

ANEXO

COORDENADA POLIGONAL - PROJETO MODERNIZAÇÃO HORTO FLORESTAL - CAETANO FURQUIM - GENERAL CARNEIRO

PARAMETRO DO ELIPSÓIDE: DANTUM SAD-69			a=6378160.0000000	
MC= 45°	LOCAL: BELO HORIZONTE		b=6356774,71919531	
Nº	Coordenadas UTM		Coordenada Geodésicas	
	Este	Norte	Latitude	Longitude
1	617987,4706	7799566,8914	-19° , 53' 47.479897"	-43° , 52' 22.310924"
2	617939,3352	7799497,8205	-19° , 53' 49.736979"	-43° , 52' 23.950206"
3	617897,1617	7799460,2977	-19° , 53' 50.966627"	-43° , 52' 25.391751"
4	617879,0828	7799401,0819	-19° , 53' 52.896615"	-43° , 52' 25.999791"
5	617865,9181	7799375,1281	-19° , 53' 53.743654"	-43° , 52' 26.446506"
6	617804,2549	7799372,1773	-19° , 53' 53.853045"	-43° , 52' 28.566194"
7	617790,6094	7799390,1216	-19° , 53' 53.272356"	-43° , 52' 29.039537"
8	617765,3091	7799402,9952	-19° , 53' 52.859129"	-43° , 52' 29.912478"
9	617731,1386	7799420,7025	-19° , 53' 52.290608"	-43° , 52' 31.091541"
10	617708,6268	7799425,5744	-19° , 53' 52.137037"	-43° , 52' 31.866755"
11	617692,0248	7799418,6267	-19° , 53' 52.366625"	-43° , 52' 32.436039"
12	617679,0938	7799422,7526	-19° , 53' 52.235235"	-43° , 52' 32.881635"
13	617660,0292	7799434,6219	-19° , 53' 51.853315"	-43° , 52' 33.539919"
14	617548,9766	7799438,0167	-19° , 53' 51.767004"	-43° , 52' 37.359372"
15	617477,4508	7799444,2077	-19° , 53' 51.581151"	-43° , 52' 39.820291"
16	617431,7219	7799436,9412	-19° , 53' 51.827417"	-43° , 52' 41.391068"
17	617397,4846	7799411,8965	-19° , 53' 52.649443"	-43° , 52' 42.56262"
18	617366,1717	7799376,9332	-19° , 53' 53.793447"	-43° , 52' 43.631345"
19	617303,2946	7799211,4247	-19° , 53' 59.190409"	-43° , 52' 45.755566"
20	617253,5423	7799168,7791	-19° , 54' 00.588276"	-43° , 52' 47.456622"
21	617183,6271	7799152,4073	-19° , 54' 01.135917"	-43° , 52' 49.857033"
22	617147,0880	7799153,4649	-19° , 54' 01.109421"	-43° , 52' 51.113737"
23	617106,1835	7799151,2698	-19° , 54' 01.189664"	-43° , 52' 52.51981"
24	616997,2713	7799121,7252	-19° , 54' 02.174172"	-43° , 52' 56.258205"
25	616897,4131	7799130,7251	-19° , 54' 01.903001"	-43° , 52' 59.69407"
26	616822,9770	7799137,9177	-19° , 54' 01.685113"	-43° , 53' 02.255334"
27	616781,5045	7799129,9937	-19° , 54' 01.951794"	-43° , 53' 03.679637"
28	616753,7512	7799115,1588	-19° , 54' 02.440299"	-43° , 53' 04.630605"
29	616712,1090	7799055,4679	-19° , 54' 04.390788"	-43° , 53' 06.048953"
30	616669,5750	7798960,1789	-19° , 54' 07.499335"	-43° , 53' 07.48987"

31	616636,7814	7798875,7237	-19°, 54' 10,2534"	-43°, 53' 08,598322"
32	616625,6605	7798804,6667	-19°, 54' 12,567005"	-43°, 53' 08,964563"
33	616590,1504	7798677,3078	-19°, 54' 16,717144"	-43°, 53' 10,156678"
34	616435,7892	7798638,1459	-19°, 54' 18,024142"	-43°, 53' 15,455917"
35	616330,8351	7798744,6931	-19°, 54' 14,581128"	-43°, 53' 19,089265"
36	616251,6054	7798811,1398	-19°, 54' 12,436885"	-43°, 53' 21,828872"
37	616159,6136	7798864,6266	-19°, 54' 10,716903"	-43°, 53' 25,004375"
38	616044,0046	7798907,8332	-19°, 54' 09,336341"	-43°, 53' 28,989665"
39	615952,3794	7798928,6615	-19°, 54' 08,6785"	-43°, 53' 32,145133"
40	615894,0561	7798921,7361	-19°, 54' 08,916241"	-43°, 53' 34,149151"
41	615845,8727	7798898,3976	-19°, 54' 09,685663"	-43°, 53' 35,800775"
42	615812,0327	7798873,0351	-19°, 54' 10,517847"	-43°, 53' 36,958712"
43	615726,3179	7798779,2346	-19°, 54' 13,587147"	-43°, 53' 39,885038"
44	615687,3648	7798755,6929	-19°, 54' 14,361193"	-43°, 53' 41,219229"
45	615634,5730	7798742,7872	-19°, 54' 14,792242"	-43°, 53' 43,031706"
46	615503,3731	7798730,9983	-19°, 54' 15,20369"	-43°, 53' 47,540721"
47	615450,5896	7798732,5731	-19°, 54' 15,163723"	-43°, 53' 49,356186"
48	615397,5947	7798744,9122	-19°, 54' 14,773674"	-43°, 53' 51,181345"
49	615341,4648	7798770,4312	-19°, 54' 13,955595"	-43°, 53' 53,117275"
50	615320,5692	7798810,0042	-19°, 54' 12,672882"	-43°, 53' 53,844737"
51	615274,8472	7798883,3247	-19°, 54' 10,297774"	-43°, 53' 55,433511"
52	615245,7833	7798913,0526	-19°, 54' 09,337021"	-43°, 53' 56,439635"
53	615205,4357	7798936,6300	-19°, 54' 08,57872"	-43°, 53' 57,83239"
54	614905,2222	7799015,9046	-19°, 54' 06,063988"	-43°, 54' 08,173754"
55	614813,5473	7799039,8657	-19°, 54' 05,304063"	-43°, 54' 11,33158"
56	614751,5360	7799068,8519	-19°, 54' 04,37439"	-43°, 54' 13,470474"
57	614678,4648	7799114,4745	-19°, 54' 02,90593"	-43°, 54' 15,993404"
58	614618,4045	7799133,7770	-19°, 54' 02,290803"	-43°, 54' 18,063026"
59	614583,0044	7799134,8556	-19°, 54' 02,26321"	-43°, 54' 19,280576"
60	614534,4771	7799128,4280	-19°, 54' 02,482541"	-43°, 54' 20,947854"
61	614493,1269	7799110,8597	-19°, 54' 03,062716"	-43°, 54' 22,365844"
62	614462,6825	7799089,7854	-19°, 54' 03,754621"	-43°, 54' 23,408033"
63	614408,6408	7799147,1553	-19°, 54' 01,900004"	-43°, 54' 25,27919"
64	614375,9106	7799110,9868	-19°, 54' 03,083347"	-43°, 54' 26,396613"
65	614356,7015	7799122,2905	-19°, 54' 02,719735"	-43°, 54' 27,059683"
66	614458,1561	7799232,1667	-19°, 53' 59,12443"	-43°, 54' 23,595492"
67	614497,2429	7799296,3964	-19°, 53' 57,02701"	-43°, 54' 22,265769"
68	614530,5396	7799337,8263	-19°, 53' 55,672407"	-43°, 54' 21,130062"
69	614582,0282	7799353,4580	-19°, 53' 55,153075"	-43°, 54' 19,363032"
70	614636,4497	7799348,5731	-19°, 53' 55,300449"	-43°, 54' 17,490563"
71	614676,3039	7799327,3116	-19°, 53' 55,983573"	-43°, 54' 16,11535"
72	614710,5640	7799289,9113	-19°, 53' 57,192814"	-43°, 54' 14,928883"
73	614718,9438	7799261,6393	-19°, 53' 58,110624"	-43°, 54' 14,634398"
74	614722,9462	7799175,8661	-19°, 54' 00,899666"	-43°, 54' 14,477562"
75	614729,2075	7799142,7544	-19°, 54' 01,975342"	-43°, 54' 14,254839"
76	614759,7090	7799096,9231	-19°, 54' 03,459605"	-43°, 54' 13,195715"
77	614807,9867	7799069,5276	-19°, 54' 04,340449"	-43°, 54' 11,529441"
78	614937,1698	7799033,0437	-19°, 54' 05,499737"	-43°, 54' 07,079007"
79	615149,7280	7798979,7937	-19°, 54' 07,186612"	-43°, 53' 59,757739"
80	615227,1020	7798960,2897	-19°, 54' 07,804549"	-43°, 53' 57,092664"
81	615263,6847	7798948,2624	-19°, 54' 08,187968"	-43°, 53' 55,831973"
82	615298,2416	7798921,9451	-19°, 54' 09,036616"	-43°, 53' 54,637728"
83	615346,2774	7798825,5653	-19°, 54' 12,161263"	-43°, 53' 52,964196"
84	615423,0718	7798769,3976	-19°, 54' 13,971826"	-43°, 53' 50,310761"
85	615466,2626	7798769,0107	-19°, 54' 13,975203"	-43°, 53' 48,825439"
86	615596,8127	7798783,3298	-19°, 54' 13,481605"	-43°, 53' 44,339349"
87	615665,1620	7798791,4270	-19°, 54' 13,20364"	-43°, 53' 41,990802"
88	615710,5214	7798809,7923	-19°, 54' 12,596596"	-43°, 53' 40,435146"
89	615795,3905	7798961,6354	-19°, 54' 07,639572"	-43°, 53' 37,551023"
90	615843,5089	7798995,6965	-19°, 54' 06,521403"	-43°, 53' 35,904063"
91	615904,1294	7799002,4482	-19°, 54' 06,288826"	-41°, 53' 33,821018"
92	616048,8055	7798963,9656	-19°, 54' 07,509539"	-43°, 53' 28,837291"
93	616144,0257	7798936,9630	-19°, 54' 08,367419"	-43°, 53' 25,556804"
94	616255,3781	7798936,1228	-19°, 54' 08,370856"	-43°, 53' 21,727502"
95	616286,2145	7798851,8932	-19°, 54' 11,103903"	-43°, 53' 20,648001"
96	616390,9680	7798784,7307	-19°, 54' 13,265938"	-43°, 53' 17,030532"
97	616456,7382	7798769,0571	-19°, 54' 13,7616"	-43°, 53' 14,765289"

98	616513,0603	7798799,3451	-19°, 54' 12,764333"	-43°, 53' 12,835396"
99	616667,0208	7799114,1672	-19°, 54' 02,49124"	-43°, 53' 07,61277"
100	616763,2331	7799239,6885	-19°, 53' 58,387785"	-43°, 53' 04,332933"
101	616925,7333	7799234,5499	-19°, 53' 58,51987"	-43°, 52' 58,743922"
102	617104,0320	7799219,5484	-19°, 53' 58,969293"	-43°, 52' 52,609399"
103	617192,9741	7799221,3050	-19°, 53' 58,892922"	-43°, 52' 49,55138"
104	617259,0655	7799277,1641	-19°, 53' 57,061741"	-43°, 52' 47,291502"
105	617357,9551	7799454,0719	-19°, 53' 51,286208"	-43°, 52' 43,931551"
106	617470,6575	779951,8800	-19°, 53' 49,283932"	-43°, 52' 40,070088"
107	617677,6471	7799531,9465	-19°, 53' 48,683903"	-43°, 52' 32,956457"
108	617768,7475	7799589,6348	-19°, 53' 46,787735"	-43°, 52' 29,837139"
109	617847,3684	7799786,0481	-19°, 53' 40,382093"	-43°, 52' 27,178858"
110	617909,4511	7799849,1610	-19°, 53' 38,315774"	-43°, 52' 25,058635"
111	618063,1033	7799871,7066	-19°, 53' 37,548997"	-43°, 52' 19,780448"
112	618171,9611	7799918,5509	-19°, 53' 36,001608"	-43°, 52' 16,048145"
113	618354,7680	7799923,1056	-19°, 53' 35,813563"	-43°, 52' 09,763353"
114	618530,9859	7799885,4159	-19°, 53' 37,000938"	-43°, 52' 03,695364"
115	618865,5085	7799731,7572	-19°, 53' 41,925548"	-43°, 51' 52,157113"
116	618873,6550	7799790,1663	-19°, 53' 40,02395"	-43°, 51' 51,89054"
117	618923,1159	7799905,2878	-19°, 53' 36,268663"	-43°, 51' 50,216523"
118	619019,4770	7800030,9184	-19°, 53' 32,161255"	-43°, 51' 46,932309"
119	619040,4934	7800149,3566	-19°, 53' 28,304327"	-43°, 51' 46,237168"
120	618978,3261	7800328,1502	-19°, 53' 22,502551"	-43°, 51' 48,416262"
121	619011,4341	7800492,0180	-19°, 53' 17,165328"	-43°, 51' 47,315907"
122	618981,7601	7800594,5822	-19°, 53' 13,835846"	-43°, 51' 48,360016"
123	618871,0959	7800785,3403	-19°, 53' 07,655537"	-43°, 51' 52,209288"
124	618913,1176	7800936,4588	-19°, 53' 02,731046"	-43°, 51' 50,799481"
125	619002,8931	7801011,2225	-19°, 53' 00,279586"	-43°, 51' 47,730071"
126	619084,1429	7801054,6736	-19°, 52' 58,848457"	-43°, 51' 44,946555"
127	619249,3454	7801070,5003	-19°, 52' 58,297367"	-43°, 51' 39,270106"
128	619338,5741	7801169,6541	-19°, 52' 55,052665"	-43°, 51' 36,225247"
129	619381,9349	7801284,2720	-19°, 52' 51,315066"	-43°, 51' 34,761068"
130	619222,4357	7801070,5003	-19°, 52' 58,303285"	-43°, 51' 40,195337"
131	619207,1765	7801647,5269	-19°, 52' 39,538305"	-43°, 51' 40,854086"
132	619337,2630	7801781,3474	-19°, 52' 35,157056"	-43°, 51' 36,412623"
133	619423,3471	7801871,5148	-19°, 52' 32,205329"	-43°, 51' 33,47392"
134	619499,1815	7801829,7847	-19°, 52' 33,545936"	-43°, 51' 30,856924"
135	619452,1897	7801778,8535	-19°, 52' 35,212872"	-43°, 51' 32,460704"
136	619386,5399	7801732,9200	-19°, 52' 36,721358"	-43°, 51' 34,707147"
137	619453,8562	7801414,9313	-19°, 52' 47,049412"	-43°, 51' 32,318672"
138	619497,9695	7801384,5360	-19°, 52' 48,028328"	-43°, 51' 30,794884"
139	619505,6596	7801353,0835	-19°, 52' 49,049654"	-43°, 51' 30,523155"
140	619479,7663	7801314,2104	-19°, 52' 50,319743"	-43°, 51' 31,404369"
141	619473,5390	7801246,6546	-19°, 52' 52,51843"	-43°, 51' 31,602743"
142	619454,3779	7801135,6098	-19°, 52' 56,134485"	-43°, 51' 32,235686"
143	619429,2539	7801060,9112	-19°, 52' 58,56966"	-43°, 51' 33,082121"
144	619389,8531	7801028,9223	-19°, 52' 59,618806"	-43°, 51' 34,429383"
145	619324,8083	7801006,6072	-19°, 53' 00,358945"	-43°, 51' 36,660617"
146	619178,0001	7800974,0115	-19°, 53' 01,451443"	-43°, 51' 41,700735"
147	619081,3286	7800965,8639	-19°, 53' 01,737694"	-43°, 51' 45,022698"
148	619045,9989	7800936,3775	-19°, 53' 02,704527"	-43°, 51' 46,230595"
149	619035,9658	7800849,9575	-19°, 53' 05,517622"	-43°, 51' 46,555504"
150	618998,1			

163	618973,7848	7799798,7576	-19° 53' 39,722533"	-43° 51' 48,449539"		173	618445,1293	77
164	618874,8523	7799598,7118	-19° 53' 46,250922"	-43° 51' 51,804962"		174	618405,1907	77
165	618806,1803	7799463,1448	-19° 53' 50,675429"	-43° 51' 54,134867"		175	618356,0832	77
166	618686,9432	7799458,3137	-19° 53' 50,858701"	-43° 51' 58,233832"		176	618220,9329	77
167	618607,0026	7799514,2861	-19° 53' 49,055654"	-43° 52' 00,995625"		177	618118,9417	77
168	618597,1966	7799534,7313	-19° 53' 48,392801"	-43° 52' 01,337545"		178	618035,6347	77
169	618587,5514	7799583,8932	-19° 53' 46,795875"	-43° 52' 01,68058"		179	618035,4553	77
170	618597,9481	7799646,0284	-19° 53' 44,772593"	-43° 52' 01,337461"				Área da
171	618486,7419	7799751,1855	-19° 53' 41,376589"	-43° 52' 05,18567"				Área da Faixa de Don
172	618474,7843	7799755,0094	-19° 53' 41,254827"	-43° 52' 05,597722"				Diferenç

Polygonal

ojo - Ferrovia Existente

das Áreas