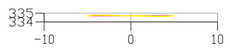
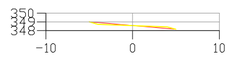
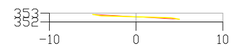
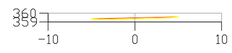
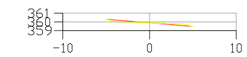
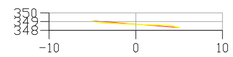
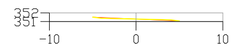
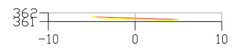
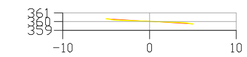
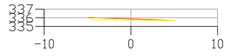
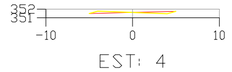
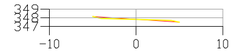
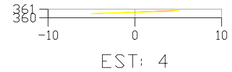
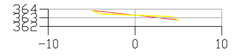
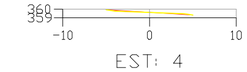
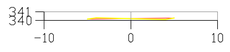
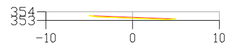
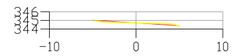
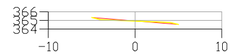
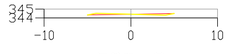
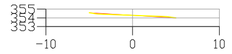
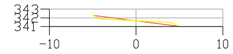
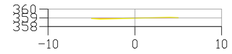
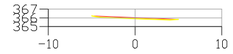
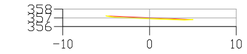
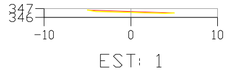
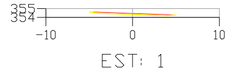
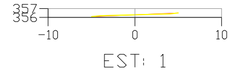
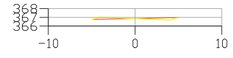
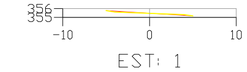
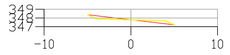
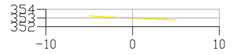
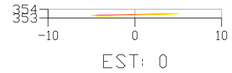
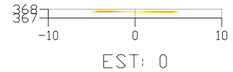
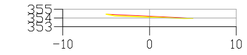
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SEÇÕES TRANSVERSAIS
Esc.: 1/500

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 5+1.008

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Vicente Lucas de 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	0.085	0.116	0.085	0.116					
					10.000	10.570	1.160	10.570	1.160
1	0.972	0.000	1.057	0.116					
					10.000	11.550	2.600	22.120	3.760
2	0.183	0.260	1.240	0.376					
					10.000	10.830	2.600	32.950	6.360
3	0.900	0.000	2.140	0.376					
					10.000	15.330	6.330	48.280	12.690
4	0.633	0.633	2.773	1.009					
					10.000	10.750	10.030	59.030	22.720
5	0.442	0.370	3.215	1.379					
					0.504	0.492	0.417	59.522	23.137
5+1.008	0.535	0.458	3.750	1.837					

TOTAL ÁREA DE CORTE: 3.750 m² **TOTAL VOLUME DE CORTE:** 59.522 m³
TOTAL ÁREA DE ATERRO: 1.837 m² **TOTAL VOLUME DE ATERRO:** 23.137 m³

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 5+1.447

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Vicente Lucas de 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	0.942	0.865	0.942	0.865					
					10.000	19.140	8.650	19.140	8.650
1	0.972	0.000	1.914	0.865					
					10.000	14.010	4.330	33.150	12.980
2	0.429	0.433	2.343	1.298					
					10.000	8.450	7.730	41.600	20.710
3	0.416	0.340	2.759	1.638					
					10.000	17.660	3.400	59.260	24.110
4	1.350	0.000	4.109	1.638					
					10.000	16.310	2.040	75.570	26.150
5	0.281	0.204	4.390	1.842					
					0.724	0.402	0.346	75.972	26.496
5+1.447	0.274	0.274	4.664	2.116					

TOTAL ÁREA DE CORTE: 4.664 m² **TOTAL VOLUME DE CORTE:** 75.972 m³
TOTAL ÁREA DE ATERRO: 2.116 m² **TOTAL VOLUME DE ATERRO:** 26.496 m³

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 3+7.918

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Manoel L. de Lima 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	0.762	0.762	0.762	0.762					
					10.000	11.310	11.350	11.310	11.350
1	0.369	0.373	1.131	1.135					
					10.000	8.030	7.310	19.340	18.660
2	0.434	0.358	1.565	1.493					
					10.000	6.360	5.600	25.700	24.260
3	0.202	0.202	1.767	1.695					
					3.959	1.983	1.999	27.683	26.259
3+7.918	0.299	0.303	2.066	1.998					

TOTAL ÁREA DE CORTE: 2.066 m² **TOTAL VOLUME DE CORTE:** 27.683 m³
TOTAL ÁREA DE ATERRO: 1.998 m² **TOTAL VOLUME DE ATERRO:** 26.259 m³

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 5+1.010

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Manoel L. de Lima 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	0.900	0.000	0.900	0.000					
					10.000	10.660	1.660	10.660	1.660
1	0.166	0.166	1.066	0.166					
					10.000	4.250	2.760	14.910	4.420
2	0.259	0.110	1.325	0.276					
					10.000	5.540	3.280	20.450	7.700
3	0.295	0.218	1.620	0.494					
					10.000	4.650	3.120	25.100	10.820
4	0.170	0.094	1.790	0.588					
					10.000	3.640	2.160	28.740	12.980
5	0.194	0.122	1.984	0.710					
					0.505	0.552	0.062	29.292	13.042
5+1.010	0.900	0.000	2.884	0.710					

TOTAL ÁREA DE CORTE: 2.884 m² **TOTAL VOLUME DE CORTE:** 29.292 m³
TOTAL ÁREA DE ATERRO: 0.710 m² **TOTAL VOLUME DE ATERRO:** 13.042 m³

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 5+8.819

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Dr. Eliseu F. Rodrigues.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	0.977	0.000	0.977	0.000					
					10.000	12.910	2.110	12.910	2.110
1	0.314	0.211	1.291	0.211					
					10.000	12.140	2.110	25.050	4.220
2	0.900	0.000	2.191	0.211					
					10.000	10.250	1.250	35.300	5.470
3	0.125	0.125	2.316	0.336					
					10.000	3.910	3.190	39.210	8.660
4	0.266	0.194	2.582	0.530					
					10.000	4.900	4.220	44.110	12.880
5	0.224	0.228	2.806	0.758					
					4.410	3.294	2.972	47.404	15.852
5+8.819	0.523	0.446	3.329	1.204					

TOTAL ÁREA DE CORTE: 3.329 m² **TOTAL VOLUME DE CORTE:** 47.404 m³
TOTAL ÁREA DE ATERRO: 1.204 m² **TOTAL VOLUME DE ATERRO:** 15.852 m³

RELATÓRIO DE VOLUME
PRIMITIVO x PROJETO
Trecho: Est. 0 à Est. 5+9.487

Cliente:
Obra:
Município:
Trecho:

Arquivo: C:\Posicao\Demos\Rua Joaquim T. Nunes.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	0.371	0.371	0.371	0.371					
					10.000	9.970	9.250	9.970	9.250
1	0.626	0.554	0.997	0.925					
					10.000	16.030	5.540	26.000	14.790
2	0.977	0.000	1.974	0.925					
					10.000	14.470	3.980	40.470	18.770
3	0.470	0.398	2.444	1.323					
					10.000	12.130	11.410	52.600	30.180
4	0.743	0.743	3.187	2.066					
					10.000	17.200	7.430	69.800	37.610
5	0.977	0.000	4.164	2.066					
					4.744	5.370	0.735	75.170	38.345
5+9.487	0.155	0.155	4.319	2.221					

TOTAL ÁREA DE CORTE: 4.319 m² **TOTAL VOLUME DE CORTE:** 75.170 m³
TOTAL ÁREA DE ATERRO: 2.221 m² **TOTAL VOLUME DE ATERRO:** 38.345 m³

MARCELO VAZ LEAL:64054500072
Assinado de forma digital por MARCELO VAZ LEAL:64054500072
Dados: 2026.10.05 11:20:18 -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	11.203,29 m²	FEV./2026

CLIENTE: PREFEITURA MUNICIPAL DE PIRATINI

RESPONSÁVEL TÉCNICO: MARCELO VAZ LEAL, ENGº CIVIL - CREA 085578

ESPECIFICAÇÃO: PROJETO DE TERRAPLANAGEM LOTE 02

ESCALA	PRANCHA
INDICADA	4/5