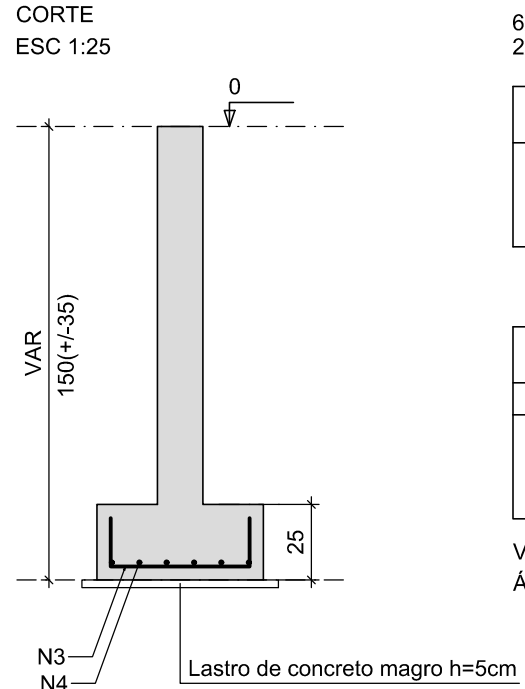
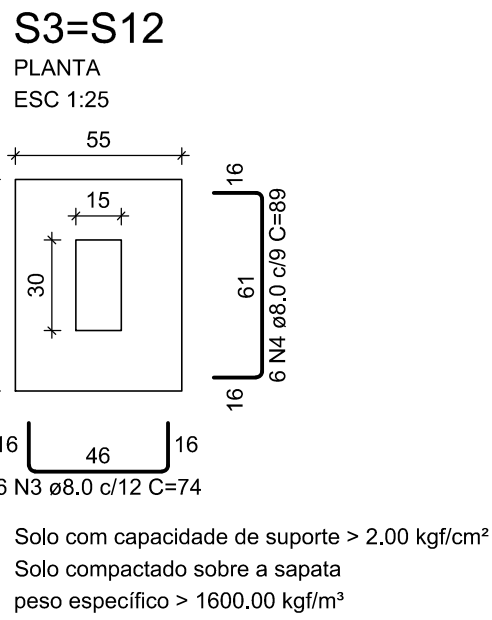
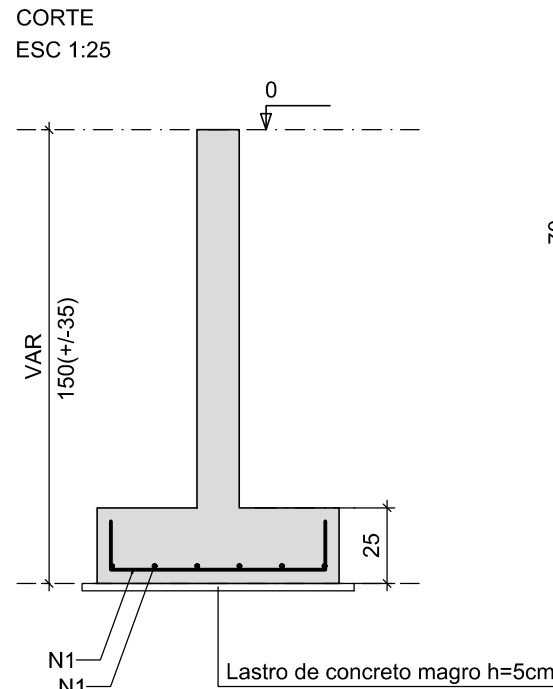
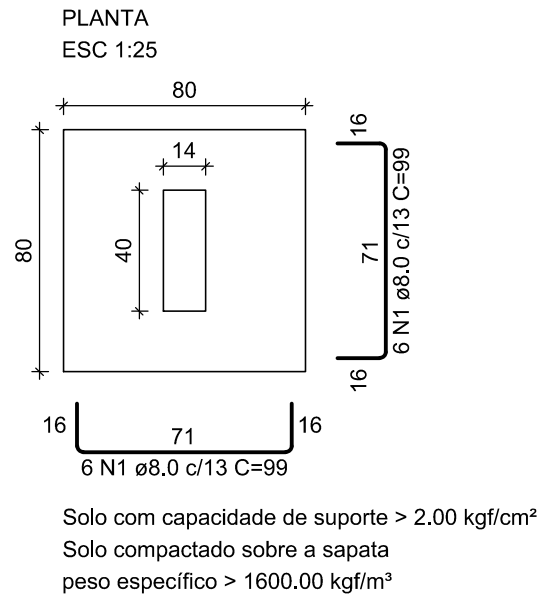
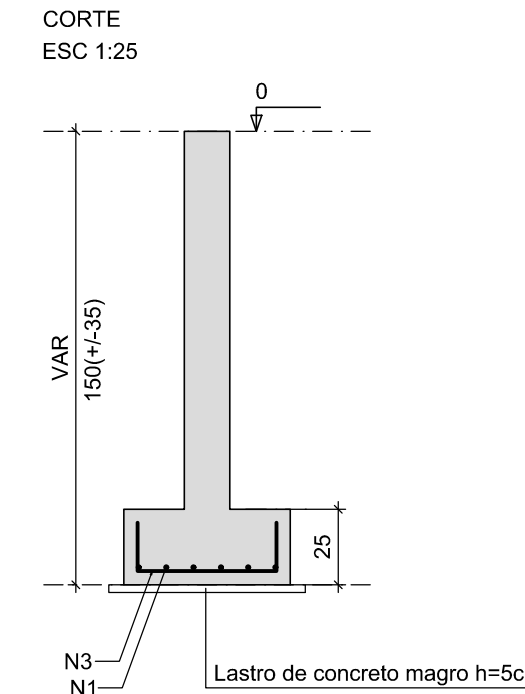
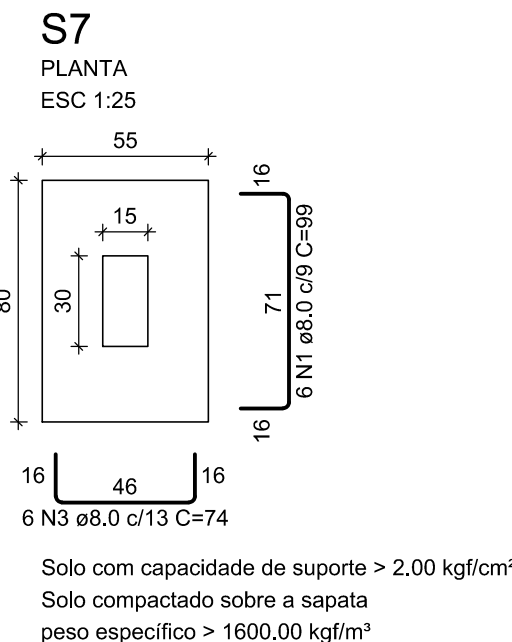
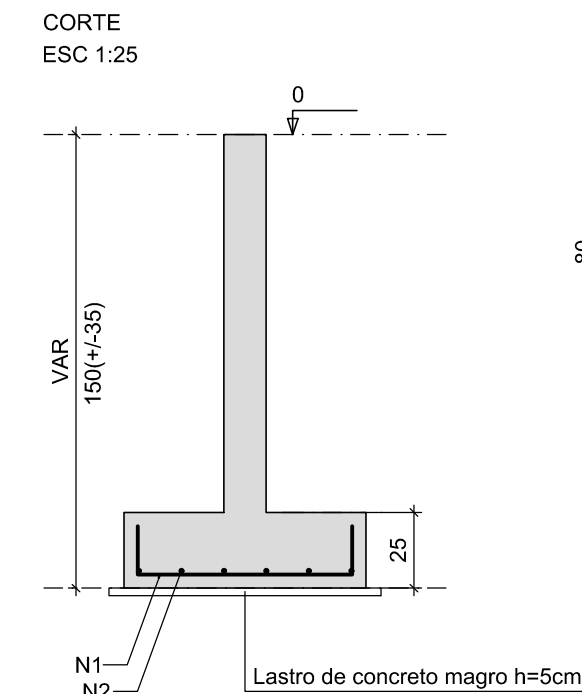
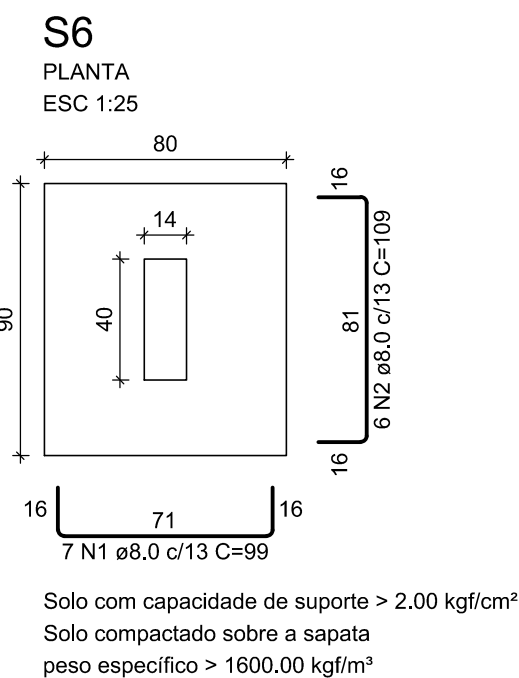
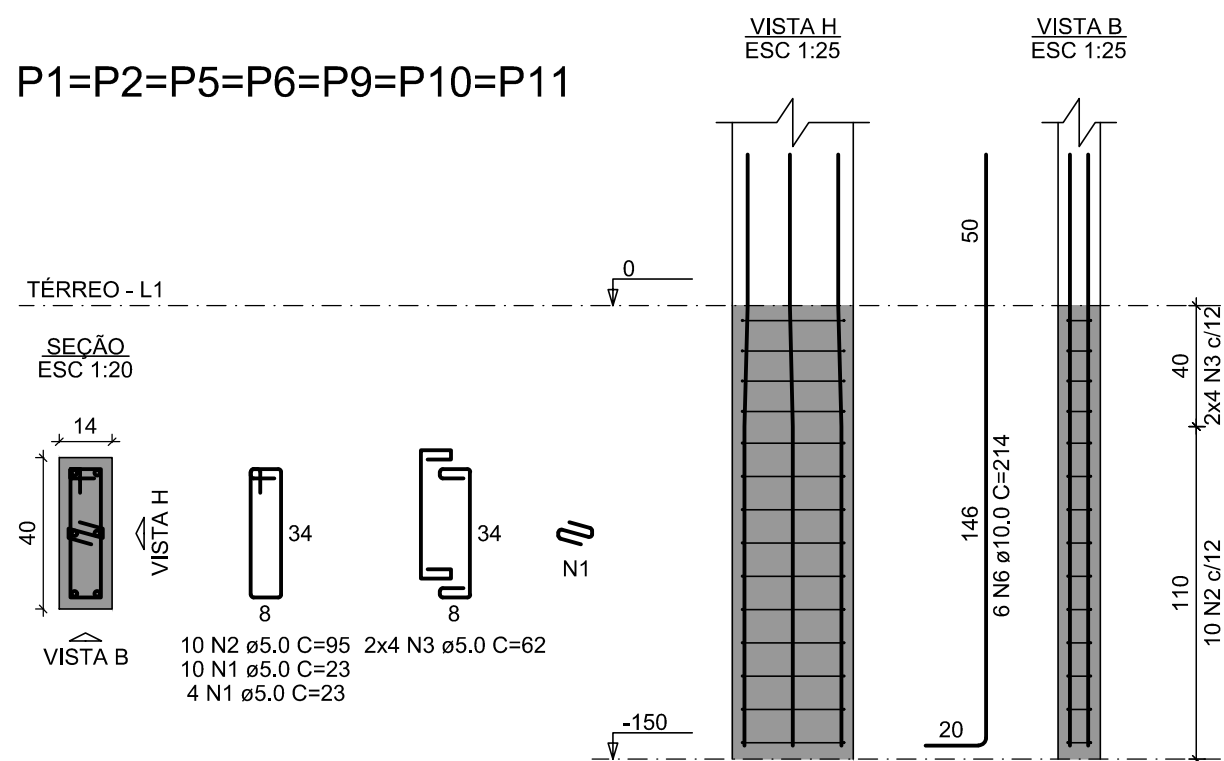

$$S_1=S_2=S_5=S_9=S_{10}=S_{11}$$


RELAÇÃO DO AÇO					
6xS1 2xS12		S6		S7	
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8,0	85	99	8415
	2	8,0	6	109	654
	3	8,0	18	74	1332
	4	8,0	12	89	1068

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	8.0	114.7	45.3

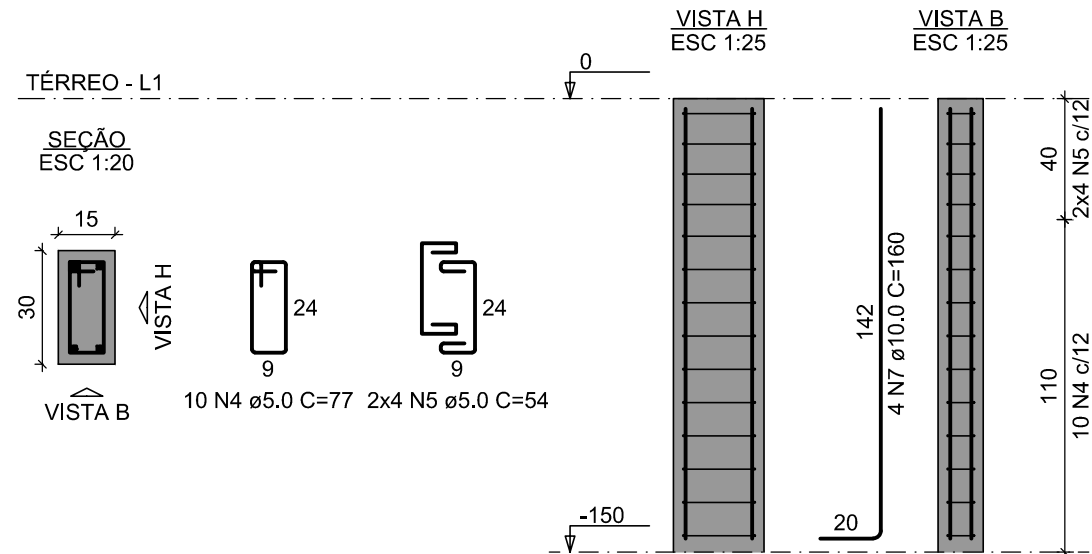
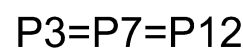
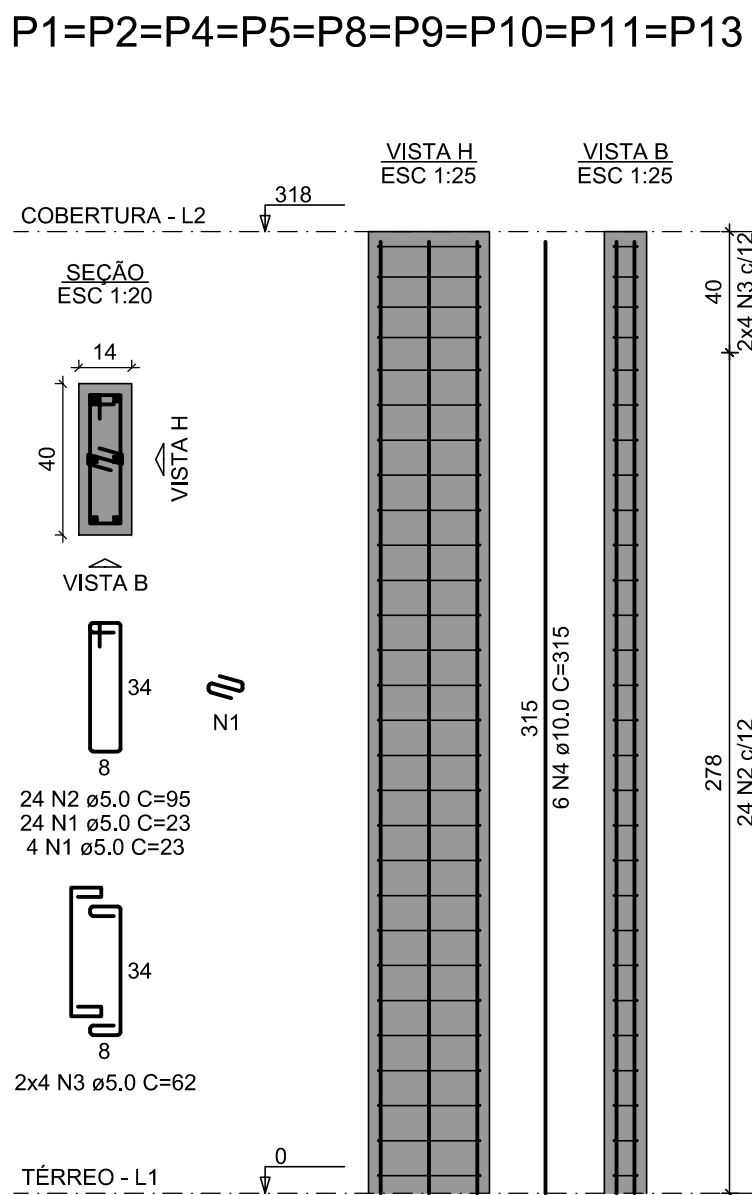
Volume de concreto (C-25) = 1.44 m³
Área de forma = 7.58 m²


$$P1=P2=P5=P6=P9=P10=P11$$


RELAÇÃO DO AÇO					
7xP1		3xP3			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	98	23	2254
	2	5,0	70	95	6650
	3	5,0	56	62	3472
	4	5,0	30	77	2310
	5	5,0	24	54	1296
CA50	6	10,0	42	214	8988
	7	10,0	12	160	1920

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10,0	109,1	67,3
CA60	5,0	159,8	24,6

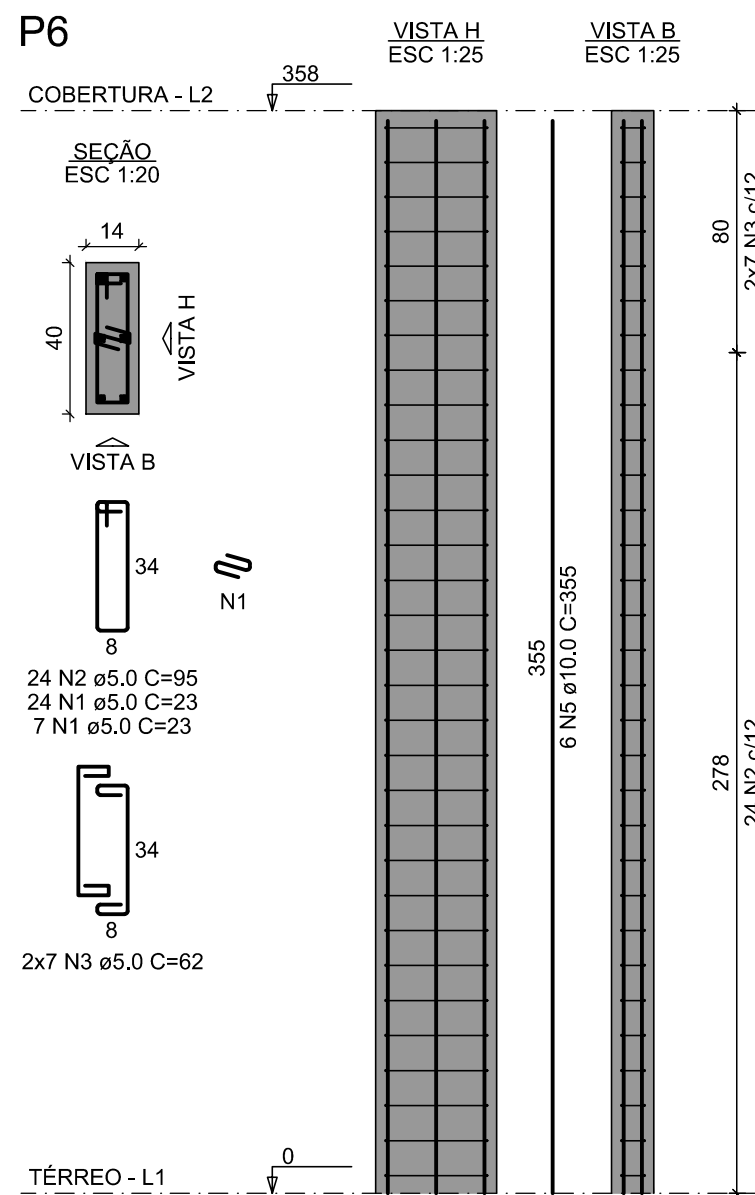
Volume de concreto (C-25) = 0.79 m³
Área de forma = 15.39 m²


$$P_1 = P_2 = P_4 = P_5 = P_8 = P_9 = P_{10} = P_{11} = P_{13}$$


RELAÇÃO DO AÇO					
9xP1		P6			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	283	23	6509
	2	5,0	240	95	22800
	3	5,0	86	62	5332
CA50	4	10,0	54	315	17010
	5	10,0	6	355	2130

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	10.0	191.4	118
CA60	5.0	346.4	53.4

Volume de concreto (C-25) = 1,80 m³
Área de forma = 34,78 m²

[illegible]

CARIMBOS E APROVAÇÕES

ESTRUTURAL

MUNICÍPIO

RANCHO QUEIMADO - SC

OBRA
AMPLIAÇÃO DO CENTRO DE EDUCAÇÃO
MUNICIPAL MENINO JESUS

CONTEÚDO
LOCAÇÃO DOS PILARES E SAPATAS,
FORMAS E ARMADURAS:
SAPATAS, PILARES DO TÉRREO E COBERTURA

PROJETO

Eng.Civil Virginia Maria Wolff Junckes

CREA-SC 37928-1

DESENHO

Virgí

ESCALA
Indicada

ÁREA	70,80m ²
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01

ASSOCIAÇÃO DOS MUNICÍPIOS
DA REGIÃO DA GRANDE FLORIANÓPOLIS
"GRANFOPOLIS"
ASSESSORIA DE ENGENHARIA E ARQUITETURA