



Memória de calculo

01 Locação dos postes

Quantidade obtida diretamente da planta de implantação.

Critério

Contagem das posições identificadas no Projeto Executivo.

Descrição	Quantidade
Poste metálico duplo 9 m útil	23 unidades
Poste colapsível simples 9 m	Útil 60 unidades
Poste colapsível duplo 9 m	Útil 4 unidades

02 Escavações

As escavações são compostas por escavação : caixa de passagem, postes e eletrodutos(PEAD e metálicos).

02.01 Caixas de passagem 0,3mx0,3mx0,3m

Dimensões da escavação caixa de passagem:

$$0,30 \times 0,30 \times 0,30$$

Volume unitário

$$0,30 \times 0,30 \times 0,30$$

$$= 0,027m^3$$

Quantidade de caixas

87

Volume total



$$87 \times 0,027$$

$$= 2,349 \text{ m}^3$$

02.02 Caixas de passagem 0,6mx0,6mx0,6m

Dimensões da escavação caixa de passagem:

$$0,60 \times 0,60 \times 0,60$$

Volume unitário

$$0,60 \times 0,60 \times 0,6$$

$$= 0,216 \text{ m}^3$$

Quantidade de caixas

10

Volume total

$$10 \times 0,216 \text{ m}^3$$

$$= 2,16 \text{ m}^3$$

02.03 Postes

Dimensões da escavação Postes:

$$0,30 \times 0,30 \times 1,7$$

Volume unitário

$$0,30 \times 0,30 \times 1,7$$

$$= 0,153 \text{ m}^3$$

Quantidade de postes

87



Volume total

$$87 \times 0,153$$

$$= 13,311 \text{ m}^3$$

02.04 Eletrodutos

Dimensões da escavação eletrodutos PEAD:

$$1 \times 0,5 \times 0,3$$

Volume unitário

$$1,0 \times 0,50 \times 0,3$$

$$= 0,15 \text{ m}^3$$

Quantidade de eletrodutos

$$2700+111\text{m}$$

Volume total

$$28110 \times 0,15$$

$$= 421,65 \text{ m}^3$$

Somatório das escavações: 439,47m

Com adicional de segurança - total 450m

02 Concreto

O concreto foi utilizado para fixação dos postes e proteção mecânica dos eletrodutos enterrados.



02.01 Poste

Dimensões de concreto por Poste:

Volume unitário/ poste

$$= 0,1544 \text{ m}^3/\text{poste}$$

Quantidade de Postes

87

Volume total

$$87 \times 0,1544$$

$$= \mathbf{13,43 \text{ m}^3}$$

02.02 Eletroduto

Dimensões da escavação Eletroduto:

Volume unitário

$$0,1 \times 0,1$$

$$= 0,01 \text{ m}^3$$

Quantidade de Eletrodutos

2811

Volume total

$$2811 \times 0,01$$

$$= \mathbf{28,11 \text{ m}^3}$$



Somatório das escavações: 41,54m

3 Demolição de defensas(lajes de concreto)

Corte de 0,31x0,3

Exemplo

Serão 25 demolições

= **2,33m³**

3.6 Cabo de alimentação

Obtido pela medição em planta.

Cabo 16 mm²

Medidor 04

1800 m

Acrescido de 10% para conexões

$1800 \times 1,1$

= **2000 m**

Cabo 10 mm²

Medidor 01

1356,84 m

Medidor 02

2350 m



Medidor 03

2050 m

Medidor 04

1400 m

Total 7156,84

Acrescido de 10% para conexões

$7156,84 \times 1,1$

= 7952,05 m

Cabo 6 mm²

Medidor 01

630 m

Total

630 m

Acrescido de 10% para conexões

$630 \times 1,1$

= 700 m

3.7 Cabo 2,5 mm²

Postes Simples – 33 metros por poste

Postes duplos – 66 metros postes

Total – 60 postes simples x 33 metros + 27 postes duplos x 66 metros = 3762 metros

Acrescido de 10 % para conexões – 4138,2 metros

3.7 Eletrodutos



Mesmo procedimento.

Comprimento medido em planta

+

Reserva técnica

5%

= **2700 m**

3.9 caixas de passagem 0,3x0,3x0,4

Uma por poste

87 postes

=

87 caixas

3.10 Luminárias

Obtidas diretamente do projeto luminotécnico.

114 luminárias LED

3.12 Disjuntores

Obtidos pelo diagrama unifilar.

01 disjuntor geral

08 disjuntores parciais

Total

09 unidades



3.13 Quadro de comando

Obtido pelo projeto elétrico.

04 unidade

Assinado por:

Thiago Valério Cardoso

16A476A0FF91451...

Certificate Of Completion

Envelope Id: E9FF14A3-8E6F-8CD5-8150-F787AEF7B1BF		Status: Completed
Subject: Solicitação de Assinatura Digital - Memória de calculov2.pdf		
Source Envelope:		
Document Pages: 8	Signatures: 1	Envelope Originator:
Certificate Pages: 3	Initials: 0	Assinatura Digital
AutoNav: Enabled		desenvolvimento@eisolucoesinteligentes.com.br
Envelopeld Stamping: Enabled		IP Address: 187.86.227.31
Time Zone: (UTC-04:00) Cuiaba		

Record Tracking

Status: Original	Holder: Assinatura Digital	Location: DocuSign
9/29/2026 4:17:34 PM		
	desenvolvimento@eisolucoesinteligentes.com.br	

Signer Events	Signature	Timestamp
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Thiago Valerio Cardoso	 Assinado por: Thiago Valerio Cardoso 16A476A0FF91451...	Sent: 9/29/2026 4:18:48 PM
thiagoc.enge@gmail.com		Viewed: 9/29/2026 4:24:26 PM
Security Level: Email, Account Authentication (None)		Signed: 9/29/2026 4:24:49 PM
	Signature Adoption: Pre-selected Style	Freeform Signing
	Using IP Address: 187.86.236.25	

Electronic Record and Signature Disclosure:
Accepted: 9/29/2026 4:24:26 PM
ID: c3f78e00-de04-473f-87c5-7414806f86dd

In Person Signer Events	Signature	Timestamp
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Editor Delivery Events	Status	Timestamp
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Certified Delivery Events	Status	Timestamp
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Carbon Copy Events	Status	Timestamp
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Witness Events	Signature	Timestamp
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Notary Events	Signature	Timestamp
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Envelope Summary Events	Status	Timestamps
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Envelope Sent	Hashed/Encrypted	9/29/2026 4:18:48 PM
Certified Delivered	Security Checked	9/29/2026 4:24:26 PM
Signing Complete	Security Checked	9/29/2026 4:24:49 PM
Completed	Security Checked	9/29/2026 4:24:49 PM

Payment Events	Status	Timestamps
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