DET. ESTACA Ø 20,00 cm

Relação do aço - estacas

E (21x)

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	12	5.0	299	64	19136
CA50	13	10.0	52	355	18460

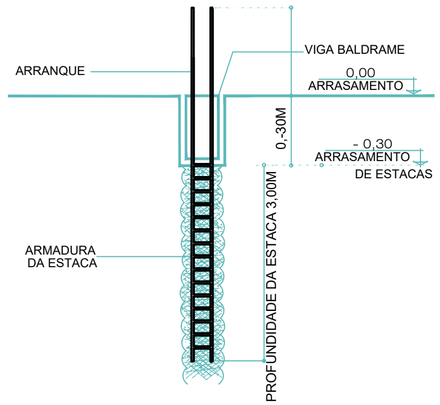
Resumo do aço - estacas

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	191,36	210,50
CA60	5.0	184,60	203,06

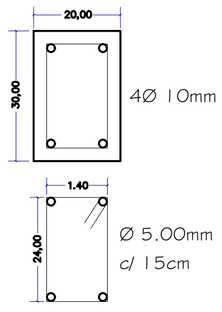
PESO TOTAL	
CA50	210,5
CA60	203,06

Vol. de concreto total (C-25) = 1,23 m³

4 N13 ø10.0 C=335 23 N12 ø5.0 C=64 c/15



VIGAS BALDRAMES



ESTRIBO Ø 5,00MM
C= 90CM

MEMORIAL DE CÁLCULO

4 Ø 10MMx43,95= 175,80M

43,95/0,15M= 293 ESTRIBOS DE Ø 5MM
293 ESTRIBOS DE Ø 5MM X 0,90M= 263,70M

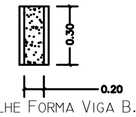
VOLUME

A= 0,20x0,30= 0,060M²
V= 0,060x43,95M= 2,64M³

FORMA

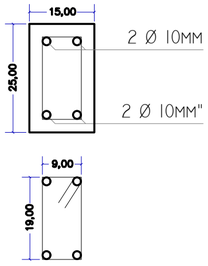
43,95M X 2 LADOS X 0,30M = 26,37M²

Concreto FCK 25Mpa

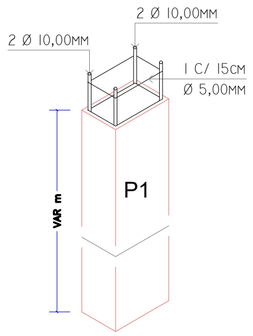


DETALHE FORMA VIGA B.

DET. PILAR 15x25



ESTRIBO Ø 5,00MM
C= 70CM



MEMORIAL DE CÁLCULO

4 Ø 10MMx33,60= 134,40M

33,60/0,15M= 224 ESTR DE Ø 5MM
224 ESTR DE Ø 5MM X 0,70M= 156,80M

VOLUME

A= 0,15x0,25= 0,0375M²
V= 0,0375x33,6M= 1,26M³

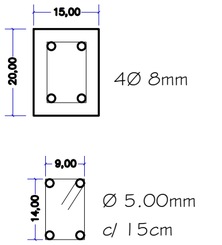
FORMA

33,6M X 2 LADOS X 0,25M = 16,80M²
7,65M X 1 LADOS X 0,15M = 1,15M²
TOTAL = 17,95 M²

Concreto FCK 25Mpa

DETALHE FORMA PILARES

VIGAS DE RESPALDO



ESTRIBO Ø 5,00MM
C= 60CM

MEMORIAL DE CÁLCULO

4 Ø 10MMx29,53= 118,12M

29,53/0,15M= 197 ESTRIBOS DE Ø 5MM
197 ESTRIBOS DE Ø 5MM X 0,60M= 118,2M

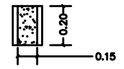
VOLUME

A= 0,15x0,20= 0,030M²
V= 0,030x29,53M= 0,89M³

FORMA

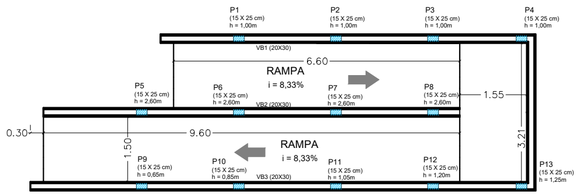
29,53M X 2 LADOS X 0,20M = 11,81M²

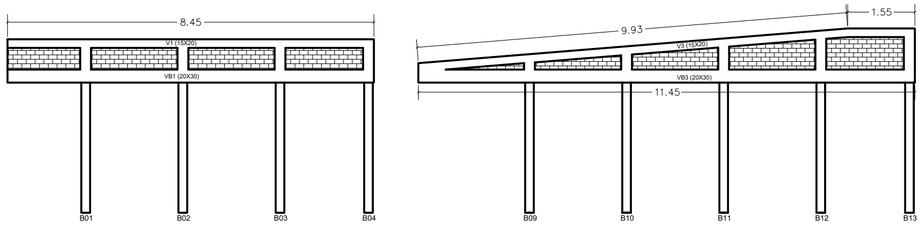
Concreto FCK 25Mpa

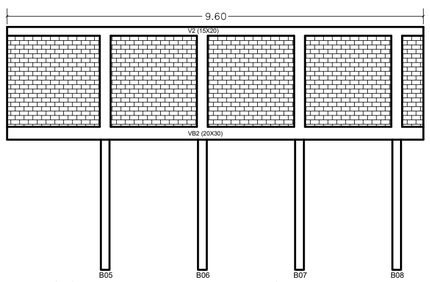


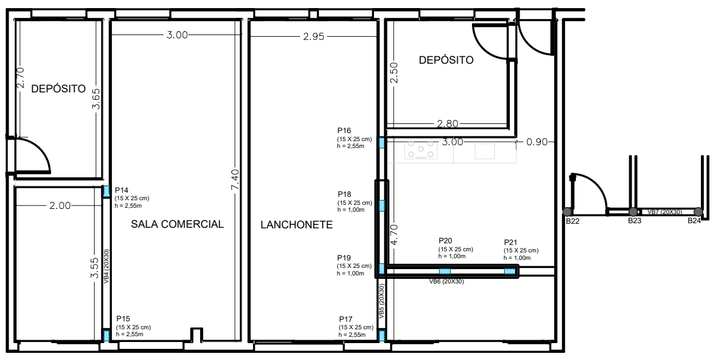
DETALHE FORMA VIGA B.

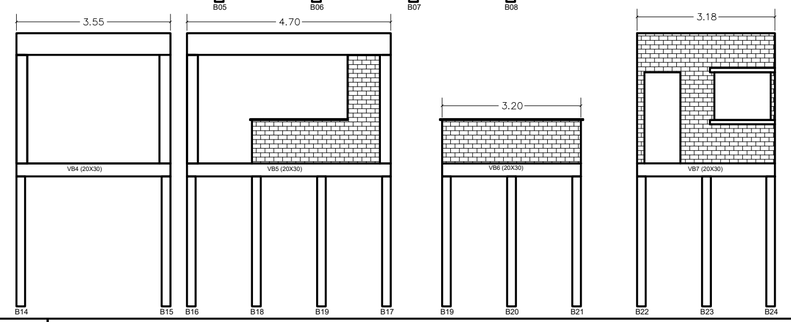
DETALHE ESTRUTURAL











Título:
PROJETO DE REFORMA - TERMINAL RODOVIÁRIO

Folha:
07/10

FINALIDADE:
PROJETO ESTRUTURAL - TERMINAL RODOVIÁRIO

INTERESSADA:
PREFEITURA MUNICIPAL DE ITAÍ

LOCALIZAÇÃO:
RUA SALVADOR DE FREITAS, Nº 930 - CENTRO

CIDADE:
ITAÍ - SP

ESCALA:
SEM ESCALA

DATA:
22/12/2021

SITUAÇÃO:
SEM ESCALA

QUADRO DE ÁREAS:

TERRENO:
1.742,336 m²

CONSTRUÇÃO:
612,26m²

JOSÉ RAMIRO ANTUNES DO PRADO
PREFEITO MUNICIPAL

DANIELA MARANGONI:43299699806

Assinado de forma digital por DANIELA MARANGONI:43299699806
DN: c=BR, o=ICP-Brasil, ou=AC CERTISIGN A3 MINAS v5, ou=27095430000155, ou=Presencial, ou=Certificado PF A3, cn=DANIELA MARANGONI:43299699806
Dados: 2021.12.22 16:04:54 -03'00'

RESP. PROJETO: DANIELA MARANGONI
ENGENHEIRA CIVIL
CREA SP - Nº 5070463440-SP

RODRIGO FRUTUOZO DA SILVA:37263360870

Assinado de forma digital por RODRIGO FRUTUOZO DA SILVA:37263360870
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Dados: 2021.12.22 16:04:54 -03'00'

RESP. TÉCNICO: RODRIGO FRUTUOZO DA SILVA
ENGENHEIRO CIVIL
CREA SP - Nº 5063530763-SP