503+12.657	7,732,317.305	330,806.544
190	18.577	13.603	7.123	41° 57' 12.7946"	504+4.189	504+17.791	7,732,349.275	330,798.251
191	13.936	9.272	4.815	38° 07' 19.4681"	505+8.035	505+17.308	7,732,368.966	330,808.463
192	25.220	13.870	7.115	31° 30' 34.0706"	507+5.363	507+19.233	7,732,385.526	330,844.858
193	25.875	12.642	6.450	27° 59' 41.0181"	509+3.683	509+16.326	7,732,417.034	330,866.130
194	39.735	19.415	9.905	27° 59' 45.0200"	510+12.551	511+11.966	7,732,432.320	330,894.902
195	60.020	27.497	13.994	26° 14' 55.4306"	513+1.195	514+8.692	7,732,432.306	330,948.030
196	120.061	12.215	6.113	05° 49' 44.5682"	514+14.289	515+6.504	7,732,420.932	330,971.081
197	48.788	20.645	10.479	24° 14' 43.7378"	516+5.571	517+6.216	7,732,401.987	331,001.290
198	66.441	21.496	10.843	18° 32' 12.6549"	517+17.759	518+19.254	7,732,397.499	331,033.847
199	29.035	20.452	10.671	40° 21' 29.1425"	520+10.192	521+10.644	7,732,407.228	331,085.388

# DADOS DAS CURVAS

CURVA Nº	CURVA CIRCULAR				ESTACAS		COORDENADAS DO PI	
	R (m)	D (m)	T (m)	AC	PC	PT	Norte	Este
200	90.217	21.020	10.558	13° 20' 57.6145"	521+18.102	522+19.122	7,732,393.029	331,110.314
201	48.633	30.323	15.672	35° 43' 27.7598"	524+9.824	526+0.147	7,732,377.032	331,164.952
202	30.114	29.662	16.159	56° 26' 04.8801"	526+1.740	527+11.401	7,732,350.677	331,185.511
203	25.333	33.828	19.974	76° 30' 26.4135"	528+15.196	530+9.024	7,732,355.265	331,245.262
204	18.075	23.784	13.968	75° 23' 27.3107"	531+4.281	532+8.065	7,732,308.444	331,260.371
205	64.313	33.868	17.336	30° 10' 20.6981"	533+3.142	534+17.010	7,732,283.528	331,221.250
206	7.615	17.468	16.875	131° 25' 26.4571"	537+12.256	538+9.723	7,732,204.059	331,180.172
207	17.899	21.720	12.423	69° 31' 33.3649"	540+5.148	541+6.868	7,732,219.815	331,242.948
208	19.459	19.193	10.458	56° 30' 47.2474"	541+7.003	542+6.196	7,732,200.861	331,256.006
209	20.114	9.687	4.939	27° 35' 35.5951"	542+15.641	543+5.327	7,732,201.328	331,280.844
210	23.965	14.960	7.733	35° 46' 00.5918"	543+7.714	544+2.674	7,732,194.604	331,294.318
211	70.881	22.485	11.338	18° 10' 31.9894"	545+5.943	546+8.428	7,732,201.410	331,336.107
212	21.099	20.575	11.188	55° 52' 23.5156"	547+7.274	548+7.849	7,732,194.991	331,376.978
213	37.840	16.351	8.305	24° 45' 29.1557"	548+9.760	549+6.111	7,732,210.632	331,391.591
214	52.621	23.199	11.791	25° 15' 35.2516"	549+12.302	550+15.501	7,732,220.560	331,415.931
215	53.254	22.572	11.458	24° 17' 05.5879"	551+5.038	552+7.609	7,732,244.713	331,438.102
216	23.860	43.757	31.136	105° 04' 24.0267"	553+19.084	556+2.840	7,732,273.849	331,506.199
217	16.106	28.923	20.208	102° 53' 25.0796"	557+1.369	558+10.292	7,732,204.671	331,516.034
218	42.520	22.642	11.596	30° 30' 35.3620"	559+9.814	560+12.456	7,732,223.049	331,563.957
219	58.248	23.226	11.770	22° 50' 47.4199"	561+9.276	562+12.502	7,732,216.397	331,603.589
220	192.632	25.074	12.555	07° 27' 28.1688"	562+19.614	564+4.687	7,732,199.565	331,630.138
221	17.590	28.973	18.986	94° 22' 23.3917"	564+8.673	565+17.646	7,732,184.597	331,662.358
222	10.660	20.181	14.798	108° 27' 48.3213"	566+16.732	567+16.913	7,732,138.485	331,636.491
223	47.180	25.164	12.889	30° 33' 34.4162"	568+8.814	569+13.978	7,732,131.049	331,675.375
224	40.625	31.528	16.606	44° 27' 58.0924"	570+10.605	572+2.133	7,732,146.621	331,718.788
225	36.347	24.888	12.954	39° 13' 57.6661"	574+1.134	575+6.022	7,732,208.347	331,748.629
226	76.669	23.204	11.691	17° 20' 25.9390"	576+9.464	577+12.667	7,732,228.644	331,792.223
227	294.475	39.133	19.595	07° 36' 50.8505"	578+13.821	580+12.954	7,732,263.941	331,831.005
228	73.344	33.918	17.268	26° 29' 48.4797"	582+3.671	583+17.589	7,732,302.406	331,886.571
229	163.685	30.784	15.438	10° 46' 31.9025"	585+3.894	586+14.678	7,732,354.112	331,915.009
230	218.214	17.532	8.771	04° 36' 11.7539"	589+11.184	590+8.716	7,732,430.861	331,939.998
231	70.280	30.145	15.308	24° 34' 31.5646"	593+15.898	595+6.042	7,732,515.090	331,975.125
232	60.699	32.364	16.576	30° 32' 57.0565"	598+0.164	599+12.528	7,732,573.511	332,038.244
233	27.691	22.634	11.992	46° 49' 58.6423"	602+3.216	603+5.850	7,732,649.439	332,060.973
234	20.825	18.795	10.092	51° 42' 35.8674"	604+4.361	605+3.155	7,732,667.554	332,097.301
235	172.185	22.224	11.128	07° 23' 43.0748"	607+6.400	608+8.625	7,732,730.659	332,110.470
236	144.333	36.089	18.139	14° 19' 34.5611"	611+2.406	612+18.495	7,732,813.463	332,116.830
237	42.468	24.338	12.514	32° 50' 09.9665"	613+16.099	615+0.437	7,732,860.996	332,108.505
238	135.274	31.257	15.698	13° 14' 19.7697"	616+10.913	618+2.169	7,732,915.057	332,131.343
239	113.685	16.234	8.131	08° 10' 53.7418"	619+17.920	620+14.153	7,732,963.171	332,166.482
240	222.747	14.993	7.499	03° 51' 23.2907"	623+5.700	624+0.693	7,733,022.507	332,197.977
241	28.490	25.381	13.602	51° 02' 31.1027"	626+12.279	627+17.659	7,733,088.857	332,227.661
242	14.302	17.871	10.314	71° 35' 32.2300"	630+0.056	630+17.927	7,733,147.974	332,197.618
243	140.141	23.168	11.611	09° 28' 19.7164"	631+14.960	632+18.129	7,733,175.687	332,224.998
244	55.354	24.754	12.587	25° 37' 18.3081"	637+0.282	638+5.036	7,733,238.011	332,311.175
245	24.718	16.087	8.340	37° 17' 20.2988"	638+13.709	639+9.796	7,733,264.023	332,325.300
246	35.970	23.177	12.007	36° 55' 06.7848"	640+2.779	641+5.956	7,733,296.962	332,320.210
247	255.348	46.875	23.504	10° 31' 04.7226"	641+11.994	643+18.869	7,733,333.601	332,339.800
248	18.232	12.223	6.351	38° 24' 49.9817"	646+4.887	646+17.111	7,733,392.856	332,387.189
249	77.322	19.110	9.604	14° 09' 37.6204"	647+19.297	648+18.407	7,733,430.998	332,387.347
250	94.170	17.926	8.990	10° 54' 24.8181"	649+3.623	650+1.549	7,733,454.059	332,393.267
251	119.600	8.477	4.240	04° 03' 40.2425"	651+13.225	652+1.702	7,733,498.883	332,396.001
252	53.366	41.935	22.118	45° 01' 25.8781"	655+6.662	657+8.598	7,733,590.197	332,395.092
253	47.799	18.419	9.325	22° 04' 43.8301"	658+1.026	658+19.446	7,733,621.513	332,425.817
254	45.695	19.482	9.891	24° 25' 41.6653"	660+11.362	661+10.845	7,733,641.876	332,472.721
255	5.144	0.791	0.396	08° 48' 23.3926"	662+12.254	662+13.045	7,733,665.393	332,493.973
256	252.003	20.751	10.381	04° 43' 04.7272"	667+11.850	668+12.601	7,733,756.986	332,554.133
257	135.337	19.344	9.688	08° 11' 21.3637"	670+15.634	671+14.978	7,733,812.400	332,584.320
FIM	---	---	---	---	672+8.949	---	7,733,831.352	332,598.482

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
0+0.000	7,729,936.728	325,920.218	507.420
1+0.000	7,729,928.611	325,938.496	507.774
2+0.000	7,729,920.493	325,956.775	508.128
3+0.000	7,729,912.376	325,975.054	508.483
4+0.000	7,729,904.259	325,993.333	508.686
5+0.000	7,729,896.142	326,011.611	508.588
5+6.073 PC	7,729,893.677	326,017.162	508.513
6+0.000	7,729,887.635	326,029.707	508.340
7+0.000	7,729,877.628	326,047.016	508.092
7+4.659 PT	7,729,875.079	326,050.916	508.040
8+0.000	7,729,866.553	326,063.670	507.960
9+0.000	7,729,855.438	326,080.296	508.062
10+0.000	7,729,844.323	326,096.923	508.281
11+0.000	7,729,833.208	326,113.550	508.344
12+0.000	7,729,822.093	326,130.177	508.095
12+4.339 PC	7,729,819.681	326,133.784	508.007
13+0.000	7,729,811.114	326,146.894	507.690
13+3.688 PT	7,729,809.137	326,150.007	507.615
14+0.000	7,729,800.425	326,163.798	507.285
14+5.286 PC	7,729,797.602	326,168.266	507.186
15+0.000	7,729,789.540	326,180.575	506.992
16+0.000	7,729,777.945	326,196.869	506.923
16+13.843 PT	7,729,769.500	326,207.838	506.953
17+0.000	7,729,765.670	326,212.657	506.966
18+0.000	7,729,753.225	326,228.314	507.009
18+4.232 PC	7,729,750.592	326,231.627	507.018
19+0.000	7,729,741.331	326,244.383	507.052
20+0.000	7,729,731.241	326,261.639	506.985
21+0.000	7,729,723.117	326,279.903	506.696
21+10.020 PT	7,729,719.818	326,289.364	506.496
21+12.873 PC	7,729,718.953	326,292.082	506.440
22+0.000	7,729,716.585	326,298.803	506.298
23+0.000	7,729,707.777	326,316.731	505.899
23+9.470 PT	7,729,702.552	326,324.626	505.764
24+0.000	7,729,696.383	326,333.160	505.742
25+0.000	7,729,684.668	326,349.370	506.069
25+6.958 PC	7,729,680.592	326,355.009	506.267
26+0.000	7,729,673.187	326,365.744	506.565
27+0.000	7,729,662.767	326,382.810	506.550
27+2.010 PT	7,729,661.784	326,384.564	506.519
28+0.000	7,729,653.039	326,400.285	506.243
29+0.000	7,729,643.316	326,417.762	506.065
30+0.000	7,729,633.593	326,435.240	506.145
31+0.000	7,729,623.870	326,452.718	506.354
32+0.000	7,729,614.148	326,470.195	506.519
32+1.879 PC	7,729,613.235	326,471.837	506.521
33+0.000	7,729,605.187	326,488.066	506.381
34+0.000	7,729,598.129	326,506.770	505.940
34+11.836 PT	7,729,594.885	326,518.150	505.653
35+0.000	7,729,592.891	326,526.067	505.455
35+3.195 PC	7,729,592.110	326,529.165	505.377
36+0.000	7,729,590.795	326,545.839	504.994
36+14.987 PT	7,729,594.332	326,560.345	504.760
37+0.000	7,729,596.233	326,564.984	504.706
38+0.000	7,729,603.819	326,583.489	504.614
39+0.000	7,729,611.405	326,601.995	504.718
40+0.000	7,729,618.991	326,620.500	505.019
40+12.733 PC	7,729,623.821	326,632.282	505.311
41+0.000	7,729,627.055	326,638.782	505.492
42+0.000	7,729,640.368	326,653.528	505.778
42+7.762 PT	7,729,646.943	326,657.640	505.807
43+0.000	7,729,657.791	326,663.304	505.852
43+1.182 PC	7,729,658.839	326,663.851	505.856

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
44+0.000	7,729,674.445	326,674.299	505.926
44+14.805 PT	7,729,684.913	326,684.743	506.049
45+0.000	7,729,688.263	326,688.714	506.124
46+0.000	7,729,701.162	326,703.999	506.571
47+0.000	7,729,714.060	326,719.284	507.143
47+2.592 PC	7,729,715.732	326,721.264	507.217
48+0.000	7,729,727.812	326,733.781	507.771
48+14.286 PT	7,729,738.900	326,742.777	508.455
49+0.000	7,729,743.528	326,746.129	508.793
49+13.098 PC	7,729,754.136	326,753.812	509.702
50+0.000	7,729,759.780	326,757.785	510.210
51+0.000	7,729,776.710	326,768.422	511.303
51+12.711 PT	7,729,787.880	326,774.485	511.603
52+0.000	7,729,794.371	326,777.802	511.636
53+0.000	7,729,812.180	326,786.904	511.207
54+0.000	7,729,829.989	326,796.006	510.398
54+13.673 PC	7,729,842.164	326,802.229	509.844
55+0.000	7,729,847.672	326,805.338	509.588
56+0.000	7,729,863.108	326,817.966	508.779
56+0.498 PT	7,729,863.447	326,818.330	508.759
56+1.377 PC	7,729,864.045	326,818.974	508.723
57+0.000	7,729,878.598	326,830.476	508.095
57+13.272 PT	7,729,890.772	326,835.696	508.112
58+0.000	7,729,897.208	326,837.655	508.289
58+2.182 PC	7,729,899.296	326,838.290	508.371
58+15.525 PT	7,729,911.118	326,844.325	509.093
59+0.000	7,729,914.685	326,847.028	509.361
59+10.820 PC	7,729,923.307	326,853.564	510.008
60+0.000	7,729,930.901	326,858.716	510.557
60+14.915 PT	7,729,944.260	326,865.306	511.450
60+19.365 PC	7,729,948.405	326,866.928	511.716
61+0.000	7,729,948.994	326,867.163	511.754
62+0.000	7,729,965.826	326,877.769	512.767
62+0.863 PT	7,729,966.459	326,878.356	512.797
63+0.000	7,729,980.388	326,891.478	513.147
63+3.429 PC	7,729,982.883	326,893.830	513.146
63+17.024 PT	7,729,990.906	326,904.714	512.954
64+0.000	7,729,992.215	326,907.387	512.872
64+1.010 PC	7,729,992.659	326,908.294	512.841
64+19.723 PT	7,730,004.833	326,922.222	511.979
65+0.000	7,730,005.063	326,922.376	511.964
66+0.000	7,730,021.688	326,933.494	511.130
66+4.996 PC	7,730,025.840	326,936.272	511.002
67+0.000	7,730,036.025	326,947.114	510.812
67+9.132 PT	7,730,039.474	326,955.538	510.784
67+17.422 PC	7,730,041.528	326,963.570	510.759
68+0.000	7,730,042.265	326,966.039	510.751
69+0.000	7,730,053.998	326,981.844	510.691
69+3.261 PT	7,730,056.736	326,983.612	510.681
70+0.000	7,730,071.239	326,991.971	510.478
71+0.000	7,730,088.567	327,001.958	509.799
72+0.000	7,730,105.895	327,011.946	508.795
72+17.092 PC	7,730,120.703	327,020.481	507.930
73+0.000	7,730,123.252	327,021.880	507.782
74+0.000	7,730,142.071	327,028.443	506.770
74+9.790 PT	7,730,151.783	327,029.608	506.274
74+16.036 PC	7,730,158.021	327,029.910	505.958
75+0.000	7,730,161.965	327,030.292	505.757
76+0.000	7,730,180.296	327,037.786	504.744
76+9.245 PT	7,730,187.086	327,044.033	504.276
77+0.000	7,730,194.133	327,052.156	503.802
77+8.268 PC	7,730,199.551	327,058.402	503.550
78+0.000	7,730,207.812	327,066.719	503.358

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
78+19.249 PT	7,730,223.551	327,077.734	503.407
79+0.000	7,730,224.210	327,078.094	503.412
80+0.000	7,730,241.761	327,087.682	503.537
80+3.642 PC	7,730,244.958	327,089.428	503.560
81+0.000	7,730,260.127	327,095.440	503.662
81+16.059 PT	7,730,276.003	327,097.583	503.762
82+0.000	7,730,279.944	327,097.637	503.766
83+0.000	7,730,299.942	327,097.912	503.911
83+7.583 PC	7,730,307.524	327,098.016	503.959
84+0.000	7,730,319.894	327,098.993	504.036
84+16.306 PT	7,730,335.753	327,102.700	504.138
84+17.126 PC	7,730,336.533	327,102.954	504.143
85+0.000	7,730,339.255	327,103.875	504.161
86+0.000	7,730,357.542	327,111.924	504.359
86+6.670 PT	7,730,363.337	327,115.224	504.532
86+10.615 PC	7,730,366.713	327,117.264	504.664
87+0.000	7,730,374.995	327,121.670	505.072
88+0.000	7,730,393.951	327,127.905	506.300
88+2.044 PT	7,730,395.958	327,128.290	506.433
88+14.019 PC	7,730,407.745	327,130.405	507.206
89+0.000	7,730,413.655	327,131.317	507.562
90+0.000	7,730,433.611	327,132.261	508.549
90+2.789 PT	7,730,436.397	327,132.134	508.661
90+14.452 PC	7,730,448.041	327,131.469	509.074
91+0.000	7,730,453.558	327,130.903	509.260
92+0.000	7,730,472.511	327,124.802	509.932
92+11.641 PT	7,730,482.296	327,118.528	510.324
93+0.000	7,730,488.871	327,113.367	510.605
93+10.352 PC	7,730,497.014	327,106.976	510.945
94+0.000	7,730,505.104	327,101.743	511.166
95+0.000	7,730,524.134	327,095.987	511.237
95+10.143 PT	7,730,534.261	327,095.900	511.079
96+0.000	7,730,544.080	327,096.760	510.894
96+7.741 PC	7,730,551.791	327,097.435	510.749
97+0.000	7,730,563.869	327,099.461	510.519
97+15.377 PT	7,730,578.322	327,104.638	510.231
97+18.542 PC	7,730,581.182	327,105.994	510.172
98+0.000	7,730,582.508	327,106.600	510.144
99+0.000	7,730,601.920	327,110.835	509.662
99+10.093 PT	7,730,611.959	327,109.983	509.338
100+0.000	7,730,621.698	327,108.161	508.966
101+0.000	7,730,641.357	327,104.482	508.161
101+1.030 PC	7,730,642.369	327,104.292	508.120
102+0.000	7,730,661.258	327,103.434	507.357
103+0.000	7,730,680.608	327,108.197	506.259
103+0.807 PT	7,730,681.354	327,108.507	506.202
104+0.000	7,730,699.028	327,115.988	504.573
105+0.000	7,730,717.447	327,123.783	502.592
105+14.081 PC	7,730,730.414	327,129.271	501.198
106+0.000	7,730,735.734	327,131.860	500.612
107+0.000	7,730,751.162	327,144.421	499.036
107+7.522 PT	7,730,755.668	327,150.437	498.653
107+11.219 PC	7,730,757.681	327,153.537	498.507
108+0.000	7,730,760.653	327,161.720	498.270
108+13.102 PT	7,730,757.862	327,174.265	498.034
109+0.000	7,730,754.206	327,180.114	497.909
109+6.792 PC	7,730,750.605	327,185.874	497.827
110+0.000	7,730,745.636	327,198.042	497.899
110+18.838 PT	7,730,746.137	327,216.687	498.532
111+0.000	7,730,746.448	327,217.807	498.591
111+13.249 PC	7,730,749.990	327,230.573	499.282
112+0.000	7,730,751.583	327,237.133	499.612
113+0.000	7,730,753.779	327,256.981	500.247

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
113+6.628 PT	7,730,753.664	327,263.607	500.345
114+0.000	7,730,753.008	327,276.963	500.396
114+13.763 PC	7,730,752.333	327,290.709	500.412
115+0.000	7,730,752.327	327,296.944	500.420
116+0.000	7,730,756.318	327,316.460	500.443
117+0.000	7,730,766.053	327,333.840	500.467
117+4.158 PT	7,730,768.723	327,337.027	500.472
118+0.000	7,730,779.279	327,348.840	500.491
118+13.742 PC	7,730,788.436	327,359.086	500.507
119+0.000	7,730,792.794	327,363.575	500.515
120+0.000	7,730,808.937	327,375.283	500.538
120+12.237 PT	7,730,820.122	327,380.215	500.553
120+14.005 PC	7,730,821.792	327,380.795	500.555
121+0.000	7,730,827.497	327,382.636	500.562
121+18.915 PT	7,730,845.947	327,386.732	500.585
122+0.000	7,730,847.020	327,386.892	500.586
123+0.000	7,730,866.803	327,389.827	500.610
123+11.470 PC	7,730,878.149	327,391.511	500.623
124+0.000	7,730,886.449	327,393.436	500.633
125+0.000	7,730,903.920	327,402.926	500.657
125+0.309 PT	7,730,904.158	327,403.123	500.658
125+11.896 PC	7,730,913.076	327,410.521	500.671
126+0.000	7,730,919.482	327,415.482	500.681
127+0.000	7,730,936.585	327,425.805	500.510
127+17.079 PT	7,730,952.368	327,432.293	500.055
128+0.000	7,730,955.142	327,433.210	499.949
128+1.257 PC	7,730,956.335	327,433.605	499.901
129+0.000	7,730,974.435	327,438.433	499.192
129+9.330 PT	7,730,983.625	327,440.035	499.370
130+0.000	7,730,994.185	327,441.559	499.573
130+19.935 PC	7,731,013.915	327,444.407	499.952
131+0.000	7,731,013.980	327,444.416	499.953
132+0.000	7,731,033.249	327,449.597	500.333
132+19.881 PT	7,731,050.665	327,459.089	500.579
133+0.000	7,731,050.762	327,459.158	500.579
133+13.275 PC	7,731,061.591	327,466.837	500.595
134+0.000	7,731,067.144	327,470.630	500.557
135+0.000	7,731,084.396	327,480.729	500.401
135+0.800 PT	7,731,085.107	327,481.095	500.395
136+0.000	7,731,102.197	327,489.846	500.246
137+0.000	7,731,119.999	327,498.962	500.184
138+0.000	7,731,137.801	327,508.077	500.781
138+4.822 PC	7,731,142.093	327,510.275	501.038
139+0.000	7,731,155.972	327,516.398	502.038
139+10.704 PT	7,731,166.140	327,519.735	502.762
139+12.526 PC	7,731,167.893	327,520.232	502.885
140+0.000	7,731,174.965	327,522.638	503.390
140+17.997 PT	7,731,190.687	327,531.301	504.189
141+0.000	7,731,192.308	327,532.477	504.227
141+19.539 PC	7,731,208.122	327,543.953	504.053
142+0.000	7,731,208.496	327,544.222	504.037
142+18.375 PT	7,731,225.284	327,551.335	503.390
143+0.000	7,731,226.881	327,551.633	503.333
144+0.000	7,731,246.542	327,555.304	503.075
144+5.346 PC	7,731,251.797	327,556.285	503.157
145+0.000	7,731,265.893	327,560.220	503.709
145+12.144 PT	7,731,276.910	327,565.305	504.365
146+0.000	7,731,283.785	327,569.106	504.789
146+2.377 PC	7,731,285.864	327,570.256	504.917
147+0.000	7,731,302.867	327,573.735	505.761
147+0.498 PT	7,731,303.361	327,573.680	505.777
147+13.286 PC	7,731,316.060	327,572.167	506.001
148+0.000	7,731,322.762	327,571.958	505.977

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
148+19.462 PT	7,731,341.099	327,577.831	505.454
149+0.000	7,731,341.553	327,578.118	505.436
149+12.149 PC	7,731,351.824	327,584.608	505.042
150+0.000	7,731,358.768	327,588.253	504.788
150+17.568 PT	7,731,375.808	327,592.123	504.219
151+0.000	7,731,378.237	327,592.229	504.144
152+0.000	7,731,398.218	327,593.103	503.673
153+0.000	7,731,418.199	327,593.977	503.456
153+10.034 PC	7,731,428.223	327,594.416	503.443
154+0.000	7,731,438.147	327,595.304	503.492
154+14.611 PT	7,731,452.452	327,598.225	503.680
155+0.000	7,731,457.648	327,599.654	503.783
155+16.545 PC	7,731,473.601	327,604.038	504.215
156+0.000	7,731,476.942	327,604.918	504.327
157+0.000	7,731,496.586	327,608.608	505.124
157+0.370 PT	7,731,496.954	327,608.654	505.142
158+0.000	7,731,516.437	327,611.045	506.171
159+0.000	7,731,536.288	327,613.481	507.298
159+6.438 PC	7,731,542.678	327,614.266	507.661
160+0.000	7,731,555.822	327,617.478	508.426
160+9.816 PT	7,731,564.682	327,621.675	508.979
161+0.000	7,731,573.482	327,626.802	509.554
161+9.126 PC	7,731,581.367	327,631.396	510.068
162+0.000	7,731,591.123	327,636.177	510.681
162+7.531 PT	7,731,598.235	327,638.646	511.106
163+0.000	7,731,610.203	327,642.145	511.809
164+0.000	7,731,629.399	327,647.758	512.850
164+13.829 PC	7,731,642.673	327,651.638	513.227
165+0.000	7,731,648.638	327,653.217	513.289
166+0.000	7,731,668.391	327,656.192	513.124
167+0.000	7,731,688.365	327,655.846	512.873
167+4.126 PT	7,731,692.462	327,655.360	512.822
168+0.000	7,731,708.192	327,653.221	512.623
168+4.815 PC	7,731,712.963	327,652.572	512.562
169+0.000	7,731,728.113	327,652.051	512.425
169+18.652 PT	7,731,746.382	327,655.571	512.574
170+0.000	7,731,747.663	327,655.987	512.599
170+15.761 PC	7,731,762.653	327,660.858	513.016
171+0.000	7,731,766.663	327,662.230	513.143
172+0.000	7,731,784.927	327,670.338	513.741
172+8.708 PT	7,731,792.473	327,674.681	514.001
172+10.675 PC	7,731,794.146	327,675.715	514.060
173+0.000	7,731,802.358	327,680.120	514.338
174+0.000	7,731,821.416	327,685.992	514.936
174+3.424 PT	7,731,824.804	327,686.484	515.038
175+0.000	7,731,841.258	327,688.496	515.533
176+0.000	7,731,861.110	327,690.924	516.406
177+0.000	7,731,880.962	327,693.352	517.828
177+16.691 PC	7,731,897.530	327,695.378	519.193
178+0.000	7,731,900.820	327,695.729	519.410
179+0.000	7,731,920.791	327,695.703	520.197
179+7.789 PT	7,731,928.513	327,694.695	520.256
180+0.000	7,731,940.557	327,692.680	520.186
180+2.792 PC	7,731,943.311	327,692.220	520.169
181+0.000	7,731,960.389	327,692.852	520.125
181+15.608 PT	7,731,974.537	327,699.231	520.375
182+0.000	7,731,978.144	327,701.739	520.500
183+0.000	7,731,994.565	327,713.155	521.313
183+6.328 PC	7,731,999.761	327,716.767	521.589
184+0.000	7,732,011.909	327,722.947	522.188
185+0.000	7,732,031.599	327,725.588	522.976
185+10.239 PT	7,732,041.674	327,723.864	523.158
186+0.000	7,732,051.076	327,721.241	523.163

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
186+19.961 PC	7,732,070.303	327,715.877	522.747
187+0.000	7,732,070.340	327,715.867	522.746
188+0.000	7,732,090.141	327,715.208	522.423
188+3.282 PT	7,732,093.326	327,715.999	522.405
189+0.000	7,732,109.380	327,720.663	522.460
189+16.929 PC	7,732,125.637	327,725.385	522.643
190+0.000	7,732,128.590	327,726.229	522.676
191+0.000	7,732,147.982	327,731.109	523.212
192+0.000	7,732,167.616	327,734.908	524.386
192+15.147 PT	7,732,182.608	327,737.059	525.517
193+0.000	7,732,187.425	327,737.648	525.880
194+0.000	7,732,207.278	327,740.073	527.373
195+0.000	7,732,227.130	327,742.498	528.867
195+2.287 PC	7,732,229.401	327,742.775	529.041
196+0.000	7,732,246.879	327,745.616	530.644
196+17.026 PT	7,732,263.418	327,749.643	532.604
197+0.000	7,732,266.279	327,750.456	532.989
197+2.257 PC	7,732,268.449	327,751.073	533.279
198+0.000	7,732,285.853	327,754.409	535.149
198+0.962 PT	7,732,286.810	327,754.503	535.230
199+0.000	7,732,305.767	327,756.260	536.375
200+0.000	7,732,325.682	327,758.105	536.666
200+7.317 PC	7,732,332.968	327,758.781	536.538
201+0.000	7,732,345.563	327,760.258	536.138
201+13.954 PT	7,732,359.320	327,762.588	535.689
202+0.000	7,732,365.252	327,763.756	535.494
203+0.000	7,732,384.874	327,767.622	534.850
204+0.000	7,732,404.497	327,771.488	533.977
204+7.903 PC	7,732,412.251	327,773.016	533.219
205+0.000	7,732,423.655	327,776.937	531.822
205+12.976 PT	7,732,434.220	327,784.390	530.733
206+0.000	7,732,439.307	327,789.234	530.335
207+0.000	7,732,453.791	327,803.026	529.939
208+0.000	7,732,468.275	327,816.818	530.635
208+6.215 PC	7,732,472.775	327,821.103	531.073
209+0.000	7,732,483.837	327,829.270	532.422
209+7.308 PT	7,732,490.429	327,832.412	533.348
210+0.000	7,732,502.223	327,837.102	535.214
211+0.000	7,732,520.807	327,844.493	538.140
211+3.058 PC	7,732,523.648	327,845.623	538.554
212+0.000	7,732,539.083	327,852.594	540.631
212+0.393 PT	7,732,539.433	327,852.772	540.675
212+8.034 PC	7,732,546.239	327,856.247	541.491
213+0.000	7,732,557.192	327,861.048	542.686
213+15.136 PT	7,732,571.726	327,865.221	544.194
214+0.000	7,732,576.489	327,866.212	544.679
214+4.464 PC	7,732,580.859	327,867.120	545.124
215+0.000	7,732,596.189	327,869.615	546.672
215+16.433 PT	7,732,612.574	327,870.788	548.409
216+0.000	7,732,616.140	327,870.878	548.812
217+0.000	7,732,636.133	327,871.382	551.248
217+4.095 PC	7,732,640.227	327,871.485	551.777
218+0.000	7,732,656.095	327,872.506	553.832
218+7.004 PT	7,732,663.048	327,873.347	554.737
219+0.000	7,732,675.921	327,875.129	556.416
219+7.035 PC	7,732,682.890	327,876.094	557.275
220+0.000	7,732,695.799	327,877.242	558.593
220+14.552 PT	7,732,710.341	327,877.024	559.664
221+0.000	7,732,715.777	327,876.643	559.954
222+0.000	7,732,735.728	327,875.248	560.909
223+0.000	7,732,755.679	327,873.852	561.460
223+13.628 PC	7,732,769.274	327,872.901	561.373
224+0.000	7,732,775.639	327,872.945	561.204

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
224+18.103 PT	7,732,792.787	327,878.284	560.607
225+0.000	7,732,794.433	327,879.227	560.544
225+2.264 PC	7,732,796.398	327,880.352	560.475
226+0.000	7,732,813.394	327,884.565	560.293
226+6.312 PT	7,732,819.640	327,883.731	560.383
226+11.649 PC	7,732,824.835	327,882.507	560.523
227+0.000	7,732,833.035	327,880.939	560.859
227+6.262 PT	7,732,839.254	327,880.221	561.163
227+11.641 PC	7,732,844.615	327,879.774	561.425
228+0.000	7,732,852.925	327,878.882	561.832
229+0.000	7,732,872.565	327,875.161	563.398
229+1.963 PT	7,732,874.467	327,874.676	563.616
230+0.000	7,732,891.920	327,870.124	566.149
230+3.164 PC	7,732,894.982	327,869.326	566.677
231+0.000	7,732,911.623	327,867.042	569.491
231+9.355 PT	7,732,920.960	327,867.493	570.884
232+0.000	7,732,931.536	327,868.706	572.053
232+17.434 PC	7,732,948.856	327,870.693	573.015
233+0.000	7,732,951.406	327,870.977	573.056
234+0.000	7,732,971.338	327,872.593	573.279
234+9.749 PT	7,732,981.079	327,872.996	573.388
235+0.000	7,732,991.326	327,873.288	573.503
235+7.991 PC	7,732,999.313	327,873.516	573.592
236+0.000	7,733,010.269	327,877.820	573.726
236+4.034 PT	7,733,012.966	327,880.807	573.771
236+12.446 PC	7,733,017.842	327,887.662	573.864
237+0.000	7,733,023.836	327,892.044	573.949
237+6.759 PT	7,733,030.501	327,892.192	574.053
238+0.000	7,733,043.278	327,888.720	574.421
238+4.989 PC	7,733,048.093	327,887.411	574.616
239+0.000	7,733,062.713	327,884.023	575.391
240+0.000	7,733,082.509	327,881.235	576.730
240+3.300 PT	7,733,085.798	327,880.966	577.024
241+0.000	7,733,102.453	327,879.743	578.913
241+1.081 PC	7,733,103.531	327,879.664	579.058
242+0.000	7,733,120.886	327,885.752	581.938
242+2.051 PT	7,733,122.325	327,887.212	582.257
242+19.426 PC	7,733,133.961	327,900.116	584.649
243+0.000	7,733,134.351	327,900.538	584.719
243+18.251 PT	7,733,150.577	327,907.836	586.618
244+0.000	7,733,152.325	327,907.893	586.768
244+4.959 PC	7,733,157.282	327,908.056	587.186
245+0.000	7,733,171.188	327,913.100	588.452
245+7.628 PT	7,733,176.353	327,918.669	589.094
246+0.000	7,733,183.215	327,928.964	590.136
246+10.980 PC	7,733,189.306	327,938.100	591.112
247+0.000	7,733,194.689	327,945.333	591.992
248+0.000	7,733,209.096	327,959.140	594.195
248+17.988 PT	7,733,224.444	327,968.460	596.331
249+0.000	7,733,226.263	327,969.321	596.570
250+0.000	7,733,244.338	327,977.882	598.945
250+16.386 PC	7,733,259.147	327,984.895	600.177
251+0.000	7,733,262.448	327,986.367	600.256
252+0.000	7,733,281.668	327,991.701	599.440
252+13.861 PT	7,733,295.489	327,992.494	598.580
252+14.011 PC	7,733,295.639	327,992.490	598.576
253+0.000	7,733,301.608	327,992.027	598.482
253+12.295 PT	7,733,313.583	327,989.328	598.461
254+0.000	7,733,320.900	327,986.914	598.447
254+16.020 PC	7,733,336.113	327,981.893	598.272
255+0.000	7,733,339.956	327,980.865	598.182
255+14.641 PT	7,733,354.488	327,980.964	597.698
256+0.000	7,733,359.720	327,982.122	597.459

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
257+0.000	7,733,379.248	327,986.442	596.507
257+9.689 PC	7,733,388.709	327,988.536	596.075
258+0.000	7,733,398.911	327,989.947	595.679
259+0.000	7,733,418.733	327,987.983	595.099
259+5.017 PT	7,733,423.535	327,986.531	594.997
260+0.000	7,733,437.696	327,981.637	594.847
260+4.656 PC	7,733,442.096	327,980.116	594.847
261+0.000	7,733,457.184	327,977.840	595.006
261+5.983 PT	7,733,463.129	327,978.465	595.115
261+18.659 PC	7,733,475.609	327,980.684	595.346
262+0.000	7,733,476.933	327,980.897	595.370
263+0.000	7,733,496.632	327,978.886	595.578
263+2.974 PT	7,733,499.390	327,977.775	595.552
264+0.000	7,733,514.940	327,970.842	595.090
264+9.115 PC	7,733,523.265	327,967.130	594.626
265+0.000	7,733,533.860	327,965.087	594.017
265+13.929 PT	7,733,546.846	327,969.550	593.238
266+0.000	7,733,551.772	327,973.097	592.898
267+0.000	7,733,568.004	327,984.781	591.780
267+4.639 PC	7,733,571.769	327,987.491	591.521
268+0.000	7,733,585.947	327,992.953	590.662
268+7.073 PT	7,733,593.004	327,992.906	590.266
269+0.000	7,733,605.830	327,991.300	589.543
269+16.074 PC	7,733,621.780	327,989.302	588.644
270+0.000	7,733,625.682	327,988.869	588.425
271+0.000	7,733,645.658	327,988.371	587.306
271+17.287 PT	7,733,662.833	327,990.242	586.339
272+0.000	7,733,665.507	327,990.702	586.181
272+2.187 PC	7,733,667.662	327,991.073	586.048
273+0.000	7,733,682.754	327,999.816	584.813
273+1.566 PT	7,733,683.714	328,001.053	584.691
274+0.000	7,733,694.553	328,015.963	583.097
274+11.801 PC	7,733,701.492	328,025.509	582.018
275+0.000	7,733,705.732	328,032.515	581.268
275+15.933 PT	7,733,710.354	328,047.689	579.833
276+0.000	7,733,710.888	328,051.720	579.534
277+0.000	7,733,713.512	328,071.547	578.779
278+0.000	7,733,716.136	328,091.374	579.122
278+7.899 PC	7,733,717.173	328,099.205	579.342
279+0.000	7,733,718.004	328,111.269	579.680
280+0.000	7,733,716.058	328,131.138	580.239
280+3.982 PT	7,733,715.181	328,135.022	580.350
281+0.000	7,733,711.331	328,150.571	580.797
281+17.482 PC	7,733,707.130	328,167.541	581.285
282+0.000	7,733,706.547	328,169.990	581.355
283+0.000	7,733,703.496	328,189.739	581.913
284+0.000	7,733,703.287	328,209.721	582.533
284+15.850 PT	7,733,705.146	328,225.452	583.302
285+0.000	7,733,705.865	328,229.540	583.519
286+0.000	7,733,709.332	328,249.237	584.171
286+10.292 PC	7,733,711.115	328,259.373	584.302
286+11.696 PT	7,733,711.441	328,260.739	584.320
287+0.000	7,733,713.845	328,268.687	584.427
288+0.000	7,733,719.635	328,287.830	584.683
288+0.445 PC	7,733,719.764	328,288.256	584.688
289+0.000	7,733,717.719	328,307.180	584.946
289+18.172 PT	7,733,704.012	328,318.464	585.200
290+0.000	7,733,702.275	328,319.032	585.226
291+0.000	7,733,683.263	328,325.242	585.513
291+0.187 PC	7,733,683.086	328,325.300	585.516
292+0.000	7,733,667.807	328,337.277	585.800
292+2.839 PT	7,733,666.430	328,339.758	585.848
293+0.000	7,733,658.860	328,355.159	586.466



# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
294+0.000	7,733,650.038	328,373.109	587.889
295+0.000	7,733,641.216	328,391.058	589.691
296+0.000	7,733,632.394	328,409.007	591.206
297+0.000	7,733,623.573	328,426.956	592.721
297+18.109 PC	7,733,615.585	328,443.208	594.047
298+0.000	7,733,614.791	328,444.924	594.139
299+0.000	7,733,611.643	328,464.465	593.926
299+2.576 PT	7,733,611.957	328,467.022	593.741
299+5.811 PC	7,733,612.455	328,470.218	593.458
300+0.000	7,733,615.683	328,484.021	591.649
301+0.000	7,733,623.661	328,502.320	589.153
301+0.080 PT	7,733,623.701	328,502.390	589.144
302+0.000	7,733,633.565	328,519.695	586.966
302+1.573 PC	7,733,634.344	328,521.062	586.794
302+3.262 PT	7,733,635.283	328,522.464	586.609
303+0.000	7,733,645.570	328,535.668	584.779
303+14.362 PC	7,733,654.396	328,546.998	583.291
304+0.000	7,733,657.483	328,551.708	582.752
304+14.728 PT	7,733,661.600	328,565.733	581.465
305+0.000	7,733,661.981	328,570.991	581.046
305+6.930 PC	7,733,662.483	328,577.903	580.471
306+0.000	7,733,666.188	328,590.330	579.172
306+2.816 PT	7,733,667.668	328,592.724	578.856
306+19.803 PC	7,733,677.270	328,606.737	576.670
307+0.000	7,733,677.381	328,606.900	576.642
308+0.000	7,733,683.563	328,625.653	573.784
309+0.000	7,733,678.959	328,644.854	570.926
309+3.193 PT	7,733,677.273	328,647.564	570.470
310+0.000	7,733,667.774	328,661.430	568.088
310+15.009 PC	7,733,659.292	328,673.812	565.941
311+0.000	7,733,657.197	328,678.317	565.279
311+11.127 PT	7,733,658.267	328,689.141	563.928
312+0.000	7,733,662.262	328,697.064	562.973
312+17.347 PC	7,733,670.071	328,712.553	561.381
313+0.000	7,733,670.901	328,715.064	561.148
313+14.496 PT	7,733,663.196	328,725.498	559.351
313+14.714 PC	7,733,662.980	328,725.526	559.316
314+0.000	7,733,657.802	328,724.820	558.394
314+7.246 PT	7,733,652.655	328,719.943	557.034
315+0.000	7,733,647.082	328,708.471	554.967
316+0.000	7,733,638.342	328,690.482	553.505
316+7.153 PC	7,733,635.216	328,684.048	553.099
317+0.000	7,733,625.450	328,676.390	552.369
317+18.403 PT	7,733,609.936	328,683.666	551.325
318+0.000	7,733,609.196	328,685.081	551.234
319+0.000	7,733,599.918	328,702.799	550.099
319+4.009 PC	7,733,598.058	328,706.351	549.871
320+0.000	7,733,588.952	328,719.445	548.964
321+0.000	7,733,573.479	328,731.988	547.594
321+4.793 PT	7,733,569.245	328,734.231	547.196
321+12.971 PC	7,733,561.879	328,737.784	546.454
322+0.000	7,733,555.825	328,741.341	545.754
322+18.342 PT	7,733,543.489	328,754.727	543.606
323+0.000	7,733,542.649	328,756.156	543.388
323+10.040 PC	7,733,537.562	328,764.812	541.980
324+0.000	7,733,532.118	328,773.148	540.436
325+0.000	7,733,518.937	328,788.150	538.097
325+5.451 PT	7,733,514.872	328,791.782	537.773
325+8.001 PC	7,733,512.927	328,793.431	537.667
326+0.000	7,733,504.287	328,801.744	537.566
326+8.960 PT	7,733,498.551	328,808.624	537.733
327+0.000	7,733,491.887	328,817.426	537.940
328+0.000	7,733,479.815	328,833.371	538.193

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
328+6.805 PC	7,733,475.707	328,838.797	538.102
329+0.000	7,733,475.520	328,851.127	537.609
329+1.106 PT	7,733,476.207	328,851.993	537.549
330+0.000	7,733,488.718	328,866.152	536.186
330+0.271 PC	7,733,488.898	328,866.355	536.165
331+0.000	7,733,499.406	328,882.954	534.644
332+0.000	7,733,504.206	328,902.279	533.039
332+8.313 PT	7,733,504.329	328,910.585	532.252
332+14.335 PC	7,733,504.015	328,916.599	531.640
333+0.000	7,733,503.472	328,922.236	531.062
334+0.000	7,733,497.710	328,941.306	529.023
334+14.977 PT	7,733,489.738	328,953.946	527.603
335+0.000	7,733,486.587	328,957.858	527.175
336+0.000	7,733,474.044	328,973.435	525.710
337+0.000	7,733,461.500	328,989.012	524.436
338+0.000	7,733,448.956	329,004.590	522.861
339+0.000	7,733,436.412	329,020.167	520.684
339+6.047 PC	7,733,432.619	329,024.877	519.935
340+0.000	7,733,427.668	329,037.685	518.206
340+9.233 PT	7,733,428.991	329,046.758	517.084
341+0.000	7,733,432.677	329,056.875	515.834
341+8.694 PC	7,733,435.652	329,065.044	514.869
342+0.000	7,733,438.472	329,075.974	513.675
342+12.086 PT	7,733,439.099	329,088.023	512.434
343+0.000	7,733,438.691	329,095.926	511.622
343+13.182 PC	7,733,438.012	329,109.090	510.269
344+0.000	7,733,437.855	329,115.905	509.569
345+0.000	7,733,439.644	329,135.802	507.516
345+11.756 PT	7,733,442.243	329,147.262	506.310
346+0.000	7,733,444.460	329,155.202	505.464
346+13.159 PC	7,733,448.000	329,167.877	504.286
347+0.000	7,733,449.786	329,174.480	503.811
348+0.000	7,733,454.382	329,193.943	502.957
348+2.589 PT	7,733,454.908	329,196.478	502.898
349+0.000	7,733,458.396	329,213.536	502.504
349+2.914 PC	7,733,458.979	329,216.390	502.437
350+0.000	7,733,463.984	329,232.700	502.050
350+5.158 PT	7,733,466.100	329,237.403	501.933
351+0.000	7,733,472.580	329,250.756	501.596
351+8.155 PC	7,733,476.140	329,258.093	501.411
352+0.000	7,733,481.188	329,268.808	501.181
352+18.334 PT	7,733,488.512	329,285.614	501.031
353+0.000	7,733,489.150	329,287.153	501.030
354+0.000	7,733,496.813	329,305.627	501.145
355+0.000	7,733,504.475	329,324.101	501.298
355+2.418 PC	7,733,505.401	329,326.334	501.310
356+0.000	7,733,505.416	329,343.469	500.949
356+2.908 PT	7,733,504.136	329,346.078	500.815
357+0.000	7,733,495.627	329,360.901	499.595
357+17.828 PC	7,733,486.751	329,376.363	497.939
358+0.000	7,733,485.677	329,378.251	497.738
359+0.000	7,733,476.537	329,396.035	495.881
359+2.346 PT	7,733,475.554	329,398.165	495.663
360+0.000	7,733,468.230	329,414.228	494.049
361+0.000	7,733,459.933	329,432.426	492.785
361+7.448 PC	7,733,456.843	329,439.203	492.516
362+0.000	7,733,452.210	329,450.863	492.310
362+12.341 PT	7,733,448.800	329,462.718	492.412
362+15.984 PC	7,733,447.965	329,466.264	492.499
363+0.000	7,733,446.967	329,470.154	492.626
364+0.000	7,733,439.783	329,488.785	493.732
364+2.909 PT	7,733,438.440	329,491.366	493.959
364+9.493 PC	7,733,435.318	329,497.162	494.533

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
365+0.000	7,733,430.752	329,506.621	495.603
366+0.000	7,733,424.441	329,525.575	497.696
366+6.436 PT	7,733,423.099	329,531.868	498.370
367+0.000	7,733,420.630	329,545.206	499.718
368+0.000	7,733,416.988	329,564.871	501.239
368+13.241 PC	7,733,414.578	329,577.891	501.938
369+0.000	7,733,413.023	329,584.466	502.258
369+18.967 PT	7,733,405.329	329,601.737	503.158
370+0.000	7,733,404.783	329,602.614	503.207
371+0.000	7,733,394.212	329,619.592	504.155
372+0.000	7,733,383.641	329,636.570	505.103
373+0.000	7,733,373.069	329,653.547	506.052
373+18.011 PC	7,733,363.549	329,668.837	506.749
374+0.000	7,733,362.474	329,670.510	506.756
375+0.000	7,733,349.137	329,685.317	506.000
375+7.517 PT	7,733,343.089	329,689.775	505.730
375+8.466 PC	7,733,342.295	329,690.295	505.711
376+0.000	7,733,335.270	329,699.191	505.750
376+4.900 PT	7,733,334.256	329,703.969	505.873
377+0.000	7,733,333.167	329,719.030	505.950
378+0.000	7,733,331.724	329,738.978	505.117
378+4.458 PC	7,733,331.403	329,743.424	504.786
379+0.000	7,733,327.200	329,758.276	503.250
379+16.610 PT	7,733,316.621	329,770.912	501.563
380+0.000	7,733,313.936	329,772.980	501.341
380+11.581 PC	7,733,304.760	329,780.045	501.020
381+0.000	7,733,301.229	329,787.357	500.889
381+5.275 PT	7,733,302.797	329,792.316	500.743
381+13.217 PC	7,733,307.263	329,798.882	500.431
382+0.000	7,733,310.523	329,804.819	500.076
383+0.000	7,733,313.011	329,824.401	498.644
383+18.174 PT	7,733,305.859	329,840.894	497.263
384+0.000	7,733,304.734	329,842.332	497.124
385+0.000	7,733,292.406	329,858.081	495.604
385+6.726 PC	7,733,288.260	329,863.378	495.093
386+0.000	7,733,282.087	329,875.050	494.084
386+12.199 PT	7,733,280.324	329,887.066	493.157
387+0.000	7,733,280.461	329,894.866	492.564
387+1.347 PC	7,733,280.484	329,896.213	492.462
388+0.000	7,733,286.153	329,913.699	491.044
388+7.146 PT	7,733,290.870	329,919.046	490.501
389+0.000	7,733,300.409	329,927.662	489.524
390+0.000	7,733,315.251	329,941.068	488.258
391+0.000	7,733,330.093	329,954.474	487.502
391+9.409 PC	7,733,337.076	329,960.780	487.267
392+0.000	7,733,342.810	329,969.547	487.001
393+0.000	7,733,339.693	329,988.517	485.979
393+11.686 PT	7,733,330.440	329,995.396	484.899
394+0.000	7,733,322.647	329,998.292	483.914
395+0.000	7,733,303.899	330,005.259	481.772
396+0.000	7,733,285.152	330,012.226	480.520
396+17.582 PC	7,733,268.671	330,018.350	479.811
397+0.000	7,733,266.387	330,019.143	479.713
398+0.000	7,733,246.667	330,021.753	478.854
398+17.734 PT	7,733,229.394	330,018.088	478.003
399+0.000	7,733,227.280	330,017.270	477.888
399+17.936 PC	7,733,210.553	330,010.798	476.976
400+0.000	7,733,208.608	330,010.108	476.868
400+19.226 PT	7,733,189.626	330,009.137	475.524
401+0.000	7,733,188.869	330,009.298	475.457
402+0.000	7,733,169.311	330,013.482	473.396
403+0.000	7,733,149.754	330,017.665	471.247
403+2.968 PC	7,733,146.851	330,018.286	471.023

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
404+0.000	7,733,129.923	330,019.659	470.344
404+8.401 PT	7,733,121.581	330,018.714	470.389
405+0.000	7,733,110.163	330,016.673	470.686
405+9.525 PC	7,733,100.786	330,014.997	470.990
406+0.000	7,733,090.390	330,015.303	471.455
406+6.654 PT	7,733,084.197	330,017.683	471.822
407+0.000	7,733,072.471	330,024.058	472.723
407+17.699 PC	7,733,056.921	330,032.511	474.067
408+0.000	7,733,054.861	330,033.533	474.241
409+0.000	7,733,035.305	330,035.384	474.833
409+14.790 PT	7,733,022.290	330,028.668	474.080
409+15.861 PC	7,733,021.484	330,027.963	473.986
410+0.000	7,733,018.181	330,025.475	473.573
411+0.000	7,732,999.057	330,021.262	471.387
411+5.719 PT	7,732,993.512	330,022.618	470.800
412+0.000	7,732,980.055	330,027.401	469.669
413+0.000	7,732,961.210	330,034.098	468.886
413+18.619 PC	7,732,943.666	330,040.333	468.592
414+0.000	7,732,942.372	330,040.816	468.570
414+11.992 PT	7,732,931.942	330,046.658	468.475
414+15.919 PC	7,732,928.812	330,049.029	468.485
415+0.000	7,732,925.370	330,051.212	468.516
415+13.392 PT	7,732,912.434	330,053.973	468.773
416+0.000	7,732,905.838	330,053.565	468.985
416+0.744 PC	7,732,905.096	330,053.520	469.013
416+10.660 PT	7,732,895.273	330,054.509	469.522
417+0.000	7,732,886.253	330,056.934	470.235
418+0.000	7,732,866.939	330,062.126	472.522
418+11.155 PC	7,732,856.166	330,065.021	474.040
419+0.000	7,732,848.336	330,068.997	475.045
419+18.860 PT	7,732,840.365	330,085.417	476.548
420+0.000	7,732,840.354	330,086.557	476.622
421+0.000	7,732,840.152	330,106.556	477.915
421+2.137 PC	7,732,840.131	330,108.693	478.053
422+0.000	7,732,836.447	330,126.052	479.207
423+0.000	7,732,824.745	330,142.066	480.977
423+1.167 PT	7,732,823.855	330,142.822	481.110
424+0.000	7,732,809.341	330,154.822	483.700
424+1.985 PC	7,732,807.811	330,156.087	484.018
425+0.000	7,732,793.195	330,166.595	486.804
426+0.000	7,732,775.478	330,175.834	489.238
426+5.773 PT	7,732,770.126	330,177.996	489.797
427+0.000	7,732,756.822	330,183.039	491.000
427+14.455 PC	7,732,743.306	330,188.162	492.205
428+0.000	7,732,738.141	330,190.181	492.671
429+0.000	7,732,719.886	330,198.339	494.372
429+15.155 PT	7,732,706.485	330,205.413	495.682
430+0.000	7,732,702.266	330,207.795	496.102
431+0.000	7,732,684.850	330,217.627	497.837
431+11.355 PC	7,732,674.962	330,223.210	498.822
432+0.000	7,732,667.630	330,227.784	499.571
432+11.202 PT	7,732,658.774	330,234.634	500.505
433+0.000	7,732,652.132	330,240.404	500.766
433+9.895 PC	7,732,644.661	330,246.893	500.367
434+0.000	7,732,637.606	330,254.110	499.202
434+11.169 PT	7,732,631.287	330,263.302	497.062
435+0.000	7,732,626.960	330,271.000	495.263
435+1.268 PC	7,732,626.339	330,272.106	495.015
436+0.000	7,732,625.677	330,290.128	491.678
436+3.660 PT	7,732,627.530	330,293.279	491.095
437+0.000	7,732,637.083	330,306.535	488.771
438+0.000	7,732,648.776	330,322.761	486.457
438+4.479 PC	7,732,651.394	330,326.395	485.958

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
439+0.000	7,732,655.652	330,341.009	484.229
439+2.682 PT	7,732,655.341	330,343.671	483.925
439+4.210 PC	7,732,655.074	330,345.176	483.748
440+0.000	7,732,647.800	330,358.903	481.748
440+6.080 PT	7,732,642.977	330,362.580	480.895
441+0.000	7,732,630.976	330,369.633	478.765
442+0.000	7,732,613.733	330,379.767	475.530
443+0.000	7,732,596.490	330,389.900	472.295
444+0.000	7,732,579.247	330,400.033	469.060
444+7.735 PC	7,732,572.579	330,403.953	467.809
445+0.000	7,732,561.722	330,409.648	465.825
445+16.884 PT	7,732,545.983	330,415.728	463.136
446+0.000	7,732,543.009	330,416.655	462.649
447+0.000	7,732,523.916	330,422.610	459.590
447+12.678 PC	7,732,511.813	330,426.384	457.688
448+0.000	7,732,504.575	330,427.013	456.589
448+10.423 PT	7,732,495.274	330,422.680	455.026
449+0.000	7,732,488.221	330,416.201	453.589
449+8.456 PC	7,732,481.994	330,410.481	452.179
450+0.000	7,732,471.924	330,405.088	449.798
450+6.966 PT	7,732,465.012	330,404.474	448.106
451+0.000	7,732,452.004	330,405.294	444.424
452+0.000	7,732,432.043	330,406.552	439.184
452+9.112 PC	7,732,422.949	330,407.125	437.409
453+0.000	7,732,412.425	330,409.689	435.793
454+0.000	7,732,397.890	330,422.916	433.327
454+3.980 PT	7,732,396.178	330,426.506	432.836
455+0.000	7,732,390.229	330,441.381	430.861
456+0.000	7,732,382.801	330,459.950	428.326
457+0.000	7,732,375.374	330,478.520	425.301
457+1.710 PC	7,732,374.739	330,480.107	425.017
458+0.000	7,732,366.921	330,496.630	421.788
458+8.971 PT	7,732,362.360	330,504.354	420.261
459+0.000	7,732,356.467	330,513.677	418.605
460+0.000	7,732,345.782	330,530.583	416.222
460+10.156 PC	7,732,340.357	330,539.168	414.995
461+0.000	7,732,333.169	330,545.722	413.805
461+15.639 PT	7,732,318.013	330,546.417	411.915
461+15.831 PC	7,732,317.836	330,546.346	411.891
462+0.000	7,732,314.178	330,544.365	411.388
462+12.664 PT	7,732,307.148	330,534.150	409.857
463+0.000	7,732,305.347	330,527.038	408.970
463+10.919 PC	7,732,302.666	330,516.453	407.650
464+0.000	7,732,299.757	330,507.861	406.553
465+0.000	7,732,288.888	330,491.191	403.794
465+16.817 PT	7,732,275.804	330,480.721	400.945
466+0.000	7,732,273.056	330,479.113	400.352
466+5.745 PC	7,732,268.098	330,476.211	399.294
467+0.000	7,732,254.691	330,471.663	396.916
467+6.199 PT	7,732,248.504	330,471.437	395.993
467+7.427 PC	7,732,247.278	330,471.501	395.818
468+0.000	7,732,235.410	330,475.229	394.177
468+11.461 PT	7,732,227.396	330,483.280	392.806
469+0.000	7,732,222.913	330,490.548	391.785
470+0.000	7,732,212.413	330,507.570	389.394
470+4.584 PC	7,732,210.006	330,511.471	388.846
471+0.000	7,732,203.165	330,525.262	387.002
471+10.128 PT	7,732,200.098	330,534.908	385.791
471+15.880 PC	7,732,198.691	330,540.485	385.103
472+0.000	7,732,197.143	330,544.289	384.611
472+16.549 PT	7,732,183.260	330,551.619	382.717
472+17.193 PC	7,732,182.617	330,551.571	382.647
473+0.000	7,732,179.839	330,551.188	382.344

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
473+12.933 PT	7,732,168.607	330,545.155	381.010
474+0.000	7,732,163.610	330,540.158	380.325
474+1.248 PC	7,732,162.727	330,539.275	380.206
474+14.453 PT	7,732,151.701	330,532.196	378.956
475+0.000	7,732,146.502	330,530.262	378.430
475+9.050 PC	7,732,138.020	330,527.106	377.573
476+0.000	7,732,128.331	330,522.064	376.535
476+13.372 PT	7,732,118.624	330,512.942	375.269
477+0.000	7,732,114.531	330,507.728	374.641
477+0.730 PC	7,732,114.081	330,507.153	374.572
477+18.587 PT	7,732,098.063	330,502.007	372.816
478+0.000	7,732,096.707	330,502.402	372.660
478+2.065 PC	7,732,094.724	330,502.980	372.425
479+0.000	7,732,077.019	330,503.088	370.073
479+8.515 PT	7,732,069.209	330,499.759	368.761
480+0.000	7,732,059.327	330,493.906	366.880
480+6.344 PC	7,732,053.868	330,490.674	365.880
481+0.000	7,732,040.926	330,491.033	364.004
481+18.879 PT	7,732,037.491	330,507.717	362.030
482+0.000	7,732,038.100	330,508.658	361.936
482+18.008 PI	7,732,009.414	330,464.348	360.436
483+0.000	7,732,048.969	330,525.446	360.270
483+5.970 PC	7,732,052.214	330,530.458	359.769
484+0.000	7,732,060.548	330,541.733	358.555
484+15.749 PT	7,732,071.483	330,553.050	357.132
485+0.000	7,732,074.642	330,555.894	356.737
486+0.000	7,732,089.506	330,569.275	354.868
486+7.660 PC	7,732,095.199	330,574.400	354.209
487+0.000	7,732,104.960	330,581.930	353.384
487+19.795 PT	7,732,122.657	330,590.690	352.670
488+0.000	7,732,122.850	330,590.758	352.667
488+0.975 PC	7,732,123.771	330,591.082	352.650
489+0.000	7,732,138.165	330,602.922	352.333
489+1.449 PT	7,732,138.866	330,604.189	352.308
490+0.000	7,732,147.413	330,620.654	351.684
490+6.542 PC	7,732,150.428	330,626.461	351.335
491+0.000	7,732,157.319	330,638.011	350.404
491+9.226 PT	7,732,162.811	330,645.421	349.668
492+0.000	7,732,169.571	330,653.810	348.808
492+11.976 PC	7,732,177.086	330,663.135	347.851
493+0.000	7,732,183.014	330,668.493	347.187
493+14.310 PT	7,732,196.520	330,672.619	345.928
494+0.000	7,732,202.210	330,672.707	345.417
494+5.881 PC	7,732,208.090	330,672.798	344.889
495+0.000	7,732,220.304	330,678.896	343.755
495+2.830 PT	7,732,221.831	330,681.275	343.587
495+6.872 PC	7,732,223.699	330,684.860	343.385
496+0.000	7,732,230.865	330,695.834	343.027
496+11.991 PT	7,732,239.162	330,704.468	343.103
497+0.000	7,732,245.205	330,709.725	343.367
497+8.071 PC	7,732,251.294	330,715.022	343.806
497+16.970 PT	7,732,257.343	330,721.527	344.423
497+19.782 PC	7,732,259.029	330,723.777	344.602
498+0.000	7,732,259.161	330,723.951	344.615
498+16.229 PT	7,732,270.453	330,735.548	345.336
499+0.000	7,732,273.401	330,737.899	345.428
499+17.187 PC	7,732,286.838	330,748.616	345.494
500+0.000	7,732,288.963	330,750.458	345.450
500+13.323 PT	7,732,296.670	330,761.222	345.024
501+0.000	7,732,299.437	330,767.299	344.679
502+0.000	7,732,307.725	330,785.502	343.116
502+8.746 PC	7,732,311.349	330,793.461	342.198
503+0.000	7,732,318.931	330,801.502	340.985

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
503+12.657 PT	7,732,331.219	330,802.934	339.772
504+0.000	7,732,338.326	330,801.091	339.207
504+4.189 PC	7,732,342.381	330,800.039	338.931
504+17.791 PT	7,732,355.598	330,801.530	338.263
505+0.000	7,732,357.558	330,802.547	338.187
505+8.035 PC	7,732,364.692	330,806.246	337.930
505+17.308 PT	7,732,370.960	330,812.846	337.633
506+0.000	7,732,372.075	330,815.296	337.546
507+0.000	7,732,380.358	330,833.500	336.906
507+5.363 PC	7,732,382.580	330,838.382	336.702
507+19.233 PT	7,732,391.423	330,848.839	335.877
508+0.000	7,732,392.059	330,849.268	335.819
509+0.000	7,732,408.635	330,860.459	333.839
509+3.683 PC	7,732,411.688	330,862.520	333.393
509+16.326 PT	7,732,420.060	330,871.826	331.860
510+0.000	7,732,421.784	330,875.070	331.414
510+12.551 PC	7,732,427.673	330,886.154	329.892
511+0.000	7,732,430.532	330,893.020	328.989
511+11.966 PT	7,732,432.317	330,904.807	327.538
512+0.000	7,732,432.315	330,912.841	326.563
513+0.000	7,732,432.310	330,932.841	324.138
513+1.195 PC	7,732,432.310	330,934.036	323.993
514+0.000	7,732,429.383	330,952.534	321.675
514+8.692 PT	7,732,426.114	330,960.579	320.527
514+14.289 PC	7,732,423.637	330,965.599	319.758
515+0.000	7,732,420.989	330,970.658	318.949
515+6.504 PT	7,732,417.684	330,976.259	317.998
516+0.000	7,732,410.514	330,987.693	315.961
516+5.571 PC	7,732,407.554	330,992.412	315.118
517+0.000	7,732,401.794	331,005.584	312.934
517+6.216 PT	7,732,400.556	331,011.672	312.012
517+17.759 PC	7,732,398.980	331,023.106	310.399
518+0.000	7,732,398.711	331,025.331	310.101
518+19.254 PT	7,732,399.511	331,044.502	307.738
519+0.000	7,732,399.649	331,045.234	307.654
520+0.000	7,732,403.359	331,064.887	305.400
520+10.192 PC	7,732,405.249	331,074.902	304.226
521+0.000	7,732,405.422	331,084.662	303.050
521+10.644 PT	7,732,401.947	331,094.660	301.721
521+18.102 PC	7,732,398.255	331,101.141	300.758
522+0.000	7,732,397.333	331,102.799	300.509
522+19.122 PT	7,732,390.062	331,120.447	297.987
523+0.000	7,732,389.816	331,121.289	297.872
524+0.000	7,732,384.196	331,140.483	295.235
524+9.824 PC	7,732,381.435	331,149.911	293.940
525+0.000	7,732,377.579	331,159.308	292.598
526+0.000	7,732,364.790	331,174.502	289.961
526+0.147 PT	7,732,364.674	331,174.592	289.942
526+1.740 PC	7,732,363.418	331,175.572	289.732
527+0.000	7,732,353.189	331,190.360	287.324
527+11.401 PT	7,732,351.914	331,201.622	285.821
528+0.000	7,732,352.573	331,210.195	284.687
528+15.196 PC	7,732,353.736	331,225.347	282.628
529+0.000	7,732,353.649	331,230.143	281.954
530+0.000	7,732,344.176	331,247.169	279.030
530+9.024 PT	7,732,336.257	331,251.396	277.667
531+0.000	7,732,325.811	331,254.766	276.111
531+4.281 PC	7,732,321.737	331,256.081	275.570
532+0.000	7,732,306.623	331,254.218	273.902
532+8.065 PT	7,732,300.940	331,248.589	273.241
533+0.000	7,732,294.529	331,238.523	272.403
533+3.142 PC	7,732,292.841	331,235.872	272.183
534+0.000	7,732,282.035	331,222.996	271.004

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
534+17.010 PT	7,732,268.127	331,213.289	269.815
535+0.000	7,732,265.471	331,211.916	269.606
536+0.000	7,732,247.704	331,202.732	268.208
537+0.000	7,732,229.938	331,193.549	266.809
537+12.256 PC	7,732,219.050	331,187.921	265.756
538+0.000	7,732,211.639	331,188.154	264.888
538+9.723 PT	7,732,208.167	331,196.540	263.576
539+0.000	7,732,210.669	331,206.507	261.920
540+0.000	7,732,215.538	331,225.906	258.430
540+5.148 PC	7,732,216.791	331,230.898	257.531
541+0.000	7,732,214.364	331,245.123	254.939
541+6.868 PT	7,732,209.585	331,249.996	253.740
541+7.003 PC	7,732,209.473	331,250.073	253.717
542+0.000	7,732,201.921	331,260.353	251.448
542+6.196 PT	7,732,201.057	331,266.462	250.367
542+15.641 PC	7,732,201.235	331,275.905	248.718
543+0.000	7,732,200.846	331,280.239	247.957
543+5.327 PT	7,732,199.122	331,285.263	247.028
543+7.714 PC	7,732,198.057	331,287.399	246.611
544+0.000	7,732,195.566	331,299.293	244.487
544+2.674 PT	7,732,195.847	331,301.950	244.033
545+0.000	7,732,198.632	331,319.051	241.159
545+5.943 PC	7,732,199.588	331,324.916	240.201
546+0.000	7,732,200.461	331,338.924	237.973
546+8.428 PT	7,732,199.651	331,347.307	236.639
547+0.000	7,732,197.856	331,358.739	234.807
547+7.274 PC	7,732,196.727	331,365.925	233.683
548+0.000	7,732,198.548	331,378.326	231.843
548+7.849 PT	7,732,203.167	331,384.616	230.789
548+9.760 PC	7,732,204.564	331,385.921	230.542
549+0.000	7,732,211.015	331,393.833	229.279
549+6.111 PT	7,732,213.769	331,399.281	228.576
549+12.302 PC	7,732,216.107	331,405.013	227.902
550+0.000	7,732,219.524	331,411.903	227.117
550+15.501 PT	7,732,229.247	331,423.905	225.597
551+0.000	7,732,232.561	331,426.947	225.156
551+5.038 PC	7,732,236.272	331,430.354	224.662
552+0.000	7,732,245.738	331,441.878	223.195
552+7.609 PT	7,732,249.220	331,448.636	222.449
553+0.000	7,732,254.094	331,460.028	221.146
553+19.084 PC	7,732,261.601	331,477.573	218.614
554+0.000	7,732,261.945	331,478.422	218.477
555+0.000	7,732,260.912	331,497.814	215.259
556+0.000	7,732,245.804	331,510.016	212.450
556+2.840 PT	7,732,243.023	331,510.582	212.097
557+0.000	7,732,226.034	331,512.997	210.137
557+1.369 PC	7,732,224.678	331,513.189	209.984
558+0.000	7,732,211.435	331,524.795	207.896
558+10.292 PT	7,732,211.907	331,534.902	206.742
559+0.000	7,732,215.383	331,543.967	205.654
559+9.814 PC	7,732,218.897	331,553.129	204.554
560+0.000	7,732,221.376	331,562.985	203.412
560+12.456 PT	7,732,221.130	331,575.393	202.016
561+0.000	7,732,219.881	331,582.834	201.171
561+9.276 PC	7,732,218.345	331,591.981	200.088
562+0.000	7,732,215.609	331,602.335	198.728
562+12.502 PT	7,732,210.095	331,613.529	196.998
562+19.614 PC	7,732,206.287	331,619.535	195.944
563+0.000	7,732,206.081	331,619.861	195.885
564+0.000	7,732,196.302	331,637.297	192.841
564+4.687 PT	7,732,194.275	331,641.524	192.128
564+8.673 PC	7,732,192.596	331,645.139	191.521
565+0.000	7,732,184.952	331,653.232	189.798

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
565+17.646 PT	7,732,168.038	331,653.069	187.171
566+0.000	7,732,165.985	331,651.917	186.854
566+16.732 PC	7,732,151.392	331,643.731	184.927
567+0.000	7,732,148.343	331,642.591	184.616
567+16.913 PT	7,732,135.705	331,651.026	183.303
568+0.000	7,732,135.126	331,654.058	183.082
568+8.814 PC	7,732,133.470	331,662.715	182.326
569+0.000	7,732,132.685	331,673.847	180.709
569+13.978 PT	7,732,135.401	331,687.507	178.392
570+0.000	7,732,137.434	331,693.175	177.394
570+10.605 PC	7,732,141.014	331,703.157	175.637
571+0.000	7,732,145.176	331,711.557	174.092
572+0.000	7,732,159.677	331,725.038	170.873
572+2.133 PT	7,732,161.572	331,726.016	170.536
573+0.000	7,732,177.657	331,733.793	167.750
574+0.000	7,732,195.664	331,742.498	164.722
574+1.134 PC	7,732,196.684	331,742.991	164.553
575+0.000	7,732,210.834	331,755.149	161.790
575+6.022 PT	7,732,213.815	331,760.373	160.926
576+0.000	7,732,219.715	331,773.045	158.953
576+9.464 PC	7,732,223.709	331,781.624	157.644
577+0.000	7,732,228.798	331,790.841	156.211
577+12.667 PT	7,732,236.513	331,800.869	154.524
578+0.000	7,732,241.449	331,806.292	153.553
578+13.821 PC	7,732,250.752	331,816.513	151.725
579+0.000	7,732,254.863	331,821.127	150.907
580+0.000	7,732,267.490	331,836.632	148.261
580+12.954 PT	7,732,275.095	331,847.117	146.547
581+0.000	7,732,279.105	331,852.910	145.615
582+0.000	7,732,290.489	331,869.355	142.969
582+3.671 PC	7,732,292.578	331,872.373	142.483
583+0.000	7,732,303.284	331,884.658	140.373
583+17.589 PT	7,732,317.537	331,894.893	138.378
584+0.000	7,732,319.649	331,896.054	138.128
585+0.000	7,732,337.174	331,905.693	136.235
585+3.894 PC	7,732,340.586	331,907.569	135.876
586+0.000	7,732,355.057	331,914.625	134.391
586+14.678 PT	7,732,368.791	331,919.788	133.038
587+0.000	7,732,373.852	331,921.436	132.548
588+0.000	7,732,392.869	331,927.628	130.704
589+0.000	7,732,411.887	331,933.820	128.860
589+11.184 PC	7,732,422.521	331,937.282	127.829
590+0.000	7,732,430.847	331,940.180	127.017
590+8.716 PT	7,732,438.956	331,943.374	126.213
591+0.000	7,732,449.371	331,947.717	125.145
592+0.000	7,732,467.830	331,955.415	123.077
593+0.000	7,732,486.289	331,963.114	120.814
593+15.898 PC	7,732,500.962	331,969.233	118.992
594+0.000	7,732,504.700	331,970.921	118.522
595+0.000	7,732,521.198	331,982.107	116.230
595+6.042 PT	7,732,525.488	331,986.359	115.537
596+0.000	7,732,534.969	331,996.603	113.938
597+0.000	7,732,548.554	332,011.281	111.723
598+0.000	7,732,562.139	332,025.958	110.047
598+0.164 PC	7,732,562.251	332,026.079	110.036
599+0.000	7,732,577.844	332,038.196	108.910
599+12.528 PT	7,732,589.391	332,042.998	108.246
600+0.000	7,732,596.549	332,045.140	107.849
601+0.000	7,732,615.709	332,050.876	106.789
602+0.000	7,732,634.869	332,056.611	105.729
602+3.216 PC	7,732,637.950	332,057.533	105.559
603+0.000	7,732,651.648	332,066.783	104.669
603+5.850 PT	7,732,654.791	332,071.705	104.359

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
604+0.000	7,732,661.105	332,084.367	103.609
604+4.361 PC	7,732,663.050	332,088.270	103.378
605+0.000	7,732,674.405	332,098.487	102.548
605+3.155 PT	7,732,677.433	332,099.362	102.381
606+0.000	7,732,693.922	332,102.804	101.488
607+0.000	7,732,713.501	332,106.889	100.428
607+6.400 PC	7,732,719.766	332,108.197	100.089
608+0.000	7,732,733.175	332,110.447	99.368
608+8.625 PT	7,732,741.754	332,111.322	98.911
609+0.000	7,732,753.096	332,112.193	98.239
610+0.000	7,732,773.037	332,113.725	96.632
611+0.000	7,732,792.978	332,115.257	94.547
611+2.406 PC	7,732,795.377	332,115.441	94.294
612+0.000	7,732,812.958	332,115.717	92.790
612+18.495 PT	7,732,831.330	332,113.701	91.870
613+0.000	7,732,832.813	332,113.441	91.825
613+16.099 PC	7,732,848.670	332,110.664	91.367
614+0.000	7,732,852.538	332,110.168	91.256
615+0.000	7,732,872.120	332,113.207	90.686
615+0.437 PT	7,732,872.523	332,113.375	90.674
616+0.000	7,732,890.544	332,120.988	89.964
616+10.913 PC	7,732,900.596	332,125.234	89.135
617+0.000	7,732,908.842	332,129.049	88.165
618+0.000	7,732,925.972	332,139.337	85.291
618+2.169 PT	7,732,927.734	332,140.602	84.963
619+0.000	7,732,942.134	332,151.118	82.264
619+17.920 PC	7,732,956.605	332,161.687	79.960
620+0.000	7,732,958.297	332,162.898	79.745
620+14.153 PT	7,732,970.353	332,170.294	78.577
621+0.000	7,732,975.517	332,173.035	78.243
622+0.000	7,732,993.183	332,182.412	77.171
623+0.000	7,733,010.849	332,191.789	75.548
623+5.700 PC	7,733,015.883	332,194.461	74.971
624+0.000	7,733,028.721	332,200.756	73.376
624+0.693 PT	7,733,029.352	332,201.040	73.298
625+0.000	7,733,046.977	332,208.924	71.324
626+0.000	7,733,065.233	332,217.092	70.666
626+12.279 PC	7,733,076.441	332,222.106	71.041
627+0.000	7,733,083.828	332,224.272	71.402
627+17.659 PT	7,733,100.983	332,221.498	71.901
628+0.000	7,733,103.070	332,220.438	71.919
629+0.000	7,733,120.900	332,211.377	71.602
630+0.000	7,733,138.729	332,202.316	70.867
630+0.056 PC	7,733,138.780	332,202.291	70.865
630+17.927 PT	7,733,155.311	332,204.867	69.165
631+0.000	7,733,156.785	332,206.324	68.833
631+14.960 PC	7,733,167.428	332,216.838	66.396
632+0.000	7,733,170.948	332,220.444	65.729
632+18.129 PT	7,733,182.491	332,234.406	64.140
633+0.000	7,733,183.588	332,235.922	64.000
634+0.000	7,733,195.308	332,252.128	62.500
635+0.000	7,733,207.028	332,268.334	61.125
636+0.000	7,733,218.749	332,284.540	60.000
637+0.000	7,733,230.469	332,300.746	59.000
637+0.282 PC	7,733,230.634	332,300.975	58.986
638+0.000	7,733,244.762	332,314.580	58.000
638+5.036 PT	7,733,249.072	332,317.181	57.748
638+13.709 PC	7,733,256.694	332,321.320	57.327
639+0.000	7,733,262.543	332,323.590	57.094
639+9.796 PT	7,733,272.265	332,324.026	56.878
640+0.000	7,733,282.350	332,322.468	56.750
640+2.779 PC	7,733,285.096	332,322.043	56.715
641+0.000	7,733,302.090	332,323.509	56.420

# COORDENADAS DO EIXO DE PROJETO

Estaca	Coordenadas do eixo		Cota de projeto
	Norte	Este	
641+5.956 PT	7,733,307.551	332,325.871	56.222
641+11.994 PC	7,733,312.875	332,328.718	55.967
642+0.000	7,733,319.875	332,332.603	55.610
643+0.000	7,733,336.799	332,343.250	54.721
643+18.869 PT	7,733,351.957	332,354.480	53.927
644+0.000	7,733,352.840	332,355.187	53.882
645+0.000	7,733,368.460	332,367.678	53.144
646+0.000	7,733,384.079	332,380.170	52.539
646+4.887 PC	7,733,387.896	332,383.222	52.472
646+17.111 PT	7,733,399.207	332,387.215	52.474
647+0.000	7,733,402.097	332,387.227	52.510
647+19.297 PC	7,733,421.394	332,387.307	53.035
648+0.000	7,733,422.096	332,387.313	53.057
648+18.407 PT	7,733,440.300	332,389.735	53.588
649+0.000	7,733,441.843	332,390.131	53.618
649+3.623 PC	7,733,445.352	332,391.032	53.674
650+0.000	7,733,461.488	332,393.707	53.704
650+1.549 PT	7,733,463.033	332,393.815	53.688
651+0.000	7,733,481.450	332,394.938	53.316
651+13.225 PC	7,733,494.650	332,395.743	53.114
652+0.000	7,733,501.421	332,395.964	53.088
652+1.702 PT	7,733,503.123	332,395.959	53.089
653+0.000	7,733,521.420	332,395.777	53.316
654+0.000	7,733,541.419	332,395.578	53.708
655+0.000	7,733,561.418	332,395.379	53.657
655+6.662 PC	7,733,568.080	332,395.312	53.527
656+0.000	7,733,581.295	332,396.839	53.161
657+0.000	7,733,599.390	332,405.080	52.601
657+8.598 PT	7,733,605.985	332,410.582	52.360
658+0.000	7,733,614.124	332,418.567	51.912
658+1.026 PC	7,733,614.857	332,419.286	51.855
658+19.446 PT	7,733,625.227	332,434.371	50.375
659+0.000	7,733,625.447	332,434.879	50.317
660+0.000	7,733,633.412	332,453.225	47.995
660+11.362 PC	7,733,637.937	332,463.648	47.141
661+0.000	7,733,642.103	332,471.199	46.803
661+10.845 PT	7,733,649.215	332,479.353	46.757
662+0.000	7,733,656.007	332,485.491	46.870
662+12.254 PC	7,733,665.099	332,493.708	47.021
662+13.045 PT	7,733,665.724	332,494.191	47.031
663+0.000	7,733,671.537	332,498.009	47.117
664+0.000	7,733,688.254	332,508.989	47.363
665+0.000	7,733,704.971	332,519.968	46.997
666+0.000	7,733,721.687	332,530.948	45.407
667+0.000	7,733,738.404	332,541.928	43.203
667+11.850 PC	7,733,748.309	332,548.433	42.135
668+0.000	7,733,755.192	332,552.797	41.676
668+12.601 PT	7,733,766.102	332,559.099	41.408
669+0.000	7,733,772.599	332,562.638	41.500
670+0.000	7,733,790.162	332,572.206	42.000
670+15.634 PC	7,733,803.892	332,579.685	42.391
671+0.000	7,733,807.691	332,581.835	42.500
671+14.978 PT	7,733,820.161	332,590.119	42.874
672+0.000	7,733,824.184	332,593.125	43.000
672+8.949	7,733,831.352	332,598.482	

# **COORDENADAS DOS PONTOS TOPOGRÁFICOS DE REFERENCIA**

<b>Pt</b>	<b>Norte</b>	<b>Este</b>	<b>Cota</b>
D1	7,733,709.384	328,221.896	583.612
G2	7,732,656.784	330,350.110	483.737
G3	7,732,641.981	330,307.562	488.915
G4	7,732,623.355	330,278.513	493.820
G5	7,732,640.636	330,242.481	502.020
G6	7,732,748.306	330,182.558	492.058
G7	7,732,794.733	330,165.585	486.462
G8	7,732,835.577	330,129.271	479.849
G9	7,732,843.909	330,068.765	475.847
G10	7,733,014.892	330,022.366	473.940
G11	7,733,047.868	330,037.244	474.817
G12	7,733,090.776	330,017.801	471.312
G13	7,733,205.471	330,011.875	476.305
G14	7,733,258.379	330,022.074	479.563
G15	7,733,340.034	329,989.489	486.180
G16	7,733,341.225	329,962.447	486.986
G17	7,733,313.257	329,829.513	498.192
G18	7,733,331.040	329,754.656	504.272
G19	7,733,337.540	329,694.906	505.726
G20	7,733,368.669	329,664.252	506.783
G21	7,733,414.423	329,584.095	502.442
G22	7,733,453.327	329,446.093	492.044
G23	7,733,508.995	329,333.216	501.507
G24	7,733,454.837	329,202.776	503.366
G25	7,733,439.254	329,111.439	510.268
G26	7,733,429.701	329,032.559	519.175
G27	7,733,504.839	328,924.646	530.701
G28	7,733,498.243	328,876.444	535.250
G29	7,733,540.087	328,754.953	543.682
G30	7,733,593.516	328,717.421	549.191
G31	7,733,619.581	328,672.381	552.160
G32	7,733,666.772	328,729.633	559.667
G33	7,733,656.702	328,671.557	566.436
G34	7,733,686.582	328,628.036	573.193

<b>Pt</b>	<b>Norte</b>	<b>Este</b>	<b>Cota</b>
G35	7,733,658.225	328,564.437	581.755
G36	7,733,609.238	328,464.905	593.911
G37	7,733,611.110	328,450.768	594.357
G39	7,733,666.483	328,332.924	585.689
G41	7,733,721.960	328,301.098	585.064
G42	7,733,700.689	328,231.266	584.214
G43	7,733,703.628	328,172.466	581.350
G44	7,733,720.619	328,107.969	579.608
G45	7,733,701.270	328,018.802	582.387
G46	7,733,665.280	327,987.734	586.445
G47	7,733,577.706	327,992.818	591.171
G48	7,733,534.044	327,961.699	594.122
G49	7,733,478.462	327,978.097	595.279
G50	7,733,392.883	327,985.566	595.991
G51	7,733,336.705	327,980.957	598.667
G52	7,733,274.097	327,997.093	603.824
G53	7,733,198.338	327,950.252	592.898
G54	7,733,167.612	327,913.418	588.203
G55	7,733,132.327	327,895.496	584.260
G56	7,733,103.680	327,875.569	579.775
G57	7,733,032.716	327,889.366	574.128
G58	7,732,986.343	327,869.884	573.879
G59	7,732,939.593	327,866.791	573.231
G60	7,732,897.388	327,867.020	567.224
TM1	7,733,848.456	332,613.169	46.504
TM2	7,733,289.509	332,317.093	56.664
TM3	7,732,298.253	331,881.347	141.269
TM4	7,732,329.185	331,256.967	276.196
TM5	7,732,542.966	330,414.438	462.728
TM6	7,729,931.749	325,931.129	507.879
TM7	7,729,651.463	326,662.603	505.795
TM8	7,732,726.379	327,872.897	560.978
TM9	7,732,775.004	327,869.981	561.436
TM10	7,732,598.055	330,392.239	471.777