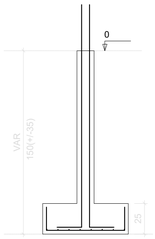
S12=S13=S14=S15=S16=S17=S18=S19=S20=S21

PLANTA
ESC 1:25

CORTE
ESC 1:25



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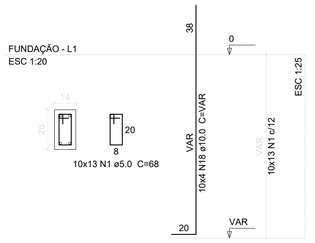
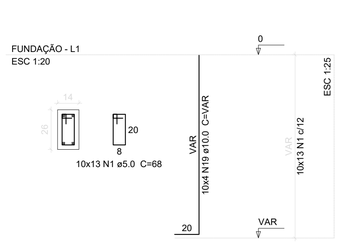
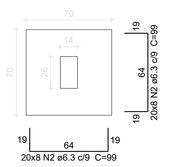


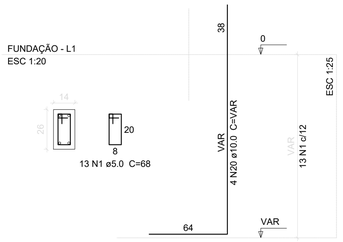
P12=P13=P14=P15=P16=P17=P18=P19=P20=P21



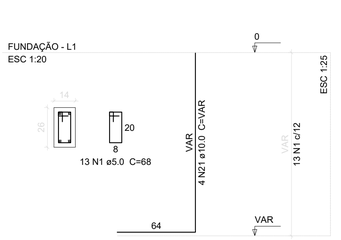


Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

P11

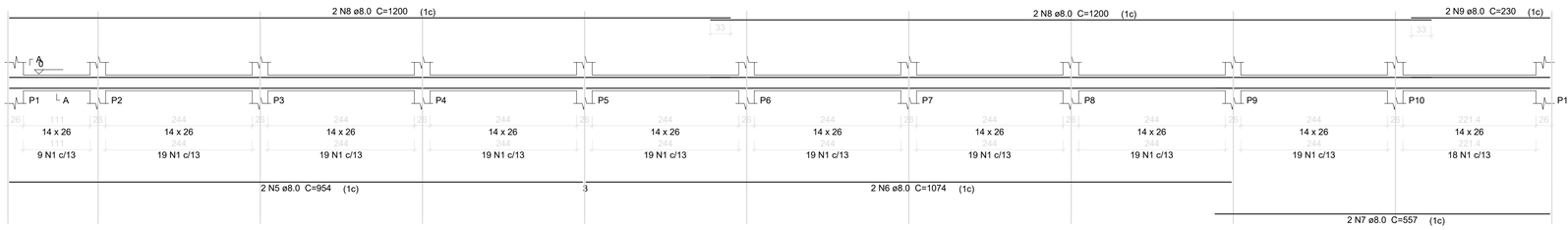


P22

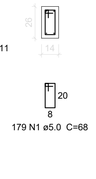


VB101

ESC 1:50

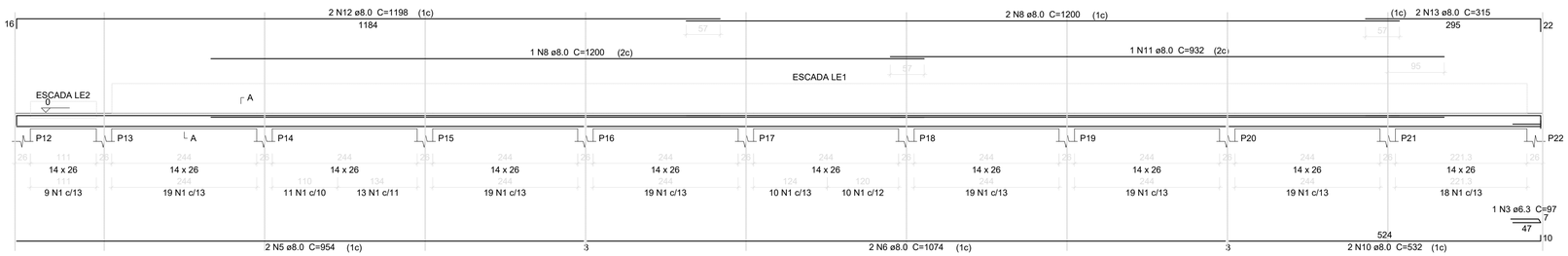


SEÇÃO A-A
ESC 1:25



VB102

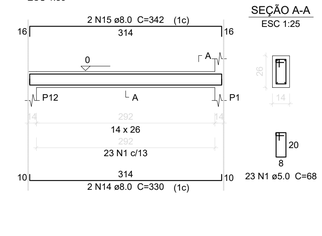
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB103

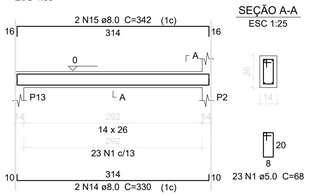
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB104

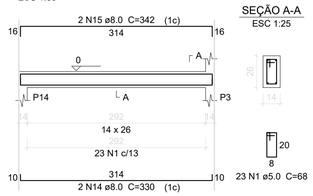
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB105

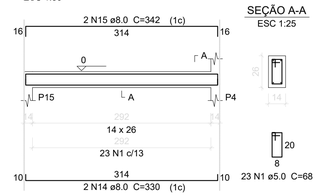
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB106

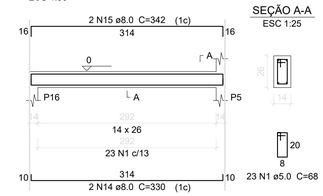
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB107

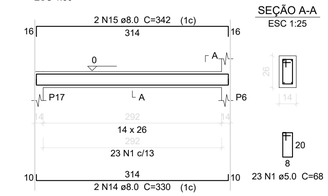
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB108

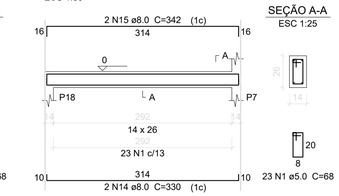
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB109

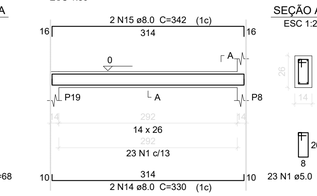
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB110

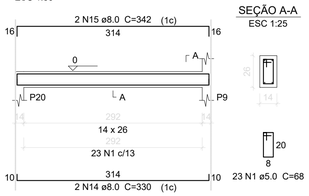
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB111

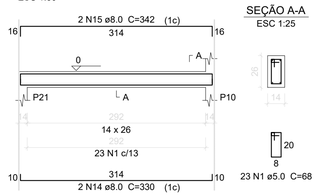
ESC 1:50



SEÇÃO A-A
ESC 1:25

VB112

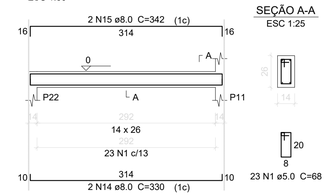
ESC 1:50



SEÇÃO A-A
ESC 1:25

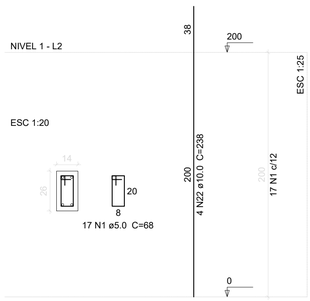
VB113

ESC 1:50



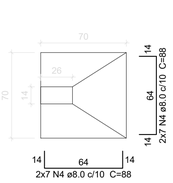
SEÇÃO A-A
ESC 1:25

P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11

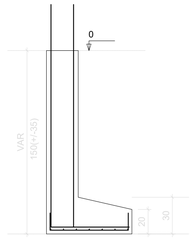


S1=S2=S3=S4=S5=S6=S7=S8=S9=S10=S11=S22

PLANTA
ESC 1:25



CORTE
ESC 1:25



Solo com capacidade de suporte > 2.00 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

Relação do aço

FUNDAÇÃO:	S1	S11
	VB101	VB102
	VB103	VB104
	VB105	VB106
	VB107	VB108
	VB109	VB110
	VB111	VB112
	VB113	
NIVEL 1:	11xP1	V201

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1272	68	86496
CA50	2	6.3	320	99	31680
	3	6.3	2	97	194
	4	8.0	28	88	2464
	5	8.0	6	954	5724
	6	8.0	6	1074	6444
	7	8.0	2	557	1114
	8	8.0	12	1200	14400
	9	8.0	2	230	460
	10	8.0	4	532	2128
	11	8.0	1	932	932
	12	8.0	2	1198	2396
	13	8.0	2	315	630
	14	8.0	22	330	7260
	15	8.0	22	342	7524
	16	8.0	1	945	945
	17	8.0	2	292	584
	18	10.0	40	VAR	VAR
	19	10.0	40	VAR	VAR
	20	10.0	4	VAR	VAR
	21	10.0	4	VAR	VAR
	22	10.0	44	238	10472

Resumo do aço

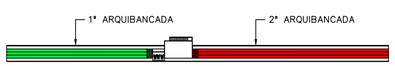
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	318.8	85.8
	8.0	530.1	230.1
	10.0	271.5	184.1
CA60	5.0	865	146.7
PESO TOTAL			
CA50	500		
CA60	146.7		

Vol. de concreto total (C-25) = 8.78 m³
Área de forma total = 133.38 m²

NOTAS

1 – Medidas em centímetros.

LEGENDA



ATUALIZAÇÃO

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
0	EMISSÃO INICIAL	16/09/21	S.S.R.	G.V.M.	G.V.M.

CONTRATADA: CARVALHO AMARAL ENGENHARIA
CNPJ Nº. 16.783.066/0001-35
Avenida Mestra Fininha, nº 726, 1º andar
Centro, Montes Claros/MG,
CEP: 39401-074
RESP. TEC. LWAN MATHEUS COSTA SOUZA
REG. CREA: 255.542/D

CONTRATANTE: PREFEITURA MUNICIPAL DE JOSENÓPOLIS/MG
CNPJ Nº. 01.612.503/0001-80
Rua Santos Pestana, s/n
Centro, Josenópolis/MG,
CEP: 39.575-000
MUNICÍPIO/ÁREA: MUNICÍPIO DE JOSENÓPOLIS/MG
RESPONSÁVEL CONTRATANTE: PREF. MUNICIPAL DE JOSENÓPOLIS

TITULO: PROJETO ESTRUTURAL
CONSTRUÇÃO DE ESTÁDIO (2ª ARQUIBANCADA)
PILARES, VIGAS, SAPATAS E QUADRO DE AÇOS (PARTE1)
ENDEREÇO DA OBRA: AV. GUMERCINO JOSÉ PESTANA, S/Nº, PERIFÉRICO

DATA: 16/09/2021
ESCALA: INDICADA
PRANCHA: 04/08

ARQUIVO: DE-2021.1701-MG.JOS-EST-EXE.001=0