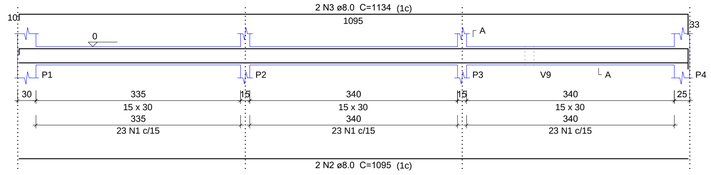
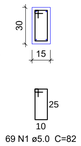
V1
ESC 1:50

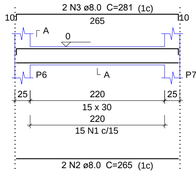


SEÇÃO A-A
ESC 1:25

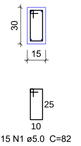


69 N1 ø5.0 C=82

V2
ESC 1:50

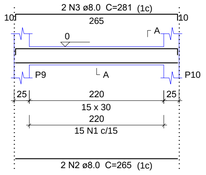


SEÇÃO A-A
ESC 1:25

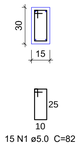


15 N1 ø5.0 C=82

V3
ESC 1:50

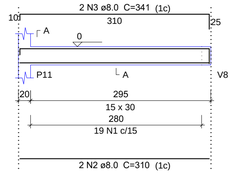


SEÇÃO A-A
ESC 1:25

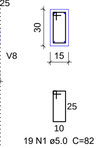


15 N1 ø5.0 C=82

V4
ESC 1:50

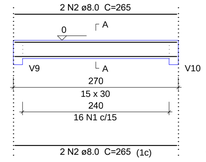


SEÇÃO A-A
ESC 1:25

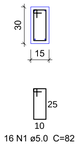


19 N1 ø5.0 C=82

V5
ESC 1:50

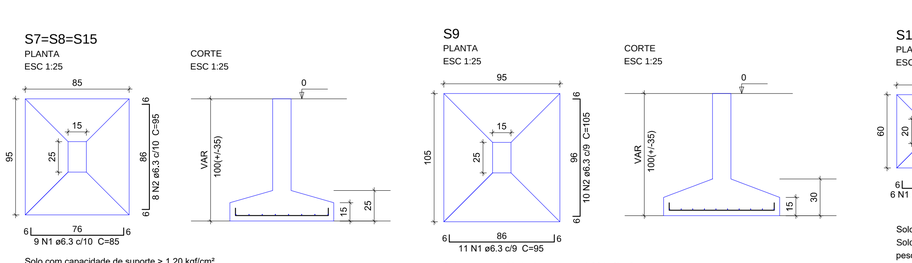


SEÇÃO A-A
ESC 1:25

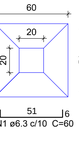


16 N1 ø5.0 C=82

V6
ESC 1:50

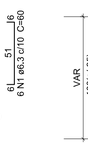


SEÇÃO A-A
ESC 1:25



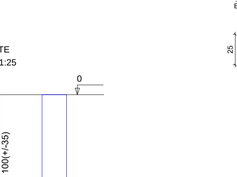
65 N1 ø5.0 C=82

SEÇÃO B-B
ESC 1:25



17 N2 ø5.0 C=102

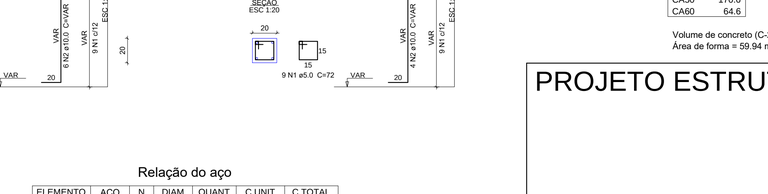
V7
ESC 1:50



SEÇÃO A-A
ESC 1:25

21 N1 ø5.0 C=82

V8
ESC 1:50

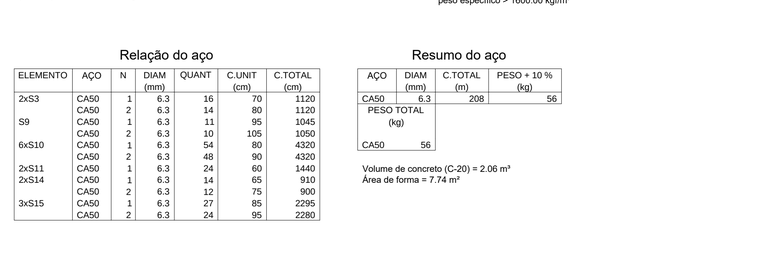


SEÇÃO A-A
ESC 1:25



77 N1 ø5.0 C=82

V9
ESC 1:50



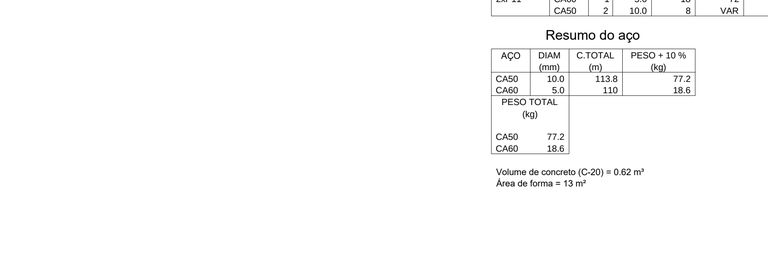
SEÇÃO A-A
ESC 1:25

35 N1 ø5.0 C=102

SEÇÃO B-B
ESC 1:25

29 N2 ø5.0 C=82

V10
ESC 1:50



SEÇÃO A-A
ESC 1:25

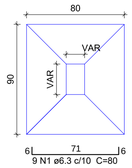


20 N1 ø5.0 C=102

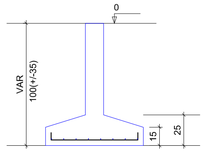
SEÇÃO B-B
ESC 1:25

49 N2 ø5.0 C=82

S1=S4=S5=S10=S13=S16
PLANTA
ESC 1:25

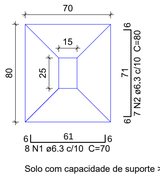


CORTE
ESC 1:25

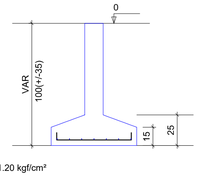


Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S2=S3
PLANTA
ESC 1:25



CORTE
ESC 1:25

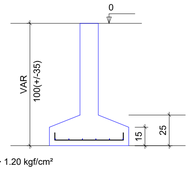


Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S6=S14
PLANTA
ESC 1:25



CORTE
ESC 1:25



Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S7=S8=S15
PLANTA
ESC 1:25

CORTE
ESC 1:25

Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S9
PLANTA
ESC 1:25

CORTE
ESC 1:25

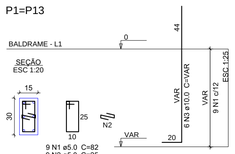
Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

S11=S12
PLANTA
ESC 1:25

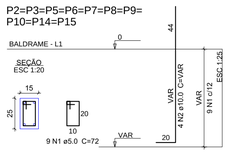
CORTE
ESC 1:25

Solo com capacidade de suporte > 1.20 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

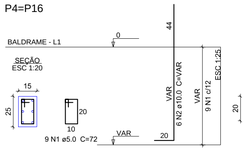
P1=P13



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)
2xP1	CA60	1	5.0	18	82	1476
	CA60	2	5.0	18	25	450
	CA50	3	10.0	12	VAR	VAR
10xP2	CA60	1	5.0	90	72	6480
	CA50	2	10.0	40	VAR	VAR
2xP4	CA60	1	5.0	18	72	1296
	CA50	2	10.0	12	VAR	VAR
2xP11	CA60	1	5.0	18	72	1296
	CA50	2	10.0	8	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	113.8	77.2
CA60	5.0	110	18.6
PESO TOTAL (kg)			
CA50	77.2		
CA60	18.6		

Volume de concreto (C-20) = 0.62 m³
Área de forma = 13 m²

Relação do aço

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xS3	CA50	1	6.3	16	70	1120
	CA50	2	6.3	14	80	1120
S9	CA50	1	6.3	11	95	1045
	CA50	2	6.3	10	105	1050
6xS10	CA50	1	6.3	54	80	4320
	CA50	2	6.3	48	90	4320
2xS11	CA50	1	6.3	24	60	1440
2xS14	CA50	1	6.3	14	65	910
	CA50	2	6.3	12	75	900
3xS15	CA50	1	6.3	27	85	2295
	CA50	2	6.3	24	95	2280

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	208	56
PESO TOTAL (kg)			
CA50	56		

Volume de concreto (C-20) = 2.06 m³
Área de forma = 7.74 m²

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	1134	2268
V2	CA60	1	5.0	15	82	1230
	CA50	2	8.0	2	265	530
	CA50	3	8.0	2	281	562
V3	CA60	1	5.0	15	82	1230
	CA50	2	8.0	2	265	530
	CA50	3	8.0	2	281	562
V4	CA60	1	5.0	19	82	1558
	CA50	2	8.0	2	310	620
	CA50	3	8.0	2	341	682
V5	CA60	1	5.0	16	82	1312
	CA50	2	8.0	4	265	1060
V6	CA60	1	5.0	65	82	5330
	CA60	2	5.0	17	102	1734
	CA50	3	8.0	2	1028	2056
	CA50	4	8.0	2	383	766
	CA50	5	8.0	1	160	160
	CA50	6	8.0	2	1198	2396
	CA50	7	8.0	2	278	556
V7	CA60	1	5.0	21	82	1722
	CA50	2	8.0	2	345	690
	CA50	3	8.0	2	361	722
V8	CA60	1	5.0	77	82	6314
	CA50	2	8.0	2	1195	2390
	CA50	3	10.0	2	1104	2208
	CA50	4	10.0	2	216	432
V9	CA60	1	5.0	35	102	3570
	CA60	2	5.0	29	82	2378
	CA50	3	10.0	2	772	1544
	CA50	4	10.0	2	501	1002
	CA50	5	10.0	1	306	306
	CA50	6	10.0	2	958	1916
	CA50	7	10.0	2	270	540
V10	CA60	1	5.0	20	102	2040
	CA60	2	5.0	49	82	4018
	CA50	3	6.3	2	123	246
	CA50	4	10.0	2	457	914
	CA50	5	10.0	2	773	1546
	CA50	6	10.0	2	1099	2198
	CA50	7	10.0	2	229	458

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	2.5	0.7
	8.0	187.4	81.3
	10.0	130.7	88.6
CA60	5.0	381	64.6
PESO TOTAL (kg)			
CA50	170.6		
CA60	64.6		

Volume de concreto (C-20) = 3.64 m³
Área de forma = 59.94 m²

PROJETO ESTRUTURAL

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

Data:
11/2021

Escala:
Indicada

Área:
142,50 m²

Desenho:

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 A1, ou=IDAMARA, ou=29986253000105, cn=INDIAMARA ALINE VIZOLLI:07180343927
Dados: 2021.11.10 11:48:40 -03'00'
Indiamara Aline Vizolli - Engenheira Civil CREA/SC 136607-4

Município:
CLORI PEROZA:7221757097
Assinado de forma digital por CLORI PEROZA:72217570978
DN: c=BR, o=ICP-Brasil, ou=AC SOLUTI Multipla v5, ou=20937130000162, ou=Presencial, ou=Certificado PF A3, cn=CLORI PEROZA:72217570978
Dados: 2021.11.10 11:27:17 -03'00'
8
Ipuaçu - SC

Especificação:
Detalhamento Fundações
Detalhamento Pilaretes
Detalhamento Vigas Baldrame

Prancha:
ES-03