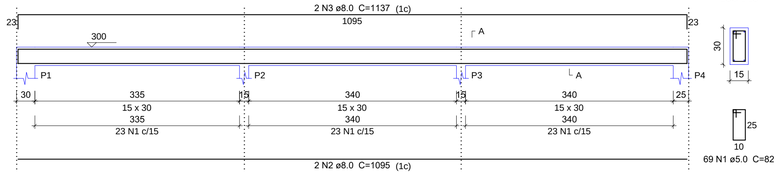
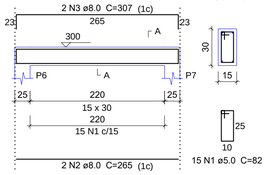
V1
ESC 1:50



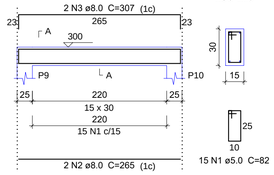
SEÇÃO A-A
ESC 1:25

V2
ESC 1:50



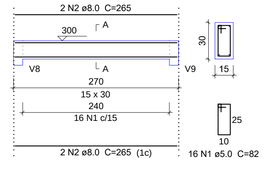
SEÇÃO A-A
ESC 1:25

V3
ESC 1:50



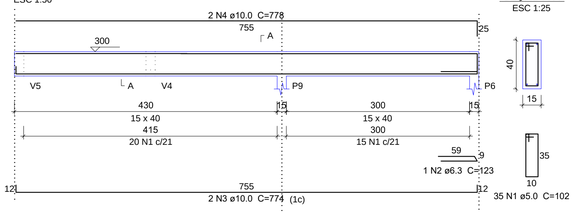
SEÇÃO A-A
ESC 1:25

V4
ESC 1:50



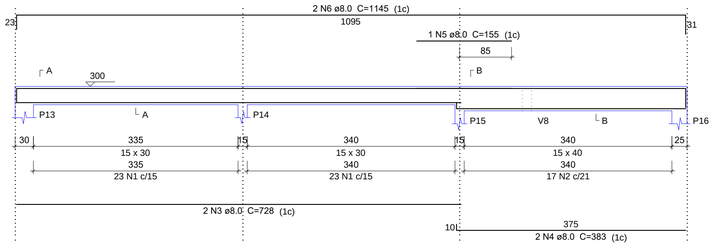
SEÇÃO A-A
ESC 1:25

V8
ESC 1:50

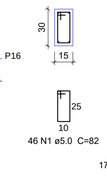


SEÇÃO A-A
ESC 1:25

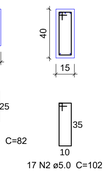
V5
ESC 1:50



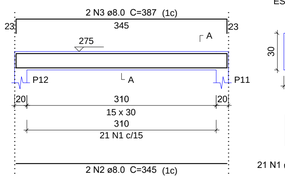
SEÇÃO A-A
ESC 1:25



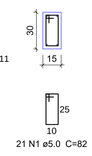
SEÇÃO B-B
ESC 1:25



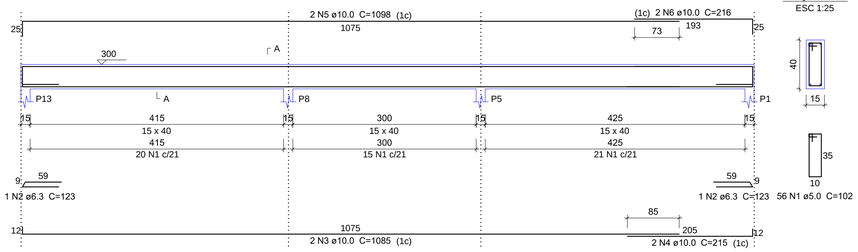
V6
ESC 1:50



SEÇÃO A-A
ESC 1:25

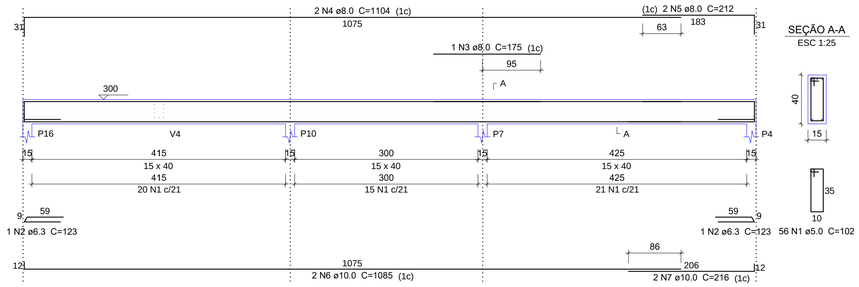


V7
ESC 1:50



SEÇÃO A-A
ESC 1:25

V9
ESC 1:50



SEÇÃO A-A
ESC 1:25

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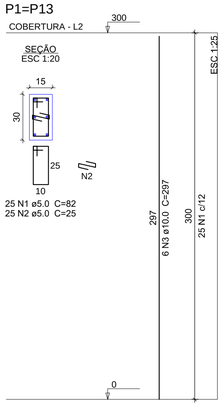
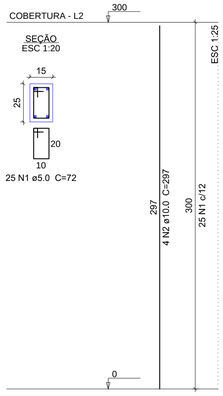
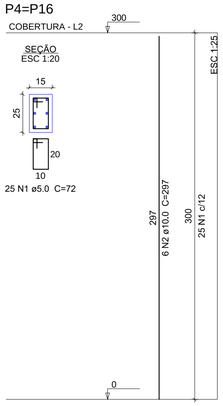


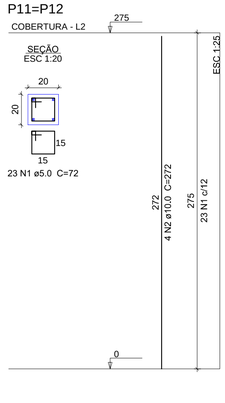
P2=P3=P5=P6=P7=P8=P9= =P10=P14=P15



P4=P16



P11=P12



Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	CA60	1	5.0	69	82	5658
	CA50	2	8.0	2	1095	2190
	CA50	3	8.0	2	1137	2274
V2	CA60	1	5.0	15	82	1230
	CA50	2	8.0	2	265	530
	CA50	3	8.0	2	307	614
V3	CA60	1	5.0	15	82	1230
	CA50	2	8.0	2	265	530
	CA50	3	8.0	2	307	614
V4	CA60	1	5.0	16	82	1312
	CA50	2	8.0	4	265	1060
V5	CA60	1	5.0	46	82	3772
	CA60	2	5.0	17	102	1734
	CA50	3	8.0	2	728	1456
	CA50	4	8.0	2	383	766
	CA50	5	8.0	1	155	155
	CA50	6	8.0	2	1145	2290
V6	CA60	1	5.0	21	82	1722
	CA50	2	8.0	2	345	690
	CA50	3	8.0	2	387	774
V7	CA60	1	5.0	56	102	5712
	CA50	2	6.3	2	123	246
	CA50	3	10.0	2	1085	2170
	CA50	4	10.0	2	215	430
	CA50	5	10.0	2	1098	2196
	CA50	6	10.0	2	216	432
V8	CA60	1	5.0	35	102	3570
	CA50	2	6.3	1	123	123
	CA50	3	10.0	2	774	1548
	CA50	4	10.0	2	778	1556
V9	CA60	1	5.0	56	102	5712
	CA50	2	6.3	2	123	246
	CA50	3	8.0	1	175	175
	CA50	4	8.0	2	1104	2208
	CA50	5	8.0	2	212	424
	CA50	6	10.0	2	1085	2170
	CA50	7	10.0	2	216	432

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	6.2	1.7
	8.0	167.5	72.7
	10.0	109.4	74.2
CA60	5.0	316.6	53.7

PESO TOTAL (kg)	
CA50	148.5
CA60	53.7

Volume de concreto (C-20) = 3.46 m³
Área de forma = 55.97 m²

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP1	CA60	1	5.0	50	82	4100
	CA60	2	5.0	50	25	1250
	CA50	3	10.0	12	297	3564
10xP2	CA60	1	5.0	250	72	18000
	CA50	2	10.0	40	297	11880
2xP4	CA60	1	5.0	50	72	3600
	CA50	2	10.0	12	297	3564
2xP11	CA60	1	5.0	46	72	3312
	CA50	2	10.0	8	272	2176

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	211.9	143.7
CA60	5.0	302.7	51.3

PESO TOTAL (kg)	
CA50	143.7
CA60	51.3

Volume de concreto (C-20) = 1.84 m³
Área de forma = 38.6 m²

PROJETO ESTRUTURAL

Obra:
CENTRO DE MÚLTIPLO USO
Aldeia Sede, s/n - Ipuaçu/SC

Data: 11/2021

Resp. Técnico:
INDIAMARA ALINE VIZOLLI:07180343927
Assinado de forma digital por INDIAMARA ALINE VIZOLLI:07180343927
DN: c=BR, o=ICP-Brasil, ou=Secretaria da Receita Federal do Brasil - RFB, ou=RFB e-CPF A3, ou=IDM, cn=INDIAMARA ALINE VIZOLLI:07180343927
Dados: 2021.11.10 11:50:02 -03'00'
Indiamara Aline Vizolli - Engenheira Civil CREA/SC 136607-4

Escala: Indicada

Município:
CLORI PEROZA:72217570978
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20537130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2021.11.10 11:29:26 -03'00'
Ipuaçu - SC

Área: 142,50 m²

Desenho:

Especificação:
Detalhamento Pilares
Detalhamento Vigas Cobertura

Prancha: ES-04