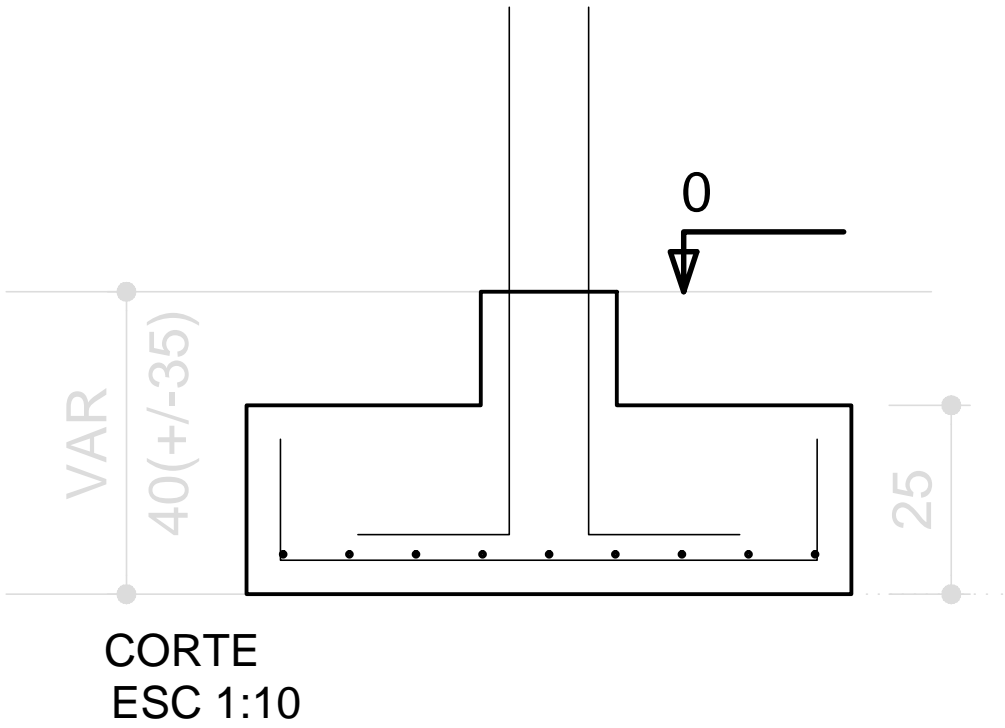
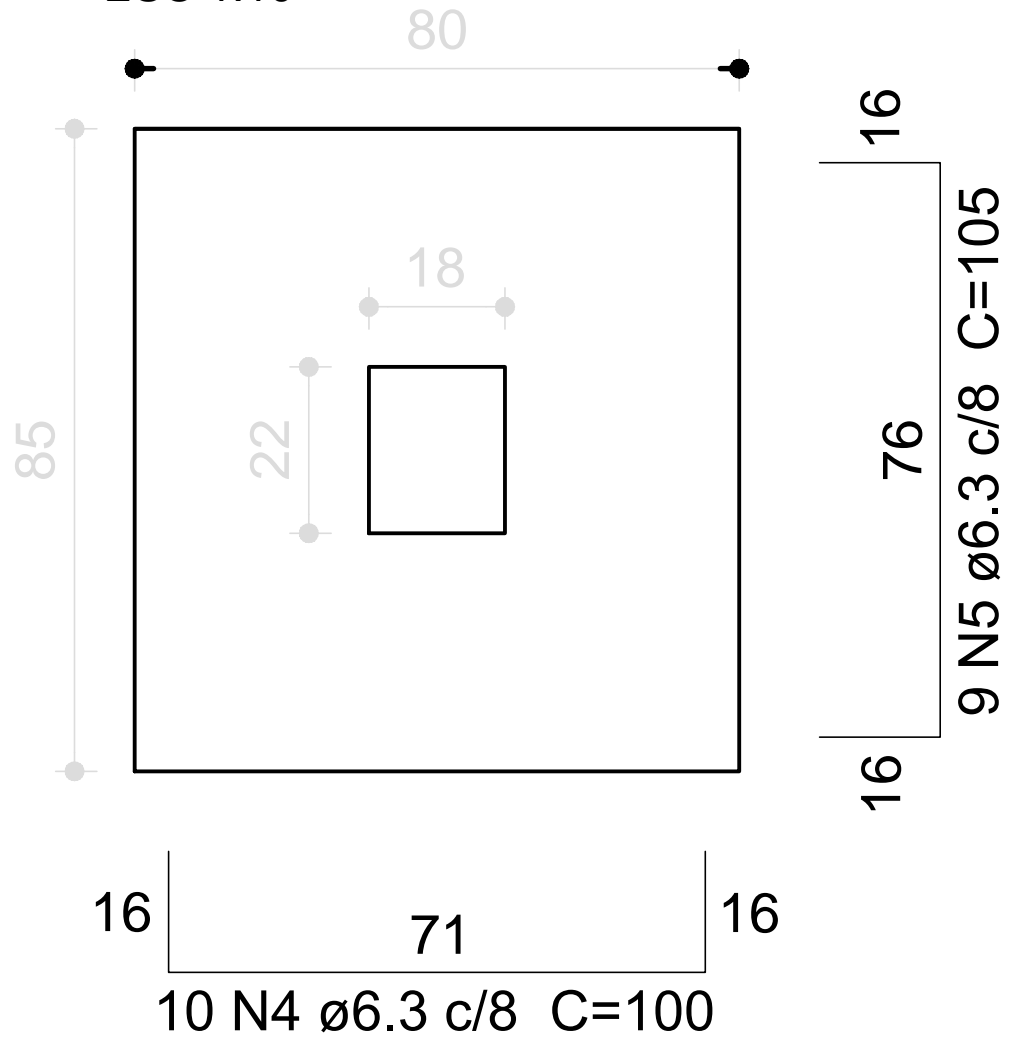


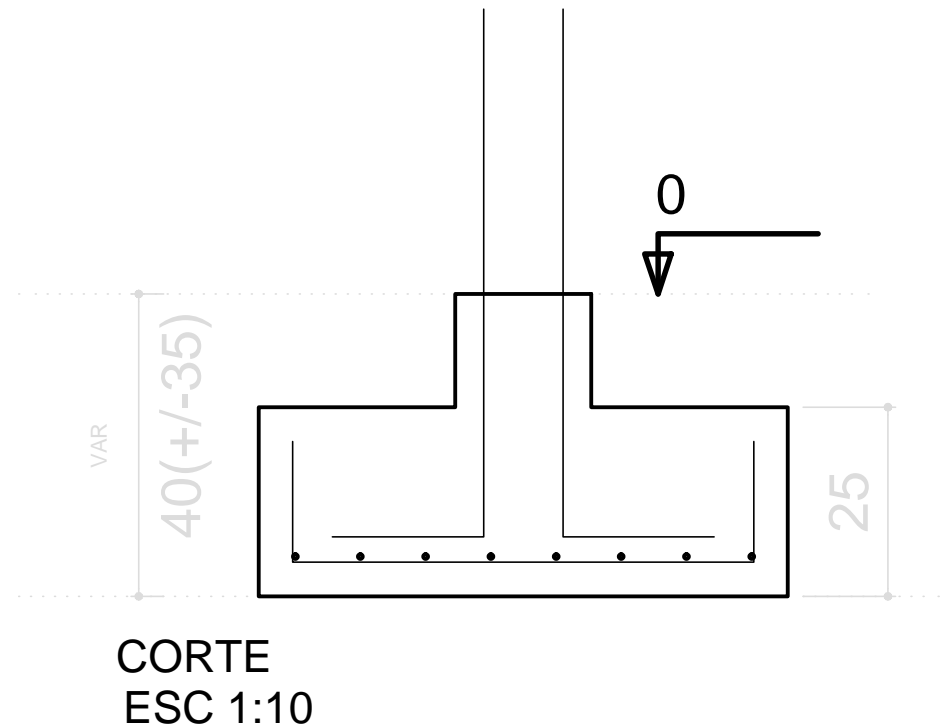
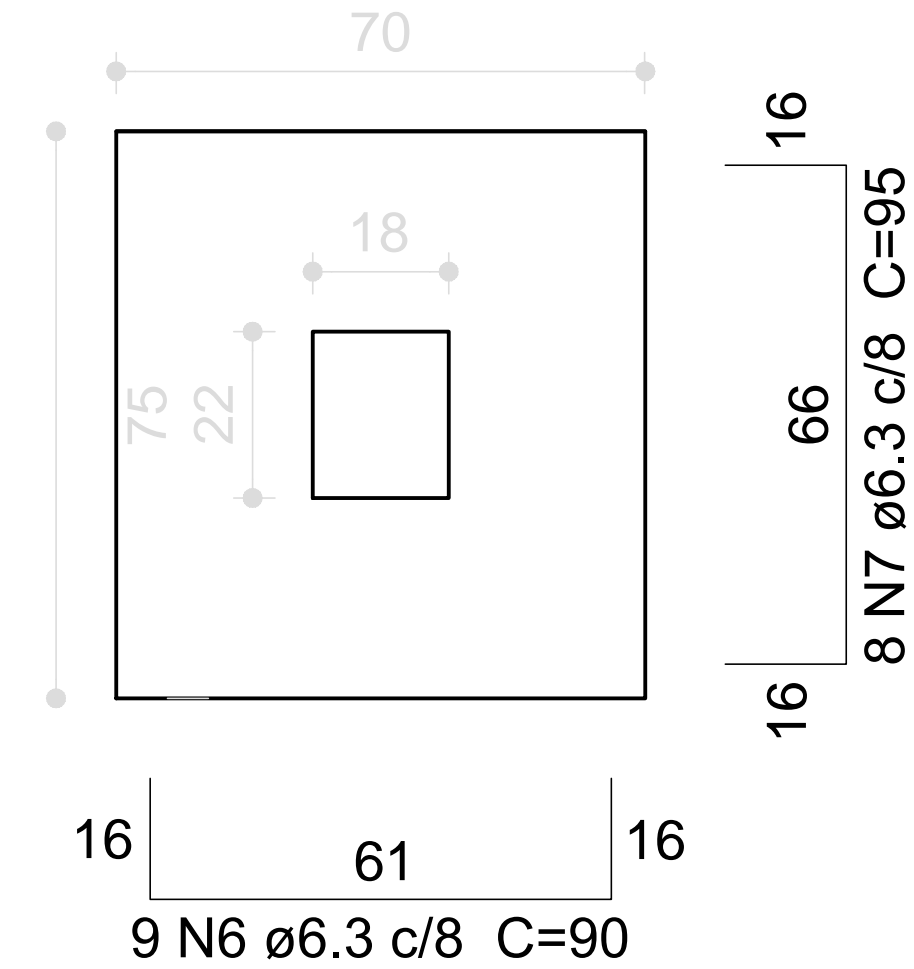
S1=S4

PLANTA
ESC 1:10



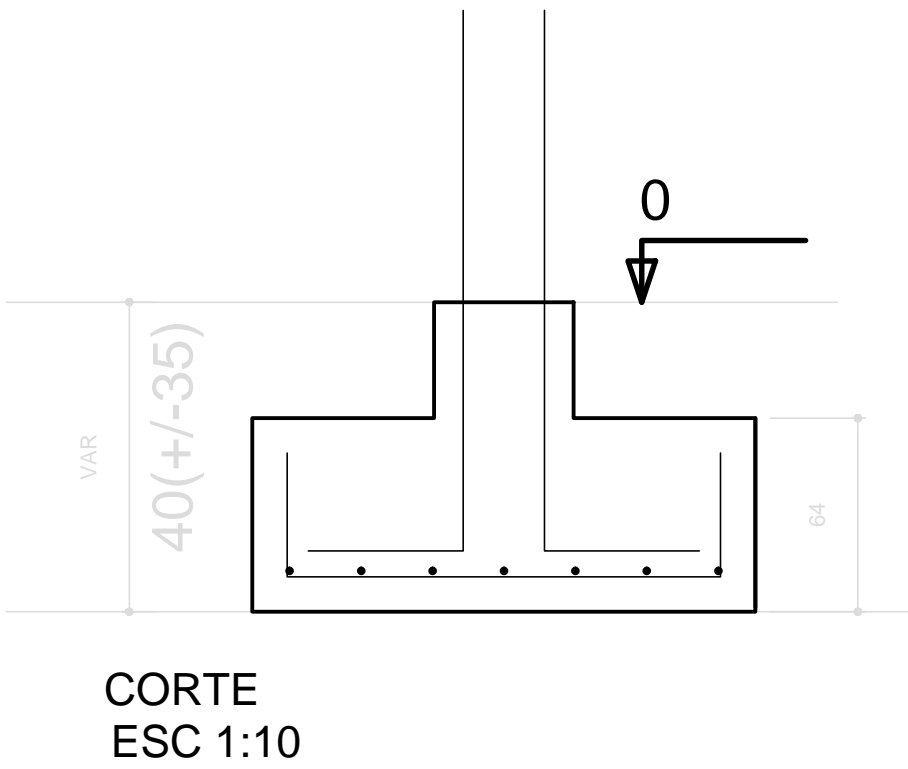
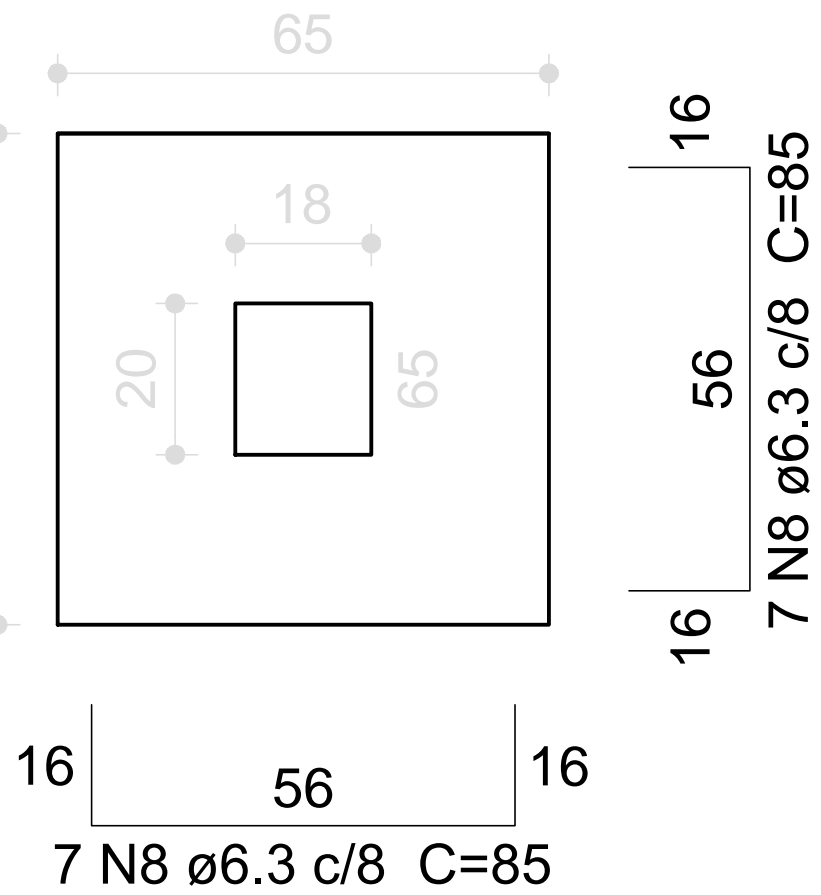
S2=S3=S6

PLANTA
ESC 1:10



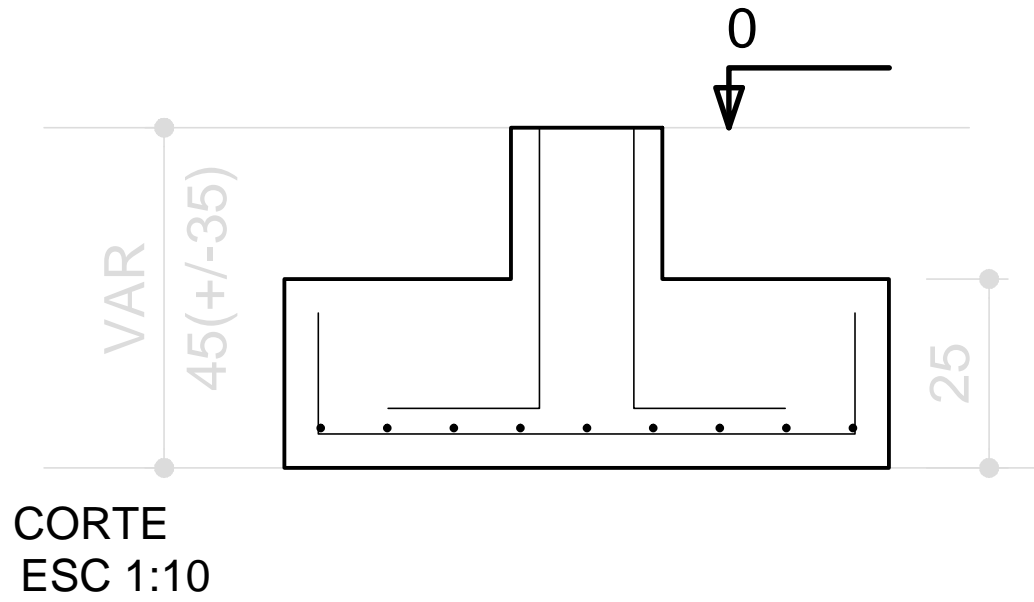
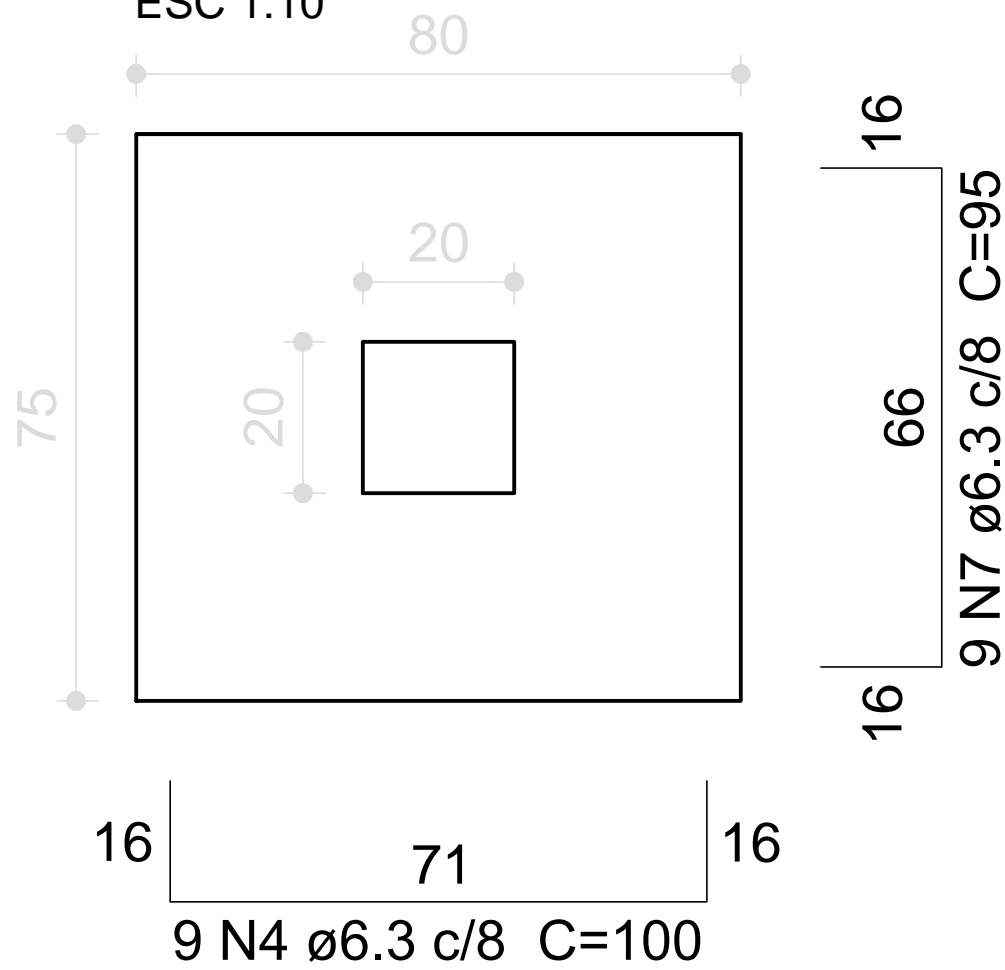
S5

PLANTA
ESC 1:10



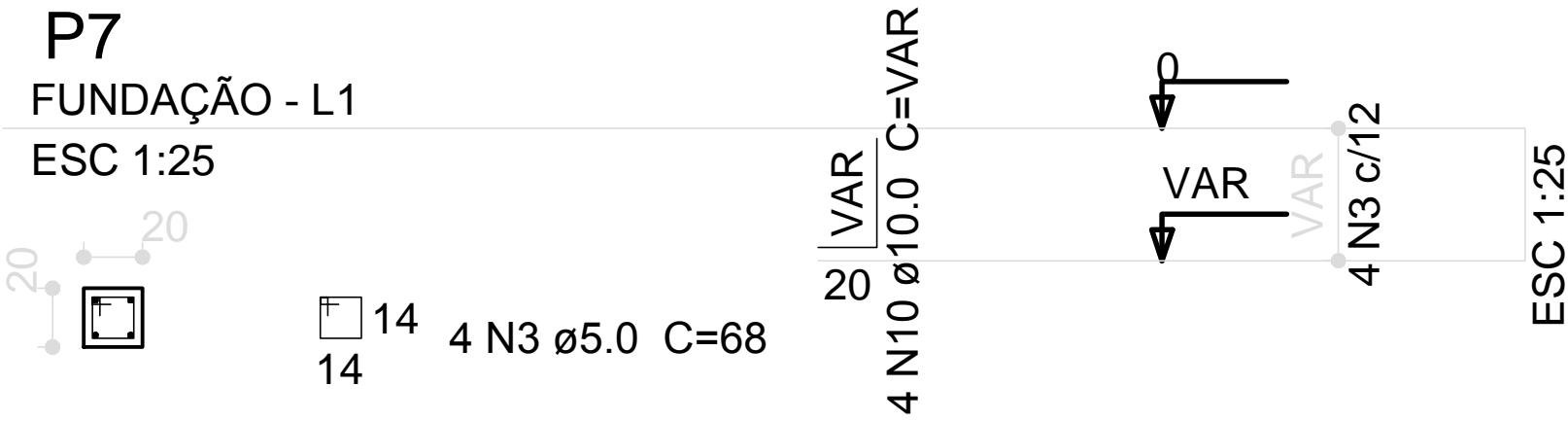
S7

PLANTA
ESC 1:10



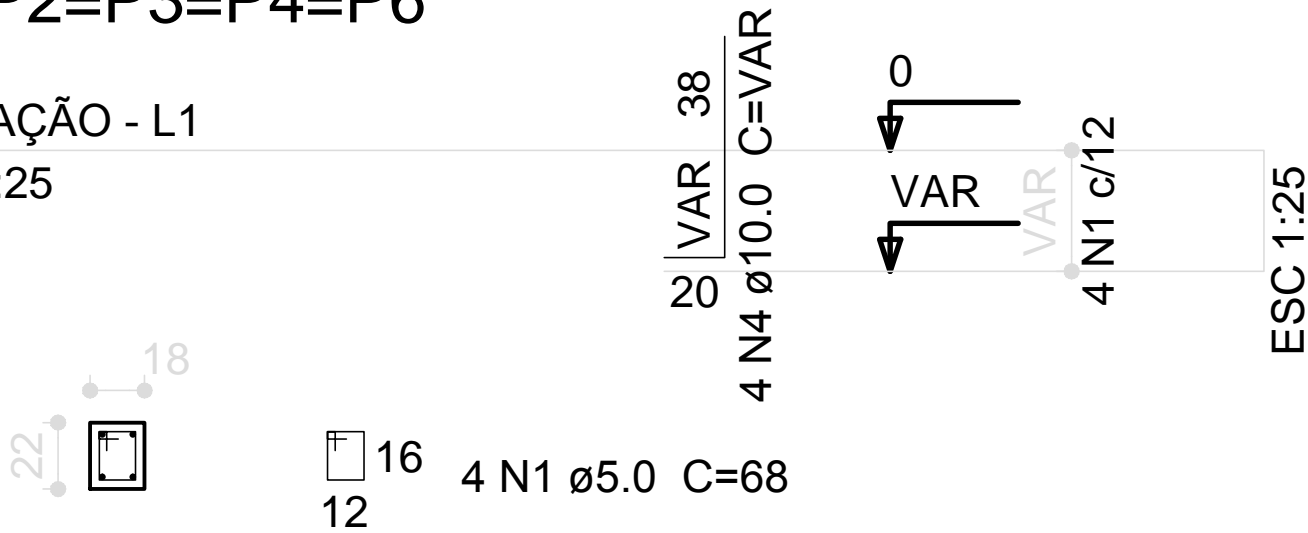
P7

FUNDAÇÃO - L1
ESC 1:25



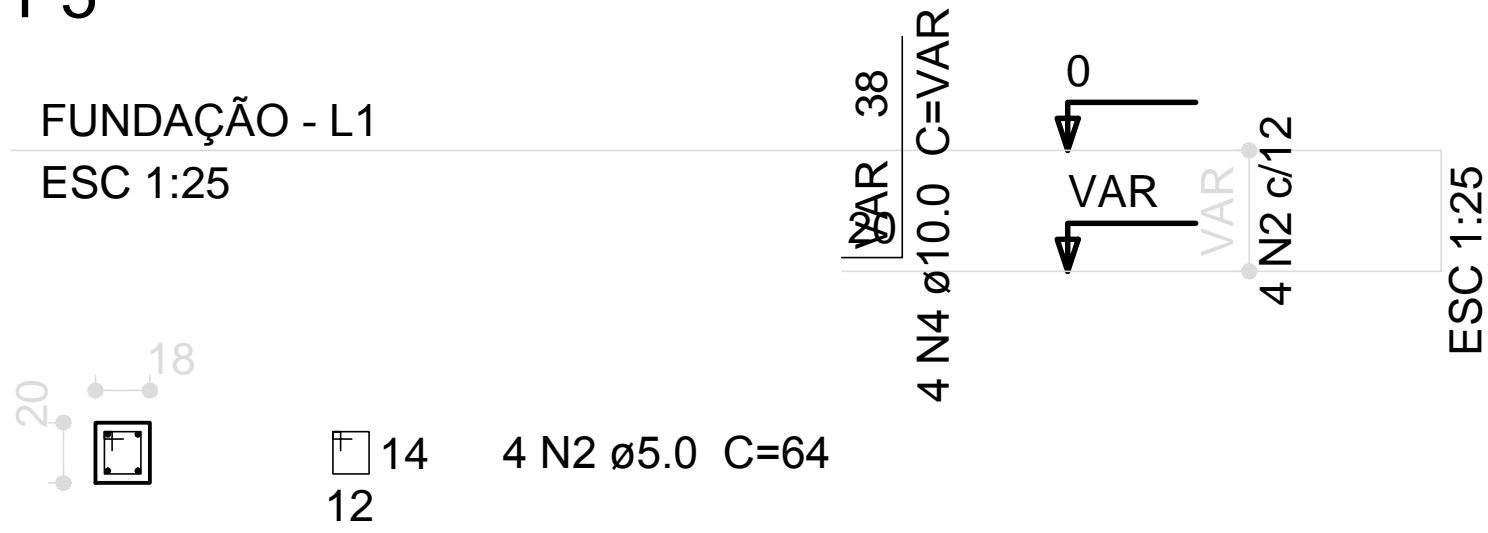
P1=P2=P3=P4=P6

FUNDAÇÃO - L1
ESC 1:25



P5

FUNDAÇÃO - L1
ESC 1:25



Relação do aço

5xP1		P5		P7	
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	68	1360
	2	5.0	4	64	256
	3	5.0	4	68	272
CA50	4	10.0	24	VAR	VAR
	5	10.0	4	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	24.3	16.5
CA60	5.0	18.9	3.2
PESO TOTAL (kg)			
CA50	16.5		
CA60	3.2		

Volume de concreto (C-25) = 0.11 m³
Área de forma = 2.26 m²

Relação do aço

2xS1 S7		3xS3		S5	
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	20	68	1360
	2	5.0	4	64	256
	3	5.0	4	68	272
CA50	4	6.3	29	100	2900
	5	6.3	18	105	1890
	6	6.3	27	90	2430
	7	6.3	33	95	3135
	8	6.3	14	85	1190
	9	10.0	24	VAR	VAR
	10	10.0	4	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	115.5	31.1
CA60	5.0	24.3	16.5
PESO TOTAL (kg)			
CA50	47.5		
CA60	3.2		

Volume de concreto (C-25) = 1.1 m³
Área de forma = 7.51 m²



SECRETARIA DE COORDENAÇÃO E PLANEJAMENTO
UNIDADE DE GERENCIAMENTO DE PROJETOS

QUIOSQUES PRAIA DO LARANJAL

PROJETO ESTRUTURAL - VIGAS DE SAPATAS ESPERAS PILARES

Prancha
01/04

EQUIPE TÉCNICA DA UGP

Eng. Civil - Karen B. Almeida Esperança - CREA/RS 133.204
Arquiteto - Alexandre Silveira Vergara - CAU/RS A39209-0

Escala
Data
ABR / 2016