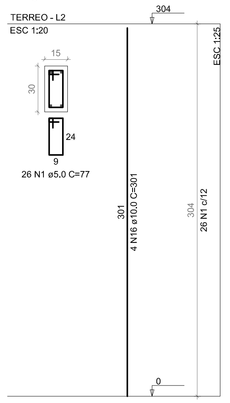
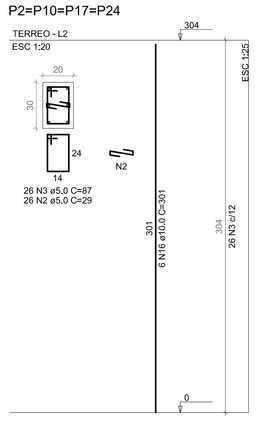
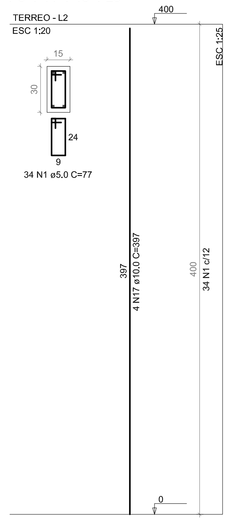
P1=P6=P9=P13=P16=P20=
=P23



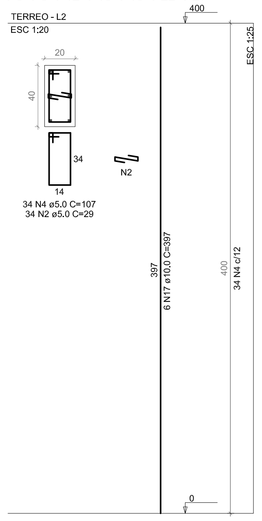
P2=P10=P17=P24



P3=P11=P18=P25



P5=P8=P12=P15=P19=P22=P27



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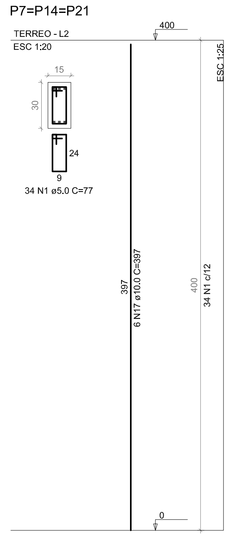


Legenda das Armaduras

⊗	Barra que morre
○	Barra que passa
⊖	Barra que nasce

CONCRETO USINADO
Fck: 25 MPa

RELAÇÃO DO AÇO

7xP1	4xP2	4xP3
7xP5	3xP7	V1
V2	V3	V4
V5	V6	V7
V8		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	1172	77	90244
	2	5,0	342	29	9918
	3	5,0	104	87	9048
	4	5,0	238	107	25466
CA50	5	8,0	2	1086	2172
	6	8,0	2	1089	2178
	7	8,0	8	1198	9584
	8	8,0	6	1033	6198
	9	8,0	2	1108	2216
	10	8,0	2	1111	2222
	11	8,0	2	1038	2076
	12	8,0	8	824	6592
	13	8,0	8	842	6736
	14	8,0	4	1113	4452
	15	8,0	4	1117	4468
	16	10,0	52	301	15652
	17	10,0	76	397	30172

RESUMO DO AÇO

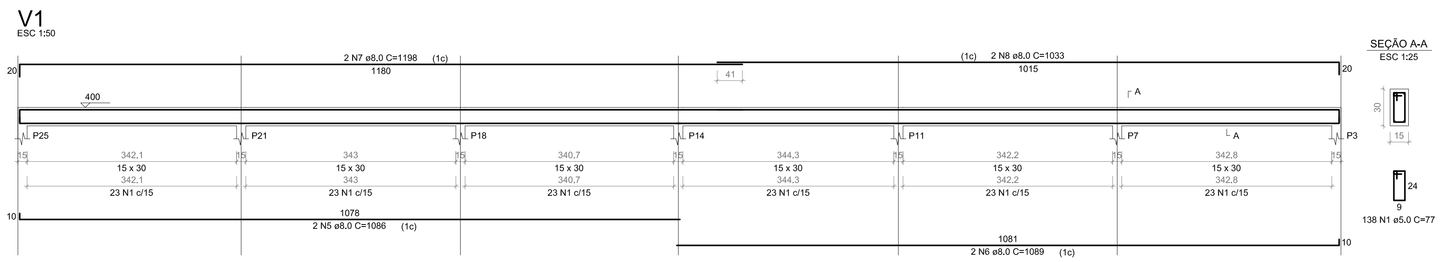
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8,0	488,9	212,2
	10,0	458,2	310,8
CA60	5,0	1348,8	228,3

PESO TOTAL (kg)	
CA50	523
CA60	228,3

Volume de concreto (C-25) = 10,57 m³
Área de forma = 179,85 m²

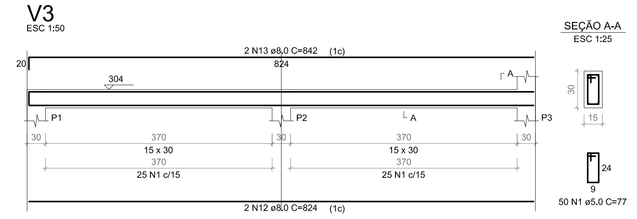
PILAR COBERTURA
Escala 1:50

V1
ESC 1:50



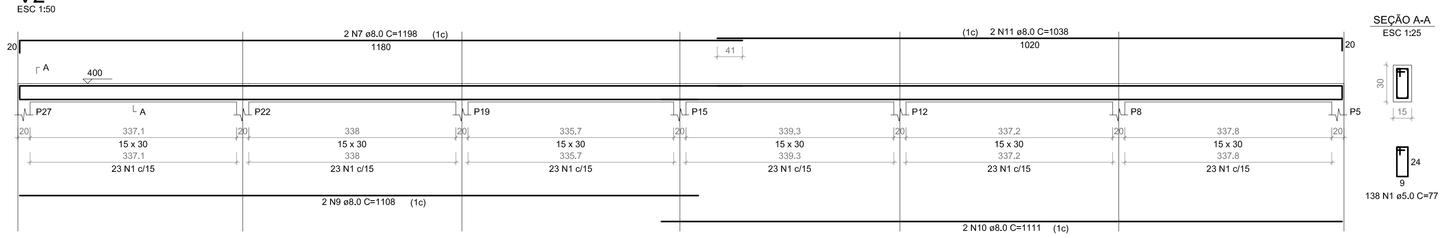
SEÇÃO A-A
ESC 1:25

V3
ESC 1:50



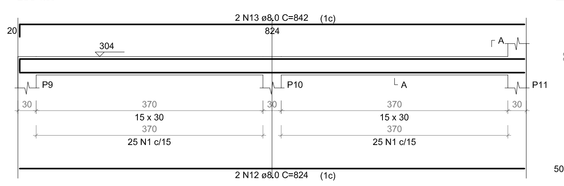
SEÇÃO A-A
ESC 1:25

V2
ESC 1:50

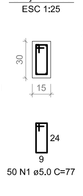


SEÇÃO A-A
ESC 1:25

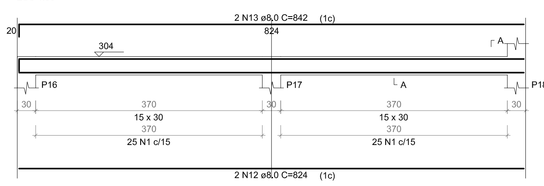
V4
ESC 1:50



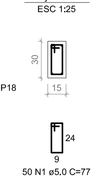
SEÇÃO A-A
ESC 1:25



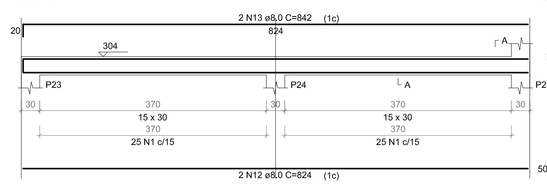
V5
ESC 1:50



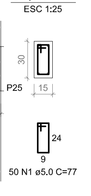
SEÇÃO A-A
ESC 1:25



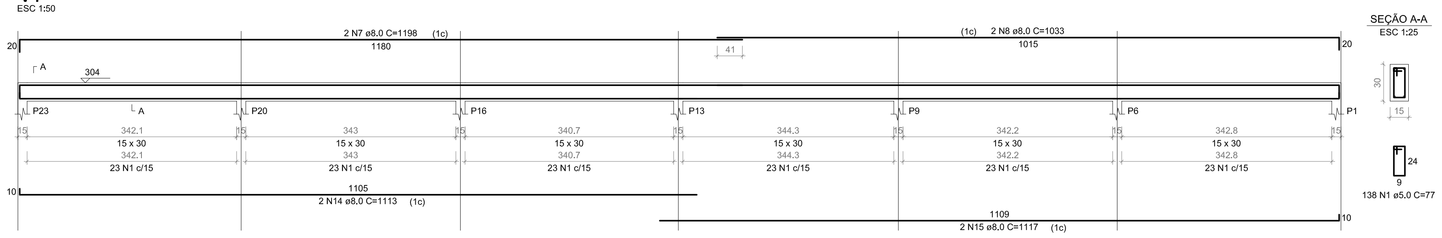
V6
ESC 1:50



SEÇÃO A-A
ESC 1:25

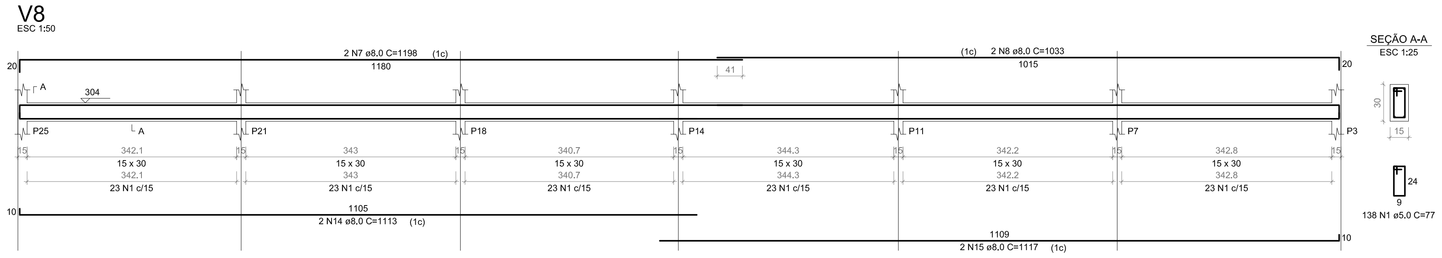


V7
ESC 1:50



SEÇÃO A-A
ESC 1:25

V8
ESC 1:50



SEÇÃO A-A
ESC 1:25

VIGAS COBERTURA
Escala 1:50

PROJETO:
IRAN CARLOS SARTORI
CREA/SC 148.174-6

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE JOAÇABA
CNPJ: 82 939380/0001-99

OBRA:
AMPLIAÇÃO E REFORMA E.M. NUPERAJO
BR 282 KM 396 (Acesso Linha Abatti) - Interior - Joaçaba (SC)

PROJETO:
Projeto Estrutural Salas e Pátio
Detalhamento Vigas e Pilares Cobertura

FOLHA: 06/09

ÁREA TERRENO: XX m²

DESENHISTA:	DATA:	ESCALA:	ÁREA EDIFICAÇÃO:
IRAN CARLOS SARTORI	FEV/2018	INDICADA	480,00 m²

FORMATO A1 - INTERNO: 801 x 574 mm.
EXTERNO: 841 x 594 mm.