GOVERNO DO ESTADO DO CEARÁ
SECRETARIA DOS RECURSOS HÍDRICOS - SRH

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SECRETARIA DOS RECURSOS HÍDRICOS

PROJETO EXECUTIVO DA ADUTORA DE FEITICEIRO, NO MUNICÍPIO DE JAGUARIBE NO ESTADO DO CEARÁ

TOMO III - LEVANTAMENTO TOPOGRÁFICO

ANB

FORTALEZA
DEZEMBRO - 1997

GOVERNO DO ESTADO

CEARÁ
AVANÇANDO NAS MUDANÇAS

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ANB
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ESTADO DO CEARÁ
BIBLIOTECA
SECRETARIA DE RECURSOS

SETEMBRO - 1997

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1 - APRESENTAÇÃO

O Governo do Estado do Ceará, através da Secretaria dos Recursos Hídricos, vem implantando ações institucionais e executando projetos voltados para o desenvolvimento dos recursos hídricos com o objetivo de garantir a regularidade e a democratização da oferta d'água em todo o seu território

Dando seguimento a estes programas e devido a precariedade do atual sistema de abastecimento d'água do distrito de Feiticeiro, a SRH contratou a elaboração do Projeto Executivo da Adutora de Feiticeiro, objeto do Contrato nº 39/97-SRH, firmado entre a SRH e a ANB - Águas do Nordeste do Brasil Ltda

O presente documento se constitui no Relatório do Levantamento Topografico da Adutora de Feiticeiro, tendo o desenvolvimento dos serviços sido pautado nos critérios e diretrizes técnicas estabelecidas pelo Termo de Referência elaborado pela SRH e seguiu as Normas Técnicas da ABTN e outras normas internacionais utilizadas no Brasil, além dos procedimentos normativos aprovados pela CAGECE/CETESB e experiência da SRH no desenvolvimento de projetos dessa natureza Neste relatório estão apresentadas as cadernetas de campo referentes ao nivelamento e contranivelamento do transporte de cotas do RN 1 694 T localizado na BR-116, locação do eixo da adutora, nivelamento e contranivelamento do eixo da adutora e nivelamento das seções

O Projeto Executivo da Adutora de Feiticeiro será composto dos seguintes estudos

- Tomo I Estudos de Alternativas de Traçado
- Tomo II Estudos Básicos
- Tomo III Levantamento Topográfico
- Tomo VI Levantamento Geotécnico
- Tomo V Estudos de Concepção do Sistema
- Tomo VI Detalhamento da Alternativa Selecionada
  - Volume 1 Relatório Geral
  - Volume 2 Memorial de Cálculo
  - Volume 3 Quantitativos e Orçamentos
  - Volume 4 Especificações Técnicas e Normas de Medição e Pagamento

2 - INTRODUÇÃO

2 1 - GENERALIDADES

O distrito de Feiticeiro, localizado no município de Jaguaribe, com uma população total de 5 730 habitantes, de acordo com o último censo realizado pelo IBGE em 1991, apresenta um nível de abastecimento d'água bastante precário, que se torna mais crítico nos períodos de estiagem

A fonte hídrica do atual sistema de abastecimento d'água de Feiticeiro é o Açude Público Joaquim Távora, localizado neste distrito, tendo sido construído pelo Departamento Nacional de Obras Contra as Secas - DNOCS, possuindo um volume de *armazenamento de aproximadamente 24 milhões de m³*

Embora a capacidade deste açude fosse suficiente para garantir o abastecimento d'água do referido distrito, mesmo em períodos críticos, foram construídos dois açudes a montante, acarretando impactos hidrológicos cumulativos nos reservatórios a jusante, diminuindo bastante a afluência d'água do açude Joaquim Távora Por esse motivo, já *e terceira vez que a população passa a ser abastecida por carros pipa*

De acordo com visita de campo realizada e com informações técnicas coletadas, constatou-se que o atual volume disponível no reservatorio encontra-se bem próximo *ao armazenamento correspondente ao porão e sem muitas condições de encher* mesmo durante os períodos invernosos normais e até mesmo de pluviometria pouco *acima da média, influenciando, também, na qualidade da água, fator esse primordial* devido ao uso a que se destina, ou seja, o abastecimento humano

Buscou-se, então, através de um estudo de alternativas, a solução mais adequada para *resolver, de forma definitiva, o problema de abastecimento d'agua de Feiticeiro* Após esta análise verificou-se que a alternativa mais viavel é captar no rio Jaguaribe, a fio d'água, próximo ao distrito de Mapuá, sendo aduzida por aproximadamente 20 km até a Estação de Tratamento, que deverá ser relocada para próximo do reservatório elevado existente O atual sistema de abastecimento d'água é gerenciado pela Fundação Nacional de Saúde

2 2 - LOCALIZAÇÃO E ACESSOS

A adutora prevista abastecerá o distrito de Feiticeiro, no município de Jaguaribe, localizado a aproximadamente 20 km da fonte hídrica do projeto, o rio Jaguaribe,

sendo a captação situada próxima ao distrito de Mapuá, também pertencente ao citado município

O acesso ao distrito de Feiticeiro é feito, a partir de Fortaleza, através da BR-116 até a sede municipal de Jaguaribe e, a partir daí, pela CE-275

A Figura 2 1 - mapa de localização e acesso, apresentado a seguir, mostra a localização do distrito de Feiticeiro em relação a fonte hídrica do projeto

O caminhamento da adutora procurou acompanhar, sempre que possível, a estrada carroçável que liga o distrito de Mapuá a Feiticeiro

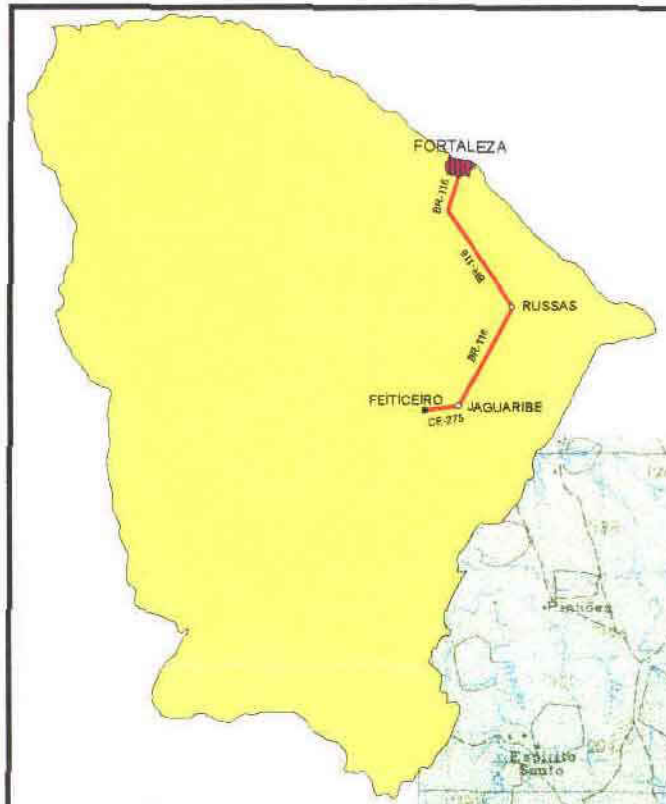
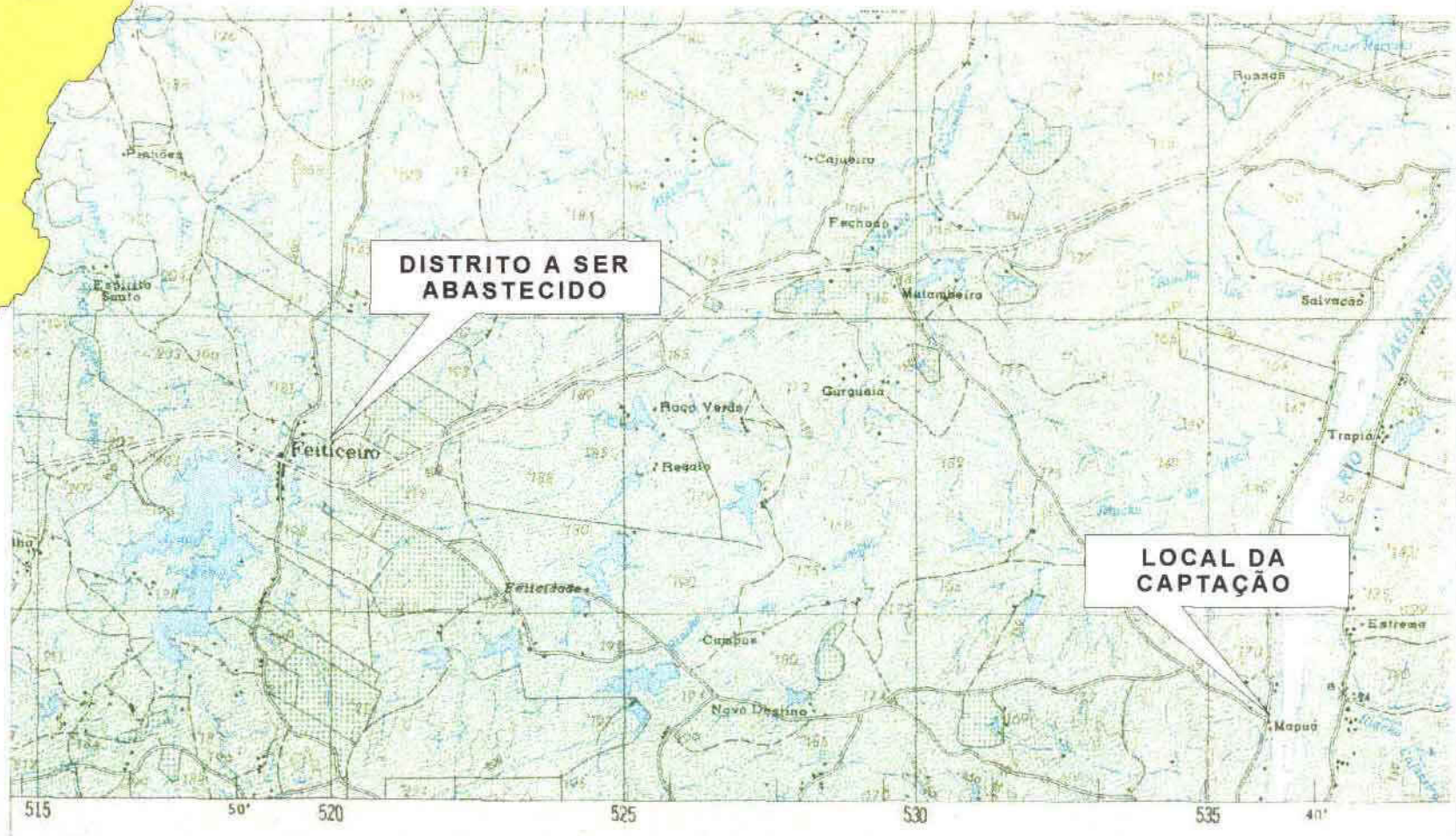


FIGURA 2.1

MAPA DE LOCALIZAÇÃO E ACESSO



3 - LEVANTAMENTO TOPOGRÁFICO

3 1 - SERVIÇOS EXECUTADOS

Os serviços constantes do levantamento topográfico da adutora de Feiticeiro foram executados de acordo com o especificado a seguir

3.1.1 - Locação do Eixo

A locação do eixo foi feita com o emprego do teodolito Wild T-16, e as medidas lineares foram feitas com a utilização de trenas de fibra de vidro

O eixo foi piqueteado normalmente de 20 em 20 metros, bem como todos os pontos notáveis, tais como PI's, acidentes topográficos, cruzamentos com estradas, margens de rios e córregos, etc Em todos os piquetes implantados, foram colocadas estacas-testemunha construídas de madeira resistente com cerca de 60 cm de comprimento, providas de entalhe, onde se escreveu à tinta a óleo, de cima para baixo, o número correspondente Estas estacas foram localizadas sempre à esquerda do estaqueamento no sentido crescente de sua numeração e com o número voltado para o piquete Os piquetes correspondentes a cada 1 km das tangentes longas e o PI's foram amarrados por "pontos de segurança", de tal maneira que seja vista a amarração anterior ou posterior

As medidas de distância foram feitas à terra, segundo a horizontal, para efeito de localização dos piquetes da linha de locação

3.1.2 - Nivelamento e Contranivelamento do Eixo de Locação

O nivelamento e contranivelamento de todos os piquetes do eixo de locação foram feitos com o emprego de nível Wild NAK-O automático Para controle do nivelamento e contranivelamento foram implantadas referências de nível (RN) estáveis, espaçadas a cada quinhentos metros, devidamente referidas nas plantas em relação ao estaqueamento de locação Estas referências (RN) foram implantadas fora da linha do "**eixo**" e são constituídas de marcos de concreto com a inscrição do número correspondente

No nivelamento e contranivelamento do eixo locado foram feitas visadas com mais de 120 m de distância entre os pontos a ré e a vante O nível otico foi posicionado a meia distância entre os dois pontos a ré e a vante para eliminar os efeitos de refração atmosférica e da curvatura da terra O nivelamento e contra foram fechados em cada marco da rede de RNs.

O contranivelamento foi fechado nos RNs, com a tolerância admitida pelas normas da SRH

Foi obedecida a tolerância dos serviços de nivelamento especificadas pela SRH, que determina o valor igual a 2 cm por quilômetro e a diferença sendo inferior ou igual à obtida pela fórmula

$$e = 12{,}5\sqrt{n}$$

sendo

n = em quilômetros,

e = em milímetros

A referência de nivel foi referida a uma cota IBGE, localizada na BR-116, à margem direita do trecho Jaguaribe-Icó, a aproximadamente 15 km de Jaguaribe O RN 1 694 T, com altitude principal de 145 944, foi utilizado para o transporte de cota para a adutora de Feiticeiro, cuja estaca zero possui cota de 121 420

3.1.3 - Seções Transversais

As seções foram levantadas com nível Wild NAK-O automático Nos trechos em tangentes foram levantadas seções transversais em estacas alternadas, isto é, a cada 40 metros, identificado a topografia do terreno por 15 metros de cada lado

Nos trechos em curva foram levantadas seções nos PI's

3.1.4 - Amarrações e RN's

Todos os PI's foram amarrados em V, fora da faixa, atraves de piquetes de madeira

As tangentes longas também receberam amarrações espaçadas de no máximo 1 000 metros

Para a implantação da rede de RN's, estas obedeceram a um espaçamento máximo de 0,5 km, sendo utilizados, quando necessário, pontos notáveis e fixos em rocha Os mesmos foram amarrados ao "eixo" através de ângulos e distâncias

As cotas de partida do nivelamento e contranivelamento iniciaram no marco do IBGE, RN 1 694 T

3.1.2 - Anotações

As cadernetas de campo foram preenchidas com caneta esferográfica preta, sem rasuras, e foram calculadas no escritório por auxiliares de engenharia

Apresenta-se a seguir as cópias das cadernetas de campo referentes ao nivelamento e contranivelamento do transporte de cotas do RN 1 694 T, localizado na BR-116 para a adutora de Feiticeiro, locação do eixo da adutora, nivelamento e contranivelamento do eixo da adutora e nivelamento das seções transversais

3.2 - CADERNETAS DO NIVELAMENTO DO TRANSPORTE DE COTAS

nivelamentos DO TRANSPORTE DE COTAS DO P/ 1694 T BR 116/ADUTORA 2 PAG 01

FEITICISLAO

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
BN 1694T	3960	149904			145944	
AUX 1				0672	149232	
" "	3985	153207				
" 2				0316	152904	
" "	3980	156884				
" 5				0238	156646	
" "	3988	160634				
" 4				0002	160632	
" "	3739	164371				
" 5				1551	162820	
" "	0545	163365				
" 6				3423	159942	
" "	0228	159470				
" 7				2365	157105	
" "	2055	159160				
" 8				0350	158810	
" "	2919	161729				
" 9				0189	161540	

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000017

nivelamentos

PAG. 02

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
Qux 9	3678	165218			161540	
" 10				0071	165147	
" "	3843	[illegible]				
" 11				0059	168931	
" "	2639	171570				
" 12				2379	169191	
" "	0492	169683				
" 13				3644	166039	
" "	0287	166326				
" 14				[illegible]	165996	
	0517	[illegible]				
" 15				[illegible]	165[illegible]	
" "	3825	164664				
" 16				0096	164568	
" "	3793	168361				
" 17				[illegible]	168276	
" "	2341	170617				
" 18				0179	170438	

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000018

nivelamentos

PAG 03

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
AUX-18	3952	174390			170438	
" 19				0348	174142	
" "	3559	177701				
" 20				0063	177638	
" "	3965	181603				
" 21				0060	181543	
" "	1117	182660				
" 22				4000	178660	
" "	0159	178819				
" 23				3219	175600	
"	1171	176771				
" 24				0569	176202	
" "	0099	174301				
" 25				0698	173603	
" "	1068	172671				
" 26				3988	168683	
" "	0016	168699				
27				2372	166327	

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nivelamentos

PAG 04

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
AL X 27	0450	166777			166327	
" 28				37 62	163015	
" "	0029	163044				
" 29				37 55	159289	
" "	0080	159369				
" 30				38 45	155524	
" "	0012	155536				
" 31				38 47	151689	
" "	0007	151696				
" 32				39 29	147767	
" "	0090	147857				
" 33				39 [illegible]	144057	
" "	0031	144088				
" 34				37 04	140384	
" "	0109	140593				
" 35				39 70	136552	
" "	0931	140484				
" 36				0 [illegible] 95	129989	

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000020

nivelamentos

PAG 05

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
AUX 36	2969	143958			139989	
" 37				0140	143818	
	2963	144781				
				3701	141380	
	2467	144848				
38				3358	141484	
	0810	142294				
39				2886	139408	
	0050	139457				
40				3270	136185	
" "	3003	139196				
" 41				3273	135923	
" "	0093	135316				
42				3707	131609	
" "	0073	131682				
" 44				3910	127772	
"	0279	128044				
" 45				3419	124625	

MOD ROMITEC REF 1009

nivelamentos

PPR 06

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
PLX 45	1892	126514			124622	
" 4A				1354	125160	
"	0242	125402				
" 4B				1334	123915	
" "	1402	125227				
0-0				3800	121420	ESTACA ZERO IA ADUTORA DE FEITICEIRO

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3.3 - CADERNETAS DO CONTRANIVELAMENTO DO TRANSPORTE DE COTAS

CO TAP

nivelamentos DO TRANSPORTE DE REFERENCIA DE NIVEL VERDADEIRO (BR116) RN 1694T FIADUTORA / FEITICESIA

PAG 01

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
616 24-T	3250	148794			145944	
RN 1				2851	149233	
" "	3[illegible]	152112				
" "				2[illegible]13	152915	
" "	5572	156777				
" 3				0130	156647	
" "	3090	160637				
" 4				0003	160634	
"	3640	164274				
" 5				1452	162824	
" "	4250	163074				
" 6				3[illegible]	159246	
" "	0431	159377				
" 7				2266	157111	
" "	2155	159266				
" 8				0451	158815	
" "	3020	161835				
" 9				0290	161545	

MOD ROMITEC

CONFA

nivelamentos

PAG 02

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
AUX - 9	3780	163325			161545	
" 10				0172	165153	
" "	3940	169093				
" 11				0555	168535	
" "	2540	171478				
" 12				2283	169195	
" "	0392	169587				
" 13				3545	166042	
" "	0185	166227				
" 14				3228	162999	
	0571	163579				
				0170	163542	
	3980	164762				
" 16				0190	164572	
" "	3800	168372				
" 17				0093	168279	
"	2440	170719				
" 18				0280	170439	

CONIRE
nivelamentos

PAG 23

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
AUX 18	3830	174288			170439	
" 19				01146	174142	
" "	3660	177802				
" 20				01164	177638	
" "	3970	181602				
" 21				00644	181544	
" "	1015	182562				
" 22				3902	178660	
" "	0160	178820				
" 23				3220	175600	
" "	1070	176670				
" 24				[illegible]	174570	
" "	0190	174390				
" 25				2790	171600	
" "	0970	172570				
" 26				3890	168680	
" "	0117	168797				
" 27				2472	166325	

MOD ROMITEC REF 1009

000026

CONTRA

nivelamentos

PAG 04

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
AUX+27	0850	166675			166325	
" 28				3661	162614	
"	0130	162144				
" 29				2533	159599	
" "	0300	159499				
" 30				3965	155534	
" "	0112	155646				
" 31				3948	151682	
" "	0017	151765				
" 32				3940	147765	
"	0130	147925				
" 33				3910	144015	
" "	0130	144155				
" 34				3805	140350	
" "	0040	140390				
" 35				3870	136520	
" "	3230	140520				
" 36				0395	139925	

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CENTRO

nivelamentos

PAG 05

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
AUX 36	3270	143855			139985	
" 37				0040	143815	
" "	2164	145979				
" 38				3602	142377	
"	2360	144737				
" 39				3256	141481	
" "	0721	142502				
" 40				2797	139405	
"	0200	139605				
" 41				3420	136185	
	2910	139095				
" 42				3875	135220	
" "	0100	135300				
" 43				3715	131605	
" "	0050	131685				
44				3917	127768	
" "	2370	128138				
45				3520	124618	

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000028

CONTRC

nivelamentos

PAG 06

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
AUX 45	1990	126465			124615	
" 46				12556	125156	
	0165	125321				
47				15017	123814	
" "	1400	126214				
0+0				37997	121417	

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3.4 - CADERNETAS DE LOCAÇÃO DO EIXO DA ADUTORA

nivelamentos [illegible] EIXO DA [illegible] [illegible] [illegible] FOLHA 01

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas
0	2940	102940			100000
1			2335		100605
2			1702		101238
3			[illegible]		[illegible]
4			[illegible]		[illegible]
5			1545		[illegible]
6			1849		101091
7			1592		101348
8			1613		101327
9			2217		[illegible]
10			3653		99292
11			3696		[illegible]
12			3746		99194
13			3787		99153
14			3895		99045
15			3940		99000
15+14,0			3270		99670
16				1598	101342

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observações

[illegible] DA ARMANET [illegible] [illegible]

[illegible]

nivelamentos

PAG 02

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
16	3306	104645			101344	
17			1398		103250	
18			1663		102982	
19				0201		
"	3018	105848				
20			2422		105967	
21			1627		106762	
22				0354	108025	
"	1[illegible]	109304				
23			1[illegible]		108824	
24				1040	107[illegible]	
"	0[illegible]	102072				
25			[illegible]		[illegible]	
26+13,0			[illegible]		[illegible]	
25			402		[illegible]	
RN 01				1474	[illegible]	LEITURA DE FUNDO
	[illegible]	[illegible]				RN 01 SOBRE [illegible] A ESQUERDA
[illegible]					[illegible]	DA ESTACA 25 DE EIXO DA DIRETRIZ
[illegible]				[illegible]	[illegible]	

MOD ROMITEC REF 1009

nivelamentos

PAG 03

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]					[illegible]	
	[illegible]	[illegible]				
[illegible]					[illegible]	
[illegible]		[illegible]	[illegible]		113332	
			[illegible]		113082	
				[illegible]	[illegible]	
[illegible]	[illegible]	112117				
[illegible]			[illegible]	[illegible]	114290	
[illegible]			[illegible]		115[illegible]	
[illegible]		[illegible]		03115	116209	
	[illegible]	120711				
			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
	[illegible]	[illegible]				
			[illegible]		[illegible]	
[illegible]				00[illegible]	124473	
[illegible]	[illegible]	128099				
[illegible]			[illegible]		[illegible]	
36				0404	[illegible]	

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nivelamentos

PAG 24

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
36					137995	
[illegible]	[illegible]	131942				
[illegible]			[illegible]		130[illegible]	
[illegible]		[illegible]		[illegible]	131666	
[illegible]	[illegible]	135516				
[illegible]			[illegible]		133151	
[illegible]				[illegible]	135456	
	[illegible]	139756				
[illegible]			[illegible]		135[illegible]	
[illegible]			[illegible]		137[illegible]	
[illegible]				[illegible]	139251	
[illegible]	[illegible]	143251				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	143168	
	[illegible]	146456				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

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000034

nivelamentos

DOC 05

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observaçoes
47				0698	1452,58	
48	[illegible]	149697				
49			[illegible]		144,279	
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				0200	149,295	
[illegible]	970/153265					
51			[illegible]		[illegible]	
52			1588		[illegible]	
RN-2			1760		[illegible]	
AUX				0170	153,095	
[illegible]	3572	16507				
[illegible]					[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			1400		[illegible]	
56			1106		[illegible]	
57			[illegible]		[illegible]	
58				[illegible]	[illegible]	

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nivelamentos

PAG 26

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
5	0,60	154,104				
6						
					150,254	
7	0,233	154,547				
51						
NCL				0,574	146,577	
14	0,076	146,653				
62						
NCX				2,091	144,672	
2	0,061	146,733				
NCL						
65			1,615			
14 X				2,472		

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	

observações

nivelamentos

[illegible]

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
			[illegible]		[illegible]
			[illegible]		[illegible]
					[illegible]
			[illegible]		[illegible]
			[illegible]		[illegible]
[illegible]	[illegible]		[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
	[illegible]	[illegible]			
			[illegible]		[illegible]
[illegible]					[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]

MOD ROMITEC REF 1009

observações

[illegible]

[illegible]

[illegible]

000038

nivelamentos

DIA 29

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observaçoes
			intermediária	mudanca		
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	3936	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]			
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante		cotas
			intermediária	mudança	
[illegible]		[illegible]	[illegible]		106.135
[illegible]			[illegible] 4		106.[illegible]
[illegible]			[illegible]		[illegible].160
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible] V-4			[illegible]		[illegible]
111					107.140
[illegible]	1174	109.[illegible]			
112			1.230		[illegible]
11[illegible]			[illegible]		106.[illegible]
11[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
11[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		10[illegible]
11[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			2970		[illegible]
2[illegible]			4180		104142

MOD. HOMITEC REF 1009

PAG. 10

observações
RN° 3 CORM. DIANTE DA [illegible]
10[illegible] 2.300 m

2

000040

nivelamentos

PAG 11

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		[illegible]	[illegible]		104 952	
[illegible]			[illegible]		105 [illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]		[illegible]	104 422	
[illegible]	[illegible]	107 992				
120			[illegible]		105 229	
122			[illegible]		[illegible]	
[illegible]			[illegible]		105 334	
[illegible]			[illegible]		[illegible]	
KM 4			1 811		[illegible]	KM 4 NA RODOVIA [illegible]
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]						
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
137					105,[illegible]	
AK	2,[illegible]0	10,[illegible]57				
1[illegible]			[illegible]		10[illegible]	
1[illegible]					106,[illegible]	
1[illegible]			[illegible]		10[illegible]	
141			[illegible]		107,[illegible]	
142			[illegible]		107,[illegible]	
143			1[illegible]51		107,[illegible]	
144			1[illegible]		107,[illegible]	
145			1[illegible]1		107,[illegible]	
146			[illegible]		10[illegible]	
					10[illegible]	
	[illegible]	11[illegible]27				
1[illegible]			[illegible]		[illegible]	
14[illegible]			1[illegible]		[illegible]	
15D			17[illegible]		[illegible]	
PN° 6			14[illegible]		[illegible]	PN [illegible] 15 LADO ESQ [illegible] 20 m [illegible]
151			1[illegible]		[illegible]	
15[illegible]				PAI	11[illegible]	

MOD ROMITEC REF [illegible]

nivelamentos

P 15 13

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
152					111216
XX	2.42	113.161			
153			2.10		[illegible]
154		[illegible]		[illegible]	114562
	3.02	110.150			
					112.105
					112.[illegible]
					112.[illegible]
[illegible]					112.[illegible]
			[illegible]		116.[illegible]
					[illegible]
					[illegible]
					[illegible]
		11[illegible]			
					11[illegible]
					11[illegible]
					11[illegible]
					11[illegible]
					11[illegible]
					[illegible]

MOD ROMITEC REF 1009

observações

000043

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
[illegible]		[illegible]		[illegible]	[illegible]	
		[illegible]				
[illegible]			[illegible]		[illegible]	
					[illegible]	
					[illegible]	
162+12,2					[illegible]	LEITO ESQUERDA
					[illegible]	
					[illegible]	
[illegible]					[illegible]	
[illegible]					[illegible]	
					[illegible]	
172+12					[illegible]	LEITO DIREITA
				[illegible]	[illegible]	
		[illegible]				
[illegible]					[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]		[illegible]				
[illegible]					[illegible]	
[illegible]				[illegible]	[illegible]	

MOD ROMITEC REF 1009

// nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
182+9.0					
189+12.2					

MOD ADMITEC REF 009

PAG 15

observações

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
[illegible]					[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
-10			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
+10,8			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
100+50					[illegible]
[illegible]				[illegible]	123 [illegible]
	[illegible]	[illegible]			

MOD. ROMITEC REF. 009

observações
[illegible]
[illegible]
L. [illegible]

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
7			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
+50			[illegible]		[illegible]
[illegible]			4		[illegible]
			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
					[illegible]
[illegible]				[illegible]	[illegible]
	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]

MOD. ROMITEC REF. 003

observações
[illegible] GROTA

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
						L. GROTA

MOD. POMITEC REF. 029

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
+65						L GROTA

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observacões
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]		[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]		
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	

MOD. PONTEC [illegible]

nivelamentos

estações	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]

observações
[illegible]
L. [illegible]
[illegible]

000051

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
						L GROTA

MOD ROMTEC REF 209

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	

MOD ROMITEC REF 1209

observações

000053

nivelamentos

PAGE

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
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[illegible]				[illegible]	[illegible]
[illegible]					
[illegible]					
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]

observações

000054

// nivelamentos

es acas	visadas a re	altura do instrumento	visadas avante		cotas	observacoes
			intermediaria	mudanca		
[illegible]		144289	[illegible]		143479	
[illegible]			2003		141256	
[illegible]				[illegible]	[illegible]	
[illegible]	195[illegible]	[illegible]1759				
[illegible]110			[illegible]		139[illegible]	LEITURA DE FOGO
310			[illegible]715		140[illegible]	
[illegible]11			13[illegible]		140 371	
[illegible]12			[illegible]		139 [illegible]	
313			2254		139 [illegible]	
[illegible]1[illegible]			1613		140 [illegible]	
1[illegible]				[illegible]	[illegible]	
11	[illegible]	[illegible]				
			[illegible]		[illegible]	
[illegible]16			[illegible]		[illegible]	
[illegible]17			15[illegible]		143[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]1[illegible]			[illegible]		14[illegible]	
[illegible]13			11[illegible]		14[illegible]	

000055

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
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[illegible]			[illegible]		[illegible]
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[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]

MOD ROMTEC REF 1009

observacões

000056

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
BVVK		150[illegible]		0,56[illegible]	14[illegible]	
VA	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			1,0[illegible]		[illegible]	
RN°10			[illegible]		[illegible]	A DERIVA DA ESTACA [illegible]
BVX				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			16[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		154,161	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

VOO ROMITEC REF 1009

nivelamentos

PAG. [illegible]

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
2.04		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
2.46			[illegible]		[illegible]	
2.67		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	LEITURA [illegible]
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	1.13[illegible]	[illegible]				
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
3.59			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
2.67			[illegible]		[illegible]	

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000058

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
3151		157598	21107		148491	
3153			27773		147825	
3155			21230		147362	
+ 7.0			49230		146 [illegible]	LEITO DE [illegible]
3154			27733		147 [illegible]	
3155			27730		147863	
3156				22325	147 [illegible]	
AK	2492	150,207				
3157			26070		147207	
3158			44170		146 [illegible]	
+ 2.2			44220		146 180	LEITO DE [illegible]
3159			2226		147 [illegible]	
3160			2[illegible]		147 [illegible]	
3161			1671		149 [illegible]	
3162			[illegible]		146 367	
AUX				2[illegible]	159 [illegible]	
AK	2985	154504				
3173			[illegible]		15[illegible] 622	
3174			2459		15[illegible]	

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nivelamentos

PAG 20

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
275		154.564	1.620		152.875	
276				0.3713	154.191	
11	2.593	156.716				
277			1.620		155.096	
278			1.350		155.366	
279=P1			1.372		155.365	
280			1.640		155.076	
281			2.022		154.694	
282			1.620		155.096	
283			0.950		155.764	
284			1.790		154.926	
285			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			4.990		[illegible]	[illegible]
287			2.[illegible]		153.[illegible]	
288			2.912		153.799	
289				1.715	154.972	
11	2.853	157.[illegible]				
290			1.110		156.[illegible]	

MOD. POMITEC REF. 1004

000060

Nº 04

nivelamentos

Pág 31

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
391		[illegible]	1149		[illegible]	
2+19			1440		[illegible]	
393			[illegible]		[illegible]	
394			[illegible]		[illegible]	
395			4000		[illegible]	
396			[illegible]		[illegible]	
397			3446		[illegible]	
+8,0			[illegible]		[illegible]	LEITO GROTA
398			[illegible]		[illegible]	
399			[illegible]		[illegible]	
400			[illegible]		[illegible]	
-5,4			[illegible]		[illegible]	LEITO DE CRIMA
401			[illegible]		[illegible]	
-5			[illegible]		[illegible]	LE
402				1650	[illegible]	
		[illegible]				
			[illegible]		[illegible]	
					[illegible]	
			[illegible]		[illegible]	

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000061

nivelamentos

PAG 35

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações

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nivelamentos

PAG

estacas	visadas a ré	altura do instrumento	visadas avante: interm diária	visadas avante: mudanca	cotas	observações
						BALKA

MOD ROMITEC REF 1009

nivelamentos

PAG 24

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
437+15.4		154.036	4.605		149.836	LEITO DE GROTA
437			4.000		150.036	
[illegible]			[illegible]		150.111	
[illegible]			4.157		149.936	
[illegible]			4.300		149.836	
441			4.310		149.716	
442			3.317		150.116	
443			3.413		150.573	
444			3.017		151.979	
445			3.116		151.870	
446			[illegible]		[illegible]	
447			[illegible]		[illegible]	
448				[illegible]	[illegible]	
[illegible]	0.895	154.716				
449			0.565		154.151	
450			1.160		153.516	
451			1.583		153.133	
452			1.516		153.247	
453			[illegible]		[illegible]	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		151,606
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]		[illegible]		[illegible]
450			[illegible]		151,395
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
463			1650		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]					[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			

MOD ROMITEC REF 1009

observações

LEITO DE GROTA

nivelamentos

PAG

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
460		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
24	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	

MOD ROMITEC REF 1009

000066

nivelamentos

PAG [illegible]

estacas	visadas à re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				

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000067

nivelamentos

PAG 3[illegible]

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
4[illegible]		159[illegible]	[illegible]		155[illegible]	
4[illegible]8			1[illegible]		15[illegible]	
4[illegible]				[illegible]	[illegible]	
[illegible]	12[illegible]	[illegible]				
17.8			[illegible]		15[illegible]	
[illegible]			2[illegible]		15[illegible]	
5[illegible]1			[illegible]		155[illegible]	
5[illegible]2			16[illegible]		155[illegible]	
[illegible]3			[illegible]		154[illegible]	
5[illegible]4			[illegible]		15[illegible]	
[illegible]			[illegible]		155[illegible]	
5[illegible]5			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
5[illegible]			[illegible]		15[illegible]	
5[illegible]9			[illegible]		15[illegible]	
[illegible]0			[illegible]		15[illegible]	
[illegible]0					15[illegible]	
5[illegible]1			[illegible]		15[illegible]	
[illegible]2				[illegible]	[illegible]	

MOD ROMITEC REF 1009

LIG

000068

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudanca	cotas	observações
518	0992	157117			156125	
519			1615		156030	
[illegible]			3159		154979	
[illegible]			[illegible]		151317	
[illegible]			[illegible]		153297	
[illegible]			3765		154313	
515				1149	155968	
[illegible]	3338	159306				
519			1625		157[illegible]	
55[illegible]			1325		157[illegible]	
524 510			1916		157[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	155786	
[illegible]	[illegible]	152078				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	157[illegible]	

ROMITEC REF 1009

000069

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações PAG. 40
525	551	161140			157890	
526			2065		159075	
527			1316		159824	
528			1450		159691	
529			2372		159269	
529+13,0			3321		157571	L. ESQ.
530				5417	157854	
"	2431	160285				
530+18,5			4303		155982	L. D
531			4080		156205	
532			3326		156959	
533+7			3[illegible]		156[illegible]	
533			3[illegible]		157[illegible]	
534				0351	159784	
"	2055	162010				
535			2337		161682	
535				0425	161585	
"	2912	163341				
537			2[illegible]		165[illegible]	

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Nº 05

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
538		167341		0625	166646
"	1129	167775			
539			0390		167385
540			0402		167373
541			1121		166654
542				3403	164372
"	0530	164902			
543			1265		163137
544			2687		161715
545			2542		160860
546				3095	160407
"	0446	160853			
547			2972		157881
RVX				3930	157687
"	0338	157021			
548				2552	154469
548+80				3970	153051
548+100				3290	152731
549				4008	153013

MCD ROMITEC REF 1009

observações PAG. 41

9.

COMPTA

LEITO DA RACHO

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações PAG 42
550		152021	3406		153615	BARRA ESQ DO RIACHO
551				1197	155824	
"	1425	156272				
RN 11				3724	158748	RN-11 A BROCK A ESQUERDA DA EST 550 SOBRE ROCHA
551	3479	159803			155824	
552			2341		157462	
553				0418	159385	
"	5773	163358				
554			2144		161214	
555				0210	163148	
	5010	164992				
556			1854		165143	
557			1944		166048	
558				0259	166738	
"	3697	170435				
559			3579		167856	
560			1400		169035	
561			1555		168880	

MCD ROMITEC REF 1009

000072

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
560		170535	2072		168357	PAG. 43
[illegible]			1944		168491	
[illegible]			2281		168149	
565				3472	166953	
	0598	167551				
565+17			1990		165561	EIXO DE ESTRADA CARROCAVEL
566			1937		165614	
566+10,0			3933		163618	
567			3452		164099	
567+10,0			4050		163501	
568			2820		164731	
569			1908		165643	
570			3359		164192	
570+2,0			3594		163957	
571				1163	166838	
	3953	170341				
572			2380		167961	
573				1057	169284	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas até	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
573	3989	173266			169284	PAG.44
573+215			4170		169096	
574			2181		171085	
575				0638	172627	
"	357	176202				RN-12 SOBRE ROCHA A 3,7m DA 575 NO EIXO DA ADUTORA
RN-12			3105		173097	
576			2575		173627	
577			2699		173510	
578			2982		173285	
578+4,8			3922		172950	
579			3		172943	
580			1431		174711	
581			1009		175600 *	
581+213			1014		175188	
582			1299		174903	
583			1743		174459	
584			2537		173665	
584+3,0			3714		173488	EIXO DE ESTRADA PARALELAVEL
585				3750	172428	

MOD RCMITEC REF 009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
585	0182	172664			172482
5[illegible]			1756		170908
[illegible]			3249		169415
5[illegible]				3860	168804
[illegible]	0297	169101			
5[illegible]			1038		168063
590			1452		167649
591			2349		166752
592			3089		166012
593				3472	165539
[illegible]	0215	165754			
593+18[illegible]			2584		165[illegible]
594			2191		163857
595			2284		163764
596			2479		163569
597			2690		163356
598			2655		163393
599			2483		163565
600				2088	163960

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observações PAG. 45
LEITO DA GROTA

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
600	1571	163531			163960
5+17,3			1258		162273
601			1406		161125
602				3895	161636
	0162	161798			
602			1646		160152
604				3210	158588
	0393	158981			
604+8,0			1440		157541
605			2269		156772
606			3440		155541
606+55			4235		154746
607			3131		155850
608			3668		155373
609			3559		155422
610			3855		155126
611			3792		155189
612				3326	155655

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observações PAG 46

RN 13 SOBRE UMA ROCHA A 2,35 DA EST. 600 NO EIXO DA ADUTORA

EIXO DE ESTRADA CARROGAVEL

nivelamentos

PAG.47

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
5 6	0015	155670			155655	
613			1455		154511	
614				3342	158321	
0	0271	158592				
615			1202		157490	
616			1436		157256	
617			2442		156250	
618			0560		158132	
619			3265		149427	LEITO DE RIACHO
620			1667		151025	
621				0962	157357	
	2222	159598				
622			1635		157957	
623			0410		155188	
624			2742		152844	
624+8,5			3377		152215	FGROTA
625			3611		152987	
AUX				1310	155462	

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nivelamentos

PAG 48

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
A.1X	3484	158856			155462	
626			2712		156174	
627			1931		156955	
628			1796		157059	
629			4450		154436	
630-140			3401		155485	
631-173			4415		154471	
632			3690		155196	
633-177			2198		156688	
634				505	157193	
	3996	161130				
635			2000		159649	
636-177			2450		158679	
637			1157		159982	
638-184			2432		158707	
639			1362		159777	
640-170			3785		157354	
641-168			5385		160754	
642			1401		159648	

SR

LOMBADA

SR

SR

LOMBADA

SR

SR

LOMBADA

SR

SR

SR PUE ROCHA

MOD ROMITEC REF 1009

nivelamentos

PAG 02

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
35+10,5		161139	2[illegible]0		159[illegible]
[illegible]				[illegible]	160[illegible]
[illegible]	3[illegible]	164[illegible]			
95[illegible]			3[illegible]3		161157
[illegible]				[illegible]	162929
[illegible]	[illegible]	168922			
237			3[illegible]3		164710
636				0 364	165381
[illegible]	20[illegible]	172296			
[illegible]			16[illegible]0		165796
[illegible]			16[illegible]		165670
[illegible]			16[illegible]		168[illegible]
642				13[illegible]	17[illegible]
[illegible]	3935	170266			
24[illegible]			23 83		170433
2[illegible]			12[illegible]0		171476
16[illegible]			15[illegible]		[illegible]
6[illegible]+15,6			0[illegible]		172121
5[illegible]6			0[illegible]		[illegible] 396

MOD ROMITEC REF 1009

observações

G

RN-16 SOBRE BOCHA 15,65m APOS ESTACA 635 A 0 DIREITA DO EIXO DA PISTA

FIM DA ESTRADA CARROSSAVEL

000079

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
	2487	174014			
651+17,0			3766		171008
652			2965		171741
652+10,0			2834		171820
653			2422		[illegible]
654			1627		[illegible]
655			1025		[illegible]
655+11,0			0875		[illegible]
656				[illegible]	[illegible]
	1438	175650			
657			1030		[illegible]
658			0946		[illegible]
659			1588		174062
660			3027		[illegible]

MCC ROM TEL

AUX

3706 [illegible]

PAG. 50

observações

9c

EIXO 275 ... CARROÇÁVEL

EIXO DE EST. CARROÇÁVEL

Nº 06

nivelamentos

PAG. 51

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	

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000081

nivelamentos

PAG 52

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
675		172396	4120		168276	
[illegible]				12150	171346	
[illegible]	2639	174285				
677			1472		173 [illegible]	
678			1702		173277	
678+143			3292		171693	
679			1914		172071	
680				0225	174760	
[illegible]	[illegible]	175985				
[illegible]			[illegible]		174542	
[illegible]			2400		173585	
[illegible]			[illegible]		[illegible]	
[illegible]			3252		172653	
684+615			3325 600		172467 172660	EIXO DA EST CARROCAVEL
686				1239	[illegible]	
[illegible]	2723	176350				
687			1526		175017	
688			1337		175467	
689				1637	175167	

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000082

nivelamentos

PAG. 53

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
080	0131	175298			175167	
0[illegible]			0967		174331	
0[illegible]			1254		173445	
0[illegible]2				2950	172[illegible]	
	3406	175864				
093			3422		169382	
0[illegible]345,0			2912		169892	
P[illegible]				3705	16[illegible]94	
	3542	169266				
4[illegible]			0622		168244	
[illegible]			2159		167357	
2[illegible]			3[illegible]		[illegible]	
P[illegible]				3782	[illegible]	
	0527	165[illegible]				
097			0902		164603	
097+100			1420		164025	
098			1956		163545	
RN 15			1[illegible]		164521	
105+187			2010		164[illegible]	

MOD ROMITEC REF 1009

9

LOMBADA

9

SOBRE ROCHA 35m A ESQUERDA DA EST 698

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
600		165505	2507		162998	
700			3104		162401	
701			3056		162449	
701+8,0			3201		162304	
702			3030		162475	
703				3602	161905	
"	980	162885				
704			0656		162229	
705			1865		161020	
705+15,5			3590		159273	
706				3734	158539	
"	1470	159915				
707			1807		157468	
708			2800		156469	
709				3890	155479	
"	1091	156570				
710			2428		154142	
711			3156		153414	
712				3814	152756	

EIXO DE EST CARR

EIXO DE EST CARR.

MCD ROMITEC PEF 1009

nivelamentos

PAG 55

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
712	2912	155562			152656	
713			3332		152230	
714			3426		152136	LEITO DE RIACHO
715			2820		152742	
716				0211	152537	
	3615	152972				
717			1242		151730	
718			1180		151792	
719			1619		151353	
720			1222		151750	
721			2321		150651	
722+50			3[illegible]		[illegible]	
723				3411	149561	
	[illegible]	150083				
724			1970		148113	
725			[illegible]		148617	
726			3121		148962	
727+00			3542		148446	
728			3420		148820	

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000085

nivelamentos

PAG 56

estacas	visadas - à re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]		156008	[illegible]		153068	
[illegible]			[illegible]		154140	
[illegible]				[illegible]	155246	
	[illegible]	159182				
[illegible]			[illegible]		155615	
[illegible]			[illegible]		155030	
[illegible]			[illegible]		156372	
[illegible]				[illegible]	158959	
	[illegible]	162362				
[illegible]			[illegible]		161250	
[illegible]			[illegible]		161132	
[illegible]			[illegible]		161832	[illegible]
[illegible]			[illegible]		159428	
[illegible]				[illegible]	158942	
	[illegible]	160004				
[illegible]			[illegible]		155372	
[illegible]			[illegible]		155675	
[illegible]			[illegible]		156957	
[illegible]				[illegible]	159598	

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estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	163497			159590	
[illegible]			[illegible]		161[illegible]	
[illegible]			[illegible]		163[illegible]	
[illegible]			[illegible]		165[illegible]	
[illegible]			[illegible]		165081	
[illegible]			[illegible]		165[illegible]46	
[illegible]				33553	160144	
	[illegible]	160264				
[illegible]			[illegible]		157[illegible]	
[illegible]				[illegible]	157434	
	[illegible]	157[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		154[illegible]	
[illegible]			[illegible]		154[illegible]	
[illegible]			[illegible]		158[illegible]	
75+9,0			[illegible]		15[illegible]	LEITO DO RIACHO
[illegible]			[illegible]		152[illegible]	
[illegible]			[illegible]		154[illegible]	
[illegible]			[illegible]		155[illegible]	

MOD ROMITEC REF 1009

nivelamentos

PAG 56

estacas	visadas a ré	altura do instrumento	visadas avante		cotas
			intermediária	mudança	
[illegible]		157639		0344	157095
[illegible]	3573	160968			
[illegible]			[illegible]		158[illegible]
[illegible]			1332		159[illegible]
[illegible]				0[illegible]	160599
	3965	164566			
[illegible]			1784		162782
[illegible]				0351	164195
[illegible]	3[illegible]	167796			
[illegible]			1232		165[illegible]
[illegible]			[illegible]		165916
[illegible]			[illegible]		167[illegible]
[illegible]			0439		167357
[illegible]			0695		167[illegible]
[illegible]			0971		166827
[illegible]			[illegible]		166685
[illegible]			[illegible]		166[illegible]
[illegible]			[illegible]		166[illegible]
[illegible]				0[illegible]	167[illegible]

observações
[illegible]

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nivelamentos

PAG 59

estacas	visadas a ré	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
760	2874	171 810			167 338	
765			1[illegible]6		167 906	
770			3[illegible]55		165 [illegible]	
[illegible]			[illegible]22		169 035	
[illegible]			1[illegible]32		170 178	
[illegible]				0327	170 883	
[illegible]	2012	174 086				
[illegible]			2201		171 885	
[illegible]			[illegible]		172 651	
[illegible]			0[illegible]		[illegible]	
[illegible]				0[illegible]	173 976	
[illegible]	[illegible]	176 [illegible]				
9[illegible]0			1[illegible]		174 [illegible]	
78[illegible]			[illegible]		174 8[illegible]	
[illegible]			[illegible]		175 [illegible]	
782			[illegible]		175 468 *	
[illegible]			[illegible]		175 44[illegible]	
[illegible]			[illegible]		175 [illegible]	
[illegible]			[illegible]		174 [illegible]	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]		176309		2950	173439	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible] 180			2269		171383	FEIR CARR
[illegible]			[illegible]		171316	
[illegible] 20			[illegible]		170370	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
					[illegible]	
"	1988	174341				
795			1450		[illegible]	
796			1410		173431	
797			1640		[illegible]	
798				2599	[illegible]	
"	0217	[illegible]				
799			1048		[illegible]	

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000090

Nº 07

nivelamentos

PAG 61

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
800		172459	15771		170856	
801			2380		[illegible]	
802				3070	169389	
"	0141	169553				
803			1616		167934	
804			2756		166794	
805			2823		166727	
805+10,0			3702		165848	
RN-18			2958		166592	RN-18 SOBRE UMA ROCHA 16,0M ALEM DA ESTACA 805/ 4,0M A DIREITA DO EIXO DA AZUTORA
806			3196		166354	
807				3771	165779	
"	2727	168[illegible]				
807+8,5			3728		165770	
808			3134		165372	
809			2825		165[illegible]	
810			2100		166406	
811			0663		167543	
812			0362		168138	
813			1172		167334	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
813+9,6				0849	167657	PE DA ROCHA
"	1514	169171				
814+12,2			0422		168722	
813+16,0			1420		167751	SOBRE ROCHA
814			1823		167348	PE/ROCHA
815			3367		165804	
815+3,6			4320		164851	
816			3018		166153	
817				0576	168595	
"	3974	172569				
817+9,6			2053		170516	SOBRE ROCHA
817+18,6			3163		169406	MAIZA
818			3021		169541	
819				1021	171543	
"	3088	174636				
819+19,3			0663		173972	TOPO DE UMA AREIA C/ 1,5 m DE DIAMETRO
820			1400		173271	
821				0214	174422	
"	3303	177725				
822			2569		175156	

MCD ROMITEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
823		177725	2043		175682	
824			1333		176392	
825			1244		176481	
826				2882	176343	
	1347	178190				
826+15,0			1637		176553	EIXO DE EST CORR.
827			1250		176940	
828			1286		177104	
829			1134		177056	
830			1521		176669	
831			2104		176086	
832				2596	175596	
"	0220	175816				
833			1471		174345	
834			2330		173486	
835				3103	172713	
"	0162	173875				
836			1450		172425	
837			4215		168357	

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nivelamentos

PAG 64

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]		[illegible]		3503	165072	
	0643	[illegible]				
532			1232		[illegible]	
[illegible]			[illegible]		165129	
520+6,0			[illegible]		165241	
[illegible]			[illegible]		165296	
[illegible]			[illegible]		165727	
[illegible]				3810	165309	
[illegible]	0277	165[illegible]				
[illegible]			[illegible]		164[illegible]	
[illegible]			[illegible]		164[illegible]	
			[illegible]		165[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	0718	165735				
246			[illegible]		165505	
[illegible]			[illegible]		159676	
[illegible]			[illegible]		165105	
[illegible]			[illegible]		165519	
[illegible]			[illegible]		161217	

MCD ROMITEC REF 1009

FIM DE ESCANHO

000094

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudança		
250		162758	1710		161648	
2			1105		161652	
250+64			1421		161337	1. SEÇÃO
				1350	162486	
"	3518	165924				
			2057		163867	
				2792	165136	
"	3823	169959				
255			1241		167716	
				1515	168420	
	3250	171669				
			1382		168244	
257			1372		170296	
258			1996		170673	
259			1211		170457	
260+90			1112		170453	EIXO DE ESTRADA SARRAPANTEL
261			1176		170392	
261+20				1215	171213	

MCD ROMITEC REF 1009

nivelamentos

PAG 66

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
261+2,0	0,93	170,486			169,213	
			1,3 5		169,091	
5			2,0 0		168,316	
			2,2 7		167,184	
10,0			4,0 3		166,211	L. GROTA
			3,4 5		165,437	
13,0			1,1 8		166,226	L. GROTA
			2,0 9		167,018	
			3,3 1		167,085	
5,5			2,0 0		166,406	L. GROTA
			3,0 1		167,2[illegible]	
			3,0		[illegible]	
19				1,7 3	167,[illegible]5	RIVIS. SOBRE UMA ROCHA 10,7m ALÉM DA ESTACA 869 NO EIXO DA ADUTORA
	0,04	167,979				
870			0,7 8		167,195	
871			1,6 4		166,332	
871+9			2,0 5		165,174	
872+6,0			1,3 0		166,[illegible]	
872+12,0			1,4 0		165,829	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
3[illegible]+17,6		167979	5100		166879	32
225			4370		163625	
224			2442		165537	
223			2391		165588	
222			2500		165479	
221			1930		166047	
220				2379	165.600	
"	0248	165848				
219			0302		164976	
218			1136		164704	
217				3519	163349	
	0250	163599				
221+11,4			4195		166404	DE BARR DIREITO RIACHO
220			1834		164765	GEITO DE HINCAR
219+6,0			3708		164791	DE BARR ESQUERDO
218+9,0			2972		164821	BARR ESQ.
217			2112		162482	
216				1042	163557	

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nivelamentos

PAG. 68

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	3848	167,405			163,557	
[illegible]			2676		164,729	
[illegible]			3382		166,023	
[illegible]				1015	167,375	
"	3401	171,341				
[illegible]			1318		170,043	
[illegible]				0574	171,287	
	2532	173,252				
[illegible]			1996		171,826	
[illegible]			1572		[illegible]	
[illegible]			1352		[illegible]	
[illegible]			1319		[illegible]	
[illegible]			1032		[illegible]	
[illegible]				2692	[illegible]	
"	0507	171,736				
[illegible]96			4516		[illegible]	
[illegible]97			2467		169,269	
[illegible]+150			3510		[illegible]	
[illegible]98			3219		168,517	

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
809		171736	2753		168[illegible]	
[illegible]			[illegible]		168[illegible]	
[illegible]			2638		169[illegible]	
[illegible]			[illegible]		169[illegible]	
[illegible]			2292		169444	SOBRE UMA [illegible] 15M A E=[illegible]
[illegible]			1959		170477	
[illegible]				2200	171516	
"	3970	174095				
[illegible]			3802		171193	
[illegible]			[illegible]		171[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
807				[illegible]	174356	
"	3967	178325				
[illegible]			1816		176[illegible]	
808				0293	178032	
	3974	180106				
[illegible]			[illegible]		180[illegible]	
[illegible]				0447	181559	

MOD. [illegible] TEC

nivelamentos

PAG. 70

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
911	3558	185117			181559	
912			2292		182825	
913				0837	184280	
	3655	187935				
914			2415		185520	
915				1089	186846	
[illegible]	3930	190776				
916			2851		187925	
917			1981		188796	
[illegible]			1258		189518	
[illegible]			1975		189[illegible]	
[illegible]			1825		189951	
[illegible]			1870		188906	
922			1546		189230	
923				1[illegible]	189469	
	1951	191550				
924			1300		189920	
925			1229		189991	
926			1379		189841	

000100

Nº 08

nivelamentos

PAG. 71

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
927		191220	1656		189564	
928			2185		189035	
929			2616		188604	
930			3178		188042	
931				3545	187675	
	0410	188085				
932			0812		187273	
[illegible]			1212		186873	
[illegible]			1560		186525	
[illegible]			1918		186167	
[illegible]			2525		[illegible]	
[illegible]			[illegible]		[illegible]	
934			3365		[illegible]	
935			3985		184823	
936			2803		185205	
937			2400		185685	
938			3150		185935	
939			1812		186273	
940			1293		186792	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
945		188085		0845	187240	
"	1771	189011				
946			1590		187421	
947			1362		187649	
948			1151		187860	
949			0917		188093	
950			0925		188086	
951			1256		187755	
952			1422		187589	
953			1766		187245	
954			1698		187313	
955			1542		187469	1921 50325 EN PIA E/M LESTE DA EST PIE4
956				1755	187055	
"	2399	189454				
957			2255		187199	
958			1442		188012	
959			0863		188591	
960			0617		188837	
961			1418		188036	

MOD ROM'TEC REF 1009

000102

nivelamentos

PAG 73

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
961		189454		2907	186547	
"	0615	186762				
962			2089		184673	
963				3469	183293	
"	0178	183471				
964			1490		181981	
965			3133		180338	
966				3827	179544	
"	0248	179892				
967			1658		178234	
968			3091		176511	
969			4256		175656	
970				3778	176004	
"	0598	176602				
970			1907		174695	
971				3638	172964	
"	0625	172989				
971			1883		171106	
972			4911		168078	

MOD ROMITEC REF 1009

000103

nivelamentos

PAG. 74

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
97 24/25		172089	5995		165 [illegible]	L. GROTA
97 27			4905		163 [illegible]	
97 4			2190		163 [illegible]	
97 5			1315		[illegible]	
97 6			1172		[illegible]	
97 6 4/2.9			1478		171 571	
97 7				1665	171 324	
"	1194	171 518				
97 7			1475		170 043	
97 8			2219		[illegible]	
97 9			3509		[illegible]	
97 7			[illegible]		[illegible]	
97 14 9				1555	168 625	
"	0824	169 307				
98 2			3645		165 [illegible]	
98 3			3436		165 871	
98 4				3342	165 365	
"	0965	166 330				
98 5			1530		[illegible]	

MOD ROMITEC REF 1009

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
995		166330	3532		165798	
[illegible]				5121	163309	
[illegible]	1513	163612				
[illegible]			1453		[illegible]	
[illegible]			1210		162[illegible]	
[illegible]				3499	161[illegible]12	
[illegible]	0607	161820				
979			0706		160[illegible]	
750			0965		160355	
931			1414		[illegible]	
1015			1027		160143	
1015				2[illegible]46	[illegible]	
[illegible]	1463	158255				
1016			1299		157140	
995			1560		156[illegible]37	
996				1520	154807	
[illegible]	2451	155287				
1017				2[illegible]1	153156	

ESTAQUEAMENTO DA CALÇADA DA CASA DO SR JOSE EDMUNDO DA SILVA

CREAMENTO

MOD ROMITEC REF 1009

nivelamentos

PAG 76

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	[illegible]
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
1000			[illegible]		[illegible]	
1000+20			[illegible]		[illegible]	LEITO DE CORREGO
[illegible]	[illegible]		[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]						

MCO ROM TEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
1009		156045	2605		153440	
1010			1792		154253	
1011			1866		154179	
1011+20			1961		154084	
2bx				06217	155968	
	3933	159201				
1012			3326		156275	
1013				04005	159396	
	3825	163219				
1013+10			2711		160508	
[illegible]			2322		[illegible]	
[illegible]+8.0			2927		[illegible]	
[illegible]				01118	163101	
	3795	166896				
1015				03870	166026	
	3474	169500				
1017				13329	169501	
	3295	173117				
1018			1950		171167	

MCD ROMITEC REF 1009

nivelamentos

PAG 78

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
10/A		173117	3259		172258	
7+12			1101		172416	
7+[illegible]			1503		171614	
						SEPE SAIA DE TUBULAÇÃO EM CAIXA DE LIGAÇÃO DE REGISTRO ELEVADO EM 16,5m DO SOLO E TUBO COM CAPACIDADE 1/2 SCOTCH

MOD ROMITEC REF 1009

REFERENCIAS DE NIVEL DA ADUTORA DE FEITICEIRO

RN	DESCRIÇÃO	ALTITUDE
01	SOBRE UMA ROCHA 25,8m A ESQUERDA DA ESTACA 25 DO EIXO	107 498
02	SOBRE UMA ROCHA 11,5m A ESQ. DA EST 57+10,0 DO EIXO	151 497
03	SOBRE UMA ROCHA 5,0m A DIREITA DA EST 81+8,0 DO EIXO	111, 072
04	SOBRE O PIQUEITÃO DA AMARRAÇÃO DO PI DA ESTACA 110	
—	DIREÇÃO 180°00 COM 9,0m DO EIXO	
05	SOBRE O PIQUEITÃO DA AMARRAÇÃO DO PI DA EST 128+13,0 NA	107 714
—	DIREÇÃO DE 180°00 COM 5,0m DO EIXO	
06	SOBRE UMA ROCHA 20,0 A ESQ DA EST 150+15,0 DO EIXO	106 181
07	SOBRE UMA ROCHA 13,4m A DIREITA 6,0m ALEM DA EST 202	110, 343
08	SOBRE UMA ROCHA 15,0m A DIREITA DA ESTACA 162 DO EIXO	139 073
09	SOBRE UMA ROCHA 16,0m A ESQUERDA DA ESTACA 287 DO EIXO	143 617
10	SOBRE UMA ROCHA 20,0m A DIREITA DA 335+10,0 DO EIXO	135 42[illegible]
11	SOBRE UMA ROCHA 0,80m A ESQUERDA DA ESTACA 55[illegible] DO EIXO	107 779
12	SOBRE UMA ROCHA 3,9m DA ESTACA 575 NO EIXO DA ADUTORA	102 [illegible]
13	SOBRE UMA ROCHA [illegible]m DA ESTACA 600 NO EIXO DA ADUTORA	164 273
14	SOBRE UMA ROCHA 2,0m A DIREITA DA ESTACA [illegible] 15,0m DO EIXO	160 715
15	SOBRE UMA ROCHA 2,0m A ESQUERDA DA ESTACA [illegible] DO EIXO	164 021
16	SOBRE UMA ROCHA 2,7m A ESQUERDA DA ESTACA [illegible] 17,0m DO EIXO	161 63[illegible]
17	SOBRE CANTO DA CALÇADA DA CAPELA 2,0m A DIREITA DA ESTACA	
—	[illegible] 113,0m [illegible]	[illegible]
18	SOBRE UMA ROCHA 1,0m A DIREITA DA ESTACA 5[illegible] 11,0m DO EIXO	[illegible]
19	SOBRE UMA ROCHA 10,7m ALEM DA 869 NO EIXO DA ADUTORA	147 [illegible]
20	SOBRE UMA ROCHA 1,5m A ESQUERDA DA ESTACA [illegible] DO EIXO ADUTORA	169 444
21	SOBRE UMA ROCHA 2,1m A ESQUERDA DA ESTACA 144 DO EIXO ADUT	187 463
22	SOBRE CANTO DA CALÇADA DA CASA DO [illegible] COMERCIO DA	
—	SILVA 1,0m A DIREITA DA ESTACA 988 DO EIXO DA ADUTORA	167 402
23	SOBRE SAPATA DE CONCRETO SOB CAIXA D'AGUA DO DISTRITO DE FEITICEIRO	112 016

3.5 - CADERNETAS DO NIVELAMENTO DO EIXO DA ADUTORA

locação DO EIXO DA ADUTORA DE MAPUA/FEITICEIRO PAG 01

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
N.M			0.00				
0							[illegible]
1		[illegible]	29[illegible] AZ				
2		[illegible]	"				
3		60.0	"				
4		[illegible]	"				
5		100.0	"				
6		120.0	"				
7		140.0	"				
8		160.0	"				
9		180.0	"				
10		200.0	"				
11		220.0	"				
12		240.0	"				
13		260.0	"				
14		280.0	"				
15		300.0	"				
15+	14.0	314.0	"				DE DE BARRE[illegible] ESS R[illegible]
16		320.0	"				BARR ESS [illegible]
17		340.0	"				
18		360.0	"				
19		380.0	"				BARRO DE E TR[illegible] CARR

MOD ROMITEC REF 1004

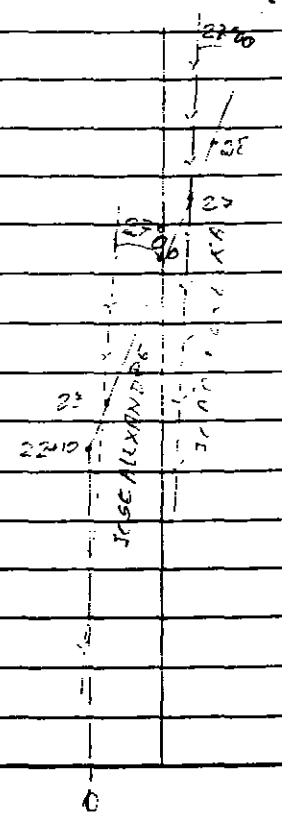
000111

locação

PAG 28

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
[illegible] +	4.0	384.0	299°20'AZ				[illegible]
20		[illegible]	"				
[illegible]		[illegible]					
[illegible]		[illegible]					
22 +	10.0	450.0	"				
R 0		450.0	0°00				
22 +	10.0						
[illegible]		[illegible]	39°00				
"		[illegible]	180°00				
" 23		1[illegible]0	[illegible]				C. LIMITE [illegible]
24		30.0	"				[illegible]
24 +	13.0	[illegible]	"				LEITO DE [illegible]
25		[illegible]					
26		[illegible]	"				
27		90.0	"				C. LIMITE IRRO JOSE ALEXANDRE
28		110.0	"				C/JOÃO TEREZA
29		130.0	"				
30		150.0	"				
31		170.0	"				
32		190.0	"				

MOD ROMITEC REF 1004



0

000112

locação

PDG nº 2

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
33		210.0	60°00'				
34		230.0	"				
35		250.0					
36		270.0					
37		290.0	"				
38		310.0	"				
39		330.0	"				
40		350.0	"				
41		370.0	"				
42		390.0					
43		410.0					
44		430.0					
R 22 + 16.0		22.0	[illegible]				
A 23							
V EM		5.0	90°00'				PROJEÇÃO
"		5.0	270°00				"
45		20.0	180°00'				
46		40.0	"				
47		60.0	"				
48		80.0	"				

MOD ROMITEC REF 1004

000113

locação

PDG 04

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
49		[illegible]	[illegible]				
50		[illegible]					
[illegible]		[illegible]	"				
52		160,0	"				
53		[illegible]	"				
54		200,0	"				
55		220,0	"				
56		[illegible]	"				
57		[illegible]	"				
58		[illegible]	"				
R 44		280,0	[illegible]				
58							
AN		50	[illegible]				
AM		50	[illegible]				
59		200	[illegible]				
60		40,0	"				
61		[illegible]	"				
62		[illegible]					
63		100,0	"				
64		120,0	"				
65		140,0	"				

MOD ROMITEC REF 1004

locação

PAG 05

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
66		160.0	195°00				
67		180.0	"				
68		200.0	"				
69		220.0	"				
69 + 1.7		240.0	"				LEITO DE GROTA
70		260.0	"				
71		280.0	"				
72		300.0	"				
73		320.0	"				
74		340.0	"				
75		360.0	"				
76		380.0	"				
77		400.0	"				
78		420.0	"				
79		440.0	"				
80		460.0	"				
81		480.0	"				
82		500.0	"				
83		520.0	"				
84		540.0	"				
85		560.0	"				BAIXA
86		580,0	"				

MOD ROMITEC REF 1004

locação

PIS 26

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lido	calculados	
87		600,0	195°00				
88		620.0	"				
89		640.0					
90		660,0	.				
91		680.0					
92		700,0	"				
93		720,0	"				
94		740.0	.				
95		760 0	,				
96		780 0	,				
97		800.0					
98		820,0	.				
99		840 0					
100		860 0					
101		880 0	,				
102		900 0	,				
103		920 0	"				
104		940 0					
105		960 0					
106		980 0	,				
107		1000,0	"				
108		1020 0	"				

MOD ROMITEC REF 1004

locação

PAG 07

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
109		1540.0	105°00				
109 + 16.0		1556.0	"				EIXO DE ESTRADA [illegible]
110		[illegible]	"				
58		1560.0	[illegible]				
110							
AM		9.0	37°00				
AM		9.0	180°00				
111		20.0	217°00				
112		40.0	"				
113		60.0	"				
114		[illegible]	"				
115		[illegible]	"				
116		[illegible]	"				
117		[illegible]	"				
118		1660.0	"				
119		[illegible]	"				
120		2000.0	"				
121		2200.0	"				
121 + 8.0		2280.0	"				LEITA DE GRAMA
122		2400.0	"				
123		2600.0	"				
124		2800.0	"				

MOD RO-ITEC REF 1004

locação

PAG 07

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	125		300.0	217°00				
	126		320.0	"				
	127		[illegible]					
	128		360.0					
	128+ 13.0		373.0	"				
R	110		373.0	0°00				
↑	128+ 13.0							
V	AU		5.0	180°00				
	AU		5.0	293°00				
	129		7.0	113°00				
	130		27.0	"				
	131		47.0	"				
	132		67.0	"				
	133		87.0	"				
	134		107.0	"				
	135		127.0	"				
	136		147.0	"				
	137		167.0	"				
	138		187.0	"				
	139		207.0	"				

MOD ROMITEC REF 1004

locação

KAE 02

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
139		227.0	113°00				
140		227.0	"				
[illegible]		[illegible]					
142		[illegible]					
143		[illegible]	"				
R 128+	130	307.0	0°00				
T 143							
V AM		5.0	00°00				
AM		5.0	270°00				
144		20.0	120°00				
145		40.0	"				
146		60.0	"				
147		80.0	"				
148		100.0	"				
149		120.0					
150		140.0	"				
151		160.0	"				
152		180.0	"				
153		200.0	"				
154		220.0	"				

MOD ROMITEC REF 1004

locacao

PAG 10

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	155		240.0	179°00				
	156		260.0	"				
	157		[illegible]					
	158		300.0					
	159		320.0	"				
	160		340.0	"				
	161		360.0	"				
	162		380.0	"				
	163		400.0	"				
	164		420.0	"				
	165		440.0	"				
	166		460.0					
	167		480.0					
x	168		500.0					
	169		520.0	"				
	170		540.0	"				LEITO DA FROTA
	171		560.0	"				
	172		580.0	"				
	173		600.0	"				
	174		620.0	"				
x	175		640.0	"				LEITO DA GRATA
	176		660.0	"				

MOD ROMITEC REF 1004

000120

locação

PAG 11

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intern. quartas		parciais	totais	lidos	calculados	
177		680,0	179°00				
178		700,0	"				
x 179		720,0					
180		740,0					
181		760,0	"				
182		780,0	"				
+12,0		792,0	"				
R 143,0							
Ã 182+8,0							
V AM		5,0	15°00				
AM		5,0	180°00				
183		12,0	135°00				
184		32,0	"				
185		52,0	"				
186		72,0	"				
187		92,0	"				
188		112,0	"				
189		132,0	"				
12,2 +12,00		144,2	"				
190		152,0	"				

EST. 182+8,0

JUNTO DA GROTA

MOD ROMITEC REF 1004

000121

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	191		172.0	195°00				
	192		192.0	"				
	193		212.0					
	194		232.0	"				
	195		252.0	"				
	196		272.0	"				
+10.80	+10.80		262.8	"				LEITO DA GROTA
	197		292.0	"				
	198		312.0	"				
	198		332.0	"				
	200		352.0	"				
	201		372.0	"				
	202		392.0	"				
	203		412.0	"				
R	182+8,0			0°00				
↑	203							
V	AM		5.0	90°00				
	AM		5.0	270°00				
	204		20.0	180°00				
	205		40.0	"				

MOD ROMITEC REF 1004

locação

PAG 12

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	206		60,0	[illegible]				
	207		80.0					
	208		100.0					
	209		120,0					
	210		140,0					
	211		160,0					
	212		180,0					
	213		200,0					
	214		220,0					
	215		240,0					
	216		260,0					LEITO DA GROTA
	217		280,0					
	218		300,0					
	219		320,0					
	220		340,0					
X	221		360,0					
	222		[illegible]	"				
	223		[illegible]	"				[illegible]
	224		[illegible]	"				
	225		440,0	"				
	226		460,0	"				
X	227		480,0	"				

MOD ROMITEC REF 1004

000123

locação

PAG 14

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
R 221			0000				
227		430.0					
3m		5.0	25'00				
A m		5.0	270 00				
228		20.0	180.00				
229		40.0	"				
230		60.0	"				
230+6,10		66,5	"				LEITO DA GROTA → D
231		80.0	"				
232		100.0	"				
233		120 0					
234		140 0					
235		160 0					
236		180 0					
237		200 0	"				
238		220.0	"				
239		240 0					
240		260 0					LEITO DE PIGCHA
241		280.0					→ D
242		300.0					DEFLEXÃO TOPERRO
243		320.0	"				PIQ SOBRE ROCHA
244		340.0	"				" " "

MOD. ROMITEC REF 1004

244+10,10

FIM DE AFLORAMENTO DE ROCHA

locação

PAG 15

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
244		360.0	180°00				244
245+	15.0	378.0	"				BIRCA LIMITE [illegible]
246		[illegible]					[illegible]
247		[illegible]					[illegible]
R 227		400.0	0000				
T 247							SOB REDE DE ALTA TENSÃO
V AM		5.0	90°00				
AM		5.0	270°00				
248		20.0	180°00				
249		40.0					INICIO DE AFLOR [illegible]
250		60.0					
251		80.0					FIM DE AFLOR [illegible]
252		100.0					
253		120.0	"				
17,5 ← 253+	17,5	137,5	"				LEITO DE GRAOTA
254		140.0	"				
255		160.0	"				
256		180.0	"				180,0
257		200.0	"				[illegible]
258		220.0	"				[illegible]
259		240.0	"				
260		260.0	"				

MOD ROMITEC REF 1004

000125

locação

PAG 16

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
260 +	12 [illegible]	2330	180°30'		[illegible]		LEITO DE ESTRE[illegible]
261		2800					
[illegible]	[illegible]	[illegible]					[illegible]
262		[illegible]					[illegible]
263		3200	"				
264		3400	"				
265		3600	"				
266		3800	"				
267		4000	"				
268		4200	"				FIM DA FAIXA DE RAGIO
269		4400	"				
270		4600	"				
270 + 162		4762	"				LEITO DE ESTRA
271		[illegible]	"				
272		5000	"				
273		5200	"				
274		5400					
275		5600	"				
276		5800	"				
277		6000	"				
278		6200	"				
279		6400	"				

IC.3

MOD ROMITEC REF 1004

000126

locação

DOS 17

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
280		660.0	151°30				
281		[illegible]					
[illegible]		[illegible]					
283		[illegible]					
284		[illegible]					
285		[illegible]					INICIO DE [illegible]
286		750.0					SOBRE ROCHA
287		800.0					
288		850.0					
289		900.0					
290		950.0					
291		750.0					FIM DE [illegible]
292		950.0					
293		2200					
294		9400					
294 + 15,3	15,3	9553					[illegible]
295		9600					
296		9800					
297		1000.0					
298		1020.0					
299		1040.0					

15,3

MOD ROMITEC REF 1004

locação

PDG 15

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
R 247		1040	0000				
T 299							
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]				
300		20 0	[illegible]				
301		40 0	"				
302		60 0	"				
303		80 0	"				
304		100 0	"				
305		120,0	"				
306		140,0	"				
307		160 0	"				
308		180 0	"				
309		200 0	"				
309+ 310	11.0	[illegible]	"				LEITO DE GROTA
311		240 0	"				
312		260 0	"				
313		280 0	"				
314		300 0	"				
315		320,0	"				
316		340 0	"				
317		360 0	"				

MOD ROMITEC REF 1004

000128

locação

PÁG 19

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	318		380	210°00'				
	319		400	"				
	320		420					
	321		440	"				
R	299		440.0	0°00				
A	321							
V	AM		5.0	180°00				
	AM		5.0	315°00				
	322		20.0	135°00				
	323		40.0	"				
	324		60.0	"				
	325		80.0	"				
	325+	14.0	93.0	"				LEITO DE GRETA
	326		100.0	"				
17,5	326+	17.5	117.0	"				LEITO DE GRETA
	327		120.0	"				
	328		140.0	"				
	329		160.0					
15,5	329+	15.5	175.5	"				LEITO DE GRETA
	330		180.0	"				

MOD ROMITEC REF 1004

000129

329-
329
328
327

locação

PAG 20

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
331		200.0	135°00				
331+	11.0	211.0	"				LEITO DE GROTA
332		220.0					
333		240.0	"				
334		260.0	"				
334+	8.0	268.0	"				LEITO DE GROTA
335		280.0	"				
336		300.0	"				
337		320.0	"				
338		340.0	"				
R 321		340.0	0°00				
A 338							
V AM		5.0	90°00				
AM		5.0	270°00				
339		20.0	180°00				
340		40.0	"				
341		60.0					LEITO DE GROTA
342		80.0	"				
343		100.0	"				
343+	10.0	120.0	"				LEITO DE GROTA
344							

MOD ROMITEC REF 1004

000130

981

locação

P.26 21

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
345		140.0	180°00				
346		[illegible]	"				
[illegible]		[illegible]					
348		[illegible]	"				
349		220.0	"				
350		240.0	"				
351		260.0	"				
352		280.0	"				
353		300.0	"				
354		320.0	"				
355		340.0	"				
356		[illegible]	"				
357		[illegible]	"				
358		[illegible]	"				
359		420.0	"				CERCA
360		440.0	"				
361		460.0	"				
362		480.0	"				
363		500.0	"				
363+70		507.0	"				
364		520.0	"				
365		540.0	"				

MOD ROMITEC REF 1004

000131

locação

PAG 22

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	366		560.0	120°00				
	367		580.0	"				
	368		[illegible]					
	368+[illegible]		[illegible]	"				
	369		620.0	"				
	370		640.0	"				
	371		660.0	"				
	372		680.0	"				
	373		700.0	"				
	374		720.0	"				
	375		740.0	"				
	376		760.0	"				
	377		780.0	"				
	378		800.0	"				
	379		820.0	"				
R	338		820.0	0°00				
T	379							
V	AM		5.0	180°00				
	AM		5.0	20°00				
	380		30.0	160°00				

MOD ROMITEC REF 1004

000132

locação

PAG 22

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	381		40.0	160°00				
	382		[illegible]					
	[illegible]							
	384		[illegible]					
	385		120.0					
	386		140.0	"				
16,5	386+16,5		156.5	"				g
	387		160.0	"				
	388		180.0	"				
	389		200.0	"				
	390		220.0	"				
	391		240.0	"				
R	379		240.0	0°00				
↑	391							
"	AM		5.0	00°00				
	AM		5.0	070°00				
	392		20.0	180°00				
	393		40.0	"				
	394		60.0	"				
	395		80.0	"				

MOD ROMITEC REF 1004

000133

locação

PAG 24

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
396		100.0	180°00				
397		120.0	"				
398		140.0					
399		160.0	"				
400		180.0	"				
400+5.4		185.4	"				LEITO DE GROTA
401		200.0	"				
401+5.0		205.0	"				LEITO DE GROTA
402		220.0	"			4m de largura	EIXO DE ESTRADA CORR
403		240.0	"				LIMITE [illegible]
							[illegible] PIRCEIROS
R 391		[illegible]	0°00				
403							
V Am		5.0	180°00				
Am		5.0	330°00				
404		20.0	150°00				
405		40.0	"				
406		60.0	"				
407		80.0	"				
408		100.0	"				
409		120.0	"				

MOD ROMITEC REF 1004

000134

locacão

PAG 35

	estacas		alinhamentos	deflexões		azimutes		observacões
	inteiras	intermediarias		parciais	totais	lidos	calculados	
	410		140.0	150°00				
	411		160.0	"				
	412		[illegible]	"				
	413		200.0	"				
	414		220.0	"				
	415		240.0	"				
	416		260.0	"				
	417		280.0	"				
	418		300.0	"				
	419		320.0	"				
	420		340.0	"				
	421		360.0	"				
R	403		360.0	0°00				
↑	421							
V	AM		5.0	26°00				
	AM		5.0	180°00				
	422		20.0	206°00				
	423		40.0	"				
	424		60.0	"				
	425		80.0	"				

MOD ROMITEC REF 1004

000135

locação

PAG 26

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
426		100.0	20°00				
427		120.0	"				
428		140.0					
429		160.0	"				
430		180.0	"				
431		200.0	"				
432		220.0	"				
433		240.0	"				
434		260.0	"				
435		280.0	"				
436		300.0	"				
437		320.0	"				
437+15.4		335.4	"				
438		340.0	"				
439		360.0	"				
440		380.0	"				
441		400.0	"				
442		420.0	"				
443		440.0	"				
444		460.0	"				
445		480.0	"				
446		500.0	"				

15.4

MOD ROMITEC REF 1004

000136

locação

205 27

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
447		520.0	206°00				
448		540.0	"				
449		560.0	"				
450		580.0	"				
451		600.0	"				
452		620.0	"				
453		640.0	"				
454		660.0	"				
455		680.0	"				
456		700.0	"				
457		720.0	"				
457+9		739.0	"				
458		740.0	"				
459		760.0	"				
460		780.0	"				
461		800.0	"				
462		820.0	"				
463		840.0	"				
464		860.0					
465		880.0	"				
466		900.0	"				
467		920.0	"				

MOD ROMITEC REF 1006

000137

locacão

PDG 20

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
467+	14,15	934,15	[illegible]			[illegible]	[illegible]
468		940,0				[illegible]	[illegible]
[illegible]		[illegible]					
[illegible]							
[illegible]		[illegible]					
R 421		990,0	[illegible]				
421+[illegible]							
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
479 -	14,6	184,6					LEITO DE GROTA
480		190,0					

MOD ROMITEC REF 1004

000138

locação

PAG 22

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
481		210.0	[illegible]				
482		230.0	"				
483		[illegible]					
484		270.0					
485		290.0					
486		310.0	"				
486 +	11.0	321.0					[illegible] = 25m
487		330.0	"				
488		350.0	"				
R 475 +	00	350.0	[illegible]				
A 489							
" Am		5.0	[illegible]				
Am		5.0	[illegible]				
489		[illegible]	[illegible]				
490		400	"				
491		420					
492		[illegible]					
493		[illegible]					
494		1250	"				
495		1400					

MOD ROMITEC REF 1004

000139

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
496		160.0	180°00'				
497		180.0	"				
[illegible]		[illegible]					
499		[illegible]					
499 + 17,8		[illegible]	"				LEITO DE [illegible]
500		240.0	"				
501		260.0					
502		[illegible]					
502		[illegible]	"				Pequena [illegible]
503		320.0					
505		340.0	"				
505 + 15.0		355.0					LEITO DE GRAMA
506		360.0	"				
507		380.0	"				
508		400.0	"				
509		420.0	"				
510		440.0	"				
510 + 3.0		443.0					LEITO DE GRAMA
511		460.0	"				
512		480.0	"				

17,8

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
488		480.0	[illegible]				
512							
[illegible]		[illegible]	[illegible]				
PM		50	180°00				
513		20.0	225°00				
514		40.0	"				
515		60.0	"				LEITO DE GROTA
516		[illegible]	"				
517		[illegible]	"				
518		[illegible]	"				
519		[illegible]	"				
520		[illegible]	"				
520 + 50		[illegible]					LEITO DE GROTA
521		[illegible]	"				
522		1800					
523		2000					LEITO DE GROTA
524		2200					
525		2400					
526		[illegible]					
527		[illegible]					
528		[illegible]	"				
529		[illegible]					
529 + 13,0		533,0	"				LEITO DE GROTA

MOD ROMITEC REF 1004

locação

PAG 32

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
530		340,0	225°00				
530+	155	[illegible]	"				
[illegible]		[illegible]					
531+	50	[illegible]	"				[illegible]
532		[illegible]	"				
532+	7,0	392,0	"				LEITO DE GROTO
532+	16,2	396,2	"				CERCA LIMITE DA PRAÇA DE
533		[illegible]					MARCOS DIOGENES C'ES
534		420,0	"				POLIO DE CARROFILEIRO
535		[illegible]	"				
536		[illegible]	"				
537		[illegible]					
538		[illegible]	"				
539		[illegible]	"				
R 512		520,0	0°00				
539							
V Am		5,0	91°00				
Am		[illegible]	27[illegible]				
540		50,0	180°00				
541		4[illegible],0	"				

18,5

16,2

MOD ROMITEC REF 1004

000142

locação

DAG 33

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
542		40.0	180°00				
543		[illegible]	"				
544		[illegible]					
545		120.0	"				
546		140.0	"				
547		160.0	"				
548		180.0	"				
549		200.0					LEITO DE RIACHO
550		220.0	"				" " "
551		240.0	"				
552		260.0	"				
553		280.0					
554		300.0	"				
555		320.0	"				
556		340.0	"				
557		360.0	"				
558		380.0	"				
559		400.0	"				
560		420.0	"				

MOD ROMITEC REF 1004

locação

PAG 34

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
R 539		420.0	[illegible]				
540							
[illegible]		[illegible]	[illegible]				
AM		5.0	[illegible]				
561		20.0	185°30				
562		40.0	"				EIXO DE EST CAFR - [illegible]
563		60.0	"				
564		[illegible]	"				
565		[illegible]	"				
566 +	57	[illegible]	"				[illegible]
566		[illegible]	"				
566 +	[illegible]	[illegible]					[illegible]
567		[illegible]					
567 +	[illegible]	[illegible]	"				LEITO DE FRENTE
568		[illegible]	"				
569		[illegible]					
570		[illegible]					
570 +	2.5	[illegible]					[illegible]
571		[illegible]					
572		[illegible]					
573		[illegible]	"				
573 +	2.5	302.5	"				

10,9

MOD ROMITEC REF 1004

000144

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
574		287.2	180°00'				
575		[illegible]	"				
[illegible]		[illegible]					
577		[illegible]					
578		346.6	"				
578 + 4.8 579		386.[illegible]	"				
580		400.[illegible]	"				
581		400.[illegible]	"				
581 + 2,30		402.3	"				
R 560		412.3	[illegible]				
A 581 + 2,30							
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]				
582		[illegible]	[illegible]				
583		377.7	"				
584		[illegible]					
584 + 3,0		607					EIXO DE ESTACA - PRE [illegible]
585		77.7					
586		97.7					
587		117.7	"				
588		137.7	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
589		1577	[illegible]				
590		[illegible]	"	"			
[illegible]		[illegible]					
592		[illegible]	"				INICIO DE AFLOR[illegible]
593		2377	"				
593 + 18,5	185	2562	"				LEITO DE ERCTA
594		2577	"				FIM DE AFLOR[illegible]
595		2777	"				
596		3[illegible]	"				
597		[illegible]	"				
598		[illegible]	"				
599		3777	"				
600		3977					INI[illegible]
601		[illegible]	"				
602		4377	"				FIM DE AFLOR[illegible]
603		[illegible]					
604		4777	"				
604 + 2,0		4[illegible]	"				EIXO DE ENTRA[illegible] CARR[illegible]
605		[illegible]	"				
606		5177	"				
606 + 5,5		5232	"				LEITO DE ERCTA
607		5377	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
608		557.7	180°00'				
609		577.7	"				
609 + [illegible]	[illegible]	[illegible]					INICIO DE AFLOR DE ROCHA
610		597.7	"				FIM DE AFLOR DE ROCHA
611		617.7	"				
612		637.7	"				
613		657.7	"				INICIO DE AFLOR DE ROCHA
614		677.7	"				FIM " " " "
615		697.7	"				
616		717.7	"				
617		737.7	"				LEITO DE RIACHO
618		757.7	"				
619		777.7	"				LEITO DE RIACHO
620		797.7	"				
621		817.7	"				
622		837.7	"				
623		857.7	"				
624		877.7	"				
624 +	8.5	886.2	"				LEITO DE GROTA
625		897.7	"				
626		917.7	"				
627		937.7	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
628		[illegible]	[illegible]				
629		[illegible]					
629 + [illegible]							
629 + [illegible]		[illegible]					
630		[illegible]					
630 + 17,7		[illegible]					
631		[illegible]					
631 + 11,4		[illegible]					
632		[illegible]					
632 + [illegible]		[illegible]					
633		[illegible]					
633 + [illegible]		[illegible]					
634		[illegible]					
[illegible] + 7,6		[illegible]					
634 + 16,8		[illegible]					
635		[illegible]					
635 + 10,8		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
638		[illegible]					
639		[illegible]					

MOD ROMITEC REF 1004

000148

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
R 581+	25	11[illegible]	[illegible]				
582							
[illegible]		[illegible]					
[illegible]		[illegible]	[illegible]				
584		[illegible]	[illegible]				
584		[illegible]					
640		[illegible]					
645		[illegible]					
644		[illegible]					
645		[illegible]					
15,64 * 646+	36	[illegible]					E'X[illegible]
[illegible]		[illegible]					
[illegible]							
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
650+	[illegible]	[illegible]					[illegible]
[illegible]		[illegible]					
651+	[illegible]	[illegible]					
652		[illegible]					
653		[illegible]					
654		[illegible]					

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
655		[illegible]	[illegible]				
[illegible]							[illegible]
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
660		420.0					
661		[illegible]					FIM DE ST[illegible]
R 659		[illegible]	[illegible]				
A 661							
[illegible]		[illegible]	[illegible]				
[illegible]		[illegible]	[illegible]				
662		[illegible]	[illegible]				
663		[illegible]					
664		[illegible]					
665		[illegible]					
666		[illegible]					
667		120.0					
668		[illegible]					
669		160.0					
670		180.0					

MOD ROMITEC REF 1004

05

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
671		200.0	150.00				
672		[illegible]					
[illegible]		[illegible]	-				
675							
PN		50	90°00				
AN		50	270°00				
678		[illegible]	150°00				
679		[illegible]	.				
16,5 ← 684 + 16,5		[illegible]	.				LEITO DE GROTA
685		[illegible]					
[illegible]		[illegible]					
687		[illegible]					
688		125.0					
14,3 ← 689 + 14,5		125.5	.				LEITO DE GROTA
690		125.0	.				
680		125.0	"				
681		125.0	,				
682		250.0	,				
683		280.0	.				INI[illegible]
684		240.0	"				FIN[illegible]
684 + 6,5		246.5	"				EIXO DE EST CAPR + 6 n TEV

MOD ROMITEC REF 1004

FAS. [illegible]

000151

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	685		260.0	180°00				
	686		280.0	"				
	687		300.0					
	688		320.0	"				[illegible]
	689		340.0	"			LIO DE PETRO XAVIER [illegible]	
								SE XAVIER DINHEIRO
R	672		340.0	0°00				
	689							
	Am		5.0	45°00				
	Am		5.0	180°00				
	690		20.0	225°00				
	691		40.0	"				
	692		60.0	"				
	693		80.0	"				LEITO DE SECTA
	694		100.0	"				INICIO DE AÇÃO DE REGA
	695		120.0	"				
	696		140.0	"				FIM DE LEITO DE REGA
	697		160.0	"				
	698		180.0	"				
18,7	698 +18,7		198.7	"				LEITO DE SECTA
	699		200,0	"				
	700		220,0	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
701		240	225'00				
701 +	8,0	248,0	"				EIXO EST CARR 1m TRAV.
702		[illegible]					[illegible]
703		[illegible]					
* 704		300,0	"				FINTE LEOR [illegible]
705		320,0	"				
15,5 ← 705 +	15,5	335,5	"				EIXO TE EST CARR 1m TRAV.
706		340,0	"				
707		360,0	"				
708		380,0	"				
709		400,0	"				
710		420,0					
711		440,0	"				
712		460,0	"				
713		480,0	"				
714		500,0	"				
714 +	10,0	510,0	"				LEITO QUADRO
715		520,0	"				
716		540,0	"				
717		560,0	"				
718		580,0	"				
719		600,0	"				

MOD ROMITEC REF 1004

000153

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
720		620.0	225°00				
721		640.0	"				
[illegible]		660.0					[illegible]
722		660.0	"				
723		680.0	"				
724		700.0	"				
725		720.0	"				
726		740.0	"				
727		760.0	"				
728		780.0	"				
729		800.0	"				
730		820.0	"				
731		840.0	"				
732		860.0	"				
733		880.0	"				
R 689		880.0	0°00				
T 733							
AM		5.0	10°00				
AM		5.0	180°00				
734		20.0	190°00				
735		40.0	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
736		60.0	190°00				
737		80.0	"				
738		100.0					
739+11,4		111.4	"				CERCA LIMITE PROPRIEDADE
739		120.0	"				XAVIER TIDE PROPRIEDADE PEREIRA
740		140.0	"				PINHEIRO
741		160.0	"				
742		180.0	"				
743		200.0	"				
744		220.0	"				
745		240.0					
746		[illegible]					
747		[illegible]					
P 747		2×00	0°50				
T 747							
V 748		50	36°26				
[illegible]		50	[illegible]				
749		[illegible]	[illegible]				
750		[illegible]					
750		60.0					
751		80.0	"				

11,4

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
754	9,0	[illegible]	21°30				LEITE [illegible]
755		[illegible]					
[illegible]		[illegible]					
752		[illegible]					
753		140,0					
754		160,0					
755		180,0					
756		200,0					
757		220,0					
758		240,0					
759		[illegible]					
760		[illegible]					INÍCIO DE [illegible]
761		[illegible]					
762		[illegible]					
763		[illegible]					
764		[illegible]					
765		[illegible]					
766		[illegible]					
767		[illegible]					
768		[illegible]					
[illegible]		[illegible]					
[illegible]		[illegible]					
772	17,0	[illegible]			CERCA LIMITE [illegible]		
773		[illegible]			[illegible]		
[illegible]		[illegible]					
770		460,0					
771		480,0					

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	772		500.0	216°30				
	773		520.0	"				
	774		540.0	"				
	775		560.0	"				
	776		580.0	"				
	777		600.0	"				
	778		620.0	"				
	779		640.0	"				
	780		660.0	"				
R	747		660.0	0°00				
A	78[illegible]							
	AN'		5.0	90°00				
	AM		5.0	270°00				
	781		20.0	180°00				
	782		40.0	"				
	783		60.0	"				
	784		80.0	"				
	785		100.0	"				
	786		120.0	"				
	787		140.0	"				
	788		160.0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	789		180.0	180°00				
	789 +	12.0	192.0	"				EIXO DE EST CPKR – EM LA
	790		200.0	"				
	790 +	13.0	213.0					LEITO DE
	791		220.0	"				
	792		240.0	"				
	793		260.0	"				
	794		280.0	"				
	795		300.0	"			CERCA LIMITE PROP FEO BEZERRA DE	
	796		320.0	"			TO E/JOSE BEZERRA	
	797		340.0	"				
	798		360.0	"			FIM DE TERRENO	
R	780		360.0	0°00				
A	798							
	AM		5.0	180°00				
	AM		5.0	319°00				
V	799		20.0	139°00				
	800		40.0	"				
	801		60.0	"				
	802		80.0	"				
	803		100.0	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
804		120.0	39°00				LEITO DE GRETA
805		[illegible]					
805 +	10.0	[illegible]					[illegible]
806		[illegible]					
807		[illegible]					
807 +	9.5	159.5					LEITO DE GRETA
808		[illegible]					
809		[illegible]					[illegible]
810		[illegible]					
811		[illegible]					
* 812		[illegible]					
813		[illegible]					
813 +	9.0	[illegible]					INICIO DE DEFLEXÃO [illegible]
812 +	12.3	[illegible]					TOPO DA PEDRA
813 +	16.0	[illegible]					PE DA PEDRA
814		[illegible]					
815		[illegible]					
815 +	3.6	[illegible]					LEITO DE GRETA
816		[illegible]					
817		380.0					
817 +	8,6	388.6					TOPO DE ROCHA
817 +	18.0	398					BAIXA

MOD ROMITEC REF 1004

000159

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
818		420.0	109°00				
819		430 0					
819+5		435 5					
819+86		438 6					
819+125		432 5					
820		440 0					
821		460 0					
822		480 0					
823		500,0					
824		520 0					
825		540 0					
826		560 0					
826+15,0		575 0					EIXO DE ESTCARPC
827		580 0					
828		600 0					
829		620 0					
R 798		620 0					
T 829							
V Am		5.0	90°00				
Am		5.0	270°00				
830		20.0	120°00				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
831		40,0	180°00				
832		60,0	"				
833		80,0	"				
834		100,0	"				
835		120,0	"				
835+	12,0	132,0	"				FINAL DO TERR ARENOSO E INCIO DE AFLOR DE ROCHA
836		140,0	"				
837		160,0	"				LEITO DE GROTA
838		180,0	"				
839		200,0	"				FIM DE AFLOR DE ROCHA
839+	6,0	206,0	"				g
840		220,0	"				
841		240,0	"				
842		260,0	"				
843		280,0	"				
844		300,0	"				
845		320,0	"				
846		340,0	"				
846+	6,0	346,0	"				LEITO DE RIACHO
847		360,0	"				
848		380,0	"				
849		400,0	"				

MOD ROMITEC REF 1004

locação

FHB 52

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
850		420,0	180°00				
851		440,0	"				
851 +	6,4	446,4	"				L.GROTA
852		460,0	"				
853		480,0	"				
854		500,0	"				
855		520,0	"				
856		540,0	"				
857		560,0	"				
858		580,0	"				
859		600,0	"				
860		620,0	"				
860 +	9,0	629,0	"				EIXO DE EST CARR. E LIMITE PROP.
861		640,0	"				JOSÉ BEZERRA PINHEIRO / FEO BEZERRA SE YOT
861 +	8,0	642,0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
R	829		642.0	0°00				
Ñ	861+	2.0						
V	AM		5,0	180°00				
	AM		5,0	358°00				
	862		13,0	178°00				
	863		38,0	"				
	864		50,0	"				
	864+	10.0	68,0	"				LEITO DE GROTA
	865		78,0	"				LOMBADA
	865+	13,0	91,0	"				LEITO DE G.
	866		98,0	"				
	867		118,0	"				
	867+	5,5	123,5	"				LEITO DE G.
	868		138,0	"				
	869		158,0	"				
	870		178,0	"				
	871		198,0	"				
	872		218,0	"				
	872+	6,0	224,0	"				L. DE GROTA
	872+	12.0	230,0	"				COMBADA
	872+	17.6	235,6	"				L. DE GROTA
	873		238,0	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediarias		parciais	totais	lidos	calculados	
874		258.0	172°00				
875		278.0	"				
876		298.0	"				
876+	11,0	309.0	"				INICIO DE AFLOR DE ROCHA
876+	16,0	314.0	"				FIM " " " "
877		318.0	"				
878		338.0	"				
879		358.0	"				
880		378.0	"				
881		398.0	"				
881+	11.4	409.4	"				PÉ DE BARR DIREITO DO RIACHO
882		418.0	"				LEITO DO RIACHO
882+	6,0	424.0	"				PÉ DE BARR ESQUERDO
882+	9,0	427.0	"				BARRANCO "
883		438.0	"				INICIO DE TERR ARENOSO
884		[illegible]	"				
885		[illegible]	"				
886		498.0	"				
887		518.0	"				
888		538.0	"				
889		558.0	"				
890		578.0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	891		598,0	172°00				
	892		618,0	"				
R	861+	2,0		0°00				
T	892							
V	AM		5,0	90°00				
	AM		5,0	270°00				
	892+	6,0	6,0	180°00			CERCA LIMITE PROP DE F.ÇO BEZERRA PEIXO	
	893		20,0	"				C/ F.ÇO FRANKLIN GONDIM
	894		40,0	"				
	895		60,0	"				FIM DE TERR ARENOSO
	896		80,0	"				
	897		100,0	"				
	897+	15,0	115,0	"				L. DE GROTA
	898		120,0	"				
	899		140,0	"				
	900		160,0	"				
	901		180,0	"				
	902		200,0	"				
	903		220,0	"				
	904		240,0	"				
	904+	6,0	246,0	"				L. DE GROTA

MOD ROMITEC REF 1004

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
905		260.0	180°00				
906		280.0	"				
907		300.0	"				
908		320.0	"				
909		340.0	"				
910		360.0	"				INICIO DE TERR ARENOSO
911		380.0	"				↓
912		400.0	"				
913		420.0	"				
914		440.0	"				
915		460.0	"				
916		480.0	"				
917		500.0	"				
918		520.0	"				
919		540.0	"				
R 899		[illegible]	0°00				
↑ 919							
V AM		5.0	90°00				
AM		5.0	270°00				
920		20.0	180°00				
921		40.0	"				

MOD ROMITEC REF 1004

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
922		60,0	180°00				
923		80,0	"				
924		100,0	"				
925		120,0	"				
926		140,0	"				
927		160,0	"				
928		180,0	"				
929		200,0	"				
930		220,0	"				
931		240,0	"				
932		260,0	"				
933		280,0	"				
934		300,0	"				
935		320,0	"				
936		340,0	"				
937		360,0	"				
938		380,0	"				
939		400,0	"				
940		420,0	"				
941		440,0	"				
942		460,0	"				
943		480,0	"				

MOD ROMITEC REF 1004

locação

estacas		alinhamentos	deflexões		azimutes		observações
inteiras	intermediárias		parciais	totais	lidos	calculados	
944		500,0	180°00				
945		520,0	"				
946		540,0	"				
947		560,0	"				
948		580,0					
949		600,0	"				
950		620,0	"				
951		640,0	"				
952		660,0	"				
953		680,0	"				
954		700,0	"				
955		720,0	"				
956		740,0	"				
957		760,0	"				
958		780,0	"				
959		800,0	"				FIM DE TERR ARENOSO
960		820,0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
R	919		820,0	0°00				
T	960							
V	Am		5,0	90°00				
	Am		5,0	270°00				
	961		20,0	180°00				
	962		40,0	"				
	963		60,0	"				
	964		80,0	"				
	965		100,0	"				
	966		180,0	"				
	967		140,0	"				INICIO DE AFLOR DE ROCHA
	968		160,0	"				
	969		180,0	"				
	970		200,0	"				
	971		220,0	"				
	972		240,0	"				
	972+	12,5	252,5	"				L. DE SRDTA
	973		260,0	"				
	974		280,0	"				
	975		300,0	"				
	976		320,0	"				
	976+	12,0	332,0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
R	960.		332,0	0°00				
Π	976+12,0							
V	AM		5,0	180°00				
	AM		5,0	353°15				
	977		8,0	173°15				
	978		28,0	"				
	979		48,0	"				
	980		68,0	"				FIM DE AFLOR DE ROCHA
	981		88,0	"				
	981+	9,0	97,0	"				
	982		108,0	"				
	982+	2,0	110,0	"				CERCA LIMITE DROP DE Fco FRANKLIN GONDIM
	983		128,0	"				C/ Fco BEZERRA DEIXOTO
	984		148,0	"				
	985		168,0	"				
	986		178,0	"				
	987		208,0	"				
	988		228,0	"				
	989		248,0	"				
	989+	7,5	255,5	"				INICIO DE CALÇAMENTO DA RUA
	990		268,0	"				PEDRO XAVIER PINHEIRO
	991		288,0	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
	992		308,0	173°15"				
	993		328,0	"				
	994		348,0	"				
	995		368,0	"				
	996		388,0	"				
	997		408,0	"				
	998		428,0	"				
	999		448,0	"				
	1000		468,0	"				FIM DO CALÇAMENTO E AFLOR DE RC
	1000+	2,0	470,0	"				LEITO DO RIACHO
	1000+	12,3	480,3	"				FIM DO AFLOR DE Rocha
R	976+	18,0	480,3	0°00				
↑	1000+	12,3						
V	1001		7,7	168°00				
	1002		27,7	"				INICIO DO CALÇAMENTO DA RUA F. C.
	1003		47,7	"				GUIMARÃES REYES
	1004		67,7	"				
	1005		87,7	"				
	1005+	7,0	94,7	"				

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
R	1000+	12,3	94,7	0°00				
⇑	1005+	7,0						
V	AM		10,0	235°00				SOBRE CALÇADA DA CASA ESQUINA DA RUA FEO G.
	AM		10,0	309°00				VEIXOTO C/RUA BENEDITO B OLIVEIRA
	1006		13,0	90°00				SOBRE CALÇADA DA CASA ESQUINA DAS
	1007		33,0	"				MESMA RUAS
	1008		53,0	"				
R	1005+	7,0	53,0	0°00				
⇑	1008							
V	AM		139	268°17				CANTO (ESQUINA) DO PREDIO DO GINASIO ABRAHÃO
	AM		11,65	38°08				LINCOLN
	1009		20,0	225°00				CANTO (") DO MURO DA CASA DO SR ANT
	1010		40,0	"				NIO OSMAR PINHEIRO
	1011		60,0	"				
	1011+	8,0	68,0	"				
	1012		80,0	"				L. DE GROTA
	1012+	9,5	89,5	"				
	1013		100,0	"				CERCA LIMITE PROP DO GINASIO ABRAHÃO L
	1013+	10,0	110,0	"				e/ESPOLIO DE JÃO FELIX LOPES

MOD ROMITEC REF 1004

locação

	estacas		alinhamentos	deflexões		azimutes		observações
	inteiras	intermediárias		parciais	totais	lidos	calculados	
R	1002		110.0	0°00				
π	1013+	10,0						
V	Am		5.0	28°00				
	Am		5.0	180°00				
	1014		10,0	218°00				
	1014+	8.0	18.0	"				LEITO GRUTA
	1015		30.0	"				INICIO DE AFLOR DE ROCHA
	1016		50.0	"				FIM " " "
	1016+	8.5	58.5	"				CERCA LIMITE DA PROP DE EDDALHO DE JOÃO
	1017		70.0	"				FELIX LOPES C/PROP PUBLICA DO D.N.C.E.S
	1018		90.0	"				
	1019		110,0	"				
	1020		130.0	"				SOB RESERVATORIO ELEVADO 16,0 m COM
								CAPACIDADE P/36.000 LITRO CUBICO

MOD ROMITEC REF 1004

3.6 - CADERNETAS DO CONTRANIVELAMENTO DO EIXO DA ADUTORA

CADERNETA Nº 01 DO CONTRA-N

CONTRE

nivelamentos

PAG. 01

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
16	1422	1215			1134	
16 4			3 50		99	
5			35		99	
2			34			
3			36			
12			36 31			
			35			
16			35 16		90	
2			21 05		169	
			16		16	
3			1			
2						
2						

MOD ROMITEC REF 309

CONTRA
nivelamentos DO EIXO DA ADUTORA ITAPUA / FEITICEIRO PAG 2

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]				[illegible]	[illegible]	
24			[illegible]		[illegible]	
	2549	111246				
PN					[illegible]	
	2518	[illegible]				
25			1464		[illegible]	
24			2022		105204	
23				[illegible]	[illegible]	
[illegible]	1913	100380				
22+10			0546		[illegible]	
22				[illegible]	[illegible]	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
19				[illegible]	[illegible]	
[illegible]	0109	[illegible]				
18			1568		[illegible]	
17			1304		[illegible]	
16					[illegible]	

MOD ROMITEC REF 1009

000176

nivelamentos [illegible]

PAG. [illegible]

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]				
			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
			[illegible]		[illegible]	
				[illegible]	[illegible]	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
				[illegible]	[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]					[illegible]	

MOD. ROMITEC REF. [illegible]

000177

nivelamentos CONT

PAG 24

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]				
			[illegible]		[illegible]	
[illegible]		[illegible]		[illegible]	[illegible]	
	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]		[illegible]	[illegible]	
			[illegible]		[illegible]	
			[illegible]		[illegible]	
[illegible]			[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 1309

000178

nivelamentos CONT

PAG [illegible]

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
47		[illegible]		[illegible]	[illegible]	
[illegible]	[illegible]	140,652				
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	143,296	
48	[illegible]	152,231				
51			[illegible]		[illegible]	
RN 02			[illegible]		154,497	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
55	[illegible]	151,57[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]					[illegible]	
57			[illegible]		[illegible]	
58			[illegible]		[illegible]	
59			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]						

MOD ROMITEC REF 1009

000179

nivelamentos [illegible]

DA6-06

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]					
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]					
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	

MOD ROMATEC REF 1009

000180

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	

MOD ROMITEC REF 1009

observações

000181

nivelamentos [illegible]

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]

MOD POMITEC REF [illegible]

observações

000182

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	103951
[illegible]			[illegible]		103582
[illegible]			[illegible]		[illegible]
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			54		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		104677
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	1095	[illegible]			
1011			[illegible]		[illegible]
102			[illegible]		[illegible]
103			[illegible]		[illegible]
104			[illegible]		[illegible]

MOD PCMITEC REF 1009

LNL 02

observações

000183

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			2.903		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 005

000184

N-02

CONTRA

nivelamentos CONT

PAG 11

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
120		106 [illegible]	2,21		104 966	
121			[illegible]		105 [illegible]	
[illegible]			[illegible]		[illegible]	
123		[illegible]		[illegible]	[illegible]	
124	2,522	107 956				
124			[illegible]		95 956	
127			[illegible]		105 [illegible]	
128			2,621		105 335	
129			[illegible]		105 [illegible]	
BM 5			1,774		104 [illegible]	
130			[illegible]		[illegible]	
131			[illegible]		[illegible]	
132			[illegible]		[illegible]	
133			1,916		105 [illegible]	
134			[illegible]		106 [illegible]	
135			[illegible]		106 [illegible]	
136			[illegible]		106 [illegible]	
137				1,61	106 [illegible]	

MOD ROMITEC REF 1305

000185

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
139	1.661	109.[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
139			[illegible]		[illegible]	
140			[illegible]		[illegible]	
141			[illegible]		[illegible]	
142			[illegible]		[illegible]	
143			[illegible]		[illegible]	
144			[illegible]		[illegible]	
145			[illegible]		[illegible]	
146			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]					
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
KNº 3			[illegible]		[illegible]	
151			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	

MOD ROMATEC REF 039

DIAS [illegible]

000186

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]					111 814	
[illegible]	[illegible]	115 [illegible]				
153			[illegible]		[illegible]	
156		[illegible]		[illegible]	119 [illegible]	
		[illegible]				
					116 [illegible]	
					117 [illegible]	
			[illegible]		117 [illegible]	
			[illegible]		117 [illegible]	
			[illegible]		116 [illegible]	
					115 [illegible]	
					[illegible]	
165					114 [illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]					[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 004

000187

nivelamentos [illegible]

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]					[illegible]
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		114 961
[illegible]			6		[illegible]
[illegible]			3 [illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]		[illegible]			[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]

MOD ROMITEC REF 309

observações

000188

3963

nivelamentos [illegible]

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	1978	[illegible]				
[illegible]			900		[illegible]	
[illegible]			1170		[illegible]	
[illegible]			1360		[illegible]	
[illegible]			1209		[illegible]	
[illegible]			2560		[illegible]	
[illegible]			3152		[illegible]	
[illegible]				3990	125990	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			5		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD POMITEC REF 1009

000189

nivelamentos CONT

Pag

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]		[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]				
[illegible]			[illegible]		[illegible]	

MOD ROMITEC REF 004

000190

nivelamentos CONT

PAG 17

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
					136	

000191

nivelamentos CONT

PAG 1

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		131712
[illegible]			[illegible]		138878
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]		[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]				[illegible]	[illegible]
[illegible]	[illegible]	[illegible]			
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]

MOD PONTEC REF 009

observaçoes

000192

nivelamentos [illegible]

Pag 13

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

[illegible]

000193

nivelamentos CONT

PAG 36

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observaçoes
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	
AA	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
AUX				[illegible]	[illegible]	
AA	[illegible]	[illegible]				
241			[illegible]		[illegible]	
250			[illegible]		[illegible]	
251			[illegible]		[illegible]	
AUX				[illegible]	[illegible]	
AA	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
AA	[illegible]	[illegible]				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

MOD PO 4 TEC PEF 009

000194

Nº 03

CONTRA

nivelamentos SRM

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observaçoes
[illegible]		127[illegible]		[illegible]	124640	
[illegible]	0[illegible]50	124[illegible]00				
[illegible]			1910		122990	
[illegible]		[illegible]	[illegible]		130[illegible]	
[illegible]			[illegible]		181[illegible]	
[illegible]			1255		123105	
[illegible]			1[illegible]1		123619	
[illegible]			1[illegible]		123219	
26[illegible]			1[illegible]		122963	
[illegible]				[illegible]4	124[illegible]16	
[illegible]	27[illegible]	[illegible]241				
				[illegible]	127[illegible]1	
[illegible]	[illegible]	131[illegible]1				
[illegible]					131[illegible]	
[illegible]			[illegible]55		129[illegible]	
[illegible]				[illegible]1	127[illegible]0	
[illegible]	27[illegible]	121176				
27[illegible]			[illegible]		127735	
[illegible]	[illegible]	[illegible]	37810		127396	

000195

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		131,146	[illegible]		129,846	
[illegible]			1,6[illegible]		[illegible]	
[illegible]			[illegible]		130,124	
[illegible]				[illegible]	131,096	
[illegible]	[illegible]	131,141				
[illegible]			[illegible]		132,084	
[illegible]			1,155		132,226	
[illegible]				1,1[illegible]	134,119	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		136,630	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]	[illegible]	140,576				
[illegible]			[illegible]		138,1[illegible]	
[illegible]			[illegible]		138,261	
[illegible]			[illegible]		136,724	
[illegible]			[illegible]		[illegible]	

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000196

nivelamentos cont

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
290			[illegible]		[illegible]	
291			[illegible]		[illegible]	
292			1500		139 076	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
LL	[illegible]	143.512				
[illegible]			[illegible]		[illegible]	
[illegible]				[illegible]	[illegible]	
LL	1440	144.162				
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

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000197

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		144,662	3,710		[illegible]	
[illegible]			4,720		[illegible]	
304			4,605		[illegible]	
[illegible]			2,945		[illegible]	
[illegible]			2,365		[illegible]	
[illegible]			0,754		143,477	
[illegible]			2,930		[illegible]	
309				3,000	140,462	
4K	1,415	141,877				
310			1,847		[illegible]	
311			1,510		[illegible]	
312			2,445		[illegible]	
313			2,615		[illegible]	
314			1,730		[illegible]	
4UX				0,575	140,302	
4X	3,795	145,097				
315			3,195		141,902	
316			1,310		[illegible]	
317			1,735		[illegible]	

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nivelamentos [illegible]

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]				[illegible]	144 997
[illegible]	2641	148 838			
3 1 [illegible]			2 [illegible]		[illegible]
3 1 2			1 [illegible]		[illegible]
[illegible]			1 [illegible]		[illegible]
[illegible]				[illegible]	148 443
[illegible]	1330	145 774			
3 2 1			1 004		148 774
3 2 2			1 [illegible]		148 613
3 2 3			2 1 7 1		147 597
3 2 4			[illegible]		146 748
3 2 5			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
3 2 7			[illegible]		145 [illegible]
3 2 8			[illegible]		145 346
3 2 9			4 1 2 0		145 658
3 3 0			[illegible]		[illegible]
3 3 1			2 7 2 0		147 658
3 3 2			1 5 [illegible]		[illegible]

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observações

000199

nivelamentos CONT

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
PNX		149770		0312	149440	
XX	3765	153205				
233			3570		149635	
234			1920		151215	
235			1445		151760	
PN 10			2410		150395	
PNI				0470	152735	
XX	2140	154975				
236			1590		153385	
237			0590		154185	
238			2215		152420	
239			1260		153875	
240			2470		152[illegible]	
PNII				2210	151165	
XX	0995	152160				
241			3495		148665	
242			3735		148425	
243			4260		147925	
244			3570		148[illegible]	

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000200

nivelamentos CONT.

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
245		152160	[illegible]		149995
246			2830		151330
247			1905		150255
248			1115		151045
249			1900		151140
250			1265		150895
251			1245		150915
252			1765		150395
253				2760	149400
PL	0965	150365			
254			2205		148160
255			1600		148565
[illegible]			1200		[illegible]
[illegible]			2655		[illegible]
258			1355		149010
259			1095		149270
260			1565		149800
261			1855		149510
262			2525		147835

CO ROMITEC REF 1005

DIA 07

observações

000201

nivelamentos CONT

FLG [illegible]

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudanca		
263		150365	2395		147970	
354			560		147[illegible]	
35[illegible]			[illegible]		147[illegible]	
355				[illegible]	147[illegible]	
11	[illegible]	150022				
367			[illegible]		14[illegible]	
368			[illegible]		146[illegible]	
369			[illegible]		147[illegible]	
370			[illegible]		147[illegible]	
371			1590		149135	
372			[illegible]		149565	
411				[illegible]	151[illegible]	
11	[illegible]	154390				
373			[illegible]		15[illegible]	
374			2435		15194[illegible]	
375			[illegible]		152875	
376				[illegible]	154130	
11	2520	156652				
377			15516		15[illegible]	

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nivelamentos CANT

PAG 2

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
278		155250	1286		155264	
279			1276		155374	
280			[illegible]		155592	
281			1255		154697	
282			[illegible]		[illegible]	
283			[illegible]		155766	
284			1713		154925	
285			2100		154555	
286			2515		154135	
287			2535		152115	
288			[illegible]		152000	
289				1671	154972	
[illegible]	2605	15266				
290			1040		156 [illegible]	
291			2918		156 [illegible]	
292			1210		155 [illegible]	
293			2121		155533	
294			2717		154 [illegible]	

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000203

nivelamentos CONT

PAG 22

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		[illegible]	[illegible]		[illegible]	
[illegible]			3.598		[illegible]	
[illegible]			3.280		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			2.660		[illegible]	
400			2.248		155.316	
401			2.360		[illegible]	
402				1.492	156.172	
[illegible]	[illegible]	15.671				
[illegible]			[illegible]		156.[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]				
[illegible]			[illegible]		158.356	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

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000204

Nº 04

CONTRA
nivelamentos CONT

PAG 21

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]		159286		[illegible]	154495	
[illegible]	[illegible]	156230				
[illegible]				1470	154860	
[illegible]				[illegible]	155365	
[illegible]				[illegible]	155180	
[illegible]				[illegible]	154545	
[illegible]				[illegible]	154595	
[illegible]				[illegible]	154950	
[illegible]				[illegible]	154875	
420				[illegible]	154710	
421				[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]				[illegible]	[illegible]	
[illegible]				[illegible]	153358	
[illegible]				[illegible]	152835	
[illegible]				[illegible]	152605	
[illegible]				[illegible]	153315	
[illegible]	[illegible]	153250				

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000205

nivelamentos CONT

DUG - 32

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
429		153750	[illegible]		158923	
430			1[illegible]		158534	
[illegible]			[illegible]		158245	
[illegible]			[illegible]		152049	
[illegible]			[illegible]		151490	
[illegible]			[illegible]		151291	
[illegible]			[illegible]		150922	
4[illegible]6			[illegible]		150431	
4[illegible]7				2632	150127	
4[illegible]	2810	153987				
[illegible]			[illegible]		150[illegible]	
[illegible]			[illegible]		150[illegible]	
[illegible]			[illegible]		149[illegible]	
[illegible]41			[illegible]		149[illegible]	
[illegible]			[illegible]		150117	
443			2410		150577	
446			[illegible]		151082	
445			2110		151872	
446			1240		152[illegible]	

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000206

nivelamentos CONT

PAG 32

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
447		153987	0532		153455	
448				0093	153894	
44	0740154634					
449			0480		154154	
450			1018		153616	
451			1515		153119	
452			1885		152749	
453			2344		152290	
454			2655		151979	
455			2937		151697	
456			3115		151519	
457			3380		151254	
458			3450		151184	
459			3235		151399	
460			3010		151624	
461			2144		152490	
462			1565		153069	
463			1048		153586	
464				0573	154061	

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000207

nivelamentos CONT

PAG 24

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
464	2728	157,883			154.061	
465			2140		154 699	
466			2265		155 474	
467			1665		156 174	
468			2025		156 917	
PVx				0230	157,609	
PK	2750	161,369				
469			2760		158 609	
470			3730		160 639	
470			3728		160 641	
471			2900		160 885	
472			1024		159 944	
473				2900	158 910	
PK	2000	159,290				
474			1180		158 117	
475			1510		157 789	
476			1285		158 014	
477			1610		157 689	
478			2598		156 691	

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000208

nivelamentos CONT

PAG 25

estacas	visadas à ré	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
479		159299	2943		155356	
480			4500		154799	
481			4270		155029	
482			3200		156099	
483			1600		157699	
484x				0150	159149	
1K	3905	162854				
485			2030		159824	
486			2132		160716	
487			0719		162136	
488x				2102	162752	
1K	3165	164917				
489			1630		163287	
490			0345		164572	
491			1645		163272	
492			2310		162607	
493x				3658	161259	
1K	0560	161840				
494			2460		159359	

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000209

nivelamentos CONT

PAG 26

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudanca	cotas	observações
493		161849	1942		159877	
494			2010		159819	
495			2045		159774	
496				3060	157529	
AV	0481	159220				
497			0925		158995	
498			1985		157235	
499				3730	155490	
AV	1651	157155				
500			3434		153721	
501			2060		155095	
502			1620		155535	
503			1520		154635	
504			1150		156005	
505			1600		155555	
506			2291		154864	
507			0595		156460	
508			1045		156115	
509			0415		154740	

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000210

CONTRA

nivelamentos CONT

PAG 27

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
510		157155	2045		152210	
511			2265		154890	
512				1021	156120	
	6211	156331				
513			1304		156027	
514			1354		154977	
515			4318		159912	Leitura Falsa
516			3938		153393	
517			1971		154360	
518				1353	155968	
	3210	159178				
519			1357		157822	
520			1358		157820	
521			1053		157325	
522			1320		157798	
523				3316	155298	
	2424	157722				
524			4310		153622	
525			2199		155523	

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000211

CONTRA

nivelamentos

PAG 38

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
525		157922		0018	157904	
"	3495	161299				
526			2047		159252	
527			1364		160935	
528			1400		159899	
529			2364		159035	
530				3536	157869	
"	2225	160094				
531			3854		156240	
532			3528		156566	
533			2320		157774	
534				0114	159220	
"	3882	163882				
535			2266		161596	
536				0434	163448	
"	3783	167231				
537			2019		165212	
538				0527	166704	

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000212

CONTRA

nivelamentos

PAG 39

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudanca	cotas	observações
538	1194	167888			166654	
539			24316		167392	
540			24447		167381	
541			1157		166681	
542				34570	164378	
"	0001	164379				
543			19313		165146	
544			26557		161722	
545			35111		160868	
546				39653	160416	
"	0474	160596				
547			27889		157892	
548				31676	156620	
"	0316	157936				
548			25525		154481	
549			39336		152070	
550			33910		153616	
551				11174	155032	
"	0840	156672				

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RN-11

2917 152755

000213

CONTRA

nivelamentos

PAG. 40

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
5551	3922	159754			155832	
5552			2287		157467	
5553				0366	159888	
"	3910	163798				
5554			2082		161716	
5555				0148	163650	
"	3792	166048				
5556			1805		165143	
5557			0900		166948	
5558				0309	166739	
"	3600	170379				
5559			2430		167950	
5560			1305		169034	
5561			1464		167875	
5562			2016		168323	
5563			1856		168423	
5564			2199		168140	
5565				3391	166948	

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000214

CONTRA
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estacas	visadas a ré	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
611			2825		156178	
612				3359	155644	
"	0042	155692				
613			1492		154[illegible]	
614				3382	152310	
"	0287	152597				
615			1115		151482	
616			1349		151248	
617			2350		150247	
618			0472		152125	
619			3175		149422	
620			1582		151015	
621				0870	151727	
"	3890	155617				
622			2012		153605	
623			0438		155179	
624			2778		152839	
625			2640		152977	
626				0158	155459	

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CONTRA

nivelamentos

PAG 41

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
565	0440	167 389			166918	
566			1791		165597	
567			3297		164191	
568			2678		164710	
569			1751		165637	
570			3202		164186	
571				1906	166382	
	3898	170280				
572			2325		167959	
573				1006	169274	
	3942	172216				
574			2143		171073	
575				1600	170616	
	3527	174143				
RN-12			3055		173088	
576			2529		173614	
577			2651		173492	
578			2878		173264	
579			2172		173971	

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CONTRA
nivelamentos

PAG 42

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
580		176143	1447		174696	
581			0819		175324	
581-23			0960		175180	
582			1259		174884	
583			1703		174440	
584			2496		173647	
585				3670	172473	
"	0112	172585				
586			1686		170899	
587			3186		169399	
588				3792	168793	
"	0225	169018				
589			0965		168053	
590			1375		167643	
591			2274		166744	
592			3116		165902	
593				3598	165620	
"	0362	165982				
594			2134		163848	
595			2226		163756	

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CONTRA

nivelamentos

PAG 43

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
596		165982	2420		163562	
597			2630		163352	
598			2610		163372	
599			2426		163558	
600				2029	163953	
"	1540	165493				
RN-13			1228		164269	
601			1372		164121	
602				3864	161629	
"	0170	161799				
603			1654		160145	
604				2220	158579	
"	0424	159003				
605			2243		156760	
606			3469		155534	
607			3167		155836	
608			3635		155368	
609			3583		155420	
A10			3898		155105	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudança		
RN-K	2970	158429			155459	
626			2255		156174	
627			1477		156652	
628			1339		157099	
629			3904		154425	
630			3237		155192	
631				1285	157144	
"	3917	161061				
632			2017		159044	
633			1087		159974	
634			1300		159761	
635			1422		159639	
RN-14				0358	160703	
" "	3827	164530				
636			3380		161150	
AUX				0292	164238	
"	3763	168001				
637			3291		164710	
638				0627	167374	

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nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
638	2942	170316			167374	
639			1520		168796	
640			1656		168660	
641			1538		168778	
642				1389	168927	
"	3963	172890				
643			2411		170479	
644			1418		171472	
645			1083		171807	
646			0505		172385	
647			0645		172245	
648			1433		171457	
649			1800		171090	
650			1140		171750	
651				9667	172223	
	2489	174712				
652			2959		171753	
653			2431		172281	
654			1690		173022	

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000220

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
655		174712	1026		173686	
656				0508	174204	
"	1341	175545				
657			0911		174634	
658			0828		174717	
659			1473		174072	
660			2975		172570	
661				3940	171605	
"	1288	172893				
662			1792		171101	
663			[illegible]		170774	
664			[illegible]		170693	
665				2173	172720	
"	3025	175745				
666			2462		173283	
667			2010		173735	
668			1554		174191	
669			0875		174870	
670			0577		175168	

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000221

nivelamentos

PA 248

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
671		175745	0368		175377	
672			0265		174880	
673				2178	173567	
"	0659	173626				
674				3927	169699	
"	2529	172228				
675			3960		168268	
676				0889	171336	
"	3640	174976				
677			1486		173500	
678			1713		175673	
679			1921		173055	
680				0225	174761	
"	1049	175810				
681			1256		174554	
682			2374		173436	
683			3096		172714	
684			3241		172569	
684+6.5			3342		172468	EXP. DA ESTRADA CARROSVEL

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000222

nivelamentos

PAG 49

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
685		175810	3130		172680	
686				1726	174084	
"	3896	176980				
687			1755		175225	
688			1507		175473	
689				1803	175177	
"	0098	175275				
690			0946		174329	
691			1836		173439	
692				2873	172402	
"	0229	172631				
693			3246		169385	
694				3984	168647	
"	0582	169289				
695			2021		167268	
696			2961		166268	
AVX				3748	165481	
"	0108	165589				
697			0984		164605	
			1567		164022	

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000223

nivelamentos

PAG 50

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
698		165589	2036		163553	
699			2587		163002	
700			3165		162424	
701			3113		162476	
702			3110		162479	
703				3682	161907	
"	0702	162809				
704			0596		162213	
705			1805		161.004	
706				3677	159132	
"	0195	159327				
707			1867		157460	
708			2856		156471	
709				3946	155381	
"	0190	155571				
710			1587		153984	
711			2255		153316	
712			2912		152659	
713			3340		152231	

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000224

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CONTRA

nivelamentos

PAG.51

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
714		155571	3489		152082	
715			2820		152751	
716				0210	155361	
"	3530	158891				
717			1164		157727	
718			1109		157789	
719			1540		157351	
720			1708		157183	
721			2642		156249	
722				3331	155560	
"	0148	155708				
723			2665		153043	
724			1890		153818	
725			2820		152888	
726			2119		152589	
727			2637		153071	
728				0468	156640	
"	3892	159138				
729			3520		155618	

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000225

nivelamentos

PAG. 52

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
730		159138	2762		156376	
731				0177	158961	
"	3375	162296				
732			1036		161260	
733			1160		161136	
RN-16			0661		161635	
734			1817		160479	
735				3351	158945	
"	0658	159603				
736			3221		156382	
737			2050		157553	
738			2615		157000	
739				0006	159597	
"	385	163487				
740			1986		161501	
741			0454		163033	
742			0914		162573	
743			1420		162067	
744			2635		160852	

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000226

nivelamentos

PAG 53

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
745		163487		3338	160149	
"	0335	160484				
746			1611		158873	
747				3047	157437	
"	0304	157741				
748			1020		156721	
749			2956		154785	
750			3643		154098	
751			4795		152946	
752			4508		152233	
753			2910		154831	
754			1896		155845	
755				0643	157098	
"	3833	160931				
756			2267		158664	
757			1295		159636	
758				0332	160599	
"	3504	164503				
759			1720		160783	

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0671

nivelamentos

PAG. 54

estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
760		164503		03305	164198	
"	3813	168011				
761			2056		165956	
762			1097		166914	
763			0656		167355	
RN			0625		167386	
764			0816		167195	
765			1189		166822	
766			1328		166683	
767			1292		166719	
768			1100		166911	
[illegible]				01711	167340	
"	3220	171170				
770			3461		167709	
771			3044		168126	
772			2144		169026	
773			0990		170180	
774				0282	170888	

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000228

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nivelamentos

PAG.55

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
774	3203	174091			170888	
775			2203		171888	
776			1437		172654	
777			0687		173404	
778				0113	173978	
"	2368	176346				
779			1369		174977	
780			1497		174849	
781			1119		175227	
782			0878		175468	
783			0900		175446	
784			1131		175215	
785			1988		174355	
786				2905	173441	
"	0171	173612				
787			1072		172540	
788			1350		172262	
789			1787		171829	
790			2295		171317	

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000229

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nivelamentos

PAG. 56

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
791		173612	2591		171021	
792			1683		171929	
793			1120		172492	
794				0759	172853	
"	1916	174769				
795			1378		173391	
796			1336		173433	
797			1569		173200	
798				2528	172241	
"	0155	172396				
799			0988		171408	
800			1508		170888	
801			2316		170080	
802				3008	169388	
"	0124	169512				
803			1580		167932	
804			2730		166782	
805			2786		166726	
806			3061		166451	

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nivelamentos

PAG 57

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
RN		169512	2981		166591	
807				3736	165776	
"	2782	168558				
808			3188		165370	
809			2680		165878	
810			2155		166403	
811			0818		167740	
812			0422		168136	
813			1225		167333	
813+9,0				0903	167655	
"	1414	169069				
813+16,0			0681		167750	
814			1726		167343	
815			3270		165779	
816			2920		166149	
817				0478	168591	
"	3886	172477				
818			2919		169558	
819				0934	171543	

NCD ACMITEC REF 1009

000231

nivelamentos

PAG-58

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
819	3027	174570			171543	
820			1335		173235	
821				0155	174415	
"	3363	177778				
822			2629		175149	
823			2103		175679	
824			1393		176385	
825			1304		176474	
826				0944	176834	
"	1332	178166				
827			1237		176929	
828			1072		177094	
829			1119		177047	
830			1508		176658	
831			2087		176079	
832				2879	175287	
"	0181	175468				
833			1132		174336	
834			2289		173179	
835				3060	172408	

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000232

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
835	0098	172506			172408	
836			1387		171119	
837			4127		168329	
A-1				3440	169066	
"	0134	169200				
838			1345		167855	
839			3065		166135	
840			3109		166081	
841			3380		165820	
A-1X				3900	165900	
"	0319	165619				
842			0631		164985	
843			1133		164486	
844			2961		162658	
845				3087	162532	
"	0304	162836				
846			2337		160499	
847			2740		160096	
848			2323		160513	

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000233

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante		cotas
			intermediária	mudança	
849		162836	1623		161213
850			1791		161045
851			1186		161650
852				0432	162404
"	3471	165875			
853			2010		163822
854				0738	165137
"	3931	169068			
855			2053		167015
856				0932	168136
"	3582	171546			
857			2572		169023
858			1425		170121
859			1243		170473
860			1162		170354
861			1222		170294
861+20				1303	170243
"	0155	170368			
862			1280		169088

MOD ROMITEC REF 1009

observações

000234

Nº 07

CONTRA
nivelamentos

PAG 61

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
863		170368	2050		168318	
864			2244		168124	
865			3427		166941	
866			2959		167409	
867			3284		167084	
868			2991		167377	
869			3151		167217	
RN 19				3191	167177	
"	0894	168071				
870			0875		167196	
871			1737		166334	
872			2295		165776	
873			4470		163601	
874			2532		165539	
875			2483		165588	
876			2588		165483	
877			2023		166048	
878				2470	165601	

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000235

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
878	0246	165847			165601	
879			0872		164975	
880			1743		164104	
"				5499	162348	
"	2174	164522				
882			3758		160764	
883			2038		162484	
884				0969	163552	
"	3896	167449				
885			2732		164717	
886			1432		166017	
887				0054	167395	
"	3970	171355				
888			1318		170037	
889				0074	171281	
"	2585	173866				
890			2047		171819	
891			1623		172243	
892			1405		172461	

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000236

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
893		173866	1393		172473	
894			1083		172783	
895				2746	171120	
"	0523	171643				
896			1373		170270	
897			2381		169262	
898			3134		168509	
899			2669		168974	
900			2704		168939	
901			1940		169703	
RN-20			2209		169434	RN 20 SOBRE ROCHA 15m A ESQ. DA EST 901
902			1176		170467	
903				2431	171012	
"	3971	174983				
904			3795		171188	
905			3110		171873	
906			2172		172811	
907				0630	174353	

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000237

1210

nivelamentos

PAG 64

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
908	3970	178303			174353	
908			1875		174428	
909				0299	178024	
"	3948	181972				
910			1704		180268	
911				0420	181552	
"	3457	185009				
912			2203		182806	
913				0738	184271	
"	3567	187838				
914			2325		185513	
915				1000	186838	
"	3827	190665				
916			2750		187915	
917			1879		188786	
918			1159		189506	
919			0877		189788	
920			1700		188965	
921			1773		188892	

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000238

nivelamentos

PAG 65

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
922		190665	1450		189215	
923				1200	189465	
"	1768	191233				
924			1375		189858	
925			1245		189988	
926			1394		189839	
927			1671		189562	
928			2201		189032	
929			2630		188603	
930			3205		188028	
931				3561	187672	
"	0410	188082				
932			0810		187272	
933			1210		186872	
934			1560		186522	
935			1982		186100	
936			2526		185556	
937			3010		185072	
938			3301		184781	

MCD ROMITEC REF 1009

000239

nivelamentos

PAG 66

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
939		188082	3284		184798	
940			2806		185276	
941			2400		185682	
942			2159		185923	
943			1801		186281	
944			1292		186790	
945				0845	187237	
"	1740	188977				
946			1559		187418	
947			1328		187649	
948			1112		187865	
949			0880		188097	
950			0890		188087	
951			1220		187757	
952			1400		187577	
953			1729		187248	
954			1656		187321	
PN 21			1509		187468	
955				1920	187057	

MCO RCMITEC REF 1009

000240

nivelamentos

PAG. 67

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
955	2470	189527			187057	
956			1825		187702	
957			1511		188016	
958			0933		188594	
959			0686		188841	
960			1490		188037	
961				2977	186550	
"	0167	186717				
962			2032		184685	
963				3424	183293	
"	0174	183467				
964			1488		181979	
965			3130		180337	
966				3825	179642	
"	0231	179873				
967			1021		178852	
968			2995		176878	
969			4182		175691	
AUX				3871	176002	

MOD ROMITEC REF 1009

000241

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
AVX	0583	176565			176002	
970			1869		174696	
AVX				3603	179962	
"	0647	173009				
971			1906		171103	
972			4112		168897	
973			4864		168145	
974			4120		168889	
975			1339		171670	
976			1195		171814	
976+12,0			1501		171508	
977				1530	171320	
"	0174	171503				
978			1484		170019	
979			2301		169202	
980			3485		168018	
981			4183		167320	
981+9,0				2816	168687	

MCD ROMITEC REF 1009

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
981+9	0585	169272			168687	
982			2624		166648	
983			3397		165875	
Aux				3904	165368	
"	0900	166268				
984			1480		164788	
985			2465		163803	
986				2955	163.313	
"	0338	163651				
987			1492		162159	
RN-22			1244		162407	
988				2528	161123	
"	0143	161266				
989			0643		160623	
990			0901		160365	
991			1349		159917	
992			2012		159254	
993				2984	158282	

MOD ROMITEC REF 1009

000243

965

nivelamentos

PAG 70

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
993	0160	158442			158282	
994			1293		157149	
995			2496		155946	
996				3549	154893	
"	0481	155374				
997				2213	153161	
"	0138	153299				
998				2105	151194	
"	0142	151336				
999				2278	149058	
"	0992	150150				
1000			3272		146878	
1000+12,3			3062		147095	
1001			2623		147427	
1002			2531		147579	
1003				0965	149085	
"	3912	152997				
1004			2748		150249	
1005			1632		151365	

MCD ROMITEC REF 1009

000244

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
1005+7		152997	1967		151730	
1006			0752		152245	
1007				0500	152490	
"	3682	156172				
1008			3761		152411	
1009			2733		153439	
1010			1926		154246	
1011			1495		154677	
PVA				0204	155968	
"	3798	159766				
1012			3290		156476	
1013				0365	159401	
"	3780	163181				
1013+10			2676		160505	
1014			2350		160831	
1015				0082	163099	
"	3226	166325				
1016				0243	166082	

MCD ROMITEC REF 1009

000245

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
1016	3428	169510			166082	
1017				0298	169212	
0	3539	173151				
1018			1438		171713	
1019			0905		172246	
RN-77			1147		172004	
1020			1548		171603	

MOD ROMITEC REF 1009

000246

3.7 - CADERNETAS DO NIVELAMENTO DAS SEÇÕES TRANSVERSAIS

CADERNETA DE NIVELAMENTO DAS SECÇÕES Nº 01

nivelamentos DAS SECÇÕES

DAS 01

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
0	2830	102.830			100.000	
-5.017					98.833	
-[illegible]			[illegible]		100.105	
2	[illegible]	102.827			101.238	
+5[illegible]			1.3[illegible]		101.141	
+150 E			[illegible]42		101.285	
4	1430	102.825			101.395	
+150 D			[illegible]		101.365	
[illegible]			[illegible]		101.215	
[illegible]	[illegible]	102.821			101.091	
[illegible]					101.174	
[illegible]			[illegible]		101.316	
6	[illegible]	102.829			101.327	
[illegible]			[illegible]		101.408	
+150 E			[illegible]		101.250	

MOD. ROMITEC REF. 1309

000248

nivelamentos

IAG-02

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
10	[illegible]	102829			99283	
+15,00			[illegible]		99416	
+30,00			[illegible]		99362	
20	[illegible]	102824			99194	
+15,00			[illegible]		99234	
+30,00			[illegible]		99144	
30	[illegible]	102833			99045	
+15,00			[illegible]		98[illegible]3	
+30,00			[illegible]		98[illegible]5	
[illegible]		102824			101302	
[illegible]			[illegible]		100154	
[illegible]			[illegible]		101494	
40	[illegible]	104553			102985	
+15,00			[illegible]		102853	
+30,00			[illegible]		102921	

MOD ROMATEC REF 1009

000249

nivelamentos

PAG 03

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
91	2548	108809			105967	
[illegible]			[illegible]		1030116	[illegible]
[illegible]			[illegible]		106[illegible]9	
[illegible]	[illegible]	110378			108055	
[illegible]			[illegible]		107053	
[illegible]			[illegible]		109028	
94	2042	108011			105962	
[illegible]			2562		103448	
[illegible]			[illegible]		106288	
		111015			108[illegible]	
[illegible]					107929	
[illegible]			[illegible]		107[illegible]23	
[illegible]	[illegible]	114572			113332	
[illegible]			[illegible]		114162	
[illegible]					102552	

VCD ROMITEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
		114567			113151
					114555
					110317
		117041			115757
					117039
					113861
		124542			122224
					123916
					119902
		128366			127995
					128361
					127176
		135556			133151
					133661
					132911

MOD. ROMITEC REF. 1009

observações

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	138,844			137,522	
[illegible]			[illegible]		136,826	
[illegible]			[illegible]		136,504	
[illegible]	[illegible]	143,233			140,827	
[illegible]			[illegible]		140,637	
[illegible]			[illegible]		141,047	
[illegible]	[illegible]	146,416			143,801	
[illegible]			[illegible]		143,036	
[illegible]			[illegible]		143,356	
[illegible]	[illegible]	145,922			145,624	
[illegible]			[illegible]		145,622	
[illegible]			[illegible]		145,142	
[illegible]	[illegible]	149,653			146,879	
[illegible]			[illegible]		146,143	
[illegible]			[illegible]		147,632	

VICO ROMITEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	149 165 1			148 5 5 7	
[illegible]			[illegible]		147 3 7 1	
[illegible]			[illegible]		147 2 8 1	
[illegible]	[illegible]	153 231			151 6 7 7	
[illegible]			[illegible]		149 4 3 1	
[illegible]			[illegible]		152 3 6 1	
[illegible]	[illegible]	156 579			154 4 5 9	
[illegible]			[illegible]		154 4 1 9	
[illegible]			[illegible]		155 5 0 9	
[illegible]	[illegible]	156 571			155 5 0 1	
[illegible]			[illegible]		155 0 5 1	
[illegible]			[illegible]		156 1 4 1	
[illegible]	[illegible]	156 576			154 0 4 4	
[illegible]			[illegible]		153 2 1 6	
[illegible]			[illegible]		154 1 6 6	

MOD ROMITEC REF 1909

000253

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	154140			150912
[illegible]			[illegible]		150145
[illegible]			[illegible]		151400
[illegible]	[illegible]	146635			146009
[illegible]			[illegible]		146139
[illegible]			[illegible]		146414
[illegible]	[illegible]	142748			140395
[illegible]			[illegible]		140348
[illegible]			[illegible]		140058
	[illegible]	135496			132700
[illegible]			[illegible]		133076
[illegible]			[illegible]		132336
[illegible]	[illegible]	124088			120418
[illegible]			[illegible]		120536
[illegible]			[illegible]		120143

MOD ROMITEC REF 1009

observações

000254

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observaçoes
-	[illegible]	116964			114433	
[illegible]			[illegible]		115724	
[illegible]			4150		112464	
-	[illegible]	114826			112,724	
			[illegible]		114196	
[illegible]			[illegible]		111506	
[illegible]	[illegible]	114826			114,421	
[illegible]			[illegible]		114816	
[illegible]			[illegible]		113216	
-	[illegible]	111[illegible]			111771	
[illegible]			3[illegible]		111316	
[illegible]			[illegible]		110956	
[illegible]	[illegible]	112266			109613	
[illegible]			[illegible]		109228	
[illegible]			[illegible]		110408	

MOD ROMITEC REF 1009

000255

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante		cotas
			intermediária	mudança	
[illegible]	[illegible]	112268			108806
[illegible]			[illegible]		108328
[illegible]			[illegible]		109413
[illegible]	[illegible]	112268			110822
[illegible]			[illegible]		110268
[illegible]			[illegible]		111178
[illegible]	[illegible]	108702			105588
[illegible]			[illegible]		105422
[illegible]			[illegible]		105417
[illegible]	[illegible]	108032			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		104212
[illegible]	[illegible]	105437			103322
[illegible]			[illegible]		101927
[illegible]			[illegible]		102657

MOD. ROMITEC REF. 1309

observações

000256

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
[illegible]	[illegible]	106 137			103577	
[illegible]			[illegible]		103367	
[illegible]			[illegible]		103717	
[illegible]	[illegible]	106 137			104 [illegible]57	
[illegible]			[illegible]		10424[illegible]	
[illegible]			[illegible]		104807	
	[illegible]	106 137			104 [illegible]33	
[illegible]			[illegible]		104607	
[illegible]			[illegible]		104837	
[illegible]	[illegible]	106 [illegible]56			104[illegible]55	
[illegible]			[illegible]		104[illegible]66	
[illegible]			[illegible]		104686	
[illegible]	[illegible]	109011			109400	
[illegible]			[illegible]		106661	
[illegible]			[illegible]		109011	

MOD ADMITEC REF 1009

000257

nivelamentos DAS SEÇÕES

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas
[illegible]	[illegible]	108,278			106,288
[illegible]			[illegible]		105,828
[illegible]			[illegible]		108,078
[illegible]	[illegible]	108,273			106,313
[illegible]			[illegible]		105,938
[illegible]			[illegible]		106,693
[illegible]	[illegible]	108,270			106,088
[illegible]			[illegible]		105,910
[illegible]			[illegible]		106,410
[illegible]	[illegible]	108,276			106,234
					105,876
[illegible]			[illegible]		106,596
[illegible]	[illegible]	108,276			106,636
[illegible]			[illegible]		106,276
[illegible]			[illegible]		106,016

MOD ROMITEC REF 1009

observações

000258

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	0,930	108301			107374
[illegible]			[illegible]		107054
[illegible]			[illegible]		107884
[illegible]	[illegible]	108272			106932
[illegible]			[illegible]		106[illegible]
[illegible]			[illegible]		107[illegible]
[illegible]	[illegible]	108211			106877
[illegible]			[illegible]		106281
[illegible]			[illegible]		107011
[illegible]		108272			105652
[illegible]			[illegible]		105492
[illegible]			[illegible]		106182
[illegible]	[illegible]	108271			105460
[illegible]			[illegible]		105231
[illegible]			[illegible]		105291

MOD POVITEC REF 1009

observações

000259

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudanca	cotas
[illegible]	[illegible]	108272			104932
[illegible]					104822
[illegible]					104932
[illegible]	[illegible]	105259			104952
[illegible]					104849
[illegible]					104949
[illegible]	[illegible]	108270			105410
[illegible]					105330
[illegible]					105500
	[illegible]	105559			105229
[illegible]					105123
[illegible]					105349
[illegible]	2621	107255			105334
[illegible]					105255
[illegible]					105395

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DOC 12

observações

000260

nivelamentos

PAG 14

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
1180	2018	107.055			105937	
+150 D			0950		107105	
+150 E			[illegible]		105464	
1[illegible]	1973	107957			105974	
+150 D			1420		105537	
+150 E			[illegible]		105763	
1[illegible]4	1970	107958			106088	
+150 D			1110		106[illegible]	
+150 E			[illegible]		106[illegible]	
1[illegible]6	[illegible]	107957			106.237	
+1[illegible]			[illegible]		106[illegible]	
+150 E			[illegible]		106[illegible]	
1[illegible]	[illegible]	107021			106524	
+150D			[illegible]		106691	
+150 E			[illegible]		106412	

MOD ROMITEC REF 1009

000261

nivelamentos

PAG 15

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	109014			106744
[illegible]			[illegible]		106804
[illegible]			[illegible]		106879
	[illegible]	109017			107297
[illegible]			[illegible]		107282
[illegible]			[illegible]		107232
[illegible]	[illegible]	109017			107765
[illegible]			[illegible]		107801
[illegible]			[illegible]		107797
[illegible]	[illegible]	109017			108387
[illegible]			[illegible]		108332
[illegible]			[illegible]		108342
[illegible]	[illegible]	111776			109252
[illegible]			[illegible]		109276
[illegible]			[illegible]		109216

observações

MOD ROMITEC REF 1009

nivelamentos

Pag 16

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	111736			110046	
[illegible]			[illegible]		109016	
[illegible]			[illegible]		109201	
[illegible]	[illegible]	111572			111016	
[illegible]			[illegible]		111157	
[illegible]			[illegible]		110867	
154	[illegible]	115135			114562	
[illegible]			[illegible]		114405	
[illegible]			[illegible]		114270	
[illegible]	[illegible]	115[illegible]			117090	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	116[illegible]			117423	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		117253	

MOD ROMITEC REF 009

000263

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
165		117408			115956	
-145					116286	
16					115366	
16		115853			114021	
-15					114133	
-16					113543	
16		115853			113041	
-150					113143	
-150					112903	
16		115850			114 5.5	
-15						
-150					114	
162		115570			117202	
-150					112210	
-150					112020	

MOD ROMITEC REF 1009

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
170	[illegible]	118585			114959	
+150D					115165	
+150E					115[illegible]	
172	2225	118148			116213	
+150D					116988	
+150E					116008	
174	[illegible]	120399			117899	
+150D					118139	
+150E					117[illegible]	
176		121[illegible]			120418	
+150D					[illegible]	
+150E					120526	
178	+	125329			124841	
+150D					124539	
+150E					124519	

MOD ROMITEC REF 209

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas
1 [illegible]	[illegible]	128,573			127,973
+150,00			[illegible]		127,823
+150,05					127,473
1 [illegible]	[illegible]	130,367			128,867
+150,00			[illegible]		129,867
+150,05			[illegible]		128,057
1 [illegible]	[illegible]	129,129			127,659
+150,00			[illegible]		127,469
+150,05			[illegible]		127,669
1 [illegible]		128,150			126,700
[illegible]			[illegible]		126,[illegible]
+150,05			[illegible]		126,524
1 [illegible]	[illegible]	126,018			124,365
+150,00			[illegible]		125,708
+150,05			[illegible]		122,862

[illegible] ROMITEC REF [illegible]

Dia [illegible] 19

observações

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
100		126210			124713
+150D					123485
+150E					124835
102		129651			126453
+150D					125671
+150E					128171
104		129641			129181
+150D					128151
+150E					129191
106		131048			129205
+150D					128388
+150E					130[illegible]3
108		132957			132352
+150D					131897
+150E					132237

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observaçoes

nivelamentos DAS SEÇÕES

PAG 21

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
200	[illegible]	[illegible]			133247	
+150 D					131356	
+150 E					132[illegible]2	
200	[illegible]	136.37			135468	
+150 D			[illegible]		135050	
+150 E			[illegible]		136[illegible]	
204	[illegible]	138.538			137098	
+150 D			[illegible]		137076	
+150 E			[illegible]		137568	
206	[illegible]	[illegible]			134622	
+150 D					[illegible]	
+150 E			[illegible]		134682	
208	[illegible]	[illegible]			134932	
+150 D			[illegible]		134302	
+150 E			[illegible]		134502	

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nivelamentos

PAG 22

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
[illegible]	[illegible]	137,579			136,109	
+150 D			[illegible]		135,919	
+150 E			[illegible]		[illegible]	
[illegible]	[illegible]	137,137			135,777	
+150 D			[illegible]		135,067	
+150 E			[illegible]		136,267	
[illegible]	[illegible]	132,803			131,731	
+150 D			[illegible]		131,213	
+150 E			[illegible]		132,533	
[illegible]		129,333			127,773	
+150 D					127,133	
+150 E			[illegible]		128,593	
[illegible]	[illegible]	136,510			133,119	
+150 D			[illegible]		132,520	
+150 E			[illegible]		134,970	

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nivelamentos

PAG 22

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
[illegible]	[illegible]	137[illegible]			136,583	
+1[illegible]			[illegible]		135,463	
+1[illegible]			[illegible]		1[illegible]	
[illegible]	[illegible]	137[illegible]			135,095	
+1[illegible]			[illegible]		1[illegible]65	
+1[illegible]			[illegible]		134,555	
[illegible]	[illegible]	134,445			132,885	
+150			[illegible]		131,085	
+150			[illegible]		133,175	
[illegible]	14[illegible]	136,710			135,210	
+1[illegible]			[illegible]		13[illegible]	
+150			[illegible]		135,300	
[illegible]	154	135,[illegible]			134,475	
+150			[illegible]		133,715	
+150			[illegible]		1[illegible]	

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000270

nivelamentos

DOC 24

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observaçoes
[illegible]	[illegible]	131 627			130 117	
+ 1 400			[illegible]		129 711	
+ 1 500 E			[illegible]		130 5[illegible]	
[illegible]		[illegible]			129 273	
+ 1 500 D			[illegible]		129 7[illegible]	
+ 1 500 E			[illegible]		129 663	
[illegible]	[illegible]	134 255			132 763	
+ 1 500 D			[illegible]		131 214 3	
+ 1 500 E			[illegible]		132 8.4 E	
[illegible]	[illegible]	132 5[illegible]			131 190	
+ 1 500					[illegible]	
+ 1 500 E			[illegible]		130 500	
[illegible]	[illegible]	129 [illegible]			126 959	
+ 1 500 D			[illegible]		126 829	
+ 1 500 E			[illegible]		127 1.7 D	

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	[illegible]	125 [illegible]			124751
+1[illegible]			[illegible]		125091
+1[illegible]			[illegible]		125331
[illegible]	[illegible]	131 [illegible]			129810
+1[illegible]			[illegible]		130160
+1[illegible]			[illegible]		125730
[illegible]	[illegible]	135555			134030
+1[illegible]			[illegible]		133[illegible]5
+1[illegible]			[illegible]		133[illegible]5
[illegible]		136 [illegible]			135722
+1[illegible]					[illegible]
+1[illegible]			[illegible]		135[illegible]
[illegible]		136142			132998
+1[illegible]			[illegible]		131[illegible]
+1[illegible]			[illegible]		133[illegible]

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PÁG 25

observações

000272

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	[illegible]			131567
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]				127659
[illegible]			[illegible]		126639
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	124603			123045
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		123565
[illegible]	[illegible]	[illegible]			126787
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	126020			124640
[illegible]			3040		[illegible]
[illegible]			[illegible]		[illegible]

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DIE-6

observaçoes

000273

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	[illegible]			120974	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]	[illegible]				123144	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]			122062	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]					[illegible]	
[illegible]					[illegible]	
[illegible]	[illegible]	121355			130565	
[illegible]					[illegible]	
[illegible]					[illegible]	

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	[illegible]			127734
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			127849
[illegible]			[illegible]		127460
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	131674			130184
[illegible]			[illegible]		129634
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			133786
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		133091
[illegible]	[illegible]	138543			137043
[illegible]			[illegible]		136 7813
[illegible]			[illegible]		136 [illegible]

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PAG [illegible]

observações

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
2120	1510	139570			138,060	
+1500			1420		138150	
+1525			1720		137850	
[illegible]	1420	139593			138'63	
+1[illegible]			1540		138033	
+1575			2020		137523	
[illegible]	1410	137735			136385	
+1500			1930		136705	
+1550			2000		135735	
[illegible]	[illegible]	140[illegible]			[illegible]352	
+1[illegible]			1[illegible]		138[illegible]	
+1502			1010		138347	
[illegible]	1040	140320			139 080	
+1500			[illegible]		139470	
+1510			[illegible]		138810	

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DIA 22

000276

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	1450	140916			[illegible]	
+1100			[illegible]		139216	
+1500			[illegible]		138512	
[illegible]	1500	140579			139079	
+1500			[illegible]		139132	
+1500			[illegible]		138439	
[illegible]	1450	136282			136862	
+1500			[illegible]		137262	
+1500			[illegible]		136632	
[illegible]	[illegible]	140150			[illegible]	
+1500			[illegible]		139120	
+1500			[illegible]		138150	
[illegible]	1500	143582			142082	
+1500			[illegible]		141382	
+1500			[illegible]		142082	

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000277

nivelamentos [illegible]

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	[illegible]	[illegible]			142210
[illegible]			[illegible]		141889
[illegible]			[illegible]		141310
[illegible]	[illegible]	[illegible]			140351
[illegible]			[illegible]		140133
[illegible]			510		[illegible]
[illegible]	[illegible]	[illegible]			139562
[illegible]			1670		139402
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			1450		[illegible]
[illegible]	1410	[illegible]			141286
[illegible]			1340		[illegible]
[illegible]			[illegible]		[illegible]

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PAG [illegible]

observações

000278

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediária	mudanca	
[illegible]	1250	141473			140013
[illegible]			[illegible]		140215
[illegible]			[illegible]		139472
[illegible]	[illegible]	140 [illegible]			139436
[illegible]			1310		139550
[illegible]			1900		138866
[illegible]	1582	141702			140140
[illegible]			[illegible]		140292
[illegible]			1672		140952
[illegible]	[illegible]	[illegible]			143185
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		142585
[illegible]	1345	146650			145260
[illegible]			[illegible]		145590
[illegible]			[illegible]		145310

MOD ROMITEC REF 009

observações

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	[illegible]			147764
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			148414
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		148144
[illegible]	[illegible]	147231			145751
[illegible]			[illegible]		145731
[illegible]			[illegible]		145811
[illegible]	[illegible]	[illegible]			145101
[illegible]			[illegible]		145331
[illegible]			[illegible]		144751
[illegible]	[illegible]	146231			145351
[illegible]			[illegible]		145431
[illegible]			[illegible]		145101

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observações

000280

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	1420	147391			145921	
[illegible]			1340		146051	
[illegible]			[illegible]		145321	
[illegible]	[illegible]	149656			148206	
[illegible]			1410		148246	
[illegible]			1200		147766	
[illegible]	1430	152749			151319	
[illegible]			[illegible]		150171	
[illegible]			0430		152319	
[illegible]	1500	155029			153529	
[illegible]			[illegible]		151273	
[illegible]			1010		154019	
[illegible]	1340	155501			154161	
[illegible]			[illegible]		153391	
[illegible]			[illegible]		155121	

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000281

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas
[illegible]	[illegible]	153681			152201
[illegible]			[illegible]		152511
[illegible]			[illegible]		151451
	1430	143835			148405
[illegible]			1050		148785
[illegible]			2130		147705
[illegible]	1310	149325			147815
[illegible]			1140		148185
[illegible]			2130		147195
	[illegible]	152722			151329
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		150489
[illegible]	1430	152475			151045
[illegible]			[illegible]		151135
[illegible]			[illegible]		150485

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observações

000282

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
	1490	152325			150895	
			1120		151205	
			[illegible]		150255	
	1410	151805			150395	
[illegible]			1410		150395	
[illegible]			2130		149675	
	1460	149620			148160	
[illegible]			1240		148380	
[illegible]			2150		147470	
	[illegible]	150036			148566	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		147506	
	1470	150481			149011	
[illegible]			1310		149171	
[illegible]			1370		148611	

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000283

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	1400	150278			148798	
[illegible]			1910		149068	
[illegible]			2240		148238	
[illegible]	1600	149228			147828	
[illegible]			1410		148018	
[illegible]			2240		147188	
[illegible]	1430	149255			147805	
[illegible]			1250		148005	
[illegible]			1530		147245	
[illegible]	1600	148763			147313	
[illegible]			1300		147473	
[illegible]			1950		146813	
[illegible]	1560	147957			146397	
[illegible]			1540		146617	
[illegible]			1910		146067	

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000284

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
9,20	1,400	149,293			147,893	
+15,00			1,630		147,663	
+15,05			1,720		147,573	
0,00	1,440	151,327			149,887	
+15,00			1,710		149,617	
+15,05			1,283		150,042	
3,74	1,430	153,375			151,945	
+15,00			1,330		151,845	
+15,05			1,140		152,235	
7,35	1,244	155,241			154,131	
+15,00			1,720		153,521	
+15,05			1,411		154,230	
3,81	1,200	157,062			155,862	
+15,00			1,632		155,430	
+15,05			1,521		155,542	

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nivelamentos

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estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	1480	156554			155074	
+15 00			1340		155214	
+15 05			1835		154664	
[illegible]	1[illegible]	156424			155082	
[illegible] 00			1260		155164	
+15 05			1980		154444	
[illegible]	1430	156386			154936	
+15 00			1810		155076	
+15 05			1[illegible]		154506	
[illegible]	[illegible]	155554			154134	
+15 00			1430		154124	
+15 05			1910		153644	
3[illegible]	1500	155292			153792	
+15 00			1500		153792	
+15 05			2010		153282	

MOD ROMITEC REF 009

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
290	1210	157832			156622	
+150 0			1220		156612	
+151 6			1532		156300	
292	1249	157832			155392	
+150 3			1510		156322	
+154 4			1756		156071	
294	1388	157771			154386	
+150 2			1416		154355	
+154 3			1624		154147	
296	1380	155467			154077	
+150 3			1015		154052	
+154 3			1817		153516	
298	1389	156098			154710	
+170 0			1401		154691	
+150 4			1412		144416	

MCD ROMITEC REF 909

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]

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observações

000288

nivelamentos [illegible]

PAG 12

estacas	visadas à re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
410	1,43	158887			157467	
+150 D			1,[illegible]		157197	
+150 E			1,[illegible]		157117	
412	1,4[illegible]	156875			155495	
+150 D			1,[illegible]		155055	
+150 E			1,[illegible]		155245	
414	1,[illegible]	156887			155367	
+150 D			1,[illegible]		155317	
+150 E			1,[illegible]		155447	
416	[illegible]	156675			154545	
+150 D			[illegible]		154115	
+150 E			1,[illegible]		154565	
418	1,4[illegible]	156440			154950	
+150 D			[illegible]		154680	
+150 E			[illegible]		154460	

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PAG 43

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]	[illegible]	156143			154213	
+15 00			[illegible]		154513	
+15 02			[illegible]		154833	
[illegible]	[illegible]	155978			154408	
+15 00			[illegible]		154198	
+15 02			[illegible]		154568	
494	[illegible]	155557			153997	
+15 00			[illegible]		153687	
+15 02			[illegible]		153857	
[illegible]	[illegible]	155395			153395	
+15 00			[illegible]		153515	
+15 02			[illegible]		153205	
40	190	154795			153305	
+15 00			[illegible]		153235	
+15 02			[illegible]		153475	

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nivelamentos

PAG 44

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	153811			152536	
[illegible]			[illegible]		152311	
[illegible]			[illegible]		152941	
[illegible]	[illegible]	153760			152050	
[illegible]			[illegible]		152280	
[illegible]			[illegible]		152240	
[illegible]	[illegible]	153760			151292	
[illegible]			[illegible]		151450	
[illegible]			[illegible]		151385	
[illegible]	[illegible]	153750			150381	
[illegible]					[illegible]	
[illegible]			[illegible]		150041	
[illegible]	[illegible]	151666			150086	
[illegible]			[illegible]		149826	
[illegible]					149426	

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nivelamentos

PAG 45

estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	151376			149936	
[illegible]			[illegible]		149846	
[illegible]			[illegible]		149706	
[illegible]	[illegible]	151574			150114	
[illegible]			[illegible]		150084	
[illegible]			[illegible]		150294	
[illegible]	[illegible]	152[illegible]0			151079	
[illegible]			[illegible]		151149	
[illegible]			[illegible]		151199	
[illegible]	[illegible]	153126			152646	
[illegible]			[illegible]		152756	
[illegible]			[illegible]		152726	
[illegible]	[illegible]	153394			153891	
[illegible]			[illegible]		153885	
[illegible]			[illegible]		153641	

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nivelamentos

PAG 46

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudanca	cotas	observações
[illegible]	[illegible]	153126			153616	
[illegible]			[illegible]		153706	
[illegible]			[illegible]		153416	
[illegible]	[illegible]	154218			152718	
[illegible]			[illegible]		152682	
[illegible]			[illegible]		152438	
4514	[illegible]	153419			151979	
[illegible]	[illegible]		[illegible]		151919	
[illegible]			[illegible]		151689	
[illegible]	[illegible]	153015			151512	
[illegible]			[illegible]		151376	
[illegible]			[illegible]		151686	
[illegible]	[illegible]	152631			151181	
[illegible]			[illegible]		151291	
[illegible]			[illegible]		150851	

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nivelamentos

PAG 47

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
440	1,42	153051			151621	
[illegible]			1,240		151711	
[illegible]			1,250		151901	
[illegible]	1,600	154646			153066	
[illegible]			[illegible]		152936	
[illegible]			1,210		153306	
[illegible]	1,640	154401			154061	
[illegible]			1,430		153971	
[illegible]			[illegible]		153621	
[illegible]	[illegible]	154313			155473	
[illegible]			[illegible]		153563	
[illegible]			1,230		155173	
460	1,520	153343			156913	
[illegible]			[illegible]		156353	
[illegible]			[illegible]		154193	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]	[illegible]	168069			166639	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	160383			159423	
[illegible]			[illegible]		153103	
[illegible]			[illegible]		159423	
[illegible]	[illegible]	159595			158115	
[illegible]			[illegible]		157825	
[illegible]			[illegible]		158565	
[illegible]	[illegible]	159472			[illegible]	
[illegible]			[illegible]		157872	
[illegible]			[illegible]		158242	
[illegible]	[illegible]	158192			156631	
[illegible]			[illegible]		156461	
[illegible]			[illegible]		156791	

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nivelamentos

PAG 19

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudanca		
[illegible]	[illegible]	156285			154803	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		154865	
[illegible]	[illegible]	157521			156101	
[illegible]			[illegible]		155041	
[illegible]			[illegible]		156481	
[illegible]	[illegible]	161294			159824	
[illegible]			[illegible]		159666	
[illegible]					159512	
[illegible]	[illegible]	163632			162132	
[illegible]			[illegible]		161932	
[illegible]			[illegible]		162222	
[illegible]	[illegible]	166085			164575	
[illegible]			[illegible]		164475	
[illegible]			[illegible]		164755	

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nivelamentos

PAG 50

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	164036			162603	
[illegible]			[illegible]		162288	
[illegible]			[illegible]		162826	
[illegible]	[illegible]	160011			159361	
[illegible]			[illegible]		159201	
[illegible]			[illegible]		159501	
[illegible]	[illegible]	161310			159810	
[illegible]			[illegible]		159480	
[illegible]			[illegible]		159550	
[illegible]	[illegible]	160171			158771	
[illegible]			[illegible]		158771	
[illegible]			[illegible]		158331	
[illegible]	[illegible]	158619			157239	
[illegible]			[illegible]		157139	
[illegible]			[illegible]		157419	

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000297

nivelamentos

PAG 51

estacas	visadas à re	altura do instrumento	visadas avante		cotas	observações
			intermed ária	mudanca		
[illegible]	[illegible]	153145			153725	
[illegible]			[illegible]		153511	
[illegible]			[illegible]		153185	
[illegible]	[illegible]	157099			155530	
[illegible]			[illegible]		155013	
[illegible]			[illegible]		155809	
[illegible]	[illegible]	157519			156009	
[illegible]			[illegible]		156089	
[illegible]			[illegible]		156419	
[illegible]	[illegible]	155315			154865	
[illegible]			[illegible]		155095	
[illegible]			[illegible]		155062	
[illegible]	[illegible]	157595			156115	
[illegible]			[illegible]		155663	
[illegible]			[illegible]		156193	

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nivelamentos [illegible]

PAG 21-A

estacas	visadas a re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observacões
[illegible]	[illegible]	[illegible]			153215	
[illegible]			[illegible]		152755	
[illegible]			[illegible]		153355	
[illegible]	[illegible]	[illegible]			156125	
[illegible]			[illegible]		154125	
[illegible]			[illegible]		156555	

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000299

06

nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante – intermediária	visadas avante – mudança	cotas	observações
[illegible]	[illegible]	156[illegible]			154[illegible]	
[illegible]			[illegible]		154155	
[illegible]					[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		153[illegible]	[illegible]
[illegible]			[illegible]		153431	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]	[illegible]		[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]		[illegible]			[illegible]	
[illegible]			[illegible]		157392	
[illegible]			[illegible]		157252	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		156561	
[illegible]			[illegible]		[illegible]	

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nivelamentos

PAG 53

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
[illegible]			[illegible]		158 6 5 2
[illegible]			[illegible]		159 0 [illegible]
[illegible]	[illegible]	192 4 0 1			[illegible]
[illegible]			[illegible]		158 6 9 1
[illegible]			[illegible]		160 7 5 1
[illegible]		[illegible]			[illegible]
[illegible]			[illegible]		[illegible]
[illegible]			[illegible]		158 8 2 8
[illegible]	[illegible]	158 7 5 0			[illegible]
[illegible]			[illegible]		155 7 3 0
[illegible]			[illegible]		158 1 0 9

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observações

000301

nivelamentos

00654

estacas	visadas à re	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	161372			[illegible]	
[illegible]			157[illegible]		159609	
[illegible]			[illegible]		1738016	
[illegible]	[illegible]	1638[illegible]6			[illegible]	
[illegible]			[illegible]		1636[illegible]	
[illegible]			[illegible]		161092	
[illegible]	[illegible]	168141			[illegible]	
[illegible]			[illegible]		1671[illegible]	
[illegible]			[illegible]		166379	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		167228	
[illegible]			[illegible]		167597	
[illegible]	[illegible]	1638[illegible]			[illegible]	
[illegible]			[illegible]		1636[illegible]	
[illegible]					1636[illegible]	

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000302

nivelamentos

PAG [illegible]

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudanca	cotas	observações
[illegible]	[illegible]	163260			161715	
[illegible]			[illegible]		162003	
[illegible]			[illegible]		161213	
[illegible]	[illegible]	161630			160400	
[illegible]			[illegible]		159062	
[illegible]			[illegible]		158044	
[illegible]	[illegible]	155871			[illegible]	
[illegible]			[illegible]		152906	[illegible]
[illegible]			[illegible]		155244	
[illegible]	[illegible]	153255			[illegible]	
[illegible]			[illegible]		152110	
[illegible]			[illegible]		154555	
[illegible]	[illegible]	159749			157462	
[illegible]			[illegible]		157207	
[illegible]			[illegible]		157616	

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nivelamentos

PAG 56

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	162683			[illegible]	
[illegible]			[illegible]		162731	
[illegible]			[illegible]		162711	
[illegible]	[illegible]	166585			[illegible]	
[illegible]			[illegible]		164360	
[illegible]			[illegible]		163913	
[illegible]	[illegible]	165131			[illegible]	
[illegible]			[illegible]		167312	
[illegible]			[illegible]		165920	
[illegible]	[illegible]	170340			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		168320	
[illegible]	[illegible]	169882			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

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000304

nivelamentos

PAG 57

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudanca	cotas	observações
564	1445	169[illegible]			168240	
+1[illegible]			2012		167582	
[illegible]			121[illegible]		168981	
566	430	167044			165[illegible]	
+10.7			3825		163[illegible]	
+[illegible]			2625		164[illegible]	
-150[illegible]			1235		[illegible]	
568	1445	166136			164721	
+1510			2353		163573	
-1[illegible]			1220		165916	
[illegible]	45	162775			[illegible]	
-[illegible]			1232		160[illegible]	
+150			1367		164411	
-150[illegible]			1240		162[illegible]	

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000305

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante		cotas
			intermediaria	mudanca	
[illegible]	[illegible]	169286			[illegible]
[illegible]			[illegible]		159556
[illegible]		[illegible]	[illegible]		156[illegible]
[illegible]	[illegible]	173228			[illegible]
[illegible]			1088		171304
[illegible]			2337		170891
[illegible]	[illegible]	175042			[illegible]
[illegible]			[illegible]		173086
[illegible]			[illegible]		173[illegible]2
[illegible]	[illegible]	174620			[illegible]
[illegible]			[illegible]		172[illegible]
[illegible]			[illegible]		173903
[illegible]	[illegible]	176158			[illegible]
[illegible]			[illegible]		174451
[illegible]			[illegible]		[illegible]

MOD ROMTEC REF 009

observações

000306

nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	176142			[illegible]	
[illegible]			[illegible]		174750	
[illegible]			[illegible]		1550617	
[illegible]	1463	173128			[illegible]	
[illegible]			[illegible]		174070	
[illegible]			[illegible]		174070	
[illegible]	1536	172584			[illegible]	
[illegible]			[illegible]		[illegible]	EIXO DA ESTRADA CARROÇÁVEL
[illegible]			[illegible]		[illegible]	
[illegible]	1674	170279			[illegible]	
[illegible]			01334		1697444	
[illegible]			23550		167328	
[illegible]	1575	169024			[illegible]	
[illegible]			07235		[illegible]	
[illegible]			07915		[illegible]	

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nivelamentos

PAG 60

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
[illegible]	1.432	164[illegible]			[illegible]	
[illegible]			0665		160[illegible]	
[illegible]			2332		165[illegible]	
[illegible]	[illegible]	165991			[illegible]	
[illegible]			0446		165[illegible]	EXT. ESTACA CARROÇÁVEL
[illegible]			2105		163[illegible]	
[illegible]	1.428	164[illegible]			[illegible]	
[illegible]			1012		163[illegible]	EXT. DA ESTACA CARROÇÁVEL
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	1.13	164831			[illegible]	
[illegible]			0505		164[illegible]	ROADA DA ESTACA CARROÇÁVEL
[illegible]			2800		162001	

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000308

nivelamentos

PAG 61

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
606	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	LEITO DE GRAVA
[illegible]			[illegible]		[illegible]	
608	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

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nivelamentos DAS SEÇÕES

PAG 68

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
640	[illegible]	157152			155126	
[illegible]			[illegible]		156655	
[illegible]			[illegible]		154205	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		156408	
[illegible]			[illegible]		152928	
64	[illegible]	155703			[illegible]	
[illegible]			[illegible]		154023	
[illegible]			[illegible]		151843	
[illegible]	[illegible]	158692			[illegible]	
[illegible]			1315		157377	
[illegible]			1720		156910	

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000310

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	[illegible]
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	

visadas a ré	altura do instrumento	visadas avante		cotas	observações
		intermediária	mudança		
[illegible]	1537146			[illegible]	
		2325		1521111	
		[illegible]		1536411	
2[illegible]	1677886			165[illegible]	
		4215		1635711	
		2480		1654006	
2[illegible]	1611139			[illegible]	
		[illegible]		1570000	
		[illegible]		1605660	
[illegible]	1623776			[illegible]	
		[illegible]		1575716	
		[illegible]		1621418	
3[illegible]43	1646510			161[illegible]	
		[illegible]		1600[illegible]	
		[illegible]		1607[illegible]	

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nivelamentos

PAG- 05

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]	212	168733			167321	
[illegible]			263		166070	
[illegible]			1658		167075	
[illegible]	1626	170296			168670	
[illegible]			1016		168880	
[illegible]			1817		168480	
[illegible]	2553	171234			168681	
[illegible]			2557		170677	
[illegible]			2126		169156	
[illegible]	1890	172866			170976	
[illegible]			1812		171853	
[illegible]			3346		170866	
[illegible]	2472	172866			170395	
[illegible]			0295		171974	
[illegible]			0658		172208	
[illegible]			3908		171958	

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EXIDIE 47

000313

nivelamentos

PAG 66

estacas	visadas a re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
648	1802	1728 61			[illegible]	
[illegible]			2166		1726 95	
[illegible]			0595		1722 36	
650	1603	1723 91			[illegible]	
[illegible]			2542		1706 44	
[illegible]			0460		1727 31	
652	2452	1724 11			[illegible]	
[illegible]			4724		1699 39	
[illegible]			1602		1730 52	
654	1637	1724 10			[illegible]	
[illegible]			2000		1726 24	
[illegible]			1360		1732 54	
[illegible]			1127		1735 67	

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CIA 1 DE 1657

nivelamentos

PAG. 67

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
654	1,33	175632			174 618	
+ 8,8			16558		173974	EIXO DE ESTRADA
+ 15,5			17557		173875	
+ 15,1			09013		175 319	
658	0,46	175850			174 390	
+ 18,5			15613		174127	EIXO DE EST
+ 15,0			07500		174900	
660	1,43	173993			172 563	
+ 1,1			10215		172911	
+ 1,5			10015		172909	
662	1,823	172929			171 105	
+ 1,5			3785		169143	
+ 3,7			17880		171148	
+ 15,0			32510		169678	

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000315

nivelamentos

PAG 68

estacas	visadas a ré	altura do instrumento	visadas avante intermediaria	visadas avante mudança	cotas	observações
[illegible]	2530	176932			[illegible]	
[illegible] D			5585		[illegible]	
[illegible]			0975		171030	[illegible]
666	2672	175553			[illegible]	
[illegible]			3105		172353	
[illegible]			2870		172683	
667	1561	173253			[illegible]	
[illegible]			2642		[illegible]	
[illegible]			1325		[illegible]	
[illegible]	0625	175853			[illegible]	
[illegible]			0760		175093	
[illegible]			0125		175728	
[illegible]	1625	176320			[illegible]	
[illegible]			1625		174695	
[illegible]			1257		175052	

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000316

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
674	2895	173914			171019	
675			4555		169050	
676			925		171600	
676	1950	172896			171340	
677			2090		170806	
678			1050		171346	
678	1700	174625			173025	
679			4580		170045	
680			0570		174013	
680	1650	175820			174170	
681			1380		174440	
682			0630		175190	
682	2400	175820			173420	
683			2700		172043	
684			2410		173340	

BORRACHA

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PAG 70

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	FINA EST CAMP
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			1562		1306	
[illegible]			2070		1234	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			1585		1752	
[illegible]			[illegible]		[illegible]	
680	0967	1752			[illegible]	
[illegible]			1197		1741	
[illegible]			1085		1742	

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000318

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		[illegible]	R.N.15
[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]			[illegible]		[illegible]	EIXO DA EST.
[illegible]			[illegible]		[illegible]	

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nivelamentos DAS SEÇÕES

PAG-72

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
70 D	1345	162270			162475	
+15,00			1852		162018	
+15,20			1618		162652	EIXO ESTRADA CARROÇÁVEL
+15,00			1929		162320	
70 A	0436	162803			162367	
+15,00			2732		160131	
+12,00			0053		162085	EIXO DA ESTRADA CARA
70 C	3677	162206			158529	
+2,00			4190		158016	
+15,00			3020		159206	
+15,00 E			3095		159111	EIXO DE ESTRADA CARA
70 D	1610	157079			156469	
+15,00 D			2147		155732	
+15,00 E			0062		156016	

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000320

nivelamentos

PAG. 73

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
716	1437	155417			153980	
+1600			1490		153927	
-1505			1412		154005	
718	1436	154142			152656	
+1602			1505		152637	
+1505			1490		152652	
714	1395	153477			152082	
+1500			1412		152065	
[illegible]			[illegible]		152107	
716	2643	147080			155342	
+1500			1557		154310	
-1500			2625		153345	
718	1412	159257			157792	
-1500			3340		153917	
-1500			5312		152417	

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000321

nivelamentos

PAG 74

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	158687			157186	
[illegible]			330		157387	[illegible] CAPROLAYER
[illegible]			[illegible]		158522	
[illegible]	[illegible]	156991			155558	
[illegible]			[illegible]		154488	
[illegible]			[illegible]		155887	EIXO DA EST. CAMP
[illegible]			1330		156661	
[illegible]	[illegible]	155253			153812	
[illegible]			[illegible]		153253	
[illegible]			[illegible]		154416	
[illegible]	[illegible]	154375			152880	
[illegible]			[illegible]		152569	
[illegible]			[illegible]		153225	

MCO ROMITEC REF 1009

000322

nivelamentos

PAG. 75

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	156694			[illegible]	
[illegible]			[illegible]		154863	
[illegible]			[illegible]		155532	
[illegible]	[illegible]	159634			[illegible]	
[illegible]			[illegible]		158114	
[illegible]			[illegible]		158129	
[illegible]	[illegible]	162342			161259	
[illegible]			[illegible]		160522	
[illegible]			[illegible]		161606	
[illegible]	[illegible]	162186			160473	
[illegible]			[illegible]		160186	
[illegible]			[illegible]		160731	
[illegible]	[illegible]	160044			155378	
[illegible]			[illegible]		155794	
[illegible]			[illegible]		157314	

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000323

nivelamentos

PAG 76

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	159600			[illegible]	
[illegible]			[illegible]		157163	
[illegible]			[illegible]		156210	
[illegible]	[illegible]	162015			[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			1631		161284	
[illegible]	[illegible]	163457			[illegible]	
[illegible]			[illegible]		161327	
[illegible]			[illegible]		[illegible]	
[illegible]	[illegible]	162201			[illegible]	
[illegible]			1671		160620	
[illegible]			[illegible]		162181	
[illegible]	1897	160264			158867	
[illegible]			1681		158582	
[illegible]			[illegible]		159708	

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nivelamentos

PAG 77

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
768	0982	157632			156717	
[illegible]			2567		157072	
[illegible]			1625		155007	
769	3546	157572			154033	
[illegible]			2522		155051	
[illegible]			2020		154550	
770	[illegible]	154687			153239	
[illegible]			1248		153439	
[illegible]			1410		153277	
771	[illegible]	157255			156841	
[illegible]			1710		155245	
[illegible]			1905		155350	
772	2896	161028			158662	
[illegible]			3710		157238	
[illegible]			2338		159690	

BORDO DE ESTRADA CARROÇÁVEL

FIM SETRAN CAR.

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estacas	visadas a re	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	160331			160[illegible]	
[illegible]			[illegible]		159[illegible]	
[illegible]			[illegible]		1607[illegible]	EIXO DE ESTRADA CARROCABLE
[illegible]			[illegible]		160791	
76[illegible]	3641	167795			164[illegible]	
[illegible]			4074		163726	
[illegible]			[illegible]		165051	EIXO DE EST CARR.
[illegible]			[illegible]		164[illegible]	
[illegible]	[illegible]	167796			1669[illegible]	
[illegible]			[illegible]		[illegible]	
[illegible]			[illegible]		167[illegible]	EIXO DA EST CARR
764	6010	167796			167[illegible]	
[illegible]			0602		167104	
[illegible]			[illegible]		167158	EIXO DA EST CARR

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estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
766	1420	168125			166677	
+ [illegible]			[illegible]		166322	
- [illegible]			1275		166300	EIX DE ESTRADA CARROSÁVEL
767	1280	168336			166906	
- [illegible]			1637		166689	
- 9 [illegible]			1225		167010	EIXO DE EST CARR
[illegible]	3500	171210			167206	
- [illegible]			3500		167710	
- 7 [illegible]			3222		167988	EIXO DE EST CARR.
[illegible]	2140	171172			167[illegible]	
- [illegible]			1667		169505	
- [illegible]			2825		168300	EIXO DE EST CARR
774	1457	172384			170833	
+ [illegible]			1400		170889	
- [illegible]			[illegible]		170797	

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nivelamentos

PAG 80

estacas	visadas a ré	altura do instrumento	visadas avante: intermediaria	visadas avante: mudança	cotas	observações
[illegible]	[illegible]	174088			[illegible]	
[illegible]			[illegible]		172600	
[illegible]			[illegible]		172511	
[illegible]	1540	175516			173976	
[illegible]			1530		173086	
[illegible]			[illegible]		173865	
[illegible]	[illegible]	176344			[illegible]	
[illegible]			[illegible]		174674	
[illegible]			[illegible]		174824	
[illegible]	[illegible]	176968			[illegible]	
[illegible]			[illegible]		175284	
[illegible]			[illegible]		175468	
7850	[illegible]	176621			[illegible]	
[illegible]			[illegible]		174383	
[illegible]			[illegible]		175740	

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estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
7+86	1435	174874			173439	
+150 D			2137		172737	
- [illegible] E			1038		173836	
7+[illegible]	1450	173712			172262	
-150 D			1662		172050	
-150 E			0895		173623	
7+90	1488	172804			171316	
+150 D			1900		170904	
+150 E			0970		171834	
7+92	1430	173301			171931	
+150 D			1542		171819	
+150 E			1206		172155	
7+96	1425	174278			172853	
-150			1810		172468	
+150			0866		173412	

VICO ROMITEC REF 1009

000329

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nivelamentos DAS SECÇÕES

PAG 82

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudanca	cotas	observações
796	1610	173441			173431	
+[illegible]			1633		[illegible]	
+[illegible]			1275		[illegible]	
796	0217	172459			172242	
+[illegible]			0112		172347	
+[illegible]			0432		172027	
[illegible]	157[illegible]	172457			170896	
+[illegible]			1215		171242	
+[illegible]			1620		170837	
[illegible]	1440	170850			169830	
+[illegible]			0852		169997	
+[illegible]			2182		168667	
[illegible]	1431	168224			166793	
+[illegible]			0382		167836	
+[illegible]			0352		167872	

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nivelamentos

PAG 83

estacas	visadas à re	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
806	1425	167779			165354	
+15,00			1175		166604	
+15,00			0583		167196	
808	1435	166837			165372	
+15,00			1600		165237	
+15,00			1420		165387	
810	1428	167834			166406	
+15,00			1978		165856	
+15,00			0530		167304	
812	1447	169598			167128	
+15,00			2293		167290	
+15,00			0970		169313	
814	1438	168786			167342	
+15,00			2490		166295	
+15,00			0560		168226	

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estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
816	1440	1645 03			162 153	
+15 m			1720		165 823	
+15 m E			1116		166 477	
818	2919	172480			169 561	
+15 0			3565		167 015	
+15 7			1838		170 642	
820	1400	174636			173 236	
+15 0			1666		172 970	
+15 0			1472		173 164	
822	1425	176581			175 156	
+15 0 m			1968		174 613	
+15 0 E			0820		175 761	
824	1593	177785			176 392	
+15 0			2240		175 545	
+15 3			1178		176 607	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
826	1888	178281			177[illegible]	
+15,0 D			1895		176386	
+15,0 E			1040		177101	
828	1672	178176			177[illegible]	
+15,0 D			1211		176965	
+15,0 E			0890		177286	
830	1598	178277			176679	
+15,0 D			1517		176660	
+15,0 E			1346		176831	
832	0820	175516			175396	
+15,0 D			0800		175346	
+15,0 E			0410		175106	
834	0820	175516			177180	
+15,0 D			1958		173558	
+15,0 E			2[illegible]		172736	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
836	1650	1725 70			171 20	
+15 0 0			1367		170 905	
-			2 0 2 7		169 622	
3	1638	1691 10			168 87	
-			0042		169 047	
+15 1 5			2355		166 76 5	
840	3100	169205			168 102	
+15			2250		166 045	
-			1370		168 215	
842	0548	165 700			167 952	
+15 0 0			1025		166 511 0	
+15 0 5			1080		164 464	
844	2877	165544			162 666	
-			1 1 5		164 511 0	
-			1 5 5		162 912 0	

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nivelamentos

DAG 87

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
1	2337	162845			1[illegible]	
[illegible]			17210		161125	
[illegible]			12150		159845	LEITO DE [illegible]
252	1432	161997			160519	
[illegible]			15410		159467	LEITO DE [illegible]
[illegible]			18990		160967	
[illegible]			17410		161217	
250	1435	162495			161[illegible]	
[illegible]			19310		160[illegible]	
[illegible]			[illegible]		16[illegible]113	
832	3518	165[illegible]			16[illegible]436	
[illegible]			32415		162679	
[illegible]			37310		162194	
850	[illegible]	165[illegible]4			165136	
[illegible]			[illegible]		164[illegible]412	

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[illegible] 8 5 0 16 5 0 14

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
7[illegible]	1,895	169535			168140	
[illegible]			2320		167215	
[illegible]			2685		168855	
5[illegible]8	1,378	171468			170536	
[illegible]			2290		169171	EIXO EST CARROCAVEL
[illegible]			0623		170845	
860	1,442	171619			170537	
[illegible]			1200		170419	EIXO DA EST CARR
[illegible]			1320		170299	
[illegible]			[illegible]		171339	
860	1,315	170406			169091	
[illegible]			1676		168730	
[illegible]			1085		169326	EIXO DA EST CARR
[illegible]			[illegible]		169356	

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estacas	visadas à ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
165	1270	169494			168124	
[illegible]			3485		165514	
[illegible]			0325		169009	EIXO TEST ARRAGEVEL
[illegible]			2135		167359	
[illegible]	1606	167814			166408	
[illegible]			2545		168269	
[illegible]			1040		167474	EIXO DE EST PARR
2[illegible]	1692	169068			167375	
[illegible]			2954		167114	
[illegible]			0355		168716	
870	1602	168597			167995	
[illegible]			2798		165805	
[illegible]			0152		168445	

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estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
875	1443	166634			165174	
+15,1 D			2450		164184	
+15,1 E			3112		163522	
+15,0 E			1020		163614	
876	1443	166977			165533	
+15,1 D			0260		166717	
+15,1 E			2910		164067	
877	1443	166207			165147	
+15,1 D			2413		164507	
+15,1 E			1712		166195	
878	1345	166945			165600	
+15,1 D			1918		164965	
+15,1 E			0275		166670	
879	1343	165847			164504	
+15,1 D			2410		163447	
			1232		164609	

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FICA E

nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
882	1400	162165			161765	
+555			1620		160545	PE DE BARR. ESQUERDO DO RIACHO
+777			0752		161413	BARR. ESQUERDO
-150			0435		161730	
+555			1850		160315	PE BARR. DIREITO DIREITO DO RIACHO
+150			0230		161935	
886	1042	164590			163557	
+1000			0005		163604	
+150			1180		164110	
884	1385	164605			163223	
+1000			1578		163[illegible]	
+1005			0980		163625	
882	1318	171361			170043	
+2000			2028		169333	
+1500			1258		170103	

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estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
80 E	1996	173822			[illegible]	
+15.0 E			1912		171910	
+15.0 E			2635		171190	
80 D	1552	173822			[illegible]	
+15.0 E			1586		173236	
+15.0 E			2355		171467	
80 D	1372	174188			[illegible]	
+16.0 E			1030		173158	
+15.0 E			2270		171316	
80 E	1372	171643			[illegible]	
+16.0 E			00150		171593	
+15.0 E			3700		167043	

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
398	2896	171413			168517	
+30 D			3058		168355	
+40			3575		170838	
+50			2279		169161	
906	1916	170873			168957	
+150 D			3400		170473	
+150 E			3674		170309	
902	1468	171945			170477	
+73			1990		169955	
+50			1050		170895	
+150 E			2845		171100	
902	1410	169783			168373	
+200			1983		167800	
+150 E			2620		169163	
+150 E			2642		169141	

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estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
906	1600	174217			[illegible]	
+150			555		172662	
-			1772		173145	
[illegible]	1880	177356			[illegible]	
[illegible]			1510		176326	
[illegible]			2150		175686	
910	1895	181420			[illegible]	
[illegible]			1138		180282	
[illegible]			2328		177182	
[illegible]	1894	184189			[illegible]	
[illegible]			1110		183079	
[illegible]			1870		182391	
914	2615	187255			[illegible]	
[illegible]			2225		185642	
[illegible]			2529		185413	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediária	mudança		
916	0331	190776			[illegible]	
[illegible]			2620		1880956	
[illegible]			3020		[illegible]	
917	1558	190776			[illegible]	
[illegible]			1056		1897216	
[illegible]			1320		1894556	
920	1700	190621			[illegible]	
[illegible]			1822		1898799	
[illegible]			1325		1892296	
922	1459	190620			[illegible]	
[illegible]			1452		1892218	
[illegible]			1541		1891197	
924	1300	191220			[illegible]	
[illegible]			1242		1899978	
[illegible]			1678		[illegible]	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
926	1370	1811220			1809841	
[illegible]			1378		1808442	
[illegible]			1320		1809900	
925	2185	1811220			1809035	
[illegible]			2187		1809033	
[illegible]			2128		1809092	
926	3205	1811257			1808052	
[illegible]			3184		1808053	
[illegible]			3060		1808177	
926	3990	1811262			1807272	
[illegible]			3910		1807352	
[illegible]			3905		1807358	
926	1580	1808085			1806505	
[illegible]			1450		1806635	
[illegible]			1590		1806495	

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nivelamentos

estacas	visadas à ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
936	2525	188085			185560	
+15,00			2325		185760	
+15,00			2780		185305	
938	3301	188086			184785	
+15,00			3230		184856	
+15,00			3230		184856	
940	2896	188083			185277	
+15,00			3090		184993	
+15,00			2715		185368	
942	2159	188085			185926	
+15,00			2343		185742	
+15,00			2110		185975	
944	1292	188084			186792	
+15,00			1527		186515	
+15,00			1350		186734	

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estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
916	1590	188811			187421	
+15,0 D			1578		187233	
+15,0 E			1395		187416	
914	1400	189260			187860	
+15,0 D			1417		187843	
+15,0 E			1500		187760	
958	1334	189420			188086	
+15,0 D			1245		188175	
+15,0 E			1816		187604	
952	1445	189011			187566	
+15,0 D			0957		188054	
+15,0 E			1834		187177	
954	1453	188772			187319	
+15,0 D			0780		187992	
+15,0 E			2316		186456	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante		cotas	observações
			intermediaria	mudança		
956	1413	189112			187699	
+15,00			0820		188292	
+15,15			1206		187906	
958	1418	190000			188591	
+15,00			1070		188939	
+15,05			1177		188832	
960	1418	189472			188636	
+15,00			1070		188384	
+15,05			2462		187010	
962	1493	186277			184685	
+15,00			1800		185377	
+15,06			2160		184117	
964	1490	183471			181981	
+15,00			1396		182075	
+15,06			2220		181251	

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estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
966	1480	181124			179644	
+15[illegible]			22[illegible]		179874	
+15[illegible]			1787		179337	
968	3012	179832			176820	
+15[illegible]			3364		176528	
+15[illegible]			18017		178085	
970	1907	176602			174695	
+15[illegible]			2232		173370	
+15[illegible]			1348		175254	
972	3033	171976			168890	
+15[illegible]			2508		169468	
+15[illegible]			2142		169834	
974	3100	171889			168889	
+15[illegible]			3270		168719	
+15[illegible]			3470		169419	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
976	2615	174832			171817	
+150			3138		171694	
+15			1015		173317	
978	1475	171518			170043	
+150			0698		170820	
+150			1432		170086	
980	3502	171520			168018	
+150			3105		168415	
+150			4630		166890	
982	2615	169307			166692	
+150			0868		168439	
+150			3466		165841	
984	1546	166330			164784	
+150			1222		165108	
+150			2468		163862	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
986	0302	163612			163309	CAIXINHA DE TAIPA
+1.0			0305		163312	
+15.0			1563		162049	EIXO DA RUA
988	2599	163631			161113	
-1.0			2385		161246	CAIXETA
+4.6			2560		161071	EIXO DA RUA
990	0906	161520			160614	
-1.50			0909		160611	MEIO FIO DO CALÇAMENTO DA RUA PEDRO XAVIER DINHEIRO
+78.5			1260		160260	
992	2077	161329			159243	
-1.40			2119		159201	MEIO FIO
+7.45			2225		159095	
994	1243	158483			157140	
-1.45			1305		157178	MEIO FIO
+6.46			1278		157155	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
996	0450	155337			154887	MEIO FIO
+22,1 D			0459		154878	
-5,0 E			0820		154517	
998	2141	153329			151188	MEIO FIO
+4,15 D			2447		150882	
+3,5 E			2255		151074	
1000	3234	150012			146778	MEIO FIO
+15,0 D					1	
+7,2 E			3416		146602	
[illegible]			2805		147207	
1002	2630	150143			147513	
+8,55 D			2519		147624	MEIO FIO
-2,40 E			2612		147531	

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nivelamentos

estacas	visadas a ré	altura do instrumento	visadas avante: intermediária	visadas avante: mudança	cotas	observações
1004	2727	152075			150243	MEIO FIO
-5 m D			2930		150045	
+126 E			2803		150172	
1006	0732	152075			152243	
+3 m D			0660		152215	MEIO FIO
+520			1112		151863	
1008	3761	156170			152413	
+15,8 D			2461		153713	C GINASIO
+15 m E			5290		150884	
1010	1926	156475			154545	
+15,8 D			2760		153413	
+15 m E			1240		154313	
1012	3321	159801			156675	
+15,8			4070		155731	
+15,8			0937		158863	

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nivelamentos

estacas	visadas a re	altura do instrumento	visadas avante intermediária	visadas avante mudança	cotas	observações
1014	2350	163181			160831	
+15,00			3582		159599	
+15,25			1600		161581	
1016	0243	166329			166086	
+15,00			1083		165246	
+15,25			0112		166217	
1018	1438	173165			171727	
+1.00			1656		171509	MEIO FIO
+15,7			1300		171865	MEIO FIO

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