



GOVERNO MUNICIPAL DE PASSO DE TORRES / SC
SECRETARIA DE PLANEJAMENTO DE PASSO DE TORRES / SC
DEPARTAMENTO DE ENGENHARIA DE PASSO DE TORRES / SC

LOCAL: MUNICIPIO DE PASSO DE TORRES / SC
TRECHO: RODOVIA BR-101 Á RODOVIA INTERPRAIAS (CAMINHOS DO MAR)
EXTENSÃO: 8.461,07 METROS
TIPO: PAVIMENTO EM CONCRETO ASFÁLTICO

**PAVIMENTAÇÃO DE ACESSO DA RODOVIA BR-101
Á RODOVIA CAMINHOS DO MAR - ETAPA 01**
PASSO DE TORRES / SC

Fase: Projeto de Engenharia
Volume 04: Relatório de Terraplanagem

Fevereiro / 2022



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2 - APRESENTAÇÃO

O Presente volume, denominado Volume 4 - Relatório do Projeto de Terraplanagem, é anexo ao Relatório de Projeto Final de Engenharia da Rodovia em formato de Avenida conforme plano diretor Municipal, Trecho Rodovia BR-101 á Rodovia Interpraias (Caminhos do Mar) – com extensão de 8,461,07 Km , Localizada no município de Passo de Torres – SC.

É composto por nota de serviços executados, locação do eixo em coordenadas utm e relatório do volume para cada seção transversal a cada estaca com exposição dos elementos feitos das soluções adotadas.

3 - MAPA DE SITUAÇÃO

MAPA DE SITUAÇÃO

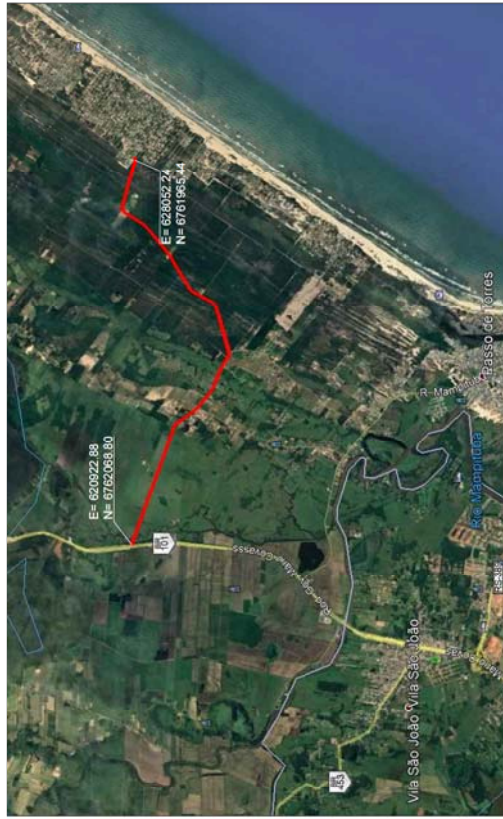
BRASIL



SANTA CATARINA



**Passo de Torres
(Bela Torres)**



TRAÇADO

LEGENDA

ORÇÃO: **GOVERNO MUNICIPAL DE PASSO DE TORRES**
 PLANEJAMENTO DE PASSO DE TORRES
 DEPARTAMENTO DE ENGENHARIA DE PASSO DE TORRES

EMPRESA: **SETE - SERVIÇOS TÉCNICOS DE ENGENHARIA**
 RUA CEL. MARCOS ROVATI, 699 - CENTRO - IPARÁ - SC
 CNPJ: 26.742.981 / 0001-25

TÍTULO: MAPA SITUAÇÃO

RUA: AVENIDA BELA TORRES

REGIO: ACESSO RODOVIA BR-101 SUL A PRAIA BELA TORRES

REFERÊNCIA: SITUATION E LOCALIZATION

LOCALIZAÇÃO: PASSO DE TORRES / SC

ESCALA: INDICADA

DATA: 03/03/2021

FECHA: APROVADO

NUMERO:

4 – RELATORIO DE TERRAPLANAGEM

4.1 – Locação do Eixo - Coordenadas

Locação do eixo para implantação da pavimentação asfáltica da Rodovia Caminhos do Mar – Passo de Torres / SC com extensão de 8.461,07metros			
Estaca	Norte	Este	Cota
0+00,000	6762095,5130000	620926,9160000	5,8940000
0+48,717 PI	6762098,3877306	620975,5480365	6,3568616
0+65,934 PC	6762098,3680042	620992,7651178	5,8094975
0+100,000	6762094,4776050	621026,5345775	4,6371263
0+147,507 PT	6762076,6396270	621070,3519597	3,8849474
0+177,296 PC	6762061,1976549	621095,8251891	3,8962399
0+200,000	6762049,9851400	621115,5641208	3,9048470
0+257,960 PT	6762026,5965405	621168,5401170	3,9268194
0+300,000	6762012,4456916	621208,1269689	3,9427565
0+400,000	6761978,7852876	621302,2915971	3,9806661
0+440,035 PI	6761965,3094383	621339,9901448	3,9958430
0+500,000	6761944,7479827	621396,3200751	4,0185756
0+600,000	6761910,4590467	621490,2576547	4,0461109
0+700,000	6761876,1701108	621584,1952344	4,0362646
0+800,000	6761841,8811748	621678,1328140	4,0170423
0+900,000	6761807,5922389	621772,0703937	3,9978201
1+000,000	6761773,3033029	621866,0079733	3,9785978
1+033,798 PI	6761761,7142070	621897,7573289	3,9721885
1+100,000	6761738,2494906	621959,6610043	3,9660563
1+200,000	6761702,8051809	622053,1687629	3,9604041
1+300,000	6761667,3608713	622146,6765215	3,9547518
1+391,881 PI	6761634,7944014	622232,5920784	3,9495585
1+400,000	6761631,8581117	622240,1618664	3,9490996
1+500,000	6761595,6939154	622333,3935719	3,9434473
1+600,000	6761559,5297190	622426,6252773	3,9650728
1+700,000	6761523,3655227	622519,8569828	4,0437834
1+800,000	6761487,2013263	622613,0886883	4,1410716
1+900,000	6761451,0371300	622706,3203937	4,2383598
2+000,000	6761414,8729337	622799,5520992	4,2655116
2+100,000	6761378,7087373	622892,7838046	4,0985223
2+200,000	6761342,5445410	622986,0155101	4,3651121
2+296,595 PC	6761307,6117521	623076,0726331	5,5806965
2+300,000	6761306,3552580	623079,2373319	5,6880385
2+400,000	6761248,9012497	623159,9841851	8,8102593
2+435,108 PT	6761220,7338919	623180,8758639	8,6867170
2+500,000	6761165,6344976	623215,1538193	7,3472309
2+599,395 PI	6761081,2383474	623267,6576174	8,9041760
2+600,000	6761080,7179309	623267,9662182	8,9288064
2+700,000	6760994,7036987	623318,9716284	11,7918490
2+701,476 PC	6760993,4337456	623319,7246954	11,7878090

Localção do eixo para implantação da pavimentação asfáltica da Rodovia Caminhos do Mar – Passo de Torres / SC com extensão de 8.461,07metros			
Estaca	Norte	Este	Cota
2+800,000	6760915,3316611	623379,4115821	9,3461182
2+864,759 PT	6760872,4845980	623427,8840610	8,4780233
2+891,546 PI	6760856,3420812	623449,2610220	8,2226817
2+900,000	6760850,9190008	623455,7458629	8,1421003
3+000,000	6760786,7676902	623532,4570703	7,5263388
3+095,423 PI	6760725,5524486	623605,6573690	8,0067831
3+100,000	6760722,5321910	623609,0961226	8,0656362
3+187,172 PI	6760665,0070274	623674,5921476	6,6164898
3+200,000	6760656,7986078	623684,4507362	6,4663013
3+286,656 PC	6760601,3508673	623751,0453406	5,9620815
3+300,000	6760593,0558405	623761,4960621	5,9267022
3+369,579 PT	6760558,2427178	623821,5406302	5,8440191
3+400,000	6760546,3024417	623849,5198814	5,8877549
3+428,754 PC	6760535,0162606	623875,9664134	5,8319694
3+444,310 PT	6760529,2303488	623890,4049426	5,7516180
3+500,000	6760509,6690124	623942,5463530	5,2477703
3+518,123 PC	6760503,3032235	623959,5145807	4,9966079
3+545,029 PT	6760493,2615159	623984,4735700	4,8634843
3+578,694 PI	6760479,9623738	624015,4004927	5,4923741
3+590,012 PI	6760475,2417650	624025,6872696	5,4517933
3+600,000	6760470,7735209	624034,6198850	5,1790339
3+648,312 PC	6760449,1600723	624077,8280492	4,5776608
3+697,507 PT	6760429,9094921	624123,0660836	5,2027480
3+700,000	6760429,0761598	624125,4156432	5,2357101
3+718,328 PC	6760422,9497170	624142,6889960	5,4780391
3+786,048 PT	6760390,7160147	624201,9281368	6,3932376
3+800,000	6760382,2081570	624212,9856458	6,7619634
3+900,000	6760321,2277082	624292,2408341	11,1087777
3+918,796 PI	6760309,7659892	624307,1374233	11,1077314
3+942,370 PC	6760295,8991717	624326,2026016	10,6244723
4+000,000	6760272,0268777	624378,2389811	8,9229752
4+074,532 PT	6760273,9147265	624451,9290077	8,5079914
4+100,000	6760281,0170565	624476,3866389	8,4956611
4+200,000	6760308,9043315	624572,4194453	8,4472461
4+300,000	6760336,7916065	624668,4522516	8,3988311
4+400,000	6760364,6788815	624764,4850579	8,3504161
4+472,683 PI	6760384,9482458	624834,2847763	8,3152266
4+500,000	6760392,0641172	624860,6584723	8,3040476
4+600,000	6760418,1135514	624957,2060097	8,8940397
4+700,000	6760444,1629856	625053,7535471	9,1441299
4+800,000	6760470,2124198	625150,3010845	8,5901232
4+880,227 PC	6760491,1111641	625227,7585173	8,1456588
4+900,000	6760497,1963589	625246,5631383	8,0490706
5+000,000	6760554,0825729	625327,5406271	7,9892035
5+037,271 PT	6760584,4756771	625349,0200107	8,0619661
5+097,688 PI	6760636,8449073	625379,1469249	8,1529467

Locação do eixo para implantação da pavimentação asfáltica da Rodovia Caminhos do Mar – Passo de Torres / SC com extensão de 8.461,07 metros

Estaca	Norte	Este	Cota
5+100,000	6760638,8077555	625380,3695484	8,1553207
5+200,000	6760723,6882728	625433,2401241	8,1797884
5+300,000	6760808,5687901	625486,1106999	8,0584272
5+372,559 PC	6760870,1573895	625524,4731511	8,3012737
5+400,000	6760893,0396016	625539,6129828	8,4989913
5+500,000	6760968,6219809	625604,8357933	8,7897627
5+600,000	6761029,7399726	625683,7743908	8,6036171
5+624,951 PT	6761042,4360189	625705,2511780	8,5546828
5+700,000	6761079,0033948	625770,7883657	8,4074983
5+768,910 PI	6761112,5799533	625830,9653174	8,3002120
5+800,000	6761128,0762166	625857,9176019	8,5520660
5+900,000	6761177,9201860	625944,6100394	9,9564572
6+000,000	6761227,7641554	626031,3024768	7,9991302
6+056,249 PI	6761255,8010430	626080,0663726	7,8383977
6+000,000	6761277,2888246	626118,1767168	7,7493066
6+137,653 PC	6761295,7820190	626150,9759151	7,6726315
6+200,000	6761327,7443862	626204,4986959	7,5475153
6+300,000	6761384,4636592	626286,8248270	8,9497274
6+349,089 PT	6761414,6719900	626325,5146408	8,6595571
6+400,000	6761446,7850900	626365,0197431	8,3343326
6+500,000	6761509,8623399	626442,6165249	7,7517045
6+571,659 PI	6761555,0626568	626498,2213450	9,1099867
6+600,000	6761573,3464692	626519,8762132	9,3206313
6+700,000	6761637,8593587	626596,2835890	7,4725366
6+800,000	6761702,3722483	626672,6909649	7,5259191
6+879,448 PC	6761753,6265606	626733,3952292	7,8019751
6+900,000	6761767,1629179	626748,8580765	7,8346927
7+000,000	6761840,4499444	626816,7096230	7,8547023
7+065,411 PT	6761894,2935359	626853,7891553	7,8750984
7+100,000	6761923,8499259	626871,7557630	8,2206307
7+160,813 PC	6761975,8150107	626903,3440690	8,8505534
7+200,000	6762009,4559737	626923,4412230	8,2975589
7+209,696 PT	6762017,8269699	626928,3338128	8,2172520
7+300,000	6762095,8776358	626973,7531698	8,3210085
7+355,617 PC	6762143,9477257	627001,7261863	8,4363439
7+400,000	6762178,2079026	627029,6546441	8,3219726
7+500,000	6762214,2053659	627120,7283969	7,2104767
7+547,779 PT	6762207,2850656	627167,7744528	6,7064512
7+600,000	6762191,1078061	627217,4263213	6,5531244
7+700,000	6762160,1292305	627312,5069600	7,0400976
7+783,382 PI	6762134,2986798	627391,7870821	8,2001880
7+800,000	6762129,5554363	627407,7137931	8,3475858
7+900,000	6762101,0126590	627503,5538154	8,9957578
8+000,000	6762072,4698818	627599,3938377	8,7269871
8+03,827 PC	6762071,3776392	627603,0613348	8,7150913
8+046,170 PT	6762059,9546645	627643,8328403	8,5834612

Locação do eixo para implantação da pavimentação asfáltica da Rodovia Caminhos do Mar – Passo de Torres / SC com extensão de 8.461,07metros			
Estaca	Norte	Este	Cota
8+100,000	6762046,2783484	627695,8964968	8,4161233
8+200,000	6762020,8718408	627792,6152095	8,1463276
8+300,000	6761995,4653333	627889,3339221	8,1600300
8+350,154 PC	6761982,7228529	627937,8426080	7,8689453
8+400,000	6761975,9739060	627987,1070681	7,7036542
8+435,285 PT	6761978,4407257	628022,2627495	7,8946172
8+460,07	6761982,2993792	628046,8737243	8,0615437

4.2 – Nota de Serviço

LADO ESQUERDO - COTA DE TERRAPLANAGEM				PASSAIO				BORDO ESQUERDO				EIXO - COTA DE PAVIMENTO ACABADO		LADO DIREITO - COTA DE TERRAPLANAGEM									
Afast. (m)	Cota (m)	Afast. (m)	Incl. (%)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Cota (m)	Incl. (%)	Estaca	Geometria Horizontal	Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Offset	
																							existente
		-5.660	-2.00	5.781	-2.00						00+060			PISTA EXISTENTE			5.500	5.500		5.500	5.445		
				PASSARELA METALICA								00+060			PISTE EXISTENTE			PASSARELA METALICA					
				PASSARELA METALICA								00+060			POINTE EXISTENTE			5.500	5.504	-2.00	3.300	5.948	4.344
-6.085	4.555	-5.660	-2.00	5.901	-2.00	-3.300	4.993	-2.00	6.014	5.888	00+060			6.014	5.888	0.126	5.500	5.504	-2.00	3.300	5.948	7.566	
-6.093	4.520	-4.800	22.95	5.382	22.95	-3.300	4.859	-2.00	5.325	4.891	00+080			5.325	4.891	0.434	5.700	4.811	-2.00	5.820	5.006	8.156	
-5.834	4.004	-4.800	22.84	4.694	22.84	-3.300	4.171	-2.00	4.637	4.215	00+100	PCV		4.637	4.215	0.422	5.700	4.123	-2.00	5.820	4.316	4.398	
-5.945	3.307	-4.800	22.84	4.071	22.84	-3.300	3.548	-2.00	4.014	3.665	00+120	PTV		4.014	3.665	0.349	5.700	3.500	-2.00	5.820	3.693	3.954	
-6.242	2.993	-4.800	3.955	23.02	3.955	-3.300	3.432	-2.00	3.898	3.868	00+140			3.898	3.868	0.030	5.700	3.384	-2.00	5.820	3.579	3.790	
-5.575	3.464	-4.800	3.980	23.26	3.980	-3.300	3.458	-2.00	3.924	3.808	00+160			3.924	3.808	0.116	5.700	3.410	-2.00	5.820	3.609	7.525	
-6.079	3.558	-5.700	3.811	24.67	3.811	-4.500	3.515	0.08	3.950	3.763	00+180			3.950	3.763	0.186	3.300	3.514	-2.00	5.700	3.836	7.042	
-6.046	3.605	-5.700	3.836	24.67	3.836	-4.500	3.540	0.08	3.975	3.758	00+200			3.975	3.758	0.217	3.300	3.539	-2.00	5.700	3.861	7.091	
-6.103	3.593	-5.700	3.862	24.67	3.862	-4.500	3.566	0.08	4.001	3.734	00+220			4.001	3.734	0.266	3.300	3.565	-2.00	5.700	3.887	7.737	
-5.830	3.801	-5.700	3.888	24.67	3.888	-4.500	3.592	0.08	4.027	3.705	00+240			4.027	3.705	0.321	3.300	3.591	-2.00	5.700	3.913	7.874	
-5.830	3.827	-5.700	3.913	24.67	3.913	-4.500	3.617	0.08	4.052	3.690	00+260			4.052	3.690	0.363	3.300	3.616	-2.00	5.700	3.938	7.874	
-5.757	3.901	-5.700	3.939	24.67	3.939	-4.500	3.643	0.08	4.078	3.644	00+280			4.078	3.644	0.434	3.300	3.642	-2.00	5.700	3.964	7.936	
-5.757	3.926	-5.700	3.964	24.67	3.964	-4.500	3.668	0.08	4.103	3.652	00+300			4.103	3.652	0.451	3.300	3.667	-2.00	5.700	3.989	7.936	
-5.709	3.984	-5.700	3.990	24.67	3.990	-4.500	3.694	0.08	4.129	3.665	00+320			4.129	3.665	0.464	3.300	3.693	-2.00	5.700	4.015	7.659	
-5.709	4.010	-5.700	4.016	24.67	4.016	-4.500	3.720	0.08	4.155	3.673	00+340			4.155	3.673	0.482	3.300	3.719	-2.00	5.700	4.041	7.659	
-6.294	3.645	-5.700	4.041	24.67	4.041	-4.500	3.745	0.08	4.180	3.667	00+360			4.180	3.667	0.514	3.300	3.744	-2.00	5.700	4.066	7.970	
-6.294	3.671	-5.700	4.067	24.67	4.067	-4.500	3.771	0.08	4.206	3.692	00+380			4.206	3.692	0.514	3.300	3.770	-2.00	5.700	4.092	7.970	
-5.832	4.005	-5.700	4.093	24.67	4.093	-4.500	3.797	0.08	4.232	3.612	00+400			4.232	3.612	0.620	3.300	3.796	-2.00	5.700	4.118	7.742	
-5.832	4.031	-5.700	4.118	24.67	4.118	-4.500	3.822	0.08	4.257	3.616	00+420			4.257	3.616	0.642	3.300	3.821	-2.00	5.700	4.143	7.742	
-6.488	3.619	-5.700	4.144	24.67	4.144	-4.500	3.848	0.08	4.283	3.684	00+440			4.283	3.684	0.599	3.300	3.847	-2.00	5.700	4.169	7.725	
-6.488	3.644	-5.700	4.170	24.67	4.170	-4.500	3.874	0.08	4.309	3.672	00+460			4.309	3.672	0.637	3.300	3.873	-2.00	5.700	4.195	7.725	
-6.518	3.650	-5.700	4.195	24.67	4.195	-4.500	3.899	0.08	4.334	3.675	00+480			4.334	3.675	0.659	3.300	3.898	-2.00	5.700	4.220	7.723	
-6.518	3.676	-5.700	4.221	24.67	4.221	-4.500	3.925	0.08	4.360	3.655	00+500			4.360	3.655	0.705	3.300	3.924	-2.00	5.700	4.246	7.723	
-6.507	3.709	-5.700	4.247	24.67	4.247	-4.500	3.951	0.08	4.386	3.728	00+520	PCV		4.386	3.728	0.657	3.300	3.950	-2.00	5.700	4.272	7.877	
-6.473	3.756	-5.700	4.272	24.67	4.272	-4.500	3.976	0.08	4.411	3.790	00+540			4.411	3.790	0.621	3.300	3.975	-2.00	5.700	4.297	7.831	
-6.325	3.876	-5.700	4.293	24.67	4.293	-4.500	3.997	0.08	4.432	3.728	00+560			4.432	3.728	0.703	3.300	3.996	-2.00	5.700	4.318	7.824	
-6.447	3.811	-5.700	4.309	24.67	4.309	-4.500	4.013	0.08	4.448	3.770	00+580			4.448	3.770	0.677	3.300	4.012	-2.00	5.700	4.334	7.862	
-6.434	3.831	-5.700	4.320	24.67	4.320	-4.500	4.024	0.08	4.459	3.636	00+600			4.459	3.636	0.823	3.300	4.023	-2.00	5.700	4.345	7.820	
-6.409	3.855	-5.700	4.327	24.67	4.327	-4.500	4.031	0.08	4.466	3.594	00+620			4.466	3.594	0.873	3.300	4.030	-2.00	5.700	4.352	7.858	
-6.490	3.803	-5.700	4.330	24.67	4.330	-4.500	4.034	0.08	4.469	3.680	00+640			4.469	3.680	0.789	3.300	4.033	-2.00	5.700	4.355	7.841	
-6.787	3.603	-5.700	4.328	24.67	4.328	-4.500	4.032	0.08	4.467	3.665	00+660	PTV		4.467	3.665	0.802	3.300	4.031	-2.00	5.700	4.353	7.757	
-6.952	3.488	-5.700	4.322	24.67	4.322	-4.500	4.026	0.08	4.461	3.698	00+680			4.461	3.698	0.763	3.300	4.025	-2.00	5.700	4.347	7.793	
-6.952	3.482	-5.700	4.316	24.67	4.316	-4.500	4.020	0.08	4.455	3.567	00+700			4.455	3.567	0.888	3.300	4.019	-2.00	5.700	4.341	7.793	
-6.413	3.834	-5.700	4.310	24.67	4.310	-4.500	4.014	0.08	4.449	3.681	00+720			4.449	3.681	0.768	3.300	4.013	-2.00	5.700	4.335	7.876	
-6.413	3.828	-5.700	4.304	24.67	4.304	-4.500	4.008	0.08	4.443	3.678	00+740			4.443	3.678	0.765	3.300	4.007	-2.00	5.700	4.329	7.876	
-6.376	3.847	-5.700	4.298	24.67	4.298	-4.500	4.002	0.08	4.437	3.740	00+760			4.437	3.740	0.697	3.300	4.001	-2.00	5.700	4.323	7.737	

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM						EIXO - COTA DE PAVIMENTO ACABADO						LADO DIREITO - COTA DE TERRAPLANAGEM						
OFFSET		PASSEIO		BORDO ESQUERDO		Estaca	Geometria Horizontal	Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO DIREITO		CICLOFAIXA		OFFSET		
Afast. (m)	Cota (m)	Afast. (m)	Incl. (%)	Afast. (m)	Incl. (%)							Afast. (m)	Cota (m)	Afast. (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)
-6.376	3.841	-5.700	4.292	24.67	0.08	00+780			4.431	3.659	0.772	3.300	3.995	-2.00	5.700	4.317	7.737	3.735
-6.323	3.870	-5.700	4.286	24.67	0.08	00+800			4.425	3.702	0.722	3.300	3.989	-2.00	5.700	4.311	7.604	3.817
-6.337	3.864	-5.700	4.279	24.67	0.08	00+820			4.418	3.657	0.762	3.300	3.982	-2.00	5.700	4.304	7.604	3.811
-6.337	3.848	-5.700	4.273	24.67	0.08	00+840			4.412	3.730	0.682	3.300	3.976	-2.00	5.700	4.298	7.689	3.748
-6.337	3.842	-5.700	4.267	24.67	0.08	00+860			4.406	3.673	0.733	3.300	3.970	-2.00	5.700	4.292	7.689	3.742
-6.250	3.895	-5.700	4.261	24.67	0.08	00+880			4.400	3.680	0.720	3.300	3.964	-2.00	5.700	4.286	7.605	3.792
-6.250	3.889	-5.700	4.255	24.67	0.08	00+900			4.394	3.689	0.705	3.300	3.958	-2.00	5.700	4.280	7.605	3.786
-6.089	3.989	-5.700	4.249	24.67	0.08	00+920			4.388	3.780	0.608	3.300	3.952	-2.00	5.700	4.274	7.601	3.783
-6.089	3.983	-5.700	4.243	24.67	0.08	00+940			4.382	3.789	0.593	3.300	3.946	-2.00	5.700	4.268	7.601	3.776
-6.152	3.936	-5.700	4.237	24.67	0.08	00+960			4.376	3.782	0.593	3.300	3.940	-2.00	5.700	4.262	7.497	3.840
-6.152	3.930	-5.700	4.231	24.67	0.08	00+980			4.370	3.821	0.549	3.300	3.934	-2.00	5.700	4.256	7.497	3.834
-6.285	3.834	-5.700	4.225	24.67	0.08	01+000			4.364	3.842	0.521	3.300	3.928	-2.00	5.700	4.250	7.508	3.820
-6.285	3.828	-5.700	4.219	24.67	0.08	01+020	PCV		4.358	3.784	0.574	3.300	3.922	-2.00	5.700	4.244	7.508	3.814
-6.234	3.857	-5.700	4.213	24.67	0.08	01+040			4.352	3.778	0.574	3.300	3.916	-2.00	5.700	4.238	8.067	3.437
-6.101	3.944	-5.700	4.211	24.67	0.08	01+060	PTV		4.350	3.782	0.569	3.300	3.914	-2.00	5.700	4.236	8.070	3.432
-5.976	4.029	-5.700	4.213	24.67	0.08	01+080			4.352	3.810	0.542	3.300	3.916	-2.00	5.700	4.238	8.087	3.422
-5.976	4.032	-5.700	4.216	24.67	0.08	01+100			4.355	3.835	0.520	3.300	3.919	-2.00	5.700	4.241	8.087	3.425
-5.958	4.047	-5.700	4.219	24.67	0.08	01+120			4.358	3.888	0.470	3.300	3.922	-2.00	5.700	4.244	7.146	4.055
-5.958	4.050	-5.700	4.222	24.67	0.08	01+140			4.361	3.883	0.470	3.300	3.925	-2.00	5.700	4.247	7.146	4.055
-5.951	4.057	-5.700	4.225	24.67	0.08	01+160			4.364	3.858	0.506	3.300	3.928	-2.00	5.700	4.250	8.138	3.400
-5.951	4.060	-5.700	4.227	24.67	0.08	01+180			4.366	3.886	0.481	3.300	3.930	-2.00	5.700	4.252	8.138	3.403
-6.174	3.914	-5.700	4.230	24.67	0.08	01+200			4.369	3.883	0.487	3.300	3.933	-2.00	5.700	4.255	7.031	4.144
-6.174	3.917	-5.700	4.233	24.67	0.08	01+220			4.372	3.898	0.474	3.300	3.936	-2.00	5.700	4.258	7.031	4.147
-5.836	4.145	-5.700	4.236	24.67	0.08	01+240			4.375	3.921	0.454	3.300	3.939	-2.00	5.700	4.261	7.138	4.078
-5.836	4.148	-5.700	4.239	24.67	0.08	01+260			4.378	3.910	0.468	3.300	3.942	-2.00	5.700	4.264	7.138	4.081
-5.847	4.144	-5.700	4.242	24.67	0.08	01+280			4.381	3.951	0.430	3.300	3.945	-2.00	5.700	4.267	7.511	3.835
-5.847	4.147	-5.700	4.245	24.67	0.08	01+300			4.384	3.932	0.451	3.300	3.948	-2.00	5.700	4.270	7.511	3.838
-5.883	4.126	-5.700	4.248	24.67	0.08	01+320			4.387	3.824	0.563	3.300	3.951	-2.00	5.700	4.273	7.338	3.957
-5.883	4.129	-5.700	4.251	24.67	0.08	01+340			4.390	3.756	0.634	3.300	3.954	-2.00	5.700	4.276	7.338	3.960
-6.054	4.018	-5.700	4.253	24.67	0.08	01+360			4.392	3.828	0.564	3.300	3.956	-2.00	5.700	4.278	7.971	3.541
-6.054	4.020	-5.700	4.256	24.67	0.08	01+380			4.395	3.789	0.606	3.300	3.959	-2.00	5.700	4.281	7.971	3.544
-6.081	4.005	-5.700	4.259	24.67	0.08	01+400			4.398	3.777	0.621	3.300	3.962	-2.00	5.700	4.284	7.959	3.554
-6.081	4.008	-5.700	4.262	24.67	0.08	01+420			4.401	3.813	0.588	3.300	3.965	-2.00	5.700	4.287	7.959	3.557
-6.311	3.858	-5.700	4.265	24.67	0.08	01+440			4.404	3.812	0.592	3.300	3.968	-2.00	5.700	4.290	8.023	3.517
-6.311	3.861	-5.700	4.268	24.67	0.08	01+460			4.407	3.830	0.577	3.300	3.971	-2.00	5.700	4.293	8.023	3.520
-5.854	4.168	-5.700	4.271	24.67	0.08	01+480			4.410	3.967	0.443	3.300	3.974	-2.00	5.700	4.296	7.545	3.842
-5.854	4.171	-5.700	4.274	24.67	0.08	01+500	PCV		4.413	3.858	0.555	3.300	3.977	-2.00	5.700	4.299	7.545	3.844
-6.269	3.898	-5.700	4.277	24.67	0.08	01+520			4.416	3.831	0.585	3.300	3.980	-2.00	5.700	4.302	7.492	3.883
-6.319	3.870	-5.700	4.282	24.67	0.08	01+540			4.421	3.862	0.559	3.300	3.985	-2.00	5.700	4.307	7.755	3.713
-6.032	4.068	-5.700	4.290	24.67	0.08	01+560			4.429	3.873	0.556	3.300	3.993	-2.00	5.700	4.315	7.918	3.612
-5.757	4.262	-5.700	4.300	24.67	0.08	01+580			4.439	3.886	0.553	3.300	4.003	-2.00	5.700	4.325	7.404	3.965
-5.757	4.269	-5.700	4.312	24.67	0.08	01+600			4.451	3.884	0.567	3.300	4.015	-2.00	5.700	4.337	7.451	3.946

LADO ESQUERDO - COTA DE TERRAPLANAGEM										EIXO - COTA DE PAVIMENTO ACABADO										LADO DIREITO - COTA DE TERRAPLANAGEM									
OFFSET		PASSEIO				BORDO ESQUERDO				Estaca	Geometria Horizontal	Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO DIREITO		CICLOFAIXA		OFFSET									
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)							Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)					
-5.774	4.278	-5.700	4.327	24.67	-4.500	4.031	0.08	01+620			4.466	3.845	0.621	3.300	4.030	-2.00	5.700	4.352	8.058	3.556									
-5.818	4.266	-5.700	4.345	24.67	-4.500	4.069	0.08	01+640			4.484	3.894	0.590	3.300	4.048	-2.00	5.700	4.370	7.473	3.964									
-5.825	4.281	-5.700	4.365	24.67	-4.500	4.089	0.08	01+660			4.504	3.932	0.571	3.300	4.068	-2.00	5.700	4.390	7.513	3.957									
-5.882	4.265	-5.700	4.387	24.67	-4.500	4.091	0.08	01+680		PTV	4.526	3.938	0.588	3.300	4.090	-2.00	5.700	4.412	7.510	3.981									
-5.882	4.290	-5.700	4.411	24.67	-4.500	4.115	0.08	01+700			4.550	3.934	0.616	3.300	4.114	-2.00	5.700	4.436	7.510	4.005									
-6.195	4.105	-5.700	4.436	24.67	-4.500	4.140	0.08	01+720			4.575	3.883	0.691	3.300	4.139	-2.00	5.700	4.461	7.803	3.835									
-6.195	4.130	-5.700	4.460	24.67	-4.500	4.164	0.08	01+740			4.599	3.940	0.659	3.300	4.163	-2.00	5.700	4.485	7.803	3.859									
-5.902	4.350	-5.700	4.484	24.67	-4.500	4.188	0.08	01+760			4.623	3.920	0.703	3.300	4.187	-2.00	5.700	4.509	7.657	3.981									
-5.902	4.374	-5.700	4.509	24.67	-4.500	4.213	0.08	01+780			4.648	3.855	0.792	3.300	4.212	-2.00	5.700	4.534	7.657	4.005									
-6.141	4.240	-5.700	4.533	24.67	-4.500	4.237	0.08	01+800			4.672	3.831	0.841	3.300	4.236	-2.00	5.700	4.558	8.404	3.532									
-6.141	4.264	-5.700	4.558	24.67	-4.500	4.262	0.08	01+820			4.697	3.872	0.825	3.300	4.261	-2.00	5.700	4.583	8.404	3.556									
-6.266	4.205	-5.700	4.582	24.67	-4.500	4.286	0.08	01+840			4.721	4.006	0.715	3.300	4.285	-2.00	5.700	4.607	7.630	4.097									
-6.266	4.229	-5.700	4.606	24.67	-4.500	4.310	0.08	01+860			4.745	4.025	0.720	3.300	4.309	-2.00	5.700	4.631	7.630	4.121									
-6.007	4.426	-5.700	4.631	24.67	-4.500	4.335	0.08	01+880			4.770	4.050	0.720	3.300	4.334	-2.00	5.700	4.656	8.504	3.562									
-6.007	4.450	-5.700	4.655	24.67	-4.500	4.359	0.08	01+900		PCV	4.794	4.050	0.744	3.300	4.358	-2.00	5.700	4.680	8.504	3.587									
-6.356	4.242	-5.700	4.680	24.67	-4.500	4.384	0.08	01+920			4.819	4.052	0.766	3.300	4.383	-2.00	5.700	4.705	8.558	3.575									
-6.389	4.237	-5.700	4.697	24.67	-4.500	4.401	0.08	01+940			4.836	4.065	0.771	3.300	4.400	-2.00	5.700	4.722	8.419	3.685									
-6.376	4.230	-5.700	4.681	24.67	-4.500	4.385	0.08	01+960			4.820	4.081	0.739	3.300	4.384	-2.00	5.700	4.706	7.822	4.067									
-6.324	4.215	-5.700	4.631	24.67	-4.500	4.335	0.08	01+980			4.770	4.059	0.711	3.300	4.334	-2.00	5.700	4.656	7.645	4.135									
-6.592	3.952	-5.700	4.546	24.67	-4.500	4.250	0.08	02+000			4.685	4.067	0.618	3.300	4.249	-2.00	5.700	4.571	7.704	4.011									
-6.213	4.085	-5.700	4.427	24.67	-4.500	4.131	0.08	02+020		PTV	4.566	4.130	0.436	3.300	4.130	-2.00	5.700	4.452	7.015	4.351									
-6.080	4.036	-5.700	4.289	24.67	-4.500	3.993	0.08	02+040			4.428	4.185	0.243	3.300	3.992	-2.00	5.700	4.314	6.961	4.352									
-6.080	3.898	-5.700	4.151	24.67	-4.500	3.855	0.08	02+060			4.290	4.234	0.056	3.300	3.854	-2.00	5.700	4.176	6.961	4.214									
-5.716	4.003	-5.700	4.014	24.67	-4.500	3.718	0.08	02+080		PCV	4.153	4.191	-0.039	3.300	3.717	-2.00	5.700	4.039	7.061	4.175									
-5.809	3.987	-5.700	3.878	24.67	-4.500	3.582	0.08	02+100			4.017	4.145	-0.128	3.300	3.581	-2.00	5.700	3.903	7.072	4.051									
-5.852	3.966	-5.700	3.814	24.67	-4.500	3.518	0.08	02+120			3.953	4.145	-0.191	3.300	3.517	-2.00	5.700	3.839	7.148	4.063									
-5.799	3.790	-5.700	3.856	24.67	-4.500	3.560	0.08	02+140		PTV	3.995	4.161	-0.166	3.300	3.559	-2.00	5.700	3.881	7.198	4.154									
-5.895	4.171	-5.700	3.976	24.67	-4.500	3.680	0.08	02+160			4.115	4.230	-0.115	3.300	3.679	-2.00	5.700	4.001	7.277	4.354									
-5.895	4.296	-5.700	4.101	24.67	-4.500	3.805	0.08	02+180			4.240	4.364	-0.124	3.300	3.804	-2.00	5.700	4.126	7.277	4.479									
-5.812	4.338	-5.700	4.226	24.67	-4.500	3.930	0.08	02+200			4.365	4.385	-0.020	3.300	3.929	-2.00	5.700	4.251	7.178	4.505									
-5.845	4.379	-5.700	4.276	24.67	-4.500	4.055	0.08	02+220			4.490	4.388	0.102	3.300	4.054	-2.00	5.700	4.376	7.178	4.630									
-6.001	4.445	-5.700	4.645	24.67	-4.500	4.349	0.08	02+240		PCV	4.615	4.410	0.205	3.300	4.179	-2.00	5.700	4.501	7.053	4.630									
-6.476	4.482	-5.700	5.000	24.67	-4.500	4.704	0.08	02+260			4.784	4.651	0.134	3.300	4.348	-2.00	5.700	4.670	6.700	4.670									
-6.207	5.211	-5.700	5.549	24.67	-4.500	5.253	0.08	02+280			5.139	4.869	0.270	3.300	4.703	-2.00	5.700	5.025	7.029	5.130									
-5.739	6.327	-5.700	6.288	24.67	-4.500	5.992	0.08	02+300		PTV	5.688	5.384	0.304	3.300	5.252	-2.00	5.700	5.574	6.937	5.587									
-6.470	7.853	-5.700	7.083	24.67	-4.500	6.787	0.08	02+320			6.427	6.115	0.312	3.300	5.991	-2.00	5.700	6.313	7.343	5.994									
-9.125	11.273	-5.700	7.847	24.67	-4.500	7.551	0.08	02+340		PCV	7.222	6.954	0.268	3.300	6.786	-2.00	5.700	7.108	7.144	7.329									
-10.797	13.485	-5.700	8.388	24.67	-4.500	8.092	0.08	02+360			7.986	7.930	0.057	3.300	7.550	-2.00	5.700	7.872	8.895	9.843									
-8.067	11.038	-5.700	8.671	24.67	-4.500	8.375	0.08	02+380			8.527	9.006	-0.480	3.300	8.091	-2.00	5.700	8.413	8.570	10.059									
-6.341	9.339	-5.700	8.698	24.67	-4.500	8.402	0.08	02+400			8.810	9.366	-0.556	3.300	8.374	-2.00	5.700	8.696	7.504	9.276									
-7.884	7.012	-5.700	8.468	24.67	-4.500	8.172	0.08	02+420		PTV	8.837	8.821	0.016	3.300	8.401	-2.00	5.700	8.723	6.999	8.798									
								02+440			8.607	8.097	0.510	3.300	8.171	-2.00	5.700	8.493	7.340	8.175									

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM										EIXO - COTA DE PAVIMENTO ACABADO										LADO DIREITO - COTA DE TERRAPLANAGEM									
OFFSET		PASSEIO				BORDO ESQUERDO				Estaca		Geometria Horizontal		Geometria Vertical		Cota Projeto		Cota Terreno		Cota Vermelha		BORDO DIREITO				CICLOFAIXA		OFFSET	
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Cota (m)	Incl. (%)									Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	
-7.884	6.542	-5.700	7.998	24.67	-4.500	7.702	0.08	02+460				8.137	7.559	0.577	3.300	7.701	-2.00	5.700	8.023	7.340	7.705	3.300	7.701	-2.00	5.700	8.023	7.340	7.705	
-7.951	5.708	-5.700	7.498	24.67	-4.500	7.202	0.08	02+480				7.637	7.107	0.530	3.300	7.201	-2.00	5.700	7.523	7.360	7.192	3.300	7.201	-2.00	5.700	7.523	7.360	7.192	
-7.769	5.740	-5.700	7.208	24.67	-4.500	6.912	0.08	02+500				7.347	7.071	0.276	3.300	6.911	-2.00	5.700	7.233	7.353	6.907	3.300	6.911	-2.00	5.700	7.233	7.353	6.907	
-6.992	6.288	-5.700	7.150	24.67	-4.500	6.854	0.08	02+520				7.258	7.062	0.197	3.300	6.822	-2.00	5.700	7.144	7.493	6.725	3.300	6.822	-2.00	5.700	7.144	7.493	6.725	
-6.579	6.858	-5.700	7.444	24.67	-4.500	7.148	0.08	02+540				7.289	7.324	-0.035	3.300	6.853	-2.00	5.700	7.175	7.639	6.658	3.300	6.853	-2.00	5.700	7.175	7.639	6.658	
-5.967	7.825	-5.700	8.003	24.67	-4.500	7.707	0.08	02+560				7.583	7.610	-0.028	3.300	7.147	-2.00	5.700	7.469	8.242	6.550	3.300	7.147	-2.00	5.700	7.469	8.242	6.550	
-5.867	8.971	-5.700	8.790	24.67	-4.500	8.494	0.08	02+580				8.142	7.946	0.197	3.300	7.706	-2.00	5.700	8.028	7.054	7.902	3.300	7.706	-2.00	5.700	8.028	7.054	7.902	
-7.951	12.670	-5.700	10.418	24.67	-4.500	10.122	0.08	02+600				8.929	8.597	0.331	3.300	8.493	-2.00	5.700	8.815	7.016	8.714	3.300	8.493	-2.00	5.700	8.815	7.016	8.714	
-8.161	13.592	-5.700	11.131	24.67	-4.500	10.835	0.08	02+620				9.743	9.581	0.162	3.300	9.307	-2.00	5.700	9.629	7.016	9.528	3.300	9.307	-2.00	5.700	9.629	7.016	9.528	
-7.999	13.843	-5.700	11.544	24.67	-4.500	11.248	0.08	02+640				11.270	11.786	-0.130	3.300	10.121	-2.00	5.700	10.443	7.347	10.866	3.300	10.121	-2.00	5.700	10.443	7.347	10.866	
-7.798	13.751	-5.700	11.653	24.67	-4.500	11.357	0.08	02+660				11.683	12.407	-0.724	3.300	11.247	-2.00	5.700	11.569	7.940	12.585	3.300	11.247	-2.00	5.700	11.569	7.940	12.585	
-7.354	13.111	-5.700	11.457	24.67	-4.500	11.161	0.08	02+700				11.792	12.662	-0.870	3.300	11.356	-2.00	5.700	11.678	8.224	12.978	3.300	11.356	-2.00	5.700	11.678	8.224	12.978	
-6.496	11.757	-5.700	10.961	24.67	-4.500	10.665	0.08	02+720				11.596	12.362	-0.766	3.300	11.160	-2.00	5.700	11.482	7.994	12.552	3.300	11.160	-2.00	5.700	11.482	7.994	12.552	
-5.722	9.746	-5.700	9.761	24.67	-4.500	9.465	0.08	02+740				11.100	11.578	-0.478	3.300	10.664	-2.00	5.700	10.986	7.691	11.754	3.300	10.664	-2.00	5.700	10.986	7.691	11.754	
-6.449	9.561	-5.700	8.812	24.67	-4.500	8.516	0.08	02+760				10.500	10.773	-0.273	3.300	10.064	-2.00	5.700	10.386	7.162	10.624	3.300	10.064	-2.00	5.700	10.386	7.162	10.624	
-6.771	9.646	-5.700	8.575	24.67	-4.500	8.279	0.08	02+780				9.900	10.108	-0.208	3.300	9.464	-2.00	5.700	9.786	7.236	10.098	3.300	9.464	-2.00	5.700	9.786	7.236	10.098	
-5.855	8.539	-5.700	8.384	24.67	-4.500	8.088	0.08	02+800				9.346	9.609	-0.263	3.300	8.910	-2.00	5.700	9.232	7.333	9.641	3.300	8.910	-2.00	5.700	9.232	7.333	9.641	
-6.386	7.737	-5.700	8.003	24.67	-4.500	7.707	0.08	02+820				8.951	9.129	-0.178	3.300	8.515	-2.00	5.700	8.837	7.335	9.248	3.300	8.515	-2.00	5.700	8.837	7.335	9.248	
-5.848	7.529	-5.700	7.628	24.67	-4.500	7.332	0.08	02+840				8.714	8.857	-0.143	3.300	8.278	-2.00	5.700	8.600	7.190	8.866	3.300	8.278	-2.00	5.700	8.600	7.190	8.866	
-5.793	7.584	-5.700	7.491	24.67	-4.500	7.195	0.08	02+860				8.523	8.438	0.085	3.300	8.087	-2.00	5.700	8.409	6.966	8.451	3.300	8.087	-2.00	5.700	8.409	6.966	8.451	
-6.018	7.729	-5.700	7.411	24.67	-4.500	7.115	0.08	02+880				8.333	7.806	0.527	3.300	7.897	-2.00	5.700	8.219	7.065	8.085	3.300	7.897	-2.00	5.700	8.219	7.065	8.085	
-7.548	6.155	-5.700	7.387	24.67	-4.500	7.091	0.08	02+900				8.142	7.620	0.522	3.300	7.706	-2.00	5.700	8.028	7.894	7.894	3.300	7.706	-2.00	5.700	8.028	7.894	7.894	
-7.548	6.177	-5.700	7.409	24.67	-4.500	7.113	0.08	02+920				7.951	7.415	0.537	3.300	7.515	-2.00	5.700	7.837	7.144	7.651	3.300	7.515	-2.00	5.700	7.837	7.144	7.651	
-6.445	6.939	-5.700	7.435	24.67	-4.500	7.139	0.08	02+940				7.767	7.394	0.374	3.300	7.331	-2.00	5.700	7.653	6.991	7.568	3.300	7.331	-2.00	5.700	7.653	6.991	7.568	
-5.833	7.639	-5.700	7.506	24.67	-4.500	7.210	0.08	02+960				7.630	7.394	0.236	3.300	7.194	-2.00	5.700	7.516	6.905	7.488	3.300	7.194	-2.00	5.700	7.516	6.905	7.488	
-5.736	7.766	-5.700	7.730	24.67	-4.500	7.434	0.08	02+980				7.550	7.520	0.029	3.300	7.114	-2.00	5.700	7.436	6.972	7.483	3.300	7.114	-2.00	5.700	7.436	6.972	7.483	
-7.548	6.155	-5.700	7.387	24.67	-4.500	7.091	0.08	03+000				7.526	7.567	-0.040	3.300	7.090	-2.00	5.700	7.412	6.996	7.484	3.300	7.090	-2.00	5.700	7.412	6.996	7.484	
-7.548	6.177	-5.700	7.409	24.67	-4.500	7.113	0.08	03+020				7.548	7.594	-0.045	3.300	7.112	-2.00	5.700	7.434	6.996	7.506	3.300	7.112	-2.00	5.700	7.434	6.996	7.506	
-6.445	6.939	-5.700	7.435	24.67	-4.500	7.139	0.08	03+040				7.574	7.636	-0.061	3.300	7.138	-2.00	5.700	7.460	7.030	7.567	3.300	7.138	-2.00	5.700	7.460	7.030	7.567	
-5.833	7.639	-5.700	7.506	24.67	-4.500	7.210	0.08	03+060				7.645	7.611	0.084	3.300	7.209	-2.00	5.700	7.531	6.952	7.559	3.300	7.209	-2.00	5.700	7.531	6.952	7.559	
-5.736	7.766	-5.700	7.730	24.67	-4.500	7.434	0.08	03+080				7.869	7.793	0.076	3.300	7.433	-2.00	5.700	7.755	6.928	7.759	3.300	7.433	-2.00	5.700	7.755	6.928	7.759	
-5.736	8.143	-5.700	8.107	24.67	-4.500	7.811	0.08	03+100				8.246	8.147	0.099	3.300	7.810	-2.00	5.700	8.132	6.928	8.137	3.300	7.810	-2.00	5.700	8.132	6.928	8.137	
-5.074	8.673	-4.800	8.399	23.54	-3.300	7.877	-2.00	03+120				8.343	8.108	0.234	5.700	7.829	-2.00	5.820	8.026	7.253	8.404	5.700	7.829	-2.00	5.820	8.026	7.253	8.404	
-5.074	8.172	-4.800	7.898	23.54	-3.300	7.376	-2.00	03+140				7.842	7.687	0.155	5.700	7.328	-2.00	5.820	7.526	7.233	7.904	5.700	7.328	-2.00	5.820	7.526	7.233	7.904	
-5.145	7.093	-4.800	7.323	23.54	-3.300	6.800	-2.00	03+160				7.266	7.164	0.102	5.700	6.752	-2.00	5.820	6.950	7.277	7.224	5.700	6.752	-2.00	5.820	6.950	7.277	7.224	
-5.505	6.367	-4.800	6.836	23.54	-3.300	6.314	-2.00	03+180				6.780	6.559	0.221	5.700	6.266	-2.00	5.820	6.464	6.888	6.827	5.700	6.266	-2.00	5.820	6.464	6.888	6.827	
-5.038	6.370	-4.800	6.529	23.54	-3.300	6.007	-2.00	03+200				6.473	6.679	-0.206	5.700	5.959	-2.00	5.820	6.156	7.307	6.587	5.700	5.959	-2.00	5.820	6.156	7.307	6.587	
-5.038	6.219	-4.800	6.378	23.54	-3.300	5.856	-2.00	03+220				6.322	6.469	-0.147	5.700	5.808	-2.00	5.820	6.005	7.307	6.437	5.700	5.808	-2.00	5.820	6.005	7.307	6.437	
-5.089	6.539	-4.800	6.249	23.54	-3.300	5.727	-2.00	03+240				6.193	6.587	-0.394	5.700	5.679	-2.00	5.820	5.877	7.463	6.465	5.700	5.679	-2.00	5.820	5.877	7.463	6.465	
-5.163	6.493	-4.800	6.130	23.54	-3.300	5.607	-2.00	03+260				6.073	6.328	-0.254	5.700	5.559	-2.00	5.820	5.757	7.324	6.204	5.700	5.559	-2.00	5.820	5.757	7.324	6.204	
-5.080	6.321	-4.800	6.041	23.54	-3.300	5.519	-2.00	03+280				5.985	6.138	-0.153	5.700	5.471	-2.00	5.820	5.671	7.418	6.211	5.700	5.471	-2.00	5.820	5.671	7.418	6.211	

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM										EIXO - COTA DE PAVIMENTO ACABADO										LADO DIREITO - COTA DE TERRAPLANAGEM									
OFFSET		PASSEIO		BORDO ESQUERDO		Estaca		Geometria Horizontal		Geometria Vertical		Cota Projeto		Cota Terreno		Cota Vermelha		BORDO DIREITO		CICLOFAIXA		OFFSET							
Afast. (m)	Cota (m)	Afast. (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)												Afast. (m)	Cota (m)	Afast. (m)	Incl. (%)	Afast. (m)	Cota (m)						
-4.885	6.068	-4.800	23.70	-3.300	5.461	-2.00	03+300				5.927	6.087	-0.160	5.700	5.413	-2.00	5.820	5.413	-2.00	5.820	5.413	-2.00	5.700	5.413					
-4.817	5.923	-4.800	23.75	-3.300	5.412	-2.00	03+320				5.878	6.000	-0.122	5.700	5.364	-2.00	5.820	5.364	-2.00	5.820	5.364	-2.00	5.700	5.364					
-4.869	5.851	-4.800	23.75	-3.300	5.374	-2.00	03+340				5.840	5.894	-0.054	5.700	5.326	-2.00	5.820	5.326	-2.00	5.820	5.326	-2.00	5.700	5.326					
-4.985	5.768	-4.800	23.65	-3.300	5.369	-2.00	03+360				5.835	5.827	0.008	5.700	5.321	-2.00	5.820	5.321	-2.00	5.820	5.321	-2.00	5.700	5.321					
-4.906	5.874	-4.800	23.54	-3.300	5.422	-2.00	03+400				5.888	5.958	-0.070	5.700	5.347	-2.00	5.820	5.347	-2.00	5.820	5.347	-2.00	5.700	5.347					
-4.947	5.820	-4.800	23.55	-3.300	5.396	-2.00	03+420				5.862	5.911	-0.049	5.700	5.348	-2.00	5.820	5.348	-2.00	5.820	5.348	-2.00	5.700	5.348					
-4.980	5.713	-4.800	23.54	-3.300	5.311	-2.00	03+440				5.777	5.832	-0.056	5.700	5.263	-2.00	5.820	5.263	-2.00	5.820	5.263	-2.00	5.700	5.263					
-4.923	5.459	-4.800	23.54	-3.300	5.019	-2.00	03+480				5.485	5.512	-0.028	5.700	4.971	-2.00	5.820	4.971	-2.00	5.820	4.971	-2.00	5.700	4.971					
-5.718	5.097	-5.700	24.67	-4.500	4.813	0.08	03+500				5.248	5.169	0.078	5.700	4.812	-2.00	5.700	4.812	-2.00	5.700	4.812	-2.00	5.700	4.812					
-5.853	4.730	-5.700	24.67	-4.500	4.536	0.08	03+520				4.971	4.898	0.072	5.700	4.535	-2.00	5.700	4.535	-2.00	5.700	4.535	-2.00	5.700	4.535					
-5.935	4.533	-5.700	24.67	-4.500	4.393	0.08	03+540				4.828	4.689	0.139	5.700	4.392	-2.00	5.700	4.392	-2.00	5.700	4.392	-2.00	5.700	4.392					
-6.413	4.511	-5.700	24.67	-4.500	4.691	0.08	03+560				5.126	4.718	0.408	5.700	4.690	-2.00	5.700	4.690	-2.00	5.700	4.690	-2.00	5.700	4.690					
-6.413	4.878	-5.700	24.67	-4.500	5.058	0.08	03+580				5.493	5.382	0.111	5.700	5.057	-2.00	5.700	5.057	-2.00	5.700	5.057	-2.00	5.700	5.057					
-6.367	4.595	-5.700	24.67	-4.500	4.744	0.08	03+600				5.179	4.928	0.251	5.700	4.743	-2.00	5.700	4.743	-2.00	5.700	4.743	-2.00	5.700	4.743					
-6.550	4.004	-5.700	24.67	-4.500	4.275	0.08	03+620				4.710	4.507	0.203	5.700	4.274	-2.00	5.700	4.274	-2.00	5.700	4.274	-2.00	5.700	4.274					
-6.182	4.089	-5.700	24.67	-4.500	4.114	0.08	03+640				4.549	4.429	0.120	5.700	4.113	-2.00	5.700	4.113	-2.00	5.700	4.113	-2.00	5.700	4.113					
-6.149	4.269	-5.700	24.67	-4.500	4.272	0.08	03+660				4.707	4.497	0.210	5.700	4.271	-2.00	5.700	4.271	-2.00	5.700	4.271	-2.00	5.700	4.271					
-6.149	4.533	-5.700	24.67	-4.500	4.536	0.08	03+680				4.971	4.711	0.260	5.700	4.535	-2.00	5.700	4.535	-2.00	5.700	4.535	-2.00	5.700	4.535					
-6.149	4.797	-5.700	24.67	-4.500	4.801	0.08	03+700				5.236	4.906	0.330	5.700	4.800	-2.00	5.700	4.800	-2.00	5.700	4.800	-2.00	5.700	4.800					
-5.842	5.266	-5.700	24.67	-4.500	5.065	0.08	03+720				5.500	5.341	0.159	5.700	5.064	-2.00	5.700	5.064	-2.00	5.700	5.064	-2.00	5.700	5.064					
-5.833	5.537	-5.700	24.67	-4.500	5.330	0.08	03+740				5.765	5.568	0.197	5.700	5.329	-2.00	5.700	5.329	-2.00	5.700	5.329	-2.00	5.700	5.329					
-5.852	5.788	-5.700	24.67	-4.500	5.594	0.08	03+760				6.029	5.768	0.261	5.700	5.593	-2.00	5.700	5.593	-2.00	5.700	5.593	-2.00	5.700	5.593					
-5.744	6.125	-5.700	24.67	-4.500	5.859	0.08	03+780				6.294	6.273	0.020	5.700	5.858	-2.00	5.700	5.858	-2.00	5.700	5.858	-2.00	5.700	5.858					
-6.316	6.249	-5.700	24.67	-4.500	6.364	0.08	03+800				6.799	6.729	0.070	5.700	6.363	-2.00	5.700	6.363	-2.00	5.700	6.363	-2.00	5.700	6.363					
-5.795	7.731	-5.700	24.67	-4.500	7.340	0.08	03+820				7.775	7.351	0.424	5.700	7.339	-2.00	5.700	7.339	-2.00	5.700	7.339	-2.00	5.700	7.339					
-6.099	8.754	-5.700	24.67	-4.500	8.724	0.08	03+840				9.159	8.391	0.769	5.700	8.723	-2.00	5.700	8.723	-2.00	5.700	8.723	-2.00	5.700	8.723					
-5.989	10.105	-5.700	24.67	-4.500	10.001	0.08	03+860				10.436	10.049	0.387	5.700	10.000	-2.00	5.700	10.000	-2.00	5.700	10.000	-2.00	5.700	10.000					
-5.966	11.398	-5.700	24.67	-4.500	10.836	0.08	03+880				11.271	11.267	0.003	5.700	10.835	-2.00	5.700	10.835	-2.00	5.700	10.835	-2.00	5.700	10.835					
-5.928	11.368	-5.700	24.67	-4.500	11.224	0.08	03+900				11.659	11.253	0.406	5.700	11.223	-2.00	5.700	11.223	-2.00	5.700	11.223	-2.00	5.700	11.223					
-6.423	10.979	-5.700	24.67	-4.500	11.165	0.08	03+920				11.600	11.177	0.423	5.700	11.164	-2.00	5.700	11.164	-2.00	5.700	11.164	-2.00	5.700	11.164					
-6.177	10.638	-5.700	24.67	-4.500	10.660	0.08	03+940				11.095	10.752	0.342	5.700	10.659	-2.00	5.700	10.659	-2.00	5.700	10.659	-2.00	5.700	10.659					
-5.804	10.257	-5.700	24.67	-4.500	9.857	0.08	03+960				10.292	10.270	0.022	5.700	9.856	-2.00	5.700	9.856	-2.00	5.700	9.856	-2.00	5.700	9.856					
-6.611	10.313	-5.700	24.67	-4.500	9.106	0.08	03+980				9.541	9.985	-0.444	5.700	9.105	-2.00	5.700	9.105	-2.00	5.700	9.105	-2.00	5.700	9.105					
-7.080	10.234	-5.700	24.67	-4.500	8.558	0.08	04+000				8.993	9.742	-0.749	5.700	8.557	-2.00	5.700	8.557	-2.00	5.700	8.557	-2.00	5.700	8.557					
-7.034	9.849	-5.700	24.67	-4.500	8.219	0.08	04+020				8.654	8.881	-0.227	5.700	8.218	-2.00	5.700	8.218	-2.00	5.700	8.218	-2.00	5.700	8.218					
-5.789	8.476	-5.700	24.67	-4.500	8.090	0.08	04+040				8.525	8.467	0.059	5.700	8.089	-2.00	5.700	8.089	-2.00	5.700	8.089	-2.00	5.700	8.089					
-6.154	8.073	-5.700	24.67	-4.500	8.080	0.08	04+060				8.515	8.090	0.425	5.700	8.079	-2.00	5.700	8.079	-2.00	5.700	8.079	-2.00	5.700	8.079					
-6.688	7.708	-5.700	24.67	-4.500	8.070	0.08	04+080				8.505	7.923	0.582	5.700	8.069	-2.00	5.700	8.069	-2.00	5.700	8.069	-2.00	5.700	8.069					
-6.688	7.698	-5.700	24.67	-4.500	8.061	0.08	04+100				8.496	7.813	0.682	5.700	8.060	-2.00	5.700	8.060	-2.00	5.700	8.060	-2.00	5.700	8.060					
-6.570	7.767	-5.700	24.67	-4.500	8.051	0.08	04+120				8.486	7.812	0.674	5.700	8.050	-2.00	5.700	8.050	-2.00	5.700	8.050	-2.00	5.700	8.050					

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM				EIXO - COTA DE PAVIMENTO ACABADO				LADO DIREITO - COTA DE TERRAPLANAGEM										
OFFSET		PASSEIO		BORDO ESQUERDO		Estaca	Geometria Horizontal	Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	BORDO DIREITO		CICLOFAIXA		OFFSET		
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)							Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)
-6.570	7.758	-5.700	8.337	24.67	4.500	8.041	0.08	0.08	8.476	7.707	0.769	3.300	8.040	-2.00	5.700	8.362	8.082	7.550
-6.646	7.697	-5.700	8.328	24.67	4.500	8.032	0.08	0.08	8.467	7.823	0.644	3.300	8.031	-2.00	5.700	8.353	7.612	7.854
-6.646	7.687	-5.700	8.318	24.67	4.500	8.022	0.08	0.08	8.457	7.833	0.623	3.300	8.021	-2.00	5.700	8.343	7.612	7.844
-6.720	7.628	-5.700	8.308	24.67	4.500	8.012	0.08	0.08	8.447	7.765	0.682	3.300	8.011	-2.00	5.700	8.333	7.365	7.999
-6.720	7.619	-5.700	8.299	24.67	4.500	8.003	0.08	0.08	8.438	7.743	0.695	3.300	8.002	-2.00	5.700	8.324	7.365	7.999
-6.318	7.877	-5.700	8.289	24.67	4.500	7.993	0.08	0.08	8.428	7.768	0.660	3.300	7.992	-2.00	5.700	8.314	7.630	7.803
-6.318	7.867	-5.700	8.279	24.67	4.500	7.983	0.08	0.08	8.418	7.861	0.557	3.300	7.982	-2.00	5.700	8.304	7.630	7.794
-6.204	7.934	-5.700	8.270	24.67	4.500	7.974	0.08	0.08	8.409	7.949	0.460	3.300	7.973	-2.00	5.700	8.295	7.405	7.934
-6.204	7.924	-5.700	8.260	24.67	4.500	7.964	0.08	0.08	8.399	8.070	0.329	3.300	7.963	-2.00	5.700	8.285	7.405	7.924
-6.083	7.995	-5.700	8.250	24.67	4.500	7.954	0.08	0.08	8.389	8.018	0.371	3.300	7.953	-2.00	5.700	8.275	7.012	8.177
-6.083	7.985	-5.700	8.240	24.67	4.500	7.944	0.08	0.08	8.379	8.036	0.343	3.300	7.943	-2.00	5.700	8.265	7.012	8.167
-5.735	8.208	-5.700	8.231	24.67	4.500	7.935	0.08	0.08	8.370	8.070	0.299	3.300	7.934	-2.00	5.700	8.256	7.248	8.000
-5.735	8.198	-5.700	8.221	24.67	4.500	7.925	0.08	0.08	8.360	8.098	0.262	3.300	7.924	-2.00	5.700	8.246	7.248	7.990
-5.852	8.364	-5.700	8.211	24.67	4.500	7.915	0.08	0.08	8.350	8.200	0.150	3.300	7.914	-2.00	5.700	8.236	7.060	8.106
-5.852	8.354	-5.700	8.202	24.67	4.500	7.906	0.08	0.08	8.341	8.317	0.024	3.300	7.905	-2.00	5.700	8.227	7.060	8.096
-5.871	8.363	-5.700	8.192	24.67	4.500	7.896	0.08	0.08	8.331	8.374	-0.043	3.300	7.895	-2.00	5.700	8.217	7.159	8.452
-5.871	8.353	-5.700	8.182	24.67	4.500	7.886	0.08	0.08	8.321	8.173	0.149	3.300	7.885	-2.00	5.700	8.207	7.159	8.443
-6.094	7.910	-5.700	8.173	24.67	4.500	7.877	0.08	0.08	8.312	8.024	0.288	3.300	7.876	-2.00	5.700	8.198	7.046	8.076
-6.062	7.924	-5.700	8.165	24.67	4.500	7.869	0.08	0.08	8.304	8.013	0.291	3.300	7.868	-2.00	5.700	8.190	6.998	8.101
-5.802	8.294	-5.700	8.193	24.67	4.500	7.897	0.08	0.08	8.332	8.194	0.138	3.300	7.896	-2.00	5.700	8.218	6.984	8.277
-6.229	8.796	-5.700	8.267	24.67	4.500	7.971	0.08	0.08	8.406	8.556	-0.150	3.300	7.970	-2.00	5.700	8.292	7.146	8.514
-6.572	9.259	-5.700	8.388	24.67	4.500	8.092	0.08	0.08	8.527	8.807	-0.281	3.300	8.091	-2.00	5.700	8.413	7.289	8.777
-6.488	9.343	-5.700	8.555	24.67	4.500	8.259	0.08	0.08	8.694	9.049	-0.355	3.300	8.258	-2.00	5.700	8.580	7.312	8.969
-6.203	9.258	-5.700	8.755	24.67	4.500	8.459	0.08	0.08	8.894	9.156	-0.262	3.300	8.458	-2.00	5.700	8.780	7.335	9.191
-5.862	9.118	-5.700	8.956	24.67	4.500	8.660	0.08	0.08	9.095	9.092	0.003	3.300	8.659	-2.00	5.700	8.981	6.986	9.042
-5.838	9.014	-5.700	9.106	24.67	4.500	8.810	0.08	0.08	9.245	9.016	0.229	3.300	8.809	-2.00	5.700	9.131	7.241	8.880
-5.983	8.970	-5.700	9.159	24.67	4.500	8.863	0.08	0.08	9.298	8.810	0.488	3.300	8.862	-2.00	5.700	9.184	7.539	8.734
-5.965	8.829	-5.700	9.114	24.67	4.500	8.818	0.08	0.08	9.253	8.910	0.344	3.300	8.817	-2.00	5.700	9.139	7.466	8.738
-5.965	8.865	-5.700	9.005	24.67	4.500	8.709	0.08	0.08	9.144	8.866	0.278	3.300	8.708	-2.00	5.700	9.030	7.466	8.629
-5.744	8.865	-5.700	8.894	24.67	4.500	8.598	0.08	0.08	9.033	8.768	0.266	3.300	8.597	-2.00	5.700	8.919	7.031	8.808
-5.744	8.755	-5.700	8.784	24.67	4.500	8.488	0.08	0.08	8.923	8.758	0.165	3.300	8.487	-2.00	5.700	8.809	7.031	8.697
-6.143	9.115	-5.700	8.673	24.67	4.500	8.377	0.08	0.08	8.812	8.742	0.070	3.300	8.376	-2.00	5.700	8.698	6.996	8.769
-6.143	9.005	-5.700	8.562	24.67	4.500	8.266	0.08	0.08	8.701	8.596	0.105	3.300	8.265	-2.00	5.700	8.587	6.996	8.658
-5.823	8.574	-5.700	8.451	24.67	4.500	8.155	0.08	0.08	8.590	8.442	0.148	3.300	8.154	-2.00	5.700	8.476	7.050	8.352
-5.823	8.464	-5.700	8.340	24.67	4.500	8.044	0.08	0.08	8.479	8.319	0.161	3.300	8.043	-2.00	5.700	8.365	7.050	8.241
-6.295	7.833	-5.700	8.230	24.67	4.500	7.934	0.08	0.08	8.369	8.146	0.223	3.300	7.933	-2.00	5.700	8.255	7.101	8.097
-6.295	7.722	-5.700	8.119	24.67	4.500	7.823	0.08	0.08	8.258	8.120	0.138	3.300	7.822	-2.00	5.700	8.144	7.101	7.986
-6.079	8.391	-5.700	8.012	24.67	4.500	7.716	0.08	0.08	8.151	8.112	0.038	3.300	7.715	-2.00	5.700	8.037	6.952	8.064
-6.088	8.318	-5.700	7.930	24.67	4.500	7.634	0.08	0.08	8.069	7.907	0.161	3.300	7.633	-2.00	5.700	7.955	6.936	7.907
-5.788	7.966	-5.700	7.878	24.67	4.500	7.582	0.08	0.08	8.017	7.172	0.845	3.300	7.581	-2.00	5.700	7.903	7.379	7.559
-6.224	7.505	-5.700	7.855	24.67	4.500	7.559	0.08	0.08	7.994	7.428	0.566	3.300	7.558	-2.00	5.700	7.880	7.116	7.712
-6.464	7.352	-5.700	7.861	24.67	4.500	7.565	0.08	0.08	8.000	7.495	0.505	3.300	7.564	-2.00	5.700	7.886	6.937	7.837

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM										EIXO - COTA DE PAVIMENTO ACABADO										LADO DIREITO - COTA DE TERRAPLANAGEM									
OFFSET		PASSEIO		BORDO ESQUERDO		Estaca		Geometria Horizontal		Geometria Vertical		Cota Projeto		Cota Terreno		Cota Vermelha		BORDO DIREITO		CICLOFAIXA		OFFSET							
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)	Geometria Horizontal	Geometria Vertical	Cota Projeto	Cota Terreno	Cota Vermelha	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)						
-6.323	7.481	-5.700	7.897	24.67	-4.500	7.601	0.08	04+980	PTV	8.036	7.687	0.349	3.300	7.600	-2.00	5.700	7.922	3.300	7.600	5.700	7.922	6.905	7.903						
-5.813	7.885	-5.700	7.961	24.67	-4.500	7.665	0.08	05+000	PCV	8.100	7.950	0.149	3.300	7.664	-2.00	5.700	7.986	3.300	7.664	5.700	7.986	6.948	8.010						
-6.029	7.813	-5.700	8.032	24.67	-4.500	7.736	0.08	05+020		8.171	8.090	0.081	3.300	7.735	-2.00	5.700	8.057	3.300	7.735	5.700	8.057	6.908	8.042						
-6.027	7.881	-5.700	8.099	24.67	-4.500	7.803	0.08	05+040		8.238	8.098	0.140	3.300	7.802	-2.00	5.700	8.124	3.300	7.802	5.700	8.124	7.102	7.965						
-6.079	7.905	-5.700	8.158	24.67	-4.500	7.862	0.08	05+060		8.297	7.905	0.392	3.300	7.861	-2.00	5.700	8.183	3.300	7.861	5.700	8.183	7.202	7.958						
-6.049	7.977	-5.700	8.209	24.67	-4.500	7.913	0.08	05+080		8.348	8.024	0.324	3.300	7.912	-2.00	5.700	8.234	3.300	7.912	5.700	8.234	7.252	7.976						
-6.093	7.991	-5.700	8.253	24.67	-4.500	7.957	0.08	05+100		8.392	8.005	0.387	3.300	7.956	-2.00	5.700	8.278	3.300	7.956	5.700	8.278	7.325	7.971						
-6.247	7.924	-5.700	8.289	24.67	-4.500	7.993	0.08	05+120		8.428	8.106	0.322	3.300	7.992	-2.00	5.700	8.314	3.300	7.992	5.700	8.314	7.203	8.088						
-6.308	7.912	-5.700	8.318	24.67	-4.500	8.022	0.08	05+140		8.457	8.155	0.302	3.300	8.021	-2.00	5.700	8.343	3.300	8.021	5.700	8.343	7.119	8.172						
-6.200	7.991	-5.700	8.338	24.67	-4.500	8.042	0.08	05+160		8.477	8.207	0.271	3.300	8.041	-2.00	5.700	8.363	3.300	8.041	5.700	8.363	7.037	8.248						
-6.102	8.083	-5.700	8.351	24.67	-4.500	8.055	0.08	05+180		8.490	8.261	0.230	3.300	8.054	-2.00	5.700	8.376	3.300	8.054	5.700	8.376	7.088	8.227						
-6.026	8.139	-5.700	8.357	24.67	-4.500	8.061	0.08	05+200		8.496	8.320	0.175	3.300	8.060	-2.00	5.700	8.382	3.300	8.060	5.700	8.382	7.152	8.190						
-5.983	8.166	-5.700	8.354	24.67	-4.500	8.058	0.08	05+220	PTV	8.493	8.335	0.158	3.300	8.057	-2.00	5.700	8.379	3.300	8.057	5.700	8.379	7.109	8.216						
-5.894	8.217	-5.700	8.347	24.67	-4.500	8.051	0.08	05+240		8.486	8.351	0.136	3.300	8.050	-2.00	5.700	8.372	3.300	8.050	5.700	8.372	7.034	8.259						
-5.894	8.210	-5.700	8.340	24.67	-4.500	8.044	0.08	05+260		8.479	8.249	0.230	3.300	8.043	-2.00	5.700	8.365	3.300	8.043	5.700	8.365	7.034	8.252						
-6.138	8.041	-5.700	8.333	24.67	-4.500	8.037	0.08	05+280		8.472	8.192	0.280	3.300	8.036	-2.00	5.700	8.358	3.300	8.036	5.700	8.358	6.980	8.414						
-6.138	8.034	-5.700	8.326	24.67	-4.500	8.030	0.08	05+300	PCV	8.465	8.151	0.314	3.300	8.029	-2.00	5.700	8.351	3.300	8.029	5.700	8.351	6.980	8.407						
-6.163	8.016	-5.700	8.325	24.67	-4.500	8.029	0.08	05+320		8.464	8.205	0.259	3.300	8.028	-2.00	5.700	8.350	3.300	8.028	5.700	8.350	7.031	8.239						
-6.094	8.085	-5.700	8.348	24.67	-4.500	8.052	0.08	05+340		8.487	8.261	0.226	3.300	8.051	-2.00	5.700	8.373	3.300	8.051	5.700	8.373	7.153	8.180						
-5.989	8.202	-5.700	8.395	24.67	-4.500	8.099	0.08	05+360	PTV	8.534	8.343	0.191	3.300	8.098	-2.00	5.700	8.420	3.300	8.098	5.700	8.420	7.119	8.250						
-5.856	8.362	-5.700	8.466	24.67	-4.500	8.170	0.08	05+380		8.605	8.511	0.094	3.300	8.169	-2.00	5.700	8.491	3.300	8.169	5.700	8.491	7.021	8.386						
-5.781	8.491	-5.700	8.545	24.67	-4.500	8.249	0.08	05+400	PCV	8.684	8.608	0.076	3.300	8.248	-2.00	5.700	8.643	3.300	8.248	5.700	8.643	6.943	8.517						
-5.719	8.609	-5.700	8.622	24.67	-4.500	8.326	0.08	05+420		8.761	8.576	0.185	3.300	8.325	-2.00	5.700	8.647	3.300	8.325	5.700	8.647	7.113	8.481						
-5.755	8.730	-5.700	8.675	24.67	-4.500	8.379	0.08	05+440		8.814	8.631	0.283	3.300	8.378	-2.00	5.700	8.700	3.300	8.378	5.700	8.700	7.342	8.381						
-5.708	8.701	-5.700	8.699	24.67	-4.500	8.403	0.08	05+460	PTV	8.838	8.590	0.248	3.300	8.402	-2.00	5.700	8.724	3.300	8.402	5.700	8.724	7.377	8.382						
-5.876	8.544	-5.700	8.661	24.67	-4.500	8.365	0.08	05+500		8.800	8.370	0.430	3.300	8.364	-2.00	5.700	8.686	3.300	8.364	5.700	8.686	7.317	8.384						
-5.818	8.543	-5.700	8.622	24.67	-4.500	8.326	0.08	05+520		8.761	8.515	0.246	3.300	8.325	-2.00	5.700	8.647	3.300	8.325	5.700	8.647	7.025	8.539						
-6.380	8.129	-5.700	8.582	24.67	-4.500	8.286	0.08	05+540		8.721	8.298	0.424	3.300	8.285	-2.00	5.700	8.607	3.300	8.285	5.700	8.607	7.272	8.272						
-6.298	8.145	-5.700	8.543	24.67	-4.500	8.247	0.08	05+560		8.682	8.204	0.479	3.300	8.246	-2.00	5.700	8.568	3.300	8.246	5.700	8.568	7.272	8.296						
-6.190	8.177	-5.700	8.504	24.67	-4.500	8.208	0.08	05+580		8.643	8.186	0.457	3.300	8.207	-2.00	5.700	8.529	3.300	8.207	5.700	8.529	7.081	8.384						
-5.962	8.290	-5.700	8.465	24.67	-4.500	8.169	0.08	05+600		8.604	8.235	0.369	3.300	8.168	-2.00	5.700	8.490	3.300	8.168	5.700	8.490	7.090	8.339						
-5.870	8.595	-5.700	8.425	24.67	-4.500	8.129	0.08	05+620		8.564	8.359	0.205	3.300	8.128	-2.00	5.700	8.450	3.300	8.128	5.700	8.450	6.991	8.366						
-6.006	8.693	-5.700	8.386	24.67	-4.500	8.090	0.08	05+640		8.525	8.507	0.018	3.300	8.089	-2.00	5.700	8.411	3.300	8.089	5.700	8.411	6.905	8.393						
-6.006	8.653	-5.700	8.347	24.67	-4.500	8.051	0.08	05+660		8.486	8.419	0.067	3.300	8.050	-2.00	5.700	8.372	3.300	8.050	5.700	8.372	6.905	8.353						
-5.788	8.249	-5.700	8.308	24.67	-4.500	8.012	0.08	05+680		8.447	8.272	0.175	3.300	8.011	-2.00	5.700	8.333	3.300	8.011	5.700	8.333	6.966	8.265						
-5.788	8.210	-5.700	8.268	24.67	-4.500	7.972	0.08	05+700		8.407	8.179	0.228	3.300	7.971	-2.00	5.700	8.293	3.300	7.971	5.700	8.293	6.966	8.226						
-5.771	8.182	-5.700	8.229	24.67	-4.500	7.933	0.08	05+720		8.368	8.068	0.300	3.300	7.932	-2.00	5.700	8.254	3.300	7.932	5.700	8.254	7.039	8.138						
-5.771	8.143	-5.700	8.190	24.67	-4.500	7.894	0.08	05+740	PCV	8.329	8.017	0.312	3.300	7.893	-2.00	5.700	8.215	3.300	7.893	5.700	8.215	7.039	8.099						
-5.945	7.989	-5.700	8.153	24.67	-4.500	7.857	0.08	05+760		8.292	8.026	0.266	3.300	7.856	-2.00	5.700	8.178	3.300	7.856	5.700	8.178	6.966	8.110						
-6.068	7.966	-5.700	8.211	24.67	-4.500	7.915	0.08	05+780		8.350	8.036	0.314	3.300	7.914	-2.00	5.700	8.236	3.300	7.914	5.700	8.236	7.141	8.052						
-6.663	7.771	-5.700	8.413	24.67	-4.500	8.117	0.08	05+800		8.552	8.198	0.354	3.300	8.116	-2.00	5.700	8.438	3.300	8.116	5.700	8.438	6.984	8.498						

Memorial Descritivo

LADO ESQUERDO - COTA DE TERRAPLANAGEM										EIXO - COTA DE PAVIMENTO ACABADO										LADO DIREITO - COTA DE TERRAPLANAGEM					
OFFSET		PASSEIO		BORDO ESQUERDO		Estaca		Geometria Horizontal		Geometria Vertical		Cota Projeto		Cota Terreno		Cota Vermelha		BORDO DIREITO		CICLOFAIXA		OFFSET			
Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Incl. (%)											Afast. (m)	Cota (m)	Incl. (%)	Afast. (m)	Cota (m)	Afast. (m)	Cota (m)	
-6.180	7.774	-5.700	8.094	24.67	-4.500	7.798	0.08	06+660			8.233	7.993	0.240	3.300	7.797	-2.00	5.700	8.119	-2.00	5.700	7.421	7.421	7.747		
-5.914	7.548	-5.700	7.691	24.67	-4.500	7.395	0.08	06+680	PCV		7.830	7.821	0.009	3.300	7.394	-2.00	5.700	7.716	-2.00	5.700	7.082	7.082	7.570		
-5.714	7.324	-5.700	7.334	24.67	-4.500	7.038	0.08	06+700			7.473	7.230	0.243	3.300	7.037	-2.00	5.700	7.359	-2.00	5.700	7.064	7.225	7.225		
-5.784	7.241	-5.700	7.158	24.67	-4.500	6.862	0.08	06+720	PTV		7.297	7.099	0.198	3.300	6.861	-2.00	5.700	7.183	-2.00	5.700	6.940	7.132	7.132		
-5.784	7.252	-5.700	7.169	24.67	-4.500	6.873	0.08	06+740			7.308	7.039	0.268	3.300	6.872	-2.00	5.700	7.194	-2.00	5.700	6.940	7.143	7.143		
-5.947	7.077	-5.700	7.242	24.67	-4.500	6.946	0.08	06+760			7.381	7.054	0.327	3.300	6.945	-2.00	5.700	7.267	-2.00	5.700	6.909	7.237	7.237		
-5.947	7.149	-5.700	7.314	24.67	-4.500	7.018	0.08	06+780			7.453	7.083	0.370	3.300	7.017	-2.00	5.700	7.339	-2.00	5.700	6.909	7.309	7.309		
-5.886	7.263	-5.700	7.387	24.67	-4.500	7.091	0.08	06+800			7.526	7.163	0.363	3.300	7.090	-2.00	5.700	7.412	-2.00	5.700	6.926	7.370	7.370		
-5.738	7.570	-5.700	7.532	24.67	-4.500	7.236	0.08	06+840			7.671	7.464	0.208	3.300	7.235	-2.00	5.700	7.557	-2.00	5.700	7.045	7.436	7.436		
-5.738	7.643	-5.700	7.605	24.67	-4.500	7.309	0.08	06+860	PCV		7.744	7.646	0.098	3.300	7.308	-2.00	5.700	7.630	-2.00	5.700	7.045	7.509	7.509		
-5.806	7.594	-5.700	7.664	24.67	-4.500	7.368	0.08	06+880			7.803	7.715	0.088	3.300	7.367	-2.00	5.700	7.689	-2.00	5.700	6.937	7.702	7.702		
-6.126	7.412	-5.700	7.696	24.67	-4.500	7.400	0.08	06+920	PTV		7.835	7.726	0.109	3.300	7.399	-2.00	5.700	7.721	-2.00	5.700	6.908	7.691	7.691		
-6.289	7.310	-5.700	7.703	24.67	-4.500	7.407	0.08	06+920			7.842	7.691	0.150	3.300	7.406	-2.00	5.700	7.728	-2.00	5.700	7.192	7.996	7.996		
-6.356	7.268	-5.700	7.706	24.67	-4.500	7.410	0.08	06+940			7.845	7.717	0.128	3.300	7.409	-2.00	5.700	7.731	-2.00	5.700	7.205	8.012	8.012		
-6.514	7.167	-5.700	7.709	24.67	-4.500	7.413	0.08	06+960			7.848	7.715	0.133	3.300	7.412	-2.00	5.700	7.734	-2.00	5.700	7.251	8.061	8.061		
-6.194	7.383	-5.700	7.726	24.67	-4.500	7.416	0.08	06+980			7.851	7.782	0.069	3.300	7.415	-2.00	5.700	7.737	-2.00	5.700	7.419	8.232	8.232		
-5.715	7.731	-5.700	7.716	24.67	-4.500	7.420	0.08	07+000			7.855	8.034	-0.179	3.300	7.419	-2.00	5.700	7.741	-2.00	5.700	7.599	8.416	8.416		
-5.801	7.820	-5.700	7.719	24.67	-4.500	7.423	0.08	07+020			7.858	8.231	-0.373	3.300	7.422	-2.00	5.700	7.744	-2.00	5.700	7.490	8.310	8.310		
-5.797	7.819	-5.700	7.722	24.67	-4.500	7.426	0.08	07+040	PCV		7.861	8.119	-0.258	3.300	7.425	-2.00	5.700	7.747	-2.00	5.700	7.261	8.084	8.084		
-5.726	7.752	-5.700	7.726	24.67	-4.500	7.430	0.08	07+060			7.865	7.836	0.029	3.300	7.429	-2.00	5.700	7.751	-2.00	5.700	7.032	7.859	7.859		
-5.760	7.782	-5.700	7.823	24.67	-4.500	7.527	0.08	07+080			7.962	7.926	0.036	3.300	7.526	-2.00	5.700	7.848	-2.00	5.700	7.060	7.717	7.717		
-6.032	7.847	-5.700	8.082	24.67	-4.500	7.786	0.08	07+100	PTV		8.221	8.034	0.187	3.300	7.785	-2.00	5.700	8.107	-2.00	5.700	7.285	7.826	7.826		
-6.416	7.999	-5.700	8.476	24.67	-4.500	8.180	0.08	07+120	PCV		8.615	8.291	0.324	3.300	8.179	-2.00	5.700	8.501	-2.00	5.700	7.017	8.399	8.399		
-6.690	8.084	-5.700	8.744	24.67	-4.500	8.448	0.08	07+140			8.883	8.519	0.365	3.300	8.447	-2.00	5.700	8.769	-2.00	5.700	6.990	8.836	8.836		
-6.962	7.877	-5.700	8.719	24.67	-4.500	8.423	0.08	07+160	PTV		8.858	8.403	0.455	3.300	8.422	-2.00	5.700	8.744	-2.00	5.700	7.256	8.483	8.483		
-6.921	7.619	-5.700	8.433	24.67	-4.500	8.137	0.08	07+180	PCV		8.572	8.104	0.468	3.300	8.136	-2.00	5.700	8.458	-2.00	5.700	7.229	8.214	8.214		
-6.476	7.641	-5.700	8.159	24.67	-4.500	7.863	0.08	07+200			8.298	8.008	0.289	3.300	7.862	-2.00	5.700	8.184	-2.00	5.700	8.184				
-6.172	7.717	-5.700	8.031	24.67	-4.500	7.735	0.08	07+220	PTV		8.170	8.016	0.155	3.300	7.734	-2.00	5.700	8.056	-2.00	5.700	6.916	8.048	8.048		
-6.167	7.733	-5.700	8.044	24.67	-4.500	7.748	0.08	07+240			8.183	7.988	0.195	3.300	7.747	-2.00	5.700	8.069	-2.00	5.700	7.047	8.192	8.192		
-6.167	7.779	-5.700	8.090	24.67	-4.500	7.794	0.08	07+260			8.229	7.875	0.354	3.300	7.793	-2.00	5.700	8.115	-2.00	5.700	7.047	8.238	8.238		
-5.763	8.199	-5.700	8.136	24.67	-4.500	7.840	0.08	07+280			8.275	8.207	0.068	3.300	7.839	-2.00	5.700	8.161	-2.00	5.700	7.001	8.070	8.070		
-5.763	8.245	-5.700	8.182	24.67	-4.500	7.886	0.08	07+300			8.321	8.374	-0.053	3.300	7.885	-2.00	5.700	8.207	-2.00	5.700	7.001	8.116	8.116		
-6.023	8.551	-5.700	8.228	24.67	-4.500	7.932	0.08	07+320			8.367	8.570	-0.163	3.300	7.931	-2.00	5.700	8.253	-2.00	5.700	7.230	8.559	8.559		
-6.023	8.597	-5.700	8.274	24.67	-4.500	7.978	0.08	07+340	PCV		8.413	8.501	-0.088	3.300	7.977	-2.00	5.700	8.299	-2.00	5.700	7.230	8.605	8.605		
-5.877	8.475	-5.700	8.298	24.67	-4.500	8.002	0.08	07+360			8.437	8.468	-0.031	3.300	8.001	-2.00	5.700	8.323	-2.00	5.700	7.123	8.522	8.522		
-5.948	8.516	-5.700	8.268	24.67	-4.500	7.972	0.08	07+380			8.407	8.511	-0.104	3.300	7.971	-2.00	5.700	8.293	-2.00	5.700	7.385	8.754	8.754		
-6.221	8.704	-5.700	8.183	24.67	-4.500	7.887	0.08	07+400			8.322	8.321	-0.360	3.300	7.886	-2.00	5.700	8.208	-2.00	5.700	7.210	8.494	8.494		
-6.300	8.643	-5.700	8.043	24.67	-4.500	7.747	0.08	07+420			8.182	8.364	-0.181	3.300	7.746	-2.00	5.700	8.068	-2.00	5.700	6.918	8.032	8.032		
-5.863	7.764	-5.700	7.849	24.67	-4.500	7.553	0.08	07+440	PTV		7.988	8.138	-0.151	3.300	7.552	-2.00	5.700	7.874	-2.00	5.700	7.216	7.639	7.639		
-6.158	7.794	-5.700	7.336	24.67	-4.500	7.305	0.08	07+460			7.740	7.684	0.056	3.300	7.304	-2.00	5.700	7.626	-2.00	5.700	7.066	7.491	7.491		
						7.040	0.08	07+480			7.475	7.612	-0.137	3.300	7.039	-2.00	5.700	7.361	-2.00	5.700	6.930	7.317	7.317		

4.3 – Relatório de Corte x Aterro (Distribuição dos materiais).

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
0+0.000	0.00	0.94	0.00	0.01	0.00	0.00	0.00	0.00
1+0.000	10.00	0.71	16.56	1.01	10.19	16.56	10.19	6.37
2+0.000	10.00	0.00	7.14	56.12	571.28	23.71	581.47	-557.76
3+0.000	10.00	1.65	16.49	5.59	617.70	40.20	1199.17	-1158.97
4+0.000	10.00	0.15	18.00	2.31	78.85	58.20	1278.02	-1219.82
5+0.000	10.00	0.85	9.79	1.79	41.14	68.00	1319.16	-1251.16
6+0.000	10.00	1.79	25.82	1.49	33.53	93.82	1352.69	-1258.87
7+0.000	10.00	2.84	45.48	2.45	40.47	139.30	1393.16	-1253.85
8+0.000	10.00	2.54	53.52	2.19	46.81	192.83	1439.97	-1247.14
9+0.000	10.00	3.51	60.48	1.03	32.17	253.31	1472.14	-1218.83
10+0.000	10.00	2.84	63.77	2.06	30.93	317.08	1503.07	-1185.99
11+0.000	10.00	1.09	39.40	2.91	50.19	356.47	1553.25	-1196.78
12+0.000	10.00	0.86	19.50	1.44	44.11	375.98	1597.37	-1221.39
13+0.000	10.00	0.86	17.11	1.55	30.36	393.09	1627.73	-1234.64
14+0.000	10.00	0.47	13.28	1.32	28.68	406.37	1656.41	-1250.04
15+0.000	10.00	0.30	7.74	2.07	33.81	414.11	1690.21	-1276.11
16+0.000	10.00	0.67	9.69	1.57	36.35	423.80	1726.57	-1302.77
17+0.000	10.00	0.32	9.83	3.38	49.52	433.63	1776.09	-1342.46
18+0.000	10.00	0.00	3.21	3.79	71.76	436.84	1847.85	-1411.01
19+0.000	10.00	0.30	3.06	3.38	71.77	439.90	1919.62	-1479.72
20+0.000	10.00	0.21	5.09	3.85	72.37	444.98	1991.99	-1547.00
21+0.000	10.00	0.23	4.41	4.12	79.76	449.40	2071.75	-1622.35
22+0.000	10.00	0.07	2.99	4.49	86.13	452.39	2157.88	-1705.49
23+0.000	10.00	0.00	0.68	4.34	88.32	453.06	2246.20	-1793.14
24+0.000	10.00	0.00	0.01	4.87	92.13	453.07	2338.33	-1885.25
25+0.000	10.00	0.03	0.28	5.31	101.83	453.36	2440.16	-1986.80
26+0.000	10.00	0.00	0.28	6.14	114.51	453.64	2554.67	-2101.02
27+0.000	10.00	0.00	0.00	5.96	120.99	453.64	2675.65	-2222.01
28+0.000	10.00	0.00	0.00	6.12	120.82	453.64	2796.48	-2342.83
29+0.000	10.00	0.00	0.00	6.36	124.79	453.64	2921.27	-2467.62
30+0.000	10.00	0.00	0.00	7.35	137.10	453.64	3058.36	-2604.72
31+0.000	10.00	0.00	0.00	7.62	149.76	453.64	3208.12	-2754.48
32+0.000	10.00	0.00	0.00	7.81	154.28	453.64	3362.40	-2908.76
33+0.000	10.00	-	-	8,59	163,93	453,64	3.526,33	3.072,69
34+0.000	10.00	-	-	8,95	175,40	453,64	3.701,73	3.248,09
35+0.000	10.00	-	0,01	9,04	179,92	453,65	3.881,65	3.428,00
36+0.000	10.00	-	0,01	7,56	165,99	453,67	4.047,64	3.593,97
37+0.000	10.00	0,02	0,16	6,47	140,27	453,82	4.187,91	3.734,09
38+0.000	10.00	-	0,16	6,38	128,53	453,98	4.316,45	3.862,47
39+0.000	10.00	-	0,08	5,95	123,29	454,06	4.439,74	3.985,68
40+0.000	10.00	-	0,08	4,98	109,21	454,14	4.548,95	4.094,81
41+0.000	10.00	0,02	0,16	5,66	106,36	454,30	4.655,31	4.201,01
42+0.000	10.00	-	0,16	4,95	106,13	454,46	4.761,44	4.306,98
43+0.000	10.00	-	-	5,04	99,90	454,46	4.861,34	4.406,88
44+0.000	10.00	-	0,01	4,87	99,08	454,47	4.960,42	4.505,95
45+0.000	10.00	-	-	4,91	97,81	454,48	5.058,23	4.603,75
46+0.000	10.00	0,01	0,14	3,82	87,31	454,61	5.145,53	4.690,92
47+0.000	10.00	0,01	0,26	3,20	70,20	454,87	5.215,73	4.760,86
48+0.000	10.00	0,01	0,25	3,34	65,40	455,13	5.281,13	4.826,00
49+0.000	10.00	0,04	0,48	2,82	61,62	455,61	5.342,75	4.887,14

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
50+0.000	10,00	0,02	0,54	3,03	58,52	456,14	5.401,28	4.945,13
51+0.000	10,00	0,13	1,45	3,44	64,72	457,59	5.465,99	5.008,40
52+0.000	10,00	-	1,26	5,13	85,69	458,85	5.551,69	5.092,83
53+0.000	10,00	0,02	0,18	4,61	97,35	459,04	5.649,04	5.190,00
54+0.000	10,00	0,05	0,69	3,95	85,54	459,73	5.734,58	5.274,85
55+0.000	10,00	0,17	2,22	1,73	56,71	461,95	5.791,29	5.329,34
56+0.000	10,00	0,45	6,24	1,77	34,96	468,19	5.826,26	5.358,07
57+0.000	10,00	0,05	5,06	3,89	56,61	473,24	5.882,87	5.409,62
58+0.000	10,00	0,23	2,86	3,84	77,34	476,10	5.960,20	5.484,11
59+0.000	10,00	0,68	9,14	1,79	56,33	485,23	6.016,54	5.531,30
60+0.000	10,00	0,71	13,95	1,77	35,59	499,19	6.052,13	5.552,94
61+0.000	10,00	0,98	16,93	1,06	28,33	516,11	6.080,46	5.564,35
62+0.000	10,00	0,84	18,19	0,93	19,89	534,31	6.100,35	5.566,04
63+0.000	10,00	0,82	16,58	1,24	21,66	550,89	6.122,01	5.571,12
64+0.000	10,00	0,43	12,51	1,03	22,67	563,40	6.144,68	5.581,28
65+0.000	10,00	0,78	12,13	1,16	21,86	575,53	6.166,54	5.591,00
66+0.000	10,00	0,35	11,27	1,84	30,02	586,80	6.196,56	5.609,75
67+0.000	10,00	0,45	7,98	2,67	45,12	594,78	6.241,68	5.646,89
68+0.000	10,00	0,06	5,09	4,55	72,21	599,88	6.313,89	5.714,01
69+0.000	10,00	0,21	2,68	3,62	81,72	602,56	6.395,60	5.793,04
70+0.000	10,00	0,07	2,76	5,02	86,37	605,32	6.481,97	5.876,65
71+0.000	10,00	0,02	0,90	4,09	91,08	606,22	6.573,04	5.966,82
72+0.000	10,00	-	0,24	5,65	97,45	606,46	6.670,49	6.064,03
73+0.000	10,00	-	-	4,51	101,67	606,46	6.772,16	6.165,70
74+0.000	10,00	0,49	4,87	1,96	64,75	611,33	6.836,91	6.225,58
75+0.000	10,00	0,16	6,44	3,40	53,58	617,76	6.890,48	6.272,72
76+0.000	10,00	-	1,61	3,29	66,91	619,37	6.957,39	6.338,02
77+0.000	10,00	0,07	0,72	3,66	69,55	620,10	7.026,94	6.406,84
78+0.000	10,00	0,26	3,32	4,14	77,98	623,42	7.104,92	6.481,50
79+0.000	10,00	0,37	6,32	2,37	65,03	629,73	7.169,95	6.540,22
80+0.000	10,00	0,25	6,20	2,83	51,98	635,94	7.221,93	6.585,99
81+0.000	10,00	0,32	5,77	3,82	66,52	641,70	7.288,45	6.646,74
82+0.000	10,00	0,33	6,49	3,09	69,08	648,19	7.357,52	6.709,33
83+0.000	10,00	0,19	5,18	2,91	59,93	653,37	7.417,45	6.764,08
84+0.000	10,00	0,11	3,07	3,75	66,58	656,45	7.484,04	6.827,59
85+0.000	10,00	0,13	2,43	3,55	73,08	658,88	7.557,12	6.898,24
86+0.000	10,00	-	1,30	6,12	96,74	660,18	7.653,86	6.993,69
87+0.000	10,00	-	-	6,83	129,52	660,18	7.783,39	7.123,20
88+0.000	10,00	0,12	1,23	5,29	121,25	661,42	7.904,63	7.243,22
89+0.000	10,00	-	1,23	7,05	123,42	662,65	8.028,06	7.365,41
90+0.000	10,00	-	-	8,56	156,13	662,65	8.184,19	7.521,54
91+0.000	10,00	-	-	9,52	180,79	662,65	8.364,98	7.702,33
92+0.000	10,00	-	-	5,63	151,47	662,65	8.516,45	7.853,80
93+0.000	10,00	-	0,02	5,87	114,98	662,67	8.631,43	7.968,76
94+0.000	10,00	0,06	0,62	6,13	120,01	663,30	8.751,44	8.088,14
95+0.000	10,00	-	0,60	8,29	144,26	663,89	8.895,70	8.231,80
96+0.000	10,00	-	-	8,28	165,71	663,89	9.061,41	8.397,52
97+0.000	10,00	-	-	8,09	163,70	663,89	9.225,11	8.561,22
98+0.000	10,00	-	-	7,31	153,99	663,89	9.379,11	8.715,21
99+0.000	10,00	-	-	6,65	139,59	663,89	9.518,69	8.854,80
100+0.000	10,00	-	-	5,29	119,43	663,89	9.638,13	8.974,23

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
101+0.000	10,00	0,93	9,28	2,38	76,76	673,18	9.714,89	9.041,71
102+0.000	10,00	2,61	35,37	1,09	34,72	708,55	9.749,61	9.041,06
103+0.000	10,00	4,47	70,80	0,78	18,67	779,35	9.768,28	8.988,93
104+0.000	10,00	6,13	106,01	0,52	12,97	885,36	9.781,25	8.895,89
105+0.000	10,00	7,58	137,06	0,31	8,25	1.022,42	9.789,50	8.767,08
106+0.000	10,00	8,58	161,52	0,21	5,18	1.183,94	9.794,68	8.610,74
107+0.000	10,00	8,78	173,55	0,23	4,43	1.357,49	9.799,11	8.441,63
108+0.000	10,00	8,36	171,39	0,37	6,07	1.528,88	9.805,19	8.276,31
109+0.000	10,00	8,49	168,52	0,19	5,69	1.697,40	9.810,87	8.113,48
110+0.000	10,00	7,07	155,60	0,36	5,50	1.852,99	9.816,38	7.963,38
111+0.000	10,00	5,22	122,87	0,55	9,09	1.975,86	9.825,47	7.849,61
112+0.000	10,00	3,68	88,96	0,89	14,42	2.064,82	9.839,89	7.775,07
113+0.000	10,00	3,80	74,74	1,21	20,97	2.139,56	9.860,86	7.721,30
114+0.000	10,00	2,52	63,14	3,01	42,20	2.202,70	9.903,06	7.700,36
115+0.000	10,00	1,81	43,24	2,95	59,60	2.245,94	9.962,66	7.716,72
116+0.000	10,00	1,94	37,15	0,81	36,52	2.283,09	9.999,19	7.716,10
117+0.000	10,00	8,84	107,72	0,31	10,93	2.390,81	10.010,12	7.619,31
118+0.000	10,00	30,61	395,78	-	3,13	2.786,59	10.013,26	7.226,66
119+0.000	10,00	45,80	771,59	0,02	0,20	3.558,18	10.013,46	6.455,28
120+0.000	10,00	26,68	733,29	2,01	19,12	4.291,47	10.032,58	5.741,12
121+0.000	10,00	9,95	369,08	1,47	32,93	4.660,55	10.065,51	5.404,96
122+0.000	10,00	0,31	102,79	6,29	77,95	4.763,34	10.143,46	5.380,13
123+0.000	10,00	0,46	7,68	8,39	146,75	4771,02	10290,21	5.519,19
124+0.000	10,00	0,46	9,21	8,81	172,01	4780,23	10462,22	5.681,99
125+0.000	10,00	1,43	18,95	6,03	148,45	4799,18	10610,67	5.811,48
126+0.000	10,00	1,56	29,93	6,90	129,36	4829,12	10740,02	5.910,91
127+0.000	10,00	3,46	50,26	5,12	120,26	4879,38	10860,29	5.980,91
128+0.000	10,00	3,27	67,36	4,89	100,16	4946,73	10960,45	6.013,72
129+0.000	10,00	2,84	61,09	2,48	73,70	5007,82	11034,15	6.026,33
130+0.000	10,00	2,63	54,65	1,05	35,11	5062,47	11069,26	6.006,79
131+0.000	10,00	11,06	136,84	0,96	20,05	5199,32	11089,31	5.890,00
132+0.000	10,00	19,74	308,02	2,22	31,79	5507,34	11121,11	5.613,77
133+0.000	10,00	25,40	451,48	1,71	39,29	5958,82	11160,40	5.201,58
134+0.000	10,00	27,36	527,63	0,80	25,07	6486,45	11185,47	4.699,02
135+0.000	10,00	30,60	579,57	-	8,06	7066,02	11193,53	4.127,51
136+0.000	10,00	26,77	573,70	-	0,05	7639,73	11193,59	3.553,86
137+0.000	10,00	16,40	432,03	0,30	2,97	8071,75	11196,55	3.124,80
138+0.000	10,00	9,11	255,83	0,26	5,49	8327,58	11202,05	2.874,47
139+0.000	10,00	9,84	190,68	0,51	7,59	8518,26	11209,64	2.691,38
140+0.000	10,00	9,43	194,12	0,49	9,83	8712,38	11219,47	2.507,09
141+0.000	10,00	13,03	225,39	-	4,79	8937,78	11224,25	2.286,48
142+0.000	10,00	15,84	288,37	0,01	0,12	9226,14	11224,37	1.998,22
143+0.000	10,00	6,77	225,73	-	0,12	9451,87	11224,48	1.772,61
144+0.000	10,00	0,99	77,63	2,35	23,52	9529,50	11248,01	1.718,50
145+0.000	10,00	0,52	14,85	2,53	49,03	9544,35	11297,04	1.752,69
146+0.000	10,00	1,81	23,26	0,42	29,52	9567,61	11326,56	1.758,95
147+0.000	10,00	3,04	48,49	0,11	5,35	9616,10	11331,91	1.715,81
148+0.000	10,00	4,18	72,25	0,01	1,22	9688,35	11333,13	1.644,78
149+0.000	10,00	7,03	112,14	0,15	1,66	9800,49	11334,79	1.534,30
150+0.000	10,00	6,02	130,52	2,37	25,20	9931,02	11360,00	1.428,98
151+0.000	10,00	4,34	103,59	4,14	65,05	10034,61	11425,05	1.390,44

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
152+0.000	10,00	6,31	106,45	1,27	54,05	10141,06	11479,10	1.338,04
153+0.000	10,00	7,14	134,52	0,06	13,24	10275,58	11492,34	1.216,76
154+0.000	10,00	5,92	130,64	-	0,61	10406,22	11492,95	1.086,73
155+0.000	10,00	3,50	94,02	1,01	10,08	10500,24	11503,04	1.002,79
156+0.000	10,00	6,35	98,49	0,49	14,97	10598,73	11518,00	919,27
157+0.000	10,00	6,78	131,34	0,24	7,27	10730,08	11525,28	795,20
158+0.000	10,00	3,92	106,99	0,77	10,08	10837,06	11535,36	698,29
159+0.000	10,00	2,62	65,32	2,50	32,68	10902,38	11568,04	665,66
160+0.000	10,00	5,61	82,40	0,46	29,25	10984,78	11597,29	612,51
161+0.000	10,00	7,34	129,54	0,02	4,82	11114,32	11602,12	487,80
162+0.000	10,00	8,92	162,65	-	0,20	11276,97	11602,32	325,35
163+0.000	10,00	7,23	161,51	-	0,05	11438,48	11602,37	163,89
164+0.000	10,00	6,10	133,32	0,08	0,83	11571,80	11603,20	31,40
165+0.000	10,00	6,19	123,21	1,36	14,03	11695,00	11617,23	77,77
166+0.000	10,00	5,36	115,96	0,95	22,32	11810,96	11639,55	171,41
167+0.000	10,00	4,46	98,59	0,52	14,22	11909,55	11653,77	255,78
168+0.000	10,00	4,24	87,35	1,31	17,69	11996,91	11671,46	325,45
169+0.000	10,00	5,10	93,60	1,10	23,79	12090,50	11695,25	395,25
170+0.000	10,00	5,20	103,03	0,76	18,62	12193,53	11713,87	479,66
171+0.000	10,00	4,43	96,33	0,35	11,11	12289,86	11724,98	564,88
172+0.000	10,00	4,62	90,66	0,10	4,54	12380,52	11729,52	651,00
173+0.000	10,00	5,74	103,61	0,05	1,57	12484,13	11731,09	753,05
174+0.000	10,00	5,13	108,67	0,04	0,91	12592,80	11732,00	860,81
175+0.000	10,00	4,11	92,37	0,30	3,36	12685,18	11735,35	949,82
176+0.000	10,00	3,30	74,08	1,06	13,58	12759,26	11748,93	1.010,33
177+0.000	10,00	3,27	65,57	1,55	25,85	12824,83	11774,78	1.050,05
178+0.000	10,00	-	32,68	4,62	61,64	12857,51	11836,42	1.021,08
179+0.000	10,00	1,45	14,55	22,97	275,20	12872,06	12111,62	760,43
180+0.000	10,00	0,73	21,81	3,42	263,02	12893,86	12374,64	519,23
181+0.000	10,00	1,90	26,24	2,62	60,32	12920,10	12434,96	485,15
182+0.000	10,00	3,61	55,08	1,43	40,43	12975,18	12475,38	499,80
183+0.000	10,00	2,82	64,56	1,50	29,28	13039,74	12504,67	535,07
184+0.000	10,00	1,93	47,83	1,80	33,16	13087,56	12537,82	549,74
185+0.000	10,00	1,60	35,64	1,22	30,29	13123,20	12568,11	555,09
186+0.000	10,00	3,11	47,10	0,17	13,97	13170,30	12582,07	588,22
187+0.000	10,00	3,12	61,73	0,45	6,26	13232,02	12588,34	643,69
188+0.000	10,00	4,06	70,87	0,50	9,70	13302,90	12598,04	704,86
189+0.000	10,00	4,97	89,31	0,66	11,88	13392,21	12609,91	782,30
190+0.000	10,00	3,75	87,02	2,26	29,30	13479,23	12639,21	840,02
191+0.000	10,00	5,83	95,74	1,02	32,79	13574,97	12672,00	902,97
192+0.000	10,00	1,77	75,95	6,91	79,35	13650,92	12751,35	899,57
193+0.000	10,00	1,22	29,87	5,14	120,49	13680,80	12871,85	808,95
194+0.000	10,00	10,56	117,78	0,81	59,46	13798,57	12931,31	867,26
195+0.000	10,00	3,82	143,77	2,59	34,00	13942,35	12965,30	977,04
196+0.000	10,00	-	38,46	6,90	94,51	13980,80	13059,82	920,99
197+0.000	10,00	1,03	10,25	1,37	82,74	13991,06	13142,56	848,50
198+0.000	10,00	9,12	103,21	0,42	17,71	14094,27	13160,26	934,00
199+0.000	10,00	15,62	248,96	0,02	4,20	14343,23	13164,46	1.178,77
200+0.000	10,00	19,33	347,73	0,03	0,51	14690,96	13164,97	1.525,99
201+0.000	10,00	16,17	351,54	-	0,30	15042,50	13165,26	1.877,23
202+0.000	10,00	4,92	209,31	1,25	11,87	15251,81	13177,14	2.074,67

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
203+0.000	10,00	0,06	49,86	4,05	51,77	15301,66	13228,91	2.072,76
204+0.000	10,00	-	0,59	7,89	119,60	15302,26	13348,51	1.953,75
205+0.000	10,00	-	-	9,74	176,30	15302,26	13524,81	1.777,45
206+0.000	10,00	-	-	8,51	182,49	15302,26	13707,30	1.594,95
207+0.000	10,00	0,04	0,40	6,96	154,71	15302,65	13862,01	1.440,65
208+0.000	10,00	0,05	0,95	5,72	126,73	15303,60	13988,74	1.314,86
209+0.000	10,00	-	0,55	6,55	122,68	15304,15	14111,42	1.192,73
210+0.000	10,00	0,53	5,28	5,03	115,80	15309,43	14227,23	1.082,20
211+0.000	10,00	0,82	13,46	4,20	92,24	15322,89	14319,47	1.003,42
212+0.000	10,00	0,37	11,86	4,69	88,90	15334,75	14408,37	926,38
213+0.000	10,00	0,26	6,29	2,91	76,03	15341,04	14484,40	856,64
214+0.000	10,00	0,63	8,96	1,51	44,14	15349,99	14528,54	821,46
215+0.000	10,00	1,29	19,21	0,98	24,88	15369,21	14553,42	815,79
216+0.000	10,00	1,82	31,11	0,76	17,38	15400,32	14570,80	829,52
217+0.000	10,00	1,79	36,18	1,06	18,18	15436,50	14588,97	847,52
218+0.000	10,00	2,40	41,95	0,60	16,67	15478,45	14605,64	872,81
219+0.000	10,00	2,29	46,90	0,65	12,57	15525,34	14618,21	907,14
220+0.000	10,00	4,83	71,23	0,32	9,70	15596,57	14627,91	968,67
221+0.000	10,00	7,42	122,53	0,02	3,34	15719,10	14631,25	1.087,85
222+0.000	10,00	7,68	151,00	-	0,17	15870,10	14631,42	1.238,68
223+0.000	10,00	5,34	130,20	0,09	0,89	16000,29	14632,30	1.367,99
224+0.000	10,00	2,41	77,23	0,68	7,68	16077,52	14639,98	1.437,54
225+0.000	10,00	2,37	47,81	0,70	13,78	16125,33	14653,76	1.471,57
226+0.000	10,00	5,61	79,83	0,06	7,64	16205,16	14661,40	1.543,76
227+0.000	10,00	10,72	163,30	-	0,62	16368,46	14662,02	1.706,44
228+0.000	10,00	14,15	248,71	-	0,00	16617,17	14662,02	1.955,15
229+0.000	10,00	14,31	284,62	-	0,00	16901,79	14662,02	2.239,77
230+0.000	10,00	11,91	262,21	-	0,00	17164,00	14662,02	2.501,98
231+0.000	10,00	6,77	186,79	-	0,00	17350,79	14662,02	2.688,77
232+0.000	10,00	2,37	91,44	0,35	3,46	17442,24	14665,48	2.776,76
233+0.000	10,00	0,38	27,50	1,56	19,03	17469,73	14684,51	2.785,23
234+0.000	10,00	0,81	11,81	0,92	24,73	17481,55	14709,24	2.772,31
235+0.000	10,00	2,09	28,93	0,59	15,05	17510,47	14724,29	2.786,19
236+0.000	10,00	3,13	52,17	0,11	6,94	17562,64	14731,22	2.831,42
237+0.000	10,00	5,84	89,75	-	1,05	17652,39	14732,27	2.920,12
238+0.000	10,00	8,20	140,42	-	0,00	17792,81	14732,27	3.060,54
239+0.000	10,00	6,03	142,32	-	0,08	17935,13	14732,35	3.202,77
240+0.000	10,00	4,59	106,27	0,08	0,88	18041,40	14733,23	3.308,17
241+0.000	10,00	2,91	74,99	0,28	3,56	18116,39	14736,79	3.379,59
242+0.000	10,00	2,67	55,79	1,11	13,86	18172,17	14750,65	3.421,52
243+0.000	10,00	5,20	78,76	0,71	18,21	18250,93	14768,86	3.482,07
244+0.000	10,00	8,09	132,97	1,48	21,90	18383,90	14790,76	3.593,14
245+0.000	10,00	6,53	145,94	1,99	33,21	18529,84	14823,97	3.705,87
246+0.000	10,00	1,31	77,82	4,88	68,06	18607,66	14892,03	3.715,63
247+0.000	10,00	0,77	20,80	2,58	74,27	18628,46	14966,30	3.662,16
248+0.000	10,00	1,88	27,27	2,60	50,70	18655,73	15017,00	3.638,73
249+0.000	10,00	3,30	52,62	1,23	37,22	18708,35	15054,22	3.654,13
250+0.000	10,00	4,67	80,32	0,33	14,95	18788,67	15069,17	3.719,50
251+0.000	10,00	3,60	83,47	1,02	12,85	18872,14	15082,02	3.790,12
252+0.000	10,00	2,85	65,17	1,27	22,17	18937,31	15104,19	3.833,12
253+0.000	10,00	1,05	39,00	1,22	24,91	18976,31	15129,10	3.847,21

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
254+0.000	10,00	0,67	17,20	1,28	25,02	18993,51	15154,12	3.839,39
255+0.000	10,00	0,57	12,33	1,40	26,95	19005,84	15181,07	3.824,77
256+0.000	10,00	0,61	11,81	1,72	31,18	19017,65	15212,25	3.805,40
257+0.000	10,00	1,18	17,92	1,38	30,99	19035,57	15243,24	3.792,33
258+0.000	10,00	1,56	27,42	1,00	23,79	19062,99	15267,03	3.795,96
259+0.000	10,00	1,83	33,92	1,41	24,09	19096,91	15291,12	3.805,78
260+0.000	10,00	2,14	39,68	1,44	28,48	19136,59	15319,61	3.816,98
261+0.000	10,00	2,45	45,88	1,33	27,71	19182,47	15347,32	3.835,15
262+0.000	10,00	2,92	53,68	1,12	24,52	19236,15	15371,84	3.864,31
263+0.000	10,00	3,37	62,86	1,40	25,16	19299,01	15397,00	3.902,01
264+0.000	10,00	3,06	64,22	2,36	37,54	19363,22	15434,53	3.928,69
265+0.000	10,00	1,93	49,84	2,56	49,15	19413,06	15483,68	3.929,37
266+0.000	10,00	2,32	42,47	2,55	51,03	19455,53	15534,72	3.920,81
267+0.000	10,00	1,91	42,29	2,37	49,14	19497,82	15583,85	3.913,96
268+0.000	10,00	2,30	42,09	2,02	43,87	19539,91	15627,73	3.912,18
269+0.000	10,00	3,56	58,57	1,42	34,40	19598,48	15662,13	3.936,35
270+0.000	10,00	4,55	80,90	0,40	18,28	19679,38	15680,40	3.998,97
271+0.000	10,00	2,97	75,08	0,50	8,84	19754,46	15689,24	4.065,22
272+0.000	10,00	2,09	50,59	0,69	11,69	19805,05	15700,94	4.104,11
273+0.000	10,00	2,10	41,98	0,79	14,59	19847,03	15715,53	4.131,50
274+0.000	10,00	1,67	37,77	0,61	13,76	19884,81	15729,29	4.155,52
275+0.000	10,00	1,63	33,05	1,06	16,52	19917,86	15745,81	4.172,05
276+0.000	10,00	2,97	45,90	0,30	13,49	19963,76	15759,30	4.204,46
277+0.000	10,00	0,12	30,77	2,68	29,81	19994,53	15789,11	4.205,41
278+0.000	10,00	0,37	4,87	2,13	48,29	19999,40	15837,41	4.161,99
279+0.000	10,00	1,14	14,92	1,27	34,19	20014,31	15871,60	4.142,71
280+0.000	10,00	2,07	31,87	0,53	18,10	20046,18	15889,70	4.156,48
281+0.000	10,00	4,74	67,99	0,13	6,64	20114,17	15896,34	4.217,83
282+0.000	10,00	6,69	114,24	0,08	2,18	20228,41	15898,52	4.329,89
283+0.000	10,00	5,59	122,76	0,05	1,29	20351,17	15899,81	4.451,36
284+0.000	10,00	3,90	94,86	0,20	2,49	20446,04	15902,30	4.543,73
285+0.000	10,00	3,47	73,65	0,13	3,35	20519,68	15905,65	4.614,03
286+0.000	10,00	2,81	62,80	0,13	2,58	20582,48	15908,23	4.674,25
287+0.000	10,00	3,27	60,85	0,15	2,76	20643,33	15910,99	4.732,34
288+0.000	10,00	2,72	59,89	0,28	4,28	20703,22	15915,27	4.787,95
289+0.000	10,00	1,83	45,44	0,78	10,57	20748,67	15925,84	4.822,83
290+0.000	10,00	2,82	46,50	2,28	30,63	20795,17	15956,46	4.838,71
291+0.000	10,00	2,08	48,99	1,45	37,33	20844,16	15993,80	4.850,37
292+0.000	10,00	4,95	70,23	0,34	17,92	20914,40	16011,71	4.902,68
293+0.000	10,00	8,31	132,55	0,27	6,17	21046,94	16017,89	5.029,06
294+0.000	10,00	12,04	203,47	0,35	6,29	21250,41	16024,17	5.226,24
295+0.000	10,00	2,57	146,13	0,81	11,68	21396,54	16035,85	5.360,69
296+0.000	10,00	0,39	29,60	2,57	33,81	21426,14	16069,66	5.356,47
297+0.000	10,00	0,12	5,04	4,00	65,67	21431,18	16135,33	5.295,85
298+0.000	10,00	0,32	4,42	2,01	60,13	21435,60	16195,46	5.240,14
299+0.000	10,00	2,51	28,34	0,82	28,35	21463,94	16223,81	5.240,13
300+0.000	10,00	3,15	56,62	0,75	15,66	21520,55	16239,47	5.281,08
301+0.000	10,00	3,36	65,09	0,67	14,13	21585,64	16253,59	5.332,04
302+0.000	10,00	2,41	57,70	0,85	15,18	21643,34	16268,77	5.374,57
303+0.000	10,00	2,41	48,26	0,66	15,07	21691,60	16283,85	5.407,76
304+0.000	10,00	2,93	53,39	0,49	11,50	21744,99	16295,35	5.449,64

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
305+0.000	10,00	3,26	61,84	0,58	10,77	21806,83	16306,12	5.500,72
306+0.000	10,00	3,34	66,00	0,59	11,74	21872,84	16317,85	5.554,98
307+0.000	10,00	3,63	69,72	0,56	11,55	21942,56	16329,41	5.613,16
308+0.000	10,00	4,17	77,99	0,32	8,84	22020,55	16338,25	5.682,30
309+0.000	10,00	4,93	90,99	0,25	5,65	22111,54	16343,90	5.767,64
310+0.000	10,00	5,72	106,52	0,42	6,64	22218,06	16350,54	5.867,52
311+0.000	10,00	4,30	100,17	1,60	20,20	22318,23	16370,74	5.947,49
312+0.000	10,00	5,10	93,93	2,20	38,05	22412,16	16408,79	6.003,37
313+0.000	10,00	2,15	72,44	2,65	48,55	22484,60	16457,34	6.027,26
314+0.000	10,00	5,91	80,59	1,96	46,09	22565,19	16503,44	6.061,75
315+0.000	10,00	2,36	82,76	1,58	35,34	22647,95	16538,78	6.109,17
316+0.000	10,00	1,47	38,37	1,34	29,18	22686,32	16567,96	6.118,37
317+0.000	10,00	2,63	41,01	1,61	29,53	22727,33	16597,49	6.129,84
318+0.000	10,00	5,54	81,65	0,95	25,62	22808,98	16623,11	6.185,88
319+0.000	10,00	6,65	121,87	0,74	16,88	22930,85	16639,98	6.290,87
320+0.000	10,00	8,94	155,87	0,16	9,01	23086,72	16648,99	6.437,73
321+0.000	10,00	10,95	198,90	-	1,61	23285,62	16650,60	6.635,02
322+0.000	10,00	8,91	198,57	0,02	0,24	23484,19	16650,84	6.833,36
323+0.000	10,00	9,78	186,89	0,02	0,47	23671,08	16651,30	7.019,78
324+0.000	10,00	9,59	193,75	0,40	4,19	23864,84	16655,49	7.209,35
325+0.000	10,00	9,39	189,80	1,02	14,15	24054,64	16669,64	7.384,99
326+0.000	10,00	8,72	181,08	1,36	23,77	24235,71	16693,41	7.542,30
327+0.000	10,00	5,58	142,96	3,10	44,57	24378,68	16737,99	7.640,69
328+0.000	10,00	3,11	86,91	2,59	56,92	24465,59	16794,91	7.670,68
329+0.000	10,00	6,00	91,42	2,33	48,90	24557,01	16843,81	7.713,20
330+0.000	10,00	7,90	139,07	0,34	26,73	24696,08	16870,54	7.825,54
331+0.000	10,00	2,81	107,12	4,91	52,55	24803,19	16923,09	7.880,10
332+0.000	10,00	0,55	33,55	1,78	66,93	24836,75	16990,02	7.846,73
333+0.000	10,00	2,41	29,53	0,80	25,79	24866,28	17015,81	7.850,47
334+0.000	10,00	3,47	58,75	0,56	13,63	24925,03	17029,45	7.895,59
335+0.000	10,00	3,06	65,30	0,24	8,07	24990,33	17037,52	7.952,81
336+0.000	10,00	4,61	76,68	0,25	4,99	25067,01	17042,51	8.024,50
337+0.000	10,00	3,31	79,15	0,31	5,61	25146,16	17048,12	8.098,03
338+0.000	10,00	2,60	59,09	0,40	7,09	25205,25	17055,21	8.150,04
339+0.000	10,00	1,90	44,99	0,40	8,07	25250,24	17063,28	8.186,96
340+0.000	10,00	2,48	43,73	0,37	7,75	25293,97	17071,03	8.222,94
341+0.000	10,00	2,85	53,21	0,34	7,12	25347,18	17078,15	8.269,03
342+0.000	10,00	3,69	65,40	0,16	5,05	25412,59	17083,20	8.329,38
343+0.000	10,00	5,04	87,34	0,01	1,78	25499,93	17084,99	8.414,94
344+0.000	10,00	4,57	96,08	0,44	4,51	25596,01	17089,50	8.506,51
345+0.000	10,00	4,00	86,14	0,79	12,20	25682,15	17101,70	8.580,45
346+0.000	10,00	5,66	97,30	1,08	18,45	25779,45	17120,15	8.659,30
347+0.000	10,00	7,19	129,75	1,24	22,84	25909,20	17142,99	8.766,21
348+0.000	10,00	6,36	137,01	1,65	28,54	26046,21	17171,53	8874,68
349+0.000	10,00	7,90	143,99	0,88	24,98	26190,20	17196,51	8993,69
350+0.000	10,00	11,66	197,05	0,23	10,89	26387,25	17207,40	9179,85
351+0.000	10,00	11,85	236,49	0,06	2,79	26623,74	17210,19	9413,54
352+0.000	10,00	9,46	214,15	0,07	1,30	26837,89	17211,50	9626,39
353+0.000	10,00	6,54	160,72	0,06	1,30	26998,60	17212,80	9785,80
354+0.000	10,00	4,76	112,94	0,57	6,26	27111,54	17219,06	9892,48
355+0.000	10,00	3,31	80,68	1,21	17,83	27192,22	17236,89	9955,34

Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
356+0.000	10,00	3,36	66.70	1,65	28.60	27258.92	17265.49	9993.43
357+0.000	10,00	3,54	68.98	2,46	41.02	27327.90	17306.51	10021.39
358+0.000	10,00	1,44	49.81	4,19	66.41	27377.71	17372.92	10004.78
359+0.000	10,00	0,65	20.91	4,28	84.61	27398.62	17457.53	9941.09
360+0.000	10,00	3,95	46.00	1,79	60.62	27444.62	17518.15	9926.47
361+0.000	10,00	5,42	93.66	0,82	26.08	27538.27	17544.23	9994.05
362+0.000	10,00	4,84	102.60	0,79	16.10	27640.87	17560.32	10080.55
363+0.000	10,00	2,64	74.85	0,65	14.40	27715.72	17574.73	10141.00
364+0.000	10,00	5,98	86.27	0,24	8.97	27801.99	17583.69	10218.30
365+0.000	10,00	8,88	148.69	-	2.44	27950.68	17586.14	10364.55
366+0.000	10,00	10,07	189.57	-	0.00	28140.25	17586.14	10554.12
367+0.000	10,00	8,99	190.63	-	0.00	28330.88	17586.14	10744.74
368+0.000	10,00	7,92	168.65	-	0.07	28499.53	17586.20	10913.33
369+0.000	10,00	10,50	181.39	-	0.06	28680.92	17586.26	11094.66
370+0.000	10,00	12,77	230.19	-	0.00	28911.11	17586.26	11324.85
371+0.000	10,00	9,04	218.33	0,82	7.53	29129.44	17593.80	11535.65
372+0.000	10,00	3,61	127.27	0,66	13.66	29256.72	17607.46	11649.26
373+0.000	10,00	5,50	90.74	0,25	8.50	29347.45	17615.96	11731.50
374+0.000	10,00	8,23	137.21	0,03	2.62	29484.67	17618.58	11866.09
375+0.000	10,00	10,17	184.54	-	0.25	29669.21	17618.82	12050.38
376+0.000	10,00	5,43	156.39	0,24	2.24	29825.60	17621.06	12204.54
377+0.000	10,00	2,70	80.27	0,40	6.36	29905.87	17627.42	12278.45
378+0.000	10,00	6,74	94.01	0,16	5.58	29999.88	17633.00	12366.88
379+0.000	10,00	6,24	129.77	0,24	3.98	30129.65	17636.98	12492.66
380+0.000	10,00	7,67	139.10	-	2.40	30268.75	17639.38	12629.36
381+0.000	10,00	10,70	183.76	-	0.00	30452.51	17639.38	12813.13
382+0.000	10,00	10,54	212.42	0,04	0.43	30664.93	17639.81	13025.12
383+0.000	10,00	10,01	205.54	-	0.48	30870.47	17640.29	13230.19
384+0.000	10,00	4,27	142.87	0,12	1.21	31013.34	17641.50	13371.84
385+0.000	10,00	2,69	69.65	0,62	7.33	31083.00	17648.83	13434.16
386+0.000	10,00	5,86	85.47	-	6.17	31168.47	17655.00	13513.46
387+0.000	10,00	11,45	173.07	-	0.00	31341.54	17655.01	13686.53
388+0.000	10,00	13,72	251.68	-	0.00	31593.22	17655.01	13938.20
389+0.000	10,00	8,27	219.85	-	0.00	31813.07	17655.01	14158.05
390+0.000	10,00	3,05	113.59	0,36	3.62	31926.65	17658.63	14268.03
391+0.000	10,00	4,13	71.86	0,40	7.55	31998.51	17666.18	14332.34
392+0.000	10,00	3,67	78.05	0,14	5.32	32076.57	17671.49	14405.07
393+0.000	10,00	2,94	66.17	0,45	5.83	32142.74	17677.33	14465.41
394+0.000	10,00	3,90	68.39	0,72	11.71	32211.13	17689.03	14522.10
395+0.000	10,00	4,75	86.42	0,65	13.76	32297.55	17702.80	14594.75
396+0.000	10,00	1,89	66.41	1,01	16.59	32363.96	17719.38	14644.58
397+0.000	10,00	0,55	24.42	2,52	35.21	32388.38	17754.59	14633.78
398+0.000	10,00	0,20	7.46	3,89	64.03	32395.84	17818.62	14577.22
399+0.000	10,00	0,26	4.58	3,69	75.75	32400.42	17894.37	14506.05
400+0.000	10,00	2,37	26.32	1,20	48.83	32426.74	17943.20	14483.54
401+0.000	10,00	10,31	126.81	0,04	12.41	32553.54	17955.61	14597.93
402+0.000	10,00	7,49	177.94	0,04	0.85	32731.48	17956.46	14775.02
403+0.000	10,00	3,20	106.85	1,89	19.27	32838.33	17975.73	14862.60
404+0.000	10,00	9,56	127.55	-	18.91	32965.89	17994.64	14971.25
405+0.000	10,00	15,26	248.14	-	0.04	33214.02	17994.68	15219.34
406+0.000	10,00	14,20	294.56	-	0.00	33508.58	17994.68	15513.90


Memorial Descritivo

ESTACA	Semi-Distância	area de Corte	Volume de Corte	Area de Aterro	Volume de Aterro	Acumulado de Corte	Acumulado de Aterro	Diferença de Volume
	m	m ²	m ³	m ²	m ³	m ³	m ³	m ³
407+0.000	10,00	12,32	265.16	-	0.00	33773.73	17994.68	15779.05
408+0.000	10,00	9,05	213.66	-	0.03	33987.40	17994.71	15992.69
409+0.000	10,00	7,55	166.03	0,02	0.22	34153.42	17994.93	16158.49
410+0.000	10,00	5,61	131.66	0,13	1.47	34285.08	17996.40	16288.68
411+0.000	10,00	5,85	114.63	0,11	2.34	34399.71	17998.74	16400.97
412+0.000	10,00	6,11	119.62	0,37	4.73	34519.33	18003.48	16515.86
413+0.000	10,00	6,30	124.07	0,19	5.61	34643.40	18009.09	16634.32
414+0.000	10,00	6,48	127.81	0,02	2.11	34771.21	18011.19	16760.02
415+0.000	10,00	6,50	129.89	0,20	2.20	34901.10	18013.39	16887.71
416+0.000	10,00	5,88	123.86	0,18	3.82	35024.97	18017.21	17007.76
417+0.000	10,00	5,66	115.45	0,24	4.21	35140.42	18021.42	17118.99
418+0.000	10,00	5,76	114.17	0,29	5.42	35254.59	18026.84	17227.75
419+0.000	10,00	6,09	118.48	0,27	5.89	35373.07	18032.73	17340.34
420+0.000	10,00	6,05	121.54	0,17	4.64	35494.61	18037.37	17457.24
421+0.000	10,00	6,32	124.27	-	1.83	35618.89	18039.20	17579.69
422+0.000	10,00	6,66	130.14	0,27	2.86	35749.03	18042.06	17706.97
423+0.000	10,00	6,11	127.64	0,33	6.01	35876.66	18048.06	17828.60

VOLUME TOTAL DE ATERRO	18048.06	M3
VOLUME TOTAL DE CORTE	35876.66	M3

05 – DISPOSIÇÕES GERAIS

O presente memorial descritivo contém as coordenadas georreferenciadas ao Sistema Geodésico Brasileiro, Meridiano Central 51o WGr e encontra-se representadas no Sistema UTM, tendo como datum o SIRGAS 2000. Todos os azimutes e distâncias, área e perímetro foram calculados no plano de projeção UTM fuso 22.



SETE - Serviços Técnicos Engenharia
Eng. Tiago Oliveira do Canto
CREA-SC 113.565-2