

Etapa III – Projetos Executivos
PRODUTO 15 (P15) – RELATÓRIO FINAL
ETAPA 01
VOLUME 3 – TOMO IV– ACESSIBILIDADE E PAISAGÍSTICO E
INTERFERÊNCIAS – NOTAS DE SERVIÇO



Contrato nº 389/2020

Elaboração de estudos de concepção para obras de drenagem pluvial e pavimentação sustentáveis, em ruas do perímetro urbano do bairro Vila Nova, incluindo a elaboração dos projetos executivos, memoriais, especificações técnicas de serviços, orçamento e cronograma das obras, cuja metodologia e execução deverão servir de modelo para outras áreas do município de Joinville

Consórcio

TYPSA ■ ENGE CORPS ■ GREENBLUE ■ AZIMUTE





Consórcio
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ETAPA 01

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RESPONSÁVEL TÉCNICO: Maria Bernardete de Sousa Sender | ART nº 7447764-8 | CREA nº 172586-9 – SC

COORDENADOR GERAL: Maria Bernardete de Sousa Sender

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VERIFICAÇÃO: Edson Rocha Nery

APROVAÇÃO: Maria Bernardete de Sousa Sender 
Maria Bernardete Sousa Sender (23 de October de 2021 19:38 ADT)

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ANEXO I: PONTOS DE LOCAÇÃO DOS ELEMENTOS

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA AFONSO LENZI

Ponto	N (m)	E (m)
1	7089724,072	709671,697
2	7089722,805	709673,145
3	7089723,616	709672,139
4	7089722,074	709674,470
5	7089721,533	709676,281
6	7089722,354	709675,997
7	7089722,858	709692,616
8	7089721,863	709692,659
9	7089721,978	709696,531
10	7089722,984	709696,501
11	7089723,284	709706,370
12	7089722,285	709706,422
13	7089722,772	709722,084
14	7089723,760	709722,055
15	7089723,871	709725,731
16	7089722,873	709725,760
17	7089722,988	709729,615
18	7089723,994	709729,592
19	7089724,198	709736,343
20	7089723,199	709736,372
21	7089723,667	709752,160
22	7089724,699	709752,068
23	7089724,851	709757,092
24	7089723,825	709757,116
25	7089723,939	709760,962
26	7089724,939	709760,932
27	7089725,460	709778,110
28	7089724,463	709778,139
29	7089724,562	709781,481
30	7089725,527	709781,518
31	7089725,497	709783,014
32	7089724,611	709783,027
33	7089724,724	709786,800
34	7089725,723	709786,770
35	7089725,904	709792,738
36	7089724,905	709792,780
37	7089725,190	709801,779
38	7089726,165	709801,764
39	7089726,789	709822,343
40	7089725,793	709822,360
41	7089726,081	709831,137
42	7089727,077	709831,052
43	7089727,271	709837,450
44	7089726,254	709837,480
45	7089726,379	709841,055
46	7089727,369	709841,026
47	7089727,505	709845,485
48	7089726,505	709845,522
49	7089726,694	709851,069
50	7089727,674	709851,065
51	7089727,854	709855,434
52	7089726,844	709854,971
53	7089727,302	709856,712
54	7089729,253	709859,621
55	7089734,453	709861,813
56	7089736,253	709861,798
57	7089706,524	709670,986
58	7089710,915	709673,043
59	7089710,100	709672,374
60	7089711,463	709673,610
61	7089712,407	709674,942
62	7089713,105	709676,582
63	7089712,342	709676,459
64	7089713,956	709695,687
65	7089712,957	709695,760
66	7089714,078	709700,146
67	7089713,135	709700,279
68	7089714,315	709707,272
69	7089713,293	709707,251
70	7089714,455	709712,138

Ponto	N (m)	E (m)
71	7089713,441	709712,168
72	7089714,841	709724,491
73	7089713,832	709724,542
74	7089714,949	709728,256
75	7089713,926	709728,287
76	7089715,297	709739,908
77	7089714,279	709739,924
78	7089715,404	709743,412
79	7089714,350	709743,396
80	7089715,652	709751,593
81	7089714,616	709751,624
82	7089716,125	709767,198
83	7089715,124	709767,267
84	7089716,400	709776,041
85	7089715,392	709776,111
86	7089716,513	709779,971
87	7089715,536	709780,000
88	7089716,613	709783,268
89	7089715,636	709783,298
90	7089716,740	709787,470
91	7089715,735	709787,508
92	7089717,335	709807,060
93	7089716,329	709807,084
94	7089717,460	709811,180
95	7089716,499	709811,209
96	7089717,528	709813,420
97	7089716,567	709813,453
98	7089717,659	709817,744
99	7089716,649	709817,775
100	7089717,922	709826,425
101	7089716,912	709826,447
102	7089718,042	709830,365
103	7089717,013	709830,396
104	7089718,121	709832,993
105	7089717,094	709833,042
106	7089718,195	709836,637
107	7089717,217	709836,666
108	7089718,429	709842,899
109	7089717,407	709842,930
110	7089718,521	709847,371
111	7089717,584	709847,443
112	7089718,799	709855,325
113	7089717,852	709855,891
114	7089718,566	709857,110
115	7089716,616	709860,706
116	7089712,188	709863,099
117	7089710,427	709863,236
118	7089710,186	709873,248
119	7089712,594	709873,381
120	7089716,448	709875,428
121	7089718,559	709878,534
122	7089719,029	709881,222
123	7089718,035	709881,322
124	7089718,427	709894,703
125	7089719,430	709894,719
126	7089719,563	709899,222
127	7089718,543	709899,207
128	7089719,165	709919,514
129	7089720,169	709919,485
130	7089720,278	709923,438
131	7089719,282	709923,468
132	7089719,368	709926,362
133	7089720,368	709926,332
134	7089720,465	709929,748
135	7089719,469	709929,778
136	7089719,810	709939,508
137	7089720,757	709939,445
138	7089720,858	709942,989
139	7089719,857	709943,031
140	7089720,253	709956,189

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ALBERTO MIERS

Ponto	N (m)	E (m)
1	7090039,794	708318,073
2	7090040,043	708325,382
3	7090040,292	708332,691
4	7090040,541	708340,000
5	7090040,790	708347,309
6	7090041,039	708354,618
7	7090041,288	708361,927
8	7090041,537	708369,236
9	7090041,786	708376,545
10	7090042,035	708383,854
11	7090042,284	708391,163
12	7090042,533	708398,472
13	7090042,782	708405,781
14	7090043,031	708413,090
15	7090043,280	708420,399
16	7090043,529	708427,708
17	7090043,778	708435,017
18	7090044,027	708442,326
19	7090044,276	708449,635
20	7090044,525	708456,944
21	7090044,774	708464,253
22	7090045,023	708471,562
23	7090045,272	708478,871
24	7090045,521	708486,180
25	7090045,770	708493,489
26	7090046,019	708500,798
27	7090046,268	708508,107
28	7090046,517	708515,416
29	7090046,766	708522,725
30	7090047,015	708530,034
31	7090047,264	708537,343
32	7090047,513	708544,652
33	7090047,762	708551,961
34	7090048,011	708559,270
35	7090048,260	708566,579
36	7090048,509	708573,888
37	7090048,758	708581,197
38	7090049,007	708588,506
39	7090049,256	708595,815
40	7090049,505	708603,124
41	7090049,754	708610,433
42	7090050,003	708617,742
43	7090050,252	708625,051
44	7090050,501	708632,360
45	7090050,750	708639,669
46	7090050,999	708646,978
47	7090051,248	708654,287
48	7090051,497	708661,596
49	7090051,746	708668,905
50	7090051,995	708676,214
51	7090052,244	708683,523
52	7090052,493	708690,832
53	7090052,742	708698,141
54	7090052,991	708705,450
55	7090053,240	708712,759
56	7090053,489	708720,068
57	7090053,738	708727,377
58	7090053,987	708734,686
59	7090054,236	708741,995
60	7090054,485	708749,304
61	7090054,734	708756,613
62	7090054,983	708763,922
63	7090055,232	708771,231
64	7090055,481	708778,540
65	7090055,730	708785,849
66	7090055,979	708793,158
67	7090056,228	708800,467
68	7090056,477	708807,776
69	7090056,726	708815,085
70	7090056,975	708822,394

Ponto	N (m)	E (m)
71	7090057,224	708829,703
72	7090057,473	708837,012
73	7090057,722	708844,321
74	7090057,971	708851,630
75	7090058,220	708858,939
76	7090058,469	708866,248
77	7090058,718	708873,557
78	7090058,967	708880,866
79	7090059,216	708888,175
80	7090059,465	708895,484
81	7090059,714	708902,793
82	7090059,963	708910,102
83	7090060,212	708917,411
84	7090060,461	708924,720
85	7090060,710	708932,029
86	7090060,959	708939,338
87	7090061,208	708946,647
88	7090061,457	708953,956
89	7090061,706	708961,265
90	7090061,955	708968,574
91	7090062,204	708975,883
92	7090062,453	708983,192
93	7090062,702	708990,501
94	7090062,951	708997,810
95	7090063,200	709005,119
96	7090063,449	709012,428
97	7090063,698	709019,737
98	7090063,947	709027,046
99	7090064,196	709034,355
100	7090064,445	709041,664
101	7090064,694	709048,973
102	7090064,943	709056,282
103	7090065,192	709063,591
104	7090065,441	709070,900
105	7090065,690	709078,209
106	7090065,939	709085,518
107	7090066,188	709092,827
108	7090066,437	709100,136
109	7090066,686	709107,445
110	7090066,935	709114,754
111	7090067,184	709122,063
112	7090067,433	709129,372
113	7090067,682	709136,681
114	7090067,931	709143,990
115	7090068,180	709151,299
116	7090068,429	709158,608
117	7090068,678	709165,917
118	7090068,927	709173,226
119	7090069,176	709180,535
120	7090069,425	709187,844
121	7090069,674	709195,153
122	7090069,923	709202,462
123	7090070,172	709209,771
124	7090070,421	709217,080
125	7090070,670	709224,389
126	7090070,919	709231,698
127	7090071,168	709239,007
128	7090071,417	709246,316
129	7090071,666	709253,625
130	7090071,915	709260,934
131	7090072,164	709268,243
132	7090072,413	709275,552
133	7090072,662	709282,861
134	7090072,911	709290,170
135	7090073,160	709297,479
136	7090073,409	709304,788
137	7090073,658	709312,097
138	7090073,907	709319,406
139	7090074,156	709326,715
140	7090074,405	709334,024

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ALBERTO MIERS

Ponto	N (m)	E (m)
141	7.090.074,654	709.341,333
142	7.090.074,903	709.348,642
143	7.090.075,152	709.355,951
144	7.090.075,401	709.363,260
145	7.090.075,650	709.370,569
146	7.090.075,899	709.377,878
147	7.090.076,148	709.385,187
148	7.090.076,397	709.392,496
149	7.090.076,646	709.399,805
150	7.090.076,895	709.407,114
151	7.090.077,144	709.414,423
152	7.090.077,393	709.421,732
153	7.090.077,642	709.429,041
154	7.090.077,891	709.436,350
155	7.090.078,140	709.443,659
156	7.090.078,389	709.450,968
157	7.090.078,638	709.458,277
158	7.090.078,887	709.465,586
159	7.090.079,136	709.472,895
160	7.090.079,385	709.480,204
161	7.090.079,634	709.487,513
162	7.090.079,883	709.494,822
163	7.090.080,132	709.502,131
164	7.090.080,381	709.509,440
165	7.090.080,630	709.516,749
166	7.090.080,879	709.524,058
167	7.090.081,128	709.531,367
168	7.090.081,377	709.538,676
169	7.090.081,626	709.545,985
170	7.090.081,875	709.553,294
171	7.090.082,124	709.560,603
172	7.090.082,373	709.567,912
173	7.090.082,622	709.575,221
174	7.090.082,871	709.582,530
175	7.090.083,120	709.589,839
176	7.090.083,369	709.597,148
177	7.090.083,618	709.604,457
178	7.090.083,867	709.611,766
179	7.090.084,116	709.619,075
180	7.090.084,365	709.626,384
181	7.090.084,614	709.633,693
182	7.090.084,863	709.641,002
183	7.090.085,112	709.648,311
184	7.090.085,361	709.655,620
185	7.090.085,610	709.662,929
186	7.090.085,859	709.670,238
187	7.090.086,108	709.677,547
188	7.090.086,357	709.684,856
189	7.090.086,606	709.692,165
190	7.090.086,855	709.699,474
191	7.090.087,104	709.706,783
192	7.090.087,353	709.714,092
193	7.090.087,602	709.721,401
194	7.090.087,851	709.728,710
195	7.090.088,100	709.736,019
196	7.090.088,349	709.743,328
197	7.090.088,598	709.750,637
198	7.090.088,847	709.757,946
199	7.090.089,096	709.765,255
200	7.090.089,345	709.772,564
201	7.090.089,594	709.779,873
202	7.090.089,843	709.787,182
203	7.090.090,092	709.794,491
204	7.090.090,341	709.801,800
205	7.090.090,590	709.809,109
206	7.090.090,839	709.816,418
207	7.090.091,088	709.823,727
208	7.090.091,337	709.831,036
209	7.090.091,586	709.838,345
210	7.090.091,835	709.845,654

Ponto	N (m)	E (m)
211	7090092,084	709852,963
212	7090092,333	709860,272
213	7090092,582	709867,581
214	7090092,831	709874,890
215	7090093,080	709882,199
216	7090093,329	709889,508
217	7090093,578	709896,817
218	7090093,827	709904,126
219	7090094,076	709911,435
220	7090094,325	709918,744
221	7090094,574	709926,053
222	7090094,823	709933,362
223	7090095,072	709940,671
224	7090095,321	709947,980
225	7090095,570	709955,289
226	7090095,819	709962,598
227	7090096,068	709969,907
228	7090096,317	709977,216
229	7090096,566	709984,525
230	7090096,815	709991,834
231	7090097,064	709999,143
232	7090097,313	710006,452
233	7090097,562	710013,761
234	7090097,811	710021,070
235	7090098,060	710028,379
236	7090098,309	710035,688
237	7090098,558	710042,997
238	7090098,807	710050,306
239	7090099,056	710057,615
240	7090099,305	710064,924
241	7090099,554	710072,233
242	7090099,803	710079,542
243	7090100,052	710086,851
244	7090100,301	710094,160
245	7090100,550	710101,469
246	7090100,799	710108,778
247	7090101,048	710116,087
248	7090101,297	710123,396
249	7090101,546	710130,705
250	7090101,795	710138,014
251	7090102,044	710145,323
252	7090102,293	710152,632
253	7090102,542	710159,941
254	7090102,791	710167,250
255	7090103,040	710174,559
256	7090103,289	710181,868
257	7090103,538	710189,177
258	7090103,787	710196,486
259	7090104,036	710203,795
260	7090104,285	710211,104
261	7090104,534	710218,413
262	7090104,783	710225,722
263	7090105,032	710233,031
264	7090105,281	710240,340
265	7090105,530	710247,649
266	7090105,779	710254,958
267	7090106,028	710262,267
268	7090106,277	710269,576
269	7090106,526	710276,885
270	7090106,775	710284,194
271	7090107,024	710291,503
272	7090107,273	710298,812
273	7090107,522	710306,121
274	7090107,771	710313,430
275	7090108,020	710320,739
276	7090108,269	710328,048
277	7090108,518	710335,357
278	7090108,767	710342,666
279	7090109,016	710349,975
280	7090109,265	710357,284

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ALEXANDRE KRICHELDORT (TRECHO2)

Ponto	N (m)	E (m)
1	7090109,633	709657,468
2	7090107,897	709657,945
3	7090104,422	709659,972
4	7090102,440	709663,752
5	7090102,259	709665,539
6	7090103,056	709665,512
7	7090103,610	709681,486
8	7090102,810	709681,492
9	7090102,953	709685,762
10	7090103,758	709685,763
11	7090104,328	709702,305
12	7090103,532	709702,332
13	7090104,443	709706,567
14	7090103,679	709706,583
15	7090104,607	709710,247
16	7090103,807	709710,265
17	7090104,754	709714,507
18	7090103,955	709714,535
19	7090105,232	709728,277
20	7090104,432	709728,305
21	7090105,354	709731,796
22	7090104,554	709731,819
23	7090105,605	709739,039
24	7090104,805	709739,068
25	7090105,748	709743,162
26	7090104,943	709743,189
27	7090106,125	709754,044
28	7090105,325	709754,072
29	7090106,284	709758,633
30	7090105,484	709758,652
31	7090106,666	709769,815
32	7090105,872	709769,842
33	7090106,803	709773,946
34	7090106,015	709773,966
35	7090107,197	709784,975
36	7090106,397	709785,003
37	7090107,340	709789,109
38	7090106,541	709789,137
39	7090107,714	709799,910
40	7090106,974	709800,000
41	7090107,866	709804,284
42	7090107,066	709804,304
43	7090108,811	709831,547
44	7090108,011	709831,569
45	7090108,954	709835,677
46	7090108,154	709835,698
47	7090109,160	709841,601
48	7090108,373	709841,638
49	7090108,779	709843,836
50	7090117,004	709849,243
51	7090114,877	709849,121
52	7090110,876	709847,090
53	7090083,984	709658,454
54	7090083,923	709659,257
55	7090087,622	709660,072
56	7090087,994	709659,364
57	7090090,395	709661,294
58	7090089,729	709660,593
59	7090091,756	709663,607
60	7090092,280	709666,384
61	7090091,480	709666,412
62	7090093,565	709703,347
63	7090092,757	709703,377
64	7090093,699	709707,326
65	7090092,900	709707,375
66	7090093,356	709720,524
67	7090094,156	709720,497
68	7090094,459	709729,373
69	7090093,664	709729,400
70	7090093,775	709732,620

Ponto	N (m)	E (m)
71	7090094,574	709732,570
72	7090094,730	709737,066
73	7090093,930	709737,094
74	7090094,061	709742,470
75	7090094,916	709742,449
76	7090095,054	709746,432
77	7090094,255	709746,460
78	7090094,560	709755,261
79	7090095,360	709755,234
80	7090095,494	709759,217
81	7090094,680	709759,247
82	7090095,132	709771,525
83	7090095,923	709771,498
84	7090096,146	709776,867
85	7090095,330	709776,897
86	7090095,625	709784,008
87	7090096,356	709783,977
88	7090096,267	709804,056
89	7090097,050	709804,020
90	7090096,981	709825,098
91	7090097,780	709825,070
92	7090098,081	709833,748
93	7090097,281	709833,775
94	7090097,533	709841,433
95	7090098,347	709841,428
96	7090098,222	709844,138
97	7090096,239	709848,019
98	7090092,797	709850,196
99	7090089,948	709850,588
100	7090090,457	709860,577
101	7090092,755	709860,691
102	7090098,868	709866,017
103	7090099,258	709867,940
104	7090096,766	709862,730
105	7090098,460	709868,001
106	7090098,689	709876,491
107	7090099,498	709876,469
108	7090099,607	709880,537
109	7090098,808	709880,559
110	7090099,158	709889,953
111	7090099,859	709889,884
112	7090100,000	709894,331
113	7090099,180	709894,353
114	7090099,280	709898,094
115	7090100,080	709898,077
116	7090100,190	709902,156
117	7090099,391	709902,177
118	7090099,655	709911,973
119	7090100,454	709911,951
120	7090100,570	709916,257
121	7090099,771	709916,279
122	7090100,033	709926,020
123	7090100,833	709925,999
124	7090100,912	709930,158
125	7090100,150	709930,337
126	7090102,853	710003,085
127	7090103,654	710003,106
128	7090116,926	709859,254
129	7090115,485	709859,290
130	7090115,125	709859,300
131	7090110,544	709860,892
132	7090109,208	709865,598
133	7090109,257	709867,397
134	7090110,056	709867,365
135	7090110,186	709872,161
136	7090109,386	709872,203
137	7090109,506	709876,635
138	7090110,306	709876,613
139	7090110,614	709888,071
140	7090109,803	709888,093

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ANTONIO BISCHOF

Ponto	N (m)	E (m)
1	7089711,934	709086,619
2	7089710,734	709086,659
3	7089707,239	709088,248
4	7089705,901	709091,846
5	7089706,019	709094,952
6	7089706,819	709094,922
7	7089707,602	709115,522
8	7089706,803	709115,553
9	7089707,084	709122,939
10	7089707,883	709122,909
11	7089707,943	709124,469
12	7089707,143	709124,499
13	7089707,397	709131,158
14	7089708,196	709131,128
15	7089708,253	709132,621
16	7089707,552	709132,758
17	7089707,742	709139,330
18	7089708,507	709139,300
19	7089708,694	709144,208
20	7089707,894	709144,239
21	7089708,238	709146,901
22	7089710,132	709149,923
23	7089713,881	709151,740
24	7089716,498	709151,780
25	7089693,862	709088,482
26	7089694,324	709088,863
27	7089695,285	709090,090
28	7089695,924	709092,643
29	7089695,981	709094,142
30	7089695,182	709094,172
31	7089695,782	709109,940
32	7089696,585	709109,910
33	7089696,743	709114,158
34	7089695,943	709114,188
35	7089696,148	709119,579
36	7089696,951	709119,631
37	7089697,488	709133,758
38	7089697,534	709134,765
39	7089697,789	709141,691
40	7089696,991	709141,722
41	7089697,093	709144,613
42	7089697,893	709144,620
43	7089697,502	709147,024
44	7089695,761	709149,992
45	7089691,832	709152,315
46	7089689,514	709152,574
47	7089689,933	709160,837
48	7089692,108	709160,760
49	7089694,762	709160,705
50	7089698,268	709165,636
51	7089698,322	709167,733
52	7089697,522	709167,754
53	7089697,621	709171,638
54	7089698,421	709171,618
55	7089698,642	709180,730
56	7089697,842	709180,749
57	7089698,342	709198,234
58	7089699,087	709198,217
59	7089699,341	709207,389
60	7089698,541	709207,412
61	7089698,973	709222,529
62	7089699,773	709222,530
63	7089699,888	709226,628
64	7089699,092	709226,652
65	7089699,486	709239,564
66	7089700,286	709239,571
67	7089700,411	709243,661
68	7089699,611	709243,686
69	7089699,876	709252,368
70	7089700,676	709252,343

Ponto	N (m)	E (m)
71	7089700,797	709256,465
72	7089700,000	709256,465
73	7089700,175	709262,195
74	7089700,976	709262,203
75	7089701,101	709266,297
76	7089700,301	709266,322
77	7089700,777	709282,764
78	7089701,588	709282,742
79	7089701,708	709287,590
80	7089700,908	709287,612
81	7089701,104	709294,875
82	7089701,932	709294,853
83	7089702,116	709302,772
84	7089701,318	709302,794
85	7089701,396	709305,682
86	7089702,209	709305,663
87	7089702,317	709309,653
88	7089701,503	709309,675
89	7089701,581	709312,559
90	7089702,396	709312,540
91	7089702,489	709316,530
92	7089701,689	709316,551
93	7089702,097	709330,986
94	7089702,894	709330,989
95	7089703,012	709335,170
96	7089702,212	709335,192
97	7089702,279	709337,558
98	7089703,080	709337,572
99	7089703,244	709343,392
100	7089702,445	709343,436
101	7089702,527	709346,985
102	7089703,341	709346,966
103	7089716,611	709159,892
104	7089714,241	709159,978
105	7089713,147	709160,066
106	7089708,789	709163,800
107	7089708,282	709165,242
108	7089708,345	709167,945
109	7089709,145	709167,926
110	7089709,253	709172,601
111	7089708,450	709172,619
112	7089709,086	709196,918
113	7089709,901	709196,897
114	7089710,251	709210,269
115	7089709,487	709210,290
116	7089709,588	709214,021
117	7089710,394	709213,992
118	7089710,610	709222,265
119	7089709,833	709222,285
120	7089710,050	709229,814
121	7089710,850	709229,794
122	7089711,311	709245,806
123	7089710,512	709245,827
124	7089710,625	709250,165
125	7089711,436	709250,144
126	7089712,010	709270,023
127	7089711,210	709270,046
128	7089711,435	709278,393
129	7089712,250	709278,367
130	7089712,361	709282,200
131	7089711,562	709282,221
132	7089711,688	709286,611
133	7089712,487	709286,588
134	7089712,697	709293,857
135	7089711,897	709293,880
136	7089712,128	709301,889
137	7089712,929	709301,887
138	7089713,139	709309,927
139	7089712,361	709309,948
140	7089712,476	709314,328

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ARLINDO CORREA

Ponto	N (m)	E (m)
1	7090284,079	708404,675
2	7090284,096	708405,375
3	7090267,866	708405,738
4	7090267,849	708405,041
5	7090263,086	708405,164
6	7090262,683	708405,168
7	7090258,951	708405,269
8	7090258,963	708405,914
9	7090245,115	708406,270
10	7090245,090	708405,624
11	7090240,663	708405,738
12	7090240,197	708405,749
13	7090235,541	708405,869
14	7090235,563	708406,591
15	7090218,390	708407,107
16	7090218,343	708406,307
17	7090216,047	708406,630
18	7090210,397	708412,919
19	7090210,281	708414,715
20	7090283,866	708396,599
21	7090283,845	708395,882
22	7090273,971	708396,164
23	7090273,994	708397,000
24	7090270,483	708397,082
25	7090270,459	708396,201
26	7090265,362	708396,398
27	7090265,384	708397,202
28	7090257,988	708397,376
29	7090257,950	708396,610
30	7090249,859	708396,895
31	7090249,882	708397,566
32	7090245,922	708397,659
33	7090245,901	708397,034
34	7090239,599	708397,256
35	7090239,618	708397,807
36	7090235,644	708397,901
37	7090235,621	708397,363
38	7090218,064	708397,703
39	7090218,085	708398,313
40	7090215,714	708398,138
41	7090210,753	708394,719
42	7090209,792	708392,259
43	7090200,289	708415,226
44	7090200,283	708414,919
45	7090200,071	708413,246
46	7090197,588	708409,093
47	7090193,983	708407,264
48	7090191,597	708407,098
49	7090191,615	708407,698
50	7090177,524	708408,110
51	7090177,507	708407,510
52	7090172,846	708407,647
53	7090172,863	708408,247
54	7090145,280	708409,054
55	7090145,263	708408,454
56	7090138,033	708408,665
57	7090138,051	708409,266
58	7090134,775	708409,362
59	7090134,757	708408,762
60	7090131,086	708408,869
61	7090131,103	708409,469
62	7090124,662	708409,658
63	7090124,644	708409,058
64	7090120,800	708409,170
65	7090120,817	708409,770
66	7090112,015	708410,028
67	7090111,998	708409,428
68	7090107,813	708409,550
69	7090107,831	708410,151
70	7090101,879	708410,325

Ponto	N (m)	E (m)
71	7090101,861	708409,725
72	7090097,564	708409,851
73	7090097,582	708410,451
74	7090091,551	708410,627
75	7090091,532	708410,028
76	7090087,773	708410,137
77	7090087,782	708410,738
78	7090074,972	708411,113
79	7090074,956	708410,512
80	7090070,901	708410,631
81	7090070,919	708411,231
82	7090061,362	708411,511
83	7090061,344	708410,911
84	7090059,083	708411,158
85	7090055,281	708413,288
86	7090053,371	708416,387
87	7090052,960	708419,143
88	7090199,446	708390,835
89	7090199,447	708391,327
90	7090199,137	708393,312
91	7090197,493	708396,338
92	7090193,792	708398,745
93	7090191,389	708399,101
94	7090192,212	708399,077
95	7090191,365	708398,301
96	7090180,844	708398,609
97	7090180,867	708399,409
98	7090176,823	708399,527
99	7090176,799	708398,728
100	7090170,350	708398,916
101	7090170,373	708399,717
102	7090166,421	708399,832
103	7090166,419	708399,031
104	7090161,240	708399,183
105	7090161,285	708400,000
106	7090157,404	708400,096
107	7090157,379	708399,296
108	7090151,449	708399,470
109	7090151,473	708400,270
110	7090146,530	708400,414
111	7090146,506	708399,614
112	7090141,422	708399,763
113	7090141,445	708400,563
114	7090137,356	708400,684
115	7090137,332	708399,883
116	7090130,913	708400,071
117	7090130,936	708400,872
118	7090127,654	708400,967
119	7090127,645	708400,054
120	7090105,470	708400,816
121	7090105,492	708401,615
122	7090100,559	708401,761
123	7090100,536	708400,960
124	7090085,557	708401,399
125	7090085,579	708402,198
126	7090081,590	708402,316
127	7090081,545	708401,553
128	7090075,815	708401,684
129	7090075,838	708402,485
130	7090071,758	708402,604
131	7090071,735	708401,803
132	7090060,707	708402,126
133	7090060,051	708402,116
134	7090060,002	708402,914
135	7090057,695	708402,374
136	7090055,019	708400,761
137	7090052,935	708397,543
138	7090052,500	708395,197
139	7090042,962	708419,371
140	7090042,395	708416,632

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA ARLINDO CORREA

Ponto	N (m)	E (m)
141	7090036,519	708411,752
142	7090034,207	708411,618
143	7090034,220	708412,068
144	7090000,376	708413,065
145	7090000,363	708412,614
146	7089993,700	708412,811
147	7089993,714	708413,261
148	7089985,057	708413,516
149	7089984,992	708413,111
150	7089977,650	708413,283
151	7089977,663	708413,733
152	7089969,194	708413,983
153	7089969,181	708413,533
154	7089965,084	708413,637
155	7089965,098	708414,103
156	7089960,007	708414,253
157	7089959,994	708413,803
158	7089955,956	708413,922
159	7089955,969	708414,372
160	7089941,765	708414,790
161	7089941,751	708414,340
162	7089934,585	708414,551
163	7089934,599	708414,960
164	7089927,380	708415,214
165	7089927,331	708414,765
166	7089923,542	708414,839
167	7089923,576	708415,326
168	7089904,866	708415,877
169	7089903,275	708416,084
170	7089901,758	708416,605
171	7089901,895	708416,087
172	7089900,124	708417,148
173	7089898,484	708418,905
174	7089897,416	708421,148
175	7089897,101	708422,920
176	7090042,499	708395,335
177	7090042,146	708397,968
178	7090040,429	708400,978
179	7090036,291	708403,401
180	7090034,115	708403,618
181	7090034,092	708402,848
182	7090017,627	708403,333
183	7090017,649	708404,053
184	7090013,426	708404,227
185	7090013,403	708403,457
186	7090007,234	708403,639
187	7090007,256	708404,409
188	7090002,518	708404,548
189	7090002,494	708403,778
190	7089996,135	708403,965
191	7089996,158	708404,736
192	7089992,512	708404,843
193	7089992,490	708404,073
194	7089984,829	708404,245
195	7089984,881	708405,067
196	7089980,665	708405,191
197	7089980,638	708404,311
198	7089974,595	708404,600
199	7089974,519	708405,373
200	7089966,840	708405,599
201	7089966,816	708404,829
202	7089959,506	708405,044
203	7089959,529	708405,814
204	7089955,707	708405,926
205	7089955,686	708405,203
206	7089941,450	708405,576
207	7089941,473	708406,345
208	7089937,072	708406,475
209	7089937,050	708405,705
210	7089930,587	708405,895

Ponto	N (m)	E (m)
211	7089930,610	708406,666
212	7089926,910	708406,774
213	7089926,780	708406,778
214	7089922,677	708406,899
215	7089922,655	708406,129
216	7089916,156	708406,320
217	7089916,179	708407,090
218	7089912,046	708407,212
219	7089912,023	708406,441
220	7089904,193	708406,672
221	7089903,227	708406,642
222	7089902,244	708406,449
223	7089902,114	708407,225
224	7089900,422	708406,611
225	7089896,434	708402,104
226	7089896,031	708400,350
227	7089895,946	708399,706
228	7089887,792	708399,631
229	7089887,748	708400,885
230	7089887,345	708402,640
231	7089885,651	708405,437
232	7089882,482	708407,518
233	7089880,732	708407,927
234	7089881,026	708407,387
235	7089863,182	708407,917
236	7089863,196	708408,417
237	7089859,344	708408,518
238	7089859,332	708408,017
239	7089854,312	708408,148
240	7089854,325	708408,649
241	7089849,542	708408,773
242	7089849,527	708408,236
243	7089844,183	708408,412
244	7089844,196	708408,912
245	7089839,123	708409,045
246	7089839,112	708408,544
247	7089818,037	708409,094
248	7089818,050	708409,594
249	7089814,155	708409,696
250	7089814,142	708409,195
251	7089802,173	708409,507
252	7089802,187	708410,038
253	7089792,936	708410,248
254	7089792,934	708409,748
255	7089680,235	708412,704
256	7089680,248	708413,204
257	7089888,968	708423,585
258	7089886,424	708418,100
259	7089882,094	708416,037
260	7089882,432	708416,692
261	7089868,713	708416,275
262	7089863,674	708416,406
263	7089863,690	708417,007
264	7089856,863	708417,185
265	7089856,847	708416,585
266	7089850,874	708416,741
267	7089850,889	708417,340
268	7089848,498	708417,403
269	7089848,482	708416,802
270	7089845,433	708416,882
271	7089842,246	708416,965
272	7089835,156	708417,150
273	7089835,172	708417,750
274	7089829,246	708417,904
275	7089829,230	708417,305
276	7089815,134	708417,670
277	7089815,150	708418,272
278	7089802,553	708418,600
279	7089802,538	708418,000
280	7089798,567	708418,104

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA AUGUSTO ECCEL

Ponto	N (m)	E (m)
1	7.090.186,998	709.655,533
2	7.090.184,479	709.655,944
3	7.090.178,973	709.661,412
4	7.090.178,695	709.664,245
5	7.090.179,495	709.664,217
6	7.090.180,268	709.686,492
7	7.090.179,469	709.686,518
8	7.090.179,640	709.691,633
9	7.090.180,440	709.691,606
10	7.090.180,810	709.702,669
11	7.090.180,011	709.702,696
12	7.090.180,165	709.707,300
13	7.090.180,965	709.707,273
14	7.090.181,320	709.717,882
15	7.090.180,521	709.717,909
16	7.090.180,789	709.725,897
17	7.090.181,588	709.725,871
18	7.090.181,993	709.737,478
19	7.090.181,195	709.737,543
20	7.090.181,335	709.741,525
21	7.090.182,134	709.741,496
22	7.090.182,997	709.766,054
23	7.090.182,199	709.766,083
24	7.090.182,199	709.771,385
25	7.090.183,183	709.771,357
26	7.090.183,594	709.783,038
27	7.090.182,794	709.783,066
28	7.090.183,074	709.791,045
29	7.090.183,090	709.791,482
30	7.090.183,333	709.796,123
31	7.090.184,050	709.796,157
32	7.090.184,111	709.798,092
33	7.090.183,312	709.798,118
34	7.090.183,542	709.805,368
35	7.090.184,342	709.805,343
36	7.090.184,963	709.822,176
37	7.090.184,080	709.822,261
38	7.090.184,214	709.826,474
39	7.090.185,097	709.826,389
40	7.090.185,374	709.837,346
41	7.090.184,575	709.837,374
42	7.090.184,697	709.840,918
43	7.090.184,710	709.841,147
44	7.090.163,965	709.656,499
45	7.090.165,723	709.657,488
46	7.090.167,190	709.658,992
47	7.090.168,538	709.662,165
48	7.090.168,590	709.663,965
49	7.090.168,601	709.664,324
50	7.090.168,981	709.677,712
51	7.090.168,181	709.677,734
52	7.090.168,492	709.687,032
53	7.090.169,292	709.687,003
54	7.090.169,449	709.691,312
55	7.090.168,650	709.691,341
56	7.090.169,100	709.703,636
57	7.090.169,898	709.703,607
58	7.090.170,045	709.707,561
59	7.090.169,245	709.707,588
60	7.090.169,561	709.716,218
61	7.090.170,361	709.716,188
62	7.090.170,499	709.720,013
63	7.090.169,702	709.720,042
64	7.090.170,063	709.729,893
65	7.090.170,862	709.729,864
66	7.090.171,018	709.734,360
67	7.090.170,219	709.734,387
68	7.090.170,374	709.738,969
69	7.090.171,174	709.738,942
70	7.090.171,343	709.743,922

Ponto	N (m)	E (m)
71	7.090.170,543	709.743,949
72	7.090.171,421	709.769,839
73	7.090.172,221	709.769,812
74	7.090.172,327	709.774,240
75	7.090.171,570	709.774,222
76	7.090.171,906	709.784,146
77	7.090.172,706	709.784,119
78	7.090.172,869	709.788,958
79	7.090.172,069	709.788,985
80	7.090.172,394	709.798,673
81	7.090.173,193	709.798,646
82	7.090.173,326	709.802,598
83	7.090.172,526	709.802,625
84	7.090.172,868	709.812,841
85	7.090.173,668	709.812,814
86	7.090.173,839	709.817,985
87	7.090.173,039	709.818,011
88	7.090.173,331	709.826,956
89	7.090.174,131	709.826,930
90	7.090.174,242	709.830,335
91	7.090.173,442	709.830,361
92	7.090.173,496	709.832,006
93	7.090.174,295	709.831,980
94	7.090.174,405	709.835,341
95	7.090.173,598	709.835,368
96	7.090.173,657	709.836,945
97	7.090.173,494	709.839,061
98	7.090.173,360	709.839,787
99	7.090.174,141	709.839,959
100	7.090.173,566	709.841,802
101	7.090.171,761	709.844,775
102	7.090.168,738	709.847,102
103	7.090.166,774	709.847,834
104	7.090.166,069	709.847,879
105	7.090.193,568	709.857,345
106	7.090.191,143	709.857,653
107	7.090.187,457	709.859,883
108	7.090.185,576	709.863,238
109	7.090.185,293	709.865,633
110	7.090.186,092	709.865,607
111	7.090.186,502	709.877,925
112	7.090.185,698	709.877,951
113	7.090.185,820	709.881,603
114	7.090.186,623	709.881,572
115	7.090.186,689	709.883,569
116	7.090.185,890	709.883,595
117	7.090.185,979	709.886,377
118	7.090.186,782	709.886,347
119	7.090.186,889	709.889,597
120	7.090.186,090	709.889,624
121	7.090.186,213	709.893,427
122	7.090.186,235	709.894,004
123	7.090.186,450	709.900,455
124	7.090.186,481	709.901,384
125	7.090.186,689	709.907,640
126	7.090.187,488	709.907,614
127	7.090.187,550	709.909,465
128	7.090.186,750	709.909,492
129	7.090.186,885	709.913,673
130	7.090.187,688	709.913,641
131	7.090.190,711	710.004,604
132	7.090.189,911	710.004,631
133	7.090.190,050	710.008,812
134	7.090.190,850	710.008,785
135	7.090.190,986	710.012,898
136	7.090.190,159	710.012,925
137	7.090.167,062	709.857,815
138	7.090.169,082	709.858,015
139	7.090.172,769	709.859,999
140	7.090.175,008	709.863,709

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA BENTO TORQUATO DA ROCHA

Ponto	N (m)	E (m)
1	7090790,143	709646,696
2	7090787,594	709640,507
3	7090786,135	709639,477
4	7090784,973	709638,521
5	7090783,401	709637,644
6	7090750,415	709636,383
7	7090742,917	709636,64
8	7090740,474	709636,704
9	7090736,615	709636,836
10	7090720,339	709637,415
11	7090714,342	709637,604
12	7090711,374	709637,71
13	7090706,943	709637,871
14	7090704,018	709637,975
15	7090700,42	709638,104
16	7090699,775	709638,126
17	7090686,272	709638,606
18	7090682,4	709638,746
19	7090677,43	709638,925
20	7090672,502	709639,103
21	7090663,068	709639,469
22	7090650,667	709639,885
23	7090647,369	709639,996
24	7090635,262	709640,401
25	7090631,696	709640,52
26	7090622,156	709640,84
27	7090613,486	709641,13
28	7090609,318	709641,289
29	7090605,843	709641,421
30	7090601,334	709641,589
31	7090590,023	709642,018
32	7090585,426	709642,195
33	7090563,247	709642,851
34	7090547,203	709643,416
35	7090532,48	709643,91
36	7090517,836	709644,326
37	7090505,229	709644,684
38	7090487,797	709645,182
39	7090482,107	709645,368
40	7090470,629	709645,813
41	7090460,025	709646,119
42	7090452,114	709646,426
43	7090443,088	709646,775
44	7090411,562	709647,917
45	7090387,681	709648,712
46	7090379,185	709648,995
47	7090352,173	709649,894
48	7090345,78	709650,106
49	7090342,333	709650,221
50	7090336,351	709650,42
51	7090318,137	709651,026
52	7090311,641	709651,242
53	7090306,188	709651,409
54	7090302,098	709651,55
55	7090292,001	709651,804
56	7090288,073	709651,912
57	7090275,047	709652,315
58	7090270,771	709652,788
59	7090264,567	709653,816
60	7090789,712	709617,083
61	7090788,948	709620,682
62	7090786,979	709623,585
63	7090785,746	709624,847
64	7090784,387	709625,485
65	7090782,623	709625,841
66	7090769,782	709627,491
67	7090763,891	709627,842
68	7090750,514	709628,325
69	7090746,518	709628,469
70	7090737,747	709628,786

Ponto	N (m)	E (m)
71	7090732,75	709628,966
72	7090718,991	709629,463
73	7090713,991	709629,632
74	7090689,204	709630,5
75	7090680,419	709630,807
76	7090662,321	709631,467
77	7090659,023	709631,582
78	7090642,109	709632,175
79	7090636,064	709632,387
80	7090629,841	709632,602
81	7090626,389	709632,704
82	7090616,244	709632,987
83	7090608,135	709633,239
84	7090606,561	709633,286
85	7090602,063	709633,418
86	7090588,25	709633,827
87	7090581,258	709634,032
88	7090571,318	709634,388
89	7090566,464	709634,525
90	7090559,571	709634,773
91	7090552,69	709635,02
92	7090533,387	709635,712
93	7090527,435	709635,926
94	7090515,531	709636,299
95	7090510,097	709636,475
96	7090497,965	709636,853
97	7090492,355	709637,035
98	7090485,362	709637,25
99	7090480,798	709637,394
100	7090467,242	709637,821
101	7090462,847	709637,972
102	7090441,722	709638,683
103	7090437,725	709638,82
104	7090432,783	709638,994
105	7090429,171	709639,118
106	7090416,606	709639,543
107	7090412,662	709639,683
108	7090400,101	709640,112
109	7090396,183	709640,242
110	7090391,433	709640,399
111	7090384,127	709640,643
112	7090372,521	709641,028
113	7090368,007	709641,177
114	7090361,569	709641,39
115	7090351,547	709641,686
116	7090343,362	709641,926
117	7090338,887	709642,094
118	7090316,94	709642,723
119	7090311,917	709642,821
120	7090298,33	709643,34
121	7090290,972	709643,589
122	7090286,67	709643,749
123	7090279,971	709644,005
124	7090272,598	709644,29
125	7090268,41	709644,45
126	7090261,461	709644,421
127	7090259,704	709644,05
128	7090258,29	709643,545
129	7090256,873	709642,435
130	7090237,766	709655,506
131	7090214,633	709654,808
132	7090189,182	709655,474
133	7090186,818	709655,538
134	7090163,965	709656,499
135	7090157,194	709656,143
136	7090152,095	709656,275
137	7090146,518	709656,419
138	7090139,329	709656,605
139	7090135,551	709656,696
140	7090130,733	709656,83

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA BENTO TORQUATO DA ROCHA

Ponto	N (m)	E (m)
141	7090125,725	709656,979
142	7090120,991	709657,119
143	7090117,202	709657,232
144	7090110,020	709657,447
145	7090083,984	709658,454
146	7090045,607	709659,796
147	7090043,809	709659,864
148	7090042,309	709659,901
149	7090040,510	709659,958
150	7090032,658	709660,209
151	7090242,203	709644,723
152	7090240,416	709645,138
153	7090238,922	709645,285
154	7090237,123	709645,352
155	7090236,772	709645,368
156	7090230,938	709645,582
157	7090227,367	709645,714
158	7090222,748	709645,886
159	7090215,295	709646,162
160	7090211,281	709646,290
161	7090206,283	709646,455
162	7090200,732	709646,622
163	7090196,749	709646,767
164	7090187,748	709647,072
165	7090185,666	709647,147
166	7090181,418	709647,296
167	7090179,319	709647,369
168	7090167,838	709647,731
169	7090158,848	709647,947
170	7090151,219	709648,174
171	7090145,860	709648,361
172	7090140,905	709648,527
173	7090136,407	709648,646
174	7090130,372	709648,816
175	7090125,918	709648,943
176	7090122,532	709649,030
177	7090118,656	709649,138
178	7090108,237	709649,442
179	7090106,439	709649,522
180	7090104,939	709649,568
181	7090103,140	709649,630
182	7090097,207	709649,861
183	7090072,248	709650,683
184	7090061,496	709651,026
185	7090056,809	709651,179
186	7090052,012	709651,339
187	7090045,346	709651,582
188	7090043,547	709651,638
189	7090042,047	709651,684
190	7090040,249	709651,770
191	7090036,651	709651,902
192	7090033,722	709652,009
193	7090029,830	709652,152
194	7090011,552	709652,822
195	7090001,803	709653,180
196	7089991,022	709653,575
197	7089983,421	709653,854
198	7089973,190	709654,187
199	7089969,079	709654,336
200	7089960,218	709654,624
201	7090007,962	709661,027
202	7090003,591	709661,207
203	7089997,624	709661,411
204	7089979,914	709662,013
205	7089958,346	709662,746
206	7089932,158	709663,384
207	7089928,982	709663,513
208	7089906,907	709664,427
209	7089904,065	709664,543
210	7089887,028	709665,109

Ponto	N (m)	E (m)
211	7089883,210	709665,251
212	7089857,520	709666,775
213	7089851,337	709666,797
214	7089834,337	709666,857
215	7089823,808	709667,097
216	7089819,899	709667,217
217	7089806,811	709667,602
218	7089780,548	709668,586
219	7089765,317	709668,897
220	7089761,348	709668,982
221	7089747,269	709669,275
222	7089743,305	709669,357
223	7089731,443	709669,606
224	7089932,834	709655,555
225	7089930,798	709655,617
226	7089922,802	709655,860
227	7089909,861	709656,249
228	7089905,363	709656,389
229	7089893,800	709656,734
230	7089887,778	709656,916
231	7089881,695	709657,100
232	7089879,896	709657,144
233	7089878,397	709657,205
234	7089876,597	709657,259
235	7089872,874	709657,372
236	7089867,179	709657,545
237	7089864,199	709657,635
238	7089855,233	709657,941
239	7089832,980	709658,716
240	7089828,879	709658,860
241	7089820,146	709659,177
242	7089816,153	709659,350
243	7089810,664	709659,579
244	7089806,953	709659,706
245	7089804,711	709659,781
246	7089803,019	709659,837
247	7089801,523	709659,886
248	7089799,721	709659,946
249	7089793,686	709660,145
250	7089783,418	709660,468
251	7089778,805	709660,616
252	7089768,614	709660,935
253	7089763,864	709661,083
254	7089759,931	709661,198
255	7089754,929	709661,359
256	7089747,731	709661,588
257	7089743,046	709661,733
258	7089708,695	709662,806
259	7089704,579	709662,939
260	7089703,030	709662,983
261	7089698,355	709663,129
262	7089671,954	709663,955
263	7089666,860	709664,117
264	7089656,758	709664,429
265	7089653,252	709664,503
266	7089652,754	709664,579
267	7089651,517	709664,637
268	7089650,000	709664,700
269	7089648,220	709664,774
270	7089640,170	709665,101
271	7089630,005	709665,264
272	7089627,846	709665,300
273	7089623,446	709665,426
274	7089617,025	709665,612
275	7089605,748	709665,936
276	7089594,750	709666,253
277	7089590,535	709666,375
278	7089579,137	709666,666
279	7089701,965	709670,990
280	7089697,945	709671,129

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA BRAULIO DE SA BARBOSA

Ponto	N (m)	E (m)
1	7.090.288,846	708.526,299
2	7.090.288,799	708.526,797
3	7.090.277,714	708.526,982
4	7.090.277,706	708.526,482
5	7.090.273,552	708.526,637
6	7.090.273,552	708.527,137
7	7.090.272,005	708.527,120
8	7.090.271,993	708.526,620
9	7.090.267,818	708.526,722
10	7.090.267,832	708.527,221
11	7.090.264,297	708.527,360
12	7.090.264,283	708.526,807
13	7.090.260,107	708.526,904
14	7.090.260,107	708.527,404
15	7.090.249,370	708.527,669
16	7.090.249,351	708.527,169
17	7.090.233,804	708.528,055
18	7.090.233,752	708.527,529
19	7.090.225,486	708.527,767
20	7.090.225,499	708.528,266
21	7.090.221,818	708.527,852
22	7.090.219,151	708.528,731
23	7.090.216,800	708.530,555
24	7.090.214,844	708.533,801
25	7.090.214,412	708.536,478
26	7.090.289,322	708.517,706
27	7.090.270,037	708.518,467
28	7.090.265,854	708.518,625
29	7.090.265,662	708.518,630
30	7.090.261,127	708.518,730
31	7.090.261,114	708.518,249
32	7.090.255,171	708.518,406
33	7.090.255,180	708.518,923
34	7.090.250,645	708.519,025
35	7.090.250,637	708.518,525
36	7.090.243,150	708.518,722
37	7.090.243,156	708.519,220
38	7.090.238,621	708.519,320
39	7.090.238,608	708.518,841
40	7.090.230,522	708.519,053
41	7.090.230,528	708.519,571
42	7.090.225,994	708.519,671
43	7.090.225,988	708.519,173
44	7.090.222,254	708.519,270
45	7.090.222,254	708.519,770
46	7.090.219,832	708.519,835
47	7.090.217,524	708.519,055
48	7.090.213,900	708.514,564
49	7.090.213,657	708.512,185
50	7.090.203,671	708.512,440
51	7.090.203,751	708.514,285
52	7.090.203,496	708.516,696
53	7.090.197,944	708.520,419
54	7.090.196,144	708.520,466
55	7.090.196,131	708.519,961
56	7.090.186,063	708.520,188
57	7.090.186,077	708.520,697
58	7.090.181,542	708.520,803
59	7.090.181,531	708.520,303
60	7.090.170,521	708.520,597
61	7.090.170,521	708.521,097
62	7.090.165,997	708.521,173
63	7.090.165,986	708.520,673
64	7.090.159,552	708.520,837
65	7.090.159,564	708.521,356
66	7.090.151,467	708.521,535
67	7.090.151,461	708.521,035
68	7.090.145,122	708.521,192
69	7.090.145,130	708.521,703
70	7.090.140,596	708.521,803

Ponto	N (m)	E (m)
71	7.090.140,587	708.521,305
72	7.090.135,716	708.521,431
73	7.090.135,727	708.521,937
74	7.090.131,208	708.522,037
75	7.090.131,199	708.521,538
76	7.090.124,077	708.521,715
77	7.090.124,089	708.522,215
78	7.090.120,588	708.522,301
79	7.090.120,580	708.521,802
80	7.090.115,950	708.521,918
81	7.090.115,943	708.522,418
82	7.090.110,987	708.522,540
83	7.090.110,975	708.522,041
84	7.090.099,696	708.522,309
85	7.090.099,707	708.522,809
86	7.090.094,731	708.522,918
87	7.090.094,724	708.522,427
88	7.090.089,185	708.522,556
89	7.090.089,184	708.523,059
90	7.090.082,010	708.523,229
91	7.090.081,998	708.522,732
92	7.090.080,509	708.522,765
93	7.090.080,504	708.523,265
94	7.090.075,402	708.523,385
95	7.090.075,394	708.522,886
96	7.090.064,219	708.523,159
97	7.090.064,231	708.523,650
98	7.090.204,362	708.536,090
99	7.090.204,282	708.534,304
100	7.090.202,452	708.530,271
101	7.090.199,477	708.528,734
102	7.090.197,683	708.528,550
103	7.090.194,027	708.528,635
104	7.090.193,151	708.528,650
105	7.090.188,987	708.528,768
106	7.090.189,000	708.529,240
107	7.090.173,231	708.529,583
108	7.090.173,215	708.529,082
109	7.090.148,924	708.529,643
110	7.090.148,990	708.530,211
111	7.090.146,998	708.530,220
112	7.090.146,964	708.529,721
113	7.090.141,566	708.529,858
114	7.090.141,579	708.530,358
115	7.090.136,857	708.530,477
116	7.090.136,842	708.529,969
117	7.090.114,817	708.531,012
118	7.090.114,806	708.530,512
119	7.090.104,988	708.530,743
120	7.090.105,000	708.531,247
121	7.090.100,946	708.531,348
122	7.090.100,933	708.530,838
123	7.090.089,707	708.531,103
124	7.090.089,719	708.531,603
125	7.090.085,586	708.531,200
126	7.090.085,586	708.531,700
127	7.090.080,508	708.531,320
128	7.090.080,508	708.531,820
129	7.090.075,675	708.531,434
130	7.090.075,687	708.531,933
131	7.090.066,234	708.532,156
132	7.090.066,281	708.534,164
133	7.090.039,543	708.523,962
134	7.090.038,130	708.524,002
135	7.090.033,195	708.524,127
136	7.090.028,011	708.524,257
137	7.090.023,695	708.524,365
138	7.090.023,683	708.523,867
139	7.090.012,411	708.524,151
140	7.090.012,424	708.524,651

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA CARLOS GUILHERME JERKE (T1)

Ponto	N (m)	E (m)
1	7090707,502	708729,917
2	7090706,542	708735,352
3	7090704,887	708737,048
4	7090702,923	708738,164
5	7090700,424	708738,776
6	7090700,377	708738,011
7	7090677,146	708739,114
8	7090677,187	708739,940
9	7090672,657	708740,101
10	7090672,624	708739,301
11	7090665,229	708739,556
12	7090665,262	708740,355
13	7090661,246	708740,493
14	7090661,214	708739,694
15	7090651,632	708740,023
16	7090651,665	708740,823
17	7090647,869	708740,953
18	7090647,840	708740,254
19	7090624,580	708741,108
20	7090624,612	708741,813
21	7090622,504	708741,885
22	7090616,193	708736,651
23	7090615,901	708733,827
24	7090708,981	708748,615
25	7090706,788	708746,393
26	7090704,990	708746,481
27	7090703,492	708746,554
28	7090701,694	708746,643
29	7090701,758	708747,242
30	7090696,924	708747,478
31	7090696,905	708746,868
32	7090693,208	708747,056
33	7090692,249	708747,107
34	7090688,745	708747,285
35	7090688,775	708747,871
36	7090679,831	708748,256
37	7090679,791	708747,660
38	7090675,554	708747,875
39	7090675,573	708748,445
40	7090666,482	708748,882
41	7090666,452	708748,284
42	7090662,190	708748,490
43	7090662,220	708749,087
44	7090655,993	708749,386
45	7090655,993	708748,786
46	7090651,988	708748,945
47	7090652,019	708749,543
48	7090631,408	708750,369
49	7090631,377	708749,770
50	7090626,471	708750,000
51	7090624,881	708750,062
52	7090622,224	708750,910
53	7090617,561	708755,536
54	7090617,035	708758,253
55	7090607,829	708734,716
56	7090607,861	708736,759
57	7090602,180	708743,020
58	7090600,337	708743,120
59	7090600,294	708742,321
60	7090591,966	708742,774
61	7090592,009	708743,573
62	7090586,512	708743,874
63	7090585,100	708744,004
64	7090580,872	708744,130
65	7090580,828	708743,326
66	7090559,253	708744,219
67	7090559,287	708745,018
68	7090554,392	708745,225
69	7090554,348	708744,427
70	7090549,125	708744,649

Ponto	N (m)	E (m)
71	7090549,163	708745,452
72	7090544,780	708745,634
73	7090544,737	708744,835
74	7090525,138	708745,668
75	7090525,165	708746,467
76	7090520,381	708746,670
77	7090520,343	708745,872
78	7090513,409	708746,170
79	7090513,443	708746,964
80	7090509,269	708747,142
81	7090509,242	708746,543
82	7090501,179	708746,885
83	7090501,204	708747,485
84	7090497,295	708747,647
85	7090497,270	708747,051
86	7090478,716	708747,901
87	7090478,707	708748,441
88	7090475,197	708748,597
89	7090473,215	708748,553
90	7090471,059	708748,396
91	7090465,328	708742,651
92	7090465,132	708740,368
93	7090608,872	708758,209
94	7090608,221	708755,712
95	7090602,686	708751,269
96	7090600,562	708751,209
97	7090600,586	708751,758
98	7090590,340	708752,287
99	7090590,312	708751,734
100	7090585,806	708751,939
101	7090585,836	708752,491
102	7090576,723	708752,905
103	7090576,701	708752,356
104	7090568,900	708752,706
105	7090568,928	708753,259
106	7090560,975	708753,614
107	7090560,943	708753,062
108	7090556,939	708753,243
109	7090556,964	708753,793
110	7090549,312	708754,137
111	7090549,222	708753,584
112	7090545,168	708753,768
113	7090545,202	708754,301
114	7090536,604	708754,700
115	7090536,579	708754,148
116	7090532,576	708754,351
117	7090532,600	708754,879
118	7090525,192	708755,209
119	7090525,169	708754,687
120	7090521,156	708754,841
121	7090521,181	708755,388
122	7090513,108	708755,748
123	7090513,084	708755,198
124	7090509,056	708755,378
125	7090509,081	708755,927
126	7090493,777	708756,609
127	7090493,752	708756,057
128	7090488,648	708756,287
129	7090488,673	708756,837
130	7090480,227	708757,213
131	7090480,203	708756,661
132	7090475,455	708756,875
133	7090474,096	708756,936
134	7090471,853	708757,128
135	7090466,462	708762,186
136	7090465,890	708764,299
137	7090457,226	708741,316
138	7090457,115	708743,162
139	7090450,690	708749,754
140	7090448,882	708749,911

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA CARLOS VITOR HARDT

Ponto	N (m)	E (m)
1	7090862,061	708943,283
2	7090859,668	708943,513
3	7090859,623	708942,866
4	7090802,233	708946,761
5	7090802,275	708947,410
6	7090798,839	708947,633
7	7090798,799	708946,981
8	7090743,287	708949,857
9	7090743,320	708950,507
10	7090738,746	708950,745
11	7090738,712	708950,089
12	7090698,105	708952,290
13	7090698,191	708952,937
14	7090691,726	708953,237
15	7090691,696	708952,588
16	7090688,048	708952,758
17	7090688,079	708953,407
18	7090684,085	708953,593
19	7090684,055	708952,943
20	7090663,770	708953,888
21	7090663,802	708954,538
22	7090659,835	708954,731
23	7090658,827	708954,769
24	7090655,908	708954,913
25	7090655,877	708954,255
26	7090651,886	708954,441
27	7090651,912	708955,091
28	7090646,049	708955,316
29	7090646,040	708954,653
30	7090633,741	708955,086
31	7090633,766	708955,736
32	7090865,572	708960,637
33	7090864,111	708955,004
34	7090862,900	708953,673
35	7090861,662	708952,823
36	7090860,032	708952,061
37	7090678,722	708962,552
38	7090678,684	708961,853
39	7090674,714	708962,038
40	7090674,746	708962,737
41	7090664,336	708963,222
42	7090664,303	708962,522
43	7090660,305	708962,709
44	7090660,337	708963,408
45	7090649,416	708963,890
46	7090649,393	708963,190
47	7090640,702	708963,496
48	7090640,727	708964,196
49	7090632,162	708964,498
50	7090632,137	708963,798
51	7090607,824	708957,025
52	7090607,793	708956,326
53	7090604,449	708956,474
54	7090604,493	708957,183
55	7090600,764	708957,338
56	7090600,720	708956,640
57	7090585,307	708957,324
58	7090585,338	708958,024
59	7090576,511	708958,425
60	7090576,480	708957,716
61	7090568,641	708958,064
62	7090568,683	708958,762
63	7090564,936	708958,929
64	7090564,905	708958,229
65	7090557,191	708958,572
66	7090557,210	708959,272
67	7090552,198	708959,485
68	7090552,167	708958,795

Ponto	N (m)	E (m)
71	7090543,046	708959,200
72	7090543,077	708959,899
73	7090539,409	708960,078
74	7090539,374	708959,363
75	7090521,746	708960,145
76	7090521,779	708960,846
77	7090516,707	708961,080
78	7090514,962	708961,148
79	7090510,426	708961,349
80	7090510,395	708960,649
81	7090482,159	708961,902
82	7090482,190	708962,602
83	7090479,410	708962,496
84	7090475,531	708960,522
85	7090473,281	708956,884
86	7090472,949	708954,363
87	7090610,233	708964,759
88	7090605,158	708964,897
89	7090605,191	708965,606
90	7090599,133	708965,889
91	7090599,101	708965,190
92	7090594,746	708965,393
93	7090590,553	708965,589
94	7090590,619	708966,288
95	7090557,608	708967,832
96	7090557,570	708967,131
97	7090552,888	708967,382
98	7090552,919	708968,052
99	7090544,034	708968,468
100	7090544,001	708967,766
101	7090539,767	708967,964
102	7090539,800	708968,666
103	7090522,824	708969,459
104	7090522,792	708968,757
105	7090515,661	708969,090
106	7090515,693	708969,794
107	7090505,893	708970,252
108	7090505,860	708969,548
109	7090501,847	708969,736
110	7090501,879	708970,440
111	7090491,736	708970,915
112	7090491,741	708970,231
113	7090487,065	708970,450
114	7090487,097	708971,132
115	7090482,574	708971,343
116	7090482,549	708970,638
117	7090465,038	708954,994
118	7090465,070	708955,749
119	7090465,126	708957,483
120	7090459,389	708963,690
121	7090456,910	708963,797
122	7090456,878	708963,047
123	7090446,974	708963,475
124	7090447,006	708964,225
125	7090438,216	708964,605
126	7090438,183	708963,855
127	7090421,923	708964,586
128	7090421,959	708965,336
129	7090417,891	708965,519
130	7090417,857	708964,769
131	7090409,865	708965,124
132	7090409,898	708965,874
133	7090402,463	708966,203
134	7090402,424	708965,492
135	7090394,999	708965,889
136	7090395,036	708966,647
137	7090390,889	708966,840
138	7090390,841	708966,091
139	7090374,748	708966,814
140	7090374,791	708967,638

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA COMANDANTE KARL BUSCH

Ponto	N (m)	E (m)
1	7089947,673	709353,656
2	7089943,983	709355,412
3	7089942,408	709357,215
4	7089941,535	709359,073
5	7089941,152	709361,475
6	7089941,743	709361,478
7	7089942,446	709386,930
8	7089941,846	709386,930
9	7089941,975	709390,969
10	7089942,241	709392,575
11	7089942,599	709413,539
12	7089943,299	709413,530
13	7089944,639	709459,838
14	7089943,890	709459,859
15	7089943,917	709460,651
16	7089944,107	709462,175
17	7089946,462	709466,283
18	7089950,648	709468,327
19	7089952,262	709468,421
20	7089952,899	709468,371
21	7089930,416	709356,476
22	7089931,926	709358,231
23	7089932,698	709359,807
24	7089933,167	709362,281
25	7089933,261	709365,659
26	7089934,022	709392,774
27	7089934,277	709401,914
28	7089934,491	709409,793
29	7089934,627	709414,468
30	7089934,859	709422,793
31	7089934,973	709426,914
32	7089935,894	709459,945
33	7089935,912	709460,582
34	7089935,704	709462,628
35	7089933,740	709466,288
36	7089928,175	709468,800
37	7089927,117	709468,831
38	7089953,736	709475,823
39	7089952,563	709475,851
40	7089947,021	709478,379
41	7089945,338	709481,126
42	7089944,890	709483,178
43	7089944,865	709484,076
44	7089944,978	709488,120
45	7089945,782	709488,097
46	7089945,693	709512,707
47	7089946,492	709512,684
48	7089945,993	709523,100
49	7089946,793	709523,092
50	7089947,124	709534,557
51	7089946,325	709534,580
52	7089946,442	709538,794
53	7089947,246	709538,772
54	7089947,616	709551,695
55	7089946,803	709551,140
56	7089947,027	709552,926
57	7089949,335	709556,959
58	7089954,931	709559,048
59	7089954,244	709558,227
60	7089957,036	709558,225
61	7089927,628	709476,875
62	7089927,898	709476,867
63	7089930,399	709477,280
64	7089933,442	709479,125
65	7089935,681	709483,199
66	7089935,036	709483,370
67	7089936,956	709551,586
68	7089937,806	709551,561
69	7089937,825	709552,195
70	7089937,525	709554,259

Ponto	N (m)	E (m)
71	7089936,724	709556,105
72	7089936,347	709556,670
73	7089934,881	709558,185
74	7089932,531	709559,439
75	7089956,574	709567,048
76	7089955,598	709567,093
77	7089953,195	709567,537
78	7089950,026	709569,588
79	7089948,045	709573,264
80	7089947,836	709575,286
81	7089947,843	709575,594
82	7089948,643	709575,575
83	7089948,972	709589,028
84	7089948,173	709589,048
85	7089948,649	709609,477
86	7089949,473	709609,457
87	7089949,857	709625,147
88	7089949,090	709625,205
89	7089949,189	709630,572
90	7089949,989	709630,552
91	7089950,389	709646,896
92	7089950,480	709647,860
93	7089949,617	709647,392
94	7089950,000	709649,176
95	7089952,094	709652,521
96	7089957,587	709654,706
97	7089957,066	709653,887
98	7089957,821	709653,902
99	7089960,241	709653,823
100	7089960,267	709654,626
101	7089931,350	709568,660
102	7089931,101	709569,421
103	7089938,920	709578,844
104	7089933,660	709570,679
105	7089934,110	709570,018
106	7089935,497	709571,117
107	7089936,932	709572,800
108	7089937,255	709574,995
109	7089937,987	709574,630
110	7089938,243	709583,857
111	7089939,047	709583,838
112	7089939,146	709588,070
113	7089938,346	709588,090
114	7089938,340	709589,353
115	7089939,200	709589,332
116	7089939,656	709609,338
117	7089938,867	709609,357
118	7089939,060	709617,242
119	7089939,860	709617,236
120	7089939,981	709622,392
121	7089939,187	709622,411
122	7089939,798	709647,383
123	7089939,771	709648,212
124	7089940,714	709647,560
125	7089940,362	709649,420
126	7089934,763	709655,270
127	7089932,834	709655,555
128	7089958,219	709662,634
129	7089957,966	709662,646
130	7089952,613	709665,165
131	7089950,620	709669,012
132	7089950,456	709670,804
133	7089950,957	709670,433
134	7089951,089	709674,399
135	7089950,589	709674,418
136	7089950,743	709678,695
137	7089951,245	709678,638
138	7089951,502	709685,570
139	7089951,000	709685,586
140	7089951,145	709689,636

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA COMANDANTE KARL BUSCH

Ponto	N (m)	E (m)
141	7089951,603	709689,590
142	7089951,743	709693,625
143	7089951,304	709693,749
144	7089951,471	709698,265
145	7089951,970	709698,246
146	7089952,121	709702,311
147	7089951,621	709702,330
148	7089951,771	709706,387
149	7089952,271	709706,367
150	7089952,613	709715,626
151	7089952,113	709715,631
152	7089952,254	709719,409
153	7089952,752	709719,391
154	7089953,107	709728,986
155	7089952,607	709729,005
156	7089953,357	709750,000
157	7089953,883	709749,978
158	7089954,282	709760,751
159	7089953,782	709760,770
160	7089953,941	709765,187
161	7089954,445	709765,168
162	7089955,202	709785,624
163	7089954,702	709785,642
164	7089955,043	709794,875
165	7089955,543	709794,856
166	7089955,984	709806,792
167	7089955,485	709806,810
168	7089955,652	709811,446
169	7089956,155	709811,422
170	7089956,522	709821,340
171	7089956,023	709821,358
172	7089956,210	709826,552
173	7089956,714	709826,533
174	7089957,451	709846,457
175	7089956,930	709845,902
176	7089956,982	709847,308
177	7089957,113	709848,483
178	7089959,541	709852,882
179	7089963,206	709854,814
180	7089965,294	709855,006
181	7089932,158	709663,384
182	7089932,857	709663,387
183	7089934,634	709663,677
184	7089937,904	709665,512
185	7089940,220	709669,415
186	7089940,463	709671,199
187	7089939,948	709670,877
188	7089940,171	709676,835
189	7089940,671	709676,817
190	7089940,821	709680,884
191	7089940,322	709680,903
192	7089940,886	709696,159
193	7089941,394	709696,140
194	7089941,665	709703,692
195	7089941,165	709703,710
196	7089941,706	709718,334
197	7089942,206	709718,321
198	7089942,397	709722,413
199	7089941,857	709722,433
200	7089942,155	709730,498
201	7089942,655	709730,479
202	7089942,864	709736,126
203	7089942,364	709736,144
204	7089942,723	709745,857
205	7089943,227	709745,838
206	7089943,369	709749,796
207	7089942,870	709749,814
208	7089944,344	709789,670
209	7089944,856	709789,652
210	7089945,006	709793,773

Ponto	N (m)	E (m)
211	7089944,496	709793,790
212	7089945,518	709821,418
213	7089946,023	709821,400
214	7089946,173	709825,603
215	7089945,673	709825,621
216	7089946,444	709846,480
217	7089946,944	709846,462
218	7089946,969	709847,289
219	7089946,853	709848,914
220	7089944,832	709852,733
221	7089939,225	709855,286
222	7089937,485	709855,350
223	7089964,747	709865,036
224	7089962,166	709865,573
225	7089959,199	709867,588
226	7089957,284	709871,167
227	7089957,064	709873,030
228	7089957,564	709873,048
229	7089957,623	709874,829
230	7089957,123	709874,847
231	7089957,264	709878,995
232	7089957,768	709878,977
233	7089957,861	709881,597
234	7089957,359	709881,619
235	7089957,701	709891,283
236	7089958,201	709891,266
237	7089959,369	709924,462
238	7089958,869	709924,475
239	7089959,019	709928,741
240	7089959,518	709928,724
241	7089959,951	709941,032
242	7089959,455	709941,049
243	7089959,785	709950,735
244	7089960,292	709950,706
245	7089960,722	709962,944
246	7089960,223	709962,962
247	7089960,387	709967,685
248	7089960,888	709967,666
249	7089961,219	709977,076
250	7089960,720	709977,089
251	7089960,897	709982,176
252	7089961,398	709982,157
253	7089961,974	709998,529
254	7089961,474	709998,547
255	7089961,643	710003,334
256	7089962,143	710003,318
257	7089962,368	710009,722
258	7089961,872	710009,739
259	7089962,029	710014,333
260	7089962,529	710014,314
261	7089962,948	710026,211
262	7089962,448	710026,211
263	7089937,581	709865,337
264	7089938,759	709865,310
265	7089939,770	709865,336
266	7089944,506	709867,446
267	7089946,859	709871,534
268	7089947,052	709873,023
269	7089947,096	709873,704
270	7089947,214	709877,610
271	7089946,714	709877,628
272	7089947,053	709887,272
273	7089947,553	709887,254
274	7089947,724	709891,567
275	7089947,205	709891,585
276	7089947,532	709900,875
277	7089948,032	709900,857
278	7089948,217	709905,589
279	7089947,698	709905,608
280	7089948,372	709924,754

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA DANTE NAZATO

Ponto	N (m)	E (m)
1	7090255,962	709133,565
2	7090255,851	709132,953
3	7090245,413	709133,974
4	7090241,814	709134,122
5	7090239,715	709134,198
6	7090238,216	709134,254
7	7090236,113	709134,340
8	7090236,090	709133,571
9	7090178,534	709135,772
10	7090178,562	709136,546
11	7090171,559	709136,810
12	7090171,523	709136,011
13	7090089,735	709139,025
14	7090089,702	709139,827
15	7090252,788	709142,307
16	7090252,243	709142,690
17	7090247,603	709141,565
18	7090242,855	709141,331
19	7090241,773	709141,347
20	7090239,949	709141,376
21	7090238,473	709141,398
22	7090236,650	709141,427
23	7090236,686	709141,826
24	7090161,015	709145,114
25	7090160,981	709144,315
26	7090153,685	709144,561
27	7090153,723	709145,430
28	7090132,169	709146,364
29	7090132,135	709145,566
30	7090124,953	709145,861
31	7090124,989	709146,675
32	7090088,546	709147,345
33	7090088,577	709148,105
34	7090086,088	709147,402
35	7090084,589	709147,435
36	7090082,099	709148,208
37	7090082,089	709147,495
38	7090058,276	709148,044
39	7090058,276	709148,585
40	7090053,536	709148,762
41	7090053,522	709148,215
42	7090034,456	709148,902
43	7090034,479	709149,569
44	7090031,032	709149,692
45	7090031,006	709148,965
46	7090027,005	709149,130
47	7090027,023	709149,822
48	7090017,206	709150,185
49	7090017,181	709149,480
50	7090013,116	709149,578
51	7090013,144	709150,330
52	7090003,973	709150,657
53	7090003,945	709149,892
54	7089999,756	709150,072
55	7089999,780	709150,799
56	7089984,432	709151,316
57	7089984,406	709150,562
58	7089980,216	709150,706
59	7089980,239	709151,504
60	7089968,055	709151,865
61	7089968,034	709151,136
62	7089963,948	709151,263
63	7089964,005	709151,989
64	7089954,670	709152,370
65	7.089.955	709.152
66	7.089.946	709.152
67	7.089.947	709.153
68	7.089.928	709.153
69	7.089.928	709.152
70	7.089.924	709.153

Ponto	N (m)	E (m)
71	7.089.924,161	709.153,373
72	7.089.917,060	709.153,634
73	7.089.917,034	709.152,929
74	7.089.912,808	709.153,056
75	7.089.912,870	709.153,789
76	7.089.907,816	709.153,975
77	7.089.907,789	709.153,263
78	7.089.900,072	709.153,582
79	7.089.900,090	709.154,234
80	7.089.880,767	709.154,848
81	7.089.880,747	709.154,245
82	7.089.878,648	709.154,316
83	7.089.877,149	709.154,367
84	7.089.875,051	709.154,438
85	7.089.875,076	709.155,021
86	7.089.857,624	709.155,720
87	7.089.857,592	709.155,048
88	7.089.853,431	709.155,176
89	7.089.853,454	709.155,808
90	7.089.851,993	709.155,839
91	7.089.851,947	709.155,254
92	7.089.847,810	709.155,405
93	7.089.840,635	709.155,676
94	7.089.836,299	709.155,835
95	7.089.827,395	709.156,130
96	7.089.822,693	709.156,302
97	7.089.815,321	709.156,559
98	7.089.811,296	709.156,707
99	7.089.811,315	709.157,263
100	7.089.805,914	709.157,480
101	7.089.805,899	709.156,886
102	7.089.798,600	709.157,163
103	7.089.798,620	709.157,762
104	7.089.793,872	709.157,960
105	7.089.793,847	709.157,298
106	7.090.065,884	709.140,426
107	7.090.065,875	709.139,626
108	7.090.052,895	709.139,766
109	7.090.052,884	709.140,578
110	7.090.047,925	709.140,636
111	7.090.047,916	709.139,819
112	7.090.016,539	709.140,742
113	7.090.016,568	709.141,456
114	7.090.004,124	709.141,956
115	7.090.004,115	709.141,239
116	7.089.955,456	709.142,843
117	7.089.955,470	709.143,513
118	7.089.951,039	709.143,701
119	7.089.951,033	709.142,989
120	7.089.946,587	709.143,136
121	7.089.946,596	709.143,854
122	7.089.942,667	709.143,959
123	7.089.942,648	709.143,266
124	7.089.933,734	709.143,573
125	7.089.933,751	709.144,294
126	7.089.929,751	709.144,352
127	7.089.929,730	709.143,701
128	7.089.927,904	709.143,760
129	7.089.927,932	709.144,476
130	7.089.924,310	709.144,617
131	7.089.924,286	709.143,876
132	7.089.918,101	709.144,075
133	7.089.918,140	709.144,829
134	7.089.895,550	709.145,469
135	7.089.895,368	709.144,858
136	7.089.880,931	709.145,362
137	7.089.880,963	709.146,114
138	7.089.878,865	709.146,203
139	7.089.877,366	709.146,266
140	7.089.875,269	709.146,368

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA DANTE NAZATO

Ponto	N (m)	E (m)
141	7.089.871,769	709.146,473
142	7.089.871,680	709.145,665
143	7.089.864,396	709.145,945
144	7.089.864,427	709.146,724
145	7.089.860,409	709.146,860
146	7.089.860,383	709.146,092
147	7.089.857,745	709.146,193
148	7.089.857,771	709.146,950
149	7.089.853,539	709.147,112
150	7.089.853,510	709.146,283
151	7.089.847,091	709.146,556
152	7.089.847,103	709.147,327
153	7.089.840,559	709.147,576
154	7.089.840,524	709.146,848
155	7.089.828,645	709.147,260
156	7.089.828,668	709.147,970
157	7.089.820,916	709.148,212
158	7.089.820,916	709.147,516
159	7.089.811,810	709.147,838
160	7.089.811,832	709.148,463
161	7.089.807,827	709.148,556
162	7.089.807,826	709.147,969
163	7.089.792,877	709.148,465
164	7.089.792,904	709.149,089
165	7.089.790,806	709.149,177
166	7.089.789,307	709.149,240
167	7.089.787,209	709.149,329
168	7.089.787,181	709.148,659
169	7.089.776,414	709.149,016
170	7.089.776,451	709.149,782
171	7.089.772,480	709.149,895
172	7.089.772,433	709.149,140
173	7.089.762,794	709.149,488
174	7.089.762,818	709.150,305
175	7.089.754,956	709.150,581
176	7.089.754,927	709.149,772
177	7.089.747,720	709.150,000
178	7.089.747,767	709.150,835
179	7.089.740,915	709.151,083
180	7.089.740,888	709.150,263
181	7.089.738,919	709.150,349
182	7.089.738,947	709.151,145
183	7.089.724,480	709.151,575
184	7.089.724,459	709.150,868
185	7.089.716,482	709.151,152
186	7.089.716,473	709.151,781
187	7.089.770,598	709.158,169
188	7.089.770,619	709.158,858
189	7.089.751,848	709.159,447
190	7.089.751,821	709.158,626
191	7.089.738,258	709.159,102
192	7.089.738,285	709.159,920
193	7.089.731,819	709.160,157
194	7.089.731,811	709.159,335
195	7.089.727,599	709.159,508
196	7.089.727,629	709.160,310
197	7.089.722,950	709.160,482
198	7.089.722,920	709.159,661
199	7.089.718,724	709.159,781
200	7.089.718,756	709.160,635
201	7.089.716,643	709.160,756
202	7.089.716,611	709.159,892
203	7.089.683,496	709.152,807
204	7.089.679,860	709.152,962
205	7.089.669,437	709.153,553
206	7.089.665,193	709.153,689
207	7.089.665,162	709.152,917
208	7.089.637,853	709.154,002
209	7.089.637,874	709.154,538
210	7.089.635,777	709.154,618

Ponto	N (m)	E (m)
211	7.089.634,271	709.154,675
212	7.089.632,172	709.154,755
213	7.089.631,776	709.154,775
214	7.089.627,769	709.154,922
215	7.089.627,756	709.154,402
216	7.089.618,344	709.154,776
217	7.089.618,363	709.155,269
218	7.089.608,840	709.155,642
219	7.089.601,531	709.155,920
220	7.089.596,300	709.156,119
221	7.089.596,295	709.155,644
222	7.089.581,266	709.156,105
223	7.089.581,284	709.156,725
224	7.089.576,340	709.156,878
225	7.089.571,918	709.156,942
226	7.089.571,900	709.156,180
227	7.089.563,534	709.156,371
228	7.089.563,536	709.157,169
229	7.089.689,933	709.160,837
230	7.089.689,956	709.161,471
231	7.089.684,064	709.161,606
232	7.089.684,051	709.161,045
233	7.089.680,501	709.161,171
234	7.089.680,526	709.161,732
235	7.089.669,477	709.162,123
236	7.089.669,477	709.161,570
237	7.089.664,916	709.161,723
238	7.089.664,949	709.162,350
239	7.089.653,767	709.162,685
240	7.089.653,767	709.162,118
241	7.089.649,685	709.162,263
242	7.089.640,737	709.162,567
243	7.089.637,241	709.162,695
244	7.089.616,260	709.163,433
245	7.089.616,269	709.163,933
246	7.089.603,469	709.164,414
247	7.089.603,449	709.163,914
248	7.089.589,539	709.164,443
249	7.089.585,298	709.164,586
250	7.089.536,773	709.158,186
251	7.089.536,781	709.157,385
252	7.089.513,165	709.158,149
253	7.089.513,201	709.158,948
254	7.089.508,947	709.159,086
255	7.089.508,921	709.158,286
256	7.089.487,159	709.158,987
257	7.089.487,185	709.159,790
258	7.089.485,386	709.159,848
259	7.089.483,887	709.159,896
260	7.089.482,088	709.159,954
261	7.089.482,062	709.159,155
262	7.089.412,199	709.161,415
263	7.089.412,224	709.162,214
264	7.089.536,993	709.166,183
265	7.089.537,057	709.166,981
266	7.089.487,084	709.168,597
267	7.089.487,058	709.167,798
268	7.089.463,070	709.168,574
269	7.089.463,096	709.169,373
270	7.089.412,411	709.171,013
271	7.089.412,382	709.170,213
272	7.089.386,271	709.163,244
273	7.089.386,231	709.162,445
274	7.089.333,928	709.164,434
275	7.089.333,928	709.165,221
276	7.089.332,159	709.165,302
277	7.089.330,661	709.165,359
278	7.089.328,862	709.165,427
279	7.089.328,831	709.164,627
280	7.089.230,127	709.187,857

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA DR MAURO MOURA

Ponto	N (m)	E (m)
1	7090069,767	709056,737
2	7090069,850	709058,616
3	7090067,735	709064,093
4	7090064,136	709066,340
5	7090061,926	709066,675
6	7090061,898	709065,876
7	7090050,785	709066,259
8	7090050,813	709067,065
9	7090045,627	709067,238
10	7090045,599	709066,438
11	7090038,151	709066,695
12	7090038,179	709067,500
13	7090032,939	709066,875
14	7090032,967	709067,674
15	7090018,462	709067,375
16	7090018,395	709068,183
17	7090013,272	709067,554
18	7090013,220	709068,356
19	7090004,800	709067,846
20	7090004,828	709068,646
21	7090000,613	709068,791
22	7090000,584	709067,992
23	7089992,834	709069,060
24	7089992,806	709068,260
25	7089988,951	709069,194
26	7089988,923	709068,394
27	7089980,917	709069,471
28	7089980,889	709068,672
29	7089976,304	709069,630
30	7089976,277	709068,831
31	7089964,395	709070,047
32	7089964,367	709069,242
33	7089959,091	709070,224
34	7089959,063	709069,425
35	7089952,105	709069,665
36	7089952,128	709070,465
37	7089947,450	709069,826
38	7089947,477	709070,625
39	7089940,015	709070,082
40	7089940,048	709070,886
41	7089935,071	709070,253
42	7089935,069	709071,078
43	7089928,407	709070,483
44	7089928,434	709071,287
45	7089923,752	709070,644
46	7089923,779	709071,443
47	7089916,811	709070,883
48	7089916,792	709071,675
49	7090070,967	709081,700
50	7090070,085	709078,227
51	7090068,855	709076,611
52	7090067,811	709075,769
53	7090066,202	709074,983
54	7090063,045	709074,642
55	7090063,073	709075,441
56	7090050,268	709075,082
57	7090050,296	709075,882
58	7090046,058	709075,223
59	7090046,086	709076,027
60	7090039,075	709075,469
61	7090039,103	709076,268
62	7090033,773	709075,652
63	7090033,800	709076,451
64	7090019,031	709076,161
65	7090019,059	709076,960
66	7090010,513	709076,445
67	7090010,541	709077,254
68	7089993,883	709077,028
69	7089993,911	709077,828
70	7089989,904	709077,162

Ponto	N (m)	E (m)
71	7089989,263	709077,188
72	7089985,498	709077,314
73	7089985,526	709078,117
74	7089969,782	709077,860
75	7089969,810	709078,660
76	7089965,776	709077,999
77	7089965,804	709078,798
78	7089956,400	709078,322
79	7089956,428	709079,122
80	7089952,410	709078,456
81	7089951,665	709078,486
82	7089947,790	709078,619
83	7089947,818	709079,419
84	7089939,603	709078,902
85	7089939,631	709079,701
86	7089935,556	709079,037
87	7089935,584	709079,841
88	7089916,692	709079,701
89	7089916,719	709080,492
90	7089892,402	709072,713
91	7089892,369	709071,713
92	7089892,552	709080,712
93	7089892,570	709081,212
94	7089881,490	709081,074
95	7089881,509	709081,606
96	7089877,156	709081,211
97	7089877,167	709081,759
98	7089862,630	709081,691
99	7089862,631	709082,271
100	7089858,041	709081,836
101	7089858,062	709082,431
102	7089850,523	709082,087
103	7089850,541	709082,696
104	7089842,483	709082,341
105	7089842,506	709082,979
106	7089834,396	709082,614
107	7089834,419	709083,264
108	7089829,880	709082,757
109	7089829,912	709083,423
110	7089820,737	709083,061
111	7089820,745	709083,742
112	7089816,689	709083,193
113	7089816,714	709083,882
114	7089810,132	709083,408
115	7089810,156	709084,131
116	7089805,446	709083,561
117	7089805,470	709084,273
118	7089793,995	709083,935
119	7089794,014	709084,672
120	7089789,531	709084,077
121	7089789,557	709084,827
122	7089786,659	709084,175
123	7089786,681	709084,927
124	7089781,721	709084,337
125	7089781,748	709085,099
126	7089767,370	709084,806
127	7089767,399	709085,606
128	7089763,073	709084,946
129	7089762,290	709084,972
130	7089758,112	709085,109
131	7089758,138	709085,909
132	7089754,188	709085,241
133	7089754,214	709086,037
134	7089749,929	709085,384
135	7089749,659	709085,386
136	7089745,451	709085,523
137	7089745,477	709086,323
138	7089737,780	709085,774
139	7089737,806	709086,574
140	7089733,572	709085,912

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA FRANCISCO MOSER

Ponto	N (m)	E (m)
1	7.090.826,400	709.196,735
2	7.090.825,903	709.191,281
3	7.090.824,181	709.189,294
4	7.090.821,196	709.188,272
5	7.090.819,149	709.188,199
6	7.090.789,948	709.188,447
7	7.090.789,195	709.188,481
8	7.090.789,204	709.189,051
9	7.090.783,035	709.188,567
10	7.090.783,065	709.189,267
11	7.090.773,925	709.188,801
12	7.090.773,945	709.189,601
13	7.090.763,408	709.189,071
14	7.090.763,428	709.189,871
15	7.090.758,498	709.189,192
16	7.090.757,902	709.189,213
17	7.090.757,921	709.189,953
18	7.090.722,513	709.191,073
19	7.090.722,490	709.190,434
20	7.090.717,181	709.190,625
21	7.090.698,146	709.190,997
22	7.090.694,156	709.191,087
23	7.090.680,389	709.191,407
24	7.090.676,441	709.191,509
25	7.090.676,461	709.192,078
26	7.090.666,262	709.192,412
27	7.090.666,241	709.191,772
28	7.090.662,273	709.192,525
29	7.090.662,256	709.191,871
30	7.090.657,964	709.192,636
31	7.090.657,948	709.191,987
32	7.090.653,984	709.192,889
33	7.090.653,963	709.192,085
34	7.090.643,958	709.193,169
35	7.090.643,935	709.192,370
36	7.090.639,912	709.193,283
37	7.090.639,889	709.192,483
38	7.090.632,482	709.193,492
39	7.090.632,459	709.192,693
40	7.090.624,783	709.192,909
41	7.090.624,172	709.192,926
42	7.090.619,688	709.193,049
43	7.090.619,709	709.193,554
44	7.090.613,989	709.193,217
45	7.090.614,003	709.193,717
46	7.090.607,491	709.193,402
47	7.090.603,518	709.193,516
48	7.090.603,538	709.194,215
49	7.090.595,342	709.194,549
50	7.090.595,319	709.193,750
51	7.090.590,011	709.193,901
52	7.090.588,855	709.193,934
53	7.090.584,529	709.194,058
54	7.090.584,552	709.194,857
55	7.090.574,581	709.195,133
56	7.090.574,559	709.194,333
57	7.090.570,013	709.194,452
58	7.090.570,027	709.195,252
59	7.090.554,884	709.195,395
60	7.090.554,870	709.194,845
61	7.090.547,412	709.195,039
62	7.090.547,433	709.195,839
63	7.090.529,279	709.196,209
64	7.090.529,264	709.195,410
65	7.090.524,300	709.196,301
66	7.090.524,285	709.195,501
67	7.090.519,502	709.196,389
68	7.090.519,487	709.195,589
69	7.090.515,432	709.196,464
70	7.090.515,418	709.195,660

Ponto	N (m)	E (m)
71	7.090.494,511	709.197,213
72	7.090.494,470	709.196,415
73	7.090.490,037	709.197,447
74	7.090.489,995	709.196,644
75	7.090.479,066	709.198,110
76	7.090.479,025	709.197,311
77	7.090.474,592	709.198,343
78	7.090.474,550	709.197,544
79	7.090.458,785	709.199,370
80	7.090.458,732	709.198,572
81	7.090.453,518	709.199,617
82	7.090.453,471	709.198,913
83	7.090.430,758	709.201,218
84	7.090.430,706	709.200,419
85	7.090.421,393	709.201,829
86	7.090.421,327	709.201,021
87	7.090.415,934	709.202,186
88	7.090.415,881	709.201,387
89	7.090.411,655	709.202,465
90	7.090.411,603	709.201,667
91	7.090.404,655	709.202,922
92	7.090.404,603	709.202,124
93	7.090.400,377	709.203,202
94	7.090.400,325	709.202,404
95	7.090.391,140	709.203,805
96	7.090.391,088	709.203,007
97	7.090.386,675	709.204,097
98	7.090.386,617	709.203,294
99	7.090.374,565	709.204,893
100	7.090.374,519	709.204,209
101	7.090.364,750	709.204,863
102	7.090.364,795	709.205,548
103	7.090.361,982	709.205,736
104	7.090.361,929	709.204,938
105	7.090.358,317	709.205,982
106	7.090.358,259	709.205,180
107	7.090.343,925	709.206,946
108	7.090.343,872	709.206,148
109	7.090.336,336	709.206,653
110	7.090.336,379	709.207,452
111	7.090.307,035	709.208,630
112	7.090.307,087	709.209,414
113	7.090.302,552	709.208,799
114	7.090.302,573	709.209,339
115	7.090.299,165	709.208,926
116	7.090.299,188	709.209,525
117	7.090.295,102	709.209,078
118	7.090.295,132	709.209,878
119	7.090.284,090	709.209,492
120	7.090.284,120	709.210,291
121	7.090.280,002	709.209,645
122	7.090.280,032	709.210,445
123	7.090.273,471	709.210,691
124	7.090.273,432	709.209,899
125	7.090.268,920	709.210,803
126	7.090.268,884	709.210,004
127	7.090.259,091	709.210,695
128	7.090.254,585	709.211,780
129	7.090.252,972	709.213,092
130	7.090.830,680	709.172,638
131	7.090.829,917	709.175,148
132	7.090.828,030	709.178,055
133	7.090.826,628	709.178,597
134	7.090.824,336	709.179,140
135	7.090.822,398	709.179,327
136	7.090.780,596	709.180,396
137	7.090.780,583	709.179,646
138	7.090.768,426	709.180,698
139	7.090.768,412	709.179,898
140	7.090.762,420	709.180,877

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA FRANCISCO MOSER

Ponto	N (m)	E (m)
141	7.090.762,399	709.180,077
142	7.090.709,669	709.182,443
143	7.090.709,661	709.181,943
144	7.090.705,942	709.182,540
145	7.090.705,929	709.181,990
146	7.090.694,387	709.182,848
147	7.090.694,374	709.182,293
148	7.090.690,169	709.182,959
149	7.090.690,155	709.182,359
150	7.090.686,711	709.183,054
151	7.090.686,697	709.182,454
152	7.090.681,625	709.183,193
153	7.090.681,610	709.182,544
154	7.090.662,713	709.183,719
155	7.090.662,697	709.183,012
156	7.090.656,468	709.183,884
157	7.090.656,446	709.183,084
158	7.090.641,273	709.184,305
159	7.090.641,245	709.183,501
160	7.090.636,794	709.184,423
161	7.090.636,756	709.183,624
162	7.090.612,019	709.185,099
163	7.090.611,990	709.184,500
164	7.090.607,050	709.185,229
165	7.090.600,514	709.185,404
166	7.090.595,951	709.185,518
167	7.090.577,723	709.185,994
168	7.090.573,924	709.186,093
169	7.090.557,040	709.186,534
170	7.090.551,759	709.186,672
171	7.090.551,743	709.186,172
172	7.090.533,012	709.187,324
173	7.090.532,990	709.186,820
174	7.090.528,377	709.187,501
175	7.090.526,916	709.187,564
176	7.090.522,163	709.187,745
177	7.090.522,123	709.186,946
178	7.090.507,775	709.188,309
179	7.090.507,741	709.187,510
180	7.090.503,298	709.188,485
181	7.090.503,242	709.187,687
182	7.090.491,343	709.188,954
183	7.090.491,303	709.188,155
184	7.090.486,661	709.189,138
185	7.090.486,612	709.188,339
186	7.090.479,805	709.189,407
187	7.090.479,768	709.188,707
188	7.090.475,317	709.189,592
189	7.090.475,282	709.188,843
190	7.090.469,872	709.189,928
191	7.090.469,825	709.189,179
192	7.090.463,725	709.190,307
193	7.090.463,666	709.189,516
194	7.090.430,305	709.192,367
195	7.090.430,239	709.191,670
196	7.090.425,587	709.192,658
197	7.090.425,539	709.191,910
198	7.090.398,814	709.194,417
199	7.090.398,782	709.193,668
200	7.090.394,122	709.194,727
201	7.090.394,072	709.193,978
202	7.090.384,220	709.195,368
203	7.090.384,171	709.194,631
204	7.090.380,263	709.195,640
205	7.090.380,212	709.194,830
206	7.090.364,816	709.196,585
207	7.090.364,763	709.195,883
208	7.090.360,344	709.196,833
209	7.090.345,665	709.197,664
210	7.090.341,186	709.197,911

Ponto	N (m)	E (m)
211	7.090.309,428	709.199,763
212	7.090.305,266	709.200,120
213	7.090.303,352	709.200,305
214	7.090.287,990	709.201,623
215	7.090.287,921	709.200,826
216	7.090.278,704	709.202,431
217	7.090.278,634	709.201,634
218	7.090.274,242	709.202,820
219	7.090.274,172	709.202,022
220	7.090.271,861	709.203,026
221	7.090.271,792	709.202,229
222	7.090.267,127	709.203,438
223	7.090.267,053	709.202,642
224	7.090.262,684	709.203,154
225	7.090.262,785	709.202,361
226	7.090.239,039	709.216,002
227	7.090.235,216	709.212,862
228	7.090.216,332	709.212,255
229	7.090.207,477	709.212,348
230	7.090.182,072	709.212,835
231	7.090.177,593	709.212,919
232	7.090.175,786	709.212,953
233	7.090.171,308	709.213,037
234	7.090.139,272	709.213,638
235	7.090.132,047	709.213,774
236	7.090.082,511	709.216,308
237	7.090.078,037	709.216,624
238	7.090.059,369	709.217,565
239	7.090.054,894	709.217,774
240	7.090.041,825	709.218,383
241	7.090.037,777	709.218,568
242	7.090.027,278	709.219,061
243	7.090.023,242	709.219,255
244	7.089.900,634	709.225,622
245	7.089.900,706	709.226,165
246	7.089.828,697	709.237,547
247	7.089.828,721	709.238,347
248	7.089.824,176	709.238,481
249	7.089.824,147	709.237,676
250	7.089.817,845	709.238,667
251	7.089.817,821	709.237,868
252	7.089.814,233	709.238,574
253	7.089.814,209	709.237,971
254	7.089.808,722	709.238,736
255	7.089.808,702	709.238,137
256	7.089.802,154	709.238,930
257	7.089.802,131	709.238,330
258	7.089.792,338	709.239,482
259	7.089.792,209	709.238,693
260	7.089.789,871	709.239,457
261	7.089.787,675	709.241,102
262	7.089.786,551	709.242,618
263	7.089.787,246	709.243,015
264	7.089.785,500	709.246,827
265	7.089.786,300	709.246,803
266	7.090.243,637	709.197,700
267	7.090.239,687	709.204,033
268	7.090.214,888	709.206,123
269	7.090.210,593	709.206,205
270	7.090.191,501	709.206,579
271	7.090.183,760	709.206,802
272	7.090.162,872	709.207,199
273	7.090.158,387	709.207,279
274	7.090.156,632	709.207,312
275	7.090.153,093	709.207,378
276	7.090.127,204	709.207,869
277	7.090.122,219	709.207,957
278	7.090.112,111	709.208,173
279	7.090.106,393	709.208,578
280	7.090.072,574	709.210,943

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA HAROLD C. MIERS

Ponto	N (m)	E (m)
1	7.090.687.273	708.819.250
2	7.090.687.299	708.819.799
3	7.090.673.342	708.820.481
4	7.090.673.315	708.819.937
5	7.090.668.970	708.820.145
6	7.090.668.997	708.820.694
7	7.090.658.273	708.821.218
8	7.090.658.246	708.820.668
9	7.090.647.254	708.821.799
10	7.090.647.225	708.821.208
11	7.090.626.512	708.822.783
12	7.090.626.477	708.822.134
13	7.090.686.885	708.811.319
14	7.090.683.293	708.811.500
15	7.090.678.595	708.811.724
16	7.090.670.423	708.812.123
17	7.090.666.177	708.812.330
18	7.090.650.456	708.813.101
19	7.090.646.003	708.813.319
20	7.090.632.625	708.813.989
21	7.090.628.721	708.814.184
22	7.090.626.056	708.814.318
23	7.090.603.685	708.823.128
24	7.090.597.743	708.823.376
25	7.090.592.567	708.823.566
26	7.090.590.900	708.823.635
27	7.090.587.135	708.823.792
28	7.090.582.606	708.823.983
29	7.090.574.342	708.824.341
30	7.090.565.671	708.824.716
31	7.090.561.273	708.824.907
32	7.090.543.977	708.825.660
33	7.090.535.416	708.826.022
34	7.090.525.864	708.826.436
35	7.090.521.984	708.826.608
36	7.090.519.691	708.826.707
37	7.090.509.576	708.827.146
38	7.090.500.039	708.827.559
39	7.090.495.310	708.827.758
40	7.090.480.320	708.828.412
41	7.090.476.455	708.828.580
42	7.090.603.448	708.815.292
43	7.090.597.166	708.815.479
44	7.090.593.148	708.815.666
45	7.090.587.176	708.815.977
46	7.090.582.666	708.816.215
47	7.090.575.986	708.816.493
48	7.090.571.376	708.816.688
49	7.090.555.307	708.817.369
50	7.090.551.465	708.817.531
51	7.090.543.544	708.817.866
52	7.090.535.404	708.818.212
53	7.090.519.512	708.818.836
54	7.090.515.903	708.819.027
55	7.090.507.754	708.819.355
56	7.090.499.707	708.819.662
57	7.090.489.035	708.820.081
58	7.090.485.235	708.820.230
59	7.090.475.874	708.820.598
60	7.090.452.462	708.829.579
61	7.090.439.765	708.830.347
62	7.090.435.761	708.830.600
63	7.090.427.567	708.830.880
64	7.090.400.500	708.832.133
65	7.090.380.023	708.833.082
66	7.090.376.084	708.833.219
67	7.090.367.490	708.833.568
68	7.090.353.325	708.834.054
69	7.090.349.344	708.834.256
70	7.090.341.189	708.834.657

Ponto	N (m)	E (m)
71	7.090.336.178	708.834.904
72	7.090.330.731	708.835.172
73	7.090.325.735	708.835.419
74	7.090.451.385	708.821.881
75	7.090.436.374	708.822.571
76	7.090.432.562	708.822.747
77	7.090.416.379	708.823.502
78	7.090.412.739	708.823.670
79	7.090.405.328	708.824.011
80	7.090.396.960	708.824.396
81	7.090.389.102	708.824.757
82	7.090.385.443	708.824.925
83	7.090.370.264	708.825.587
84	7.090.360.805	708.825.976
85	7.090.339.772	708.826.840
86	7.090.335.630	708.826.990
87	7.090.333.269	708.827.069
88	7.090.332.963	708.827.690
89	7.090.325.969	708.828.080
90	7.090.304.558	708.837.275
91	7.090.300.935	708.836.761
92	7.090.290.030	708.836.839
93	7.090.284.639	708.837.051
94	7.090.275.543	708.837.433
95	7.090.269.748	708.837.661
96	7.090.261.320	708.837.961
97	7.090.257.251	708.838.121
98	7.090.233.583	708.839.294
99	7.090.304.091	708.828.021
100	7.090.296.928	708.828.585
101	7.090.292.951	708.828.760
102	7.090.274.534	708.829.568
103	7.090.263.642	708.829.998
104	7.090.249.352	708.830.618
105	7.090.245.423	708.830.779
106	7.090.231.776	708.831.461
107	7.090.229.978	708.831.510
108	7.090.226.700	708.829.171
109	7.090.225.320	708.826.232
110	7.090.225.264	708.824.394
111	7.090.215.236	708.824.435
112	7.090.215.313	708.826.201
113	7.090.214.463	708.829.425
114	7.090.209.487	708.832.652
115	7.090.207.519	708.832.749
116	7.090.197.049	708.833.269
117	7.090.189.775	708.833.629
118	7.090.184.769	708.833.883
119	7.090.180.365	708.834.097
120	7.090.172.533	708.834.486
121	7.090.168.356	708.834.659
122	7.090.160.696	708.834.977
123	7.090.156.182	708.835.163
124	7.090.142.502	708.835.729
125	7.090.132.419	708.836.144
126	7.090.115.382	708.836.813
127	7.090.109.345	708.837.054
128	7.090.095.461	708.837.689
129	7.090.084.348	708.838.225
130	7.090.083.848	708.838.249
131	7.090.082.846	708.838.298
132	7.090.082.347	708.838.321
133	7.090.075.525	708.838.563
134	7.090.207.919	708.840.652
135	7.090.181.285	708.841.905
136	7.090.177.406	708.842.083
137	7.090.167.577	708.842.534
138	7.090.163.567	708.842.718
139	7.090.145.790	708.843.473
140	7.090.136.912	708.843.849

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA HEINZI ZIETZ

Ponto	N (m)	E (m)
1	7089894,201	708360,897
2	7089895,119	708380,887
3	7089895,307	708384,860
4	7089895,447	708387,768
5	7089895,617	708391,736
6	7089895,947	708399,711
7	7089897,093	708423,757
8	7089897,312	708428,529
9	7089897,453	708432,510
10	7089898,185	708450,308
11	7089898,364	708454,275
12	7089898,666	708460,552
13	7089886,050	708360,791
14	7089886,284	708366,109
15	7089887,177	708385,768
16	7089887,610	708396,778
17	7089887,800	708400,005
18	7089889,019	708424,674
19	7089889,127	708426,985
20	7089889,538	708436,262
21	7089889,828	708441,586
22	7089889,996	708445,554
23	7089890,682	708460,890
24	7089891,635	708483,740
25	7089893,121	708519,742
26	7089899,750	708483,562
27	7089900,298	708497,427
28	7089900,464	708501,375
29	7089900,552	708503,167
30	7089900,724	708507,115
31	7089900,814	708508,680
32	7089900,969	708512,649
33	7089901,220	708518,494
34	7089902,243	708542,504
35	7089903,877	708579,070
36	7089903,974	708581,168
37	7089906,184	708585,529
38	7089908,137	708586,872
39	7089910,208	708587,216
40	7089894,124	708543,684
41	7089894,616	708554,835
42	7089894,787	708558,801
43	7089894,983	708562,173
44	7089895,221	708567,308
45	7089895,705	708581,071
46	7089895,789	708582,869
47	7089895,858	708584,367
48	7089895,913	708585,559
49	7089910,414	708595,386
50	7089908,562	708595,705
51	7089906,983	708596,521
52	7089904,724	708601,007
53	7089904,806	708602,792
54	7089904,992	708606,630
55	7089905,449	708618,471
56	7089905,602	708622,435
57	7089905,959	708630,009
58	7089906,121	708633,961
59	7089906,256	708635,790
60	7089906,439	708639,780
61	7089906,998	708653,058
62	7089907,160	708657,041
63	7089907,308	708658,760
64	7089907,443	708662,749
65	7089907,973	708674,205
66	7089908,154	708678,173
67	7089908,857	708693,261
68	7089908,952	708695,303
69	7089911,247	708699,424
70	7089913,494	708701,038

Ponto	N (m)	E (m)
71	7089915,741	708701,878
72	7089896,533	708597,690
73	7089896,735	708599,478
74	7089896,794	708600,977
75	7089896,825	708602,820
76	7089896,956	708605,923
77	7089897,142	708610,444
78	7089897,332	708614,412
79	7089897,440	708617,345
80	7089897,861	708626,845
81	7089898,121	708632,720
82	7089898,320	708637,220
83	7089898,790	708647,813
84	7089898,984	708652,215
85	7089899,221	708656,511
86	7089899,747	708669,027
87	7089899,991	708672,959
88	7089900,740	708690,124
89	7089900,816	708695,000
90	7089916,140	708709,737
91	7089911,241	708711,244
92	7089909,817	708715,906
93	7089909,919	708718,429
94	7089910,718	708718,398
95	7089910,881	708742,834
96	7089911,670	708742,792
97	7089911,818	708746,568
98	7089911,018	708746,597
99	7089912,202	708756,411
100	7089911,411	708756,440
101	7089912,348	708760,154
102	7089911,553	708760,182
103	7089912,584	708766,195
104	7089911,813	708766,237
105	7089911,865	708768,295
106	7089913,451	708771,902
107	7089916,368	708773,226
108	7089918,563	708773,197
109	7089901,760	708716,806
110	7089901,066	708716,885
111	7089903,198	708752,674
112	7089902,518	708752,701
113	7089903,443	708758,773
114	7089902,752	708758,801
115	7089903,715	708766,706
116	7089903,070	708766,716
117	7089903,796	708768,785
118	7089902,495	708772,811
119	7089898,048	708774,619
120	7089896,034	708774,549
121	7089919,004	708781,198
122	7089916,866	708781,352
123	7089914,203	708782,910
124	7089913,089	708790,188
125	7089913,588	708790,169
126	7089913,414	708798,385
127	7089913,920	708798,366
128	7089914,225	708806,198
129	7089913,725	708806,217
130	7089914,447	708811,806
131	7089913,948	708811,837
132	7089914,750	708815,765
133	7089914,105	708815,801
134	7089915,020	708821,481
135	7089914,374	708821,513
136	7089915,324	708828,147
137	7089914,623	708828,179
138	7089915,801	708838,608
139	7089915,012	708838,633
140	7089915,095	708840,731

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA HERMINIO DAGNONI

Ponto	N (m)	E (m)
1	7089637,262	709162,693
2	7089635,187	709162,916
3	7089632,810	709164,301
4	7089631,467	709167,371
5	7089631,507	709169,725
6	7089631,810	709180,848
7	7089631,917	709184,918
8	7089632,120	709192,228
9	7089632,216	709195,738
10	7089632,271	709197,700
11	7089632,364	709201,188
12	7089632,386	709201,973
13	7089632,559	709208,545
14	7089632,781	709216,489
15	7089632,892	709220,554
16	7089633,186	709231,347
17	7089633,303	709235,655
18	7089633,641	709247,974
19	7089633,900	709257,472
20	7089634,288	709271,842
21	7089634,396	709275,825
22	7089634,630	709284,257
23	7089634,734	709288,241
24	7089634,974	709296,897
25	7089635,082	709300,881
26	7089635,280	709308,252
27	7089635,388	709312,240
28	7089635,627	709320,873
29	7089635,731	709324,857
30	7089635,955	709332,925
31	7089636,064	709336,913
32	7089636,359	709347,768
33	7089636,416	709349,955
34	7089638,278	709354,385
35	7089642,537	709356,043
36	7089644,745	709356,047
37	7089616,224	709163,434
38	7089619,715	709164,603
39	7089621,468	709166,095
40	7089621,731	709166,407
41	7089622,757	709168,045
42	7089623,499	709170,646
43	7089624,255	709198,392
44	7089624,401	709202,668
45	7089625,139	709229,611
46	7089625,251	709233,893
47	7089625,447	709240,845
48	7089625,594	709246,469
49	7089625,699	709250,242
50	7089625,764	709252,630
51	7089626,011	709261,486
52	7089626,217	709269,057
53	7089626,654	709285,018
54	7089626,893	709294,137
55	7089627,271	709308,030
56	7089627,390	709312,436
57	7089627,436	709314,095
58	7089627,549	709318,268
59	7089628,070	709337,214
60	7089628,178	709341,198
61	7089628,364	709348,157
62	7089628,417	709350,108
63	7089627,222	709354,567
64	7089623,777	709356,721
65	7089621,609	709356,981
66	7089644,137	709363,906
67	7089642,114	709363,974
68	7089637,262	709368,003
69	7089637,122	709370,159
70	7089637,097	709372,133

Ponto	N (m)	E (m)
71	7089637,487	709385,239
72	7089637,598	709389,302
73	7089637,849	709397,563
74	7089637,961	709401,453
75	7089638,714	709426,634
76	7089638,839	709430,970
77	7089638,950	709434,697
78	7089639,091	709439,298
79	7089639,164	709441,749
80	7089639,283	709445,771
83	7089639,955	709470,696
84	7089640,033	709472,827
85	7089641,128	709475,452
86	7089646,100	709478,580
87	7089648,595	709478,598
88	7089622,191	709364,806
89	7089623,971	709364,739
90	7089627,617	709366,652
91	7089629,248	709371,006
92	7089629,294	709372,774
93	7089629,459	709379,046
94	7089629,584	709383,793
95	7089629,781	709391,261
96	7089630,034	709400,902
97	7089630,250	709409,084
98	7089630,368	709413,576
99	7089630,819	709430,658
100	7089631,028	709438,508
101	7089631,587	709459,523
102	7089631,705	709464,015
103	7089631,913	709471,044
104	7089631,984	709473,160
105	7089631,783	709475,074
106	7089626,199	709479,181
107	7089624,265	709479,264
108	7089624,227	709487,327
109	7089626,613	709487,226
110	7089627,809	709487,301
111	7089632,175	709490,941
112	7089632,609	709493,998
113	7089632,010	709494,026
114	7089632,328	709503,011
115	7089632,928	709502,994
116	7089633,032	709506,694
117	7089632,433	709506,711
118	7089632,618	709513,252
119	7089633,225	709513,236
120	7089633,340	709517,275
121	7089632,732	709517,292
122	7089632,965	709525,510
123	7089633,565	709525,503
124	7089633,662	709530,013
125	7089633,093	709530,003
126	7089633,719	709530,910
127	7089633,119	709530,927
128	7089633,835	709535,072
129	7089633,237	709535,089
130	7089634,724	709566,066
131	7089634,115	709566,083
132	7089634,849	709570,858
133	7089634,351	709570,872
134	7089635,279	709585,617
135	7089634,769	709585,632
136	7089635,414	709590,771
137	7089634,915	709590,784
138	7089635,371	709598,077
139	7089635,121	709598,084
140	7089635,731	709601,940
141	7089635,131	709601,957
142	7089636,119	709615,626

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA HILDO NOVAES

Ponto	N (m)	E (m)
1	7090452,611	708406,832
2	7090452,730	708410,691
3	7090453,245	708428,158
4	7090459,749	708596,869
5	7090460,160	708599,590
6	7090465,876	708604,809
7	7090468,652	708605,058
8	7090444,296	708402,625
9	7090443,749	708402,746
10	7090444,118	708410,650
11	7090444,746	708410,620
12	7090445,357	708428,065
13	7090444,655	708428,088
14	7090451,021	708597,859
15	7090451,721	708597,843
16	7090451,447	708600,130
17	7090445,857	708605,836
18	7090443,500	708606,165
19	7090443,729	708613,953
20	7090445,717	708614,030
21	7090451,170	708617,460
22	7090452,191	708619,921
23	7090452,244	708620,190
24	7090452,436	708623,876
25	7090452,528	708626,311
26	7090452,688	708630,318
27	7090453,123	708640,388
28	7090453,565	708650,310
29	7090454,357	708669,358
30	7090454,438	708671,451
31	7090449,669	708677,602
32	7090447,534	708677,688
33	7090469,857	708612,997
34	7090468,929	708613,080
35	7090466,106	708613,407
36	7090460,675	708619,073
37	7090460,558	708622,031
38	7090461,048	708622,015
39	7090461,686	708638,993
40	7090461,150	708639,014
41	7090461,293	708644,151
42	7090461,876	708644,133
43	7090462,051	708648,847
44	7090461,526	708648,866
45	7090461,708	708653,757
46	7090462,232	708653,733
47	7090462,803	708669,225
48	7090462,390	708669,275
49	7090462,644	708671,223
50	7090467,371	708676,512
51	7090469,985	708676,777
52	7090446,668	708685,836
53	7090449,570	708686,239
54	7090452,562	708688,042
55	7090454,809	708691,931
56	7090455,029	708693,465
57	7090455,059	708694,139
58	7090454,253	708694,176
59	7090454,631	708702,366
60	7090455,414	708702,336
61	7090455,610	708706,591
62	7090454,825	708706,643
63	7090455,505	708721,653
64	7090456,305	708721,617
65	7090456,549	708727,249
66	7090455,761	708727,302
67	7090456,398	708741,357
68	7090457,197	708741,317
69	7090470,625	708684,739
70	7090467,763	708685,419

Ponto	N (m)	E (m)
71	7090465,098	708687,343
72	7090463,163	708691,181
73	7090463,033	708693,378
74	7090463,832	708693,342
75	7090464,640	708713,677
76	7090463,954	708713,710
77	7090464,161	708718,278
78	7090464,821	708718,248
79	7090465,103	708725,350
80	7090464,483	708725,378
81	7090464,679	708729,691
82	7090465,275	708729,669
83	7090465,699	708740,343
84	7090465,163	708740,368
85	7090465,888	708764,299
86	7090466,646	708790,259
87	7090466,790	708794,775
88	7090467,380	708812,780
89	7090467,450	708815,016
90	7090474,023	708820,671
91	7090475,792	708820,601
92	7090457,794	708764,831
93	7090457,244	708764,947
94	7090457,674	708777,272
95	7090458,421	708777,249
96	7090458,552	708781,453
97	7090457,821	708781,472
98	7090457,898	708783,695
99	7090458,622	708783,689
100	7090458,816	708789,772
101	7090458,111	708789,794
102	7090458,285	708794,803
103	7090458,972	708794,779
104	7090459,236	708803,204
105	7090459,489	708812,944
106	7090459,553	708815,395
107	7090453,889	708821,763
108	7090451,392	708821,881
109	7090452,471	708829,804
110	7090454,269	708829,724
111	7090460,452	708835,631
112	7090460,584	708837,505
113	7090462,541	708883,617
114	7090476,444	708828,580
115	7090473,184	708829,125
116	7090468,893	708834,781
117	7090468,647	708837,139
118	7090469,505	708858,506
119	7090470,245	708879,416
120	7090470,373	708882,684
121	7090470,598	708885,421
122	7090476,482	708890,490
123	7090479,078	708890,793
124	7090479,286	708898,272
125	7090476,765	708898,453
126	7090471,221	708904,801
127	7090471,299	708907,173
128	7090471,551	708914,860
129	7090471,699	708919,398
130	7090471,870	708923,804
131	7090472,081	708929,287
132	7090472,444	708939,457
133	7090472,572	708944,392
134	7090472,947	708954,354
135	7090463,394	708907,259
136	7090463,927	708923,627
137	7090464,083	708928,035
138	7090464,491	708939,574
139	7090464,623	708943,411
140	7090465,036	708954,985

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA HILDO NOVAES

	Ponto	N (m)	E (m)
1	141	7090482,523	708970,660
2	142	7090479,769	708970,832
3	143	7090475,871	708972,991
4	144	7090474,056	708977,189
5	145	7090474,116	708979,772
6	146	7090475,413	709011,905
7	147	7090475,511	709016,337
8	148	7090475,755	709026,746
9	149	7090475,859	709031,258
10	150	7090475,862	709031,411
11	151	7090475,984	709033,488
12	152	7090478,192	709037,510
13	153	7090483,279	709039,305
14	154	7090485,172	709039,198
15	155	7090457,254	708971,789
16	156	7090459,851	708971,954
17	157	7090463,117	708973,527
18	158	7090465,799	708977,499
19	159	7090466,095	708979,423
20	160	7090466,119	708980,009
21	161	7090466,571	708990,328
22	162	7090466,758	708995,163
23	163	7090467,089	709002,832
24	164	7090467,359	709009,636
25	165	7090467,792	709028,428
26	166	7090467,840	709030,527
27	167	7090467,877	709032,126
28	168	7090462,958	709039,694
29	169	7090460,309	709040,298
30	170	7090460,740	709048,287
31	171	7090462,786	709048,177
32	172	7090467,430	709049,793
33	173	7090469,298	709053,745
34	174	7090469,314	709054,130
35	175	7090469,324	709055,726
36	176	7090469,346	709061,331
37	177	7090469,395	709065,353
38	178	7090469,455	709067,384
39	179	7090469,561	709071,368
40	180	7090469,847	709080,242
41	181	7090470,025	709084,378
42	182	7090471,307	709118,250
43	183	7090470,939	709120,712
44	184	7090470,014	709122,684
45	185	7090468,235	709124,628
46	186	7090463,569	709126,326
47	187	7090485,624	709047,186
48	188	7090484,869	709047,228
49	189	7090482,688	709047,661
50	190	7090479,493	709049,733
51	191	7090477,319	709055,251
52	192	7090477,324	709056,367
53	193	7090477,335	709058,866
54	194	7090477,870	709058,864
55	195	7090478,340	709074,107
56	196	7090477,640	709074,138
57	197	7090477,986	709083,761
58	198	7090478,686	709083,736
59	199	7090479,956	709116,818
60	200	7090479,257	709116,845
61	201	7090479,298	709117,928
62	202	7090481,849	709123,483
63	203	7090485,006	709125,287
64	204	7090487,579	709125,615

	Ponto	N (m)	E (m)
	211	7090467,447	708790,232
	212	7090467,596	708794,749
	213	7090468,180	708812,755
	214	7090469,446	708837,104
	215	7090470,306	708858,479
	216	7090472,098	708907,147
	217	7090472,350	708914,833
	218	7090472,499	708919,372
	219	7090472,669	708923,773
	220	7090472,882	708929,292
	221	7090473,244	708939,430
	222	7090473,410	708944,364
	223	7090473,747	708954,336
	224	7090474,916	708979,738
	225	7090476,213	709011,887
	226	7090476,315	709016,319
	227	7090476,555	709026,727
	228	7090479,580	709118,235
	229	7090469,203	709084,410
	230	7090469,044	709080,273
	231	7090468,760	709071,390
	232	7090468,544	709061,334
	233	7090468,520	709055,729
	234	7090466,992	709028,446
	235	7090466,560	709009,665
	236	7090466,282	709002,867
	237	7090465,959	708995,192
	238	7090465,754	708990,334
	239	7090465,320	708980,043
	240	7090464,237	708955,022
	241	7090463,827	708943,443
	242	7090463,692	708939,602
	243	7090463,284	708928,064
	244	7090463,128	708923,650
	245	7090462,569	708907,287
	246	7090461,742	708883,649
	247	7090460,762	708859,350
	248	7090453,556	708669,391
	249	7090452,764	708650,343
	250	7090452,347	708640,423
	251	7090451,900	708630,353
	252	7090451,726	708626,341
	253	7090451,635	708623,906

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA JOÃO SANCHO MOREIRA

Ponto	N (m)	E (m)
1	7090287,029	708465,583
2	7090276,085	708465,859
3	7090271,753	708466,044
4	7090258,410	708466,502
5	7090253,369	708466,668
6	7090246,484	708466,961
7	7090238,636	708467,228
8	7090234,146	708467,327
9	7090230,280	708467,455
10	7090226,562	708467,639
11	7090220,093	708467,798
12	7090218,979	708467,841
13	7090286,451	708458,223
14	7090286,439	708457,649
15	7090279,260	708457,800
16	7090267,492	708458,041
17	7090267,506	708458,660
18	7090262,953	708458,766
19	7090262,940	708458,134
20	7090261,290	708458,168
21	7090261,303	708458,812
22	7090255,966	708458,935
23	7090255,952	708458,277
24	7090252,909	708458,340
25	7090252,922	708459,013
26	7090248,750	708459,110
27	7090248,736	708458,425
28	7090246,174	708458,478
29	7090246,189	708459,176
30	7090240,991	708459,283
31	7090240,977	708458,584
32	7090234,374	708458,719
33	7090234,389	708459,462
34	7090230,311	708459,561
35	7090230,300	708458,803
36	7090218,802	708459,062
37	7090218,734	708459,825
38	7090193,552	708468,576
39	7090187,784	708468,746
40	7090179,705	708468,952
41	7090174,154	708469,059
42	7090170,146	708469,149
43	7090158,814	708469,396
44	7090149,321	708469,608
45	7090139,771	708469,811
46	7090133,687	708469,935
47	7090132,628	708469,965
48	7090128,503	708470,053
49	7090123,352	708470,163
50	7090119,457	708470,241
51	7090113,732	708470,369
52	7090110,085	708470,447
53	7090104,196	708470,573
54	7090100,296	708470,656
55	7090079,594	708471,050
56	7090074,374	708471,210
57	7090067,499	708471,359
58	7090063,101	708471,452
59	7090193,529	708460,379
60	7090181,920	708460,916
61	7090177,877	708460,987
62	7090173,252	708461,086
63	7090167,929	708461,200
64	7090156,963	708461,437
65	7090152,945	708461,526
66	7090152,441	708461,540
67	7090148,687	708461,626
68	7090143,285	708461,749
69	7090138,261	708461,861
70	7090126,921	708462,111

Ponto	N (m)	E (m)
71	7090122,471	708462,188
72	7090115,898	708462,308
73	7090108,139	708462,451
74	7090097,689	708462,644
75	7090093,081	708462,733
76	7090092,127	708462,756
77	7090088,058	708462,830
78	7090076,328	708463,056
79	7090072,237	708463,151
80	7090063,289	708463,397
81	7090036,939	708472,110
82	7090020,880	708472,533
83	7090016,844	708472,635
84	7090015,852	708472,665
85	7090011,816	708472,771
86	7090000,646	708473,065
87	7089994,963	708473,213
88	7089987,091	708473,422
89	7089979,995	708473,609
90	7089967,403	708473,940
91	7089962,945	708474,053
92	7089952,259	708474,338
93	7089946,752	708474,478
94	7089935,077	708474,790
95	7089919,476	708475,183
96	7089907,734	708475,705
97	7089905,299	708476,560
98	7089899,686	708481,643
99	7089899,742	708483,614
100	7090036,215	708463,939
101	7090036,202	708463,353
102	7090025,800	708463,704
103	7090025,817	708464,218
104	7090021,836	708464,334
105	7090021,824	708463,836
106	7090007,910	708464,297
107	7090007,923	708464,693
108	7090001,063	708464,885
109	7089993,051	708465,095
110	7089989,436	708465,191
111	7089982,590	708465,367
112	7089978,325	708465,485
113	7089961,559	708465,918
114	7089957,448	708466,033
115	7089943,982	708466,409
116	7089935,999	708466,640
117	7089935,988	708466,067
118	7089921,716	708466,361
119	7089921,731	708467,055
120	7089918,122	708467,158
121	7089917,653	708467,212
122	7089914,069	708467,277
123	7089914,053	708466,518
124	7089909,084	708466,621
125	7089907,258	708466,510
126	7089907,119	708467,313
127	7089905,020	708466,743
128	7089899,052	708462,216
129	7089898,662	708460,504
130	7089891,623	708483,736
131	7089891,549	708481,937
132	7089891,222	708480,448
133	7089890,003	708479,123
134	7089889,469	708479,726
135	7089887,503	708478,568
136	7089887,895	708477,870
137	7089881,387	708476,220
138	7089881,400	708476,782
139	7089870,674	708477,019
140	7089870,661	708476,440

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA JOAQUIM GIRARDI

Ponto	N (m)	E (m)
1	7090787,098	709545,224
2	7090785,779	709542,597
3	7090785,386	709542,267
4	7090784,084	709541,095
5	7090782,500	709540,185
6	7090780,804	709539,582
7	7090764,698	709539,675
8	7090758,749	709539,843
9	7090749,225	709540,182
10	7090743,573	709540,389
11	7090708,488	709541,596
12	7090701,330	709541,822
13	7090656,093	709543,363
14	7090651,325	709543,523
15	7090647,581	709543,657
16	7090642,168	709543,853
17	7090623,007	709544,541
18	7090611,810	709544,881
19	7090602,085	709545,177
20	7090597,478	709545,317
21	7090576,807	709546,013
22	7090568,443	709546,286
23	7090545,081	709547,082
24	7090539,877	709547,257
25	7090526,744	709547,700
26	7090522,430	709547,840
27	7090511,583	709548,213
28	7090507,355	709548,356
29	7090502,080	709548,535
30	7090786,198	709521,565
31	7090785,229	709525,161
32	7090784,761	709525,837
33	7090783,508	709527,130
34	7090780,688	709529,171
35	7090753,996	709532,178
36	7090747,541	709532,405
37	7090735,788	709532,811
38	7090706,382	709533,756
39	7090649,100	709535,393
40	7090629,796	709536,131
41	7090607,938	709537,077
42	7090600,202	709537,311
43	7090582,060	709537,910
44	7090577,281	709538,078
45	7090568,844	709538,373
46	7090559,578	709538,698
47	7090543,249	709539,280
48	7090535,093	709539,557
49	7090524,731	709539,835
50	7090519,899	709539,986
51	7090501,828	709540,471
52	7090479,535	709549,427
53	7090465,421	709549,741
54	7090461,187	709549,883
55	7090432,926	709550,865
56	7090427,858	709551,040
57	7090420,449	709551,309
58	7090416,241	709551,435
59	7090406,729	709551,721
60	7090403,140	709551,825
61	7090395,348	709552,073
62	7090387,633	709552,329
63	7090380,725	709552,566
64	7090372,901	709552,837
65	7090361,566	709553,209
66	7090357,965	709553,327
67	7090350,478	709553,573
68	7090346,381	709553,706
69	7090344,583	709553,767
70	7090340,732	709553,896

Ponto	N (m)	E (m)
71	7090332,646	709554,172
72	7090326,598	709554,375
73	7090307,627	709555,013
74	7090298,893	709555,296
75	7090287,040	709555,695
76	7090266,166	709556,396
77	7090262,416	709556,562
78	7090258,463	709556,677
79	7090485,140	709536,638
80	7090481,148	709540,034
81	7090471,885	709541,554
82	7090467,241	709541,707
83	7090451,662	709542,220
84	7090447,125	709542,369
85	7090428,386	709542,986
86	7090424,121	709543,158
87	7090421,339	709543,257
88	7090415,787	709543,482
89	7090406,828	709543,851
90	7090400,242	709544,110
91	7090389,770	709544,458
92	7090385,271	709544,601
93	7090379,420	709544,797
94	7090374,901	709544,940
95	7090365,461	709545,259
96	7090356,926	709545,529
97	7090350,000	709545,683
98	7090327,414	709546,462
99	7090317,308	709546,857
100	7090305,823	709547,295
101	7090302,075	709547,432
102	7090291,689	709547,824
103	7090286,941	709548,003
104	7090280,487	709548,246
105	7090275,683	709548,427
106	7090259,517	709549,030
107	7090233,189	709557,806
108	7090225,853	709557,916
109	7090221,993	709558,019
110	7090213,093	709558,301
111	7090208,811	709558,437
112	7090186,010	709559,189
113	7090181,443	709559,339
114	7090169,069	709559,734
115	7090164,631	709559,876
116	7090161,206	709559,995
117	7090156,572	709560,143
118	7090137,431	709560,890
119	7090133,530	709560,999
120	7090087,884	709562,532
121	7090085,786	709562,602
122	7090084,286	709562,652
123	7090082,187	709562,724
124	7090057,085	709563,574
125	7090049,340	709563,804
126	7090036,446	709564,189
127	7090032,464	709564,303
128	7090029,216	709564,402
129	7090024,632	709564,568
130	7090021,074	709564,705
131	7090016,811	709564,860
132	7089988,786	709565,909
133	7089984,694	709566,048
134	7089983,098	709566,101
135	7089979,319	709566,225
136	7089961,407	709566,826
137	7089956,954	709567,025
138	7090232,898	709549,003
139	7090230,328	709549,524
140	7090230,299	709548,819

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA MANOEL MAURÍCIO FILHO

Ponto	N (m)	E (m)
1	7089883,211	709665,259
2	7089882,691	709665,296
3	7089880,933	709665,682
4	7089877,681	709667,781
5	7089875,652	709671,791
6	7089875,523	709673,586
7	7089876,509	709673,023
8	7089877,124	709696,682
9	7089876,123	709696,682
10	7089876,217	709700,439
11	7089877,221	709700,413
12	7089877,327	709704,288
13	7089876,327	709704,314
14	7089876,415	709708,045
15	7089877,418	709708,014
16	7089877,694	709718,627
17	7089876,695	709718,653
18	7089876,791	709722,379
19	7089877,791	709722,353
20	7089878,036	709731,781
21	7089877,037	709731,807
22	7089877,445	709747,524
23	7089878,446	709747,547
24	7089878,880	709764,256
25	7089877,881	709764,282
26	7089877,978	709768,014
27	7089878,977	709767,988
28	7089879,442	709785,864
29	7089878,443	709785,878
30	7089878,546	709789,873
31	7089879,546	709789,847
32	7089879,624	709792,840
33	7089878,618	709792,858
34	7089878,695	709797,154
35	7089879,695	709797,136
36	7089879,891	709808,079
37	7089878,876	709808,079
38	7089878,966	709812,266
39	7089879,966	709812,248
40	7089880,139	709821,945
41	7089879,136	709821,963
42	7089879,247	709826,427
43	7089880,219	709826,410
44	7089880,407	709836,882
45	7089879,407	709836,900
46	7089879,500	709842,079
47	7089880,499	709842,061
48	7089880,659	709850,949
49	7089879,734	709850,498
50	7089880,223	709852,230
51	7089882,125	709855,009
52	7089886,118	709857,060
53	7089887,913	709857,198
54	7089857,548	709666,775
55	7089857,523	709667,575
56	7089860,540	709668,227
57	7089863,008	709670,082
58	7089863,172	709669,086
59	7089864,302	709670,488
60	7089864,983	709671,824
61	7089865,455	709673,561
62	7089864,508	709673,143
63	7089865,278	709702,754
64	7089866,277	709702,728
65	7089866,457	709709,629
66	7089865,457	709709,655
67	7089865,857	709725,028
68	7089866,856	709725,002
69	7089866,966	709729,223
70	7089865,966	709729,249

Ponto	N (m)	E (m)
71	7089866,130	709735,531
72	7089867,129	709735,505
73	7089867,224	709739,152
74	7089866,224	709739,174
75	7089866,474	709748,758
76	7089867,473	709748,732
77	7089867,592	709753,318
78	7089866,593	709753,344
79	7089866,852	709763,336
80	7089867,852	709763,310
81	7089867,957	709767,486
82	7089866,961	709767,512
83	7089867,227	709777,758
84	7089868,228	709777,732
85	7089868,335	709781,872
86	7089867,335	709781,898
87	7089867,636	709793,929
88	7089868,636	709793,911
89	7089868,717	709798,463
90	7089867,717	709798,481
91	7089867,926	709810,153
92	7089868,925	709810,101
93	7089869,062	709814,015
94	7089867,996	709814,033
95	7089868,144	709822,302
96	7089869,144	709822,285
97	7089869,231	709827,138
98	7089868,231	709827,155
99	7089868,436	709838,597
100	7089869,377	709838,580
101	7089869,589	709847,128
102	7089868,589	709847,146
103	7089868,653	709850,751
104	7089869,635	709849,730
105	7089869,493	709851,996
106	7089867,405	709855,992
107	7089864,360	709857,964
108	7089861,715	709858,439
109	7089888,783	709867,173
110	7089886,956	709867,249
111	7089886,751	709867,249
112	7089882,610	709869,128
113	7089880,984	709873,387
114	7089881,052	709876,988
115	7089881,090	709878,787
116	7089882,090	709878,766
117	7089882,457	709896,127
118	7089881,457	709896,148
119	7089881,546	709900,593
120	7089882,550	709900,572
121	7089882,618	709903,762
122	7089884,581	709949,659
123	7089883,583	709949,701
124	7089883,744	709953,573
125	7089884,747	709953,525
126	7089885,017	709959,848
127	7089884,015	709959,891
128	7089884,181	709963,677
129	7089885,179	709963,635
130	7089885,288	709966,185
131	7089884,290	709966,229
132	7089884,639	709974,592
133	7089885,646	709974,549
134	7089885,812	709978,445
135	7089884,812	709978,445
136	7089885,005	709983,053
137	7089886,008	709983,005
138	7089887,915	710027,605
139	7089886,917	710027,648
140	7089861,848	709868,423

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA MARCOS JOÃO SERAFIM

Ponto	N (m)	E (m)
1	7090803,388	709331,737
2	7090802,362	709326,608
3	7090800,883	709324,775
4	7090801,533	709325,448
5	7090798,869	709323,422
6	7090796,496	709322,728
7	7090741,757	709324,679
8	7090729,336	709325,146
9	7090720,760	709325,469
10	7090712,325	709325,803
11	7090704,067	709326,119
12	7090700,235	709326,270
13	7090698,425	709326,342
14	7090696,937	709326,401
15	7090695,139	709326,472
16	7090692,222	709326,585
17	7090688,151	709326,740
18	7090667,834	709327,521
19	7090663,629	709327,663
20	7090621,497	709329,155
21	7090599,150	709330,006
22	7090586,220	709330,499
23	7090581,426	709330,723
24	7090567,392	709331,378
25	7090562,573	709331,547
26	7090556,065	709331,804
27	7090551,251	709331,992
28	7090539,117	709332,467
29	7090534,573	709332,645
30	7090526,793	709332,950
31	7090522,720	709333,108
32	7090508,990	709333,276
33	7090504,540	709333,209
34	7090491,614	709333,119
35	7090487,709	709333,174
36	7090458,984	709333,617
37	7090455,040	709333,726
38	7090444,788	709333,826
39	7090439,585	709333,979
40	7090402,786	709334,686
41	7090399,815	709334,774
42	7090390,046	709335,060
43	7090385,416	709335,195
44	7090361,296	709336,193
45	7090348,996	709336,846
46	7090343,902	709337,002
47	7090340,572	709337,100
48	7090806,946	709307,922
49	7090804,598	709312,294
50	7090804,320	709312,547
51	7090802,534	709313,721
52	7090800,167	709314,433
53	7090797,880	709314,559
54	7090777,237	709315,337
55	7090771,920	709315,537
56	7090768,229	709315,676
57	7090764,176	709315,827
58	7090761,520	709315,927
59	7090757,005	709316,097
60	7090750,137	709316,357
61	7090735,816	709316,897
62	7090730,552	709317,095
63	7090713,552	709317,448
64	7090711,093	709316,072
65	7090710,539	709315,485
66	7090709,542	709313,611
67	7090709,132	709310,813
68	7090704,093	709309,905
69	7090704,138	709312,422
70	7090702,587	709316,421

Ponto	N (m)	E (m)
71	7090696,552	709318,413
72	7090694,067	709318,508
73	7090666,836	709319,555
74	7090665,037	709319,624
75	7090662,748	709319,009
76	7090661,251	709317,235
77	7090657,047	709317,766
78	7090655,373	709319,384
79	7090653,129	709319,936
80	7090651,331	709320,005
81	7090640,162	709320,434
82	7090638,362	709320,469
83	7090635,465	709319,374
84	7090634,299	709316,127
85	7090629,041	709318,487
86	7090627,776	709320,163
87	7090625,479	709320,998
88	7090623,681	709321,067
89	7090623,011	709321,091
90	7090618,496	709321,263
91	7090582,442	709322,636
92	7090567,139	709323,363
93	7090558,889	709323,686
94	7090554,378	709323,862
95	7090539,296	709324,453
96	7090534,489	709324,641
97	7090520,191	709325,206
98	7090515,534	709325,383
99	7090493,729	709326,069
100	7090422,923	709326,241
101	7090417,421	709326,254
102	7090408,335	709326,530
103	7090399,321	709326,784
104	7090398,435	709326,780
105	7090393,841	709326,948
106	7090385,756	709327,181
107	7090377,230	709327,435
108	7090366,939	709327,732
109	7090359,016	709328,347
110	7090354,804	709328,690
111	7090345,944	709328,936
112	7090341,902	709329,059
113	7090338,943	709329,149
114	7090337,211	709329,183
115	7090335,712	709329,247
116	7090333,919	709329,302
117	7090329,933	709329,424
118	7090319,043	709329,755
119	7090314,937	709329,880
120	7090305,420	709330,179
121	7090294,949	709330,589
122	7090286,285	709330,916
123	7090281,869	709331,089
124	7090263,930	709331,791
125	7090314,781	709337,889
126	7090304,753	709338,188
127	7090293,205	709338,363
128	7090275,638	709338,629
129	7090270,533	709338,707
130	7090268,950	709338,731
131	7090263,838	709338,803
132	7090255,711	709339,042
133	7090221,578	709341,339
134	7090206,433	709340,742
135	7090199,092	709340,903
136	7090193,104	709341,102
137	7090189,347	709341,223
138	7090187,379	709341,391
139	7090183,759	709341,402
140	7090174,418	709341,702

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA MARCOS JOÃO SERAFIM

Ponto	N (m)	E (m)
141	7090170,671	709341,822
142	7090155,744	709342,301
143	7090149,323	709342,507
144	7090141,779	709342,749
145	7090136,651	709342,914
146	7090125,516	709343,271
147	7090122,791	709343,358
148	7090100,000	709344,551
149	7090092,236	709344,904
150	7090066,868	709346,831
151	7090062,356	709347,281
152	7090025,916	709350,521
153	7090017,800	709350,892
154	7090016,815	709350,937
155	7090002,259	709351,602
156	7089991,677	709352,046
157	7089972,754	709352,691
158	7089962,795	709353,033
159	7089958,735	709353,176
160	7089951,453	709353,402
161	7089947,398	709353,725
162	7090221,265	709332,868
163	7090200,769	709334,853
164	7090195,567	709335,017
165	7090109,773	709337,976
166	7090104,072	709338,275
167	7090059,351	709339,800
168	7090050,384	709341,063
169	7090038,485	709341,877
170	7090031,943	709342,371
171	7090024,143	709342,715
172	7090018,025	709342,985
173	7090006,884	709343,476
174	7090002,791	709343,616
175	7089992,961	709343,993
176	7089984,081	709344,291
177	7089980,864	709344,401
178	7089976,744	709344,548
179	7089966,072	709344,913
180	7089961,771	709345,060
181	7089954,622	709345,300
182	7089952,831	709345,376
183	7089950,766	709343,464
184	7089944,836	709343,683
185	7089941,980	709346,132
186	7089940,181	709346,188
187	7089944,089	709345,171
188	7089939,593	709346,206
189	7089933,967	709346,473
190	7089918,655	709346,857
191	7089914,150	709346,997
192	7089903,765	709347,326
193	7089899,269	709347,466
194	7089891,774	709347,693
195	7089887,630	709347,822
196	7089879,533	709348,077
197	7089875,507	709348,202
198	7089870,882	709348,368
199	7089863,406	709348,593
200	7089854,717	709348,896
201	7089851,026	709349,007
202	7089820,974	709350,000
203	7089817,449	709350,118
204	7089813,332	709350,256
205	7089807,339	709350,456
206	7089803,518	709350,584
207	7089797,056	709350,812
208	7089793,858	709350,919
209	7089789,878	709349,792
210	7089790,859	709350,832

Ponto	N (m)	E (m)
211	7089788,529	709347,586
212	7089788,338	709345,276
213	7089924,874	709354,521
214	7089921,111	709354,663
215	7089912,500	709354,989
216	7089903,750	709355,319
217	7089899,625	709355,470
218	7089882,054	709355,986
219	7089873,690	709356,272
220	7089864,449	709356,486
221	7089859,698	709356,626
222	7089849,660	709356,961
223	7089837,178	709357,325
224	7089830,393	709357,556
225	7089826,356	709357,694
226	7089818,624	709358,033
227	7089800,434	709358,652
228	7089796,756	709358,778
229	7089793,008	709358,930
230	7089780,237	709344,884
231	7089780,036	709347,632
232	7089779,098	709349,463
233	7089774,463	709351,546
234	7089772,372	709351,625
235	7089760,638	709352,072
236	7089755,601	709352,264
237	7089737,762	709352,861
238	7089733,686	709353,017
239	7089720,802	709353,440
240	7089719,003	709353,499
241	7089714,499	709352,982
242	7089713,372	709347,413
243	7089713,325	709345,614
244	7089773,172	709359,611
245	7089769,793	709359,715
246	7089766,390	709359,819
247	7089763,118	709359,916
248	7089760,566	709360,002
249	7089757,294	709360,099
250	7089754,140	709360,205
251	7089750,439	709360,328
252	7089748,233	709360,419
253	7089744,565	709360,528
254	7089737,284	709360,787
255	7089732,784	709360,917
256	7089720,044	709361,461
257	7089718,245	709361,533
258	7089715,166	709361,841
259	7089713,877	709367,566
260	7089713,939	709369,365
261	7089704,041	709369,634
262	7089703,991	709367,874
263	7089703,224	709362,279
264	7089698,595	709362,053
265	7089696,796	709362,115
266	7089695,536	709362,158
267	7089692,157	709362,274
268	7089689,071	709362,380
269	7089686,078	709362,483
270	7089683,704	709362,566
271	7089680,338	709362,666
272	7089678,603	709362,726
273	7089671,932	709362,969
274	7089657,914	709363,444
275	7089650,141	709363,705
276	7089644,137	709363,906
277	7089703,341	709346,966
278	7089703,382	709348,737
279	7089703,409	709352,609
280	7089698,217	709354,354

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA MIRKO MAYERLE

Ponto	N (m)	E (m)
1	7090610,247	708574,016
2	7090610,451	708576,629
3	7090610,839	708589,394
4	7090610,878	708590,391
5	7090611,391	708593,093
6	7090611,790	708594,058
7	7090613,453	708596,156
8	7090616,422	708597,890
9	7090619,203	708598,271
10	7090619,294	708606,162
11	7090617,075	708606,568
12	7090613,747	708608,714
13	7090611,787	708612,488
14	7090611,619	708614,505
15	7090612,493	708635,322
16	7090612,701	708640,552
17	7090612,984	708647,673
18	7090613,148	708651,900
19	7090613,589	708662,525
20	7090613,683	708664,323
21	7090614,226	708668,183
22	7090618,108	708670,245
23	7090619,897	708670,156
24	7090621,469	708678,058
25	7090618,665	708678,172
26	7090617,323	708679,414
27	7090615,583	708681,205
28	7090614,304	708684,465
29	7090614,364	708686,249
30	7090615,273	708714,244
31	7090615,439	708719,384
32	7090615,551	708722,874
33	7090615,673	708727,247
34	7090615,849	708733,828
35	7090601,454	708574,354
36	7090602,253	708574,324
37	7090602,875	708590,465
38	7090602,075	708590,496
39	7090602,732	708592,886
40	7090600,789	708596,674
41	7090597,577	708598,798
42	7090595,264	708599,252
43	7090595,636	708607,239
44	7090598,035	708607,616
45	7090601,057	708609,364
46	7090603,243	708612,775
47	7090603,611	708614,624
48	7090602,917	708614,652
49	7090604,695	708642,306
50	7090604,053	708642,341
51	7090604,932	708647,886
52	7090604,282	708647,913
53	7090605,231	708654,757
54	7090604,564	708654,785
55	7090605,393	708658,570
56	7090604,720	708658,598
57	7090605,564	708662,403
58	7090604,878	708662,433
59	7090605,673	708664,900
60	7090605,413	708668,200
61	7090604,635	708669,407
62	7090601,674	708671,158
63	7090599,175	708671,243
64	7090600,109	708679,098
65	7090601,519	708679,043
66	7090604,553	708680,231
67	7090606,332	708684,948
68	7090606,445	708686,742
69	7090606,684	708696,982
70	7090606,756	708701,392

Ponto	N (m)	E (m)
71	7090606,896	708704,534
72	7090607,001	708708,991
73	7090607,443	708722,572
74	7090607,590	708726,986
75	7090607,831	708734,759
76	7090617,035	708758,252
77	7090617,664	708758,234
78	7090617,924	708763,494
79	7090617,218	708763,514
80	7090617,953	708767,151
81	7090617,348	708767,174
82	7090618,051	708769,645
83	7090617,457	708769,668
84	7090618,224	708774,154
85	7090617,549	708774,176
86	7090618,613	708786,002
87	7090617,900	708786,026
88	7090618,907	708794,662
89	7090618,187	708794,698
90	7090619,517	708807,051
91	7090618,731	708807,108
92	7090618,909	708809,617
93	7090622,431	708814,197
94	7090624,247	708814,388
95	7090625,963	708814,322
96	7090626,477	708822,134
97	7090624,096	708822,634
98	7090621,908	708823,995
99	7090619,964	708827,379
100	7090619,840	708829,609
101	7090620,640	708829,596
102	7090621,046	708847,837
103	7090620,246	708847,868
104	7090620,884	708864,387
105	7090621,685	708864,402
106	7090621,849	708868,637
107	7090621,050	708868,668
108	7090621,222	708873,143
109	7090621,334	708876,043
110	7090621,433	708878,480
111	7090624,068	708883,602
112	7090626,734	708884,053
113	7090629,159	708883,992
114	7090629,501	708891,575
115	7090626,850	708892,185
116	7090624,052	708894,150
117	7090622,126	708897,863
118	7090621,964	708900,369
119	7090622,592	708900,354
120	7090623,119	708915,537
121	7090622,436	708915,561
122	7090622,573	708919,491
123	7090623,256	708919,467
124	7090623,809	708932,092
125	7090622,951	708932,119
126	7090623,116	708936,606
127	7090623,850	708936,581
128	7090624,130	708947,503
129	7090623,535	708947,469
130	7090623,749	708950,007
131	7090625,947	708953,626
132	7090631,644	708955,810
133	7090633,764	708955,740
134	7090632,137	708963,798
135	7090630,075	708964,167
136	7090626,143	708966,065
137	7090624,296	708970,212
138	7090624,312	708972,194
139	7090624,962	708972,194
140	7090625,071	708975,127

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA PETRONILHA DE S. FORTUNATO (T1)

Ponto	N (m)	E (m)
1	7090250,826	709835,651
2	7090250,849	709836,911
3	7090250,901	709839,732
4	7090245,147	709845,205
5	7090243,137	709845,679
6	7090243,038	709845,107
7	7090236,893	709845,288
8	7090236,916	709846,016
9	7090216,991	709846,672
10	7090216,967	709845,872
11	7090192,073	709846,603
12	7090192,576	709847,361
13	7090190,798	709847,079
14	7090189,219	709846,554
15	7090186,066	709844,497
16	7090185,479	709843,575
17	7090185,153	709842,896
18	7090184,805	709841,809
19	7090184,627	709841,151
20	7090251,459	709861,034
21	7090249,727	709857,685
22	7090248,287	709856,617
23	7090246,861	709856,035
24	7090245,092	709855,736
25	7090245,677	709856,688
26	7090240,785	709856,484
27	7090216,436	709857,349
28	7090216,407	709856,549
29	7090194,862	709857,314
30	7090193,569	709857,360
31	7090174,141	709839,959
32	7090173,566	709841,802
33	7090171,927	709844,581
34	7090169,606	709846,613
35	7090168,738	709847,102
36	7090166,774	709847,834
37	7090166,071	709847,960
38	7090166,046	709847,054
39	7090162,286	709847,161
40	7090162,309	709847,960
41	7090158,893	709848,057
42	7090158,896	709847,257
43	7090158,055	709847,281
44	7090158,078	709848,080
45	7090152,219	709848,260
46	7090152,196	709847,446
47	7090151,060	709847,479
48	7090151,082	709848,278
49	7090145,279	709848,442
50	7090145,256	709847,643
51	7090144,065	709847,677
52	7090144,088	709848,476
53	7090123,344	709849,065
54	7090123,321	709848,264
55	7090121,277	709848,321
56	7090121,281	709849,107
57	7090116,706	709849,253
58	7090167,064	709857,830
59	7090167,086	709858,630
60	7090116,943	709860,049
61	7090116,925	709859,249
62	7090089,934	709850,589
63	7090089,922	709849,789
64	7090087,241	709849,877
65	7090087,269	709850,707
66	7090061,656	709851,525
67	7090061,630	709850,722
68	7090059,501	709851,596
69	7090059,474	709850,793
70	7090055,901	709851,711

Ponto	N (m)	E (m)
71	7090055,875	709850,911
72	7090052,872	709851,010
73	7090052,899	709851,814
74	7090048,904	709851,942
75	7090048,877	709851,142
76	7090041,067	709851,400
77	7090041,093	709852,199
78	7090038,499	709852,028
79	7090034,784	709850,062
80	7090032,557	709846,409
81	7090032,245	709844,483
82	7090032,226	709843,644
83	7090090,457	709860,577
84	7090090,486	709861,455
85	7090087,369	709861,479
86	7090087,337	709860,680
87	7090065,170	709861,385
88	7090065,197	709862,210
89	7090040,809	709863,014
90	7090040,769	709862,215
91	7090022,236	709844,379
92	7090022,249	709844,812
93	7090021,964	709846,736
94	7090020,105	709850,512
95	7090016,525	709852,729
96	7090014,570	709853,052
97	7090014,154	709853,068
98	7090014,123	709852,269
99	7090002,213	709852,741
100	7090002,245	709853,545
101	7089997,926	709853,712
102	7089997,895	709852,912
103	7089979,186	709853,655
104	7089979,208	709854,452
105	7089973,831	709853,867
106	7089973,862	709854,666
107	7089965,262	709854,207
108	7089965,294	709855,006
109	7090014,866	709863,049
110	7090014,771	709863,818
111	7090001,365	709864,384
112	7090001,334	709863,585
113	7089996,419	709863,774
114	7089996,451	709864,579
115	7089990,610	709864,811
116	7089990,578	709864,011
117	7089985,607	709864,208
118	7089985,664	709865,007
119	7089975,262	709865,419
120	7089975,235	709864,621
121	7089971,523	709864,767
122	7089971,554	709865,567
123	7089964,778	709865,835
124	7089964,747	709865,036
125	7089937,473	709855,351
126	7089937,443	709854,551
127	7089912,930	709855,465
128	7089912,961	709856,292
129	7089891,124	709857,079
130	7089891,093	709856,279
131	7089887,897	709856,398
132	7089887,927	709857,198
133	7089937,602	709865,355
134	7089937,652	709866,152
135	7089915,849	709866,964
136	7089915,819	709866,166
137	7089910,273	709866,378
138	7089910,304	709867,171
139	7089888,807	709867,973
140	7089888,777	709867,173

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA PETRONILHA DE S. FORTUNATO (T1)

Ponto	N (m)	E (m)
141	7089861,715	709858,439
142	7089861,778	709857,638
143	7089859,077	709857,687
144	7089859,091	709858,487
145	7089855,343	709858,555
146	7089855,329	709857,756
147	7089853,945	709857,781
148	7089853,960	709858,596
149	7089840,316	709858,831
150	7089840,302	709858,031
151	7089813,519	709858,521
152	7089813,534	709859,321
153	7089862,668	709868,423
154	7089862,904	709869,219
155	7089813,152	709870,130
156	7089813,137	709869,330
157	7089786,686	709860,693
158	7089786,657	709859,893
159	7089736,611	709860,981
160	7089736,658	709861,795
161	7089787,140	709870,685
162	7089787,157	709871,485
163	7089761,997	709872,032
164	7089761,980	709871,232
165	7089757,955	709871,315
166	7089757,957	709872,119
167	7089756,956	709872,141
168	7089756,945	709871,347
169	7089749,714	709871,496
170	7089749,731	709872,298
171	7089748,724	709872,320
172	7089748,700	709871,526
173	7089741,024	709871,684
174	7089741,041	709872,487
175	7089736,914	709872,577
176	7089736,897	709871,777
177	7089709,456	709863,293
178	7089685,286	709864,011
179	7089685,261	709863,183
180	7089660,394	709863,922
181	7089660,383	709864,731
182	7089710,154	709873,235
183	7089710,210	709874,047
184	7089676,208	709875,057
185	7089676,184	709874,254
186	7089671,793	709874,380
187	7089671,827	709875,187
188	7089660,808	709875,515
189	7089660,784	709874,715
190	7089633,840	709865,776
191	7089633,894	709864,975
192	7089620,346	709865,357
193	7089620,369	709866,156
194	7089616,499	709866,265
195	7089616,476	709865,466
196	7089602,423	709865,862
197	7089602,446	709866,667
198	7089597,138	709866,811
199	7089597,115	709866,011
200	7089583,586	709866,356
201	7089584,176	709867,175
202	7089582,376	709866,984
203	7089578,612	709864,983
204	7089576,338	709861,057
205	7089576,117	709859,271
206	7089634,287	709875,747
207	7089634,268	709876,569
208	7089625,211	709876,824
209	7089625,173	709876,037
210	7089621,694	709876,132

Ponto	N (m)	E (m)
211	7089621,717	709876,923
212	7089619,840	709876,975
213	7089619,805	709876,187
214	7089611,924	709876,406
215	7089611,950	709877,198
216	7089610,444	709877,240
217	7089610,422	709876,441
218	7089605,872	709876,575
219	7089605,886	709877,369
220	7089585,275	709877,950
221	7089585,253	709877,150
222	7089566,090	709859,063
223	7089565,954	709860,954
224	7089564,234	709864,321
225	7089560,483	709866,616
226	7089558,604	709866,861
227	7089558,566	709866,062
228	7089551,301	709866,402
229	7089551,339	709867,206
230	7089546,528	709867,426
231	7089546,491	709866,627
232	7089527,424	709867,519
233	7089527,462	709868,323
234	7089522,995	709868,527
235	7089522,957	709867,728
236	7089507,983	709868,428
237	7089508,020	709869,227
238	7089485,130	709870,456
239	7089485,126	709869,656
240	7089477,656	709869,692
241	7089477,660	709870,492
242	7089473,153	709870,514
243	7089473,170	709869,714
244	7089470,546	709869,727
245	7089470,550	709870,530
246	7089466,987	709870,544
247	7089466,983	709869,744
248	7089454,619	709869,804
249	7089454,644	709870,621
250	7089439,951	709870,675
251	7089439,947	709869,875
252	7089438,961	709869,880
253	7089438,965	709870,687
254	7089432,634	709870,711
255	7089432,630	709869,911
256	7089431,581	709869,916
257	7089429,426	709869,586
258	7089427,441	709868,607
259	7089426,981	709869,261
260	7089559,094	709876,849
261	7089559,132	709877,648
262	7089545,613	709878,281
263	7089545,575	709877,471
264	7089541,174	709877,687
265	7089541,211	709878,487
266	7089534,549	709878,798
267	7089534,512	709877,999
268	7089529,779	709878,221
269	7089529,816	709879,020
270	7089514,689	709879,727
271	7089514,678	709878,811
272	7089510,539	709879,120
273	7089510,576	709879,920
274	7089506,331	709880,118
275	7089507,093	709879,282
276	7089505,295	709879,366
277	7089503,796	709879,425
278	7089502,050	709879,486
279	7089497,376	709879,651
280	7089497,404	709880,450

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA RUDOLF BAUMER

Ponto	N (m)	E (m)
1	7090784,407	709436,424
2	7090782,997	709437,514
3	7090781,050	709438,641
4	7090779,138	709439,408
5	7090777,402	709439,881
6	7090715,464	709442,183
7	7090708,535	709442,483
8	7090703,819	709442,664
9	7090696,647	709442,937
10	7090692,328	709443,103
11	7090676,563	709443,677
12	7090672,242	709443,808
13	7090663,914	709444,129
14	7090653,610	709444,547
15	7090647,743	709444,729
16	7090645,944	709444,785
17	7090644,445	709444,832
18	7090642,646	709444,888
19	7090630,258	709445,253
20	7090625,880	709445,405
21	7090614,358	709445,763
22	7090608,683	709445,940
23	7090600,744	709446,194
24	7090596,473	709446,327
25	7090587,649	709446,598
26	7090582,751	709446,769
27	7090574,096	709447,086
28	7090569,934	709447,212
29	7090540,550	709448,263
30	7090534,618	709448,443
31	7090525,683	709448,754
32	7090517,485	709449,040
33	7090512,774	709449,204
34	7090508,907	709449,339
35	7090499,544	709449,668
36	7090497,745	709449,731
37	7090494,218	709449,851
38	7090492,419	709449,916
39	7090483,995	709450,202
40	7090479,363	709450,366
41	7090477,710	709450,419
42	7090473,417	709450,558
43	7090463,354	709450,872
44	7090459,065	709451,021
45	7090440,974	709451,610
46	7090436,700	709451,756
47	7090428,010	709452,053
48	7090424,125	709452,186
49	7090422,176	709452,243
50	7090417,568	709452,401
51	7090389,008	709453,426
52	7090379,424	709453,770
53	7090369,312	709454,109
54	7090365,044	709454,262
55	7090348,500	709454,856
56	7090783,599	709449,797
57	7090781,594	709448,761
58	7090779,843	709448,129
59	7090779,451	709447,919
60	7090777,085	709447,620
61	7090771,601	709447,809
62	7090729,199	709449,260
63	7090722,197	709449,509
64	7090717,666	709449,670
65	7090713,205	709449,820
66	7090702,312	709450,189
67	7090697,851	709450,340
68	7090679,059	709450,945
69	7090675,319	709451,065
70	7090673,728	709451,116

Ponto	N (m)	E (m)
71	7090668,778	709451,286
72	7090648,706	709451,987
73	7090646,906	709452,060
74	7090643,398	709454,804
75	7090642,548	709455,873
76	7090641,923	709457,671
77	7090633,642	709459,841
78	7090632,963	709457,370
79	7090632,238	709455,718
80	7090630,169	709453,625
81	7090629,313	709453,216
82	7090627,411	709452,836
83	7090599,334	709453,669
84	7090595,240	709453,813
85	7090574,105	709454,572
86	7090569,259	709454,742
87	7090559,828	709455,052
88	7090550,145	709455,374
89	7090529,285	709456,111
90	7090524,909	709456,268
91	7090513,064	709456,712
92	7090508,657	709456,866
93	7090499,149	709457,290
94	7090475,452	709457,997
95	7090469,014	709458,214
96	7090464,741	709458,352
97	7090462,783	709458,422
98	7090458,689	709458,559
99	7090438,866	709459,224
100	7090434,073	709459,380
101	7090424,503	709459,706
102	7090420,409	709459,844
103	7090410,747	709460,168
104	7090406,648	709460,306
105	7090390,801	709460,843
106	7090385,498	709461,015
107	7090372,138	709461,476
108	7090367,795	709461,623
109	7090348,688	709462,350
110	7090323,841	709455,650
111	7090317,658	709455,838
112	7090313,060	709455,977
113	7090310,946	709456,042
114	7090306,344	709456,182
115	7090296,344	709456,544
116	7090291,248	709456,679
117	7090273,087	709457,343
118	7090267,972	709457,528
119	7090255,676	709457,971
120	7090324,080	709463,062
121	7090313,351	709463,485
122	7090279,644	709464,655
123	7090275,046	709464,790
124	7090255,920	709465,422
125	7090229,705	709459,135
126	7090214,186	709459,548
127	7090205,962	709459,780
128	7090201,610	709459,902
129	7090193,679	709460,141
130	7090189,329	709460,265
131	7090181,079	709460,508
132	7090176,730	709460,657
133	7090160,738	709461,231
134	7090152,833	709461,502
135	7090144,790	709461,787
136	7090140,099	709461,956
137	7090132,836	709462,166
138	7090128,486	709462,296
139	7090112,779	709462,782
140	7090108,179	709462,919

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA RUDOLF BAUMER

Ponto	N (m)	E (m)
141	7090105,746	709462,991
142	7090229,942	709466,369
143	7090213,993	709466,903
144	7090210,128	709467,028
145	7090204,069	709467,231
146	7090196,708	709467,474
147	7090189,872	709467,704
148	7090185,272	709467,854
149	7090178,058	709468,094
150	7090173,459	709468,245
151	7090164,371	709468,544
152	7090159,765	709468,695
153	7090152,217	709468,944
154	7090147,618	709469,095
155	7090124,030	709469,955
156	7090119,905	709470,056
157	7090117,019	709470,162
158	7090113,343	709470,295
159	7090108,355	709470,494
160	7090104,230	709470,723
161	7090076,967	709464,015
162	7090072,375	709464,172
163	7090055,848	709464,793
164	7090048,007	709465,108
165	7090043,279	709465,298
166	7090040,067	709465,409
167	7090031,683	709465,676
168	7090027,076	709465,834
169	7090021,575	709466,014
170	7090016,977	709466,163
171	7090014,578	709466,241
172	7090009,979	709466,392
173	7090004,329	709466,576
174	7089999,723	709466,728
175	7089992,159	709466,960
176	7089987,560	709467,118
177	7089980,510	709467,342
178	7089975,910	709467,489
179	7089952,899	709468,371
180	7090076,486	709471,596
181	7090063,603	709472,020
182	7090059,485	709472,154
183	7090052,327	709472,390
184	7090047,655	709472,545
185	7090039,737	709472,806
186	7090035,341	709472,951
187	7090027,575	709473,207
188	7090023,052	709473,356
189	7090008,022	709473,867
190	7090003,762	709474,013
191	7089995,671	709474,290
192	7089991,348	709474,438
193	7089985,473	709474,638
194	7089976,356	709474,948
195	7089953,757	709475,810
196	7089927,117	709468,831
197	7089801,376	709473,176
198	7089799,276	709473,182
199	7089797,749	709472,962
200	7089792,559	709467,419
201	7089791,999	709465,333
202	7089927,912	709476,871
203	7089911,780	709477,367
204	7089907,186	709477,520
205	7089898,022	709477,826
206	7089893,428	709477,975
207	7089884,335	709478,282
208	7089879,735	709478,431
209	7089864,756	709478,930
210	7089860,162	709479,088

Ponto	N (m)	E (m)
211	7089845,284	709479,584
212	7089840,690	709479,737
213	7089828,574	709480,144
214	7089823,975	709480,293
215	7089820,249	709480,424
216	7089814,507	709480,612
217	7089804,658	709480,974
218	7089799,715	709481,180
219	7089797,916	709481,246
220	7089796,416	709481,281
221	7089794,618	709481,367
222	7089786,807	709481,655
223	7089782,165	709481,807
224	7089750,228	709482,940
225	7089730,672	709483,657
226	7089725,078	709483,890
227	7089721,355	709484,166
228	7089718,675	709485,703
229	7089717,662	709488,228
230	7089717,697	709490,027
231	7089783,853	709467,142
232	7089783,914	709469,241
233	7089783,483	709470,831
234	7089782,733	709471,920
235	7089779,928	709473,728
236	7089766,374	709474,233
237	7089760,075	709474,461
238	7089746,724	709474,947
239	7089742,332	709475,147
240	7089724,929	709475,938
241	7089723,114	709476,012
242	7089719,855	709475,454
243	7089717,341	709472,879
244	7089717,206	709470,240
245	7089717,148	709468,455
246	7089707,620	709492,966
247	7089707,545	709490,315
248	7089704,389	709485,046
249	7089701,207	709484,978
250	7089699,407	709485,018
251	7089686,925	709485,367
252	7089677,045	709485,665
253	7089671,371	709485,833
254	7089666,349	709485,996
255	7089655,824	709486,318
256	7089651,673	709486,449
257	7089649,097	709486,531
258	7089647,270	709486,588
259	7089645,076	709486,856
260	7089642,226	709488,564
261	7089640,711	709491,365
262	7089640,732	709493,644
263	7089640,745	709494,954
264	7089706,984	709468,769
265	7089707,038	709470,563
266	7089707,121	709473,204
267	7089701,023	709476,838
268	7089699,231	709476,900
269	7089691,719	709477,175
270	7089685,468	709477,390
271	7089681,704	709477,520
272	7089674,780	709477,749
273	7089648,992	709478,585
274	7089646,208	709478,594
275	7089644,701	709478,235
276	7089644,373	709478,128
277	7089641,414	709476,006
278	7089640,001	709472,422
279	7089632,668	709495,256
280	7089632,595	709493,703

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA RUDOLF BAUMER

Ponto	N (m)	E (m)
281	7089632,384	709491,607
282	7089630,372	709488,663
283	7089626,318	709487,238
284	7089624,519	709487,315
285	7089620,379	709487,490
286	7089616,223	709487,631
287	7089611,647	709487,785
288	7089605,149	709488,041
289	7089599,686	709488,225
290	7089594,574	709488,405
291	7089592,656	709488,469
292	7089584,179	709488,755
293	7089581,743	709488,832
294	7089578,182	709488,988
295	7089576,086	709489,094
296	7089572,391	709489,220
297	7089570,951	709489,633
298	7089568,687	709490,863
299	7089566,151	709493,967
300	7089565,794	709496,715
301	7089631,250	709472,280
302	7089631,948	709472,214
303	7089631,281	709476,119
304	7089630,697	709475,735
305	7089629,139	709478,162
306	7089628,828	709478,407
307	7089627,239	709479,019
308	7089624,701	709479,245
309	7089624,680	709478,746
310	7089619,228	709479,481
311	7089619,206	709478,981
312	7089599,095	709480,222
313	7089599,066	709479,423
314	7089589,292	709480,602
315	7089589,260	709479,798
316	7089585,020	709480,766
317	7089584,989	709479,967
318	7089573,098	709481,239
319	7089573,066	709480,439
320	7089570,563	709481,254
321	7089570,763	709481,283
322	7089565,130	709475,265
323	7089565,001	709473,343
324	7089556,798	709496,812
325	7089556,079	709494,106
326	7089554,366	709491,711
327	7089549,782	709489,625
328	7089547,294	709489,510
329	7089497,034	709490,439
330	7089494,763	709490,812
331	7089491,410	709492,898
332	7089489,825	709495,295
333	7089489,224	709497,618
334	7089554,985	709473,002
335	7089554,729	709475,568
336	7089552,797	709479,023
337	7089549,589	709481,081
338	7089546,890	709481,516
339	7089496,794	709482,442
340	7089494,571	709482,300
341	7089490,606	709480,242
342	7089488,802	709477,667
343	7089488,179	709475,350
344	7089481,226	709500,564
345	7089480,861	709498,359
346	7089479,806	709496,203
347	7089478,738	709494,957
348	7089474,773	709492,908
349	7089472,535	709492,774
350	7089422,196	709494,160

Ponto	N (m)	E (m)
351	7089419,860	709494,457
352	7089417,682	709495,427
353	7089414,358	709499,766
354	7089413,989	709502,142
355	7089480,148	709475,537
356	7089480,103	709477,921
357	7089477,992	709482,280
358	7089474,581	709484,410
359	7089472,023	709484,785
360	7089422,024	709486,161
361	7089419,706	709486,018
362	7089417,485	709485,212
363	7089413,630	709480,462
364	7089413,297	709478,290
365	7089403,997	709502,698
366	7089403,506	709500,161
367	7089399,900	709495,944
368	7089397,446	709495,106
369	7089395,031	709494,964
370	7089363,862	709496,076
371	7089362,063	709496,141
372	7089360,564	709496,194
373	7089358,766	709496,294
374	7089220,587	709501,263
375	7089218,842	709501,704
376	7089216,751	709502,917
377	7089215,908	709503,692
378	7089214,955	709504,922
379	7089213,729	709509,360
380	7089403,294	709478,347
381	7089403,091	709480,787
382	7089402,347	709482,740
383	7089399,528	709485,734
384	7089397,399	709486,660
385	7089394,981	709486,955
386	7089363,682	709488,077
387	7089361,882	709488,118
388	7089360,383	709488,152
389	7089358,585	709488,260
390	7089340,509	709487,861
391	7089338,738	709486,604
392	7089336,943	709484,111
393	7089336,386	709482,426
394	7089336,215	709480,991
395	7089328,222	709481,343
396	7089328,167	709482,610
397	7089327,689	709484,515
398	7089326,060	709487,106
399	7089324,594	709488,333
400	7089241,648	709491,335
401	7089239,996	709490,138
402	7089239,462	709489,585
403	7089238,266	709487,412
404	7089237,519	709485,129
405	7089229,468	709485,787
406	7089229,021	709487,817
407	7089226,202	709491,637
408	7089224,908	709492,405
409	7089226,202	709491,637
410	7089224,908	709492,405
411	7089220,316	709493,178
412	7089218,539	709492,861
413	7089216,16	709491,693
414	7089214,796	709490,516
415	7089213,159	709487,479

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA SÃO GABRIEL ARCANJO

Ponto	N (m)	E (m)
1	7089563,118	709091,741
2	7089557,765	709093,626
3	7089555,057	709097,986
4	7089555,966	709095,693
5	7089554,874	709100,880
6	7089555,674	709100,869
7	7089556,039	709127,491
8	7089555,239	709127,502
9	7089555,287	709131,027
10	7089556,087	709131,016
11	7089556,116	709133,136
12	7089555,347	709133,114
13	7089555,549	709149,621
14	7089556,008	709151,877
15	7089557,929	709154,876
16	7089561,209	709156,823
17	7089563,567	709157,169
18	7089536,648	709093,072
19	7089536,624	709092,272
20	7089541,337	709093,636
21	7089540,885	709094,306
22	7089542,396	709094,490
23	7089543,177	709095,355
24	7089544,425	709097,656
25	7089544,859	709100,000
26	7089544,060	709100,031
27	7089545,540	709149,530
28	7089544,740	709149,541
29	7089545,396	709151,962
30	7089543,333	709155,681
31	7089541,698	709156,995
32	7089538,890	709158,018
33	7089538,728	709166,157
34	7089541,525	709166,829
35	7089543,771	709168,319
36	7089545,272	709170,241
37	7089546,157	709172,699
38	7089545,370	709172,844
39	7089550,536	709351,431
40	7089551,336	709351,409
41	7089551,167	709353,849
42	7089549,175	709357,622
43	7089546,944	709359,284
44	7089544,548	709360,046
45	7089563,890	709165,168
46	7089561,763	709165,562
47	7089558,403	709167,721
48	7089557,040	709169,738
49	7089556,396	709171,755
50	7089556,272	709173,188
51	7089556,371	709176,918
52	7089557,175	709176,890
53	7089557,571	709190,806
54	7089556,817	709190,826
55	7089556,887	709194,913
56	7089557,686	709194,842
57	7089557,884	709201,805
58	7089557,135	709201,832
59	7089557,220	709206,602
60	7089558,018	709206,534
61	7089558,072	709208,424
62	7089557,321	709208,457
63	7089557,392	709212,645
64	7089558,191	709212,622
65	7089558,365	709218,718
66	7089557,565	709218,741
67	7089557,686	709222,751
68	7089558,479	709222,729
69	7089559,072	709243,564
70	7089558,314	709243,590

Ponto	N (m)	E (m)
71	7089558,447	709248,267
72	7089559,205	709248,245
73	7089559,392	709254,824
74	7089558,640	709254,844
75	7089558,755	709258,901
76	7089559,507	709258,879
77	7089559,546	709260,216
78	7089558,832	709260,219
79	7089559,295	709279,441
80	7089560,092	709279,418
81	7089560,325	709287,612
82	7089559,529	709287,633
83	7089559,631	709291,436
84	7089560,433	709291,409
85	7089560,648	709298,960
86	7089559,892	709298,981
87	7089560,025	709303,657
88	7089560,781	709303,635
89	7089560,985	709311,341
90	7089560,212	709311,361
91	7089560,447	709319,945
92	7089561,260	709319,923
93	7089561,649	709334,120
94	7089560,866	709334,143
95	7089560,980	709338,138
96	7089561,762	709338,115
97	7089561,832	709340,569
98	7089561,032	709340,592
99	7089561,131	709344,085
100	7089561,947	709344,071
101	7089562,063	709348,692
102	7089561,312	709348,712
103	7089561,406	709352,242
104	7089561,940	709353,958
105	7089563,871	709356,926
106	7089567,106	709358,766
107	7089569,646	709359,077
108	7089569,484	709366,778
109	7089567,114	709367,234
110	7089563,938	709369,320
111	7089561,956	709373,164
112	7089561,822	709375,776
113	7089562,621	709375,750
114	7089563,186	709393,078
115	7089562,412	709393,103
116	7089562,669	709402,767
117	7089563,501	709402,740
118	7089564,020	709418,659
119	7089563,219	709418,662
120	7089563,373	709423,725
121	7089564,184	709423,698
122	7089564,421	709430,977
123	7089563,621	709431,004
124	7089563,734	709435,254
125	7089564,560	709435,227
126	7089564,862	709444,506
127	7089564,105	709444,526
128	7089564,236	709448,570
129	7089564,993	709448,543
130	7089565,283	709457,433
131	7089564,488	709457,459
132	7089564,618	709461,449
133	7089565,413	709461,423
134	7089565,460	709462,872
135	7089564,661	709462,906
136	7089564,791	709466,789
137	7089565,584	709466,763
138	7089565,803	709473,391
139	7089565,004	709473,417
140	7089542,526	709368,169

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA SÃO GABRIEL ARCANJO

Ponto	N (m)	E (m)
141	7089544,623	709368,172
142	7089547,402	709368,978
143	7089549,298	709370,299
144	7089551,288	709373,254
145	7089551,827	709375,885
146	7089551,020	709375,912
147	7089554,985	709473,005
148	7089554,185	709473,028
149	7089556,824	709497,303
150	7089556,038	709497,334
151	7089556,849	709533,457
152	7089557,653	709533,440
153	7089557,725	709537,387
154	7089556,938	709537,420
155	7089558,771	709583,959
156	7089557,984	709583,976
157	7089558,927	709590,897
158	7089558,140	709590,930
159	7089558,171	709592,296
160	7089558,958	709592,278
161	7089559,114	709599,225
162	7089558,327	709599,242
163	7089558,391	709604,614
164	7089559,203	709604,604
165	7089559,384	709611,268
166	7089558,585	709611,286
167	7089558,712	709616,935
168	7089559,495	709616,946
169	7089559,584	709620,894
170	7089558,814	709620,912
171	7089558,841	709622,110
172	7089559,628	709622,097
173	7089559,717	709626,055
174	7089558,930	709626,073
175	7089560,268	709661,349
176	7089559,361	709661,698
177	7089559,469	709663,441
178	7089558,276	709665,072
179	7089554,174	709667,277
180	7089552,398	709667,578
181	7089551,150	709667,618
182	7089553,158	709675,562
183	7089555,003	709675,572
184	7089556,503	709675,481
185	7089558,301	709675,575
186	7089557,576	709676,260
187	7089559,866	709676,823
188	7089560,108	709677,280
189	7089559,540	709678,137
190	7089560,560	709678,978
191	7089560,778	709680,505
192	7089561,012	709682,289
193	7089560,202	709681,654
194	7089561,654	709707,953
195	7089560,854	709707,972
196	7089562,211	709727,229
197	7089561,412	709727,252
198	7089561,491	709729,962
199	7089562,281	709729,945
200	7089562,409	709733,953
201	7089561,608	709733,924
202	7089562,735	709744,232
203	7089561,931	709744,265
204	7089562,817	709748,200
205	7089562,060	709748,225
206	7089563,225	709759,445
207	7089562,426	709759,471
208	7089563,373	709763,383
209	7089562,554	709763,410
210	7089563,617	709772,075

Ponto	N (m)	E (m)
211	7089562,817	709772,098
212	7089563,724	709776,009
213	7089562,930	709776,032
214	7089564,323	709796,673
215	7089563,524	709796,695
216	7089564,448	709801,006
217	7089563,648	709801,029
218	7089563,740	709804,233
219	7089564,543	709804,210
220	7089564,628	709808,173
221	7089563,854	709808,195
222	7089564,936	709817,987
223	7089564,136	709818,010
224	7089565,016	709821,951
225	7089564,250	709821,973
226	7089565,478	709834,706
227	7089564,668	709834,738
228	7089565,563	709838,669
229	7089564,824	709838,698
230	7089565,973	709847,556
231	7089565,174	709847,587
232	7089566,135	709851,670
233	7089565,335	709851,702
234	7089565,290	709859,052
235	7089566,056	709859,129
236	7089577,226	709674,898
237	7089572,740	709677,066
238	7089571,677	709678,518
239	7089571,533	709678,867
240	7089571,181	709680,663
241	7089571,137	709682,463
242	7089571,920	709681,747
243	7089572,278	709696,414
244	7089571,515	709696,433
245	7089571,588	709700,948
246	7089572,388	709700,929
247	7089572,654	709711,668
248	7089571,859	709711,695
249	7089571,995	709715,169
250	7089572,743	709715,150
251	7089572,902	709721,287
252	7089572,102	709721,308
253	7089572,211	709725,727
254	7089573,015	709725,706
255	7089573,528	709744,104
256	7089572,739	709744,129
257	7089572,845	709748,099
258	7089573,652	709748,074
259	7089574,248	709767,068
260	7089573,457	709767,092
261	7089574,051	709786,059
262	7089574,842	709786,034
263	7089575,031	709792,059
264	7089574,247	709792,080
265	7089574,437	709799,250
266	7089575,256	709799,225
267	7089575,395	709803,623
268	7089574,595	709803,649
269	7089574,710	709807,857
270	7089575,529	709807,830
271	7089576,074	709824,954
272	7089575,274	709824,988
273	7089575,561	709836,144
274	7089576,430	709836,151
275	7089576,753	709846,304
276	7089575,979	709846,330
277	7089576,144	709852,584
278	7089576,944	709852,584
279	7089576,944	709859,262
280	7089576,144	709859,290

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO
RUA SÃO VIGÍLIO

Ponto	N (m)	E (m)
1	7089654,315	709672,519
2	7089652,522	709672,611
3	7089648,931	709674,447
4	7089647,381	709681,865
5	7089647,426	709683,665
6	7089648,426	709683,640
7	7089648,690	709694,128
8	7089647,690	709694,154
9	7089648,030	709708,287
10	7089649,046	709708,261
11	7089649,301	709718,402
12	7089648,302	709718,427
13	7089648,422	709723,207
14	7089649,422	709723,181
15	7089649,713	709734,756
16	7089648,730	709734,800
17	7089648,954	709744,334
18	7089650,000	709744,334
19	7089650,411	709762,493
20	7089649,412	709762,518
21	7089649,537	709767,486
22	7089650,536	709767,461
23	7089650,610	709770,386
24	7089649,610	709770,412
25	7089649,719	709774,735
26	7089650,719	709774,716
27	7089650,983	709785,209
28	7089650,000	709785,247
29	7089650,109	709789,563
30	7089651,092	709789,538
31	7089651,347	709799,645
32	7089650,347	709799,670
33	7089651,456	709803,975
34	7089650,456	709804,000
35	7089652,790	709856,962
36	7089651,790	709856,994
37	7089652,142	709859,096
38	7089654,287	709862,547
39	7089658,181	709864,574
40	7089660,383	709864,723
41	7089629,134	709673,360
42	7089629,162	709674,363
43	7089634,368	709675,119
44	7089634,167	709676,269
45	7089634,865	709675,553
46	7089635,714	709676,496
47	7089636,526	709677,779
48	7089637,138	709679,476
49	7089636,309	709679,120
50	7089637,697	709694,537
51	7089636,697	709694,563
52	7089637,849	709700,560
53	7089636,849	709700,585
54	7089638,342	709720,148
55	7089637,342	709720,173
56	7089638,462	709724,936
57	7089638,498	709726,354
58	7089638,660	709732,806
59	7089637,661	709732,831
60	7089638,820	709739,157
61	7089637,821	709739,182
62	7089639,557	709768,422
63	7089638,557	709768,449
64	7089639,606	709770,362
65	7089638,606	709770,388
66	7089639,703	709774,224
67	7089638,704	709774,250
68	7089639,860	709780,467
69	7089638,861	709780,492
70	7089640,067	709788,870

Ponto	N (m)	E (m)
71	7089639,072	709788,895
72	7089640,328	709799,025
73	7089639,328	709799,050
74	7089640,445	709803,854
75	7089639,449	709803,879
76	7089640,910	709822,169
77	7089639,911	709822,195
78	7089641,032	709826,986
79	7089640,032	709827,011
80	7089641,361	709840,087
81	7089640,362	709840,112
82	7089641,471	709844,451
83	7089640,472	709844,476
84	7089641,688	709853,081
85	7089640,689	709853,106
86	7089641,769	709857,851
87	7089641,849	709859,949
88	7089640,208	709863,845
89	7089635,949	709865,717
90	7089633,839	709865,795
91	7089660,784	709874,715
92	7089658,845	709875,013
93	7089655,197	709877,228
94	7089653,187	709881,095
95	7089653,034	709883,215
96	7089653,048	709883,678
97	7089653,180	709887,999
98	7089654,180	709887,968
99	7089654,415	709895,642
100	7089653,416	709895,673
101	7089653,878	709911,328
102	7089654,895	709911,297
103	7089655,020	709915,375
104	7089654,021	709915,406
105	7089654,238	709922,479
106	7089655,237	709922,448
107	7089655,611	709934,627
108	7089654,612	709934,659
109	7089654,739	709938,795
110	7089655,738	709938,765
111	7089656,515	709964,106
112	7089655,517	709964,138
113	7089655,674	709969,255
114	7089656,672	709969,225
115	7089656,837	709974,621
116	7089655,839	709974,654
117	7089655,969	709979,094
118	7089656,973	709979,063
119	7089657,170	709985,480
120	7089656,173	709985,513
121	7089656,300	709989,659
122	7089657,297	709989,629
123	7089657,625	710000,315
124	7089656,628	710000,349
125	7089656,752	710004,384
126	7089657,749	710004,356
127	7089658,247	710020,592
128	7089657,250	710020,626
129	7089657,374	710024,890
130	7089658,378	710024,860
131	7089659,112	710048,813
132	7089658,116	710048,844
133	7089634,327	709875,767
134	7089636,122	709875,899
135	7089640,530	709877,929
136	7089642,529	709880,933
137	7089643,034	709883,410
138	7089642,037	709883,503
139	7089642,253	709890,537
140	7089643,253	709890,511






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Relatório de auditoria final

2021-10-22

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Por:	Sirleide Dias (sirleide@engecorps.com.br)
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ANEXO II: PONTOS DE LOCAÇÃO DOS PODOTÁTEIS

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA ADOLFO HARDT		
Ponto	N (m)	E (m)
81	7089901,598	708983,685
82	7089902,673	708983,715
83	7089899,738	708985,849
84	7089899,682	708987,163
85	7089898,015	708999,450
86	7089898,065	708998,282

RUA AFONSO LENZI		
Ponto	N (m)	E (m)
199	7089722,888	709674,462
200	7089727,638	709675,269
201	7089711,567	709674,951
202	7089707,430	709675,087
203	7089731,294	709857,302
204	7089728,398	709857,398
205	7089732,468	709858,599
206	7089732,479	709860,753
207	7089714,676	709857,519
208	7089717,751	709857,426
209	7089713,345	709858,656
210	7089713,484	709862,007
211	7089733,249	709875,460
212	7089732,884	709873,865
213	7089732,036	709876,094
214	7089730,787	709876,129
215	7089714,085	709876,818
216	7089713,996	709874,667
217	7089714,845	709877,358
218	7089717,132	709877,226
219	14179445,873	1419348,799

RUA ALBERTO BEZ		
Ponto	N (m)	E (m)
69	7089200,846	709553,112
70	7089200,901	709554,248
71	7089201,219	709565,506
72	7089201,281	709566,806

RUA ALBERTO MIERS		
Ponto	N (m)	E (m)
322	7090053,527	708338,909
323	7090052,397	708338,964
324	7090036,761	708338,736
325	7090038,918	708338,63
326	7090036,229	708339,88
327	7090036,286	708341,767
328	7090056,078	708353,633
329	7090056,038	708352,512
330	7090054,722	708354,921
331	7090053,526	708354,95
332	7090038,877	708355,334
333	7090036,587	708353,224
334	7090040,041	708459,069
335	7090042,51	708459,044
336	7090039,299	708459,916
337	7090039,359	708462,413
338	7090058,098	708458,653
339	7090055,464	708458,68
340	7090059,151	708459,891
341	7090059,212	708462,176
342	7090059,859	708475,537
343	7090058,237	708475,577
344	7090060,596	708474,755
345	7090060,646	708473,635
346	7090042,264	708475,979
347	7090044,128	708475,933
348	7090040,214	708474,601
349	7090040,179	708473,176
350	7090043,216	708519,934

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA ALBERTO MIERS - CONTINUAÇÃO		
Ponto	N (m)	E (m)
351	7090045,226	708519,904
352	7090042,284	708521,219
353	7090042,338	708522,668
354	7090042,78	708534,51
355	7090042,732	708533,206
356	7090044,235	708536,04
357	7090046,09	708535,994
358	7090060,537	708518,991
359	7090058,61	708519,02
360	7090061,211	708536,441
361	7090059,401	708536,487
362	7090044,562	708580,91
363	7090044,628	708582,766
364	7090044,796	708594,738
365	7090044,746	708593,329
366	7090047,832	708607,968
367	7090050,139	708607,911
368	7090063,577	708607,219
369	7090061,398	708607,312
370	7090068,003	708689,215
371	7090066,269	708689,31
372	7090050,628	708690,562
373	7090052,596	708690,454
374	7090049,59	708692,351
375	7090049,756	708694,012
376	7090051,65	708706,831
377	7090051,523	708705,554
378	7090053,136	708707,812
379	7090054,256	708707,784
380	7090067,1	708708,593
381	7090065,809	708708,625
382	7090068,702	708761,684
383	7090067,619	708761,708
384	7090069,988	708762,494
385	7090070,042	708764,035
386	7090070,532	708777,856
387	7090070,485	708776,525
388	7090069,821	708778,632
389	7090068,618	708778,662
390	7090071,493	708834,668
391	7090070,293	708834,726
392	7090072,235	708850,677
393	7090071,191	708850,723
394	7090075,062	708905,027
395	7090073,727	708905,092
396	7090076,629	708905,988
397	7090076,664	708907,505
398	7090058,932	708908,153
399	7090061,6	708905,677
400	7090059,612	708920,676
401	7090059,562	708919,103
402	7090060,97	708921,277
403	7090062,347	708921,21
404	7090074,518	708920,594
405	7090077,036	708918,082
406	7090080,012	709061,246
407	7090078,696	709061,311
408	7090069,716	709136,332
409	7090071,675	709136,285
410	7090084,232	709135,492
411	7090082,14	709135,542
412	7090085,421	709136,126
413	7090085,507	709138,529
414	7090037,465	708355,364
415	7090036,608	708354,253
416	7090075,237	708920,572
417	7090077,068	708919,172
418	7090058,914	708907,353
419	7090060,98	708905,737

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA ALEX KRICELDORF (TRECHO 01)		
Ponto	N (m)	E (m)
80	7090081,486	709460,120
81	7090081,563	709462,454
82	7090082,205	709459,123
83	7090084,977	709459,031
84	7090100,674	709459,112
85	7090098,361	709459,285
86	7090101,968	709460,187
87	7090101,940	709461,958
88	7090101,814	709474,860
89	7090101,385	709472,313
90	7090100,713	709476,223
91	7090098,495	709476,285
92	7090082,082	709474,502
93	7090082,090	709473,188
94	7090083,798	709476,674
95	7090085,695	709476,670
96	7090084,557	709550,262
97	7090086,582	709550,239
98	7090083,584	709551,110
99	7090083,719	709552,622
100	7090102,211	709549,540
101	7090100,607	709549,745

RUA ALEX KRICELDORF (TRECHO 02)		
Ponto	N (m)	E (m)
173	7090088,210	709663,576
174	7090090,847	709663,501
175	7090106,838	709661,627
176	7090103,987	709661,708
177	7090093,348	709846,284
178	7090096,722	709846,188
179	7090111,753	709845,694
180	7090110,584	709845,732
181	7090112,720	709846,528
182	7090112,754	709847,610
183	7090113,192	709861,785
184	7090113,142	709860,155
185	7090109,924	709863,690
186	7090112,368	709863,592
187	7090095,144	709864,108
188	7090097,030	709864,055

RUA ANERY R. ROQUE		
Ponto	N (m)	E (m)
40	7089198,733	709495,081
41	7089198,647	709492,138
42	7089198,701	709479,774
43	7089198,619	709478,076
44	7089199,885	709477,681
45	7089201,825	709477,606

RUA ANTONIO BISCHOF		
Ponto	N (m)	E (m)
261	7089693,222	709091,677
262	7089695,115	709091,595
263	7089708,550	709091,893
264	7089706,607	709091,977
265	7089694,732	709147,632
266	7089696,398	709147,588
267	7089693,031	709149,653
268	7089693,036	709151,081
269	7089711,113	709147,191
270	7089708,939	709147,230
271	7089712,668	709149,157
272	7089712,750	709150,892
273	7089693,546	709162,764
274	7089693,500	709161,261
275	7089695,078	709164,418
276	7089697,535	709164,342
277	7089711,809	709164,047

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RUA ANTONIO BISCHOF - CONTINUAÇÃO		
Ponto	N (m)	E (m)
278	7089709,714	709164,129
279	7089712,916	709162,626
280	7089712,869	709161,104

RUA ARLINDO CORREA		
Ponto	N (m)	E (m)
288	7090215,118	708395,699
289	7090215,179	708397,42
290	7090213,56	708394,604
291	7090211,477	708394,716
292	7090215,815	708408,88
293	7090215,719	708407,376
294	7090213,611	708411,457
295	7090211,509	708411,57
296	7090196,782	708412,361
297	7090199,009	708412,242
298	7090194,581	708409,661
299	7090194,553	708407,899
300	7090194,382	708396,648
301	7090194,416	708397,913
302	7090196,054	708395,155
303	7090197,565	708395,083
304	7090057,352	708400,099
305	7090057,406	708401,626
306	7090055,706	708397,954
307	7090053,853	708397,955
308	7090058,498	708413,32
309	7090058,441	708411,714
310	7090056,222	708416,238
311	7090054,17	708416,239
312	7090039,547	708397,962
313	7090041,412	708397,961
314	7090036,667	708401,284
315	7090036,711	708402,724
316	7090036,974	708413,994
317	7090036,924	708412,383
318	7090039,348	708416,246
319	7090041,449	708416,245
320	7089900,286	708402,073
321	7089900,493	708405,859
322	7089897,228	708402,223
323	7089900,439	708420,964
324	7089898,192	708421,02
325	7089900,33	708417,885
326	7089882,959	708403,396
327	7089886,341	708403,221
328	7089883,054	708406,516
329	7089883,977	708417,1
330	7089884,068	708420,822
331	7089884,436	708421,426
332	7089887,726	708421,343

RUA AUGUSTO ECCEL		
Ponto	N (m)	E (m)
175	7090184,201	709659,491
176	7090184,056	709656,956
177	7090183,104	709659,859
178	7090180,466	709659,94
179	7090165,7	709661,275
180	7090167,613	709661,139
181	7090170,153	709843,377
182	7090172,006	709843,316
183	7090170,212	709845,309
184	7090171,284	709861,178
185	7090172,88	709861,133
186	7090171,238	709859,687
187	7090189,248	709861,333
188	7090187,171	709861,392
189	7090189,187	709859,336

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RUA BENTO TORQUATO DA ROCHA		
Ponto	N (m)	E (m)
392	7090783,955	709641,490
393	7090784,725	709639,197
394	7090783,818	709622,669
395	7090784,493	709624,727
396	7090259,452	709639,683
397	7090259,533	709643,268
398	7090239,466	709641,857
399	7090239,590	709644,524
400	7090182,680	709645,276
401	7090182,720	709646,550
402	7090105,603	709646,536
403	7090105,675	709648,850
404	7090042,686	709647,862
405	7090042,789	709650,976
406	7090043,225	709663,402
407	7090043,085	709660,577
408	7089879,042	709653,669
409	7089879,129	709656,483
410	7089650,641	709660,698
411	7089650,746	709663,968
412	7089498,991	709665,122
413	7089499,094	709668,539
414	7089346,033	709669,719
415	7089346,119	709673,178
416	7089224,307	709673,250
417	7089224,424	709676,184
418	7089224,814	709690,301
419	7089224,697	709687,381
420	7089222,048	709690,379
421	7089802,182	709656,965
422	7089802,252	709659,213

RUA BRÁULIO DE SÁ BARBOSA		
Ponto	N (m)	E (m)
275	7090219,128	708531,705
276	7090219,001	708529,771
277	7090216,110	708532,936
278	7090218,287	708532,897
279	7090218,255	708516,176
280	7090218,406	708518,475
281	7090217,368	708515,116
282	7090214,988	708515,158
283	7090201,469	708533,197
284	7090203,368	708533,163
285	7090200,270	708529,876
286	7090200,329	708531,315
287	7090199,780	708517,971
288	7090199,840	708519,432
289	7090200,921	708515,410
290	7090202,915	708515,374
291	7089888,200	708522,105
292	7089892,003	708522,037
293	7089887,713	708523,312
294	7089887,954	708526,640
295	7089887,969	708536,965
296	7089888,045	708540,069
297	7089888,814	708540,943
298	7089892,683	708540,874
299	7089905,780	708521,389
300	7089902,366	708521,450
301	7089906,478	708522,692
302	7089906,553	708526,073
303	7089906,606	708537,100
304	7089906,590	708540,117
305	7089903,768	708540,284
306	7089907,173	708540,579

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RUA CARLOS GUILHERME JERKE (TRECHO 01)		
Ponto	N (m)	E (m)
208	7090704,231	708748,879
209	7090704,129	708747,374
210	7090703,426	708737,002
211	7090703,335	708735,996
212	7090621,826	708753,326
213	7090621,833	708752,077
214	7090619,834	708755,026
215	7090618,729	708755,036
216	7090621,474	708740,914
217	7090621,439	708739,666
218	7090617,269	708736,870
219	7090618,596	708736,814
220	7090605,428	708755,593
221	7090607,159	708755,520
222	7090603,643	708753,946
223	7090603,586	708752,365
224	7090607,009	708737,299
225	7090605,714	708737,353
226	7090603,296	708742,108
227	7090603,240	708740,799
228	7090470,500	708759,939
229	7090470,479	708758,722
230	7090468,720	708761,643
231	7090467,640	708761,688
232	7090470,285	708747,420
233	7090470,261	708745,983
234	7090466,459	708743,539
235	7090467,720	708743,486
236	7090454,727	708762,229
237	7090455,853	708762,182
238	7090451,804	708760,181
239	7090451,737	708759,015
240	7090456,056	708743,975
241	7090454,672	708744,033
242	7090451,559	708748,646
243	7090451,499	708747,376

RUA CARLOS GUILHERME JERKE (TRECHO 02)		
Ponto	N (m)	E (m)
124	7090056,006	708780,458
125	7090057,361	708780,407
126	7090052,951	708777,683
127	7090052,947	708776,271
128	7090056,456	708761,771
129	7090055,163	708761,800
130	7090052,914	708765,531
131	7090052,910	708764,078

RUA CARLOS VITOR HARDT		
Ponto	N (m)	E (m)
177	7090861,301	708956,627
178	7090861,715	708953,872
179	7090862,238	708942,388
180	7090862,247	708940,852
181	7090478,893	708960,613
182	7090478,912	708961,498
183	7090476,421	708958,238
184	7090474,812	708958,295
185	7090464,187	708958,668
186	7090463,255	708958,707
187	7090460,320	708961,145
188	7090460,358	708962,697

RUA CILEZIO R. SILVEIRA		
Ponto	N (m)	E (m)
77	7090133,772	708534,696
78	7090132,560	708534,747
79	7090119,989	708535,261
80	7090121,309	708535,192
81	7090136,644	708613,981

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RUA CILEZIO R. SILVEIRA - CONTINUAÇÃO		
Ponto	N (m)	E (m)
82	7090135,344	708613,984
83	7090124,682	708613,984
84	7090123,310	708613,984
85	7090121,021	708616,872
86	7090121,032	708618,348

RUA COMANDANTE KARL BUSCH		
Ponto	N (m)	E (m)
302	7089943,863	709358,863
303	7089942,549	709358,787
304	7089931,590	709359,357
305	7089930,544	709359,428
306	7089950,030	709465,481
307	7089950,034	709467,327
308	7089947,123	709463,226
309	7089945,358	709463,281
310	7089934,622	709463,281
311	7089933,632	709463,249
312	7089930,506	709466,174
313	7089930,608	709467,428
314	7089950,339	709477,155
315	7089950,377	709478,352
316	7089948,392	709479,901
317	7089946,849	709479,977
318	7089933,634	709480,625
319	7089931,861	709480,819
320	7089931,070	709480,140
321	7089931,008	709478,440
322	7089952,345	709555,341
323	7089952,434	709558,055
324	7089951,261	709554,331
325	7089948,512	709554,445
326	7089935,478	709554,445
327	7089936,576	709554,445
328	7089952,591	709570,308
329	7089952,554	709568,736
330	7089951,122	709571,656
331	7089949,501	709571,770
332	7089935,814	709572,729
333	7089934,371	709572,830
334	7089954,333	709648,955
335	7089950,950	709649,421
336	7089955,418	709649,785
337	7089955,403	709653,306
338	7089955,829	709664,093
339	7089955,952	709667,723
340	7089955,389	709668,166
341	7089951,739	709668,177
342	7089939,234	709649,882
343	7089936,275	709649,737
344	7089934,812	709651,106
345	7089935,118	709654,251
346	7089939,378	709669,081
347	7089936,769	709669,432
348	7089935,539	709664,923
349	7089935,488	709668,282
350	7089960,634	709848,905
351	7089958,132	709849,080
352	7089961,509	709850,078
353	7089961,566	709853,297
354	7089961,719	709866,710
355	7089961,786	709868,383
356	7089960,583	709869,981
357	7089958,530	709870,125
358	7089945,602	709849,959
359	7089943,302	709850,120
360	7089940,191	709852,233
361	7089940,245	709854,325
362	7089945,831	709871,016
363	7089944,115	709871,136

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RUA COMANDANTE KARL BUSCH - CONTINUAÇÃO		
Ponto	N (m)	E (m)
364	7089940,720	709866,350
365	7089940,706	709868,534

RUA DANTE NAZATO		
Ponto	N (m)	E (m)
307	7090238,831	709132,279
308	7090238,855	709133,054
309	7090239,230	709142,663
310	7090239,252	709143,389
311	7090085,331	709148,172
312	7090085,319	709149,283
313	7089878,091	709144,317
314	7089878,091	709144,930
315	7089877,933	709155,593
316	7089877,933	709156,087
317	7089789,990	709147,934
318	7089790,009	709147,447
319	7089634,889	709153,379
320	7089634,889	709152,766
321	7089484,521	709157,928
322	7089484,521	709158,333
323	7089331,334	709163,399
324	7089331,334	709163,837
325	7089233,010	709165,855
326	7089233,010	709166,592
327	7089232,991	709179,657
328	7089232,991	709180,297

RUA DELIRIO BERTEL		
Ponto	N (m)	E (m)
25	7090646,364	709530,966
26	7090645,631	709531,032
27	7090634,401	709531,117
28	7090633,608	709531,117

RUA DR MAURO MOURA		
Ponto	N (m)	E (m)
192	7090067,667	709060,539
193	7090068,390	709060,539
194	7090065,522	709063,438
195	7090065,522	709064,512
196	7090066,451	709076,143
197	7090066,495	709076,827

RUA EDSON A. DA SILVA		
Ponto	N (m)	E (m)
68	7089217,389	709944,658
69	7089217,444	709945,942
70	7089217,543	709957,175
71	7089217,635	709959,306

RUA ERNESTO HANCH		
Ponto	N (m)	E (m)
123	7089807,157	709671,711
124	7089800,405	709671,903
125	7089787,294	709673,430
126	7089783,537	709673,536
127	7089809,198	709855,519
128	7089809,277	709858,086
129	7089808,531	709854,654
130	7089805,897	709855,225
131	7089793,388	709856,365
132	7089791,460	709856,429
133	7089790,414	709857,625
134	7089790,479	709859,727
135	7089809,015	709873,703
136	7089809,234	709871,255
137	7089806,674	709874,231
138	7089793,022	709874,133
139	7089790,177	709874,317

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RUA ERNESTO HANCH - CONTINUAÇÃO		
Ponto	N (m)	E (m)
140	7089790,104	709871,938

RUA EWALDO EICHOLZ		
Ponto	N (m)	E (m)
95	7090694,861	708592,045
96	7090694,920	708593,985
97	7090695,554	708604,233
98	7090695,530	708605,455
99	7090716,718	708716,941
100	7090715,499	708716,988
101	7090706,038	708717,558
102	7090704,789	708717,650

RUA FRANCISCO MOSER		
Ponto	N (m)	E (m)
343	7090825,132	709176,692
344	7090824,838	709178,347
345	7090821,890	709190,378
346	7090822,112	709189,127
347	7089789,318	709228,373
348	7089789,383	709229,723
349	7089789,767	709241,564
350	7089789,709	709240,348

RUA HAROLD C. MIERS		
Ponto	N (m)	E (m)
227	7090229,736	708830,969
228	7090229,507	708827,656
229	7090229,195	708827,034
230	7090226,076	708827,034
231	7090214,737	708827,034
232	7090212,458	708827,025
233	7090210,410	708832,081
234	7090210,230	708829,494
235	7090058,992	708851,948
236	7090059,766	708851,872
237	7090056,586	708849,602
238	7090056,620	708848,961
239	7090059,570	708834,768
240	7090058,308	708834,714
241	7090056,620	708838,020
242	7090056,654	708836,732

RUA HEINZI ZIETZ		
Ponto	N (m)	E (m)
262	7089907,859	708583,218
263	7089905,467	708583,365
264	7089908,070	708583,839
265	7089908,114	708586,022
266	7089895,472	708583,628
267	7089891,446	708583,761
268	7089908,436	708599,633
269	7089908,458	708596,427
270	7089905,516	708599,924
271	7089896,264	708600,230
272	7089893,126	708600,334
273	7089911,798	708697,167
274	7089910,784	708697,223
275	7089912,649	708697,977
276	7089912,669	708699,343
277	7089913,094	708711,778
278	7089913,046	708710,765
279	7089911,723	708713,881
280	7089910,409	708713,932
281	7089913,843	708769,610
282	7089913,068	708769,643
283	7089915,765	708771,413
284	7089915,771	708772,146
285	7089916,116	708782,601
286	7089916,157	708783,827

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RUA HEINZI ZIETZ - CONTINUAÇÃO		
Ponto	N (m)	E (m)
287	7089914,744	708787,099
288	7089913,912	708787,126
289	7089902,917	708769,979
290	7089902,046	708770,008
291	7089899,497	708772,346
292	7089899,530	708773,369
293	7089903,715	708787,464
294	7089902,805	708787,494
295	7089899,871	708783,663
296	7089899,900	708784,536
297	7089917,114	708841,677
298	7089916,165	708841,650
299	7089905,931	708841,989
300	7089905,186	708842,014
301	7089902,339	708844,614
302	7089902,380	708845,855
303	7089917,928	708859,036
304	7089916,950	708859,012
305	7089906,881	708859,345
306	7089905,537	708859,389
307	7089902,694	708855,360
308	7089902,720	708856,330
309	7089918,588	708912,135
310	7089918,382	708914,235
311	7089917,329	708910,983
312	7089915,979	708911,043
313	7089904,852	708911,411
314	7089903,659	708911,395
315	7089917,837	708926,594
316	7089917,881	708925,605
317	7089915,864	708929,092
318	7089914,994	708929,120
319	7089904,463	708929,469
320	7089903,445	708929,503
321	7089913,843	708983,886
322	7089912,640	708983,933
323	7089901,507	708983,180
324	7089902,372	708983,230
325	7089898,252	708986,459
326	7089898,252	708987,358
327	7089898,253	708998,683
328	7089898,279	708999,883
329	7089911,335	709065,900
330	7089910,178	709065,939
331	7089913,190	709068,385
332	7089913,225	709069,863
333	7089913,191	709083,345
334	7089913,191	709081,917
335	7089911,842	709085,283
336	7089910,645	709085,323
337	7089899,778	709066,283
338	7089898,634	709066,321
339	7089895,861	709069,856
340	7089895,862	709071,127
341	7089899,785	709085,682
342	7089898,435	709085,727
343	7089895,862	709082,048
344	7089895,862	709083,111
345	7089913,090	709139,551
346	7089911,379	709139,608
347	7089900,611	709140,021
348	7089899,433	709140,003

RUA HERCÍLIO J. DA SILVA		
Ponto	N (m)	E (m)
51	7089219,953	710016,812
52	7089219,995	710018,037
53	7089220,376	710029,244
54	7089220,420	710030,541

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA HERMINIO DAGNONI		
Ponto	N (m)	E (m)
143	7089634,785	709164,780
144	7089634,706	709163,778
145	7089633,604	709166,961
146	7089632,280	709167,015
147	7089621,651	709167,452
148	7089620,289	709167,565
149	7089639,010	709351,250
150	7089637,316	709351,274
151	7089641,424	709353,517
152	7089641,424	709355,199
153	7089641,424	709365,303
154	7089641,424	709366,665
155	7089639,362	709368,935
156	7089638,328	709368,920
157	7089627,670	709351,274
158	7089626,357	709351,253
159	7089624,636	709353,952
160	7089624,636	709355,639
161	7089627,573	709368,920
162	7089625,905	709368,932
163	7089624,636	709366,108
164	7089624,557	709367,629
165	7089645,305	709476,289
166	7089645,355	709477,658
167	7089642,702	709474,165
168	7089641,201	709474,212
169	7089645,714	709487,470
170	7089645,782	709489,323
171	7089644,764	709490,074
172	7089641,923	709490,163
173	7089631,156	709474,525
174	7089629,541	709474,575
175	7089627,390	709476,893
176	7089627,436	709478,166
177	7089631,022	709490,523
178	7089628,316	709490,593
179	7089627,799	709488,068
180	7089627,891	709490,323

RUA HILDO NOVAES		
Ponto	N (m)	E (m)
141	7090462,601	708600,106
142	7090461,327	708600,107
143	7090465,147	708602,858
144	7090465,171	708603,734
145	7090465,489	708615,382
146	7090465,465	708614,502
147	7090463,454	708617,169
148	7090462,451	708617,163
149	7090449,194	708600,588
150	7090450,429	708600,539
151	7090446,332	708603,259
152	7090446,373	708604,757
153	7090450,265	708617,646
154	7090448,896	708617,700
155	7090446,656	708615,118
156	7090446,687	708616,243
157	7090465,644	708671,757
158	7090463,667	708671,841
159	7090466,624	708673,386
160	7090466,676	708675,291
161	7090467,019	708687,841
162	7090466,991	708686,818
163	7090465,625	708689,866
164	7090464,442	708689,912
165	7090453,610	708672,233
166	7090452,430	708672,285
167	7090450,072	708675,564
168	7090450,103	708676,697
169	7090453,288	708690,354

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA HILDO NOVAES - CONTINUAÇÃO		
Ponto	N (m)	E (m)
170	7090452,163	708690,399
171	7090450,398	708687,516
172	7090450,433	708688,774
173	7090472,755	708818,360
174	7090472,816	708819,918
175	7090470,397	708816,115
176	7090468,469	708816,224
177	7090472,847	708830,483
178	7090472,862	708832,432
179	7090471,240	708834,155
180	7090469,930	708834,162
181	7090458,731	708816,423
182	7090458,073	708816,437
183	7090455,111	708819,517
184	7090455,121	708820,854
185	7090459,122	708834,384
186	7090457,802	708834,411
187	7090455,194	708830,560
188	7090455,204	708831,834
189	7090473,225	708886,161
190	7090471,930	708886,232
191	7090475,621	708888,271
192	7090475,624	708889,400
193	7090475,997	708899,527
194	7090476,079	708901,642
195	7090474,352	708903,245
196	7090472,080	708903,381
197	7090478,858	708973,143
198	7090478,851	708971,968
199	7090476,408	708975,416
200	7090475,302	708975,498
201	7090464,425	708976,420
202	7090463,183	708976,541
203	7090461,202	708973,316
204	7090461,202	708974,511
205	7090481,837	709037,254
206	7090481,843	709038,377
207	7090478,170	709034,210
208	7090477,036	709034,210
209	7090481,843	709048,968
210	7090481,839	709049,922
211	7090479,408	709052,654
212	7090478,622	709052,712
213	7090466,773	709034,210
214	7090465,767	709034,210
215	7090463,581	709037,180
216	7090463,588	709038,424
217	7090463,770	709048,985
218	7090463,750	709050,281
219	7090468,251	709052,712
220	7090466,736	709052,712
221	7090484,325	709122,374
222	7090484,319	709124,123
223	7090482,782	709120,724
224	7090480,874	709120,772
225	7090469,916	709121,046
226	7090468,697	709121,078

RUA JACOBUS FELTHAUS		
Ponto	N (m)	E (m)
66	7089199,298	709445,203
67	7089200,77	709475,401
68	7089207,157	709673,827
69	7089208,635	709675,386
70	7089208,689	709677,698
71	7089207,364	709679,393
72	7089207,797	709690,406
73	7089209,746	709690,333

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA JOÃO CARLOS G. DE OLIVEIRA (TRECHO 01)		
Ponto	N (m)	E (m)
88	7090210,396	708332,906
89	7090208,540	708332,958
90	7090211,933	708334,691
91	7090212,096	708337,047
92	7090212,864	708348,109
93	7090213,034	708350,552
94	7090212,155	708351,668
95	7090209,641	708351,712
96	7090196,635	708351,941
97	7090194,021	708351,987
98	7090192,699	708350,550
99	7090192,667	708348,537
100	7090191,942	708337,631
101	7090191,921	708336,335
102	7090193,579	708334,442
103	7090195,299	708334,388
104	7090214,231	708453,812
105	7090212,202	708453,935
106	7090216,322	708456,954
107	7090216,347	708458,457
108	7090216,518	708469,005
109	7090216,539	708470,297
110	7090215,202	708472,434
111	7090213,238	708472,495
112	7090200,171	708472,904
113	7090199,053	708472,872
114	7090196,534	708470,758
115	7090196,518	708469,764
116	7090196,333	708458,352
117	7090196,310	708456,941
118	7090198,067	708454,377
119	7090199,637	708454,328

RUA JOÃO CARLOS G. DE OLIVEIRA (TRECHO 02)		
Ponto	N (m)	E (m)
82	7090229,477	708840,235
83	7090229,509	708841,553
84	7090228,967	708844,333
85	7090226,861	708844,420
86	7090211,451	708841,475
87	7090211,481	708842,938
88	7090213,142	708844,988
89	7090214,774	708844,816
90	7090229,206	708896,217
91	7090231,074	708896,140
92	7090232,668	708898,054
93	7090232,741	708900,244
94	7090233,311	708911,091
95	7090233,447	708913,697
96	7090232,798	708914,462
97	7090230,392	708914,504
98	7090217,348	708915,044
99	7090215,301	708915,129
100	7090213,785	708913,716
101	7090213,682	708911,758
102	7090213,131	708901,271
103	7090213,079	708899,868
104	7090214,633	708898,124
105	7090216,219	708898,052
106	7090232,358	708969,384
107	7090234,733	708969,269
108	7090235,978	708970,646
109	7090236,071	708972,432
110	7090236,642	708983,294
111	7090236,761	708985,559
112	7090235,769	708986,957
113	7090233,203	708987,063
114	7090220,217	708987,600
115	7090218,275	708987,607
116	7090217,182	708985,917

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA JOÃO CARLOS G. DE OLIVEIRA (TRECHO 02) - CONTINUAÇÃO		
Ponto	N (m)	E (m)
117	7090217,110	708984,535
118	7090216,498	708972,884
119	7090216,439	708971,768
120	7090217,825	708969,914
121	7090219,008	708969,937

RUA JOÃO SANCHO MOREIRA		
Ponto	N (m)	E (m)
141	7089905,392	708479,422
142	7089905,324	708477,514
143	7089904,370	708480,982
144	7089900,781	708481,038
145	7089890,636	708481,378
146	7089886,970	708481,500
147	7089885,619	708463,414
148	7089889,876	708463,240
149	7089900,861	708462,873
150	7089903,684	708462,820
151	7089904,860	708464,446
152	7089904,908	708465,778

RUA JOAQUIM GIRARDI		
Ponto	N (m)	E (m)
141	7090782,448	709543,143
142	7090782,552	709541,156
143	7090782,024	709527,262
144	7090781,987	709524,906
145	7090085,075	709564,605
146	7090085,064	709563,478

RUA JUVENTINO JOSE DA SILVA JR		
Ponto	N (m)	E (m)
35	7090451,155	708328,569
36	7090452,106	708328,539
37	7090452,590	708328,993
38	7090452,622	708329,982
39	7090453,345	708340,917
40	7090453,065	708343,120
41	7090451,002	708343,177
42	7090440,162	708343,476
43	7090438,662	708343,517
44	7090437,035	708328,654
45	7090438,372	708328,617

RUA LEOPOLDO BENINCA		
Ponto	N (m)	E (m)
78	7090260,675	709656,486
79	7090260,675	709657,321
80	7090258,917	709658,876
81	7090257,807	709659,036
82	7090241,923	709660,294
83	7090241,122	709660,377
84	7090239,682	709658,615
85	7090239,682	709657,622
86	7090262,347	709841,298
87	7090263,763	709841,298

RUA LUCIANO DE O. CERCAL		
Ponto	N (m)	E (m)
52	7089209,690	709797,037
53	7089209,751	709798,679
54	7089210,009	709810,159
55	7089210,072	709811,858

RUA MANOEL MAURÍCIO FILHO		
Ponto	N (m)	E (m)
141	7089879,291	709667,075
142	7089879,128	709669,614
143	7089877,058	709669,692
144	7089864,336	709671,690

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA MANOEL MAURÍCIO FILHO - CONTINUAÇÃO		
Ponto	N (m)	E (m)
145	7089862,591	709671,652
146	7089885,181	709853,580
147	7089885,181	709856,207
148	7089883,844	709852,651
149	7089881,076	709852,651
150	7089868,650	709852,859
151	7089866,231	709852,859
152	7089865,114	709854,714
153	7089865,114	709857,094
154	7089885,477	709868,800
155	7089885,477	709870,154
156	7089883,222	709872,494
157	7089882,402	709872,494
158	7089865,333	709869,412
159	7089865,333	709872,736
160	7089869,745	709873,289
161	7089866,219	709873,289

RUA MARCIO LUCKOW		
Ponto	N (m)	E (m)
51	7089899,483	708714,492
52	7089898,848	708714,492
53	7089898,947	708697,609
54	7089898,340	708697,609

RUA MARCOS JOÃO SERAFIM		
Ponto	N (m)	E (m)
281	7090798,804	709326,161
282	7090798,804	709324,877
283	7090800,943	709312,952
284	7090800,943	709311,997
285	7090711,146	709314,125
286	7090710,723	709314,125
287	7090702,783	709314,538
288	7090702,247	709314,538
289	7090698,022	709316,311
290	7090697,873	709317,663
291	7090697,732	709327,917
292	7090697,753	709328,476
293	7090336,408	709327,132
294	7090336,438	709328,012
295	7089791,629	709347,688
296	7089790,066	709347,688
297	7089778,579	709347,693
298	7089777,382	709347,693
299	7089775,853	709349,024
300	7089775,853	709350,189
301	7089717,067	709362,315
302	7089717,067	709365,414
303	7089714,535	709365,624
304	7089703,287	709366,799
305	7089700,168	709366,594
306	7089700,082	709362,752
307	7089699,609	709353,558
308	7089699,580	709350,308
309	7089702,689	709350,308
310	7089714,091	709349,204
311	7089717,067	709349,479
312	7089717,067	709352,849
313	7089240,242	709380,848
314	7089240,242	709380,279
315	7089239,336	709368,681
316	7089239,336	709368,027

RUA MARQUES DE MARICA		
Ponto	N (m)	E (m)
43	7090461,747	708904,022
44	7090461,325	708904,022
45	7090458,817	708901,723
46	7090458,817	708901,324

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA MARQUES DE MARICA - CONTINUAÇÃO		
Ponto	N (m)	E (m)
47	7090458,349	708890,063
48	7090458,349	708889,852
49	7090460,739	708886,684
50	7090461,161	708886,684

RUA MIRKO MAYERLE		
Ponto	N (m)	E (m)
227	7090613,841	708593,899
228	7090613,076	708593,926
229	7090615,672	708595,549
230	7090615,702	708596,384
231	7090599,811	708594,912
232	7090600,576	708594,885
233	7090598,252	708596,140
234	7090598,284	708597,010
235	7090598,678	708609,290
236	7090598,705	708610,056
237	7090599,715	708610,698
238	7090600,584	708610,667
239	7090616,271	708608,430
240	7090616,301	708609,266
241	7090614,821	708610,437
242	7090613,883	708610,470
243	7090615,956	708665,519
244	7090615,261	708665,544
245	7090617,088	708667,849
246	7090617,121	708668,753
247	7090618,098	708680,495
248	7090618,141	708681,713
249	7090617,203	708683,008
250	7090616,136	708683,074
251	7090604,693	708683,483
252	7090603,650	708683,520
253	7090602,698	708682,196
254	7090602,642	708680,630
255	7090602,852	708669,960
256	7090602,787	708668,783
257	7090603,997	708665,982
258	7090604,832	708665,952
259	7090621,854	708809,765
260	7090620,527	708809,829
261	7090622,871	708810,979
262	7090622,938	708812,857
263	7090606,520	708812,846
264	7090606,480	708811,733
265	7090607,482	708810,515
266	7090609,179	708809,842
267	7090623,424	708824,503
268	7090623,287	708825,407
269	7090622,245	708826,523
270	7090621,521	708826,549
271	7090606,867	708825,840
272	7090606,831	708824,819
273	7090607,863	708826,708
274	7090608,686	708826,679
275	7090623,008	708879,636
276	7090622,203	708879,665
277	7090625,418	708882,082
278	7090625,454	708883,074
279	7090626,595	708893,872
280	7090626,642	708895,175
281	7090624,958	708896,475
282	7090624,091	708896,506
283	7090611,261	708896,694
284	7090610,575	708896,716
285	7090609,321	708895,698
286	7090609,293	708894,913
287	7090608,940	708884,301
288	7090608,812	708880,729
289	7090609,314	708880,271

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA MIRKO MAYERLE - CONTINUAÇÃO		
Ponto	N (m)	E (m)
290	7090612,501	708880,157
291	7090626,272	708951,341
292	7090625,542	708951,372
293	7090628,598	708953,219
294	7090628,622	708953,881
295	7090628,295	708966,198
296	7090628,317	708966,827
297	7090626,537	708968,886
298	7090626,041	708968,904
299	7090613,868	708968,538
300	7090613,305	708968,558
301	7090612,808	708968,419
302	7090612,742	708967,259
303	7090611,116	708954,462
304	7090611,101	708954,031
305	7090612,498	708952,503
306	7090613,127	708952,480
307	7090628,373	709015,188
82	7090627,507	709015,219
83	7090616,420	709015,697
84	7090615,758	709015,720

RUA NOSSA SENHORA DO CARMO		
Ponto	N (m)	E (m)
76	7089499,797	709679,287
77	7089499,927	709681,093
78	7089498,824	709681,698
79	7089497,399	709681,698
80	7089483,778	709682,593
81	7089479,863	709682,593
82	7089502,787	709865,450
83	7089501,699	709865,450
84	7089504,112	709866,407
85	7089504,112	709867,771
86	7089488,559	709865,799
87	7089487,183	709865,799

RUA OLIVIO MENEZES		
Ponto	N (m)	E (m)
116	7090320,461	709393,232
117	7090320,454	709392,962
118	7090319,690	709382,289
119	7090319,611	709381,211
120	7089947,131	709407,882
121	7089946,987	709406,415
122	7089946,565	709395,884
123	7089946,561	709394,778

RUA ORESTES GIRARDI		
Ponto	N (m)	E (m)
26	7090564,651	709298,522
27	7090564,622	709297,694
28	7090561,787	709288,710
29	7090561,835	709289,556

RUA PAULINO DE JESUS		
Ponto	N (m)	E (m)
109	7090030,081	709665,582
110	7090027,362	709665,626
111	7090016,132	709665,199
112	7090009,820	709665,274
113	7090039,162	709866,087
114	7090035,376	709866,106
115	7090020,413	709866,461
116	7090017,851	709866,732

PREFEITURA MUNICIPAL DE JOINVILLE
DRENAGEM SUSTENTÁVEL - VILA NOVA
PONTOS DE LOCAÇÃO - PODOTÁTEIS

RUA PETRONILHA DE SOUZA FORTUNATO (TRECHO 01)		
Ponto	N (m)	E (m)
281	7090246,350	709841,392
282	7090246,451	709843,512
283	7090247,137	709856,706
284	7090247,222	709858,923
285	7090188,731	709842,227
286	7090188,631	709845,496
287	7090170,566	709842,194
288	7090170,563	709844,587
289	7090035,564	709846,483
290	7090035,514	709849,254
291	7090019,089	709846,999
292	7090019,246	709849,964
293	7089579,569	709860,179
294	7089579,582	709864,898
295	7089563,291	709861,184
296	7089563,300	709863,859
297	7089504,559	709880,099
298	7089504,669	709882,089

RUA PETRONILHA DE SOUZA FORTUNATO (TRECHO 02)		
Ponto	N (m)	E (m)
41	7089212,684	709869,273
42	7089212,869	709870,835
43	7089214,133	709884,211
44	7089214,428	709886,704

RUA PROF. THEODORO BOING		
Ponto	N (m)	E (m)
67	7090855,049	709006,408
68	7090854,665	709008,871
69	7090850,768	709020,862
70	7090850,608	709021,374

RUA RENATO SCHEUNEMANN		
Ponto	N (m)	E (m)
85	7090244,360	708624,928
86	7090244,291	708623,968
87	7090244,498	708611,757
88	7090244,493	708611,277
89	7090221,684	708628,770
90	7090218,333	708628,913
91	7090205,489	708628,971
92	7090204,720	708629,040
93	7090202,816	708627,312
94	7090202,781	708626,478
95	7090201,652	708614,543
96	7090201,605	708613,428
97	7090122,745	708629,279
98	7090122,769	708629,814

RUA RENATO SCHEUNEMANN		
Ponto	N (m)	E (m)
99	7090066,970	708632,345
100	7090067,074	708633,529
101	7090067,033	708621,044
102	7090067,033	708620,171

RUA RODRIGO BAUMER		
Ponto	N (m)	E (m)
96	7089790,711	709158,415
97	7089790,826	709159,294
98	7089786,283	709161,966
99	7089784,706	709161,922
100	7089773,831	709162,260
101	7089772,879	709162,289
102	7089790,968	709363,707
103	7089789,842	709363,736
104	7089779,873	709363,916
105	7089778,155	709363,857

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RUA RUDOLF BAUMER		
Ponto	N (m)	E (m)
416	7090779,732	709451,173
417	7090780,067	709449,480
418	7090779,701	709437,969
419	7090779,230	709436,319
420	7090646,432	709454,777
421	7090646,472	709453,538
422	7090645,360	709455,418
423	7090644,543	709455,423
424	7090645,144	709442,131
425	7090645,144	709443,277
426	7090630,393	709455,455
427	7090629,701	709455,451
428	7090496,156	709447,356
429	7090496,183	709448,218
430	7089797,704	709470,654
431	7089797,704	709471,678
432	7089796,290	709469,871
433	7089795,373	709469,940
434	7089797,178	709482,581
435	7089797,222	709483,334
436	7089782,561	709470,024
437	7089781,986	709470,024
438	7089718,220	709471,892
439	7089720,030	709471,892
440	7089720,898	709473,171
441	7089720,898	709474,589
442	7089722,414	709485,285
443	7089722,414	709486,662
444	7089721,629	709487,130
445	7089719,056	709487,130
446	7089705,711	709471,533
447	7089703,483	709471,533
448	7089702,911	709472,902
449	7089702,827	709475,352
450	7089702,255	709486,245
451	7089702,255	709487,507
452	7089703,015	709487,783
453	7089705,917	709487,783
454	7089645,776	709476,905
455	7089645,776	709477,524
456	7089646,074	709488,087
457	7089646,183	709489,121
458	7089643,981	709490,875
459	7089642,265	709490,899
460	7089630,756	709490,938
461	7089628,975	709491,128
462	7089628,243	709490,337
463	7089628,243	709488,824
464	7089627,602	709477,700
465	7089627,602	709476,904
466	7089568,410	709477,314
467	7089566,728	709477,314
468	7089569,834	709478,355
469	7089569,800	709479,634
470	7089570,197	709491,413
471	7089570,197	709492,328
472	7089569,731	709492,926
473	7089568,292	709493,002
474	7089553,735	709493,528
475	7089551,984	709493,520
476	7089550,897	709492,476
477	7089550,912	709491,345
478	7089550,023	709479,461
479	7089550,023	709478,067
480	7089551,400	709476,531
481	7089552,970	709476,531
482	7089492,767	709479,484
483	7089492,767	709480,228
484	7089491,523	709478,303
485	7089490,749	709478,303

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RUA RUDOLF BAUMER - CONTINUAÇÃO		
Ponto	N (m)	E (m)
486	7089493,724	709492,621
487	7089493,724	709493,395
488	7089492,566	709494,510
489	7089491,703	709494,510
490	7089478,019	709496,038
491	7089477,245	709496,038
492	7089476,241	709495,470
493	7089476,252	709494,851
494	7089475,499	709482,539
495	7089475,488	709480,668
496	7089478,318	709479,306
497	7089476,503	709479,306
498	7089417,409	709482,478
499	7089416,244	709482,487
500	7089418,455	709483,345
501	7089418,455	709484,354
502	7089419,033	709496,141
503	7089419,033	709497,075
504	7089417,954	709497,879
505	7089416,840	709497,903
506	7089400,920	709498,374
507	7089399,092	709498,383
508	7089397,941	709497,751
509	7089397,937	709496,313
510	7089398,637	709484,983
511	7089398,608	709483,892
512	7089400,172	709481,915
513	7089401,313	709481,915
514	7089361,076	709486,170
515	7089361,102	709486,894
516	7089361,327	709497,369
517	7089361,359	709498,228
518	7089339,434	709484,491
519	7089338,717	709484,491
520	7089326,018	709485,020
521	7089325,320	709485,020
522	7089240,626	709487,946
523	7089239,925	709487,946
524	7089227,376	709488,269
525	7089226,751	709488,269
526	7089217,967	709490,113
527	7089217,931	709491,116
528	7089218,508	709503,392
529	7089218,508	709503,867

RUA SÃO BENTO		
Ponto	N (m)	E (m)
56	7089422,898	709684,348
57	7089421,058	709684,396
58	7089407,437	709684,381
59	7089404,509	709684,991

RUA SÃO GABRIEL ARCANJO		
Ponto	N (m)	E (m)
413	7089557,881	709098,023
414	7089556,320	709098,023
415	7089541,437	709097,243
416	7089542,929	709097,243
417	7089557,654	709152,550
418	7089559,458	709152,553
419	7089560,325	709153,752
420	7089560,325	709155,158
421	7089542,371	709152,382
422	7089543,650	709152,382
423	7089541,444	709153,782
424	7089541,444	709155,926
425	7089541,289	709168,073
426	7089541,289	709169,479
427	7089542,002	709170,398
428	7089543,933	709170,398

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RUA SÃO GABRIEL ARCANJO - CONTINUAÇÃO		
Ponto	N (m)	E (m)
429	7089558,920	709169,008
430	7089560,219	709169,008
431	7089561,199	709167,995
432	7089561,168	709166,899
433	7089565,586	709354,457
434	7089563,779	709354,457
435	7089566,686	709355,275
436	7089566,686	709357,319
437	7089566,440	709369,089
438	7089566,542	709370,549
439	7089565,560	709372,719
440	7089563,518	709372,719
441	7089549,667	709373,043
442	7089548,118	709373,043
443	7089547,263	709371,819
444	7089547,292	709370,523
445	7089547,324	709357,649
446	7089547,324	709355,500
447	7089547,984	709354,350
448	7089549,358	709354,350
449	7089571,085	709662,381
450	7089574,495	709662,350
451	7089574,700	709665,561
452	7089575,164	709675,845
453	7089575,761	709679,882
454	7089571,724	709679,922
455	7089558,920	709663,229
456	7089555,755	709663,112
457	7089555,755	709666,174
458	7089555,712	709676,246
459	7089555,712	709679,782
460	7089556,796	709680,197
461	7089560,027	709680,064
462	7089581,464	709879,947
463	7089581,494	709880,485
464	7089580,530	709881,915
465	7089579,530	709881,940
466	7089566,572	709881,664
467	7089562,705	709881,888
468	7089561,831	709881,337
469	7089561,791	709877,972

RUA SÃO VENANCIO FORTUNATO		
Ponto	N (m)	E (m)
60	7089347,842	709682,864
61	7089347,797	709685,783
62	7089347,067	709686,692
63	7089343,656	709686,687
64	7089331,159	709686,842
65	7089328,065	709686,834

RUA SÃO VIGILIO		
Ponto	N (m)	E (m)
141	7089651,713	709673,987
142	7089651,937	709677,079
143	7089650,533	709677,781
144	7089648,504	709677,853
145	7089635,855	709677,677
146	7089631,857	709678,054
147	7089656,026	709860,222
148	7089653,868	709860,279
149	7089657,356	709861,235
150	7089657,379	709863,246
151	7089639,061	709861,297
152	7089641,000	709861,298
153	7089637,662	709862,561
154	7089637,741	709864,616
155	7089658,149	709876,329
156	7089658,185	709879,049
157	7089657,466	709880,038

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RUA SÃO VIGILIO - CONTINUAÇÃO		
Ponto	N (m)	E (m)
158	7089654,775	709879,854
159	7089637,914	709877,382
160	7089637,914	709879,790
161	7089638,693	709880,469
162	7089641,134	709880,469

RUA SEM DENOMINAÇÃO 04		
Ponto	N (m)	E (m)
20	7090579,186	709319,369
21	7090578,132	709319,455
22	7090570,928	709320,260
23	7090569,360	709320,188

RUA SOELI A. USSINGER		
Ponto	N (m)	E (m)
40	7090496,230	709459,036
41	7090496,176	709461,125
42	7090495,496	709461,852
43	7090493,346	709461,936
44	7090480,914	709461,610
45	7090479,480	709461,623
46	7090484,334	709533,429
47	7090483,334	709533,462
48	7090494,177	709533,089
49	7090495,394	709533,063
50	7090498,672	709538,033
51	7090498,597	709539,213
52	7090498,739	709550,446
53	7090498,766	709551,994
54	7090497,156	709553,831
55	7090495,719	709553,867
56	7090484,378	709554,043
57	7090482,708	709553,932

RUA VALDEMAR HESSE		
Ponto	N (m)	E (m)
43	7090844,395	708686,970
44	7090844,579	708689,741
45	7090845,310	708700,711
46	7090845,450	708702,818

RUA VALDEMAR LINHARES		
Ponto	N (m)	E (m)
23	7090674,817	708354,581
24	7090677,461	708354,442

RUA VALDIR SCHMOCKEL		
Ponto	N (m)	E (m)
1	709032,003	70934,173
2	709032,130	70934,167
3	709032,846	70945,095
4	709032,954	70945,088
5	709032,781	70946,633
6	709032,956	70946,608
7	709033,081	70954,216
8	709033,247	70954,229
9	709034,500	70954,192
10	709034,667	70954,182
11	709034,290	70946,561
12	709034,508	70946,555
13	709034,615	70946,479
14	709034,597	70946,343
15	709034,556	70945,398
16	709034,554	70945,221
69	709034,286	70945,063
70	709034,104	70945,077
71	709032,979	70934,129
72	709033,085	70934,124
73	709033,512	70933,934
74	709033,508	70933,802

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RUA VER. HERMINIO KUNTZE		
Ponto	N (m)	E (m)
43	7090830,621	708333,206
44	7090830,689	708335,249
45	7090831,263	708349,208
46	7090831,349	708351,366
47	7090692,738	708340,334
48	7090692,646	708338,025
49	7090693,674	708353,909
50	7090693,829	708356,152

ANEXO III: NOTAS DE SERVIÇO DE INTERFERÊNCIAS

NOTAS DE SERVIÇO REMANEJAMENTOS

REMANEJAMENTO REDE DE AGUA DN 50MM

	Estaca Inicial	Estaca Final	Lado	Extensão	Extensão Total
Adolfo Hardt	0 + 0	7 + 2	Direito	142,00	142,00
Alberto Bez	0 + 1	4 + 11	Direito	90,00	90,00
Anery R. Roque	0 + 0	5 + 12	Esquerdo	112,00	112,00
Antonio Bischof	20 + 3	26 + 5,185	Direito	122,00	122,00
Braulio de Sá Barbosa	0 + 8	8 + 0	Esquerdo	152,00	453,00
	9 + 2	11 + 11	Esquerdo	49,00	
	12 + 18	25 + 10,25	Esquerdo	252,00	
Carlos Guilherme Jerke - T2	20 + 7	35 + 15	Esquerdo	308,00	308,00
Cilézio R. Silveira	0 + 1	4 + 9,056	Direito	88,00	112,00
	0 + 1	0 + 1	Transversal	24,00	
Dante Nazato	65 + 4	71 + 9	Direito	125,00	528,00
	65 + 4	67 + 14	Esquerdo	50,00	
	68 + 18	71 + 9	Esquerdo	51,00	
	72 + 15	80 + 11	Direito	156,00	
	72 + 15	75 + 6	Esquerdo	51,00	
	76 + 10	80 + 11	Esquerdo	81,00	
80 + 12	80 + 12	Transversal	14,00		
Delirio	0 + 7	4 + 0	Direito	73,00	73,00
Doutor Mauro Moura	25 + 8	42 + 1	Centro	333,00	347,00
	26 + 9	26 + 9	Transversal	4,00	
	33 + 6	33 + 6	Transversal	5,00	
	33 + 18	33 + 18	Transversal	5,00	
Ernerto Hanch	0 + 0	18 + 6,369	Direito	366,00	366,00
Francisco Moser	42 + 10	52 + 5,257	Direito	195,00	195,00
Harold C. Miers	11 + 16	18 + 14	Direito	138,00	352,00
	18 + 14	22 + 19	Direito	85,00	
	39 + 8	45 + 17	Direito	129,00	
Herminio Dagnoni	16 + 6	22 + 12,51	Esquerdo	127,00	127,00
Hildo Novaes	0 + 2	36 + 3	Direito	721,00	721,00
Jacobus Felthaus	0 + 3	2 + 18	Centro	55,00	82,00
	2 + 13	2 + 13	Transversal	6,00	
	2 + 18	2 + 18	Transversal	6,00	
	11 + 13	11 + 13	Transversal	15,00	
João Sancho Moreira	0 + 8	3 + 15	Direito	67,00	443,00
	5 + 1	11 + 11	Direito	130,00	
	12 + 18	25 + 4	Direito	246,00	
Juventino José da Silva	0 + 0	1 + 2	Esquerdo	22,00	62,00
	1 + 18	3 + 18	Direito	40,00	
Leopoldo Beninca	0 + 1	17 + 14	Esquerdo	353,00	703,00
	0 + 4	17 + 14	Direito	350,00	
Manoel Mauricio Filho	0 + 0	17 + 16	Direito	356,00	356,00
Marcos João Serafim	49 + 12	50 + 13	Direito	21,00	73,00
	59 + 3	61 + 15	Direito	52,00	
Marques de Maricá	0 + 1	6 + 15,76	Esquerdo	135,00	135,00
Mirko Mayarle	0 + 0	4 + 15	Direito	95,00	141,00
	19 + 14	22 + 0	Direito	46,00	
Prof. Theodoro Boing	0 + 0	2 + 0	Esquerdo	40,00	363,00
	12 + 0	18 + 14	Esquerdo	134,00	
	19 + 19	29 + 8	Esquerdo	189,00	
Radialista Daniel da Silva	0 + 8	3 + 15	Esquerdo	67,00	109,00
	4 + 17	6 + 19	Esquerdo	42,00	
Renato Scheunemann	0 + 8	4 + 1	Esquerdo	73,00	73,00

NOTAS DE SERVIÇO REMANEJAMENTOS

REMANEJAMENTO REDE DE AGUA DN 50MM									
Rudolf Baumer	61	+	12	61	+	12	Transversal	24,00	553,00
	61	+	12	77	+	9	Direito	317,00	
	61	+	12	68	+	12	Esquerdo	140,00	
	64	+	16	64	+	16	Direito	8,00	
	65	+	6	65	+	6	Direito	8,00	
	68	+	12	68	+	12	Direito	3,00	
	69	+	4	69	+	4	Direito	3,00	
	72	+	9	72	+	9	Direito	2,00	
	64	+	16	64	+	16	Esquerdo	7,00	
	65	+	6	65	+	6	Esquerdo	7,00	
	68	+	12	68	+	12	Esquerdo	3,00	
	77	+	9	77	+	9	Transversal	7,00	
	77	+	9	78	+	13,13	Esquerdo	24,00	
São Bento	0	+	0	9	+	9	Esquerdo	189,00	189,00
São Gabriel Arcanjo	13	+	20	19	+	1	Direito	101,00	269,00
	39	+	8	47	+	16	Esquerdo	168,00	
São Venancio Fortunato	0	+	16	5	+	19	Esquerdo	103,00	103,00
Soeli	4	+	12	6	+	12,28	Direito	40,00	40,00
Valdemar Linhares	3	+	0	4	+	15	Esquerdo	35,00	35,00
Valdir Schmockel	0	+	0	2	+	7	Esquerdo	47,00	104,00
	3	+	1	5	+	18	Direito	57,00	

REMANEJAMENTO REDE DE AGUA DN 50MM

	Estaca Inicial	Estaca Final	Lado	Extensão	Extensão Total
São Gabriel Arcanjo	20 + 5	28 + 12	Direito	167,00	167,00

REMANEJAMENTO REDE DE AGUA mpvc defofo DN 200MM

	Estaca Inicial	Estaca Final	Lado	Extensão	Extensão Total
Valdemar Linhares	3 + 0	4 + 16	Esquerdo	36,00	36,00
Ver. Hermínio Kuntze	0 + 6	6 + 20	Esquerdo	134,00	134,00

REMANEJAMENTO REDE DE ESGOTO DN 150MM

	Estaca Inicial	Estaca Final	Lado	Extensão	Extensão Total
Bento Torquarto da Rocha	27 + 6	29 + 15	Direito	49,00	109,00
	58 + 6	61 + 6	Direito	60,00	
Francisco Moser	49 + 9	52 + 5,257	Direito	56,00	56,00
Jacobus Felthaus	2 + 1	12 + 1	Centro	200,00	200,00
Olivio Menestrina	5 + 3	5 + 14	Esquerdo	11,00	11,00
Prof. Theodoro Boing	0 + 2	3 + 0	Centro	58,00	58,00
São Gabriel Arcanjo	0 + 10	3 + 0	Direito	50,00	50,00
Renato Scheunemann	1 + 0	5 + 5	Centro	85,00	92,00
	4 + 14	4 + 14	Esquerdo	7,00	
São Bento	0 + 0	9 + 9	Esquerdo	189,00	189,00

NOTAS DE SERVIÇO POSTES A RELOCAR

RUA	ESTACA	LADO
COMANDANTE KARL BUSCH	11+7	LE
COMANDANTE KARL BUSCH	12+16	LE
JACOBUS FELTHAUS	21+19	LE
JACOBUS FELTHAUS	23+17	LE
JACOBUS FELTHAUS	25+11	LE
JACOBUS FELTHAUS	27+7	LE
JACOBUS FELTHAUS	29+0	LE
ORESTES GIRARDI	0+0	LD
SÃO VIGILIO	9+9	LE
SEM DENOMINAÇÃO 04	3+3	LD

NOTAS DE SERVIÇO BOCA DE LOBO/LEÃO A REMOVER

RUA	ESTACA	LADO
ADOLFO HARDT	0+3	LE
AFONSO LENZI	0+0	LD
AFONSO LENZI	1+1	LD
AFONSO LENZI	10+4	LD
AFONSO LENZI	13+8	LD
AFONSO LENZI	16+10	LD
ALBERTO BEZ	0+1	LD
ALBERTO BEZ	0+8	LD
ALBERTO BEZ	0+8	LE
ALBERTO BEZ	2+17	LD
ALBERTO MIERS	10+3	LE
ALBERTO MIERS	10+16	LE
ALBERTO MIERS	12+5	LE
ALBERTO MIERS	13+16	LD
ALBERTO MIERS	19+7	LE
ALBERTO MIERS	19+12	LD
ALBERTO MIERS	19+16	LE
ALBERTO MIERS	23+8	LD
ALBERTO MIERS	24+11	LD
ALBERTO MIERS	25+14	LD
ALBERTO MIERS	26+18	LD
ALBERTO MIERS	26+18	LE
ALBERTO MIERS	29+2	LD
ALBERTO MIERS	29+3	LE
ALBERTO MIERS	29+11	LE
ALBERTO MIERS	30+7	LE
ALBERTO MIERS	31+14	LE
ALBERTO MIERS	33+7	LD
ALBERTO MIERS	38+1	LE
ALBERTO MIERS	39+12	LE
ALBERTO MIERS	41+2	LE
ALEX KRICHELDORF (TRECHO 01)	2+0	LD
ALEX KRICHELDORF (TRECHO 01)	2+0	LD
ALEX KRICHELDORF (TRECHO 01)	2+0	LE
ALEX KRICHELDORF (TRECHO 01)	4+11	LD
ALEX KRICHELDORF (TRECHO 01)	5+14	LD
ALEX KRICHELDORF (TRECHO 02)	8+7	LE
ALEX KRICHELDORF (TRECHO 02)	11+8	LD
ALEX KRICHELDORF (TRECHO 02)	11+18	LE
ALEX KRICHELDORF (TRECHO 02)	14+7	LE
ALEX KRICHELDORF (TRECHO 02)	15+11	LD
ALEX KRICHELDORF (TRECHO 02)	16+0	LE
ALEX KRICHELDORF (TRECHO 02)	16+2	LD
ALEX KRICHELDORF (TRECHO 02)	19+16	LE
ANERY R. ROQUE	0+7	LD
ANERY R. ROQUE	2+17	LE
ANTONIO BISCHOF	3+13	LE
ANTONIO BISCHOF	3+19	LD
ANTONIO BISCHOF	5+2	LD
ANTONIO BISCHOF	5+4	LE
ANTONIO BISCHOF	6+2	LE
ANTONIO BISCHOF	6+4	LD
ANTONIO BISCHOF	7+5	LE
ANTONIO BISCHOF	7+10	LD
ANTONIO BISCHOF	10+4	LD
ANTONIO BISCHOF	11+0	LE
ANTONIO BISCHOF	12+2	LD
ANTONIO BISCHOF	12+6	LE
ANTONIO BISCHOF	14+6	LD
ANTONIO BISCHOF	15+13	LD
ANTONIO BISCHOF	16+3	LE
ANTONIO BISCHOF	16+17	LD
ANTONIO BISCHOF	16+19	LD
ANTONIO BISCHOF	17+9	LE
ANTONIO BISCHOF	18+19	LE

RUA	ESTACA	LADO
ANTONIO BISCHOF	18+20	LD
ANTONIO BISCHOF	20+5	LD
ANTONIO BISCHOF	20+7	LE
ANTONIO BISCHOF	21+9	LE
ANTONIO BISCHOF	21+15	LD
ANTONIO BISCHOF	22+12	LE
ANTONIO BISCHOF	23+13	LD
ANTONIO BISCHOF	24+5	LD
ARLINDO CORREA	0+5	LD
ARLINDO CORREA	1+14	LE
ARLINDO CORREA	4+13	LD
ARLINDO CORREA	7+2	LD
ARLINDO CORREA	11+7	LD
ARLINDO CORREA	11+7	LE
ARLINDO CORREA	16+19	LD
ARLINDO CORREA	19+19	LE
ARLINDO CORREA	24+2	LE
AUGUSTO ECCEL	0+1	LD
AUGUSTO ECCEL	0+7	LD
AUGUSTO ECCEL	0+12	LE
AUGUSTO ECCEL	1+18	LD
AUGUSTO ECCEL	1+18	LE
AUGUSTO ECCEL	3+0	LE
AUGUSTO ECCEL	3+4	LD
AUGUSTO ECCEL	4+14	LD
AUGUSTO ECCEL	4+14	LE
AUGUSTO ECCEL	6+3	LD
AUGUSTO ECCEL	6+4	LE
AUGUSTO ECCEL	7+14	LD
AUGUSTO ECCEL	7+15	LE
AUGUSTO ECCEL	8+19	LE
AUGUSTO ECCEL	12+8	LD
BENTO TORQUATO DA ROCHA	0+6	LE
BENTO TORQUATO DA ROCHA	0+8	LD
BENTO TORQUATO DA ROCHA	1+19	LE
BENTO TORQUATO DA ROCHA	3+0	LD
BENTO TORQUATO DA ROCHA	3+7	LE
BENTO TORQUATO DA ROCHA	4+7	LD
BENTO TORQUATO DA ROCHA	5+6	LE
BENTO TORQUATO DA ROCHA	6+15	LE
BENTO TORQUATO DA ROCHA	7+1	LD
BENTO TORQUATO DA ROCHA	8+11	LD
BENTO TORQUATO DA ROCHA	9+2	LE
BENTO TORQUATO DA ROCHA	9+18	LE
BENTO TORQUATO DA ROCHA	10+13	LE
BENTO TORQUATO DA ROCHA	10+13	LD
BENTO TORQUATO DA ROCHA	11+12	LD
BENTO TORQUATO DA ROCHA	15+4	LD
BENTO TORQUATO DA ROCHA	15+4	LE
BENTO TORQUATO DA ROCHA	17+6	LE
BENTO TORQUATO DA ROCHA	18+11	LE
BENTO TORQUATO DA ROCHA	19+5	LD
BENTO TORQUATO DA ROCHA	20+10	LD
BENTO TORQUATO DA ROCHA	21+0	LE
BENTO TORQUATO DA ROCHA	22+5	LE
BENTO TORQUATO DA ROCHA	23+4	LD
BENTO TORQUATO DA ROCHA	24+18	LD
BENTO TORQUATO DA ROCHA	25+12	LE
BENTO TORQUATO DA ROCHA	26+1	LD
BENTO TORQUATO DA ROCHA	27+8	LD
BENTO TORQUATO DA ROCHA	28+12	LD
BENTO TORQUATO DA ROCHA	30+18	LD
BENTO TORQUATO DA ROCHA	31+5	LE
BENTO TORQUATO DA ROCHA	32+8	LE
BENTO TORQUATO DA ROCHA	32+14	LD

NOTAS DE SERVIÇO BOCA DE LOBO/LEÃO A REMOVER

RUA	ESTACA	LADO
BENTO TORQUATO DA ROCHA	32+15	LE
BENTO TORQUATO DA ROCHA	37+0	LE
BENTO TORQUATO DA ROCHA	37+9	LD
BENTO TORQUATO DA ROCHA	40+1	LD
BENTO TORQUATO DA ROCHA	40+14	LE
BENTO TORQUATO DA ROCHA	44+5	LE
BENTO TORQUATO DA ROCHA	44+13	LD
BENTO TORQUATO DA ROCHA	47+19	LE
BENTO TORQUATO DA ROCHA	49+5	LD
BENTO TORQUATO DA ROCHA	50+7	LE
BENTO TORQUATO DA ROCHA	50+14	LD
BENTO TORQUATO DA ROCHA	54+1	LE
BENTO TORQUATO DA ROCHA	55+3	LD
BENTO TORQUATO DA ROCHA	57+9	LD
BENTO TORQUATO DA ROCHA	58+17	LD
BENTO TORQUATO DA ROCHA	60+14	LD
BENTO TORQUATO DA ROCHA	60+16	LE
BENTO TORQUATO DA ROCHA	61+13	LE
BENTO TORQUATO DA ROCHA	63+5	LE
BENTO TORQUATO DA ROCHA	63+7	LD
BENTO TORQUATO DA ROCHA	63+13	LE
BENTO TORQUATO DA ROCHA	65+10	LD
BENTO TORQUATO DA ROCHA	66+8	LD
BENTO TORQUATO DA ROCHA	67+4	LE
BENTO TORQUATO DA ROCHA	67+5	LD
BENTO TORQUATO DA ROCHA	69+0	LD
BENTO TORQUATO DA ROCHA	70+17	LE
BENTO TORQUATO DA ROCHA	72+13	LD
BENTO TORQUATO DA ROCHA	74+6	LD
BENTO TORQUATO DA ROCHA	74+6	LE
BENTO TORQUATO DA ROCHA	75+12	LE
BENTO TORQUATO DA ROCHA	76+11	LE
BENTO TORQUATO DA ROCHA	76+12	LD
BENTO TORQUATO DA ROCHA	77+8	LD
BRAULIO DE SÁ BARBOSA	1+3	LD
BRAULIO DE SÁ BARBOSA	1+5	LE
BRAULIO DE SÁ BARBOSA	2+8	LD
BRAULIO DE SÁ BARBOSA	3+5	LD
BRAULIO DE SÁ BARBOSA	4+0	LE
BRAULIO DE SÁ BARBOSA	4+1	LD
BRAULIO DE SÁ BARBOSA	4+14	LD
BRAULIO DE SÁ BARBOSA	4+16	LE
BRAULIO DE SÁ BARBOSA	6+11	LD
BRAULIO DE SÁ BARBOSA	6+16	LE
BRAULIO DE SÁ BARBOSA	7+19	LE
BRAULIO DE SÁ BARBOSA	8+10	LD
BRAULIO DE SÁ BARBOSA	9+16	LD
BRAULIO DE SÁ BARBOSA	9+18	LE
BRAULIO DE SÁ BARBOSA	11+6	LD
BRAULIO DE SÁ BARBOSA	15+18	LD
BRAULIO DE SÁ BARBOSA	17+4	LD
BRAULIO DE SÁ BARBOSA	17+7	LE
BRAULIO DE SÁ BARBOSA	18+12	LD
BRAULIO DE SÁ BARBOSA	20+8	LE
BRAULIO DE SÁ BARBOSA	22+18	LE
CARLOS GUILHERME JERKE (TRECHO 01)	2+16	LD
CARLOS GUILHERME JERKE (TRECHO 01)	3+0	LE
CARLOS GUILHERME JERKE (TRECHO 01)	3+5	LD
CARLOS GUILHERME JERKE (TRECHO 01)	4+4	LD
CARLOS GUILHERME JERKE (TRECHO 01)	4+5	LE
CARLOS GUILHERME JERKE (TRECHO 01)	5+8	LD
CARLOS GUILHERME JERKE (TRECHO 01)	5+9	LE
CARLOS GUILHERME JERKE (TRECHO 01)	6+9	LD
CARLOS GUILHERME JERKE (TRECHO 01)	7+15	LD
CARLOS GUILHERME JERKE (TRECHO 01)	7+16	LE

RUA	ESTACA	LADO
CARLOS GUILHERME JERKE (TRECHO 01)	8+19	LD
CARLOS GUILHERME JERKE (TRECHO 01)	8+19	LE
CARLOS GUILHERME JERKE (TRECHO 01)	9+15	LD
CARLOS GUILHERME JERKE (TRECHO 01)	11+5	LE
CARLOS GUILHERME JERKE (TRECHO 01)	11+6	LD
CARLOS GUILHERME JERKE (TRECHO 01)	12+13	LD
CARLOS GUILHERME JERKE (TRECHO 01)	12+17	LD
CARLOS GUILHERME JERKE (TRECHO 01)	13+3	LE
CARLOS GUILHERME JERKE (TRECHO 01)	14+12	LD
CARLOS GUILHERME JERKE (TRECHO 01)	15+4	LD
CARLOS GUILHERME JERKE (TRECHO 01)	15+5	LE
CARLOS GUILHERME JERKE (TRECHO 01)	15+13	LD
CARLOS GUILHERME JERKE (TRECHO 01)	16+4	LE
CARLOS GUILHERME JERKE (TRECHO 01)	17+3	LE
CARLOS GUILHERME JERKE (TRECHO 01)	18+19	LE
CARLOS GUILHERME JERKE (TRECHO 01)	18+19	LD
CARLOS GUILHERME JERKE (TRECHO 02)	25+7	LE
CARLOS GUILHERME JERKE (TRECHO 02)	27+4	LE
CARLOS GUILHERME JERKE (TRECHO 02)	28+9	LE
CARLOS GUILHERME JERKE (TRECHO 02)	29+13	LD
CARLOS GUILHERME JERKE (TRECHO 02)	30+16	LE
CARLOS GUILHERME JERKE (TRECHO 02)	32+2	LD
CARLOS GUILHERME JERKE (TRECHO 02)	33+3	LE
CARLOS GUILHERME JERKE (TRECHO 02)	34+7	LE
CARLOS VITOR HARDT	0+5	LE
CARLOS VITOR HARDT	19+14	LD
CARLOS VITOR HARDT	20+3	LD
CARLOS VITOR HARDT	21+19	LD
CARLOS VITOR HARDT	24+7	LD
CILEZIO R. SILVEIRA	0+1	LE
CILEZIO R. SILVEIRA	2+18	LE
CILEZIO R. SILVEIRA	3+0	LD
CILEZIO R. SILVEIRA	4+7	LD
COMANDANTE KARL BUSCH	5+13	LD
COMANDANTE KARL BUSCH	6+3	LE
COMANDANTE KARL BUSCH	7+17	LE
COMANDANTE KARL BUSCH	9+13	LE
COMANDANTE KARL BUSCH	10+5	LE
COMANDANTE KARL BUSCH	10+13	LE
COMANDANTE KARL BUSCH	10+15	LD
COMANDANTE KARL BUSCH	14+19	LE
COMANDANTE KARL BUSCH	28+16	LE
DANTE NAZATO	33+13	LE
DANTE NAZATO	35+12	LD
DANTE NAZATO	39+18	LE
DANTE NAZATO	40+17	LD
DANTE NAZATO	46+10	LE
DANTE NAZATO	47+16	LE
DANTE NAZATO	47+18	LD
DANTE NAZATO	48+14	LD
DANTE NAZATO	49+3	LE
DANTE NAZATO	50+9	LD
DANTE NAZATO	50+9	LE
DANTE NAZATO	51+11	LE
DANTE NAZATO	51+17	LD
DANTE NAZATO	53+11	LD
DANTE NAZATO	54+9	LE
DANTE NAZATO	55+4	LE
DANTE NAZATO	55+17	LD
DANTE NAZATO	57+12	LD
DANTE NAZATO	57+12	LE
DANTE NAZATO	58+16	LD
DANTE NAZATO	58+17	LE
DANTE NAZATO	60+0	LD
DANTE NAZATO	60+8	LD

NOTAS DE SERVIÇO BOCA DE LOBO/LEÃO A REMOVER

RUA	ESTACA	LADO
DANTE NAZATO	61+14	LD
DANTE NAZATO	62+11	LE
DANTE NAZATO	62+15	LD
DANTE NAZATO	66+12	LD
DANTE NAZATO	68+7	LD
DELIRIO BERTELL	0+14	LE
DELIRIO BERTELL	0+14	LD
DELIRIO BERTELL	1+17	LD
DELIRIO BERTELL	1+18	LE
DELIRIO BERTELL	3+12	LD
DR MAURO MOURA	2+11	LE
ERNESTO HANCH	0+0	LD
ERNESTO HANCH	3+4	LD
ERNESTO HANCH	9+9	LD
ERNESTO HANCH	10+2	LD
ERNESTO HANCH	11+3	LD
ERNESTO HANCH	11+12	LE
EWALDO EICHHOLZ	0+0	LD
EWALDO EICHHOLZ	1+0	LD
EWALDO EICHHOLZ	1+13	LD
EWALDO EICHHOLZ	2+18	LD
EWALDO EICHHOLZ	4+4	LD
EWALDO EICHHOLZ	5+5	LE
FRANCISCO MOSER	2+3	LE
FRANCISCO MOSER	3+15	LD
FRANCISCO MOSER	3+17	LE
FRANCISCO MOSER	5+13	LE
FRANCISCO MOSER	6+12	LD
FRANCISCO MOSER	8+1	LD
FRANCISCO MOSER	10+3	LD
FRANCISCO MOSER	10+13	LE
FRANCISCO MOSER	12+9	LE
FRANCISCO MOSER	13+11	LE
FRANCISCO MOSER	16+7	LD
FRANCISCO MOSER	16+11	LE
FRANCISCO MOSER	17+17	LE
FRANCISCO MOSER	17+17	LD
FRANCISCO MOSER	19+17	LE
FRANCISCO MOSER	19+18	LD
FRANCISCO MOSER	21+2	LD
FRANCISCO MOSER	21+3	LD
FRANCISCO MOSER	21+3	LE
FRANCISCO MOSER	22+12	LE
FRANCISCO MOSER	23+1	LD
FRANCISCO MOSER	25+7	LE
FRANCISCO MOSER	27+4	LD
FRANCISCO MOSER	29+9	LD
FRANCISCO MOSER	29+12	LE
FRANCISCO MOSER	47+19	LD
FRANCISCO MOSER	49+5	LD
FRANCISCO MOSER	52+0	LD
HAROLD C. MIERS	0+10	LD
HAROLD C. MIERS	4+7	LE
HAROLD C. MIERS	4+8	LD
HAROLD C. MIERS	6+8	LE
HAROLD C. MIERS	7+10	LD
HAROLD C. MIERS	8+6	LD
HAROLD C. MIERS	8+9	LE
HAROLD C. MIERS	9+20	LE
HAROLD C. MIERS	14+0	LD
HAROLD C. MIERS	14+6	LE
HAROLD C. MIERS	15+3	LD
HAROLD C. MIERS	15+16	LE
HAROLD C. MIERS	17+13	LD
HAROLD C. MIERS	17+13	LE

RUA	ESTACA	LADO
HAROLD C. MIERS	21+2	LD
HAROLD C. MIERS	21+3	LE
HAROLD C. MIERS	22+13	LD
HAROLD C. MIERS	23+1	LE
HAROLD C. MIERS	24+3	LD
HAROLD C. MIERS	24+4	LE
HAROLD C. MIERS	26+6	LE
HAROLD C. MIERS	28+6	LE
HAROLD C. MIERS	30+11	LE
HAROLD C. MIERS	32+13	LE
HAROLD C. MIERS	39+16	LD
HAROLD C. MIERS	39+16	LE
HAROLD C. MIERS	40+13	LD
HAROLD C. MIERS	41+13	LD
HAROLD C. MIERS	42+15	LE
HAROLD C. MIERS	44+5	LE
HAROLD C. MIERS	44+13	LD
HEINZI ZIETZ	1+11	LD
HEINZI ZIETZ	2+3	LE
HEINZI ZIETZ	4+1	LD
HEINZI ZIETZ	4+3	LE
HEINZI ZIETZ	7+17	LD
HEINZI ZIETZ	9+12	LD
HEINZI ZIETZ	9+14	LE
HEINZI ZIETZ	10+19	LD
HEINZI ZIETZ	12+1	LE
HEINZI ZIETZ	12+13	LD
HEINZI ZIETZ	12+15	LE
HEINZI ZIETZ	14+7	LD
HEINZI ZIETZ	16+17	LD
HEINZI ZIETZ	17+6	LE
HEINZI ZIETZ	17+15	LE
HEINZI ZIETZ	19+5	LD
HEINZI ZIETZ	24+9	LD
HEINZI ZIETZ	32+3	LD
HEINZI ZIETZ	39+8	LE
HERCÍLIO J. DA SILVA	0+10	LD
HERCÍLIO J. DA SILVA	0+11	LE
HERMINIO DAGNONI	1+5	LD
HERMINIO DAGNONI	5+1	LE
HERMINIO DAGNONI	9+12	LD
HERMINIO DAGNONI	9+12	LE
HERMINIO DAGNONI	10+3	LD
HERMINIO DAGNONI	10+3	LE
HERMINIO DAGNONI	11+2	LD
HERMINIO DAGNONI	12+12	LD
HERMINIO DAGNONI	14+2	LD
HERMINIO DAGNONI	15+0	LE
HERMINIO DAGNONI	15+6	LD
HERMINIO DAGNONI	18+16	LE
HERMINIO DAGNONI	19+6	LD
HERMINIO DAGNONI	21+8	LE
HILDO NOVAES	7+7	LD
HILDO NOVAES	7+7	LE
HILDO NOVAES	8+13	LD
HILDO NOVAES	10+5	LD
HILDO NOVAES	10+14	LD
HILDO NOVAES	11+1	LD
HILDO NOVAES	11+2	LE
HILDO NOVAES	11+15	LD
HILDO NOVAES	13+3	LE
HILDO NOVAES	13+3	LD
HILDO NOVAES	14+6	LE
HILDO NOVAES	16+10	LD
HILDO NOVAES	17+8	LD

NOTAS DE SERVIÇO BOCA DE LOBO/LEÃO A REMOVER

RUA	ESTACA	LADO
HILDO NOVAES	17+9	LD
HILDO NOVAES	18+7	LE
HILDO NOVAES	18+8	LD
HILDO NOVAES	20+3	LE
HILDO NOVAES	20+4	LD
HILDO NOVAES	21+1	LE
HILDO NOVAES	21+11	LE
HILDO NOVAES	22+18	LE
HILDO NOVAES	24+1	LE
HILDO NOVAES	24+4	LD
HILDO NOVAES	25+1	LE
HILDO NOVAES	25+13	LE
HILDO NOVAES	25+15	LD
HILDO NOVAES	26+15	LE
HILDO NOVAES	26+15	LD
HILDO NOVAES	27+16	LE
HILDO NOVAES	27+16	LD
HILDO NOVAES	28+13	LE
HILDO NOVAES	36+4	LE
JACOBUS FELTHAUS	5+3	LD
JOÃO CARLOS G. O. (TRECHO 01)	1+5	LE
JOÃO CARLOS G. O. (TRECHO 01)	7+16	LE
JOÃO CARLOS G. O. (TRECHO 01)	7+17	LE
JOÃO CARLOS G. O. (TRECHO 01)	8+1	LD
JOÃO CARLOS G. O. (TRECHO 02)	15+3	LD
JOÃO CARLOS G. O. (TRECHO 02)	15+5	LE
JOÃO CARLOS G. O. (TRECHO 02)	18+12	LE
JOÃO SANCHO MOREIRA	5+6	LE
JOÃO SANCHO MOREIRA	6+13	LD
JOÃO SANCHO MOREIRA	6+14	LE
JOÃO SANCHO MOREIRA	8+0	LD
JOÃO SANCHO MOREIRA	8+5	LD
JOÃO SANCHO MOREIRA	8+11	LE
JOÃO SANCHO MOREIRA	8+20	LD
JOÃO SANCHO MOREIRA	9+6	LE
JOÃO SANCHO MOREIRA	10+1	LE
JOÃO SANCHO MOREIRA	10+7	LD
JOÃO SANCHO MOREIRA	14+9	LE
JOÃO SANCHO MOREIRA	14+19	LD
JOÃO SANCHO MOREIRA	16+5	LE
JOÃO SANCHO MOREIRA	17+2	LD
JOÃO SANCHO MOREIRA	18+1	LD
JOÃO SANCHO MOREIRA	19+4	LD
JOÃO SANCHO MOREIRA	19+4	LE
JOÃO SANCHO MOREIRA	20+4	LE
JOÃO SANCHO MOREIRA	20+15	LD
JOÃO SANCHO MOREIRA	21+9	LD
JOÃO SANCHO MOREIRA	21+13	LE
JOÃO SANCHO MOREIRA	22+17	LD
JOÃO SANCHO MOREIRA	23+8	LE
JOÃO SANCHO MOREIRA	24+0	LD
JOÃO SANCHO MOREIRA	24+0	LE
JOÃO SANCHO MOREIRA	24+19	LD
LEOPOLDO BENINCA	0+0	LD
LEOPOLDO BENINCA	0+1	LE
LEOPOLDO BENINCA	2+0	LD
LEOPOLDO BENINCA	2+1	LE
LEOPOLDO BENINCA	3+11	LD
LEOPOLDO BENINCA	3+12	LE
LEOPOLDO BENINCA	5+6	LD
LEOPOLDO BENINCA	5+6	LE
LEOPOLDO BENINCA	7+6	LD
LEOPOLDO BENINCA	8+14	LD
LEOPOLDO BENINCA	8+14	LE
LEOPOLDO BENINCA	10+14	LD
LEOPOLDO BENINCA	12+8	LD

RUA	ESTACA	LADO
LEOPOLDO BENINCA	14+0	LE
LUCIANO DE O. CERCAL	0+1	LE
LUCIANO DE O. CERCAL	0+6	LE
MANOEL MAURICIO FILHO	0+3	LD
MANOEL MAURICIO FILHO	5+8	LE
MANOEL MAURICIO FILHO	6+5	LE
MANOEL MAURICIO FILHO	8+11	LE
MANOEL MAURICIO FILHO	10+3	LD
MANOEL MAURICIO FILHO	15+17	LD
MARCIO LUCKOW	0+8	LD
MARCIO LUCKOW	1+0	LE
MARCIO LUCKOW	1+16	LE
MARCIO LUCKOW	2+4	LD
MARCIO LUCKOW	3+2	LD
MARCIO LUCKOW	3+2	LE
MARCIO LUCKOW	4+18	LD
MARCIO LUCKOW	5+1	LE
MARCIO LUCKOW	6+13	LE
MARCIO LUCKOW	6+16	LD
MARCOS JOÃO SERAFIM	0+0	LE
MARCOS JOÃO SERAFIM	8+10	LE
MARCOS JOÃO SERAFIM	11+2	LD
MARCOS JOÃO SERAFIM	11+8	LE
MARCOS JOÃO SERAFIM	11+12	LD
MARCOS JOÃO SERAFIM	12+11	LD
MARCOS JOÃO SERAFIM	14+7	LD
MARCOS JOÃO SERAFIM	21+16	LD
MARCOS JOÃO SERAFIM	22+8	LE
MARCOS JOÃO SERAFIM	29+13	LD
MARCOS JOÃO SERAFIM	39+7	LE
MARCOS JOÃO SERAFIM	39+11	LD
MARCOS JOÃO SERAFIM	41+8	LD
MARCOS JOÃO SERAFIM	41+8	LE
MARCOS JOÃO SERAFIM	42+10	LD
MARCOS JOÃO SERAFIM	42+11	LE
MARCOS JOÃO SERAFIM	44+1	LD
MARCOS JOÃO SERAFIM	45+13	LE
MARCOS JOÃO SERAFIM	46+1	LE
MARCOS JOÃO SERAFIM	46+3	LD
MARCOS JOÃO SERAFIM	47+15	LE
MARCOS JOÃO SERAFIM	48+6	LD
MARCOS JOÃO SERAFIM	48+14	LE
MARCOS JOÃO SERAFIM	51+13	LD
MARCOS JOÃO SERAFIM	51+16	LE
MARCOS JOÃO SERAFIM	53+5	LD
MARCOS JOÃO SERAFIM	53+7	LE
MARCOS JOÃO SERAFIM	55+3	LD
MARCOS JOÃO SERAFIM	55+5	LE
MARCOS JOÃO SERAFIM	56+13	LE
MARCOS JOÃO SERAFIM	57+14	LE
MARCOS JOÃO SERAFIM	57+14	LD
MARCOS JOÃO SERAFIM	59+6	LD
MARCOS JOÃO SERAFIM	59+6	LE
MARCOS JOÃO SERAFIM	61+12	LE
MARCOS JOÃO SERAFIM	61+13	LD
MARQUES DE MARICA	0+0	LD
MARQUES DE MARICA	1+13	LD
MARQUES DE MARICA	2+9	LE
MARQUES DE MARICA	2+11	LD
MARQUES DE MARICA	4+0	LD
MARQUES DE MARICA	4+1	LE
MARQUES DE MARICA	4+14	LD
MARQUES DE MARICA	5+9	LD
MARQUES DE MARICA	6+3	LE
MIRKO MAYERLE	1+3	LD
MIRKO MAYERLE	1+13	LE

NOTAS DE SERVIÇO BOCA DE LOBO/LEÃO A REMOVER

RUA	ESTACA	LADO
MIRKO MAYERLE	2+0	LD
MIRKO MAYERLE	2+0	LE
MIRKO MAYERLE	2+15	LD
MIRKO MAYERLE	4+6	LE
MIRKO MAYERLE	5+6	LE
MIRKO MAYERLE	5+7	LD
MIRKO MAYERLE	6+9	LE
MIRKO MAYERLE	6+17	LD
MIRKO MAYERLE	7+6	LE
MIRKO MAYERLE	8+1	LD
MIRKO MAYERLE	10+0	LD
MIRKO MAYERLE	11+10	LD
MIRKO MAYERLE	11+10	LE
MIRKO MAYERLE	13+18	LD
MIRKO MAYERLE	15+8	LE
MIRKO MAYERLE	17+13	LD
PAULINO DE JESUS	0+14	LD
PAULINO DE JESUS	1+15	LD
PAULINO DE JESUS	3+1	LE
PAULINO DE JESUS	3+3	LD
PAULINO DE JESUS	4+16	LD
PAULINO DE JESUS	4+18	LE
PAULINO DE JESUS	5+17	LD
PAULINO DE JESUS	5+18	LE
PAULINO DE JESUS	7+0	LD
PAULINO DE JESUS	7+1	LE
PAULINO DE JESUS	8+7	LE
PAULINO DE JESUS	8+11	LD
PAULINO DE JESUS	13+4	LE
PAULINO DE JESUS	16+9	LE
PETRONILHA S. F. (TRECHO 01)	0+11	LD
PETRONILHA S. F. (TRECHO 01)	0+11	LE
PETRONILHA S. F. (TRECHO 01)	10+19	LD
PETRONILHA S. F. (TRECHO 01)	33+14	LD
PETRONILHA S. F. (TRECHO 01)	37+15	LE
PETRONILHA S. F. (TRECHO 02)	43+1	LE
PETRONILHA S. F. (TRECHO 02)	43+14	LE
PETRONILHA S. F. (TRECHO 02)	45+9	LD
PETRONILHA S. F. (TRECHO 02)	45+12	LE
RADIALISTA DANIEL DA SILVA	1+5	LE
RADIALISTA DANIEL DA SILVA	2+10	LE
RADIALISTA DANIEL DA SILVA	2+12	LD
RADIALISTA DANIEL DA SILVA	3+10	LD
RADIALISTA DANIEL DA SILVA	3+12	LE
RADIALISTA DANIEL DA SILVA	4+4	LD
RADIALISTA DANIEL DA SILVA	5+6	LD
RADIALISTA DANIEL DA SILVA	5+16	LE
RADIALISTA DANIEL DA SILVA	8+5	LD
RADIALISTA DANIEL DA SILVA	8+5	LE
RADIALISTA DANIEL DA SILVA	11+9	LE
RADIALISTA DANIEL DA SILVA	11+10	LD
RENATO SCHEUNEMANN	1+3	LE
RENATO SCHEUNEMANN	21+15	LE
RENATO SCHEUNEMANN	23+5	LE
RODRIGO BAUMER	0+13	LD
RODRIGO BAUMER	1+14	LE
RODRIGO BAUMER	2+7	LD
RODRIGO BAUMER	3+4	LE
RODRIGO BAUMER	4+12	LE
RODRIGO BAUMER	4+15	LD
RODRIGO BAUMER	6+7	LE
RODRIGO BAUMER	6+13	LD
RODRIGO BAUMER	8+1	LD
RODRIGO BAUMER	8+17	LD
RODRIGO BAUMER	9+7	LE

RUA	ESTACA	LADO
RODRIGO BAUMER	11+1	LE
RODRIGO BAUMER	11+1	LD
RODRIGO BAUMER	12+4	LD
RODRIGO BAUMER	12+13	LE
RODRIGO BAUMER	13+11	LE
RODRIGO BAUMER	13+12	LD
RODRIGO BAUMER	14+19	LD
RODRIGO BAUMER	15+4	LE
RUDOLF BAUMER	3+16	LD
RUDOLF BAUMER	3+16	LE
RUDOLF BAUMER	8+1	LD
RUDOLF BAUMER	9+4	LE
RUDOLF BAUMER	9+17	LD
RUDOLF BAUMER	10+3	LE
RUDOLF BAUMER	11+19	LD
RUDOLF BAUMER	11+19	LE
RUDOLF BAUMER	15+16	LD
RUDOLF BAUMER	18+2	LD
RUDOLF BAUMER	18+7	LE
RUDOLF BAUMER	18+7	LE
RUDOLF BAUMER	18+16	LD
RUDOLF BAUMER	19+5	LE
RUDOLF BAUMER	19+10	LD
RUDOLF BAUMER	25+7	LE
RUDOLF BAUMER	29+14	LE
RUDOLF BAUMER	37+1	LE
RUDOLF BAUMER	38+19	LD
RUDOLF BAUMER	39+4	LE
RUDOLF BAUMER	41+12	LD
RUDOLF BAUMER	41+12	LE
RUDOLF BAUMER	42+19	LE
RUDOLF BAUMER	45+7	LD
RUDOLF BAUMER	45+8	LE
RUDOLF BAUMER	46+13	LE
RUDOLF BAUMER	47+7	LD
RUDOLF BAUMER	47+16	LE
RUDOLF BAUMER	49+6	LD
RUDOLF BAUMER	49+7	LE
RUDOLF BAUMER	50+5	LE
RUDOLF BAUMER	50+6	LD
RUDOLF BAUMER	50+12	LE
RUDOLF BAUMER	51+7	LD
RUDOLF BAUMER	51+8	LE
RUDOLF BAUMER	53+1	LE
RUDOLF BAUMER	53+19	LE
RUDOLF BAUMER	54+8	LD
RUDOLF BAUMER	54+9	LE
RUDOLF BAUMER	55+16	LE
RUDOLF BAUMER	55+18	LD
RUDOLF BAUMER	57+0	LE
RUDOLF BAUMER	57+0	LD
RUDOLF BAUMER	58+2	LD
RUDOLF BAUMER	58+4	LE
RUDOLF BAUMER	59+3	LE
RUDOLF BAUMER	59+9	LD
RUDOLF BAUMER	60+9	LE
RUDOLF BAUMER	61+1	LD
RUDOLF BAUMER	63+0	LD
RUDOLF BAUMER	64+17	LD
SÃO BENTO	0+1	LE
SÃO BENTO	0+1	LD
SÃO BENTO	1+0	LD
SÃO BENTO	1+1	LE
SÃO GABRIEL ARCANJO	3+4	LE
SÃO GABRIEL ARCANJO	8+2	LE






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Relatório de auditoria final

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