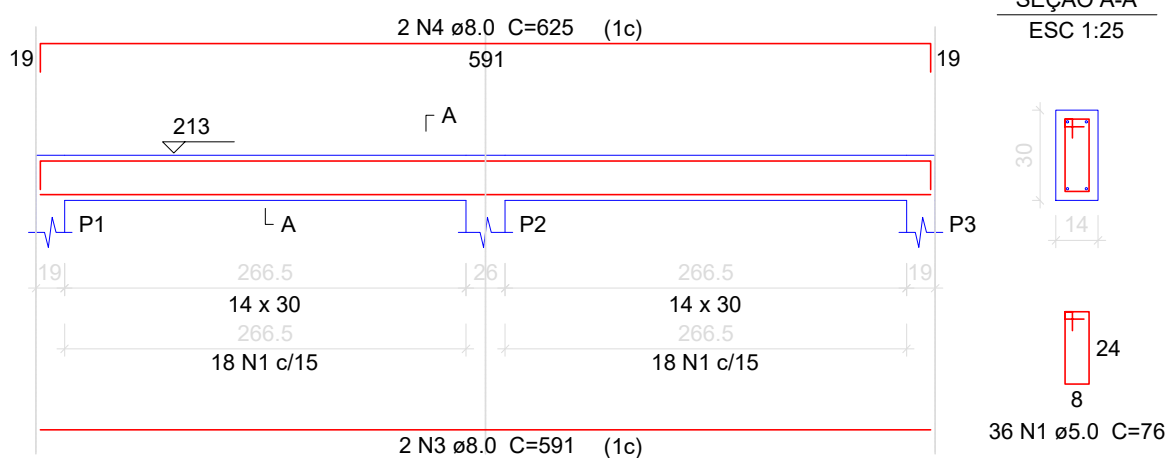


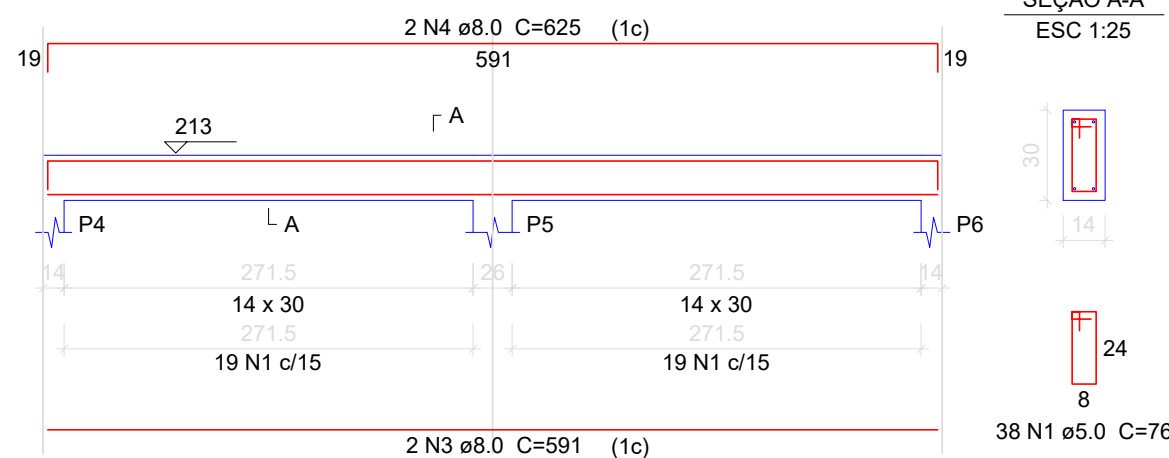
V201

ESC 1:50



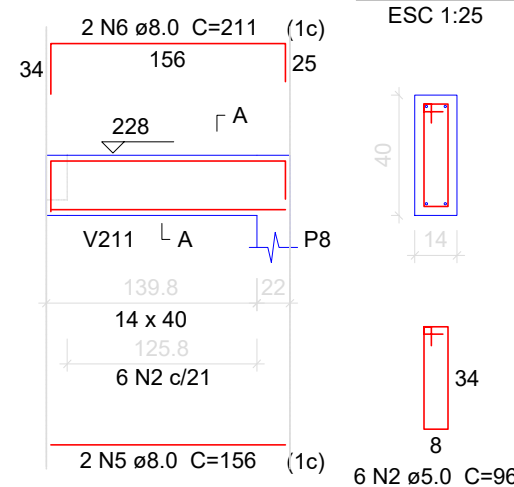
V202

ESC 1:50



V203

ESC 1:50



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
V201					
V205					
V210					
V213					
V217					
V202					
V206					
V211					
V215					
V218					
V203					
V207					
V212					
V216					

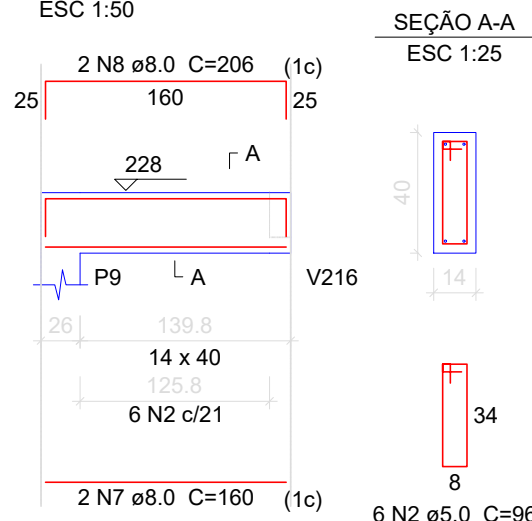
Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	122.6	53.2
CA60	5.0	122.5	20.8
PESO TOTAL			
CA50		53.2	
CA60		20.8	

Vol. de concreto total (C-25) = 1.22 m³
Área de forma total = 21.36 m²

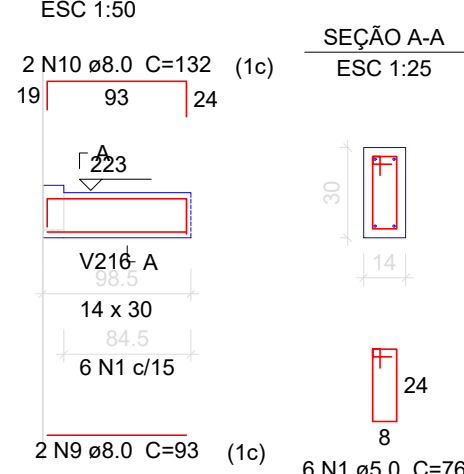
V205

ESC 1:50



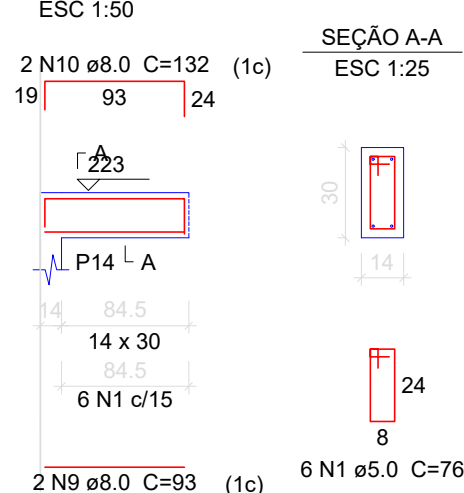
V206

ESC 1:50



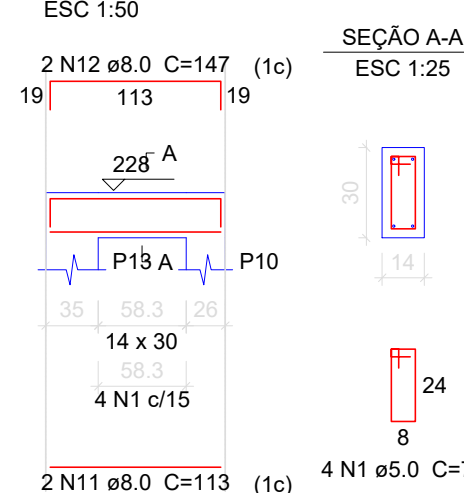
V207

ESC 1:50



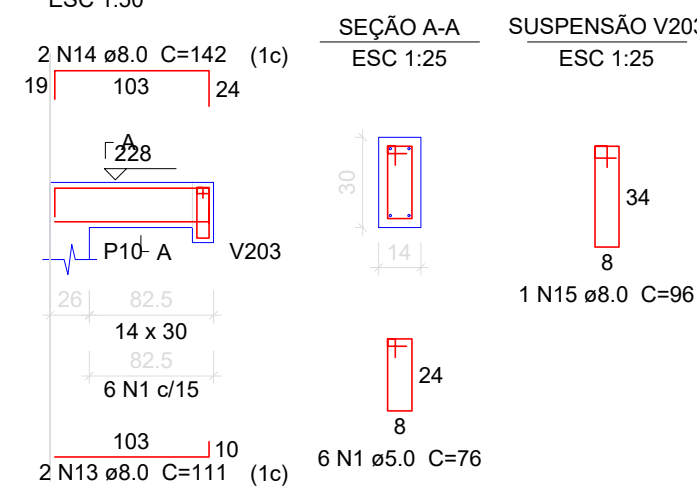
V210

ESC 1:50



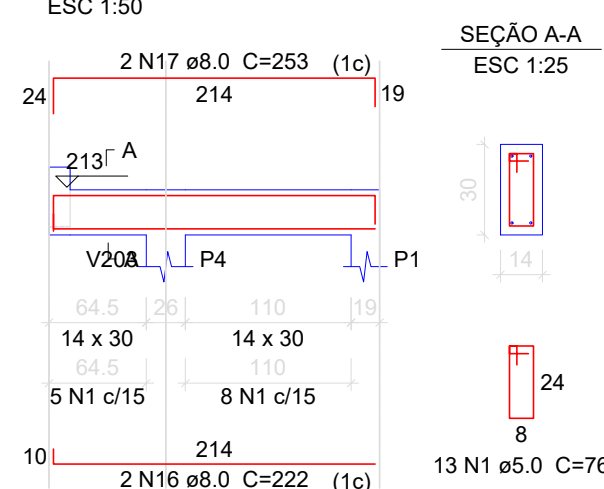
V211

ESC 1:50



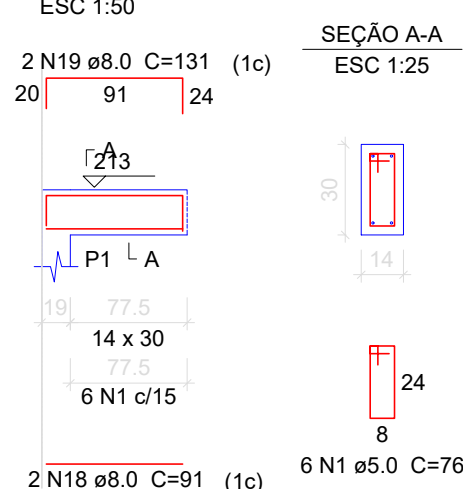
V212

ESC 1:50



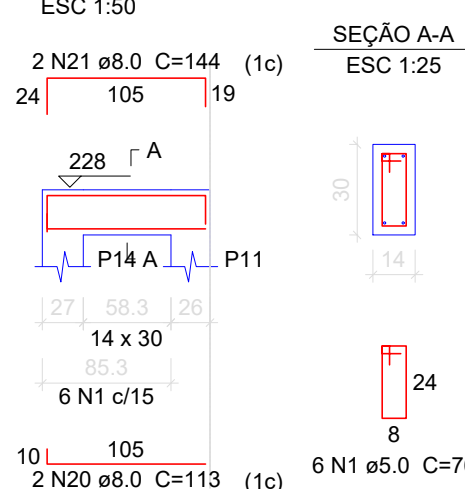
V213

ESC 1:50



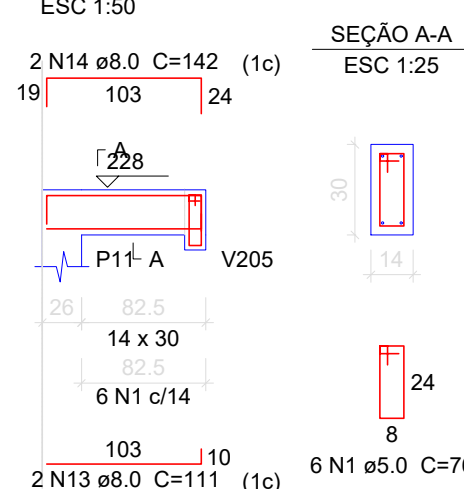
V215

ESC 1:50



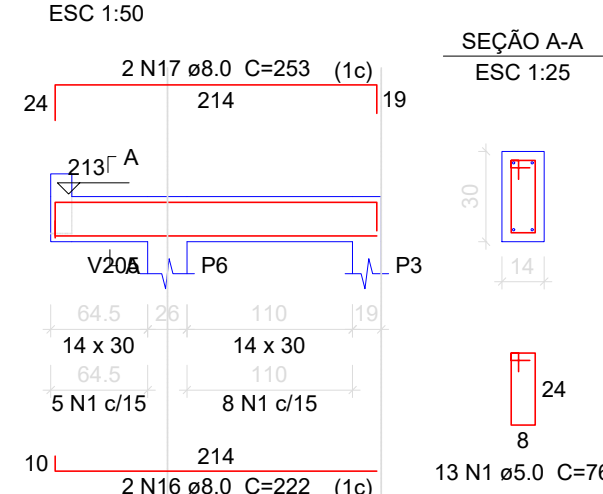
V216

ESC 1:50



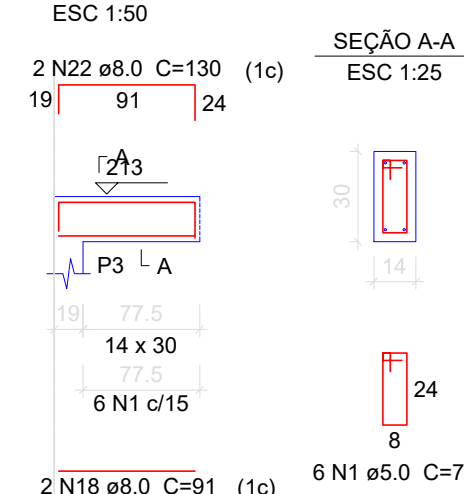
V217

ESC 1:50

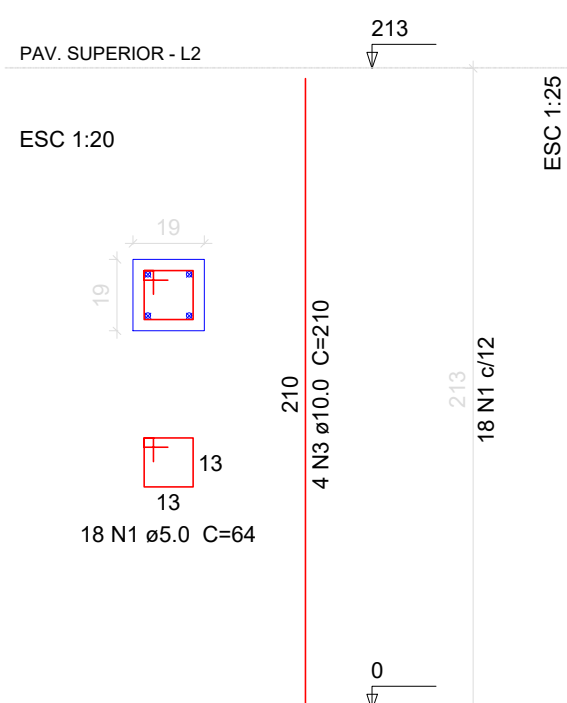


V218

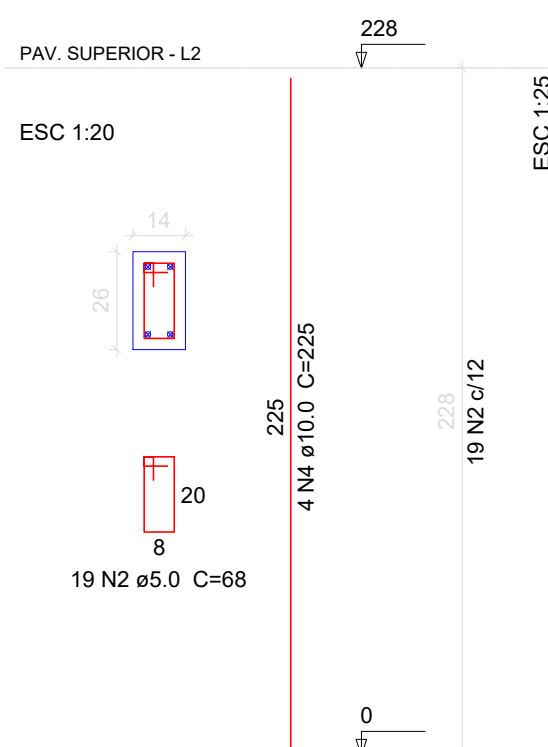
ESC 1:50



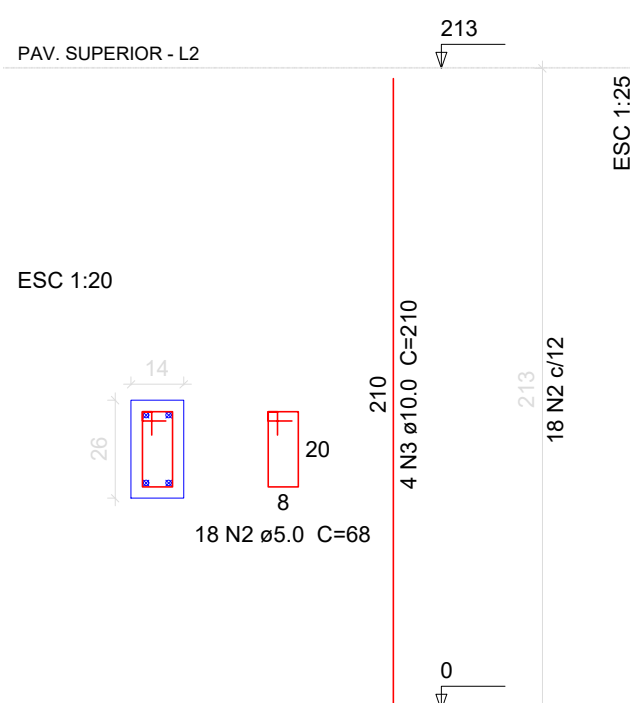
P1=P3



P10=P11



P2=P4=P5=P6



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	36	64	2304
CA50	2	5.0	110	68	7480
CA50	3	10.0	24	210	5040
CA50	4	10.0	8	225	1800

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	68.4	46.4
CA60	5.0	97.9	16.6
PESO TOTAL			
CA50		46.4	
CA60		16.6	

Vol. de concreto total (C-25) = 0.63 m³
Área de forma total = 13.7 m²

AMURES



ASSOCIAÇÃO DE MUNICÍPIOS
DA REGIÃO SERRANA

PREFEITURA MUNICIPAL DE
BOM RETIRO

4

ASSESSORIA TÉCNICA

OBRA :

REFORMA E AMPLIAÇÃO
DE SECRETARIA DE TURISMO

Projeto Estrutural

Detalhamento das vigas e pilares - Pav.
Superior

Área de ampliação: 53,16m²

Localização: Av. 24 de Outubro com Alameda
Nereu Ramos, Centro - Bom Retiro SC

PROJETO:

James André Clauberg
Eng. Civil - CREA 45.160-6

PREFEITO:

VILMAR JOSÉ NECKEL

DESENHO :

MATHEUS LORENZETTI CASAGRANDE

Escala:

Indicada

DATA :

09/2020