



**PREFEITURA MUNICIPAL DE
CAMPOS DE JÚLIO - MT
SECRETARIA DE OBRAS VIAÇÃO E SERVIÇOS PUBLICOS**



PROJETO EXECUTIVO DE ENGENHARIA

LOCAL : ESTRADA VICINAL RIO GRANDE DO SUL
TRECHO : RUA RONDONIA - BR-364
SEGMENTO : Est. 0+0,00 a Est. 42+12,628
EXTENSÃO : 852,628 m

**VOLUME 3 - NOTAS DE SERVIÇO DE TERRAPLENAGEM E
CÁLCULO DOS VOLUMES**

SETEMBRO DE 2019



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PROPRIETÁRIO: Prefeitura Municipal de Campos de Julio - MT
ELABORAÇÃO: PLANEJE PROJETOS ENGENHARIA E CONSTRUÇÃO LTDA-EPP
RESPONSÁVEL TÉCNICO: Eng.º Lourivaldo Pereira de Sousa Filho
VISTO: RN - 120489465-5
ART: Nº 3132795

SETEMBRO DE 2019

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APRESENTAÇÃO

A Planeje Projetos Engenharia e Construção LTDA EPP, sediado na Rua Vereador Abelardo, nº 103, bairro Construmat, Várzea Grande/MT, tem a honra de apresentar ao **Prefeitura Municipal de Campos de Júlio, Volume 03 – Notas de Serviço de Terraplenagem e Calculo de Volumes**, referente à Elaboração do Projeto Básico de Pavimentação Asfáltica e Drenagem, Estrada Vicinal RIO GRANDE DO SUL, extensão: 852,628 metros.

Objetivo

Permitir uma visão geral do projeto, procurando consubstanciar os dados coligidos, mostrando os roteiros metodológicos adotados, os resultados e conclusões das pesquisas dos estudos e projetos desenvolvidos e, ainda, as recomendações a respeito da implantação da obra.

Organização

Informamos também que em conformidade às instruções vigentes do DNIT, compõe este volume, o seguinte documento:

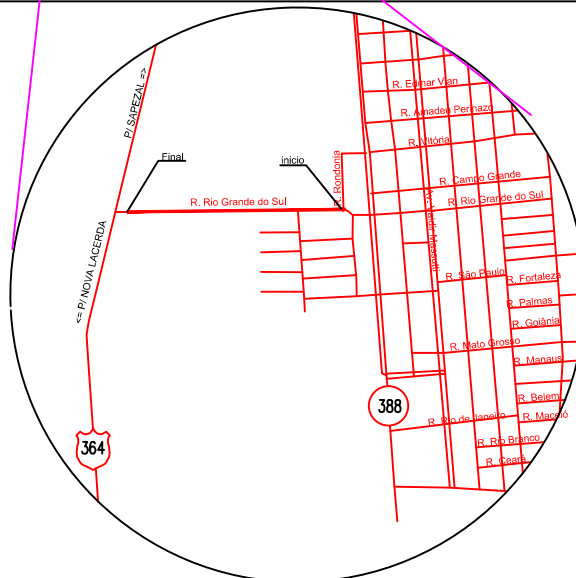
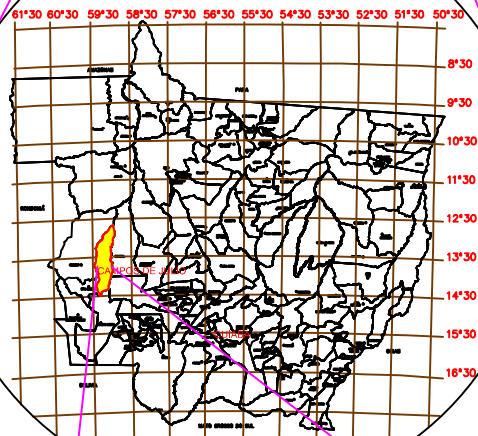
Coordenação

Neste volume encontram-se as informações básicas para execução de terraplenagem, inclusive os cálculos dos volumes.

BRASIL



MATO GROSSO



UTM	NORTE	LESTE	ALTITUDE
E-00	8.482.230,6194	255.160,7663	638,803
E-42+12,628	8.482.212,8275	254.301,4387	646,057



PREFEITURA MUNICIPAL DE CAMPOS DE JÚLIO

SECRETARIA DE OBRAS E SERVIÇOS PÚBLICOS

OBRA:

PAVIMENTAÇÃO ASFÁLTICA E DRENAGEM

TRECHO: ESTRADA VICINAL RIO GRANDE DO SUL
EXTENSÃO: 852,628 metros

ASSUNTO:

MAPA DE LOCALIZAÇÃO

ML - 01

Lado Esquerdo					Eixo					Lado Direito				
Offset		Lateral		Bordo	Cota	Terreno	Projeto	Cota	Vermelha	Bordo		Lateral		Offset
Estaca	Distância	Altura	Distância							Distância	Cota	Distância	Cota	
0	7,0815	638,717	6,6650	638,300	-3,00	638,803	638,500	0,303	6,6650	638,300	-3,00	6,6650	638,300	7,0594
0+0,795	7,0899	638,735	6,6650	638,310	-3,00	638,811	638,510	0,301	6,6650	638,310	-3,00	6,6650	638,310	7,0603
1	7,2440	639,137	6,6650	638,558	-3,00	639,066	638,758	0,308	6,6650	638,558	-3,00	6,6650	638,558	7,5613
1+10,598	7,3118	639,342	6,6650	638,695	-3,00	639,343	638,895	0,448	6,6650	638,695	-3,00	6,6650	638,695	7,1283
2	7,4514	639,602	6,6650	638,816	-3,00	639,573	639,016	0,557	6,6650	638,816	-3,00	6,6650	638,816	7,1012
3	7,2539	639,664	6,6650	639,075	-3,00	639,467	639,275	0,192	6,6650	639,075	-3,00	6,6650	639,075	7,0898
4	7,2120	639,880	6,6650	639,333	-3,00	639,572	639,533	0,039	6,6650	639,333	-3,00	6,6650	639,333	6,8197
5	7,0988	640,025	6,6650	639,591	-3,00	639,725	639,791	-0,066	6,6650	639,591	-3,00	6,6650	639,591	6,7737
6	7,4324	640,616	6,6650	639,849	-3,00	639,903	640,049	-0,146	6,6650	639,849	-3,00	6,6650	639,849	6,7634
7	7,0755	640,517	6,6650	640,107	-3,00	640,131	640,307	-0,176	6,6650	640,107	-3,00	6,6650	640,107	6,7856
8	6,6771	640,378	6,6650	640,366	-3,00	640,368	640,565	-0,197	6,6650	640,366	-3,00	6,6650	640,366	6,8372
8+16,619	6,9264	640,841	6,6650	640,580	-3,00	640,461	640,780	-0,319	6,6650	640,580	-3,00	6,6650	640,580	6,8594
9	6,7740	640,733	6,6650	640,624	-3,00	640,469	640,824	-0,355	6,6650	640,624	-3,00	6,6650	640,624	6,8554
10	7,2542	641,463	6,6650	640,874	-3,00	640,877	641,074	-0,197	6,6650	640,874	-3,00	6,6650	640,874	6,6895
11	6,9450	641,389	6,6650	641,109	-3,00	641,249	641,309	-0,060	6,6650	641,109	-3,00	6,6650	641,109	6,6660
12	7,2521	641,916	6,6650	641,329	-3,00	641,538	641,529	0,009	6,6650	641,329	-3,00	6,6650	641,329	6,7582
13	7,0167	641,886	6,6650	641,534	-3,00	641,748	641,734	0,014	6,6650	641,534	-3,00	6,6650	641,534	6,7799
14	7,1614	642,227	6,6650	641,731	-3,00	641,882	641,931	-0,049	6,6650	641,731	-3,00	6,6650	641,731	6,7963
15	7,0097	642,273	6,6650	641,928	-3,00	642,127	642,128	-0,001	6,6650	641,928	-3,00	6,6650	641,928	6,8445
16	6,7291	642,189	6,6650	642,125	-3,00	642,191	642,325	-0,134	6,6650	642,125	-3,00	6,6650	642,125	6,8796
16+12,37	6,6924	642,228	6,6650	642,246	-3,00	642,267	642,446	-0,179	6,6650	642,246	-3,00	6,6650	642,246	6,7974
17	6,8537	642,511	6,6650	642,322	-3,00	642,308	642,522	-0,214	6,6650	642,322	-3,00	6,6650	642,322	6,6744
18	7,0670	642,921	6,6650	642,519	-3,00	642,402	642,718	-0,316	6,6650	642,519	-3,00	6,6650	642,519	6,8396
19	7,1225	643,172	6,6650	642,715	-3,00	642,562	642,915	-0,353	6,6650	642,715	-3,00	6,6650	642,715	6,9286
20	7,2581	642,517	6,6650	642,912	-3,00	642,778	643,112	-0,334	6,6650	642,912	-3,00	6,6650	642,912	6,7759
21	7,6617	642,445	6,6650	643,109	-3,00	643,066	643,309	-0,243	6,6650	643,109	-3,00	6,6650	643,109	6,8353
21+1,681	7,6918	642,441	6,6650	643,126	-3,00	643,081	643,326	-0,245	6,6650	643,126	-3,00	6,6650	643,126	6,8320
22	7,1292	642,997	6,6650	643,306	-3,00	643,117	643,506	-0,389	6,6650	643,306	-3,00	6,6650	643,306	6,7465
23	6,8067	643,632	6,6650	643,490	-3,00	643,172	643,690	-0,518	6,6650	643,490	-3,00	6,6650	643,490	7,7907
24	6,6966	643,626	6,6650	643,647	-3,00	643,495	643,847	-0,352	6,6650	643,647	-3,00	6,6650	643,647	7,1940
25	7,3708	643,307	6,6650	643,778	-3,00	643,661	643,978	-0,317	6,6650	643,778	-3,00	6,6650	643,778	7,2138

Lado Esquerdo										Lado Direito									
Offset					Eixo					Bordo					Lateral				
Estaca	Distância	Cota	Altura	Distância	Cota	Terreno	Cota	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Distância	Cota	Altura
26	6,8965	643,728	-0,154	6,6650	643,882	-3,00	643,688	644,082	-0,394	6,6650	643,882	-3,00	6,6650	643,882	6,8814	643,738			-0,144
27	6,7116	643,942	-0,031	6,6650	643,973	-3,00	643,735	644,173	-0,438	6,6650	643,973	-3,00	6,6650	643,973	8,0905	643,023			-0,950
28	6,6961	644,095	0,031	6,6650	644,064	-3,00	643,774	644,264	-0,490	6,6650	644,064	-3,00	6,6650	644,064	7,2982	643,642			-0,422
29	7,5020	643,597	-0,558	6,6650	644,155	-3,00	644,025	644,355	-0,330	6,6650	644,155	-3,00	6,6650	644,155	6,7140	644,122			-0,033
30	7,1739	643,907	-0,339	6,6650	644,246	-3,00	644,112	644,445	-0,333	6,6650	644,246	-3,00	6,6650	644,246	6,8724	644,108			-0,138
31	6,6957	644,367	0,031	6,6650	644,336	-3,00	644,063	644,536	-0,473	6,6650	644,336	-3,00	6,6650	644,336	7,4786	643,794			-0,542
32	8,2578	643,365	-1,062	6,6650	644,427	-3,00	644,313	644,627	-0,314	6,6650	644,427	-3,00	6,6650	644,427	6,7110	644,396			-0,031
33	6,7104	644,488	-0,030	6,6650	644,518	-3,00	644,282	644,718	-0,436	6,6650	644,518	-3,00	6,6650	644,518	7,4122	644,020			-0,498
34	7,6313	643,970	-0,644	6,6650	644,614	-3,00	644,510	644,814	-0,304	6,6650	644,614	-3,00	6,6650	644,614	6,7741	644,541			-0,073
35	8,0133	643,822	-0,899	6,6650	644,721	-3,00	644,466	644,921	-0,455	6,6650	644,721	-3,00	6,6650	644,721	7,5519	644,130			-0,591
36	7,7686	644,103	-0,736	6,6650	644,839	-3,00	644,448	645,039	-0,591	6,6650	644,839	-3,00	6,6650	644,839	6,8455	644,719			-0,120
37	6,9733	644,761	-0,206	6,6650	644,967	-3,00	644,690	645,166	-0,476	6,6650	644,967	-3,00	6,6650	644,967	7,5963	644,346			-0,621
38	7,9514	644,242	-0,858	6,6650	645,100	-3,00	644,550	645,300	-0,750	6,6650	645,100	-3,00	6,6650	645,100	8,1960	644,079			-1,021
39	7,5652	644,633	-0,600	6,6650	645,233	-3,00	644,908	645,433	-0,525	6,6650	645,233	-3,00	6,6650	645,233	7,6243	644,593			-0,640
40	7,1956	645,012	-0,354	6,6650	645,366	-3,00	644,782	645,566	-0,784	6,6650	645,366	-3,00	6,6650	645,366	7,2394	644,983			-0,383
41	7,5880	644,885	-0,615	6,6650	645,500	-3,00	645,259	645,699	-0,440	6,6650	645,500	-3,00	6,6650	645,500	7,2499	645,110			-0,390
42	7,9825	644,755	-0,878	6,6650	645,633	-3,00	645,693	645,833	-0,140	6,6650	645,633	-3,00	6,6650	645,633	7,3981	645,144			-0,489
43	8,0210	644,862	-0,904	6,6650	645,766	-3,00	646,057	645,966	0,091	6,6650	645,766	-3,00	6,6650	645,766	7,7345	645,053			-0,713
44	8,4725	644,694	-1,205	6,6650	645,899	-3,00	646,013	646,099	-0,086	6,6650	645,899	-3,00	6,6650	645,899	8,8948	644,412			-1,487
45	7,1220	646,490	0,457	6,6650	646,033	-3,00	646,571	646,232	0,339	6,6650	646,033	-3,00	6,6650	646,033	7,2867	646,655			0,622
45+2,628	7,2369	646,622	0,572	6,6650	646,050	-3,00	646,549	646,250	0,299	6,6650	646,050	-3,00	6,6650	646,050	7,2830	646,668			0,618

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	V.C.Acum.	Vol.Aterro	V.A.Acum.
0	4,787	0,000					
			0,398	3,802	3,802	0,000	0,000
0+0,795	4,779	0,000					
			9,603	102,046	105,848	0,000	0,000
1	5,848	0,000					
			5,299	65,225	171,073	0,000	0,000
1+10,598	6,461	0,000					
			4,701	67,911	238,984	0,000	0,000
2	7,985	0,000					
			10,000	122,620	361,604	0,000	0,000
3	4,277	0,000					
			10,000	61,100	422,704	0,000	0,000
4	1,833	0,000					
			10,000	22,070	444,774	5,970	5,970
5	0,374	0,597					
			10,000	26,950	471,724	14,750	20,720
6	2,321	0,878					
			10,000	27,150	498,874	27,580	48,300
7	0,394	1,880					
			10,000	4,540	503,414	42,670	90,970
8	0,060	2,387					
			8,310	4,304	507,718	38,199	129,169
8+16,619	0,458	2,210					
			1,691	1,045	508,763	8,214	137,383
9	0,160	2,649					
			10,000	7,570	516,333	47,020	184,403
10	0,597	2,053					
			10,000	13,860	530,193	26,550	210,953
11	0,789	0,602					
			10,000	12,560	542,753	8,720	219,673
12	0,467	0,270					
			10,000	21,240	563,993	2,700	222,373
13	1,657	0,000					
			10,000	24,790	588,783	4,490	226,863
14	0,822	0,449					
			10,000	24,320	613,103	4,490	231,353
15	1,610	0,000					
			10,000	21,050	634,153	10,740	242,093
16	0,495	1,074					
			6,186	4,478	638,631	15,637	257,730
16+12,371	0,229	1,454					
			3,815	1,240	639,871	11,855	269,585
17	0,096	1,654					
			10,000	5,920	645,791	43,930	313,515
18	0,496	2,739					
			10,000	10,120	655,911	62,790	376,305
19	0,516	3,540					
			10,000	5,160	661,071	71,510	447,815
20	0,000	3,611					

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	V.C.Acum.	Vol.Aterro	V.A.Acum.
20	0,000	3,611					
			10,000	0,950	662,021	64,630	512,445
21	0,095	2,852					
			0,841	0,139	662,160	4,791	517,236
21+1,681	0,070	2,848					
			9,160	0,641	662,801	66,928	584,164
22	0,000	4,459					
			10,000	1,390	664,191	100,070	684,234
23	0,139	5,548					
			10,000	1,390	665,581	93,720	777,954
24	0,000	3,824					
			10,000	0,000	665,581	73,590	851,544
25	0,000	3,535					
			10,000	0,000	665,581	74,730	926,274
26	0,000	3,938					
			10,000	0,000	665,581	85,300	1.011,574
27	0,000	4,592					
			10,000	0,050	665,631	98,120	1.109,694
28	0,005	5,220					
			10,000	0,050	665,681	86,960	1.196,654
29	0,000	3,476					
			10,000	0,000	665,681	66,520	1.263,174
30	0,000	3,176					
			10,000	0,100	665,781	75,480	1.338,654
31	0,010	4,372					
			10,000	0,100	665,881	103,080	1.441,734
32	0,000	5,936					
			10,000	0,000	665,881	103,480	1.545,214
33	0,000	4,412					
			10,000	0,000	665,881	90,210	1.635,424
34	0,000	4,609					
			10,000	0,000	665,881	100,260	1.735,684
35	0,000	5,417					
			10,000	0,000	665,881	125,720	1.861,404
36	0,000	7,155					
			10,000	0,000	665,881	123,930	1.985,334
37	0,000	5,238					
			10,000	0,000	665,881	157,270	2.142,604
38	0,000	10,489					
			10,000	0,000	665,881	174,330	2.316,934
39	0,000	6,944					
			10,000	0,000	665,881	154,780	2.471,714
40	0,000	8,534					
			10,000	0,000	665,881	137,760	2.609,474
41	0,000	5,242					
			10,000	0,000	665,881	89,850	2.699,324
42	0,000	3,743					
			10,000	6,500	672,381	64,710	2.764,034
43	0,650	2,728					

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	V.C.Acum.	Vol.Aterro	V.A.Acum.
43	0,650	2,728					
			10,000	6,500	678,881	102,850	2.866,884
44	0,000	7,557					
			10,000	62,470	741,351	75,570	2.942,454
45	6,247	0,000					
			1,314	16,300	757,651	0,000	2.942,454
45+2,628	6,158	0,000					

	Corte	Aterro
Áreas	60,8850 m²	153,891 m²
Volumes	757,651 m3	2.942,454 m3

Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
0	PI-0	0,000	8.482.230,6194	255.160,7663	638,803	195°13'37"
0+0,795	PC1	0,795	8.482.230,8282	255.159,9994	638,811	195°13'37"
1		20,000	8.482.234,1756	255.141,1146	639,066	184°52'33"
1+10,598	PT1	30,598	8.482.234,5489	255.130,5276	639,343	179°09'49"
2		40,000	8.482.234,4117	255.121,1266	639,573	179°09'49"
3		60,000	8.482.234,1198	255.101,1288	639,467	179°09'49"
4		80,000	8.482.233,8279	255.081,1309	639,572	179°09'49"
5		100,000	8.482.233,5360	255.061,1330	639,725	179°09'49"
6		120,000	8.482.233,2441	255.041,1352	639,903	179°09'49"
7		140,000	8.482.232,9522	255.021,1373	640,131	179°09'49"
8		160,000	8.482.232,6603	255.001,1394	640,368	179°09'49"
8+16,619	PI2	176,619	8.482.232,4177	254.984,5219	640,461	178°23'47"
9	PCV1	180,000	8.482.232,2779	254.981,1441	640,469	177°37'45"
10		200,000	8.482.231,4506	254.961,1612	640,877	177°37'45"
11		220,000	8.482.230,6233	254.941,1783	641,249	177°37'45"
12		240,000	8.482.229,7959	254.921,1954	641,538	177°37'45"
13	PTV1	260,000	8.482.228,9686	254.901,2125	641,748	177°37'45"
14		280,000	8.482.228,1413	254.881,2297	641,882	177°37'45"
15		300,000	8.482.227,3140	254.861,2468	642,127	177°37'45"
16		320,000	8.482.226,4867	254.841,2639	642,191	177°37'45"
16+12,371	PI3	332,371	8.482.225,9750	254.828,9038	642,267	178°01'09"
17		340,000	8.482.225,7632	254.821,2775	642,308	178°24'33"
18		360,000	8.482.225,2079	254.801,2852	642,402	178°24'33"
19		380,000	8.482.224,6527	254.781,2929	642,562	178°24'33"
20		400,000	8.482.224,0974	254.761,3006	642,778	178°24'33"
21		420,000	8.482.223,5422	254.741,3083	643,066	178°24'33"
21+1,681	PI4	421,681	8.482.223,4955	254.739,6275	643,081	178°30'26"
22	PCV2	440,000	8.482.223,0497	254.721,3143	643,117	178°36'19"
23		460,000	8.482.222,5629	254.701,3203	643,172	178°36'19"
24		480,000	8.482.222,0761	254.681,3262	643,495	178°36'19"
25		500,000	8.482.221,5893	254.661,3321	643,661	178°36'19"
26	PTV2	520,000	8.482.221,1026	254.641,3380	643,688	178°36'19"
27		540,000	8.482.220,6158	254.621,3439	643,735	178°36'19"
28		560,000	8.482.220,1290	254.601,3499	643,774	178°36'19"
29		580,000	8.482.219,6423	254.581,3558	644,025	178°36'19"
30		600,000	8.482.219,1555	254.561,3617	644,112	178°36'19"
31		620,000	8.482.218,6687	254.541,3676	644,063	178°36'19"
32		640,000	8.482.218,1820	254.521,3736	644,313	178°36'19"
33	PCV3	660,000	8.482.217,6952	254.501,3795	644,282	178°36'19"
34		680,000	8.482.217,2084	254.481,3854	644,510	178°36'19"
35		700,000	8.482.216,7217	254.461,3913	644,466	178°36'19"
36		720,000	8.482.216,2349	254.441,3973	644,448	178°36'19"
37	PTV3	740,000	8.482.215,7481	254.421,4032	644,690	178°36'19"
38		760,000	8.482.215,2614	254.401,4091	644,550	178°36'19"
39		780,000	8.482.214,7746	254.381,4150	644,908	178°36'19"
40		800,000	8.482.214,2878	254.361,4210	644,782	178°36'19"
41		820,000	8.482.213,8010	254.341,4269	645,259	178°36'19"
42		840,000	8.482.213,3143	254.321,4328	645,693	178°36'19"
43		860,000	8.482.212,8275	254.301,4387	646,057	178°36'19"
44		880,000	8.482.212,3407	254.281,4447	646,013	178°36'19"
45		900,000	8.482.211,8540	254.261,4506	646,571	178°36'19"

Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
45+2,628	V4	902,628	8.482.211,7900	254.258,8230	646,549	178°36'19"

Estaca	Lado Esquerdo		Eixo		Lado Direito	
	Norte	Este	Norte	Este	Norte	Este
0	8.482.223,7865	255.158,90638	482.230,6194	255.160,76638	482.237,4310	255.162,6204
0+0,795	8.482.223,9872	255.158,13738	482.230,8282	255.159,99948	482.237,6406	255.161,8538
1	8.482.226,9578	255.140,49898	482.234,1756	255.141,11468	482.241,7095	255.141,7573
1+10,598	8.482.227,2379	255.130,63438	482.234,5489	255.130,52768	482.241,6765	255.130,4236
2	8.482.226,9611	255.121,23548	482.234,4117	255.121,12668	482.241,5121	255.121,0230
3	8.482.226,8667	255.101,23468	482.234,1198	255.101,12888	482.241,2088	255.101,0253
4	8.482.226,6167	255.081,23618	482.233,8279	255.081,13098	482.240,6469	255.081,0314
5	8.482.226,4380	255.061,23668	482.233,5360	255.061,13308	482.240,3090	255.061,0342
6	8.482.225,8125	255.041,24368	482.233,2441	255.041,13528	482.240,0068	255.041,0364
7	8.482.225,8774	255.021,24058	482.232,9522	255.021,13738	482.239,7371	255.021,0382
8	8.482.225,9839	255.001,23698	482.232,6603	255.001,13948	482.239,4968	255.001,0396
8+16,619	8.482.225,4940	254.984,71578	482.232,4177	254.984,52198	482.239,2745	254.984,3299
9	8.482.225,5097	254.981,42438	482.232,2779	254.981,14418	482.239,1274	254.980,8605
10	8.482.224,2026	254.961,46138	482.231,4506	254.961,16128	482.238,1344	254.960,8845
11	8.482.223,6842	254.941,46568	482.230,6233	254.941,17838	482.237,2836	254.940,9026
12	8.482.222,5501	254.921,49548	482.229,7959	254.921,19548	482.236,5484	254.920,9159
13	8.482.221,9579	254.901,50288	482.228,9686	254.901,21258	482.235,7427	254.900,9321
14	8.482.220,9861	254.881,52598	482.228,1413	254.881,22978	482.234,9318	254.880,9485
15	8.482.220,3103	254.861,53678	482.227,3140	254.861,24688	482.234,1526	254.860,9636
16	8.482.219,7634	254.841,54228	482.226,4867	254.841,26398	482.233,3604	254.840,9793
16+12,371	8.482.219,2866	254.829,13518	482.225,9750	254.828,90388	482.232,7683	254.828,6689
17	8.482.218,9121	254.821,46778	482.225,7632	254.821,27758	482.232,4350	254.821,0922
18	8.482.218,1436	254.801,48148	482.225,2079	254.801,28528	482.232,0449	254.801,0953
19	8.482.217,5329	254.781,49068	482.224,6527	254.781,29298	482.231,5786	254.781,1005
20	8.482.216,8421	254.761,50218	482.224,0974	254.761,30068	482.230,8707	254.761,1125
21	8.482.215,8834	254.741,52108	482.223,5422	254.741,30838	482.230,3748	254.741,1185
21+1,681	8.482.215,8063	254.739,82798	482.223,4955	254.739,62758	482.230,3252	254.739,4495
22	8.482.215,9226	254.721,48788	482.223,0497	254.721,31438	482.229,7942	254.721,1501
23	8.482.215,7582	254.701,48598	482.222,5629	254.701,32038	482.230,3513	254.701,1306
24	8.482.215,3815	254.681,48928	482.222,0761	254.681,32628	482.229,2680	254.681,1511
25	8.482.214,2207	254.661,51158	482.221,5893	254.661,33218	482.228,8010	254.661,1565
26	8.482.214,2081	254.641,50598	482.221,1026	254.641,33808	482.227,9819	254.641,1705

Estaca	Lado Esquerdo		Eixo		Lado Direito	
	Norte	Este	Norte	Este	Norte	Este
27	8.482.213,9062	254.621,50738	8.482.220,6158	254.621,34398	8.482.228,7039	254.621,1470
28	8.482.213,4349	254.601,51288	8.482.220,1290	254.601,34998	8.482.227,4251	254.601,1722
29	8.482.212,1425	254.581,53848	8.482.219,6423	254.581,35588	8.482.226,3543	254.581,1924
30	8.482.211,9837	254.561,53638	8.482.219,1555	254.561,36178	8.482.226,0259	254.561,1945
31	8.482.211,9750	254.541,53068	8.482.218,6687	254.541,36768	8.482.226,1451	254.541,1856
32	8.482.209,9266	254.521,57468	8.482.218,1820	254.521,37368	8.482.224,8910	254.521,2102
33	8.482.210,9868	254.501,54288	8.482.217,6952	254.501,37958	8.482.225,1052	254.501,1991
34	8.482.209,5794	254.481,57112	8.482.217,2084	254.481,38548	8.482.223,9805	254.481,2205
35	8.482.208,7107	254.461,58648	8.482.216,7217	254.461,39138	8.482.224,2713	254.461,2075
36	8.482.208,4686	254.441,58638	8.482.216,2349	254.441,39738	8.482.223,0784	254.441,2307
37	8.482.208,7769	254.421,57298	8.482.215,7481	254.421,40328	8.482.223,3422	254.421,2183
38	8.482.207,3123	254.401,60268	8.482.215,2614	254.401,40918	8.482.223,4549	254.401,2096
39	8.482.207,2116	254.381,59928	8.482.214,7746	254.381,41508	8.482.222,3966	254.381,2295
40	8.482.207,0943	254.361,59618	8.482.214,2878	254.361,42108	8.482.221,5251	254.361,2448
41	8.482.206,2153	254.341,61116	8.482.213,8010	254.341,42698	8.482.221,0488	254.341,2504
42	8.482.205,3341	254.321,62718	8.482.213,3143	254.321,43288	8.482.220,7102	254.321,2528
43	8.482.204,8089	254.301,63408	8.482.212,8275	254.301,43878	8.482.220,5597	254.301,2505
44	8.482.203,8707	254.281,65098	8.482.212,3407	254.281,44478	8.482.221,2329	254.281,2282
45	8.482.204,7341	254.261,62398	8.482.211,8540	254.261,45068	8.482.219,1385	254.261,2732
45+2,628	8.482.204,5552	254.258,99918	8.482.211,7900	254.258,82308	8.482.219,0708	254.258,6457

Meridiano	Datum
-57°00'00"	SIRGAS2000

Nome	Descrição	Norte	Este	Altitude
AM-00		8.482.260,3720	255.153,8730	638,811
AM-01		8.482.239,4440	254.782,9260	642,929
AM-02		8.482.233,6390	254.331,4540	645,261
RN-00		8.482.239,7120	255.174,2900	638,606
RN-01		8.482.241,2540	254.839,9220	642,525
RN-02		8.482.234,6090	254.289,5790	644,652