



Eslaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
0	PI0	0,000	9.248.344,8798	531.960,7063	297,7238	42°35'48"
1		20,000	9.248.331,3431	531.975,4290	297,9089	42°35'48"
1+7,937	PI1	27,937	9.248.325,9710	531.981,2719	297,9823	47°52'11"
2		40,000	9.248.316,3191	531.988,5074	298,4888	53°08'35"
2+11,619	PI2	51,619	9.248.307,0222	531.995,4768	298,9767	49°18'28"
3		60,000	9.248.301,0474	532.001,3539	298,7083	45°28'21"
4		80,000	9.248.286,7891	532.015,3789	298,0678	45°28'21"
4+8,944	PI3	88,944	9.248.280,4129	532.021,6508	297,7814	40°13'11"
5		100,000	9.248.274,0765	532.030,7111	296,7427	34°58'02"
6		120,000	9.248.262,6144	532.047,1007	294,8636	34°58'02"
6+4,290	PI4	124,290	9.248.260,1558	532.050,6162	294,4606	39°18'23"
7		140,000	9.248.249,3128	532.061,9844	293,7057	43°38'44"
7+3,328	PI5	143,328	9.248.247,0158	532.064,3926	293,5458	50°19'07"
8		160,000	9.248.233,0348	532.073,4749	293,2072	56°59'30"
9		180,000	9.248.216,2630	532.084,3701	292,8011	56°59'30"
10		200,000	9.248.199,4912	532.095,2654	292,3950	56°59'30"
10+1,092	PI6	201,092	9.248.198,5751	532.095,8605	292,3728	58°33'52"
11		220,000	9.248.182,1781	532.105,2750	292,2552	60°08'14"
12		240,000	9.248.164,8337	532.115,2335	292,1309	60°08'14"
12+4,324	PI7	244,324	9.248.161,0841	532.117,3864	292,1040	67°10'51"
13		260,000	9.248.145,9982	532.121,6483	292,3885	74°13'29"
14		280,000	9.248.126,7515	532.127,0650	292,7514	74°13'29"
14+13,934	PI8	293,934	9.248.113,3420	532.130,8739	293,0042	66°08'17"
15		300,000	9.248.108,1952	532.134,0836	292,8161	58°03'04"
16		320,000	9.248.091,2248	532.144,6668	292,1959	58°03'04"
16+9,667	PI9	329,667	9.248.083,0224	532.149,7820	291,8961	55°18'25"
17		340,000	9.248.074,8175	532.156,0636	291,9303	52°33'46"
18		360,000	9.248.058,9371	532.168,2214	291,9965	52°33'46"
19		380,000	9.248.043,0567	532.180,3792	292,0626	52°33'46"
19+0,902	PI10	380,902	9.248.042,3404	532.180,9276	292,0656	60°20'48"
20		400,000	9.248.024,6169	532.188,0415	292,1009	68°07'49"
21		420,000	9.248.006,0563	532.195,4915	292,1378	68°07'49"
21+8,535	PI11	428,535	9.247.998,1351	532.198,6709	292,1536	70°04'35"
22		440,000	9.247.987,2303	532.202,2094	292,6650	72°01'21"
22+15,990	PI12	455,990	9.247.972,0211	532.207,1445	293,3783	68°26'08"
23		460,000	9.247.968,3911	532.208,8489	293,5340	64°50'55"
24		480,000	9.247.950,2874	532.217,3491	294,3108	64°50'55"
24+5,640	PI13	485,640	9.247.945,1823	532.219,7461	294,5298	69°37'45"
25		500,000	9.247.931,3504	532.223,6055	294,1370	74°24'36"
25+14,397	PI14	514,397	9.247.917,4831	532.227,4747	293,7431	74°28'33"
26		520,000	9.247.912,0828	532.228,9681	293,6723	74°32'31"
27		540,000	9.247.892,8063	532.234,2988	293,4197	74°32'31"
27+11,098	PI15	551,098	9.247.882,1097	532.237,2568	293,2795	75°40'39"
28		560,000	9.247.873,4425	532.239,2876	293,3165	76°48'48"
29		580,000	9.247.853,9698	532.243,8500	293,3996	76°48'48"
30		600,000	9.247.834,4972	532.248,4125	293,4828	76°48'48"
31		620,000	9.247.815,0246	532.252,9750	293,5659	76°48'48"
31+13,934	PI16	633,934	9.247.801,4575	532.256,1538	293,6238	78°18'59"



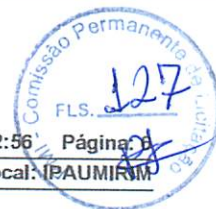
Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
32		640,000	9.247.795,4875	532.257,2259	293,6325	79°49'11"
33		660,000	9.247.775,8023	532.260,7608	293,6613	79°49'11"
33+10,308	PI17	670,308	9.247.765,6566	532.262,5827	293,6761	76°03'31"
34		680,000	9.247.756,4236	532.265,5298	293,6058	72°17'51"
35		700,000	9.247.737,3706	532.271,6113	293,4460	72°17'51"
35+14,519	PI18	714,519	9.247.723,5394	532.276,0260	293,3300	67°17'10"
36		720,000	9.247.718,6874	532.278,5761	293,3079	62°16'28"
36+12,535	PI19	732,535	9.247.707,5915	532.284,4079	293,2572	53°10'18"
37		740,000	9.247.702,3995	532.289,7715	293,2482	44°04'08"
37+16,061	PI20	756,061	9.247.691,2284	532.301,3117	293,2289	46°11'00"
38		760,000	9.247.688,2878	532.303,9318	293,2322	48°17'52"
39		780,000	9.247.673,3556	532.317,2370	293,2489	48°17'52"
39+7,487	PI21	787,487	9.247.667,7654	532.322,2181	293,2551	53°45'20"
40		800,000	9.247.657,0161	532.328,6226	293,2873	59°12'48"
41		820,000	9.247.639,8345	532.338,8595	293,3389	59°12'48"
41+2,371	PI22	822,371	9.247.637,7972	532.340,0733	293,3450	63°01'03"
42		840,000	9.247.621,5916	532.347,0117	293,4629	66°49'19"
42+12,695	PI23	852,695	9.247.609,9216	532.352,0082	293,4949	70°00'37"
43		860,000	9.247.602,9281	532.354,1199	293,5511	73°11'54"
44		880,000	9.247.583,7818	532.359,9010	293,7051	73°11'54"
44+12,413	PI24	892,413	9.247.571,8988	532.363,4891	293,8007	73°03'29"
45		900,000	9.247.564,0405	532.365,7176	293,9495	72°55'04"
46		920,000	9.247.545,5288	532.371,5927	294,3417	72°55'04"
47		940,000	9.247.526,4111	532.377,4676	294,7338	72°55'04"
47+3,318	PI25	943,318	9.247.523,2396	532.378,4422	294,7989	70°58'37"
48		960,000	9.247.507,6617	532.384,4107	294,8786	69°02'10"
48+14,490	PI26	974,490	9.247.494,1306	532.389,5950	294,9478	64°47'26"
49		980,000	9.247.489,3331	532.392,3043	295,0030	60°32'42"
50		1000,000	9.247.471,9182	532.402,1391	295,2034	60°32'42"
50+15,167	PI27	1015,167	9.247.458,7113	532.409,5975	295,3553	67°29'03"
51		1020,000	9.247.454,0562	532.410,8952	295,3693	74°25'23"
52		1040,000	9.247.434,7908	532.416,2658	295,4270	74°25'23"
52+13,244	PI28	1053,244	9.247.422,0328	532.419,8224	295,4653	79°12'36"
53		1060,000	9.247.415,3143	532.420,5289	295,5409	83°59'48"
54		1080,000	9.247.395,4240	532.422,6207	295,7646	83°59'48"
55		1100,000	9.247.375,5336	532.424,7124	295,9883	83°59'48"
55+18,224	PI29	1118,224	9.247.357,4095	532.426,6184	296,1921	82°42'27"
56		1120,000	9.247.355,6535	532.426,8834	296,2178	81°25'06"
57		1140,000	9.247.335,8774	532.429,8677	296,5069	81°25'06"
57+15,293	PI30	1155,293	9.247.320,7556	532.432,1497	296,7280	79°22'05"
58		1160,000	9.247.316,1634	532.433,1831	296,6856	77°19'03"
59		1180,000	9.247.296,6514	532.437,5741	296,5054	77°19'03"
60		1200,000	9.247.277,1394	532.441,9650	296,3251	77°19'03"
60+10,533	PI31	1210,533	9.247.266,8631	532.444,2776	296,2302	78°29'16"
61		1220,000	9.247.257,5502	532.445,9771	296,1909	79°39'29"
62		1240,000	9.247.237,8751	532.449,5675	296,1080	79°39'29"
62+19,418	PI32	1259,418	9.247.218,7727	532.453,0534	296,0275	77°06'39"
63		1260,000	9.247.218,2115	532.453,2084	296,0289	74°33'49"



Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
64		1280,000	9.247.198,9330	532.458,5317	296,0768	74°33'49"
64+13,804	PI33	1293,804	9.247.185,6268	532.462,2059	296,1099	66°15'39"
65		1300,000	9.247.180,3748	532.465,4930	296,1063	57°57'29"
66		1320,000	9.247.163,4216	532.476,1038	296,0949	57°57'29"
66+14,887	PI34	1334,887	9.247.150,8021	532.484,0022	296,0863	56°15'55"
67		1340,000	9.247.146,6362	532.486,9658	296,1853	54°34'20"
68		1360,000	9.247.130,3392	532.498,5593	296,5726	54°34'20"
69		1380,000	9.247.114,0423	532.510,1529	296,9599	54°34'20"
69+9,971	PI35	1389,971	9.247.105,9171	532.515,9331	297,1530	55°01'44"
70		1400,000	9.247.097,6538	532.521,6154	296,9767	55°29'07"
71		1420,000	9.247.081,1741	532.532,9478	296,6251	55°29'07"
71+15,024	PI36	1435,024	9.247.068,7944	532.541,4608	296,3609	56°26'55"
72		1440,000	9.247.064,6020	532.544,1407	296,3613	57°24'43"
73		1460,000	9.247.047,7507	532.554,9126	296,3631	57°24'43"
74		1480,000	9.247.030,8994	532.565,6845	296,3649	57°24'43"
74+17,089	PI37	1497,089	9.247.016,5007	532.574,8886	296,3664	60°31'46"
75		1500,000	9.247.013,8924	532.576,1807	296,3699	63°38'49"
76		1520,000	9.246.995,9708	532.585,0587	296,3937	63°38'49"
76+12,881	PI38	1532,881	9.246.984,4280	532.590,7768	296,4091	65°52'12"
77		1540,000	9.246.977,8236	532.593,4327	296,4207	68°05'34"
78		1560,000	9.246.959,2678	532.600,8949	296,4535	68°05'34"
79		1580,000	9.246.940,7120	532.608,3570	296,4662	68°05'34"
80		1600,000	9.246.922,1562	532.615,8191	296,5189	68°05'34"
81		1620,000	9.246.903,6005	532.623,2812	296,5516	68°05'34"
81+3,030	PI39	1623,030	9.246.900,7894	532.624,4117	296,5566	65°20'48"
82		1640,000	9.246.885,7229	532.632,2211	296,5266	62°36'03"
83		1660,000	9.246.867,9665	532.641,4249	296,4912	62°36'03"
83+16,072	PI40	1676,072	9.246.853,6973	532.648,8211	296,4627	68°29'10"
84		1680,000	9.246.849,9147	532.649,8793	296,5230	74°22'17"
85		1700,000	9.246.830,6541	532.655,2673	296,8302	74°22'17"
86		1720,000	9.246.811,3935	532.660,6553	297,1374	74°22'17"
86+5,412	PI41	1725,412	9.246.806,1818	532.662,1132	297,2205	74°08'30"
87		1740,000	9.246.792,1650	532.666,1559	297,5246	73°54'42"
88		1760,000	9.246.772,9483	532.671,6983	297,9415	73°54'42"
88+13,805	PI42	1773,805	9.246.759,6839	532.675,5239	298,2292	73°32'19"
89		1780,000	9.246.753,7544	532.677,3180	298,4039	73°09'57"
89+11,045	PI43	1791,045	9.246.743,1825	532.680,5167	298,7153	75°41'37"
90		1800,000	9.246.734,4163	532.682,3447	299,6265	78°13'17"
91		1820,000	9.246.714,8374	532.686,4273	301,6617	78°13'17"
91+3,369	PI44	1823,369	9.246.711,5391	532.687,1151	302,0045	76°50'36"
92		1840,000	9.246.695,4406	532.691,2889	302,0600	75°27'55"
92+15,340	PI45	1855,340	9.246.680,5914	532.695,1388	302,1112	75°32'29"
93		1860,000	9.246.676,0776	532.696,2963	301,8705	75°37'03"
93+16,030	PI46	1876,030	9.246.660,5502	532.700,2780	301,0425	75°49'08"
94		1880,000	9.246.656,6976	532.701,2371	301,1907	76°01'14"
95		1900,000	9.246.637,2899	532.706,0686	301,9375	76°01'14"
95+11,650	PI47	1911,650	9.246.625,9853	532.708,8828	302,3725	74°39'05"
96		1920,000	9.246.617,9879	532.711,2849	302,4807	73°16'55"



Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimuth
129		2580,000	9.246.052,9986	533.034,2296	300,5818	55°42'01"
129+12,166	PI64	2592,166	9.246.042,9479	533.041,0857	300,6130	50°43'15"
130		2600,000	9.246.037,3375	533.046,5527	300,7000	45°44'29"
131		2620,000	9.246.023,0136	533.060,5107	300,9221	45°44'29"
131+2,418	PI65	2622,418	9.246.021,2820	533.062,1981	300,9489	41°14'05"
132		2640,000	9.246.010,7674	533.076,2899	301,1490	36°43'42"
133		2660,000	9.245.998,8070	533.092,3195	301,3767	36°43'42"
134		2680,000	9.245.986,8466	533.108,3491	301,6044	36°43'42"
134+14,895	PI66	2694,895	9.245.977,9390	533.120,2871	301,7739	39°21'41"
135		2700,000	9.245.974,5235	533.124,0812	301,9264	41°59'39"
136		2720,000	9.245.961,1424	533.138,9454	302,5240	41°59'39"
136+6,146	PI67	2726,146	9.245.957,0306	533.143,5129	302,7076	45°26'42"
137		2740,000	9.245.946,5911	533.152,6212	303,4923	48°53'45"
138		2760,000	9.245.931,5208	533.165,7698	304,6252	48°53'45"
138+10,125	PI68	2770,125	9.245.923,8915	533.172,4262	305,1987	43°56'50"
139		2780,000	9.245.917,6771	533.180,1007	304,8833	38°59'56"
140		2800,000	9.245.905,0910	533.195,6439	304,2446	38°59'56"
140+17,709	PI69	2817,709	9.245.893,9464	533.209,4069	303,6791	41°49'02"
141		2820,000	9.245.892,3370	533.211,0369	303,6598	44°38'09"
142		2840,000	9.245.878,2851	533.225,2686	303,4914	44°38'09"
142+16,442	PI70	2856,442	9.245.866,7326	533.236,9689	303,3530	48°59'50"
143		2860,000	9.245.863,8781	533.239,0921	303,4615	53°21'30"
144		2880,000	9.245.847,8304	533.251,0282	304,0716	53°21'30"
144+3,233	PI71	2883,233	9.245.845,2359	533.252,9580	304,1702	51°35'59"
145		2900,000	9.245.832,4219	533.263,7708	304,3386	49°50'29"
145+19,735	PI72	2919,735	9.245.817,3394	533.276,4979	304,5368	53°37'43"
146		2920,000	9.245.817,1159	533.276,6407	304,5318	57°24'57"
147		2940,000	9.245.800,2639	533.287,4115	304,1578	57°24'57"
147+11,067	PI73	2951,067	9.245.790,9385	533.293,3717	303,9508	62°41'00"
148		2960,000	9.245.782,6592	533.296,7250	303,8848	67°57'03"
149		2980,000	9.245.764,1220	533.304,2331	303,7369	67°57'03"
149+10,676	PI74	2990,676	9.245.754,2265	533.308,2410	303,6522	71°55'29"
150		3000,000	9.245.745,1838	533.310,5126	303,7740	75°53'55"
150+19,433	PI75	3019,433	9.245.726,3359	533.315,2474	304,0278	88°29'21"
151		3020,000	9.245.725,7799	533.315,1385	304,0513	101°04'47"
152		3040,000	9.245.706,1527	533.311,2951	304,8877	101°04'47"
152+0,175	PI76	3040,175	9.245.705,9808	533.311,2614	304,8950	102°31'27"
153		3060,000	9.245.686,7423	533.306,4759	306,4453	103°58'07"
153+16,542	PI77	3076,542	9.245.670,6899	533.302,4829	307,7389	79°21'50"
154		3080,000	9.245.667,8652	533.304,4785	307,8559	54°45'33"
154+6,820	PI78	3086,820	9.245.662,2948	533.308,4140	308,0865	35°25'46"
155		3100,000	9.245.658,6400	533.321,0767	307,9266	16°05'59"
155+14,226	PI79	3114,226	9.245.654,6950	533.334,7447	307,7540	13°58'41"
156		3120,000	9.245.653,5087	533.340,3956	307,8330	11°51'22"
157		3140,000	9.245.649,3996	533.359,9689	308,0790	11°51'22"
157+12,234	PI80	3152,234	9.245.646,8860	533.371,9419	308,1514	6°15'45"
158		3160,000	9.245.646,7953	533.379,7074	308,3947	0°40'08"
158+14,309	PI81	3174,309	9.245.646,6283	533.394,0150	308,8429	0°22'34"



Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
159		3180,000	9.245.646,6200	533.399,7064	308,8576	0°04'59"
160		3200,000	9.245.646,5910	533.419,7064	308,9093	0°04'59"
161		3220,000	9.245.646,5620	533.439,7064	308,9610	0°04'59"
161+5,777	PI82	3225,777	9.245.646,5536	533.445,4838	308,9759	358°41'59"
162		3240,000	9.245.647,2195	533.459,6908	308,9822	357°18'59"
162+16,064	PI83	3256,064	9.245.647,9716	533.475,7367	308,9893	350°31'48"
163		3260,000	9.245.649,0736	533.479,5158	308,9795	343°44'36"
163+18,770	PI84	3278,770	9.245.654,3280	533.497,5352	308,9330	340°31'56"
164		3280,000	9.245.654,8023	533.498,6702	308,9320	337°19'17"
165		3300,000	9.245.662,5136	533.517,1238	308,9161	337°19'17"
166		3320,000	9.245.670,2248	533.535,5774	308,9001	337°19'17"
166+8,664	PI85	3328,664	9.245.673,5653	533.543,5714	308,8932	333°29'15"
167		3340,000	9.245.679,2926	533.553,3544	308,9378	329°39'14"
167+12,346	PI86	3352,346	9.245.685,5301	533.564,0088	308,9864	326°38'17"
168		3360,000	9.245.690,0698	533.570,1712	309,2072	323°37'20"
169		3380,000	9.245.701,9319	533.586,2737	309,7840	323°37'20"
169+3,010	PI87	3383,010	9.245.703,7170	533.588,6969	309,8708	331°04'26"
170		3400,000	9.245.709,9369	533.604,5077	310,2591	338°31'32"
170+12,959	PI88	3412,959	9.245.714,6808	533.616,5668	310,5552	334°44'18"
171		3420,000	9.245.718,0998	533.622,7224	311,0856	330°57'03"
172		3440,000	9.245.727,8110	533.640,2064	312,5921	330°57'03"
172+0,295	PI89	3440,295	9.245.727,9541	533.640,4040	312,6143	331°12'42"
173		3460,000	9.245.737,3649	533.657,7769	313,2291	331°28'22"
174		3480,000	9.245.746,9165	533.675,3487	313,8531	331°28'22"
174+12,273	PI90	3492,273	9.245.752,7778	533.686,1317	314,2360	340°47'42"
175		3500,000	9.245.754,1040	533.693,7440	314,2138	350°07'02"
176		3520,000	9.245.757,5366	533.713,4472	314,1562	350°07'02"
176+10,861	PI91	3530,861	9.245.759,4006	533.724,1467	314,1249	358°26'05"
177		3540,000	9.245.758,3261	533.733,2227	313,9261	6°45'07"
178		3560,000	9.245.755,9747	533.753,0840	313,4910	6°45'07"
179		3580,000	9.245.753,6233	533.772,9453	313,0560	6°45'07"
179+3,295	PI92	3583,295	9.245.753,2359	533.776,2177	312,9843	5°51'14"
180		3600,000	9.245.751,7927	533.792,8600	312,3101	4°57'22"
181		3620,000	9.245.750,0649	533.812,7852	311,5029	4°57'22"
181+13,769	PI93	3633,769	9.245.748,8753	533.826,5032	310,9471	355°40'25"
182		3640,000	9.245.750,3413	533.832,5588	310,8393	346°23'29"
183		3660,000	9.245.755,0470	533.851,9973	310,4932	346°23'29"
184		3680,000	9.245.759,7528	533.871,4358	310,1471	346°23'29"
185		3700,000	9.245.764,4586	533.890,8743	309,8011	346°23'29"
186		3720,000	9.245.769,1644	533.910,3128	309,4550	346°23'29"
186+2,917	PI94	3722,917	9.245.769,8507	533.913,1478	309,4045	12°00'39"
187		3740,000	9.245.759,4204	533.926,6771	309,9357	37°37'49"
187+6,057	PI95	3746,057	9.245.755,7219	533.931,4744	310,1240	35°41'37"
188		3760,000	9.245.747,9745	533.943,0663	310,5219	33°45'25"
189		3780,000	9.245.736,8610	533.959,6943	311,0927	33°45'25"
189+4,224	PI96	3784,224	9.245.734,5138	533.963,2063	311,2132	26°50'45"
189+17,682	PI97	3797,682	9.245.729,9254	533.975,8577	310,8927	10°06'46"
190		3800,000	9.245.729,9136	533.978,1757	310,9040	0°17'27"



Estaca	Descrição	Progressiva	Norte	Este	Cota	Azimute
191		3820,000	9.245.729,8121	533.998,1755	311,0012	0°17'27"
191+9,263	PI98	3829,263	9.245.729,7651	534.007,4380	311,0463	356°58'46"
192		3840,000	9.245.730,9493	534.018,1099	311,4955	353°40'05"
192+7,232	PI99	3847,232	9.245.731,7469	534.025,2973	311,7981	349°16'18"
193		3860,000	9.245.735,0784	534.037,6234	312,3398	344°52'31"
194		3880,000	9.245.740,2969	534.056,9307	313,1883	344°52'31"
194+10,854	PI100	3890,854	9.245.743,1289	534.067,4087	313,6488	329°26'40"
195		3900,000	9.245.749,7064	534.073,7636	314,1933	314°00'50"
196		3920,000	9.245.764,0899	534.087,6603	315,3841	314°00'50"
196+4,375	PI101	3924,375	9.245.767,2362	534.090,7001	315,6446	303°59'47"
197		3940,000	9.245.781,5128	534.097,0501	316,5503	293°58'44"
198		3960,000	9.245.799,7867	534.105,1781	317,7097	293°58'44"
198+7,433	PI102	3967,433	9.245.806,5778	534.108,1987	318,1405	286°20'36"
199		3980,000	9.245.819,0003	534.110,1013	318,4471	278°42'28"
199+12,949	PI103	3992,949	9.245.831,8005	534.112,0618	318,7631	281°05'57"
200		4000,000	9.245.838,6565	534.113,7066	318,2259	283°29'26"
200+12,891	PI104	4012,891	9.245.851,1920	534.116,7139	317,2438	286°35'23"
201		4020,000	9.245.857,8852	534.119,1090	316,5231	289°41'20"
202		4040,000	9.245.876,7160	534.125,8472	314,4956	289°41'20"
203		4060,000	9.245.895,5467	534.132,5854	312,4681	289°41'20"
203+8,414	PI105	4068,414	9.245.903,4688	534.135,4202	311,6151	294°00'46"
204		4080,000	9.245.913,0005	534.140,9195	311,2249	296°20'12"
205		4100,000	9.245.931,2700	534.150,4125	310,5513	298°20'12"
206		4120,000	9.245.948,8734	534.159,9056	309,8778	298°20'12"
207		4140,000	9.245.966,4769	534.169,3986	309,2042	298°20'12"
208		4160,000	9.245.984,0804	534.178,8916	308,5306	298°20'12"
208+2,148	PI106	4162,148	9.245.985,9711	534.179,9112	308,4583	295°53'06"
209		4180,000	9.246.002,3507	534.187,0105	308,8137	293°25'59"
210		4200,000	9.246.020,7012	534.194,9641	309,2119	293°25'59"
210+2,571	PI107	4202,571	9.246.023,0605	534.195,9867	309,2631	294°00'42"
211		4220,000	9.246.038,9085	534.203,2391	310,2698	294°35'24"
212		4240,000	9.246.057,0947	534.211,5615	311,4250	294°35'24"
212+15,548	PI108	4255,548	9.246.071,2327	534.218,0314	312,3230	296°35'55"
213		4260,000	9.246.075,1411	534.220,1630	312,6077	298°36'26"
214		4280,000	9.246.092,6995	534.229,7391	313,8867	298°36'26"
214+2,686	PI109	4282,686	9.246.095,0572	534.231,0249	314,0584	301°11'47"
215		4300,000	9.246.109,4477	534.240,6533	315,2040	303°47'09"
215+12,862	PI110	4312,862	9.246.120,1379	534.247,8059	316,0550	309°17'49"
216		4320,000	9.246.125,2018	534.252,8361	316,3820	314°48'30"
216+16,529	PI111	4336,529	9.246.136,9288	534.264,4849	317,1392	317°50'59"
217		4340,000	9.246.139,1181	534.267,1780	317,2882	320°53'27"
218		4360,000	9.246.151,7341	534.282,6969	318,1465	320°53'27"
218+9,149	PI112	4369,149	9.246.157,5052	534.289,7960	318,5392	320°32'30"
219		4380,000	9.246.164,4522	534.298,1318	318,8806	320°11'32"
220		4400,000	9.246.177,2565	534.313,4957	319,5097	320°11'32"
220+0,225	PI113	4400,225	9.246.177,4006	534.313,6686	319,5168	320°11'32"



QUANTITATIVOS DE MATERIAL

PREFEITURA MUNICIPAL DE IPAUMIRIM

COMUNIDADE SERROTE

VOLUME 10 cm DE BASE

ESTACAS	DIST. ACUMULADO	LARGURA	COTA TN	C. ATERRO	VOLUME	DISTÂNCIA	V. ACUMULADO
0	0	5	297,7238	297,8238	0,5		
1	20	5	297,9089	298,0089	0,5	20	10
1+7,937	27,937	5	297,9823	298,0823	0,5	7,937	3,9685
2	40	5	298,4888	298,5888	0,5	12,063	6,0315
2+11,619	51,619	5	298,9767	299,0767	0,5	11,619	5,8095
3	60	5	298,7083	298,8083	0,5	8,381	4,1905
4	80	5	298,0678	298,1678	0,5	20	10
4+8,944	88,944	5	297,7814	297,8814	0,5	8,944	4,472
5	100	5	296,7427	296,8427	0,5	11,056	5,528
6	120	5	294,8636	294,9636	0,5	20	10
6+4,290	124,29	5	294,4606	294,5606	0,5	4,29	2,145
7	140	5	293,7057	293,8057	0,5	15,71	7,855
7+3,328	143,328	5	293,5458	293,6458	0,5	3,328	1,664
8	160	5	293,2072	293,3072	0,5	16,672	8,336
9	180	5	292,8011	292,9011	0,5	20	10
10	200	5	292,395	292,495	0,5	20	10
10+1,092	201,092	5	292,3728	292,4728	0,5	1,092	0,546
11	220	5	292,2552	292,3552	0,5	18,908	9,454
12	240	5	292,1309	292,2309	0,5	20	10
12+4,324	244,324	5	292,104	292,204	0,5	4,324	2,162
13	260	5	292,3885	292,4885	0,5	15,676	7,838
14	280	5	292,7514	292,8514	0,5	20	10
14+13,934	293,934	5	293,0042	293,1042	0,5	13,934	6,967
15	300	5	292,8161	292,9161	0,5	6,066	3,033
16	320	5	292,1959	292,2959	0,5	20	10
16+9,667	329,667	5	291,8961	291,9961	0,5	9,667	4,8335
17	340	5	291,9303	292,0303	0,5	10,333	5,1665
18	360	5	291,9965	292,0965	0,5	20	10
19	380	5	292,0626	292,1626	0,5	20	10
19+0,902	380,902	5	292,0656	292,1656	0,5	0,902	0,451
20	400	5	292,1009	292,2009	0,5	19,098	9,549
21	420	5	292,1378	292,2378	0,5	20	10
21+8,535	428,535	5	292,1536	292,2536	0,5	8,535	4,2675
22	440	5	292,665	292,765	0,5	11,465	5,7325
22+15,990	455,99	5	293,3783	293,4783	0,5	15,99	7,995
23	460	5	293,534	293,634	0,5	4,01	2,005
24	480	5	294,3108	294,4108	0,5	20	10
24+5,640	485,64	5	294,5298	294,6298	0,5	5,64	2,82
25	500	5	294,137	294,237	0,5	14,36	7,18
25+14,397	514,397	5	293,7431	293,8431	0,5	14,397	7,1985
26	520	5	293,6723	293,7723	0,5	5,603	2,8015
27	540	5	293,4197	293,5197	0,5	20	10
27+11,098	551,098	5	293,2795	293,3795	0,5	11,098	5,549

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28	560	5	293,3165	293,4165	0,5	8,902	4,451
29	580	5	293,3996	293,4996	0,5	20	10
30	600	5	293,4828	293,5828	0,5	20	10
31	620	5	293,5659	293,6659	0,5	20	10
31+13,934	633,934	5	293,6238	293,7238	0,5	13,934	6,967
32	640	5	293,6325	293,7325	0,5	6,066	3,033
33	660	5	293,6613	293,7613	0,5	20	10
33+10,308	670,308	5	293,6761	293,7761	0,5	10,308	5,154
34	680	5	293,6058	293,7058	0,5	9,692	4,846
35	700	5	293,446	293,546	0,5	20	10
35+14,519	714,519	5	293,33	293,43	0,5	14,519	7,2595
36	720	5	293,3079	293,4079	0,5	5,481	2,7405
36+12,535	732,535	5	293,2572	293,3572	0,5	12,535	6,2675
37	740	5	293,2482	293,3482	0,5	7,465	3,7325
37+16,061	756,061	5	293,2289	293,3289	0,5	16,061	8,0305
38	760	5	293,2322	293,3322	0,5	3,939	1,9695
39	780	5	293,2489	293,3489	0,5	20	10
39+7,487	787,487	5	293,2551	293,3551	0,5	7,487	3,7435
40	800	5	293,2873	293,3873	0,5	12,513	6,2565
41	820	5	293,3389	293,4389	0,5	20	10
41+2,371	822,371	5	293,345	293,445	0,5	2,371	1,1855
42	840	5	293,4629	293,5629	0,5	17,629	8,8145
42+12,695	852,695	5	293,4949	293,5949	0,5	12,695	6,3475
43	860	5	293,5511	293,6511	0,5	7,305	3,6525
44	880	5	293,7051	293,8051	0,5	20	10
44+12,413	892,413	5	293,8007	293,9007	0,5	12,413	6,2065
45	900	5	293,9495	294,0495	0,5	7,587	3,7935
46	920	5	294,3417	294,4417	0,5	20	10
47	940	5	294,7338	294,8338	0,5	20	10
47+3,318	943,318	5	294,7989	294,8989	0,5	3,318	1,659
48	960	5	294,8786	294,9786	0,5	16,682	8,341
48+14,490	974,49	5	294,9478	295,0478	0,5	14,49	7,245
49	980	5	295,003	295,103	0,5	5,51	2,755
50	1000	5	295,2034	295,3034	0,5	20	10
50+15,167	1015,167	5	295,3553	295,4553	0,5	15,167	7,5835
51	1020	5	295,3693	295,4693	0,5	4,833	2,4165
52	1040	5	295,427	295,527	0,5	20	10
52+13,244	1053,244	5	295,4653	295,5653	0,5	13,244	6,622
53	1060	5	295,5409	295,6409	0,5	6,756	3,378
54	1080	5	295,7646	295,8646	0,5	20	10
55	1100	5	295,9883	296,0883	0,5	20	10
55+18,224	1118,224	5	296,1921	296,2921	0,5	18,224	9,112
56	1120	5	296,2178	296,3178	0,5	1,776	0,888
57	1140	5	296,5069	296,6069	0,5	20	10
57+15,293	1155,293	5	296,778	296,878	0,5	15,293	7,6465
58	1160	5	296,6856	296,7856	0,5	4,707	2,3535
59	1180	5	296,5054	296,6054	0,5	20	10
60	1200	5	296,3251	296,4251	0,5	20	10
60+10,533	1210,533	5	296,2302	296,3302	0,5	10,533	5,2665

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61	1220	5	296,1909	296,2909	0,5	9,467	4,7335
62	1240	5	296,108	296,208	0,5	20	10
62+19,418	1259,418	5	296,0275	296,1275	0,5	19,418	9,709
63	1260	5	296,0289	296,1289	0,5	0,582	0,291
64	1280	5	296,0768	296,1768	0,5	20	10
64+13,804	1293,804	5	296,1099	296,2099	0,5	13,804	6,902
65	1300	5	296,1063	296,2063	0,5	6,196	3,098
66	1320	5	296,0949	296,1949	0,5	20	10
66+14,887	1334,887	5	296,0863	296,1863	0,5	14,887	7,4435
67	1340	5	296,1853	296,2853	0,5	5,113	2,5565
68	1360	5	296,5726	296,6726	0,5	20	10
69	1380	5	296,9599	297,0599	0,5	20	10
69+9,971	1389,971	5	297,153	297,253	0,5	9,971	4,9855
70	1400	5	296,9767	297,0767	0,5	10,029	5,0145
71	1420	5	296,6251	296,7251	0,5	20	10
71+15,024	1435,024	5	296,3609	296,4609	0,5	15,024	7,512
72	1440	5	296,3613	296,4613	0,5	4,976	2,488
73	1460	5	296,3631	296,4631	0,5	20	10
74	1480	5	296,3649	296,4649	0,5	20	10
74+17,089	1497,089	5	296,3664	296,4664	0,5	17,089	8,5445
75	1500	5	296,3699	296,4699	0,5	2,911	1,4555
76	1520	5	296,3937	296,4937	0,5	20	10
76+12,881	1532,881	5	296,4091	296,5091	0,5	12,881	6,4405
77	1540	5	296,4207	296,5207	0,5	7,119	3,5595
78	1560	5	296,4535	296,5535	0,5	20	10
79	1580	5	296,4862	296,5862	0,5	20	10
80	1600	5	296,5189	296,6189	0,5	20	10
81	1620	5	296,5516	296,6516	0,5	20	10
81+3,030	1623,03	5	296,5566	296,6566	0,5	3,03	1,515
82	1640	5	296,5266	296,6266	0,5	16,97	8,485
83	1660	5	296,4912	296,5912	0,5	20	10
83+16,072	1676,072	5	296,4627	296,5627	0,5	16,072	8,036
84	1680	5	296,523	296,623	0,5	3,928	1,964
85	1700	5	296,8302	296,9302	0,5	20	10
86	1720	5	297,1374	297,2374	0,5	20	10
86+5,412	1725,412	5	297,2205	297,3205	0,5	5,412	2,706
87	1740	5	297,5246	297,6246	0,5	14,588	7,294
88	1760	5	297,9415	298,0415	0,5	20	10
88+13,805	1773,805	5	298,2292	298,3292	0,5	13,805	6,9025
89	1780	5	298,4039	298,5039	0,5	6,195	3,0975
89+11,045	1791,045	5	298,7153	298,8153	0,5	11,045	5,5225
90	1800	5	299,6265	299,7265	0,5	8,955	4,4775
91	1820	5	301,6617	301,7617	0,5	20	10
91+3,369	1823,369	5	302,0045	302,1045	0,5	3,369	1,6845
92	1840	5	302,06	302,16	0,5	16,631	8,3155
92+15,340	1855,34	5	302,1112	302,2112	0,5	15,34	7,67
93	1860	5	301,8705	301,9705	0,5	4,66	2,33
93+16,030	1876,03	5	301,0425	301,1425	0,5	16,03	8,015
94	1880	5	301,1907	301,2907	0,5	3,97	1,985

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95	1900	5	301,9375	302,0375	0,5	20	10
95+11,650	1911,65	5	302,3725	302,4725	0,5	11,65	5,825
96	1920	5	302,4807	302,5807	0,5	8,35	4,175
96+12,107	1932,107	5	302,6377	302,7377	0,5	12,107	6,0535
97	1940	5	303,4452	303,5452	0,5	7,893	3,9465
97+4,028	1944,028	5	303,8573	303,9573	0,5	4,028	2,014
98	1960	5	304,0729	304,1729	0,5	15,972	7,986
99	1980	5	304,343	304,443	0,5	20	10
100	2000	5	304,613	304,713	0,5	20	10
100+13,804	2013,804	5	304,7994	304,8994	0,5	13,804	6,902
101	2020	5	304,4987	304,5987	0,5	6,196	3,098
102	2040	5	303,528	303,628	0,5	20	10
102+4,145	2044,145	5	303,3269	303,4269	0,5	4,145	2,0725
103	2060	5	302,8338	302,9338	0,5	15,855	7,9275
103+19,594	2079,594	5	302,2244	302,3244	0,5	19,594	9,797
104	2080	5	302,2412	302,3412	0,5	0,406	0,203
104+9,630	2089,63	5	302,6388	302,7388	0,5	9,63	4,815
105	2100	5	302,3022	302,4022	0,5	10,37	5,185
106	2120	5	301,6531	301,7531	0,5	20	10
106+13,771	2133,771	5	301,2061	301,3061	0,5	13,771	6,8855
107	2140	5	301,1053	301,2053	0,5	6,229	3,1145
108	2160	5	300,7815	300,8815	0,5	20	10
108+7,800	2167,8	5	300,6552	300,7552	0,5	7,8	3,9
109	2180	5	300,6628	300,7628	0,5	12,2	6,1
110	2200	5	300,6753	300,7753	0,5	20	10
110+14,013	2214,013	5	300,6841	300,7841	0,5	14,013	7,0065
111	2220	5	300,657	300,757	0,5	5,987	2,9935
112	2240	5	300,5662	300,6662	0,5	20	10
112+12,315	2252,315	5	300,5104	300,6104	0,5	12,315	6,1575
113	2260	5	300,4671	300,5671	0,5	7,685	3,8425
114	2280	5	300,3544	300,4544	0,5	20	10
115	2300	5	300,2418	300,3418	0,5	20	10
115+18,611	2318,611	5	300,1369	300,2369	0,5	18,611	9,3055
116	2320	5	300,1481	300,2481	0,5	1,389	0,6945
117	2340	5	300,3097	300,4097	0,5	20	10
118	2360	5	300,4712	300,5712	0,5	20	10
118+7,943	2367,943	5	300,5354	300,6354	0,5	7,943	3,9715
119	2380	5	300,8952	300,9952	0,5	12,057	6,0285
120	2400	5	301,4921	301,5921	0,5	20	10
120+18,880	2418,88	5	302,0555	302,1555	0,5	18,88	9,44
121	2420	5	302,0152	302,1152	0,5	1,12	0,56
121+19,545	2439,545	5	301,312	301,412	0,5	19,545	9,7725
122	2440	5	301,3029	301,4029	0,5	0,455	0,2275
123	2460	5	300,9025	301,0025	0,5	20	10
123+11,854	2471,854	5	300,7013	300,8013	0,5	11,854	5,927
124	2480	5	300,6711	300,7711	0,5	8,146	4,073
125	2500	5	300,597	300,697	0,5	20	10
126	2520	5	300,5229	300,6229	0,5	20	10
126+15,157	2535,157	5	300,4668	300,5668	0,5	15,157	7,5785

127	2540	5	300,4792	300,5792	0,5	4,843	2,4215
128	2560	5	300,5305	300,6305	0,5	20	10
129	2580	5	300,5818	300,6818	0,5	20	10
129+12,166	2592,166	5	300,613	300,713	0,5	12,166	6,083
130	2600	5	300,7	300,8	0,5	7,834	3,917
131	2620	5	300,9221	301,0221	0,5	20	10
131+2,418	2622,418	5	300,9489	301,0489	0,5	2,418	1,209
132	2640	5	301,149	301,249	0,5	17,582	8,791
133	2660	5	301,3767	301,4767	0,5	20	10
134	2680	5	301,6044	301,7044	0,5	20	10
134+14,895	2694,895	5	301,7739	301,8739	0,5	14,895	7,4475
135	2700	5	301,9264	302,0264	0,5	5,105	2,5525
136	2720	5	302,524	302,624	0,5	20	10
136+6,146	2726,146	5	302,7076	302,8076	0,5	6,146	3,073
137	2740	5	303,4923	303,5923	0,5	13,854	6,927
138	2760	5	304,6252	304,7252	0,5	20	10
138+10,125	2770,125	5	305,1987	305,2987	0,5	10,125	5,0625
139	2780	5	304,8833	304,9833	0,5	9,875	4,9375
140	2800	5	304,2446	304,3446	0,5	20	10
140+17,709	2817,709	5	303,6791	303,7791	0,5	17,709	8,8545
141	2820	5	303,6598	303,7598	0,5	2,291	1,1455
142	2840	5	303,4914	303,5914	0,5	20	10
142+16,442	2856,442	5	303,353	303,453	0,5	16,442	8,221
143	2860	5	303,4615	303,5615	0,5	3,558	1,779
144	2880	5	304,0716	304,1716	0,5	20	10
144+3,233	2883,233	5	304,1702	304,2702	0,5	3,233	1,6165
145	2900	5	304,3386	304,4386	0,5	16,767	8,3835
145+19,735	2919,735	5	304,5368	304,6368	0,5	19,735	9,8675
146	2920	5	304,5318	304,6318	0,5	0,265	0,1325
147	2940	5	304,1578	304,2578	0,5	20	10
147+11,067	2951,067	5	303,9508	304,0508	0,5	11,067	5,5335
148	2960	5	303,8848	303,9848	0,5	8,933	4,4665
149	2980	5	303,7369	303,8369	0,5	20	10
149+10,676	2990,676	5	303,6522	303,7522	0,5	10,676	5,338
150	3000	5	303,774	303,874	0,5	9,324	4,662
150+19,433	3019,433	5	304,0278	304,1278	0,5	19,433	9,7165
151	3020	5	304,0513	304,1513	0,5	0,567	0,2835
152	3040	5	304,8877	304,9877	0,5	20	10
152+0,175	3040,175	5	304,895	304,995	0,5	0,175	0,0875
153	3060	5	306,4453	306,5453	0,5	19,825	9,9125
153+16,542	3076,542	5	307,7389	307,8389	0,5	16,542	8,271
154	3080	5	307,8559	307,9559	0,5	3,458	1,729
154+6,820	3086,82	5	308,0865	308,1865	0,5	6,82	3,41
155	3100	5	307,9266	308,0266	0,5	13,18	6,59
155+14,226	3114,226	5	307,754	307,854	0,5	14,226	7,113
156	3120	5	307,833	307,933	0,5	5,774	2,887
157	3140	5	308,079	308,179	0,5	20	10
157+12,234	3152,234	5	308,1514	308,2514	0,5	12,234	6,117
158	3160	5	308,3947	308,4947	0,5	7,766	3,883

158+14,309	3174,309	5	308,8429	308,9429	0,5	14,309	7,1545
159	3180	5	308,8576	308,9576	0,5	5,691	2,8455
160	3200	5	308,9093	309,0093	0,5	20	10
161	3220	5	308,961	309,061	0,5	20	10
161+5,777	3225,777	5	308,9759	309,0759	0,5	5,777	2,8885
162	3240	5	308,9822	309,0822	0,5	14,223	7,1115
162+16,064	3256,064	5	308,9893	309,0893	0,5	16,064	8,032
163	3260	5	308,9795	309,0795	0,5	3,936	1,968
163+18,770	3278,77	5	308,933	309,033	0,5	18,77	9,385
164	3280	5	308,932	309,032	0,5	1,23	0,615
165	3300	5	308,9161	309,0161	0,5	20	10
166	3320	5	308,9001	309,0001	0,5	20	10
166+8,664	3328,664	5	308,8932	308,9932	0,5	8,664	4,332
167	3340	5	308,9378	309,0378	0,5	11,336	5,668
167+12,346	3352,346	5	308,9864	309,0864	0,5	12,346	6,173
168	3360	5	309,2072	309,3072	0,5	7,654	3,827
169	3380	5	309,784	309,884	0,5	20	10
169+3,010	3383,01	5	309,8708	309,9708	0,5	3,01	1,505
170	3400	5	310,2591	310,3591	0,5	16,99	8,495
170+12,959	3412,959	5	310,5552	310,6552	0,5	12,959	6,4795
171	3420	5	311,0856	311,1856	0,5	7,041	3,5205
172	3440	5	312,5921	312,6921	0,5	20	10
172+0,295	3440,295	5	312,6143	312,7143	0,5	0,295	0,1475
173	3460	5	313,2291	313,3291	0,5	19,705	9,8525
174	3480	5	313,8531	313,9531	0,5	20	10
174+12,273	3492,273	5	314,236	314,336	0,5	12,273	6,1365
175	3500	5	314,2138	314,3138	0,5	7,727	3,8635
176	3520	5	314,1562	314,2562	0,5	20	10
176+10,861	3530,861	5	314,1249	314,2249	0,5	10,861	5,4305
177	3540	5	313,9261	314,0261	0,5	9,139	4,5695
178	3560	5	313,491	313,591	0,5	20	10
179	3580	5	313,056	313,156	0,5	20	10
179+3,295	3583,295	5	312,9843	313,0843	0,5	3,295	1,6475
180	3600	5	312,3101	312,4101	0,5	16,705	8,3525
181	3620	5	311,5029	311,6029	0,5	20	10
181+13,769	3633,769	5	310,9471	311,0471	0,5	13,769	6,8845
182	3640	5	310,8393	310,9393	0,5	6,231	3,1155
183	3660	5	310,4932	310,5932	0,5	20	10
184	3680	5	310,1471	310,2471	0,5	20	10
185	3700	5	309,8011	309,9011	0,5	20	10
186	3720	5	309,455	309,555	0,5	20	10
186+2,917	3722,917	5	309,4045	309,5045	0,5	2,917	1,4585
187	3740	5	309,9357	310,0357	0,5	17,083	8,5415
187+6,057	3746,057	5	310,124	310,224	0,5	6,057	3,0285
188	3760	5	310,5219	310,6219	0,5	13,943	6,9715
189	3780	5	311,0927	311,1927	0,5	20	10
189+4,224	3784,224	5	311,2132	311,3132	0,5	4,224	2,112
189+17,682	3797,682	5	310,8927	310,9927	0,5	13,458	6,729
190	3800	5	310,904	311,004	0,5	2,318	1,159

191	3820	5	311,0012	311,1012	0,5	20	10
191+9,263	3829,263	5	311,0463	311,1463	0,5	9,263	4,6315
192	3840	5	311,4955	311,5955	0,5	10,737	5,3685
192+7,232	3847,232	5	311,7981	311,8981	0,5	7,232	3,616
193	3860	5	312,3398	312,4398	0,5	12,768	6,384
194	3880	5	313,1883	313,2883	0,5	20	10
194+10,854	3890,854	5	313,6488	313,7488	0,5	10,854	5,427
195	3900	5	314,1933	314,2933	0,5	9,146	4,573
196	3920	5	315,3841	315,4841	0,5	20	10
196+4,375	3924,375	5	315,6446	315,7446	0,5	4,375	2,1875
197	3940	5	316,5503	316,6503	0,5	15,625	7,8125
198	3960	5	317,7097	317,8097	0,5	20	10
198+7,433	3967,433	5	318,1405	318,2405	0,5	7,433	3,7165
199	3980	5	318,4471	318,5471	0,5	12,567	6,2835
199+12,949	3992,949	5	318,7631	318,8631	0,5	12,949	6,4745
200	4000	5	318,2259	318,3259	0,5	7,051	3,5255
200+12,891	4012,891	5	317,2438	317,3438	0,5	12,891	6,4455
201	4020	5	316,5231	316,6231	0,5	7,109	3,5545
202	4040	5	314,4956	314,5956	0,5	20	10
203	4060	5	312,4681	312,5681	0,5	20	10
203+8,414	4068,414	5	311,6151	311,7151	0,5	8,414	4,207
204	4080	5	311,2249	311,3249	0,5	11,586	5,793
205	4100	5	310,5513	310,6513	0,5	20	10
206	4120	5	309,8778	309,9778	0,5	20	10
207	4140	5	309,2042	309,3042	0,5	20	10
208	4160	5	308,5306	308,6306	0,5	20	10
208+2,148	4162,148	5	308,4583	308,5583	0,5	2,148	1,074
209	4180	5	308,8137	308,9137	0,5	17,852	8,926
210	4200	5	309,2119	309,3119	0,5	20	10
210+2,571	4202,571	5	309,2631	309,3631	0,5	2,571	1,2855
211	4220	5	310,2698	310,3698	0,5	17,429	8,7145
212	4240	5	311,425	311,525	0,5	20	10
212+15,548	4255,548	5	312,323	312,423	0,5	15,548	7,774
213	4260	5	312,6077	312,7077	0,5	4,452	2,226
214	4280	5	313,8867	313,9867	0,5	20	10
214+2,686	4282,686	5	314,0584	314,1584	0,5	2,686	1,343
215	4300	5	315,204	315,304	0,5	17,314	8,657
215+12,862	4312,862	5	316,055	316,155	0,5	12,862	6,431
216	4320	5	316,382	316,482	0,5	7,138	3,569
216+16,529	4336,529	5	317,1392	317,2392	0,5	16,529	8,2645
217	4340	5	317,2882	317,3882	0,5	3,471	1,7355
218	4360	5	318,1465	318,2465	0,5	20	10
218+9,149	4369,149	5	318,5392	318,6392	0,5	9,149	4,5745
219	4380	5	318,8806	318,9806	0,5	10,851	5,4255
220	4400	5	319,5097	319,6097	0,5	20	10
220+0,225	4400,225	5	319,5168	319,6168	0,5	0,225	0,1125
TOTAL	4400,225					4400,225	2200,1125

Richardson Jorge Dantas
 RICHARDSON JORGE DANTAS
 ENGENHEIRO CIVIL
 CREA 53913

INICIO DE TRECHO

COORDENADA UTM
NORTE 9.248.344,8798
LESTE 531.960,7063

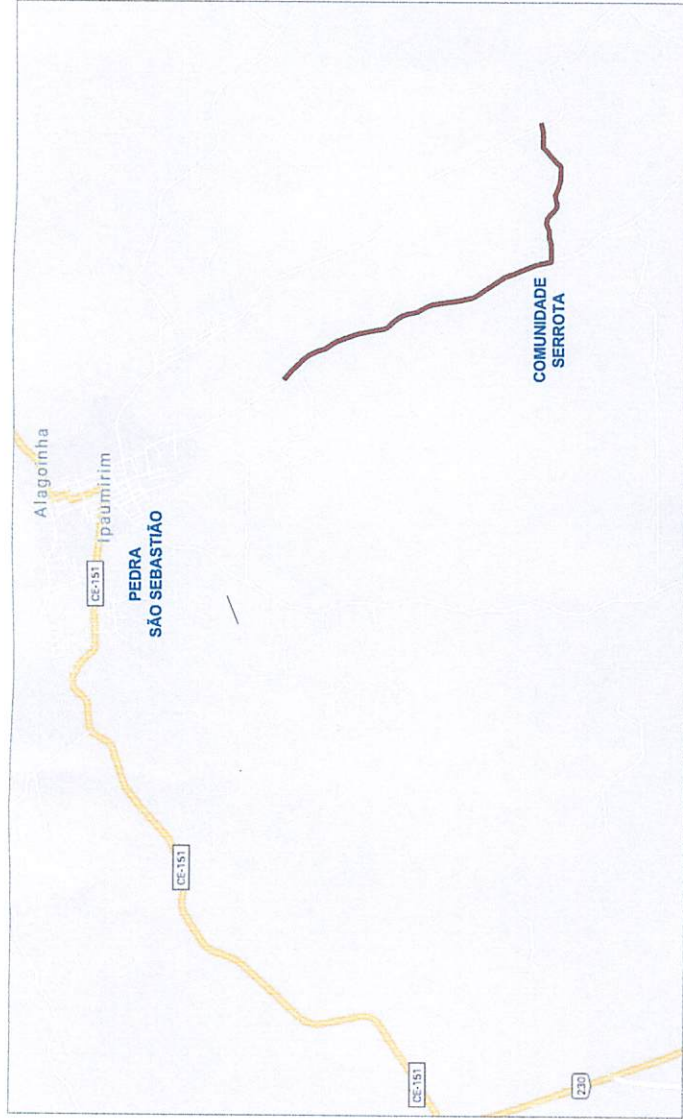


IMAGEM GOOGLE MAPS



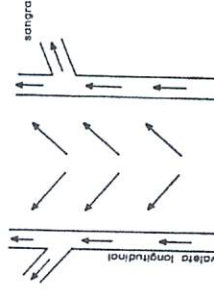
LEGENDA DE CURVAS

- CURVA PRIMÁRIA 
- CURVA MESTRA 
- TRAÇADO 

DETALHE DE PERSPECTIVA DE CORTE



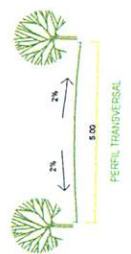
DETALHE DE VALETA E SANGRA



JAZIDA
N-9246372.4505
E-532841.2037

FIM DE TRECHO
COORDENADA UTM
NORTE 9.246.177,4006
LESTE 534.313,6686

DETALHE DE TRANSVERSAL DE CORTE



Richardson Jorge Dantas
Engenheiro Civil
CREA-CE 53913

EMP. RESPONSÁVEL	PROFESSOR
CBRA	EMPENHAMENTO ESTRADAS VICINAIS
ENDEREÇO	COMUNIDADE SERROTA - ZONA RURAL
Quilômetros km	TRECHO
4,500	Distância m
4.400,22	4,500
DATA	PERIODO
MARÇO/2020	01/03

