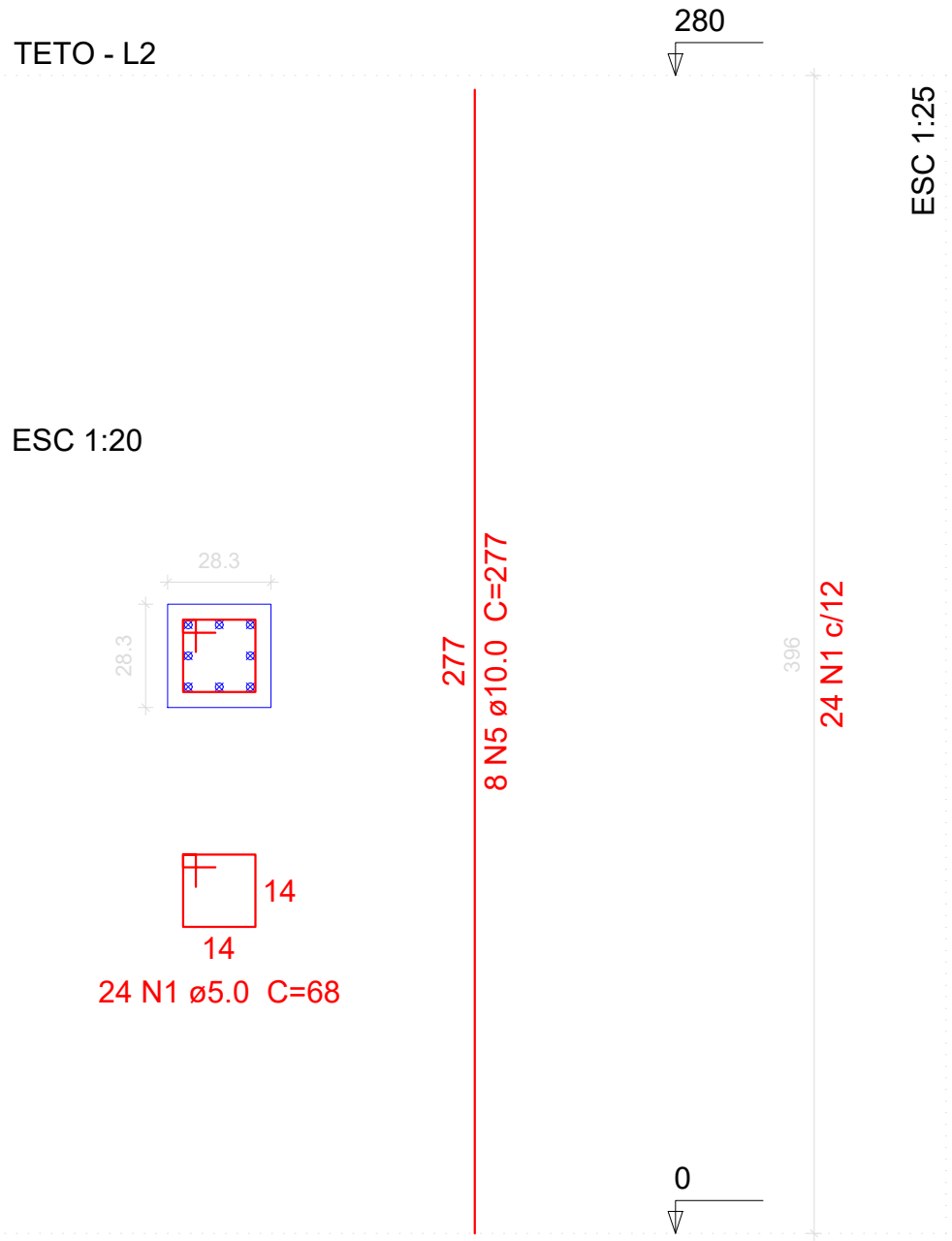
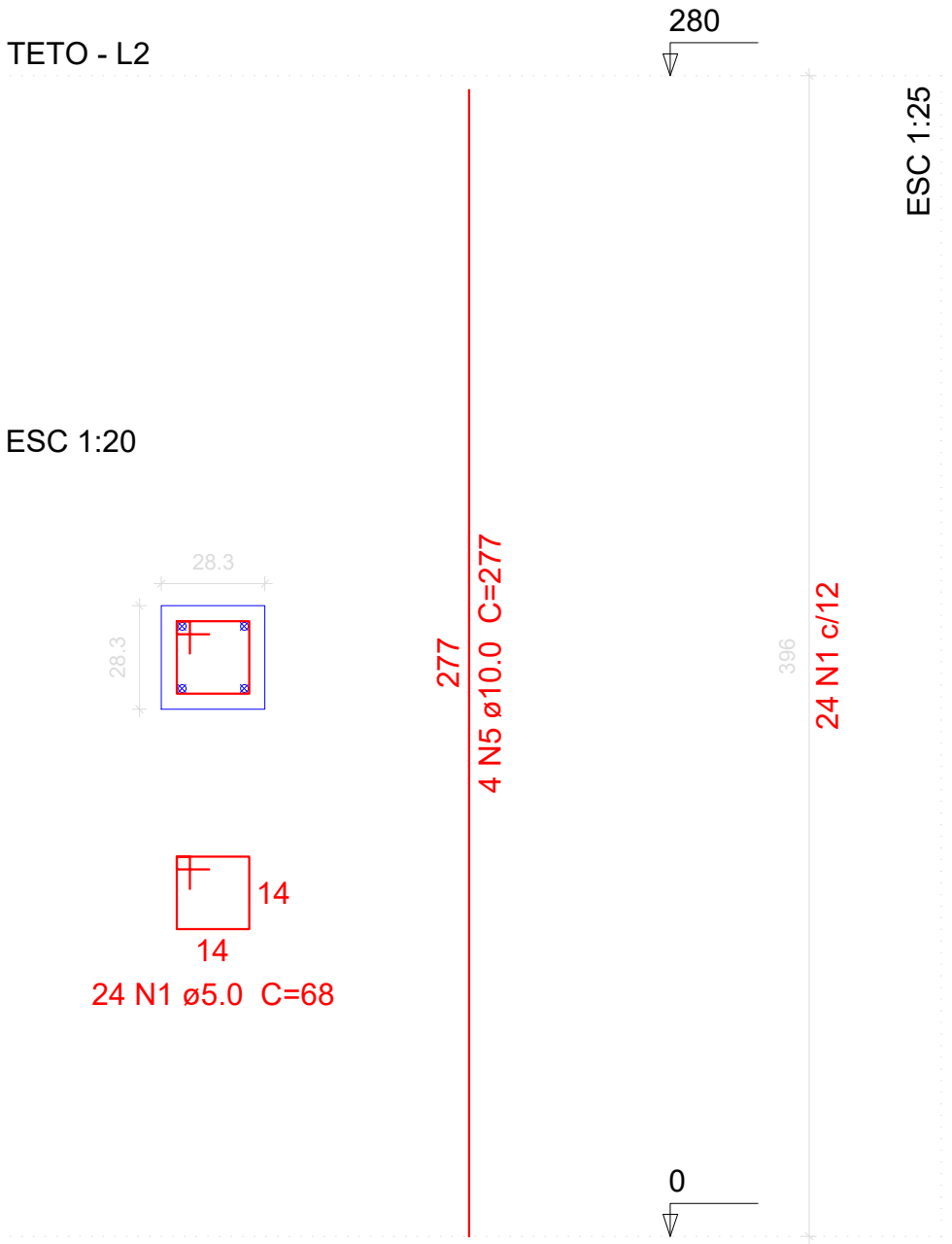


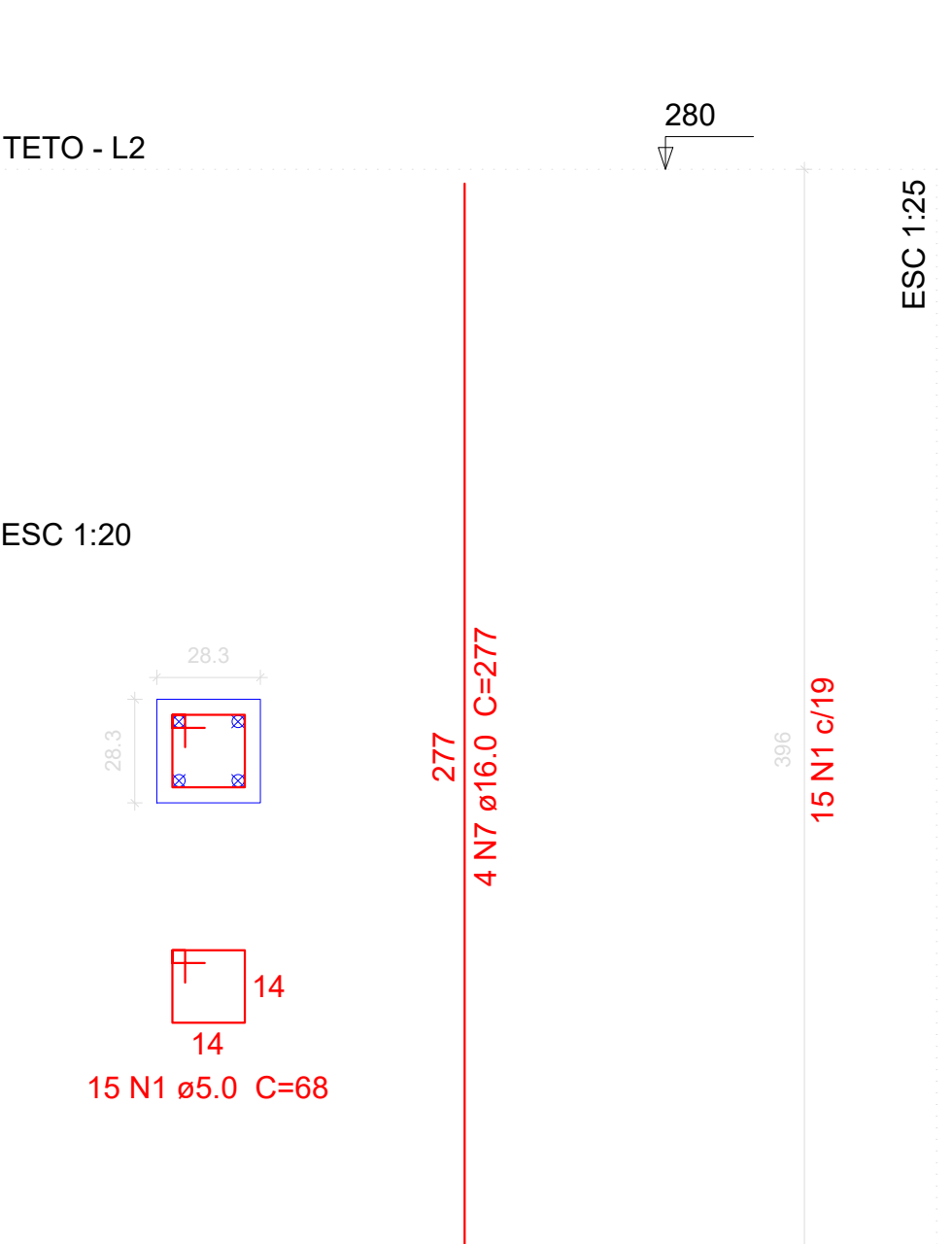
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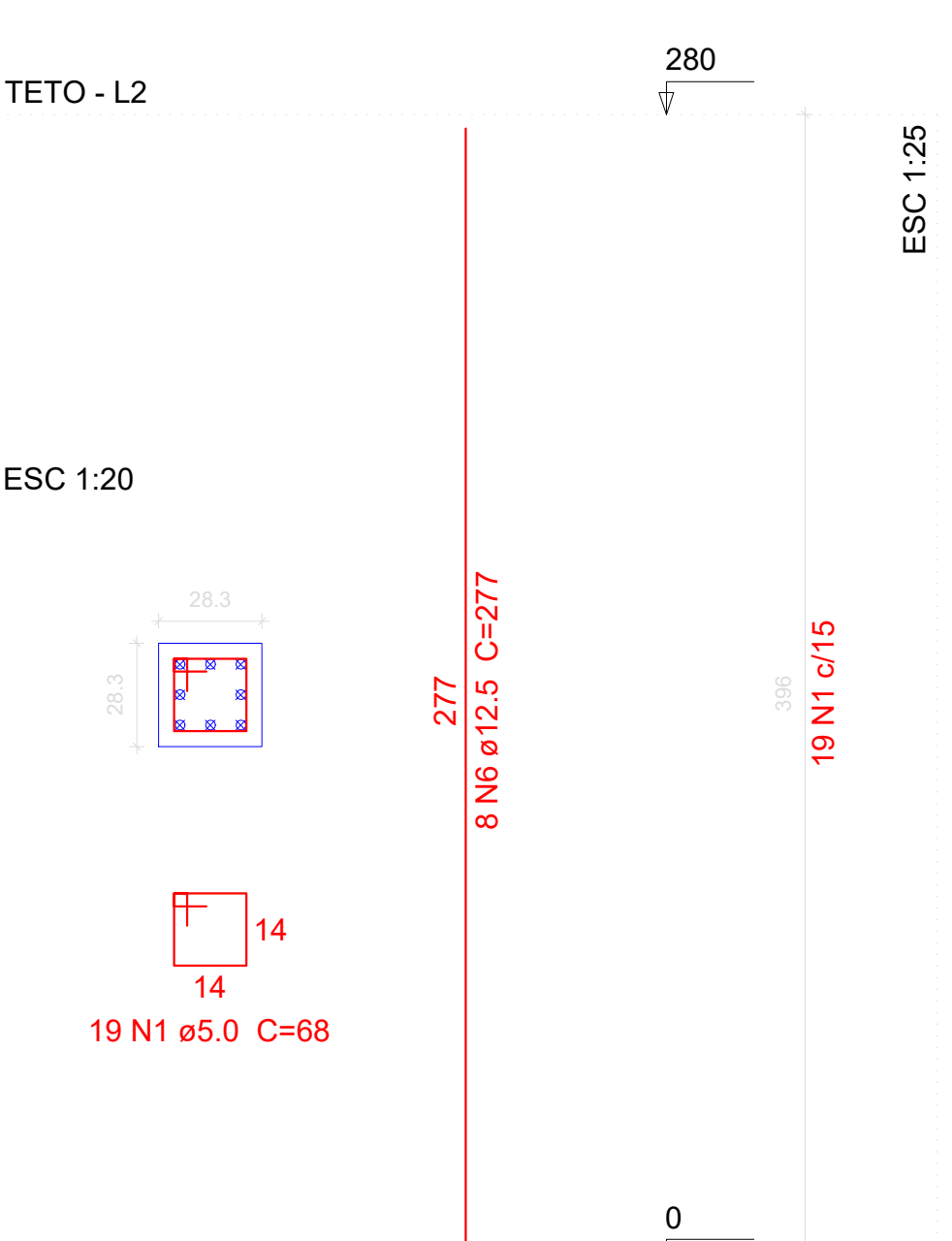
P2=P5=P8=P11



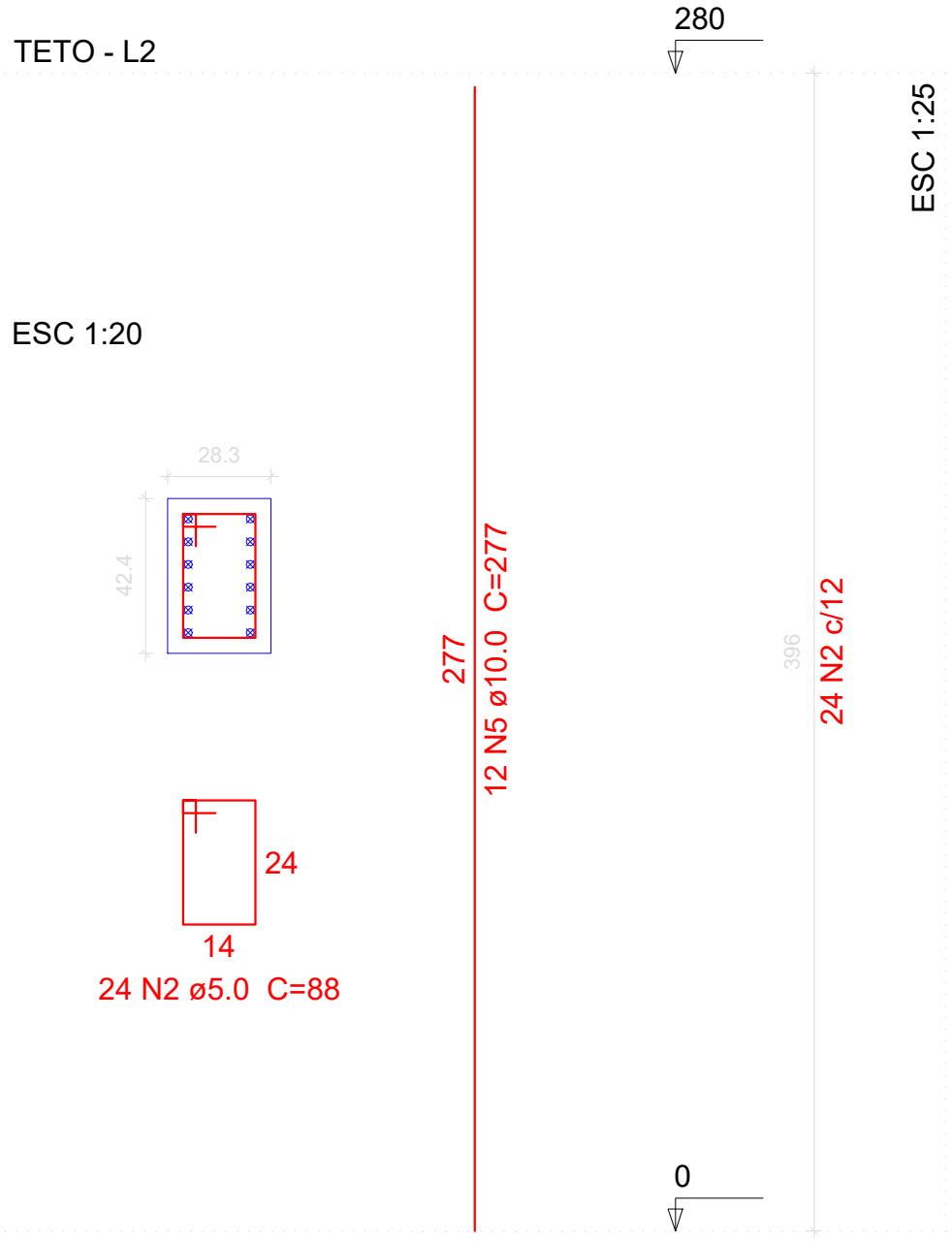
P3



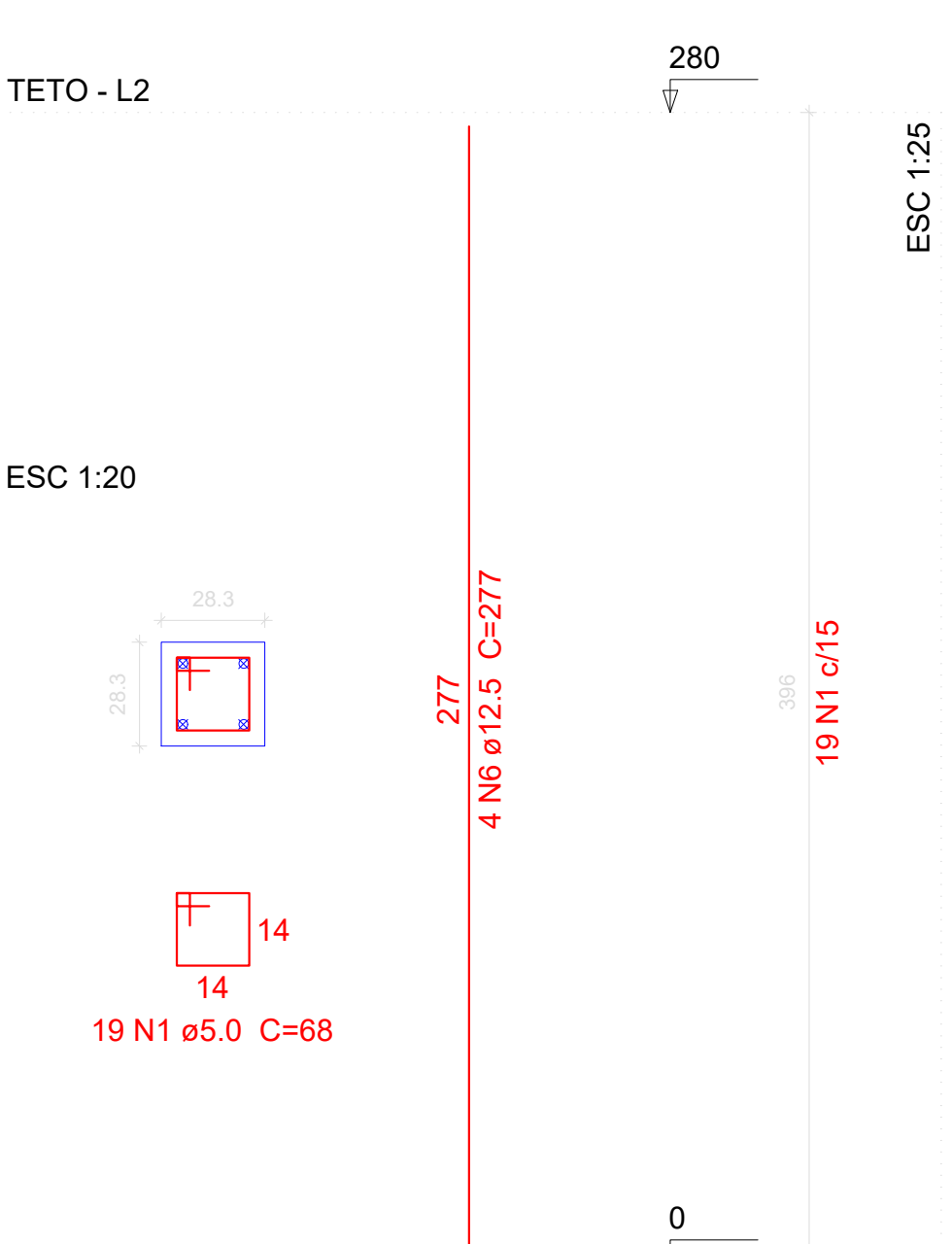
P4=P9



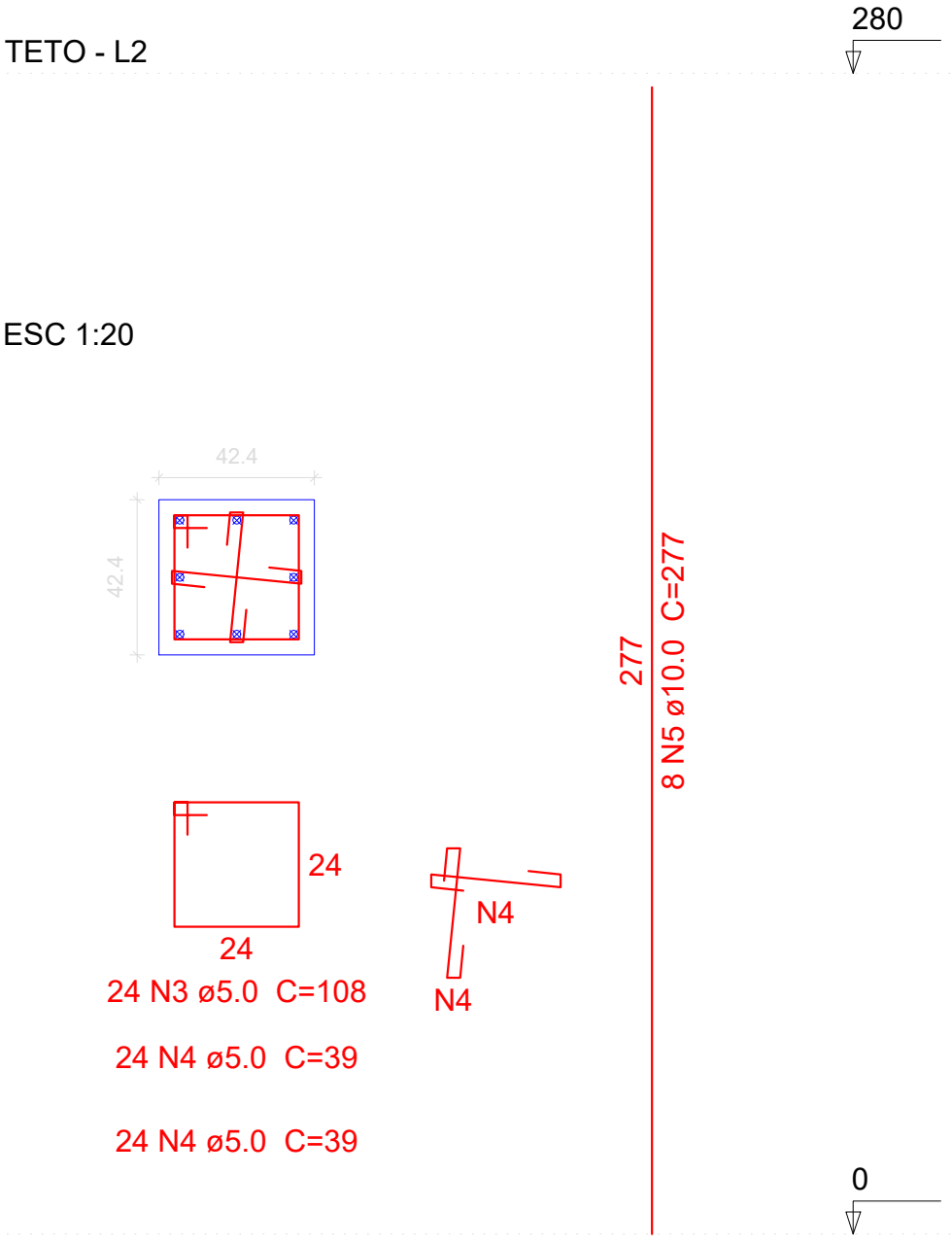
P6



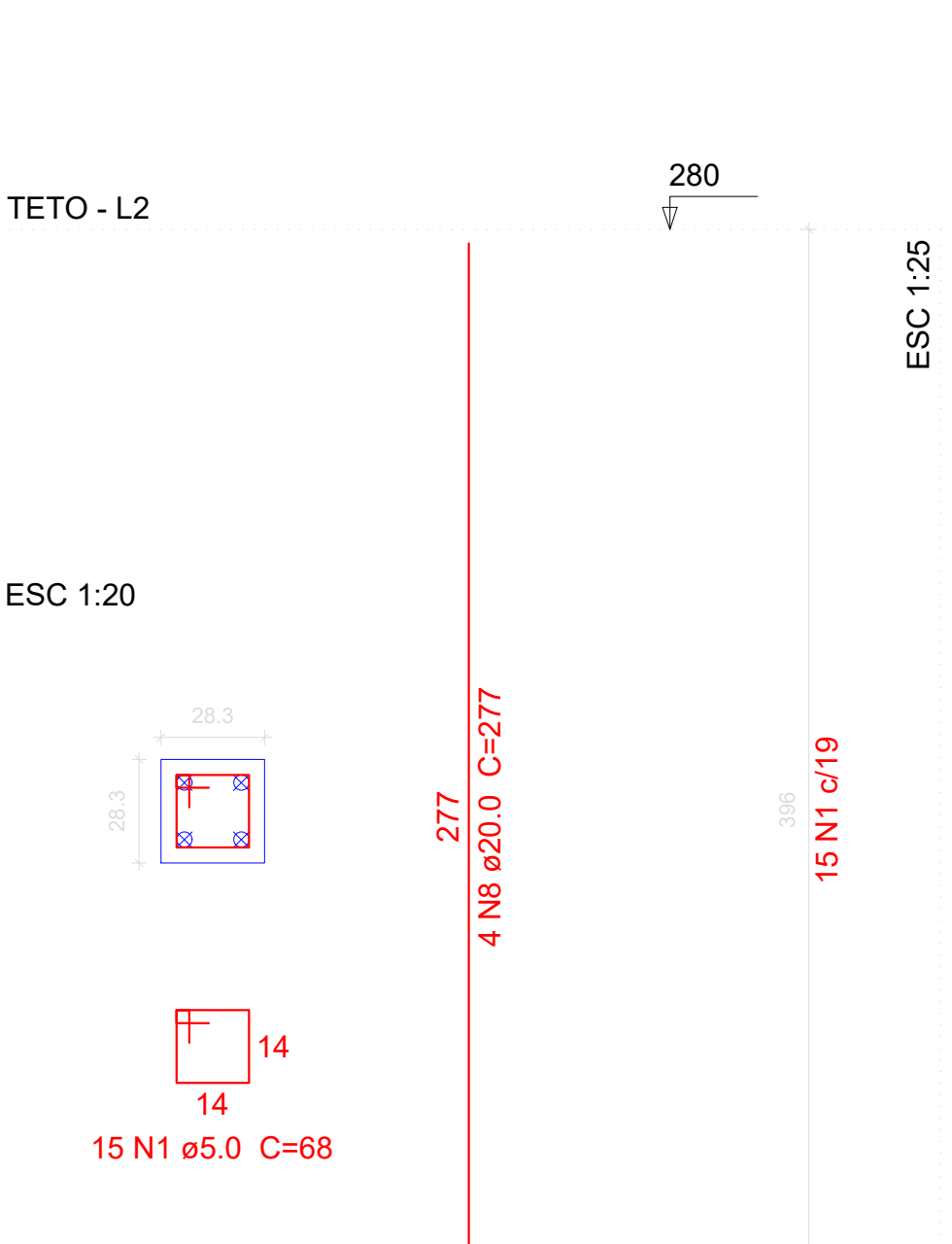
P7



P10



P12



Relação do aço

P1	4xP2			P3	
2xP4	P6			P7	
P10	P12				
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	207	68	14076
	2	5.0	24	88	2112
	3	5.0	24	108	2592
CA50	4	5.0	48	39	1872
	5	10.0	44	277	12188
	6	12.5	20	277	5540
	7	16.0	4	277	1108
	8	20.0	4	277	1108

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	121.9	82.7
	12.5	55.4	58.7
	16.0	11.1	19.2
	20.0	11.1	30.1
CA60	5.0	206.6	35
PESO TOTAL			
CA50	190.7		
CA60	35		

Vol. de concreto total (C-25) = 1.54 m³
Área de forma total = 28.56 m²

Título: Pilares Terreo		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