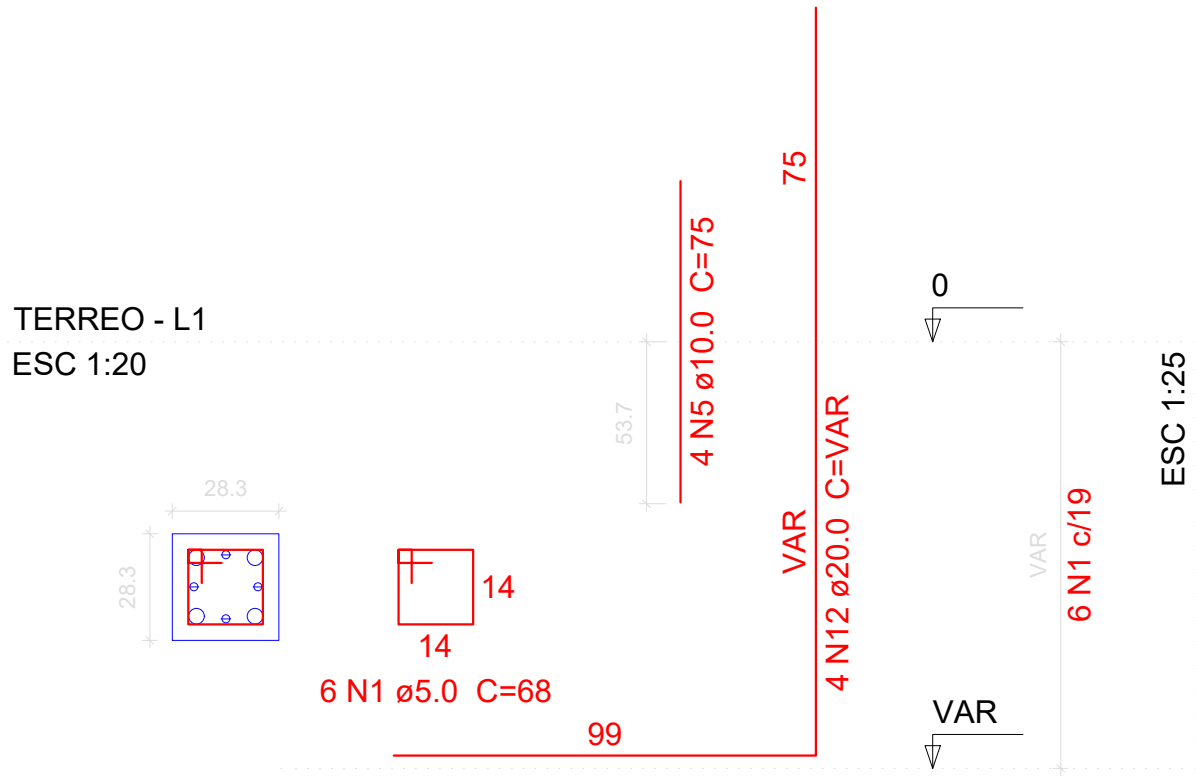
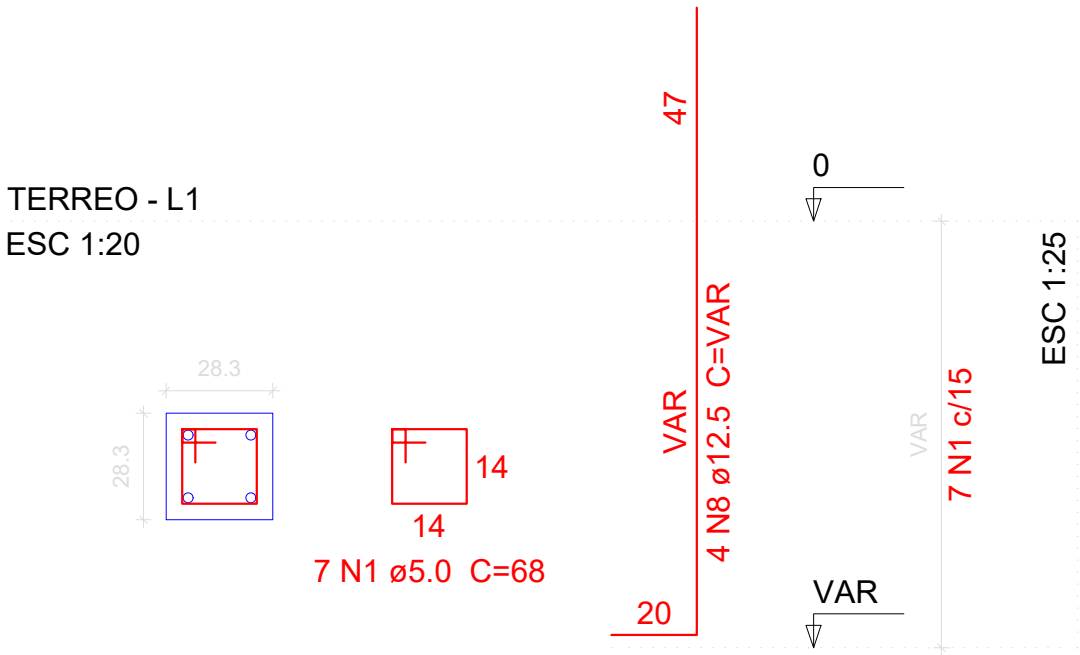


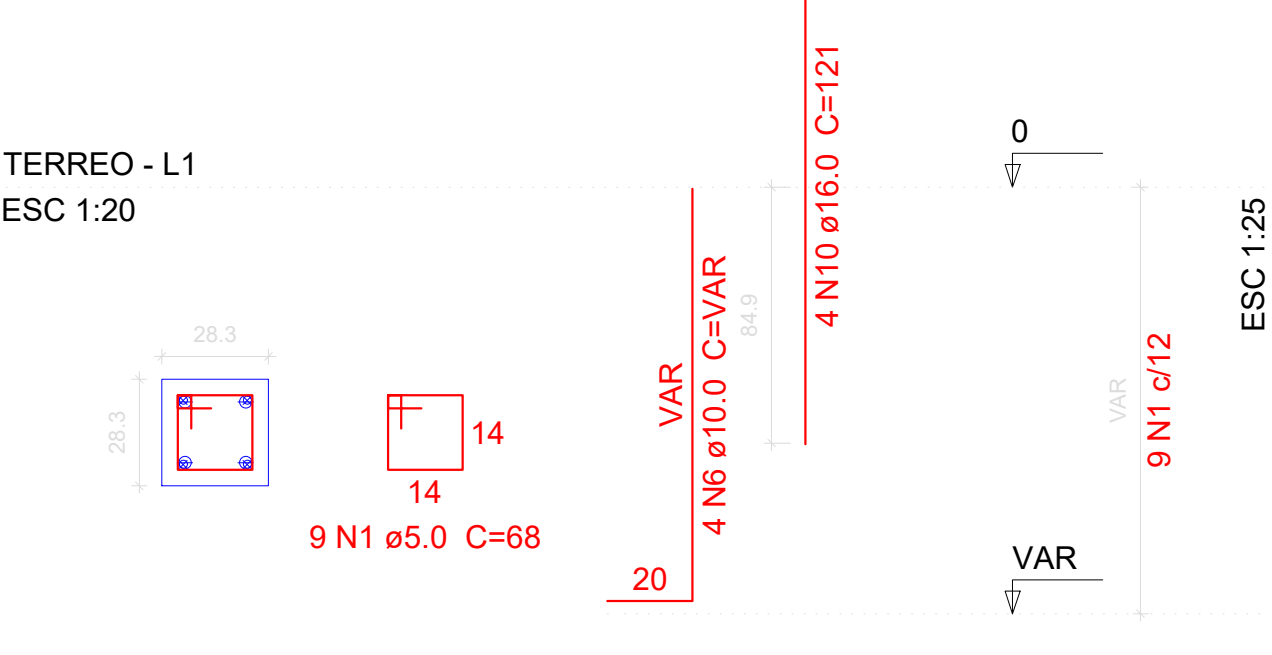
P1



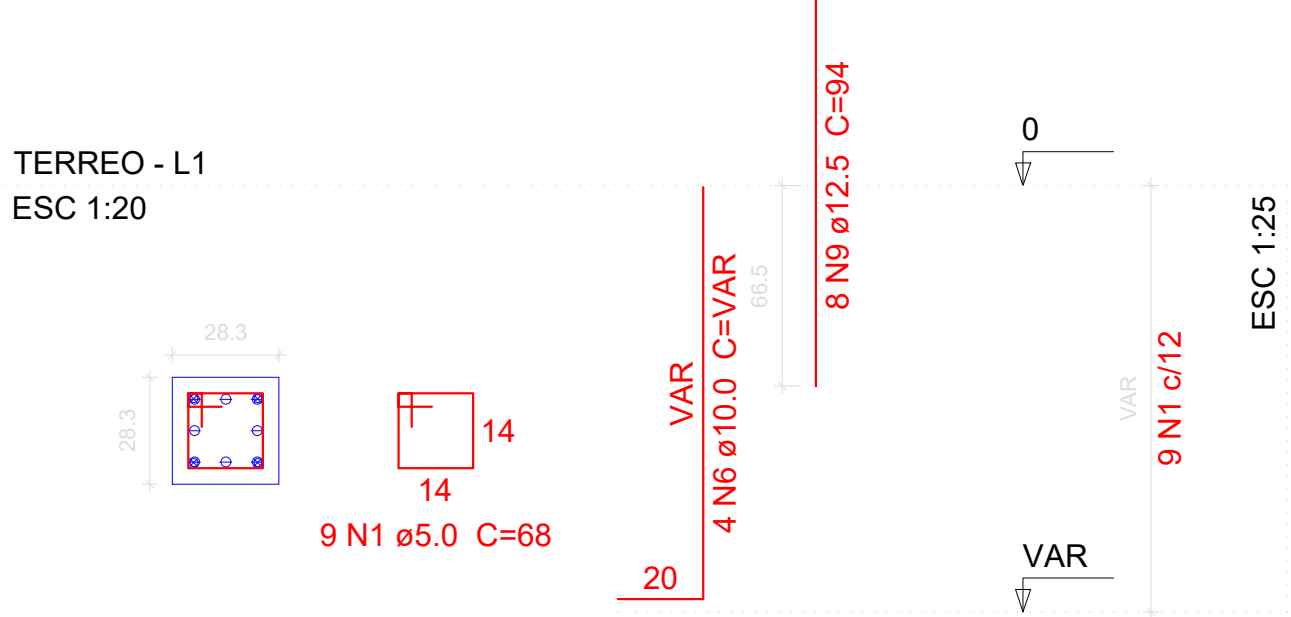
P2=P5=P7=P11



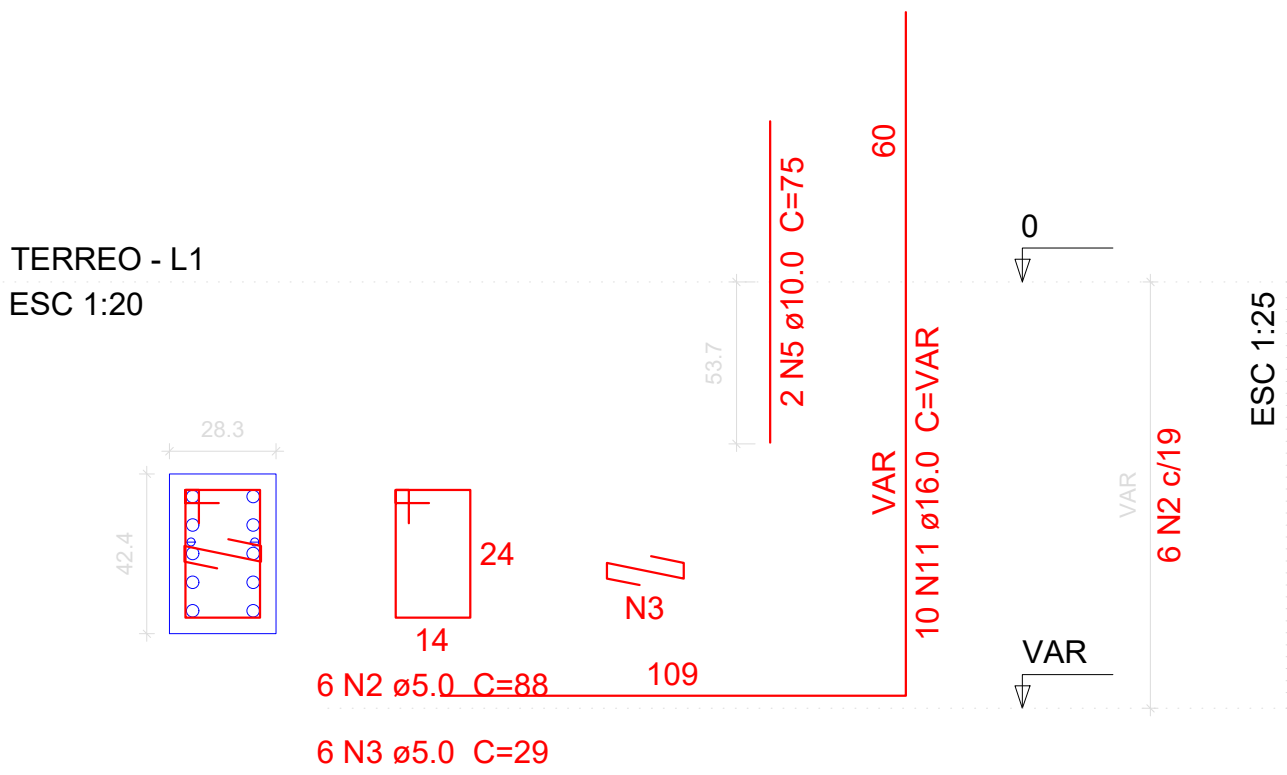
P3=P12



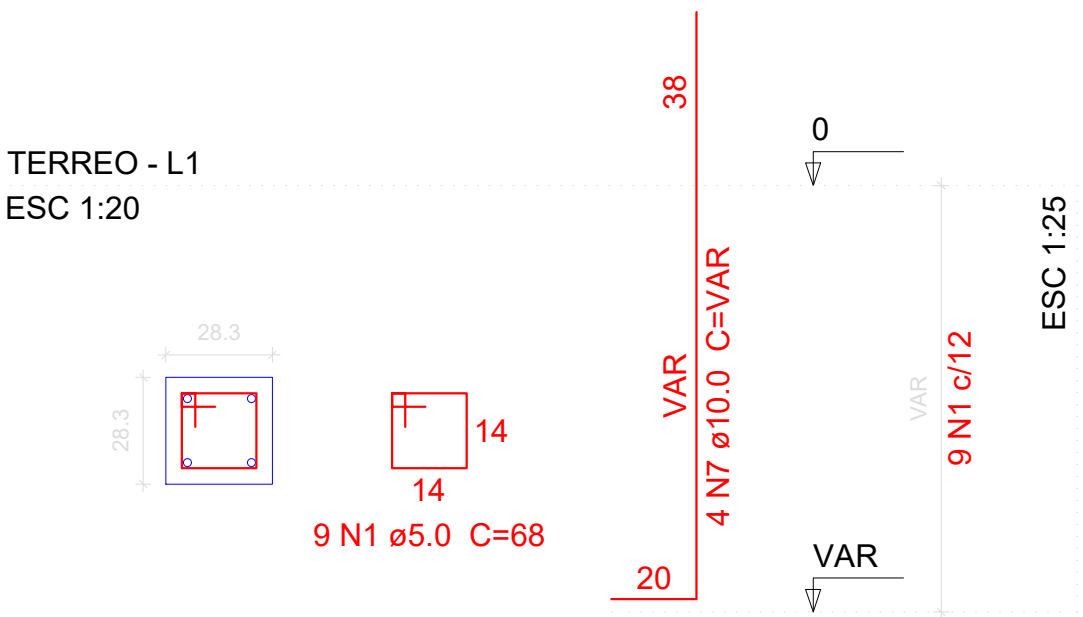
P4



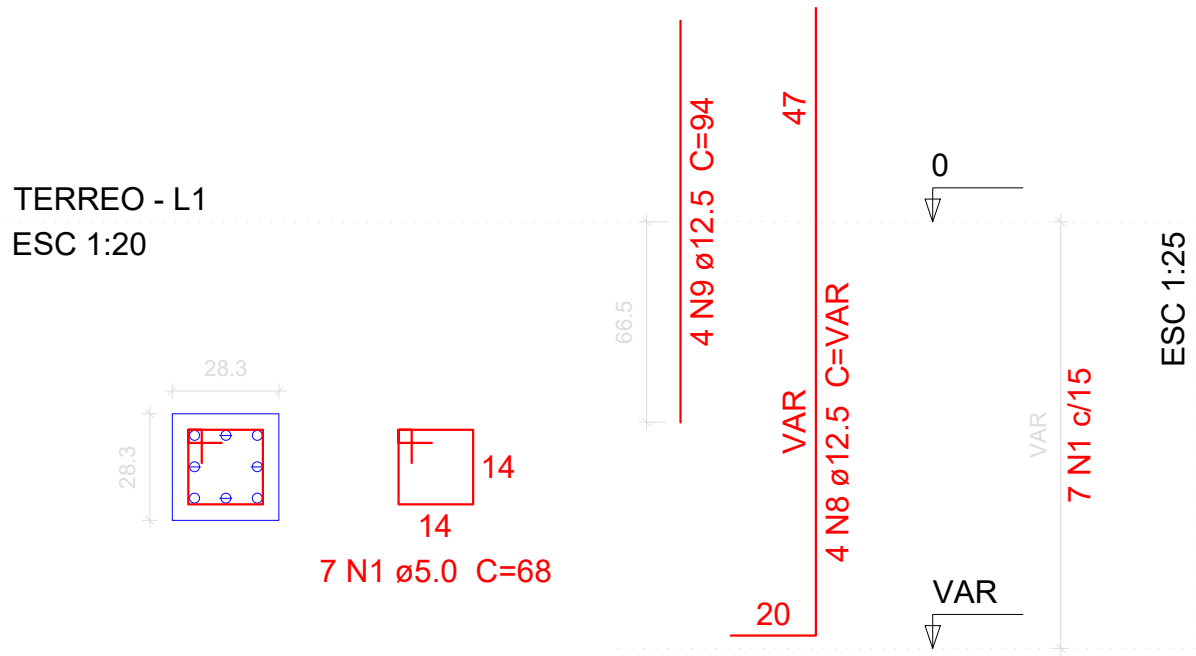
P6



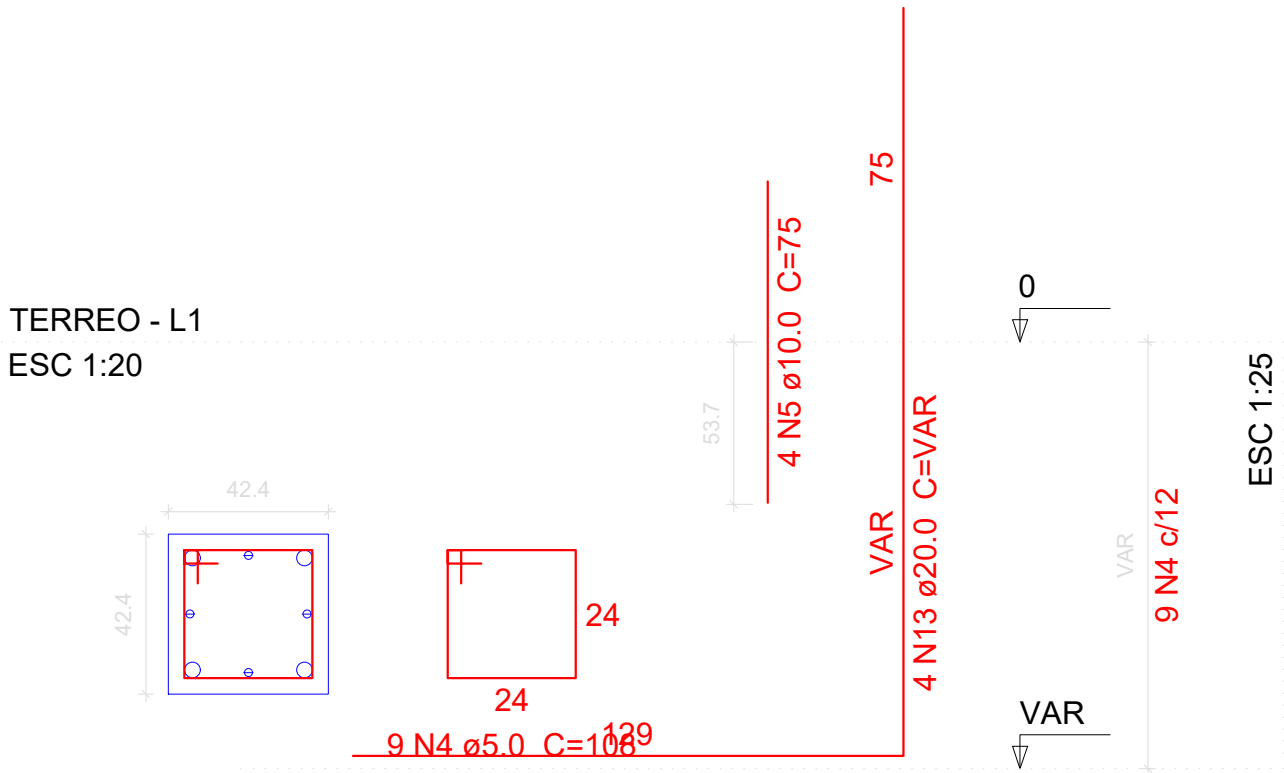
P8



P9



P10



Relação do aço

P1		4xP2		2xP3	
P4		P6		P8	
P9		P10			
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	77	68	5236
	2	5.0	6	88	528
	3	5.0	6	29	174
CA50	4	5.0	9	108	972
	5	10.0	10	75	750
	6	10.0	12	VAR	VAR
	7	10.0	4	VAR	VAR
	8	12.5	20	VAR	VAR
	9	12.5	12	94	1128
	10	16.0	8	121	968
	11	16.0	10	VAR	VAR
	12	20.0	4	VAR	VAR
	13	20.0	4	VAR	VAR

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	27.6	18.7
	12.5	44.1	46.7
	16.0	36.2	62.8
	20.0	22.7	61.4
CA60	5.0	69.1	11.7
PESO TOTAL			
CA50	189.6		
CA60	11.7		

Vol. de concreto total (C-25) = 0.55 m³
Área de forma total = 10.2 m²

Título: Pilares Fundação		Folha: 01
Objetivo:		
Localidade: Rua 24 de maio		
Proprietários: Município de Monte Belo do Sul		
Imóvel: EMEI Caminhos do Aprender		
Escala: Indicada	Data: Agosto/2021	Estado: RS
Município de Monte Belo do Sul		Eng Civil PAULO ROBERTO B PEREIRA CREA RS202395