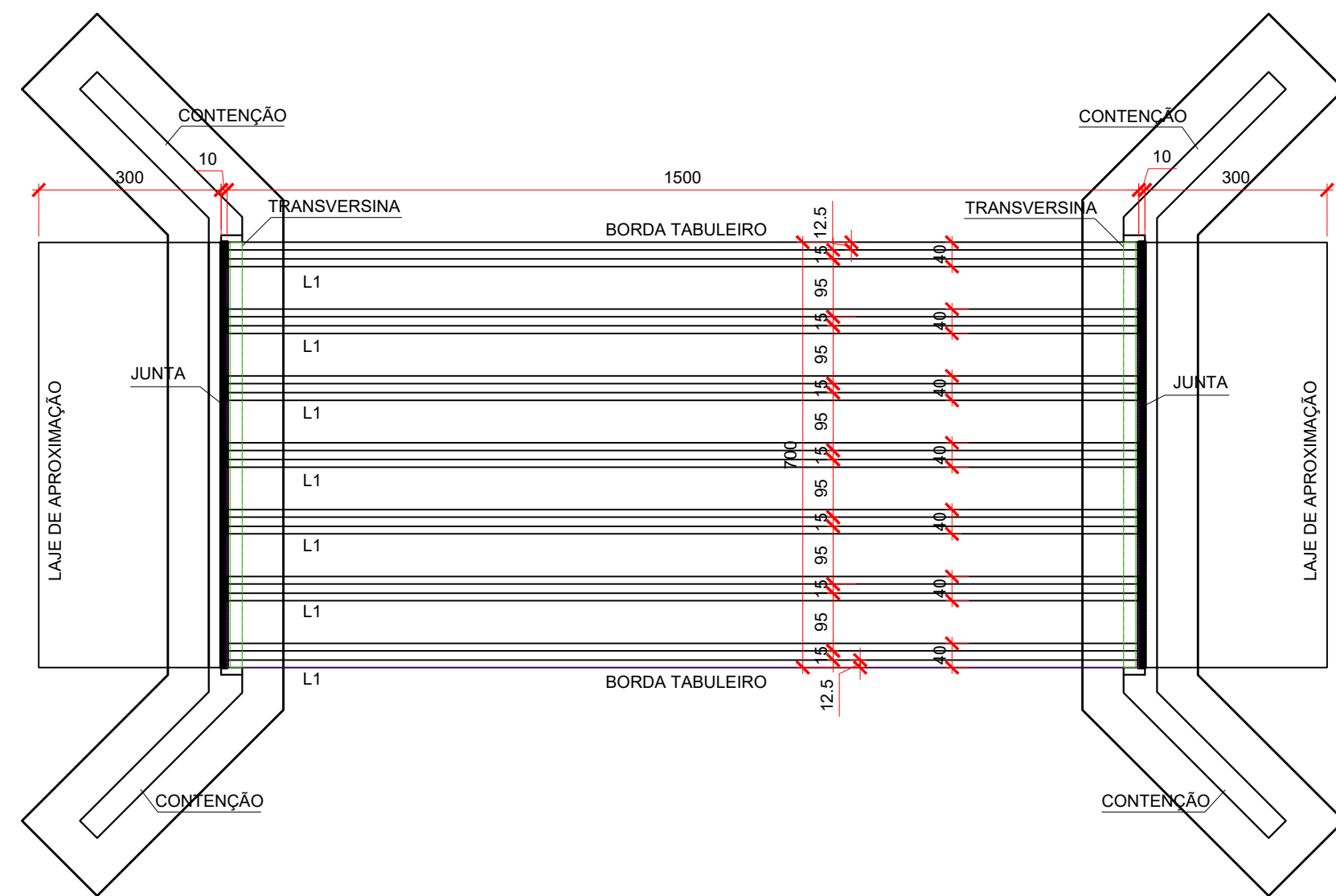
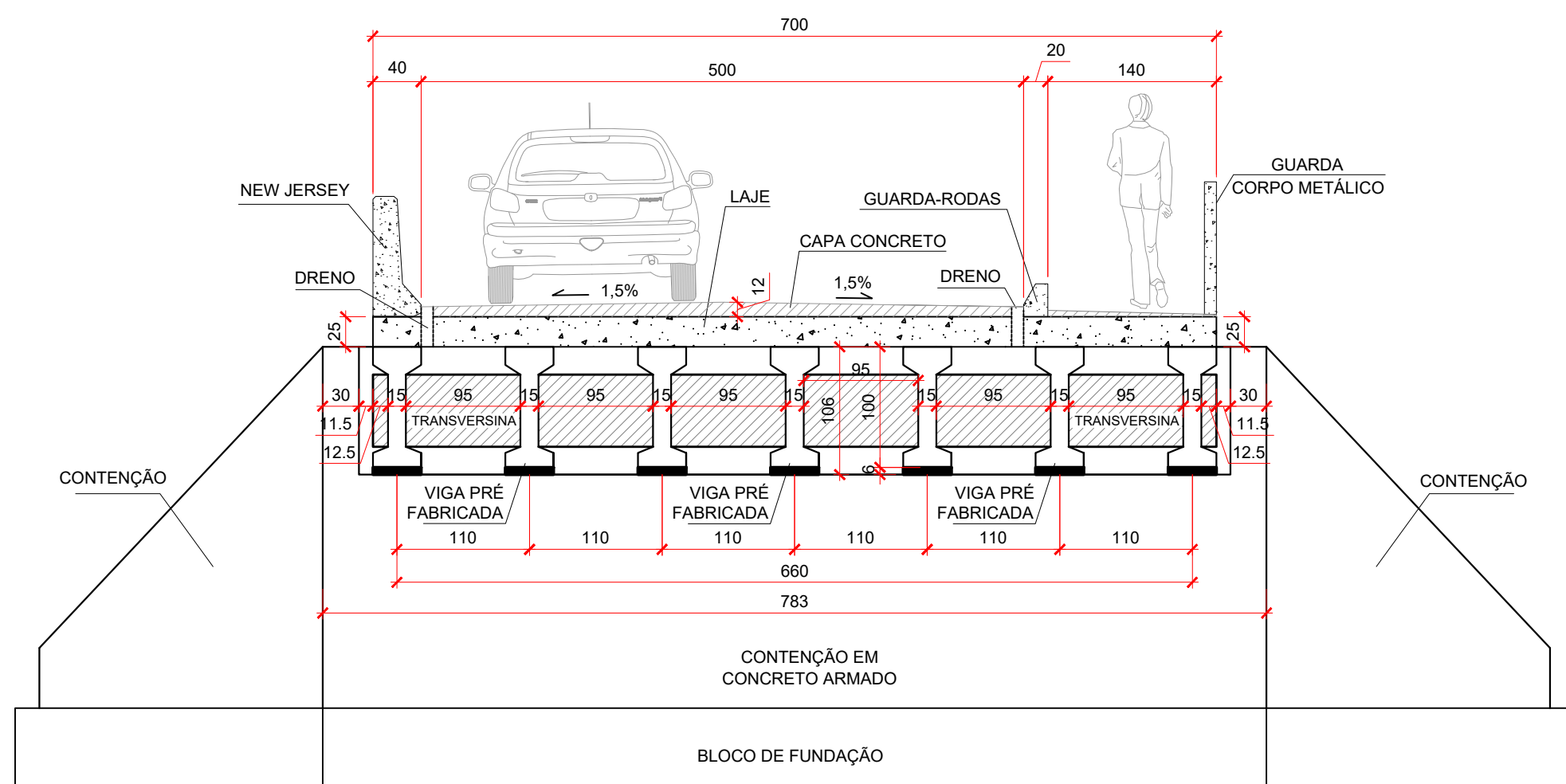


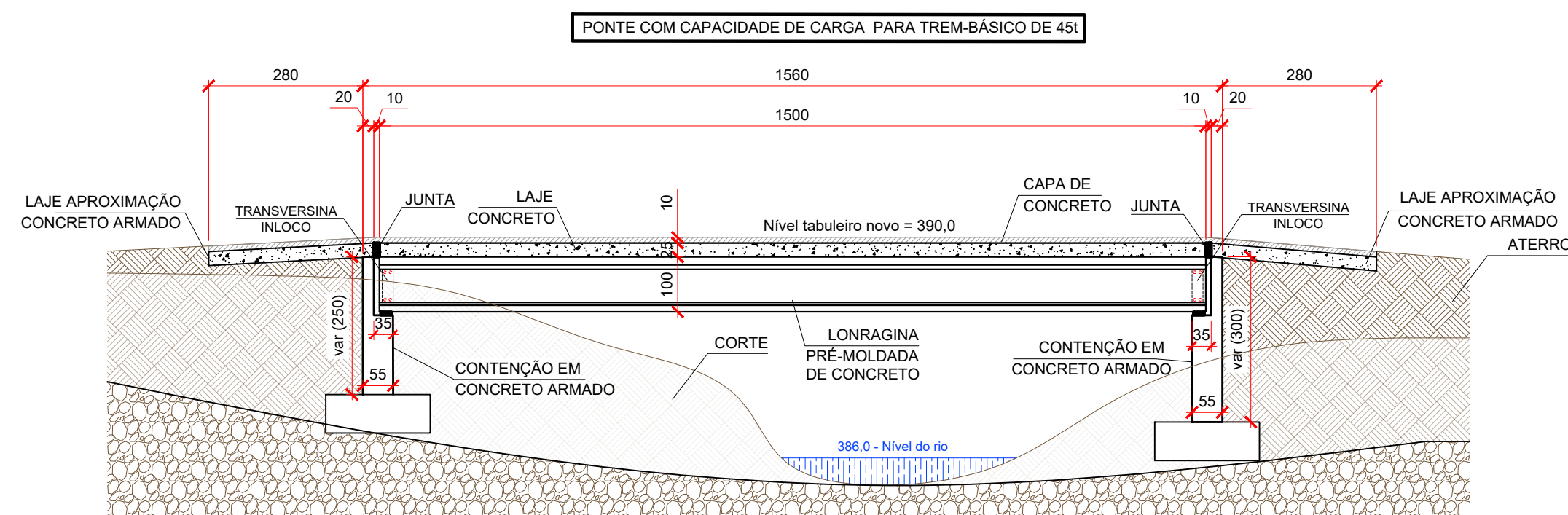
PLANTA DE FORMA DA PONTE  
ESC.: 1/100



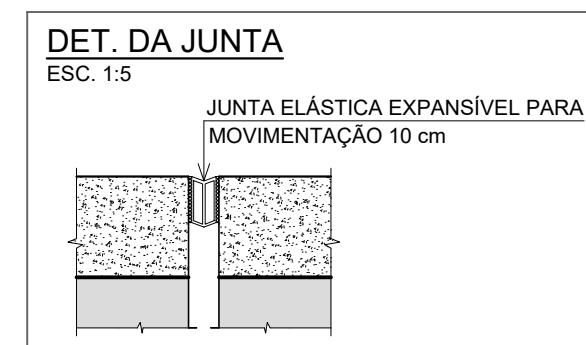
VISTA SUPERIOR COMPLETA DA PONTE  
ESC.: 1/100



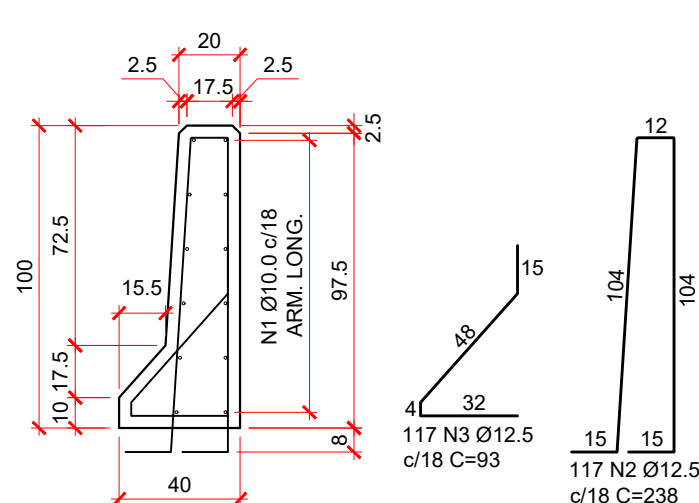
CORTE BB - PONTE  
ESC.: 1/50



SEÇÃO LONGITUDINAL  
ESC.: 1/100



DETALHE BARREIRA NEW JERSEY (21.2 metros)  
ESC.: 1/50



Relação do aço (21.2 m)

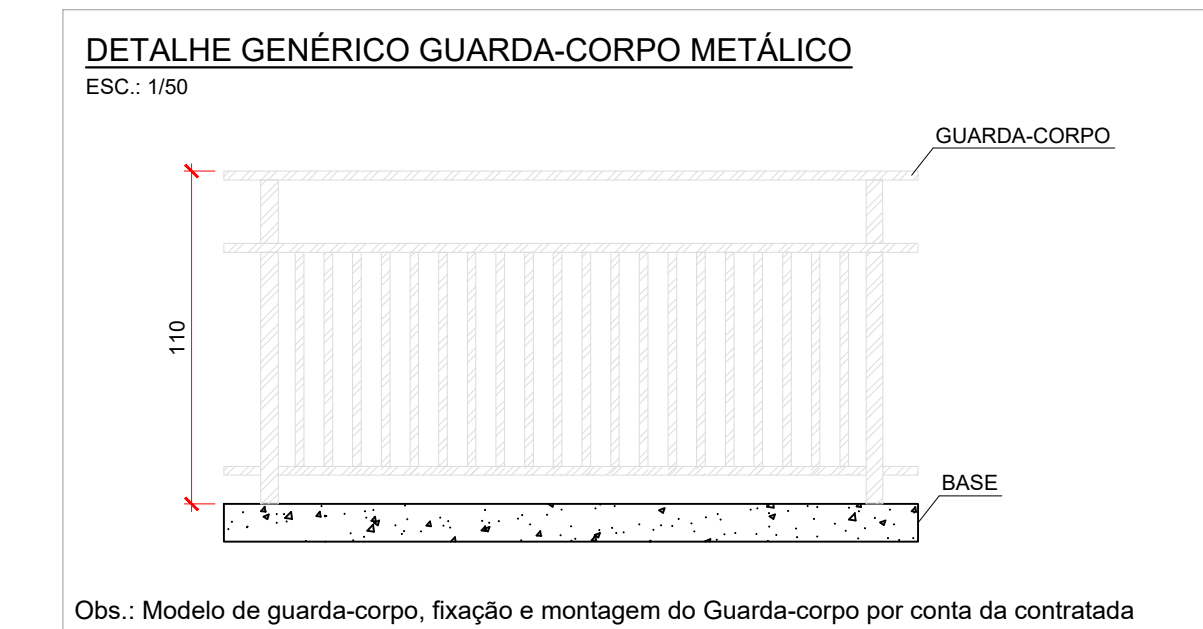
AÇO	N	DIAM (mm)	QUANT (BARRAS)	UNIT (cm)	C.TOTAL (cm)
CA50	1	10.0	12	2112	25344
	2	12.5	117	238	27846
	3	12.5	117	93	10881

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	253.5	156.5
	12.5	387.3	373.0

PESO TOTAL (kg)	
CA50	529.5

Resumo de concreto = 6 m³



DETALHE GUARDA-RODAS (21.2 metros)  
ESC.: 1/50

## Relação do aço (21.2 m)

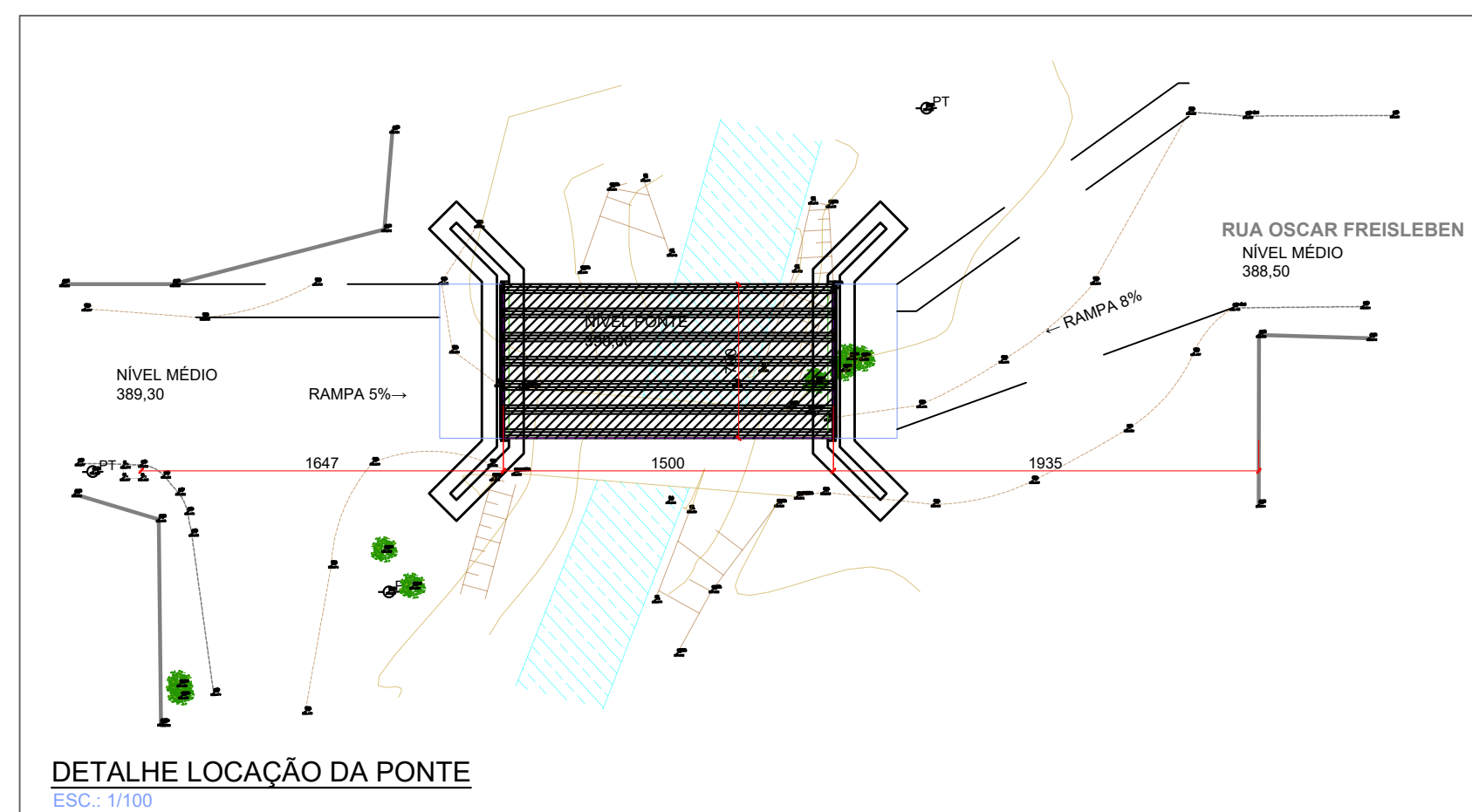
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	8	2112	16896
	2	10.0	106	100	10600

## Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	169.0	66.8
	10.0	106.0	65.4
PESO TOTAL (kg)			
CA50		132.2	

Resumo de concreto = 1.2 m³

Technical drawing of a rectangular column cross-section. The overall width is 20 cm and the overall height is 30 cm. The section is reinforced with 4 bars (N 108.0). The reinforcement details are as follows: 2 bars are placed at the top corners, 2 bars are placed at the bottom corners, and 2 bars are placed at the bottom corners. The distance between the top bars is 10 cm, and the distance between the bottom bars is 10 cm. The distance between the side bars is 10 cm. The distance between the top and bottom bars is 10 cm. The distance between the side bars is 10 cm. The distance between the top and bottom bars is 10 cm. The distance between the side bars is 10 cm. The distance between the top and bottom bars is 10 cm. The distance between the side bars is 10 cm. The distance between the top and bottom bars is 10 cm. The distance between the side bars is 10 cm. The distance between the top and bottom bars is 10 cm. The distance between the side bars is 10 cm. 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NOTAS:  
A) ELEVAÇÕES E DIMENSÕES EM CENTÍMETROS, EXCETO ONDE INDICADO.

PROPRIEDADES DO CONCRETO:

CONTENÇÕES, BLOCOS E ESTACAS

fck: 30 MPa (C30)

Módulo de elasticidade longitudinal (C30): Eci > 31000 MPa

LAJES E PRÉ LAJE

fck: 30 MPa (C30)

Módulo de elasticidade longitudinal (C30): > 31000 MPa

VIGAS PROTENDIDAS

fck: 40 MPa (C40)

Módulo de elasticidade longitudinal (C50): > 35000 MPa

Fator água/cimento (a/c): < 0,45

Consumo de cimento: > 320 kg/m³

Abatimento (Slump Test): 10 cm +/- 2 cm

Tamanho máx. do agregado:

25 mm nos blocos de fundação

19 mm em outros elementos

C) PROPRIEDADES DO AÇO:

Armadura Ativa: Fy=1710 MPa; Fu=1900 MPa (CP-190 RB)

Armadura Passiva: Fy=500 MPa (CA-50)

D) NORMAS UTILIZADAS:

NBR 6118:2023 - Projeto de estruturas de concreto - Procedimentos;

NBR 9062:2017 - Projeto e Execução de Estruturas de Concreto Pré-Moldado

NBR 8681:2003 - Ações e segurança nas estruturas - Procedimento

NBR 7188:2013 - Carga móvel em ponte rodoviária e passarela de pedestre

NBR 7187:2021 - Projeto de pontes de concreto armado e de concreto

protendido - Procedimento

E) COBRIMENTOS:

Considerando uma Classe de Agressividade Ambiental - CAA II

e respeitando o que está prescrito na NBR 6118, tem-se:

VIGAS = 3,5 cm;

PILARES = 3,5 cm;

PRÉ LAJE DO TABULEIRO = 2,5 cm;

LAJE 'INLOCO' = 3,0 cm;

FUNDAÇÕES = 4,5 cm.

F) TENSÃO ADMISSÍVEL DO SOLO:

VER LAUDO DE SONDAGEM

G) O NÍVEL DE TOPO DO BLOCO DEPENDE DA CONFIRMAÇÃO DO RESPONSÁVEL PELA

PREPARAÇÃO DO ARRASAMENTO DAS ESTACAS

PROJETO ESTRUTURAL

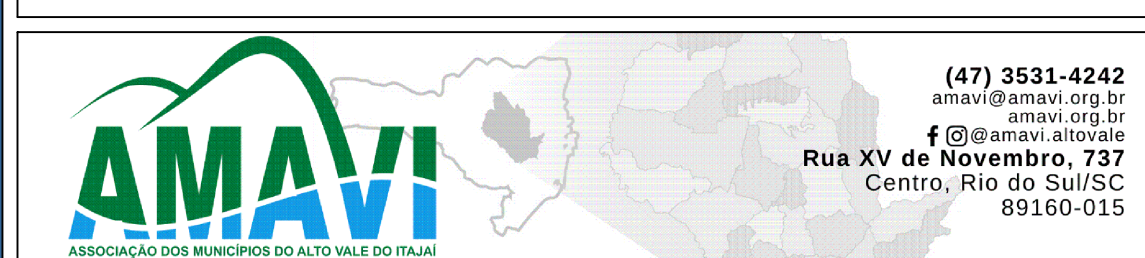
PROPRIETÁRIO / CONTRATANTE:  
PREF. MUNICIPAL DE AGROLÂNDIA

CNPJ: 83.102.582/0001-44

RESPONSÁVEL TÉCNICO PROJETO:

MARCEL GUSTAVO SCHMIDT

ENGENHEIRO CIVIL - CREA: 086867-0-SC



REVISÃO	DESCRIÇÃO DA REVISÃO	RESP.	DATA
R01	REVISÃO GERAL	BEATRIZ	23/07/2024
R00	PRIMEIRA EMISSÃO	BEATRIZ	12/07/2024

Logo of ABITAT Engenharia and contact information.

AMAVI / RUA OSCAR FREISLEBEN / AGROLÂNDIA-SC

PROJETO ESTRUTURAL / PONTE 07

PLANTA DE FORMA

Resp. tec: LUCAS	CREA: 118585-5	Desenho	Folha
Projeto: LUCAS	Data: 23/07/2024	001	01
Escala: INDICADA	Revisão: 01		
Arquivo: Ponte 07_Agrolândia - 001_Forma - R01			