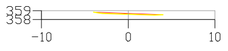
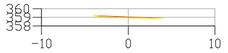
Rua Cod. 01



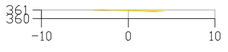
EST: 2+17.786



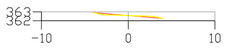
EST: 2+2.199



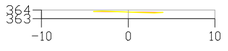
EST: 2



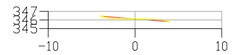
EST: 1+8.542



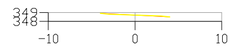
EST: 1



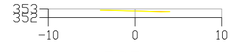
EST: 0



EST: 2+12.332



EST: 2

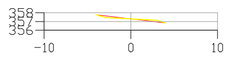


EST: 1

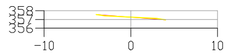


EST: 0

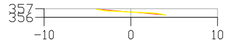
Rua Cod. 02



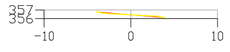
EST: 9



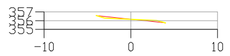
EST: 8



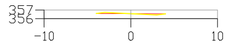
EST: 7



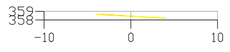
EST: 6



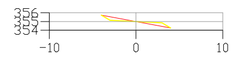
EST: 5



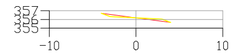
EST: 4



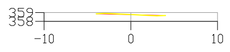
EST: 3



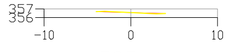
EST: 10+19.446



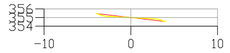
EST: 10



EST: 2



EST: 1

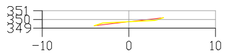


EST: 0

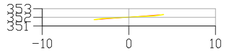
Rua Cod. 03



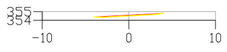
EST: 2+11.792



EST: 2

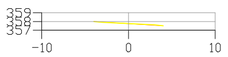


EST: 1

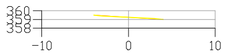


EST: 0

Rua Cod. 04



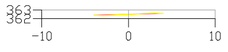
EST: 9



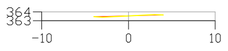
EST: 8



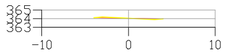
EST: 7



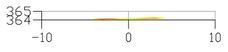
EST: 6



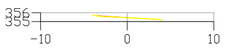
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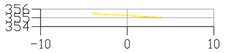
EST: 4



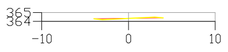
EST: 3



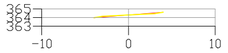
EST: 10+4.895



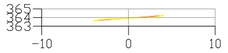
EST: 10



EST: 2



EST: 1



EST: 0

SEÇÕES TRANSVERSAIS
Esc.: 1/500

RELATÓRIO DE VOLUME PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 2+17.786

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Luiz Cezar Rodrigues Oliveira 01.ali

ESTACA	ÁREAS CORTE	ÁREAS ATERRO	ÁREA ACUMULADA CORTE	ÁREA ACUMULADA ATERRO	SEMI DISTÂNCIA	VOLUMES CORTE	VOLUMES ATERRO	VOLUME ACUMULADO CORTE	VOLUME ACUMULADO ATERRO
0	0.119	0.119	0.119	0.119					
					10.000	4.130	4.130	4.130	4.130
1	0.294	0.294	0.413	0.413					
					4.271	1.755	1.696	5.885	5.826
1+8.542	0.117	0.103	0.530	0.516					
					5.729	4.681	0.590	10.566	6.416
2	0.700	0.000	1.230	0.516					
					1.100	1.537	0.000	12.103	6.416
2+2.199	0.697	0.000	1.927	0.516					
					7.794	5.908	0.639	18.011	7.055
2+17.786	0.061	0.082	1.988	0.598					

TOTAL ÁREA DE CORTE: 1.988 m² **TOTAL VOLUME DE CORTE:** 18.011 m³
TOTAL ÁREA DE ATERRO: 0.598 m² **TOTAL VOLUME DE ATERRO:** 7.055 m³

RELATÓRIO DE VOLUME PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 2+12.332

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Luiz Cezar Rodrigues Oliveira 02.ali

ESTACA	ÁREAS CORTE	ÁREAS ATERRO	ÁREA ACUMULADA CORTE	ÁREA ACUMULADA ATERRO	SEMI DISTÂNCIA	VOLUMES CORTE	VOLUMES ATERRO	VOLUME ACUMULADO CORTE	VOLUME ACUMULADO ATERRO
0	0.037	0.037	0.037	0.037					
					10.000	1.040	1.080	1.040	1.080
1	0.067	0.071	0.104	0.108					
					10.000	1.770	1.840	2.810	2.920
2	0.110	0.113	0.214	0.221					
					6.166	2.448	2.485	5.258	5.405
2+12.332	0.287	0.290	0.501	0.511					

TOTAL ÁREA DE CORTE: 0.501 m² **TOTAL VOLUME DE CORTE:** 5.258 m³
TOTAL ÁREA DE ATERRO: 0.511 m² **TOTAL VOLUME DE ATERRO:** 5.405 m³

RELATÓRIO DE VOLUME PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 10+19.446

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Telbio Soria Leite.ali

ESTACA	ÁREAS CORTE	ÁREAS ATERRO	ÁREA ACUMULADA CORTE	ÁREA ACUMULADA ATERRO	SEMI DISTÂNCIA	VOLUMES CORTE	VOLUMES ATERRO	VOLUME ACUMULADO CORTE	VOLUME ACUMULADO ATERRO
0	0.389	0.393	0.389	0.393					
					10.000	5.220	5.290	5.220	5.290
1	0.133	0.136	0.522	0.529					
					10.000	2.910	2.980	8.130	8.270
2	0.158	0.162	0.680	0.691					
					10.000	2.360	1.950	10.490	10.220
3	0.078	0.033	0.758	0.724					
					10.000	3.300	2.990	13.790	13.210
4	0.252	0.266	1.010	0.990					
					10.000	5.960	6.380	19.750	19.590
5	0.344	0.372	1.354	1.362					
					10.000	5.530	5.810	25.280	25.400
6	0.209	0.209	1.563	1.571					
					10.000	4.170	4.200	29.450	29.600
7	0.208	0.211	1.771	1.782					
					10.000	3.660	3.690	33.110	33.290
8	0.158	0.158	1.929	1.940					
					10.000	5.590	5.630	38.700	38.920
9	0.401	0.405	2.330	2.345					
					10.000	8.950	9.030	47.650	47.950
10	0.494	0.498	2.824	2.843					
					9.723	12.718	12.786	60.368	60.736
10+19.446	0.814	0.817	3.638	3.660					

TOTAL ÁREA DE CORTE: 3.638 m² **TOTAL VOLUME DE CORTE:** 60.368 m³
TOTAL ÁREA DE ATERRO: 3.660 m² **TOTAL VOLUME DE ATERRO:** 60.736 m³

RELATÓRIO DE VOLUME PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 2+11.792

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Rodolfo Hepp.ali

ESTACA	ÁREAS CORTE	ÁREAS ATERRO	ÁREA ACUMULADA CORTE	ÁREA ACUMULADA ATERRO	SEMI DISTÂNCIA	VOLUMES CORTE	VOLUMES ATERRO	VOLUME ACUMULADO CORTE	VOLUME ACUMULADO ATERRO
0	0.655	0.000	0.655	0.000					
					10.000	7.870	1.320	7.870	1.320
1	0.132	0.132	0.787	0.132					
					10.000	5.280	5.280	13.150	6.600
2	0.396	0.396	1.183	0.528					
					5.896	3.042	3.042	16.192	9.642
2+11.792	0.120	0.120	1.303	0.648					

TOTAL ÁREA DE CORTE: 1.303 m² **TOTAL VOLUME DE CORTE:** 16.192 m³
TOTAL ÁREA DE ATERRO: 0.648 m² **TOTAL VOLUME DE ATERRO:** 9.642 m³

RELATÓRIO DE VOLUME PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 10+4.895

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Assis Pinheiro Amaral.ali

ESTACA	ÁREAS CORTE	ÁREAS ATERRO	ÁREA ACUMULADA CORTE	ÁREA ACUMULADA ATERRO	SEMI DISTÂNCIA	VOLUMES CORTE	VOLUMES ATERRO	VOLUME ACUMULADO CORTE	VOLUME ACUMULADO ATERRO
0	0.162	0.151	0.162	0.151					
					10.000	3.410	3.200	3.410	3.200
1	0.179	0.169	0.341	0.320					
					10.000	3.960	3.890	7.370	7.090
2	0.217	0.220	0.558	0.540					
					10.000	4.410	4.440	11.780	11.530
3	0.224	0.224	0.782	0.764					
					10.000	4.070	4.520	15.850	16.050
4	0.183	0.228	0.965	0.992					
					10.000	3.400	3.880	19.250	19.930
5	0.157	0.160	1.122	1.152					
					10.000	3.110	3.170	22.360	23.100
6	0.154	0.157	1.276	1.309					
					10.000	2.560	2.590	24.920	25.690
7	0.102	0.102	1.378	1.411					
					10.000	1.770	1.770	26.690	27.460
8	0.075	0.075	1.453	1.486					
					10.000	1.270	1.760	27.960	29.220
9	0.052	0.101	1.505	1.587					
					10.000	1.040	2.020	29.000	31.240
10	0.052	0.101	1.557	1.688					
					2.448	0.375	0.375	29.375	31.615
10+4.895	0.101	0.052	1.658	1.740					

TOTAL ÁREA DE CORTE: 1.658 m² **TOTAL VOLUME DE CORTE:** 29.375 m³
TOTAL ÁREA DE ATERRO: 1.740 m² **TOTAL VOLUME DE ATERRO:** 31.615 m³

MARCELO VAZ LEAL:64054500072
Assinado de forma digital por MARCELO VAZ LEAL:64054500072
Dados: 2026.03.13 16:13:32 -03'00'

IBRA 3 ENGENHARIA . LTDA

IBRA3 ENGENHARIA LTDA
CNPJ.: 20.699.295/0001-43
RUA JORNALISTA ALBANO REIS, 346 - BAGÉ/RS

LOCAL	ÁREA	DATA
PIRATINI	3.349,12m²	MAR./2026

CLIENTE: PREFEITURA MUNICIPAL DE PIRATINI

RESPONSÁVEL TÉCNICO: MARCELO VAZ LEAL
ENGª CIVIL - CREA 085578

ESPECIFICAÇÃO	ESCALA	PRANCHA
PROJETO DE TERRAPLANAGEM LOTE 05	INDICADA	3/4