

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+5,696	1,866	0,000			
			4,652	16,259	0,047
0+15,000	1,629	0,010			
			2,500	7,855	0,025
1	1,513	0,000			
			10,000	33,810	0,000
2	1,868	0,000			
			10,000	28,870	0,000
3	1,019	0,000			
			4,753	6,368	0,451
3+9,505	0,321	0,095			
			5,248	10,059	0,499
4	1,596	0,000			
			0,684	2,258	0,000
4+1,367	1,708	0,000			
			4,317	20,728	0,000
4+10,000	3,094	0,000			
			5,000	27,585	0,000
5	2,423	0,000			
			4,979	28,345	0,000
5+9,958	3,270	0,000			
			0,021	0,137	0,000
5+10,000	3,273	0,000			
			5,000	38,130	0,000
6	4,353	0,000			
			5,000	40,845	0,000
6+10,000	3,816	0,000			
			5,000	32,700	0,000
7	2,724	0,000			
			5,000	23,250	0,000
7+10,000	1,926	0,000			

	Corte	Aterro
Áreas	36,3990 m ²	0,105 m ²
Volumes	317,199 m ³	1,022 m ³

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Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+8,533	2,568	0,000			
			5,734	29,201	0,000
1	2,525	0,000			
			10,000	53,780	0,000
2	2,853	0,000			
			1,755	10,274	0,000
2+3,510	3,001	0,000			
			8,245	48,283	0,000
3	2,855	0,000			
			1,755	9,456	0,000
3+3,510	2,533	0,000			
			3,245	14,181	0,000
3+10,000	1,837	0,000			
			5,000	15,115	0,620
4	1,186	0,124			
			5,000	13,490	0,870
4+10,000	1,512	0,050			
			5,000	16,815	0,250
5	1,851	0,000			
			9,875	37,168	0,000
5+19,749	1,913	0,000			
			0,126	0,484	0,000
6	1,940	0,000			
			3,500	16,415	0,000
6+7,000	2,750	0,000			
			5,043	28,288	0,000
6+17,085	2,860	0,000			
			1,458	7,140	0,000
7	2,039	0,000			
			0,543	2,543	0,000
7+1,085	2,649	0,000			
			2,000	14,074	0,000
7+5,085	4,388	0,000			
			2,458	20,582	0,000
7+10,000	3,987	0,000			
			2,500	17,372	0,000
7+15,000	2,962	0,000			
			2,500	13,835	0,000
8	2,572	0,000			
			5,000	24,130	0,000
8+10,000	2,254	0,000			
			5,000	23,315	0,000
9	2,409	0,000			
			5,000	24,495	0,000
9+10,000	2,490	0,000			
			5,000	25,540	0,000
10	2,618	0,000			
			5,000	23,895	0,000
10+10,000	2,161	0,000			

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Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
10+10,000	2,161	0,000			
			2,901	12,532	0,000
10+15,802	2,159	0,000			
			2,099	8,925	0,000
11	2,093	0,000			
			7,901	27,551	0,000
11+15,802	1,394	0,000			
			2,099	5,271	0,031
12	1,117	0,015			
			6,993	13,881	1,615
12+13,986	0,868	0,216			
			3,007	7,136	0,650
13	1,505	0,000			
			6,993	32,783	0,000
13+13,986	3,183	0,000			
			3,007	20,357	0,000
14	3,587	0,000			
			2,163	12,251	0,000
14+4,325	2,078	0,000			

	Corte	Aterro
Áreas	80,6970 m ²	0,405 m ²
Volumes	630,558 m ³	4,036 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+4,024	2,102	0,000			
			5,488	21,019	0,000
0+15,000	1,728	0,000			
			2,500	8,480	0,000
1	1,664	0,000			
			5,000	17,025	0,045
1+10,000	1,741	0,009			
			5,000	18,400	0,045
2	1,939	0,000			
			5,000	16,470	0,000
2+10,000	1,355	0,000			
			5,000	12,730	0,000
3	1,191	0,000			
			5,000	15,080	0,000
3+10,000	1,825	0,000			
			5,000	20,050	0,000
4	2,185	0,000			
			5,000	22,285	0,000
4+10,000	2,272	0,000			
			5,000	21,645	0,000
5	2,057	0,000			
			5,000	24,550	0,000
5+10,000	2,853	0,000			
			5,000	28,205	0,000
6	2,788	0,000			
			4,000	19,084	0,000
6+8,000	1,983	0,000			
			1,000	3,668	0,000
6+10,000	1,685	0,000			
			4,474	13,288	0,000
6+18,948	1,285	0,000			
			0,526	1,410	0,000
7	1,395	0,000			
			1,474	3,972	0,000
7+2,948	1,300	0,000			

	Corte	Aterro
Áreas	33,3480 m ²	0,009 m ²
Volumes	267,361 m ³	0,090 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+10,000	2,297	0,000			
			5,000	25,430	0,000
1	2,789	0,000			
			0,736	4,139	0,000
1+1,472	2,834	0,000			
			9,264	50,183	0,000
2	2,583	0,000			
			1,517	7,924	0,000
2+3,033	2,642	0,000			
			8,484	50,078	0,000
3	3,261	0,000			
			1,517	9,707	0,000
3+3,033	3,140	0,000			
			8,484	46,846	0,000
4	2,382	0,000			
			10,000	51,090	0,000
5	2,727	0,000			
			10,000	55,700	0,000
6	2,843	0,000			
			10,000	57,230	0,000
7	2,880	0,000			
			10,000	56,170	0,000
8	2,737	0,000			
			4,046	23,953	0,000
8+8,091	3,184	0,000			
			5,955	33,393	0,000
9	2,424	0,000			
			10,000	40,030	0,000
10	1,579	0,000			
			1,306	3,965	0,000
10+2,612	1,457	0,000			
			8,694	28,682	0,000
11	1,842	0,000			
			1,306	4,958	0,000
11+2,612	1,954	0,000			
			8,694	40,123	0,000
12	2,661	0,000			
			10,000	48,280	0,000
13	2,167	0,000			
			3,189	13,292	0,000
13+6,378	2,001	0,000			
			6,811	25,855	0,000
14	1,795	0,000			
			3,189	12,051	0,000
14+6,378	1,984	0,000			
			1,811	7,575	0,000
14+10,000	2,199	0,000			
			5,000	25,000	0,000
15	2,801	0,000			

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
15	2,801	0,000			
			4,002	23,577	0,000
15+8,003	3,091	0,000			
			1,750	9,571	0,000
15+11,503	2,378	0,000			

	Corte	Aterro
Áreas	66,6320 m ²	0,000 m ²
Volumes	754,802 m ³	0,000 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+10,000	2,153	0,000			
			5,000	25,600	0,000
1	2,967	0,000			
			2,576	17,392	0,000
1+5,151	3,786	0,000			
			1,750	11,571	0,000
1+8,651	2,826	0,000			
			1,750	11,296	0,000
1+12,151	3,629	0,000			
			3,925	23,684	0,000
2	2,406	0,000			
			0,430	2,048	0,000
2+0,860	2,356	0,000			

	Corte	Aterro
Áreas	20,1230 m ²	0,000 m ²
Volumes	91,591 m ³	0,000 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+10,000	2,880	0,000			
			5,000	27,805	0,000
1	2,681	0,000			
			4,681	23,981	0,000
1+9,362	2,442	0,000			
			4,362	19,439	0,000
1+18,085	2,015	0,000			

	Corte	Aterro
Áreas	10,0180 m ²	0,000 m ²
Volumes	71,225 m ³	0,000 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto					
Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
7+8,395	1,775	0,000			
			5,803	21,086	0,000
8	1,859	0,000			
			9,500	39,729	0,000
8+19,000	2,323	0,000			
			0,500	2,332	0,000
9	2,341	0,000			
			10,000	41,810	0,000
10	1,840	0,000			
			10,000	40,980	0,000
11	2,258	0,000			
			9,451	45,346	0,000
11+18,902	2,540	0,000			
			0,549	2,770	0,000
12	2,505	0,000			
			10,000	43,130	0,000
13	1,808	0,000			
			10,000	43,730	0,000
14	2,565	0,000			
			4,653	28,076	0,000
14+9,306	3,469	0,000			
			5,347	32,328	0,000
15	2,577	0,000			
			3,979	20,597	0,000
15+7,957	2,600	0,000			
			6,022	29,560	0,000
16	2,309	0,000			

	Corte	Aterro
Áreas	32,7690 m ²	0,000 m ²
Volumes	391,474 m ³	0,000 m ³

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

Estaca	Área Corte	Área Aterro	Semi-Dis.	Vol.Corte	Vol.Aterro
0+4,612	2,455	0,000			
			5,194	28,458	0,000
0+15,000	3,024	0,000			
			2,500	15,192	0,000
1	3,053	0,000			
			10,000	54,150	0,000
2	2,362	0,000			
			10,000	50,690	0,000
3	2,707	0,000			
			10,000	60,590	0,000
4	3,352	0,000			
			5,000	34,995	0,000
4+10,000	3,647	0,000			
			5,000	35,535	0,000
5	3,460	0,000			
			5,000	34,450	0,000
5+10,000	3,430	0,000			
			5,000	31,875	0,000
6	2,945	0,000			
			5,000	30,680	0,000
6+10,000	3,191	0,000			
			5,000	33,615	0,000
7	3,532	0,000			
			3,879	30,353	0,000
7+7,758	4,293	0,000			
			6,121	49,494	0,000
8	3,793	0,000			
			5,000	42,895	0,000
8+10,000	4,786	0,000			
			5,000	50,840	0,000
9	5,382	0,000			
			5,000	52,085	0,000
9+10,000	5,035	0,000			
			5,000	45,675	0,000
10	4,100	0,000			
			10,000	72,680	0,000
11	3,168	0,000			
			10,000	61,920	0,000
12	3,024	0,000			
			10,000	61,230	0,000
13	3,099	0,000			
			5,000	29,210	0,000
13+10,000	2,743	0,000			
			5,000	26,980	0,000
14	2,653	0,000			
			3,783	20,315	0,000
14+7,566	2,717	0,000			

Cálculo de Volume por Comparação de Perfis: Terreno x Projeto

	Corte	Aterro
Áreas	81,9510 m ²	0,000 m ²
Volumes	953,907 m ³	0,000 m ³

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+5,696	-4,520	157,556	0,228	-4,520	157,328	-4,000	157,563	-0,98	157,602	157,602	0,000	4,000	157,641	0,98	4,520	157,416	4,520	157,633	0,217
0+15,000	-4,520	157,047	0,269	-4,520	156,778	-4,000	157,024	-3,00	157,124	157,144	-0,020	4,000	157,264	3,00	4,520	157,050	4,520	157,265	0,215
1	-4,520	156,762	0,230	-4,520	156,532	-4,000	156,778	-3,00	156,864	156,898	-0,034	4,000	157,018	3,00	4,520	156,804	4,520	156,876	0,072
2	-4,520	155,712	0,165	-4,520	155,547	-4,000	155,793	-3,00	155,864	155,913	-0,049	4,000	156,033	3,00	4,520	155,819	4,521	156,278	0,459
3	-4,520	154,568	0,005	-4,520	154,563	-4,000	154,809	-3,00	154,781	154,929	-0,148	4,000	155,049	3,00	4,520	154,835	4,520	155,070	0,235
3+9,505	-4,520	154,173	0,078	-4,520	154,095	-4,000	154,341	-3,00	154,218	154,461	-0,243	4,000	154,581	3,00	4,520	154,367	4,520	154,490	0,123
4	-4,520	153,979	0,400	-4,520	153,579	-4,000	153,824	-3,00	153,816	153,944	-0,128	4,000	154,064	3,00	4,520	153,850	4,520	153,907	0,057
4+1,367	-4,520	153,958	0,446	-4,520	153,512	-4,000	153,757	-3,00	153,786	153,877	-0,091	4,000	153,997	3,00	4,520	153,783	4,520	153,820	0,037
4+10,000	-4,520	153,362	0,275	-4,520	153,087	-4,000	153,332	-3,00	153,605	153,452	0,153	4,000	153,572	3,00	4,520	153,358	4,520	153,705	0,347
5	-4,520	152,741	0,231	-4,520	152,510	-4,000	152,756	-3,00	152,960	152,876	0,084	4,000	152,996	3,00	4,520	152,782	4,520	153,008	0,226
5+9,958	-4,520	152,178	0,409	-4,520	151,769	-4,000	152,015	-3,00	152,281	152,135	0,146	4,000	152,255	3,00	4,520	152,041	4,520	152,310	0,269
5+10,000	-4,520	152,176	0,410	-4,520	151,766	-4,000	152,012	-3,00	152,278	152,132	0,147	4,000	152,252	3,00	4,520	152,037	4,520	152,307	0,270
6	-4,521	151,587	0,554	-4,520	151,033	-4,000	151,278	-3,00	151,643	151,398	0,245	4,000	151,518	3,00	4,520	151,304	4,520	151,674	0,370
6+10,000	-4,521	150,991	0,501	-4,520	150,490	-4,000	150,736	-3,00	151,042	150,856	0,186	4,000	150,976	3,00	4,520	150,762	4,520	151,092	0,330
7	-4,520	150,402	0,359	-4,520	150,043	-4,000	150,289	-3,00	150,484	150,409	0,075	4,000	150,529	3,00	4,520	150,315	4,520	150,516	0,201
7+10,000	-4,520	150,024	0,428	-4,520	149,596	-4,000	149,842	-3,00	149,962	149,962	0,000	4,000	150,082	3,00	4,520	149,868	4,520	149,979	0,111

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+8,533	-4,520	141,616	0,259	-4,520	141,357	-4,000	141,603	-3,00	141,723	141,723	0,000	4,000	141,603	-3,00	4,520	141,357	4,520	141,724	0,367
1	-4,520	141,792	0,321	-4,520	141,471	-4,000	141,716	-3,00	141,823	141,836	-0,013	4,000	141,716	-3,00	4,520	141,471	4,520	141,848	0,377
2	-4,520	142,081	0,413	-4,520	141,668	-4,000	141,914	-3,00	142,034	142,034	0,000	4,000	141,914	-3,00	4,520	141,668	4,520	142,070	0,402
2+3,510	-4,520	142,126	0,424	-4,520	141,702	-4,000	141,948	-3,00	142,078	142,068	0,010	4,000	141,948	-3,00	4,520	141,702	4,520	142,134	0,432
3	-4,521	142,514	0,466	-4,520	142,048	-4,000	142,294	-3,00	142,378	142,414	-0,036	4,000	142,294	-3,00	4,520	142,048	4,521	142,660	0,612
3+3,510	-4,520	142,612	0,443	-4,520	142,169	-4,000	142,414	-3,00	142,461	142,534	-0,073	4,000	142,414	-3,00	4,520	142,169	4,521	142,745	0,576
3+10,000	-4,520	142,776	0,369	-4,520	142,407	-4,000	142,653	-3,00	142,613	142,773	-0,160	4,000	142,653	-3,00	4,520	142,407	4,521	142,907	0,500
4	-4,520	143,034	0,322	-4,520	142,712	-4,000	142,958	-3,00	142,777	143,078	-0,301	4,000	142,958	-3,00	4,520	142,712	4,520	143,140	0,428
4+10,000	-4,520	143,285	0,392	-4,520	142,893	-4,000	143,138	-3,00	142,999	143,258	-0,259	4,000	143,138	-3,00	4,520	142,893	4,521	143,386	0,493
5	-4,520	143,392	0,381	-4,520	143,011	-4,000	143,257	-3,00	143,230	143,377	-0,147	4,000	143,257	-3,00	4,520	143,011	4,520	143,456	0,445
5+19,749	-4,520	143,534	0,289	-4,520	143,245	-4,000	143,491	-3,00	143,505	143,611	-0,106	4,000	143,491	-3,00	4,520	143,245	4,520	143,613	0,368
6	-4,520	143,539	0,293	-4,520	143,246	-4,000	143,492	-3,00	143,509	143,612	-0,103	4,000	143,492	-3,00	4,520	143,246	4,520	143,615	0,369
6+7,000	-4,520	143,688	0,414	-4,520	143,274	-4,000	143,520	-3,00	143,628	143,640	-0,012	4,000	143,520	-3,00	4,520	143,274	4,520	143,658	0,384
6+17,085	-4,520	143,768	0,354	-4,520	143,414	-4,000	143,648	-0,80	143,766	143,680	0,086	4,000	143,712	0,80	4,520	143,486	4,520	143,765	0,279
7	-4,520	143,635	0,134	-4,520	143,501	-4,000	143,735	-0,80	143,763	143,767	-0,004	4,000	143,799	0,80	4,520	143,574	4,520	143,872	0,298
7+1,085	-4,520	143,789	0,255	-4,520	143,534	-4,000	143,768	-0,80	143,883	143,800	0,083	4,000	143,832	0,80	4,520	143,606	4,520	143,863	0,257
7+5,085	-4,521	143,940	0,526	-4,520	143,414	-4,000	143,648	-0,80	143,933	143,680	0,253	4,000	143,712	0,80	4,520	143,486	4,521	143,941	0,455
7+10,000	-4,521	144,106	0,651	-4,520	143,455	-4,000	143,695	-1,89	143,942	143,770	0,172	4,000	143,727	-1,08	4,520	143,491	4,520	143,882	0,391
7+15,000	-4,520	143,928	0,440	-4,520	143,488	-4,000	143,733	-3,00	143,833	143,853	-0,020	4,000	143,733	-3,00	4,520	143,488	4,521	143,994	0,506
8	-4,520	143,928	0,371	-4,520	143,557	-4,000	143,802	-2,90	143,857	143,918	-0,061	4,000	143,804	-2,86	4,520	143,559	4,521	144,060	0,501
8+10,000	-4,520	143,948	0,307	-4,520	143,641	-4,000	143,886	-2,71	143,926	143,994	-0,068	4,000	143,890	-2,59	4,520	143,647	4,520	144,065	0,418
9	-4,520	144,000	0,310	-4,520	143,690	-4,000	143,933	-2,52	143,970	144,034	-0,064	4,000	143,941	-2,32	4,520	143,699	4,520	144,111	0,412
9+10,000	-4,520	144,072	0,333	-4,520	143,739	-4,000	143,981	-2,33	144,037	144,074	-0,037	4,000	143,992	-2,05	4,520	143,751	4,520	144,100	0,349
10	-4,520	144,165	0,344	-4,520	143,821	-4,000	144,062	-2,14	144,149	144,148	0,001	4,000	144,077	-1,78	4,520	143,837	4,520	144,205	0,368
10+10,000	-4,520	144,281	0,311	-4,520	143,970	-4,000	144,211	-1,95	144,244	144,288	-0,044	4,000	144,228	-1,50	4,520	143,990	4,520	144,321	0,331
10+15,802	-4,520	144,395	0,318	-4,520	144,077	-4,000	144,316	-1,83	144,358	144,390	-0,032	4,000	144,336	-1,35	4,520	144,099	4,520	144,436	0,337
11	-4,520	144,484	0,323	-4,520	144,161	-4,000	144,400	-1,75	144,424	144,470	-0,046	4,000	144,421	-1,23	4,520	144,184	4,520	144,525	0,341
11+15,802	-4,520	145,040	0,437	-4,520	144,603	-4,000	144,840	-1,45	144,703	144,898	-0,195	4,000	144,866	-0,80	4,520	144,632	4,520	144,982	0,350
12	-4,520	145,150	0,403	-4,520	144,747	-4,000	144,984	-1,37	144,793	145,038	-0,245	4,000	145,011	-0,69	4,520	144,777	4,520	145,064	0,287
12+13,986	-4,520	145,421	0,195	-4,520	145,226	-4,000	145,462	-1,10	145,197	145,506	-0,309	4,000	145,494	-0,31	4,520	145,262	4,520	145,513	0,251
13	-4,520	145,816	0,344	-4,520	145,472	-4,000	145,707	-0,99	145,531	145,747	-0,216	4,000	145,741	-0,14	4,520	145,510	4,521	145,983	0,473

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
13+13,986	-4,520	146,772	0,419	-4,520	146,353	-4,000	146,587	-0,72	146,683	146,616	0,067	4,000	146,625	0,24	4,520	146,397	4,521	146,865	0,468
14	-4,520	147,255	0,430	-4,520	146,825	-4,000	147,058	-0,60	147,254	147,082	0,172	4,000	147,099	0,40	4,520	146,871	4,520	147,239	0,368
14+4,325	-4,520	147,447	0,283	-4,520	147,164	-4,000	147,397	-0,52	147,418	147,418	0,000	4,000	147,439	0,52	4,520	147,212	4,520	147,389	0,177

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+4,024	-4,520	153,360	0,249	-4,520	153,111	-4,000	153,327	2,84	153,213	153,213	0,000	4,000	153,099	-2,84	4,520	152,855	4,520	153,095	0,240
0+15,000	-4,520	153,290	0,095	-4,520	153,195	-4,000	153,410	3,00	153,254	153,290	-0,036	4,000	153,170	-3,00	4,520	152,924	4,520	153,243	0,319
1	-4,520	153,277	0,046	-4,520	153,231	-4,000	153,445	3,00	153,291	153,325	-0,034	4,000	153,205	-3,00	4,520	152,959	4,520	153,280	0,321
1+10,000	-4,572	153,266	-0,035	-4,520	153,301	-4,000	153,515	3,00	153,362	153,395	-0,033	4,000	153,275	-3,00	4,520	153,029	4,520	153,406	0,377
2	-4,520	153,453	0,034	-4,520	153,419	-4,000	153,633	3,00	153,474	153,513	-0,039	4,000	153,393	-3,00	4,520	153,148	4,520	153,576	0,428
2+10,000	-4,520	153,771	0,138	-4,520	153,633	-4,000	153,848	3,00	153,649	153,728	-0,079	4,000	153,608	-3,00	4,520	153,362	4,520	153,699	0,337
3	-4,520	153,935	0,070	-4,520	153,865	-4,000	154,079	3,00	153,861	153,959	-0,098	4,000	153,839	-3,00	4,520	153,594	4,520	153,926	0,332
3+10,000	-4,520	154,237	0,201	-4,520	154,036	-4,000	154,250	3,00	154,088	154,130	-0,042	4,000	154,010	-3,00	4,520	153,764	4,520	154,064	0,300
4	-4,520	154,410	0,234	-4,520	154,176	-4,000	154,390	3,00	154,262	154,270	-0,008	4,000	154,150	-3,00	4,520	153,904	4,520	154,269	0,365
4+10,000	-4,520	154,624	0,308	-4,520	154,316	-4,000	154,530	3,00	154,400	154,410	-0,010	4,000	154,290	-3,00	4,520	154,044	4,520	154,409	0,365
5	-4,521	154,829	0,458	-4,520	154,371	-4,000	154,585	3,00	154,411	154,465	-0,054	4,000	154,345	-3,00	4,520	154,100	4,520	154,339	0,239
5+10,000	-4,521	154,734	0,477	-4,520	154,257	-4,000	154,472	3,00	154,390	154,352	0,039	4,000	154,232	-3,00	4,520	153,986	4,520	154,302	0,316
6	-4,520	154,504	0,416	-4,520	154,088	-4,000	154,302	3,00	154,216	154,182	0,034	4,000	154,062	-3,00	4,520	153,816	4,520	154,144	0,328
6+8,000	-4,520	154,315	0,321	-4,520	153,994	-4,000	154,208	3,00	154,088	154,088	0,000	4,000	153,968	-3,00	4,520	153,723	4,520	153,999	0,276
6+10,000	-4,520	154,267	0,275	-4,520	153,992	-4,000	154,205	3,35	154,016	154,071	-0,055	4,000	153,937	-3,35	4,520	153,689	4,520	153,939	0,250
6+18,948	-4,520	154,170	0,181	-4,520	153,989	-4,000	154,194	4,92	153,819	153,997	-0,178	4,000	153,800	-4,92	4,520	153,545	4,520	153,790	0,245
7	-4,520	154,138	0,180	-4,520	153,958	-4,000	154,162	4,92	153,813	153,965	-0,152	4,000	153,769	-4,92	4,520	153,513	4,520	153,748	0,235
7+2,948	-4,520	153,907	0,038	-4,520	153,869	-4,000	154,074	4,92	153,786	153,877	-0,091	4,000	153,680	-4,92	4,520	153,425	4,520	153,688	0,263

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+10,000	-4,520	143,408	0,444	-4,520	142,964	-4,000	143,215	-3,96	143,373	143,373	0,000	4,000	143,243	-3,25	4,520	142,996	4,520	143,223	0,227
1	-4,520	143,294	0,382	-4,520	142,912	-4,000	143,157	-3,00	143,376	143,277	0,099	4,000	143,157	-3,00	4,520	142,912	4,520	143,145	0,233
1+1,472	-4,520	143,276	0,378	-4,520	142,898	-4,000	143,143	-3,00	143,372	143,263	0,109	4,000	143,143	-3,00	4,520	142,898	4,520	143,131	0,233
2	-4,520	143,029	0,309	-4,520	142,720	-4,000	142,966	-3,00	143,089	143,086	0,003	4,000	142,966	-3,00	4,520	142,720	4,520	143,049	0,329
2+3,033	-4,520	142,999	0,307	-4,520	142,692	-4,000	142,938	-3,00	143,065	143,058	0,007	4,000	142,938	-3,00	4,520	142,692	4,520	143,040	0,348
3	-4,521	143,178	0,518	-4,520	142,660	-4,000	142,906	-3,00	143,101	143,026	0,075	4,000	142,906	-3,00	4,520	142,660	4,520	143,067	0,407
3+3,033	-4,521	143,180	0,498	-4,520	142,682	-4,000	142,928	-3,00	143,105	143,048	0,057	4,000	142,928	-3,00	4,520	142,682	4,520	143,083	0,401
4	-4,521	143,356	0,529	-4,520	142,827	-4,000	143,073	-3,00	143,111	143,193	-0,082	4,000	143,073	-3,00	4,520	142,827	4,520	143,175	0,348
5	-4,520	143,321	0,402	-4,520	142,919	-4,000	143,165	-3,00	143,282	143,285	-0,003	4,000	143,165	-3,00	4,520	142,919	4,520	143,289	0,370
6	-4,521	143,605	0,594	-4,520	143,011	-4,000	143,257	-3,00	143,376	143,377	-0,001	4,000	143,257	-3,00	4,520	143,011	4,520	143,262	0,251
7	-4,521	143,834	0,644	-4,520	143,190	-4,000	143,436	-3,00	143,498	143,556	-0,058	4,000	143,436	-3,00	4,520	143,190	4,520	143,551	0,361
8	-4,521	143,964	0,595	-4,520	143,369	-4,000	143,615	-3,00	143,672	143,735	-0,063	4,000	143,615	-3,00	4,520	143,369	4,520	143,750	0,381
8+8,091	-4,521	143,921	0,487	-4,520	143,434	-4,000	143,680	-3,00	143,883	143,800	0,083	4,000	143,680	-3,00	4,520	143,434	4,520	143,748	0,314
9	-4,520	143,964	0,434	-4,520	143,530	-4,000	143,775	-3,00	143,852	143,895	-0,043	4,000	143,775	-3,00	4,520	143,530	4,520	143,800	0,270
10	-4,520	144,004	0,314	-4,520	143,690	-4,000	143,936	-3,00	143,906	144,056	-0,150	4,000	143,936	-3,00	4,520	143,690	4,520	143,997	0,307
10+2,612	-4,520	144,015	0,304	-4,520	143,711	-4,000	143,957	-3,00	143,908	144,077	-0,169	4,000	143,957	-3,00	4,520	143,711	4,520	144,008	0,297
11	-4,520	144,091	0,360	-4,520	143,731	-4,000	143,976	-3,00	143,940	144,096	-0,156	4,000	143,976	-3,00	4,520	143,731	4,520	144,048	0,317
11+2,612	-4,520	144,081	0,368	-4,520	143,713	-4,000	143,958	-3,00	143,953	144,078	-0,125	4,000	143,958	-3,00	4,520	143,713	4,520	144,026	0,313
12	-4,520	143,966	0,390	-4,520	143,576	-4,000	143,822	-3,00	143,933	143,942	-0,009	4,000	143,822	-3,00	4,520	143,576	4,520	143,915	0,339
13	-4,520	143,743	0,247	-4,520	143,496	-4,000	143,742	-3,00	143,812	143,862	-0,050	4,000	143,742	-3,00	4,520	143,496	4,520	143,911	0,415
13+6,378	-4,520	143,726	0,255	-4,520	143,471	-4,000	143,716	-3,00	143,676	143,836	-0,160	4,000	143,716	-3,00	4,520	143,471	4,520	143,856	0,385
14	-4,520	143,674	0,375	-4,520	143,299	-4,000	143,544	-3,00	143,486	143,664	-0,178	4,000	143,544	-3,00	4,520	143,299	4,521	143,757	0,458
14+6,378	-4,520	143,494	0,356	-4,520	143,138	-4,000	143,383	-3,00	143,389	143,503	-0,114	4,000	143,383	-3,00	4,520	143,138	4,520	143,548	0,410
14+10,000	-4,520	143,430	0,398	-4,520	143,032	-4,000	143,278	-3,00	143,280	143,398	-0,118	4,000	143,278	-3,00	4,520	143,032	4,520	143,434	0,402
15	-4,521	143,264	0,556	-4,520	142,708	-4,000	142,950	-2,18	142,981	143,037	-0,056	4,000	142,932	-2,62	4,520	142,689	4,520	143,060	0,371
15+8,003	-4,520	142,751	0,305	-4,520	142,446	-4,000	142,670	1,10	142,740	142,626	0,114	4,000	142,582	-1,10	4,520	142,346	4,520	142,748	0,402
15+11,503	-4,520	142,798	0,248	-4,520	142,550	-4,000	142,774	1,10	142,772	142,730	0,042	4,000	142,686	-1,10	4,520	142,450	4,520	142,708	0,258

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+10,000	-4,020	141,644	0,325	-4,020	141,319	-3,500	141,565	-3,00	141,670	141,670	0,000	3,500	141,565	-3,00	4,020	141,319	4,020	141,596	0,277
1	-4,020	141,673	0,371	-4,020	141,302	-3,500	141,536	-0,76	141,718	141,563	0,155	3,500	141,518	-1,28	4,020	141,282	4,020	141,586	0,304
1+5,151	-4,020	141,701	0,407	-4,020	141,294	-3,500	141,522	0,39	141,748	141,508	0,240	3,500	141,494	-0,39	4,020	141,262	4,021	141,809	0,547
1+8,651	-4,020	141,715	0,316	-4,020	141,399	-3,500	141,627	0,39	141,749	141,613	0,136	3,500	141,599	-0,39	4,020	141,367	4,020	141,695	0,328
1+12,151	-4,021	141,780	0,486	-4,020	141,294	-3,500	141,522	0,39	141,720	141,508	0,212	3,500	141,494	-0,39	4,020	141,262	4,020	141,706	0,444
2	-4,020	141,750	0,390	-4,020	141,360	-3,500	141,604	-2,67	141,718	141,697	0,021	3,500	141,601	-2,74	4,020	141,357	4,020	141,732	0,375
2+0,860	-4,020	141,767	0,400	-4,020	141,367	-3,500	141,613	-3,00	141,718	141,718	0,000	3,500	141,613	-3,00	4,020	141,367	4,020	141,736	0,369

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+10,000	-4,021	142,879	0,713	-4,020	142,166	-3,500	142,412	-3,00	142,517	142,517	0,000	3,500	142,412	-3,00	4,020	142,166	4,021	142,618	0,452
1	-4,021	142,834	0,557	-4,020	142,277	-3,500	142,522	-3,00	142,627	142,627	0,000	3,500	142,522	-3,00	4,020	142,277	4,020	142,671	0,394
1+9,362	-4,020	142,749	0,369	-4,020	142,380	-3,500	142,626	-3,00	142,772	142,731	0,041	3,500	142,626	-3,00	4,020	142,380	4,020	142,776	0,396
1+18,085	-4,021	142,969	0,491	-4,020	142,478	-3,500	142,724	-2,95	142,827	142,827	0,000	3,500	142,689	-3,95	4,020	142,438	4,020	142,810	0,372

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
7+8,395	-4,020	142,073	0,172	-4,020	141,901	-3,500	142,128	0,47	142,117	142,112	0,005	3,500	142,110	-0,07	4,020	141,879	4,020	142,103	0,224
8	-4,020	141,856	0,112	-4,020	141,744	-3,500	141,979	-0,85	142,002	142,008	-0,006	3,500	141,967	-1,18	4,020	141,731	4,020	142,076	0,345
8+19,000	-4,020	141,742	0,254	-4,020	141,488	-3,500	141,734	-3,00	141,856	141,839	0,017	3,500	141,734	-3,00	4,020	141,488	4,020	141,864	0,376
9	-4,020	141,738	0,259	-4,020	141,479	-3,500	141,725	-3,00	141,848	141,830	0,018	3,500	141,725	-3,00	4,020	141,479	4,020	141,855	0,376
10	-4,020	141,540	0,121	-4,020	141,419	-3,500	141,665	-3,00	141,729	141,770	-0,041	3,500	141,665	-3,00	4,020	141,419	4,020	141,835	0,416
11	-4,020	141,612	0,253	-4,020	141,359	-3,500	141,605	-3,00	141,757	141,710	0,047	3,500	141,605	-3,00	4,020	141,359	4,020	141,765	0,406
11+18,902	-4,020	141,718	0,416	-4,020	141,302	-3,500	141,548	-3,00	141,705	141,653	0,052	3,500	141,548	-3,00	4,020	141,302	4,020	141,689	0,387
12	-4,020	141,724	0,418	-4,020	141,306	-3,500	141,551	-3,00	141,699	141,656	0,043	3,500	141,551	-3,00	4,020	141,306	4,020	141,688	0,382
13	-4,020	141,434	0,069	-4,020	141,365	-3,500	141,611	-3,00	141,596	141,716	-0,120	3,500	141,611	-3,00	4,020	141,365	4,020	141,670	0,305
14	-4,020	141,723	0,436	-4,020	141,287	-3,500	141,532	-3,00	141,648	141,637	0,011	3,500	141,532	-3,00	4,020	141,287	4,020	141,651	0,364
14+9,306	-4,021	141,716	0,466	-4,020	141,250	-3,500	141,496	-3,00	141,749	141,601	0,148	3,500	141,496	-3,00	4,020	141,250	4,021	141,745	0,495
15	-4,020	141,553	0,345	-4,020	141,208	-3,500	141,453	-3,00	141,593	141,558	0,035	3,500	141,453	-3,00	4,020	141,208	4,020	141,610	0,402
15+7,957	-4,020	141,560	0,384	-4,020	141,176	-3,500	141,422	-3,00	141,547	141,527	0,020	3,500	141,422	-3,00	4,020	141,176	4,020	141,548	0,372
16	-4,020	141,644	0,426	-4,020	141,218	-3,500	141,464	-3,00	141,569	141,569	0,000	3,500	141,464	-3,00	4,020	141,218	4,020	141,508	0,290

Estaca	Lado Esquerdo								Eixo			Lado Direito							
	Offset da Regularização			Lateral		Bordo			Cota	Cota	Cota	Bordo			Lateral		Offset da Regularização		
	Distância	Cota	Altura	Distância	Cota	Distância	Cota	%	Terreno	Projeto	Vermelha	Distância	Cota	%	Distância	Cota	Distância	Cota	Altura
0+4,612	-4,520	153,089	0,283	-4,520	152,806	-4,000	153,039	-0,50	153,059	153,059	0,000	4,000	152,904	-3,88	4,520	152,654	4,520	152,967	0,313
0+15,000	-4,520	152,702	0,445	-4,520	152,257	-4,000	152,503	-3,00	152,666	152,623	0,043	4,000	152,503	-3,00	4,520	152,257	4,520	152,637	0,380
1	-4,520	152,485	0,438	-4,520	152,047	-4,000	152,293	-3,00	152,453	152,413	0,040	4,000	152,293	-3,00	4,520	152,047	4,520	152,444	0,397
2	-4,520	151,626	0,419	-4,520	151,207	-4,000	151,453	-3,00	151,522	151,573	-0,051	4,000	151,453	-3,00	4,520	151,207	4,520	151,543	0,336
3	-4,521	150,754	0,500	-4,520	150,254	-4,000	150,500	-3,00	150,598	150,620	-0,022	4,000	150,500	-3,00	4,520	150,254	4,520	150,551	0,297
4	-4,521	149,802	0,501	-4,520	149,301	-4,000	149,546	-3,00	149,715	149,666	0,049	4,000	149,546	-3,00	4,520	149,301	4,520	149,712	0,411
4+10,000	-4,521	149,409	0,585	-4,520	148,824	-4,000	149,070	-3,00	149,295	149,190	0,105	4,000	149,070	-3,00	4,520	148,824	4,520	149,228	0,404
5	-4,521	148,861	0,461	-4,520	148,400	-4,000	148,646	-3,00	148,873	148,766	0,107	4,000	148,646	-3,00	4,520	148,400	4,520	148,739	0,339
5+10,000	-4,521	148,580	0,498	-4,520	148,082	-4,000	148,328	-3,00	148,572	148,448	0,124	4,000	148,408	-1,00	4,520	148,173	4,520	148,496	0,323
6	-4,520	148,238	0,382	-4,520	147,856	-4,000	148,101	-3,00	148,322	148,221	0,101	4,000	148,261	1,00	4,520	148,037	4,520	148,269	0,232
6+10,000	-4,521	148,201	0,495	-4,520	147,706	-4,000	147,951	-3,00	148,209	148,071	0,138	4,000	148,191	3,00	4,520	147,977	4,520	148,155	0,178
7	-4,521	148,188	0,594	-4,520	147,594	-4,000	147,840	-3,00	148,105	147,960	0,145	4,000	148,080	3,00	4,520	147,865	4,520	148,069	0,204
7+7,758	-4,521	148,025	0,518	-4,520	147,507	-4,000	147,753	-3,00	148,164	147,873	0,291	4,000	147,993	3,00	4,520	147,779	4,520	148,143	0,364
8	-4,520	147,805	0,434	-4,520	147,371	-4,000	147,616	-3,00	147,943	147,736	0,207	4,000	147,856	3,00	4,520	147,642	4,520	148,006	0,364
8+10,000	-4,521	147,807	0,548	-4,520	147,259	-4,000	147,505	-3,00	147,968	147,625	0,343	4,000	147,745	3,00	4,520	147,530	4,520	147,889	0,359
9	-4,521	147,803	0,613	-4,520	147,190	-4,000	147,436	-3,00	147,962	147,556	0,406	4,000	147,676	3,00	4,520	147,461	4,520	147,855	0,394
9+10,000	-4,521	147,750	0,544	-4,520	147,206	-4,000	147,452	-3,00	147,928	147,572	0,356	4,000	147,692	3,00	4,520	147,478	4,520	147,848	0,370
10	-4,520	147,684	0,419	-4,520	147,265	-4,000	147,511	-3,00	147,860	147,631	0,229	4,000	147,751	3,00	4,520	147,537	4,520	147,848	0,311
11	-4,520	147,728	0,345	-4,520	147,383	-4,000	147,629	-3,00	147,846	147,749	0,097	4,000	147,869	3,00	4,520	147,655	4,520	148,077	0,422
12	-4,520	147,852	0,351	-4,520	147,501	-4,000	147,747	-3,00	147,953	147,867	0,086	4,000	147,987	3,00	4,520	147,773	4,521	148,235	0,462
13	-4,520	147,847	0,285	-4,520	147,562	-4,000	147,807	-3,00	148,044	147,927	0,117	4,000	148,047	3,00	4,520	147,833	4,520	148,237	0,404
13+10,000	-4,520	147,831	0,239	-4,520	147,592	-4,000	147,837	-3,00	148,068	147,957	0,111	4,000	148,077	3,00	4,520	147,863	4,520	148,184	0,321
14	-4,520	147,820	0,273	-4,520	147,547	-4,000	147,801	-4,65	148,068	147,987	0,081	4,000	148,019	0,79	4,520	147,793	4,520	148,113	0,320
14+7,566	-4,520	147,871	0,358	-4,520	147,513	-4,000	147,774	-5,90	148,010	148,010	0,000	4,000	147,975	-0,88	4,520	147,740	4,520	148,094	0,354

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	626.699,219	7.734.251,825	141,468	119°11'32"
1		20,000	626.689,464	7.734.234,365	141,806	119°11'32"
1+17,431	PI1	37,431	626.680,962	7.734.219,148	142,792	135°42'49"
2		40,000	626.678,689	7.734.217,952	142,737	152°14'07"
3		60,000	626.660,992	7.734.208,635	138,922	152°14'07"
3+14,976	PI-2	74,976	626.647,739	7.734.201,658	135,000	152°14'07"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	627.187,712	7.734.804,067	148,164	21°42'47"
1		20,000	627.206,293	7.734.796,668	147,810	21°42'47"
2		40,000	627.224,874	7.734.789,268	146,962	21°42'47"
2+19,662	PI1	59,662	627.243,140	7.734.781,994	146,498	25°50'39"
3		60,000	627.243,433	7.734.781,825	146,490	29°58'31"
4		80,000	627.260,758	7.734.771,833	146,205	29°58'31"
4+11,409	PI2	91,409	627.270,641	7.734.766,132	145,856	29°58'31"
5		100,000	627.278,083	7.734.761,840	146,030	29°58'31"
6		120,000	627.295,408	7.734.751,848	146,095	29°58'31"
7		140,000	627.312,733	7.734.741,855	145,672	29°58'31"
7+19,788	PI3	159,788	627.329,874	7.734.731,969	145,692	43°44'43"
8		160,000	627.329,988	7.734.731,790	145,694	57°30'54"
9		180,000	627.340,729	7.734.714,919	145,650	57°30'54"
9+13,224	PI-4	193,224	627.347,832	7.734.703,764	144,571	57°30'54"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	627.063,273	7.735.049,824	157,671	36°05'30"
0+5,696	V1	5,696	627.067,876	7.735.046,469	157,602	36°05'30"
0+15,000		15,000	627.075,395	7.735.040,988	157,124	36°05'30"
1		20,000	627.079,435	7.735.038,042	156,864	36°05'30"
2		40,000	627.095,596	7.735.026,261	155,864	36°05'30"
3		60,000	627.111,758	7.735.014,479	154,781	36°05'30"
3+9,505	PC3	69,505	627.119,439	7.735.008,880	154,218	36°05'30"
4		80,000	627.128,078	7.735.002,923	153,816	33°05'07"
4+1,367		81,367	627.129,226	7.735.002,181	153,786	32°41'37"
4+10,000	PCV2	90,000	627.136,589	7.734.997,676	153,605	30°13'13"
5		100,000	627.145,352	7.734.992,861	152,960	27°21'20"
5+9,958	PI4	109,958	627.154,307	7.734.988,507	152,281	24°30'11"
5+10,000	PCCV3	110,000	627.154,345	7.734.988,490	152,278	24°30'11"
6		120,000	627.163,445	7.734.984,342	151,643	24°30'11"
6+10,000	PTV3	130,000	627.172,544	7.734.980,195	151,042	24°30'11"
7		140,000	627.181,643	7.734.976,047	150,484	24°30'11"
7+10,000	V4	150,000	627.190,743	7.734.971,900	149,962	24°30'11"
8	PI-6	160,000	627.199,842	7.734.967,752	149,345	24°30'11"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	626.699,219	7.734.251,825	141,468	300°10'59"
0+8,533	V1	8,533	626.703,509	7.734.259,201	141,723	300°10'59"
1		20,000	626.709,274	7.734.269,114	141,823	300°10'59"
2		40,000	626.719,329	7.734.286,402	142,034	300°10'59"
2+3,510	PCV2	43,510	626.721,094	7.734.289,436	142,078	300°10'59"
3		60,000	626.729,385	7.734.303,691	142,378	300°10'59"
3+3,510	PTV2	63,510	626.731,149	7.734.306,725	142,461	300°10'59"
3+10,000	PCV3	70,000	626.734,412	7.734.312,335	142,613	300°10'59"
4		80,000	626.739,440	7.734.320,979	142,777	300°10'59"
4+10,000	PTV3	90,000	626.744,467	7.734.329,623	142,999	300°10'59"
5		100,000	626.749,495	7.734.338,268	143,230	300°10'59"
5+19,749	PIV4	119,749	626.759,424	7.734.355,339	143,505	300°10'59"
6		120,000	626.759,550	7.734.355,556	143,509	300°10'59"
6+7,000		127,000	626.763,070	7.734.361,607	143,628	300°10'59"
6+17,085	PIV5	137,085	626.768,140	7.734.370,325	143,766	300°10'59"
7		140,000	626.769,606	7.734.372,845	143,763	300°10'59"
7+1,085	PIV6	141,085	626.770,151	7.734.373,783	143,883	300°10'59"
7+5,085	PIV7	145,085	626.772,162	7.734.377,240	143,933	300°10'59"
7+10,000	PCV8	150,000	626.774,633	7.734.381,489	143,942	300°10'59"
7+15,000		155,000	626.777,147	7.734.385,811	143,833	300°10'59"
8		160,000	626.779,661	7.734.390,133	143,857	300°10'59"
8+10,000	PTV8	170,000	626.784,689	7.734.398,777	143,926	300°10'59"
9		180,000	626.789,716	7.734.407,422	143,970	300°10'59"
9+10,000	PCV9	190,000	626.794,744	7.734.416,066	144,037	300°10'59"
10		200,000	626.799,771	7.734.424,710	144,149	300°10'59"
10+10,000	PTV9	210,000	626.804,799	7.734.433,354	144,244	300°10'59"
10+15,802	PCV10	215,802	626.807,716	7.734.438,370	144,358	300°10'59"
11		220,000	626.809,827	7.734.441,998	144,424	300°10'59"
11+15,802	PTV10	235,802	626.817,771	7.734.455,658	144,703	300°10'59"
12		240,000	626.819,882	7.734.459,287	144,793	300°10'59"
12+13,986	PCV11	253,986	626.826,914	7.734.471,377	145,197	300°10'59"
13		260,000	626.829,937	7.734.476,575	145,531	300°10'59"
13+13,986	PTV11	273,986	626.836,969	7.734.488,665	146,683	300°10'59"
14		280,000	626.839,992	7.734.493,864	147,254	300°10'59"
14+4,325	V12	284,325	626.842,167	7.734.497,603	147,418	300°10'59"
14+8,087	PI-4	288,087	626.844,058	7.734.500,854	147,701	300°10'59"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	627.059,448	7.734.877,420	153,238	299°13'05"
0+4,024	V1	4,024	627.061,412	7.734.880,932	153,213	299°13'05"
0+15,000		15,000	627.066,770	7.734.890,512	153,254	299°13'05"
1		20,000	627.069,210	7.734.894,876	153,291	299°13'05"
1+10,000	PCV2	30,000	627.074,092	7.734.903,604	153,362	299°13'05"
2		40,000	627.078,973	7.734.912,331	153,474	299°13'05"
2+10,000	PCCV3	50,000	627.083,854	7.734.921,059	153,649	299°13'05"
3		60,000	627.088,736	7.734.929,786	153,861	299°13'05"
3+10,000	PTV3	70,000	627.093,617	7.734.938,514	154,088	299°13'05"
4		80,000	627.098,498	7.734.947,242	154,262	299°13'05"
4+10,000	PCV4	90,000	627.103,380	7.734.955,970	154,400	299°13'05"
5		100,000	627.108,261	7.734.964,697	154,411	299°13'05"
5+10,000	PCCV5	110,000	627.113,142	7.734.973,425	154,390	299°13'05"
6		120,000	627.118,024	7.734.982,153	154,216	299°13'05"
6+8,000		128,000	627.121,929	7.734.989,135	154,088	299°13'05"
6+10,000	PTV5	130,000	627.122,905	7.734.990,880	154,016	299°13'05"
6+18,948	PIV6	138,948	627.127,273	7.734.998,690	153,819	299°13'05"
7		140,000	627.127,786	7.734.999,608	153,813	299°13'05"
7+2,948	V7	142,948	627.129,225	7.735.002,181	153,786	299°13'05"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	626.624,508	7.734.457,704	143,411	29°57'04"
0+10,000	V1	10,000	626.633,173	7.734.452,712	143,373	29°57'04"
1		20,000	626.641,837	7.734.447,719	143,376	29°57'04"
1+1,472	PI1	21,472	626.643,113	7.734.446,984	143,372	29°57'04"
2		40,000	626.659,167	7.734.437,734	143,089	29°57'04"
2+3,033	PCV2	43,033	626.661,795	7.734.436,219	143,065	29°57'04"
3		60,000	626.676,496	7.734.427,748	143,101	29°57'04"
3+3,033	PTV2	63,033	626.679,124	7.734.426,234	143,105	29°57'04"
4	PIV3	80,000	626.693,825	7.734.417,763	143,111	29°57'04"
5		100,000	626.711,154	7.734.407,778	143,282	29°57'04"
6	PIV4	120,000	626.728,483	7.734.397,793	143,376	29°57'04"
7		140,000	626.745,812	7.734.387,807	143,498	29°57'04"
8	PIV5	160,000	626.763,141	7.734.377,822	143,672	29°57'04"
8+8,091	PI2	168,091	626.770,151	7.734.373,783	143,883	29°57'04"
9		180,000	626.780,470	7.734.367,837	143,852	29°57'04"
10		200,000	626.797,799	7.734.357,852	143,906	29°57'04"
10+2,612	PCV6	202,612	626.800,062	7.734.356,548	143,908	29°57'04"
11		220,000	626.815,128	7.734.347,866	143,940	29°57'04"
11+2,612	PTV6	222,612	626.817,391	7.734.346,562	143,953	29°57'04"
12	PIV7	240,000	626.832,457	7.734.337,881	143,933	29°57'04"
13		260,000	626.849,786	7.734.327,896	143,812	29°57'04"
13+6,378	PCV8	266,378	626.855,312	7.734.324,712	143,676	29°57'04"
14		280,000	626.867,115	7.734.317,911	143,486	29°57'04"
14+6,378	PTV8	286,378	626.872,641	7.734.314,726	143,389	29°57'04"
14+10,000	PCV9	290,000	626.875,779	7.734.312,918	143,280	29°57'04"
15	PCCV9	300,000	626.884,444	7.734.307,926	142,981	29°57'04"
15+8,003	PTV10	308,003	626.891,378	7.734.303,930	142,740	29°57'04"
15+11,503	V7	311,503	626.894,411	7.734.302,183	142,772	29°57'04"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	626.054,469	7.734.585,277	141,657	298°56'27"
0+10,000	V1	10,000	626.059,308	7.734.594,028	141,670	298°56'27"
1		20,000	626.064,147	7.734.602,779	141,718	298°56'27"
1+5,151	PIV2	25,151	626.066,640	7.734.607,287	141,748	298°56'27"
1+8,651	PIV3	28,651	626.068,333	7.734.610,350	141,749	298°56'27"
1+12,151	PIV4	32,151	626.070,027	7.734.613,413	141,720	298°56'27"
2		40,000	626.073,825	7.734.620,282	141,718	298°56'27"
2+0,860	V5	40,860	626.074,241	7.734.621,034	141,718	298°56'27"
3	PI-4	60,000	626.083,503	7.734.637,784	141,918	298°56'27"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0		0,000	626.878,704	7.734.277,374	142,481	302°20'18"
0+10,000	V1	10,000	626.884,053	7.734.285,823	142,517	302°20'18"
1		20,000	626.889,402	7.734.294,272	142,627	302°20'18"
1+9,362	PI2	29,362	626.894,411	7.734.302,183	142,772	302°20'18"
1+18,085	V2	38,085	626.899,077	7.734.309,553	142,827	302°20'18"
2		40,000	626.900,101	7.734.311,170	142,841	302°20'18"
2+8,085	PI-4	48,085	626.904,426	7.734.318,002	142,953	302°20'18"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	625.817,678	7.734.754,815	141,078	29°57'56"
1		20,000	625.835,005	7.734.744,825	141,542	29°57'56"
2		40,000	625.852,331	7.734.734,836	141,531	29°57'56"
3		60,000	625.869,658	7.734.724,846	141,659	29°57'56"
4		80,000	625.886,984	7.734.714,857	141,747	29°57'56"
5		100,000	625.904,311	7.734.704,867	141,796	29°57'56"
6		120,000	625.921,637	7.734.694,877	141,895	29°57'56"
7		140,000	625.938,964	7.734.684,888	142,089	29°57'56"
7+4,495	PI1	144,495	625.942,858	7.734.682,643	142,149	29°57'25"
7+8,395	V1	148,395	625.946,237	7.734.680,696	142,117	29°56'55"
8		160,000	625.956,293	7.734.674,902	142,002	29°56'55"
8+19,000		179,000	625.972,755	7.734.665,417	141,856	29°56'55"
9	PIV2	180,000	625.973,622	7.734.664,918	141,848	29°56'55"
10		200,000	625.990,952	7.734.654,933	141,729	29°56'55"
11		220,000	626.008,281	7.734.644,949	141,757	29°56'55"
11+18,902	PIV3	238,902	626.024,659	7.734.635,513	141,705	29°56'55"
12		240,000	626.025,610	7.734.634,964	141,699	29°56'55"
13	PIV4	260,000	626.042,940	7.734.624,980	141,596	29°56'55"
14		280,000	626.060,269	7.734.614,996	141,648	29°56'55"
14+9,306	PI2	289,306	626.068,333	7.734.610,350	141,749	29°56'55"
15		300,000	626.077,599	7.734.605,011	141,593	29°56'55"
15+7,957	PIV5	307,957	626.084,494	7.734.601,039	141,547	29°56'55"
16	V6	320,000	626.094,928	7.734.595,027	141,569	29°56'55"
16+17,957	PI-4	337,957	626.110,488	7.734.586,062	141,602	29°56'55"

Estaca	Descrição	Progressiva	X	Y	Z	Azimute
0	PI-0	0,000	627.059,448	7.734.877,420	153,238	29°45'54"
0+4,612	V1	4,612	627.063,451	7.734.875,131	153,059	29°45'54"
0+15,000		15,000	627.072,468	7.734.869,974	152,666	29°45'54"
1		20,000	627.076,809	7.734.867,491	152,453	29°45'54"
2	PIV2	40,000	627.094,170	7.734.857,563	151,522	29°45'54"
3		60,000	627.111,532	7.734.847,634	150,598	29°45'54"
4		80,000	627.128,893	7.734.837,705	149,715	29°45'54"
4+10,000	PCV3	90,000	627.137,573	7.734.832,741	149,295	29°45'54"
5		100,000	627.146,254	7.734.827,776	148,873	29°45'54"
5+10,000	PCCV4	110,000	627.154,935	7.734.822,812	148,572	29°45'54"
6		120,000	627.163,616	7.734.817,847	148,322	29°45'54"
6+10,000	PTV4	130,000	627.172,296	7.734.812,883	148,209	29°45'54"
7		140,000	627.180,977	7.734.807,918	148,105	29°45'54"
7+7,758	PI2	147,758	627.187,712	7.734.804,067	148,164	74°44'39"
8		160,000	627.181,642	7.734.793,435	147,943	119°43'24"
8+10,000	PCV5	170,000	627.176,684	7.734.784,751	147,968	119°43'24"
9		180,000	627.171,726	7.734.776,067	147,962	119°43'24"
9+10,000	PTV5	190,000	627.166,768	7.734.767,383	147,928	119°43'24"
10		200,000	627.161,810	7.734.758,698	147,860	119°43'24"
11		220,000	627.151,893	7.734.741,330	147,846	119°43'24"
12	PIV6	240,000	627.141,977	7.734.723,961	147,953	119°43'24"
13		260,000	627.132,061	7.734.706,592	148,044	119°43'24"
13+10,000		270,000	627.127,103	7.734.697,908	148,068	119°43'24"
14		280,000	627.122,145	7.734.689,224	148,068	119°43'24"
14+7,566	V7	287,566	627.118,393	7.734.682,654	148,010	119°43'24"
14+12,087	PI-4	292,087	627.116,152	7.734.678,727	147,980	119°43'24"