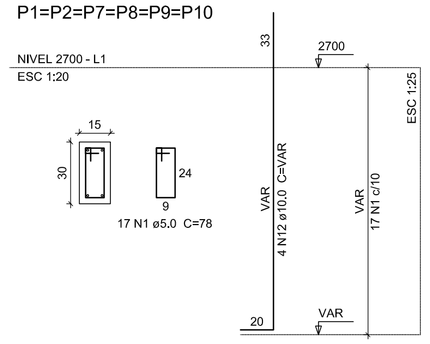
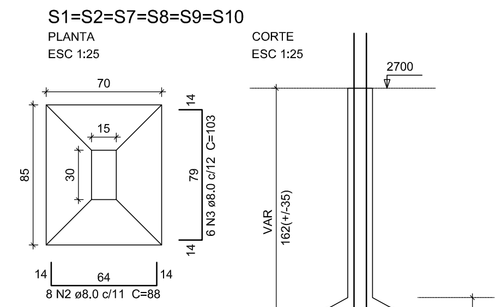
P1=P2=P7=P8=P9=P10

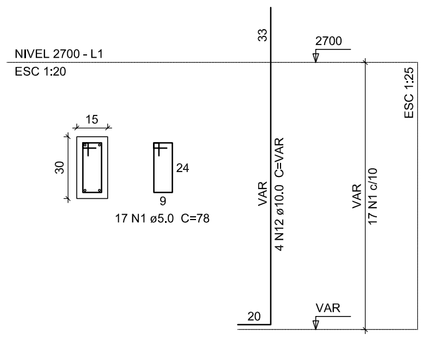


S1=S2=S7=S8=S9=S10

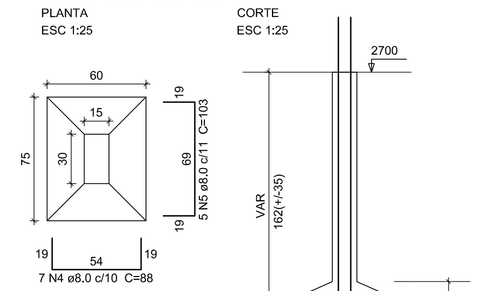


Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³

P3=P6=P11=P12=P19

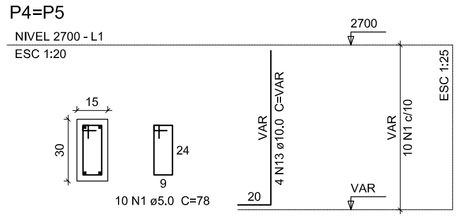


S3=S6=S11=S12=S19

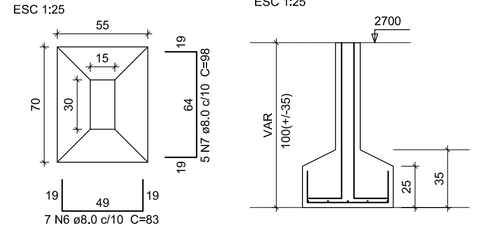


Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³

P4=P5

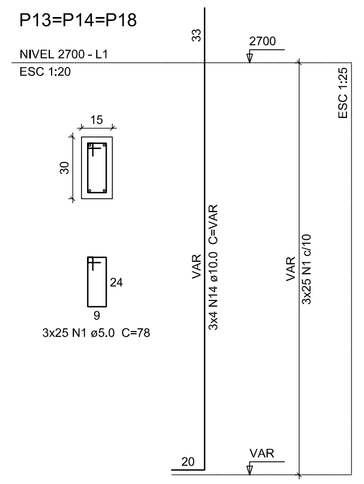


S4=S5

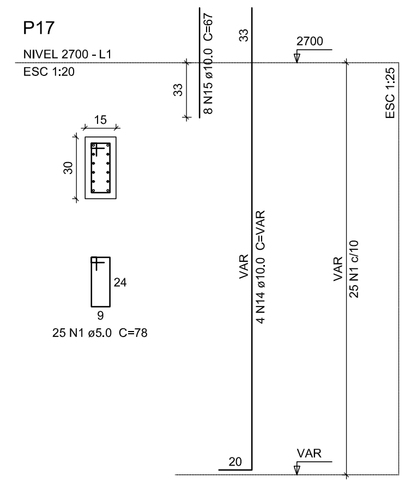


Solo compactado sobre a sapata
peso específico > 1800,00 kgf/m³

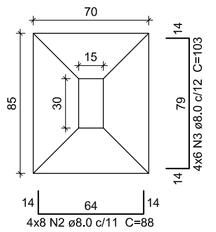
P13=P14=P18



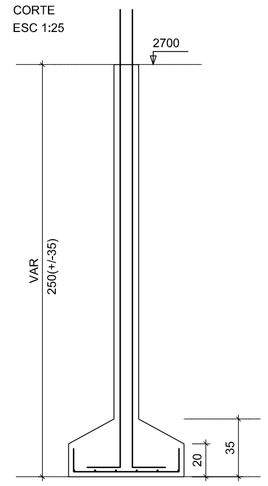
P17



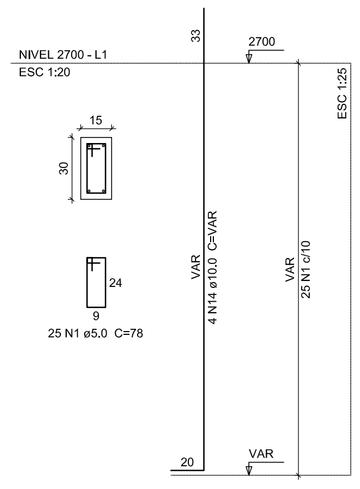
S13=S14=S17=S18



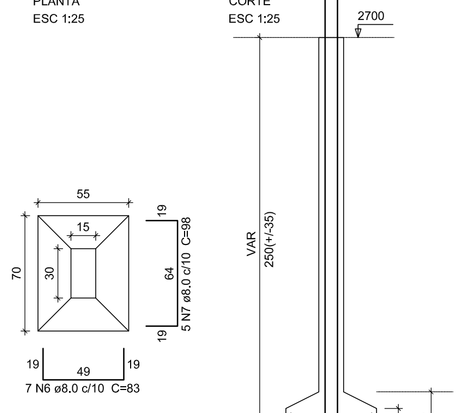
Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³



P15

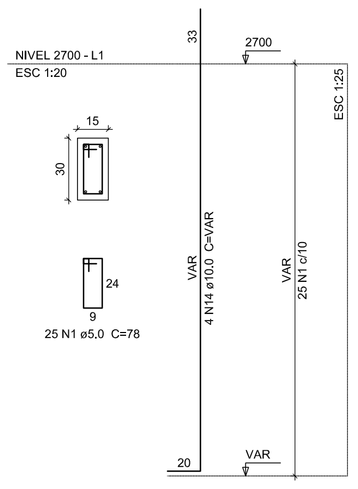


S15

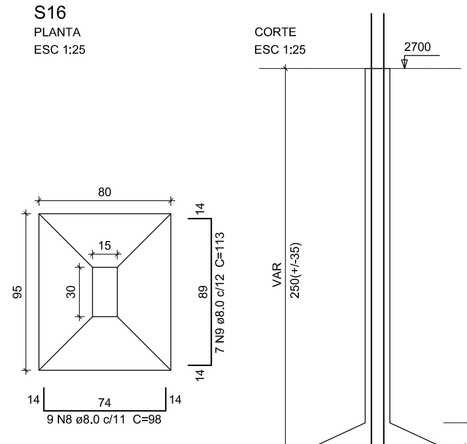


Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³

P16

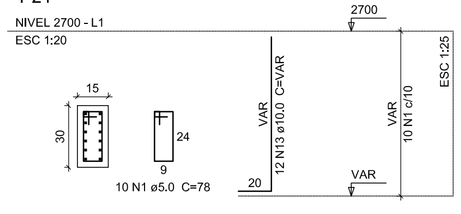


S16

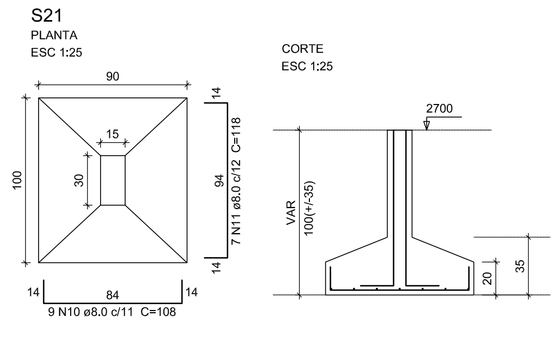


Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³

P21

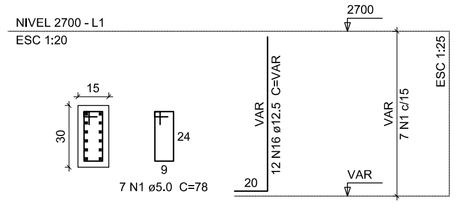


S21

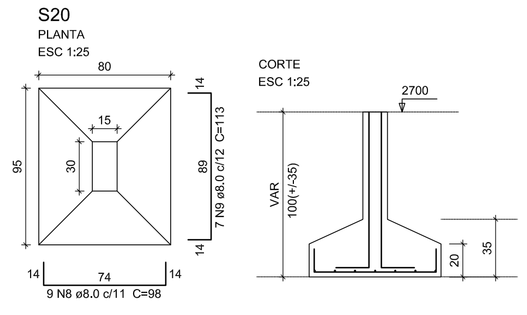


Solo compactado sobre a sapata
peso específico > 1800,00 kgf/m³

P20



S20



Solo compactado sobre a sapata
peso específico > 1800.00 kgf/m³

Relação do aço

2xS4 6xS10 5xS11
S13 S15 S16
S20 S21

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	374	78	29172
CA50	2	8,0	80	88	7040
	3	8,0	60	103	6180
	4	8,0	35	88	3080
	5	8,0	25	103	2575
	6	8,0	21	83	1743
	7	8,0	15	98	1470
	8	8,0	18	98	1764
	9	8,0	14	113	1582
	10	8,0	9	108	972
	11	8,0	7	118	826
	12	10,0	44	VAR	VAR
	13	10,0	20	VAR	VAR
	14	10,0	24	VAR	VAR
	15	10,0	8	67	536
	16	12,5	12	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8,0	272,4	118,2
	10,0	191,7	130
	12,5	13,4	14,1
CA60	5,0	291,8	49,5

PESO TOTAL (kg)	
CA50	262,3
CA60	49,5

Volume de concreto (C-30) = 4,9 m³
Área de forma = 46,75 m²

QUADRO DE REVISÕES

REVISÃO	DESCRIÇÃO	DATA	DESENHO

APROVAÇÕES

PROPRIETÁRIO
COMPANHIA HIDROMINERAL DE PIRATUBA
83.076.315/0001-40

RESPONSÁVEL TÉCNICO
JAIME FERNANDO SCHMIDT COSTA:34903380968
Assinado de forma digital por JAIME FERNANDO SCHMIDT COSTA:34903380968
Dados: 2023.08.22 09:57:13 -03'00'
JAIME F. SCHMIDT COSTA
CREA/SC 31169-5

EQUIPE TÉCNICA DA EMPRESA

FERRARI ENGENHARIA

EMESON FERRARI
Engenheiro Mecânico
CREA/SC: 165014-3

MAURICIO CERUTTI
Arquiteto e Urbanista
CAU: A109041-0

JAIME F. SCHMIDT COSTA
Engenheiro Civil
CREA/SC: 031169-5

RENATO BERGAMO
Engenheiro Eletricista
CREA/SC: 068830-4

PROPRIETÁRIO: COMPANHIA HIDROMINERAL DE PIRATUBA
EDIFICAÇÃO: ESTRUTURA DE FUNDAÇÃO - ESCADA/PASSARELA NIVEL 2700
ENDEREÇO: AV. DEZOITO DE FEVEREIRO, 2455 - PIRATUBA- SC

PROJETO: ESTRUTURA DE CONCRETO ARMADO
ARQUIVO: PALCO
DATA: 23.02.2023
CONTEÚDO: FORMA E ARMADURA SAPATAS
ETAPA: PROJETO EXECUTIVO
ESCALA: INDICADA
FOLHA: E03-21

FERRARI ENGENHARIA | CREA nº 165014-3 | CNPJ 35.949.131/0001-62
Rua Getulio Vargas, 234 - SALA 01 - Centro - Concórdia | Fone: (49) 99997-3641 | e-mail: projetos@engenhariaferrari.com.br

Formato A1 (841 x 594