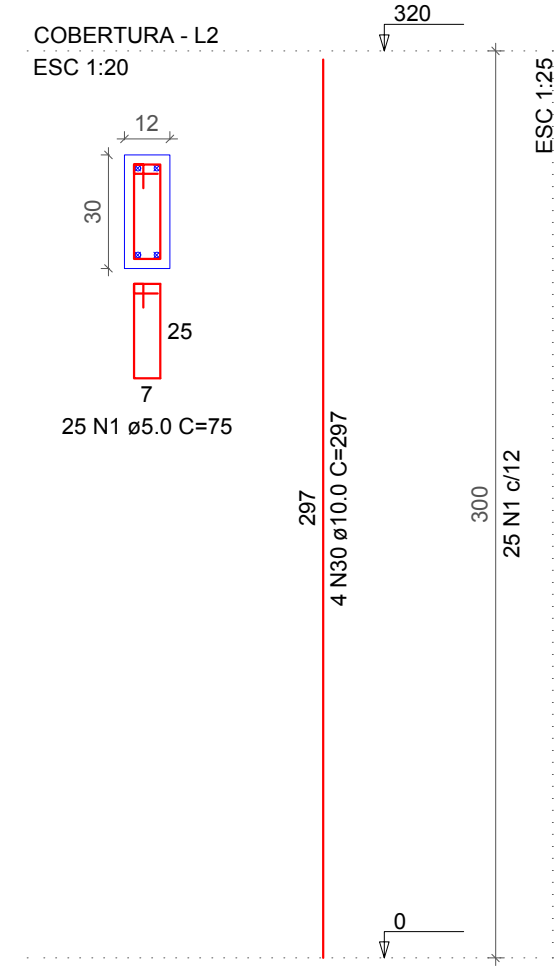
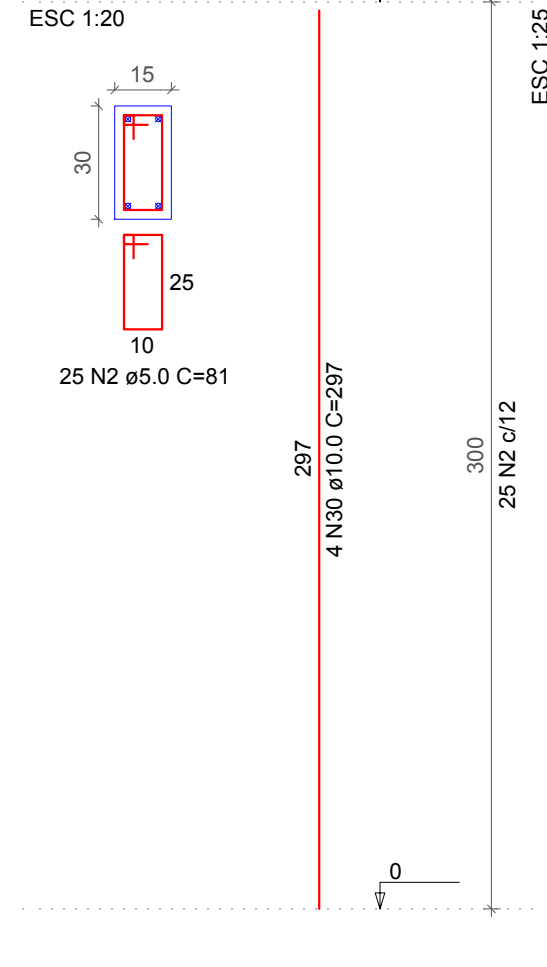


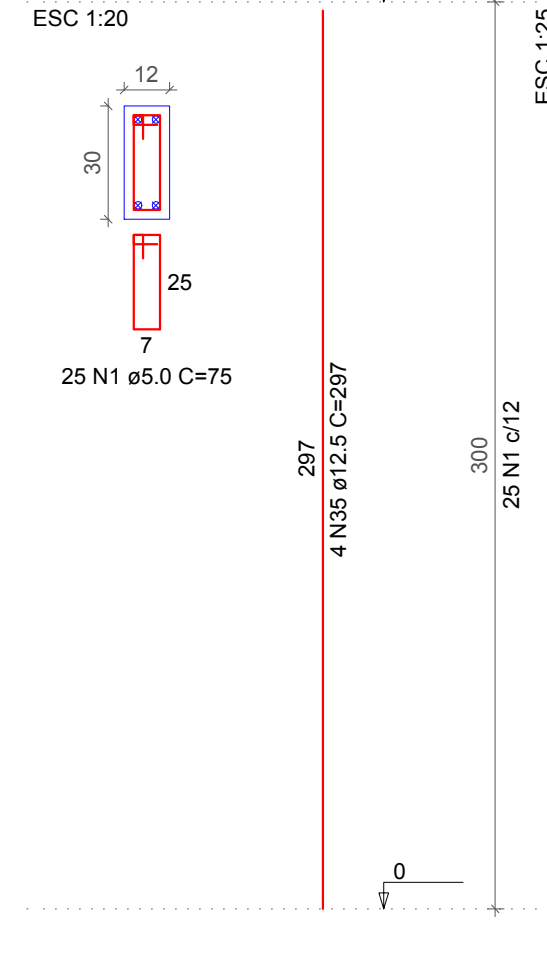
P1=P2=P3=P4=P5=P6=P7=P8=  
=P12=P13=P15=P16



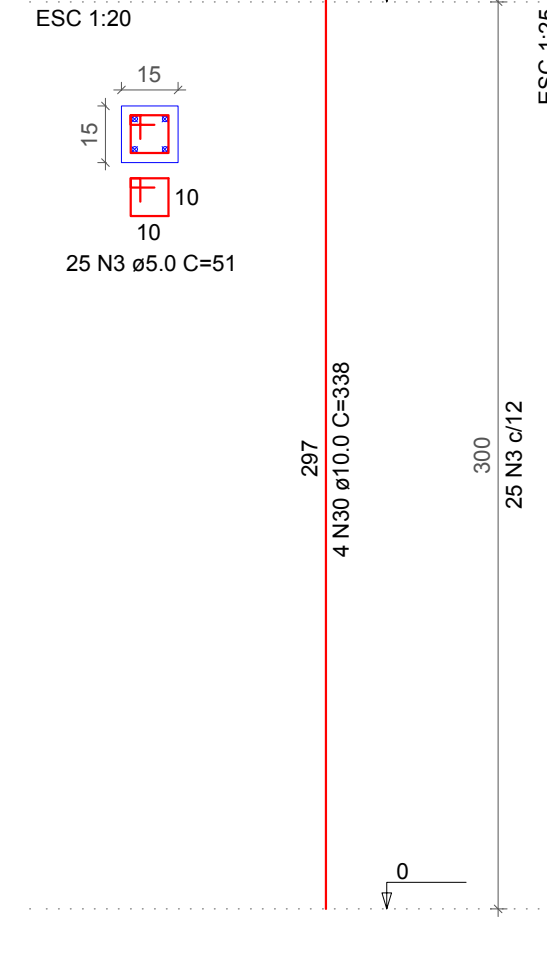
P9=P11



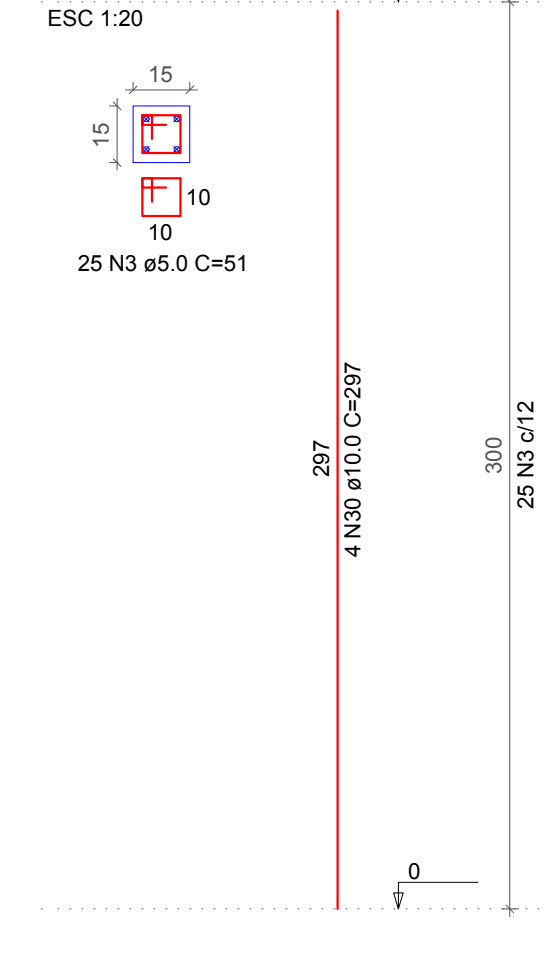
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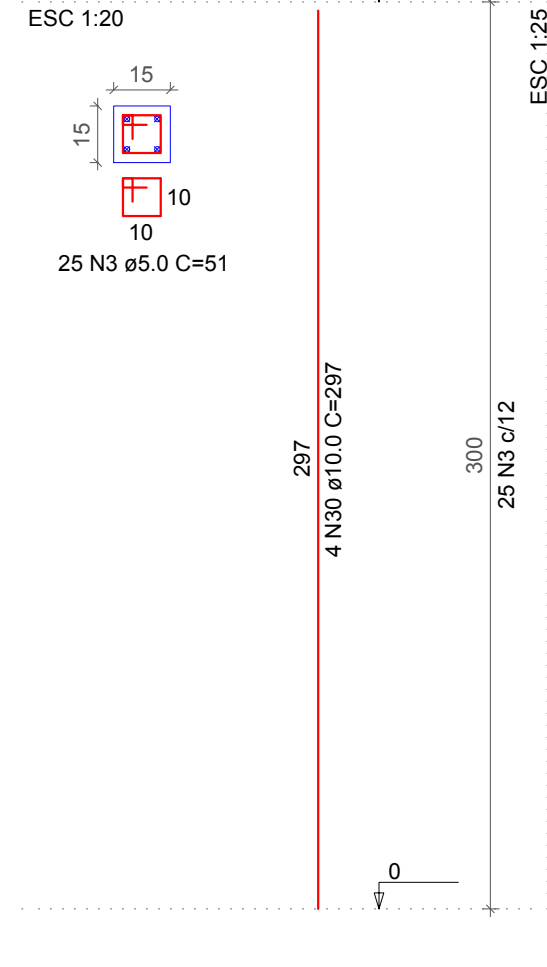
P17



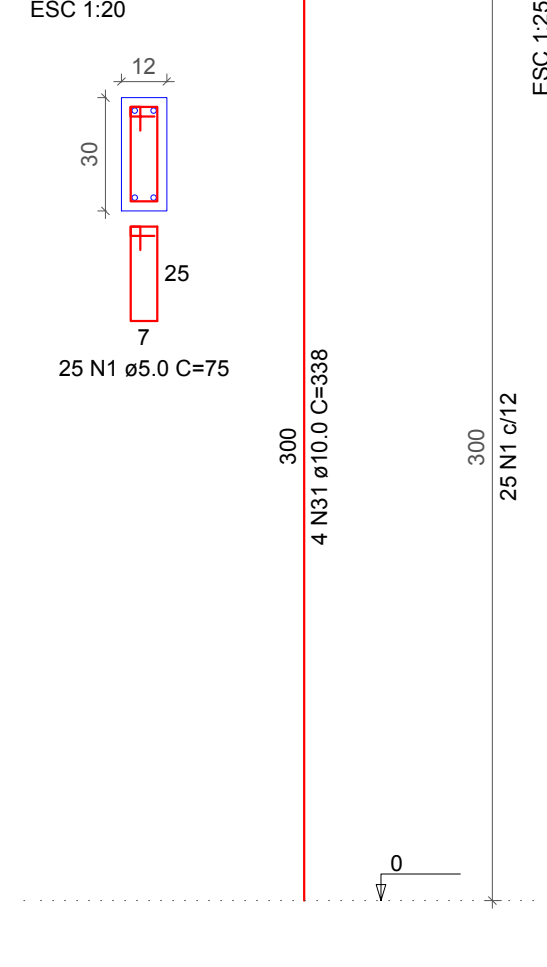
P18



P19



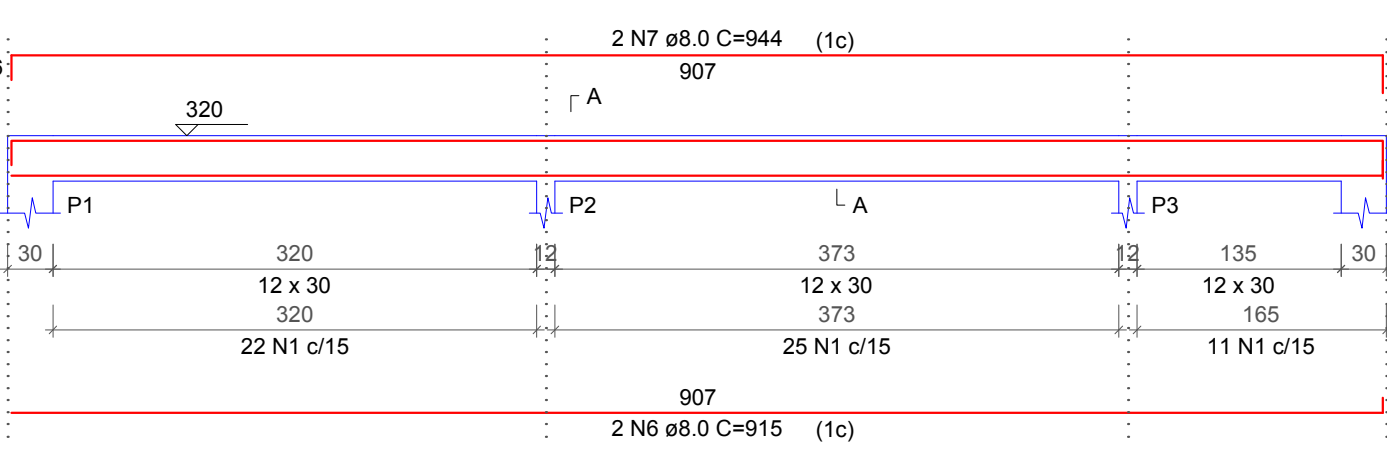
P20=P21



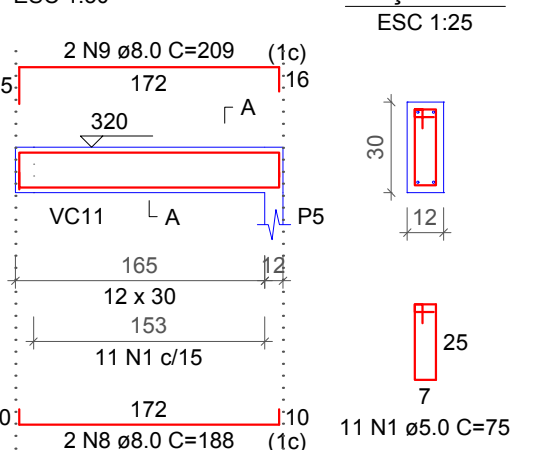
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
12xP1-L2	1	5.0	866	75	64950
P19-L2	2	5.0	50	81	4050
VC2-L2	3	5.0	25	61	1525
VC5-L2	4	5.0	2	222	444
VC8-L2	5	6.3	4	104	416
VC12-L1	6	8.0	4	915	3660
VF13-L1	7	8.0	2	944	1888
	8	8.0	186	376	69816
	9	8.0	209	418	87482
	10	8.0	750	1500	112500
	12	8.0	353	706	249018
	13	8.0	365	730	266550
	14	8.0	58	76	4408
	15	8.0	935	1870	1747650
	16	8.0	1033	2086	2155458
	17	8.0	1	140	140
	18	8.0	2	1071	2142
	19	8.0	761	1522	1153542
	20	8.0	849	1398	1183842
	21	8.0	1198	2396	2870384
	22	8.0	476	952	453152
	23	8.0	451	902	406802
	24	8.0	400	800	320000
	25	8.0	445	890	396050
	26	8.0	451	902	406802
	27	8.0	238	476	113264
	28	8.0	388	776	302848
	29	8.0	759	1518	1148142
	30	10.0	62	297	18414
	31	10.0	8	338	2704
	32	10.0	170	340	57800
	33	10.0	1199	2398	2870384
	34	10.0	492	984	484800
	35	12.5	4	297	1188

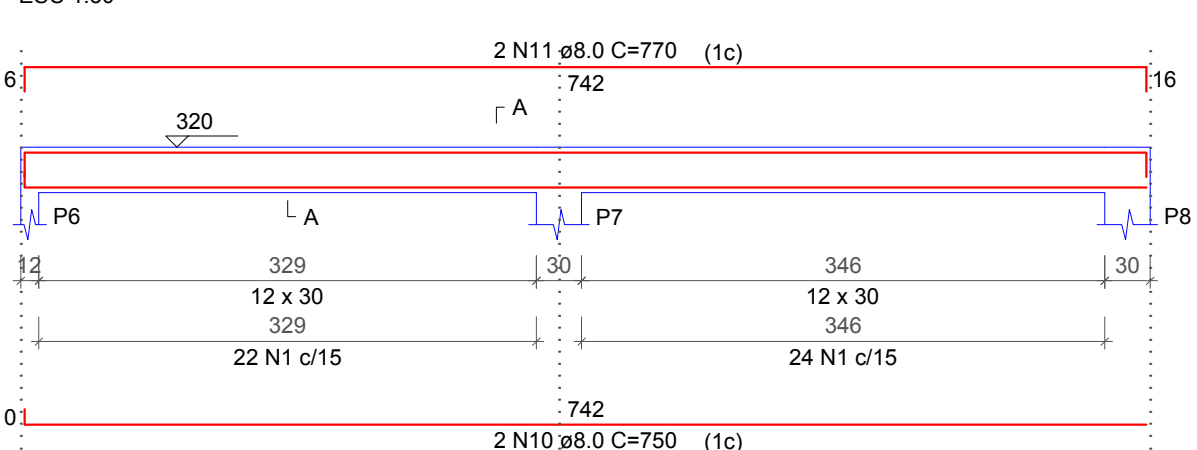
VC1



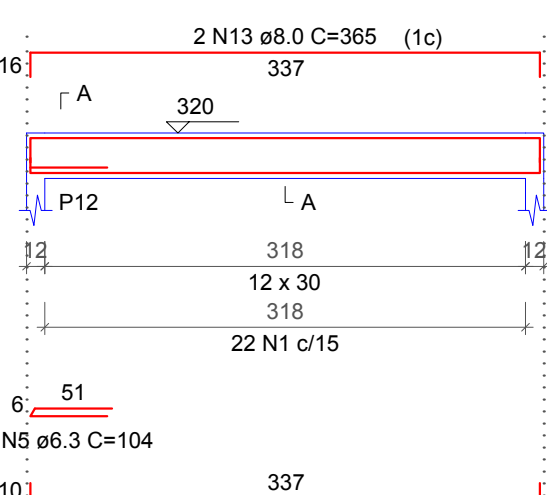
VC2



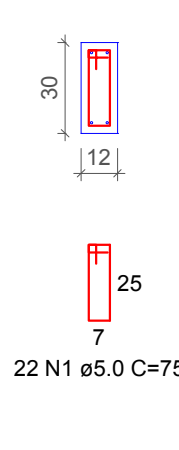
VC3



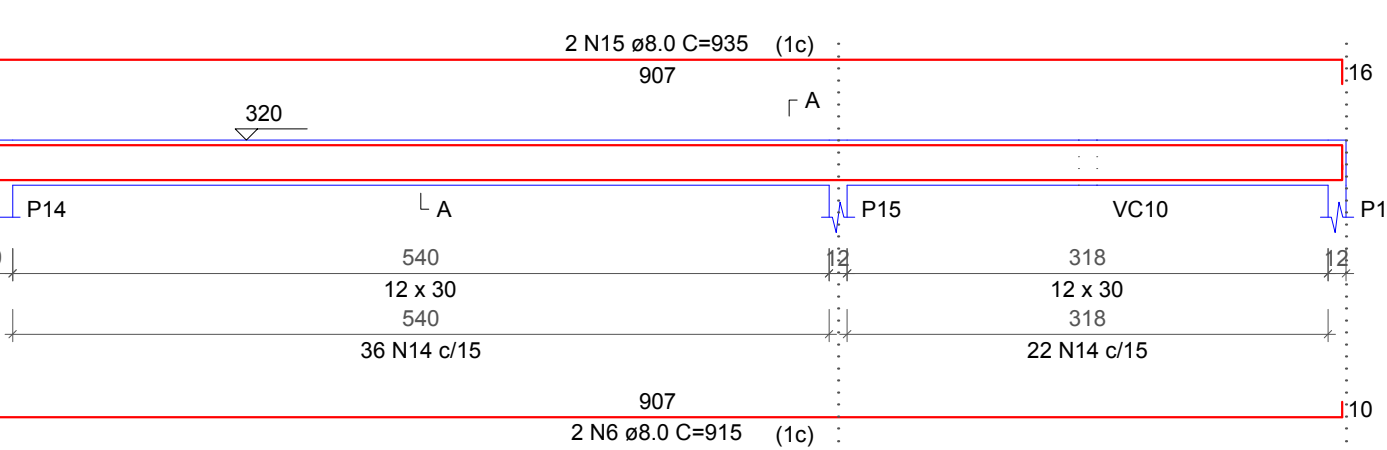
VC4



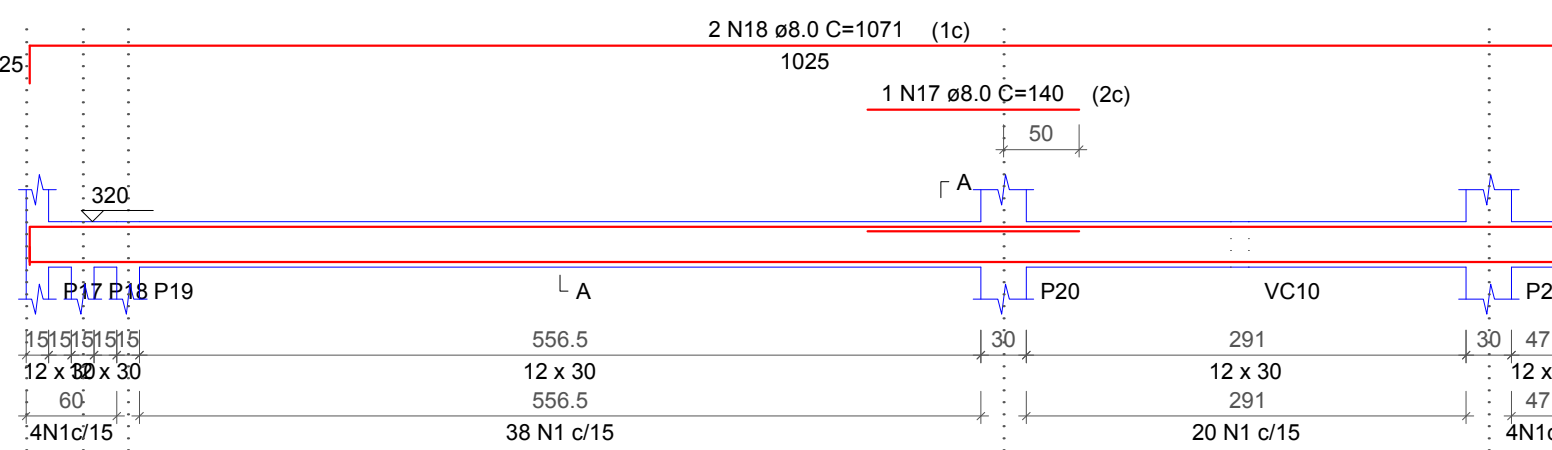
SEÇÃO A-A



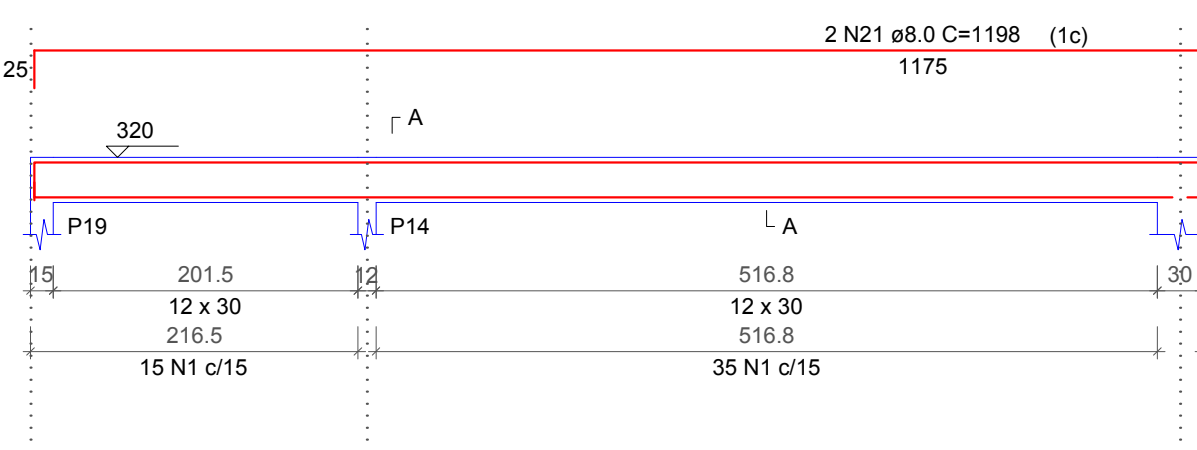
VC5



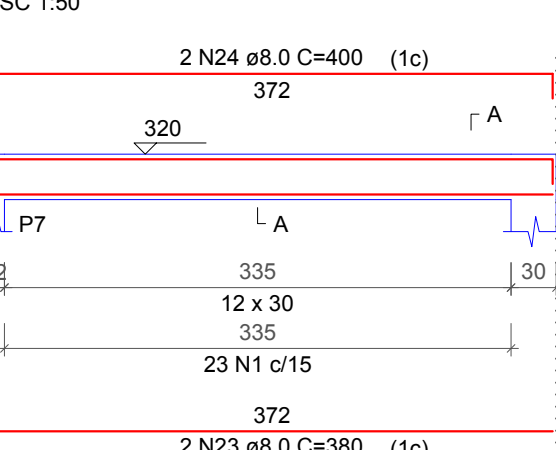
VC6



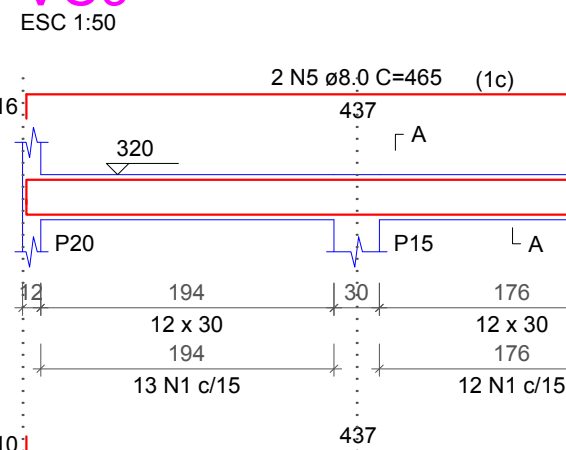
VC7



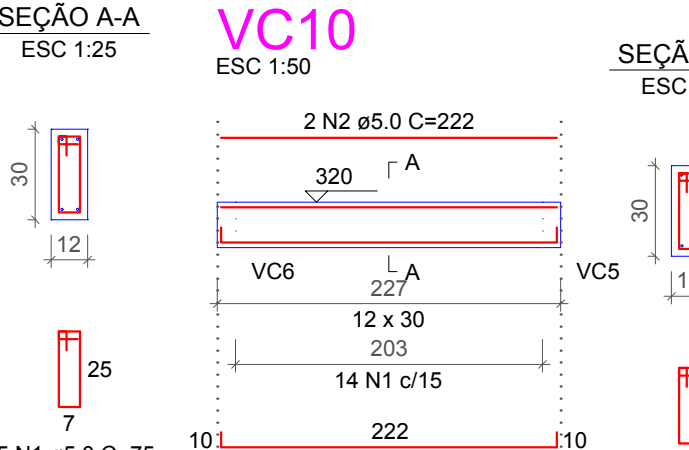
VC8



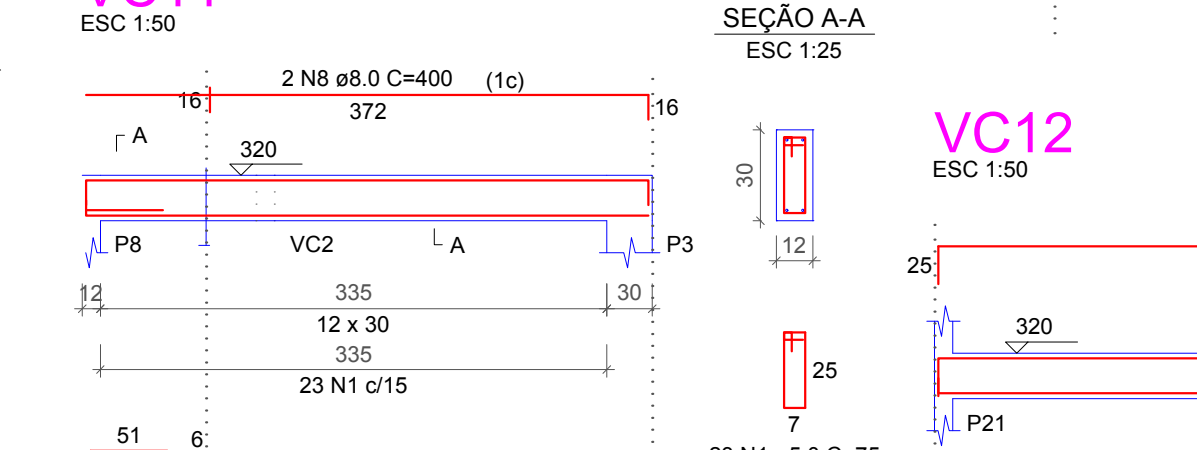
VC9



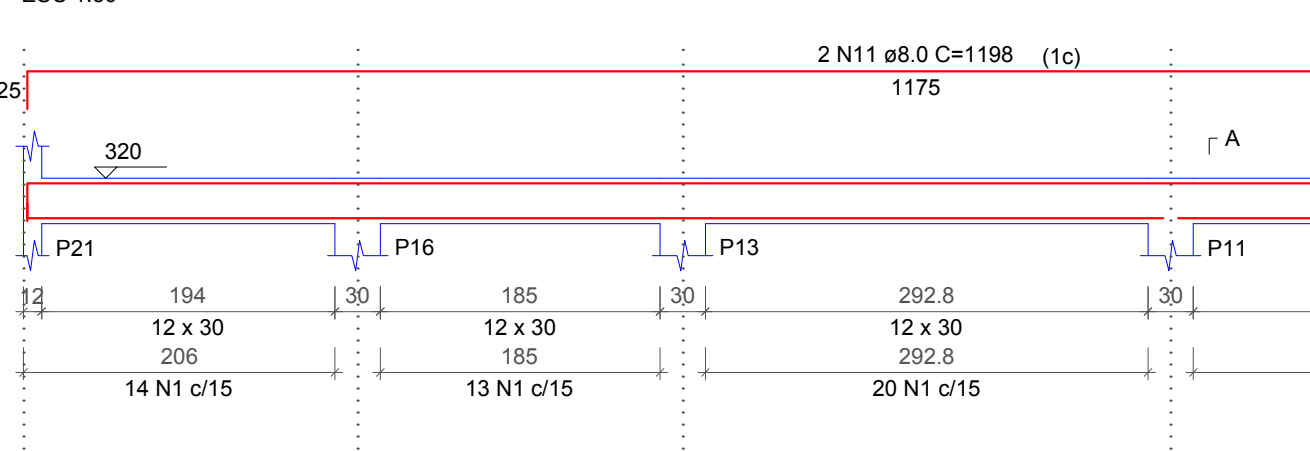
VC10



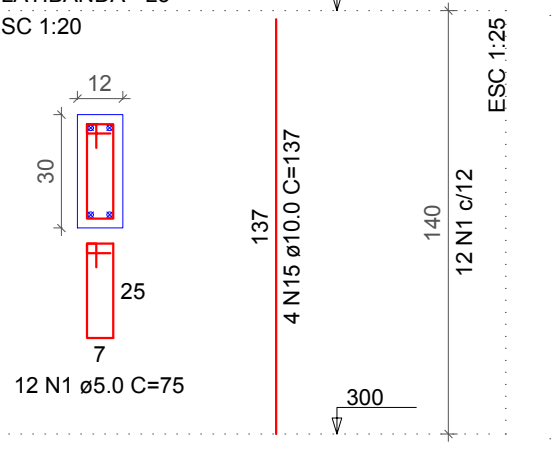
VC11



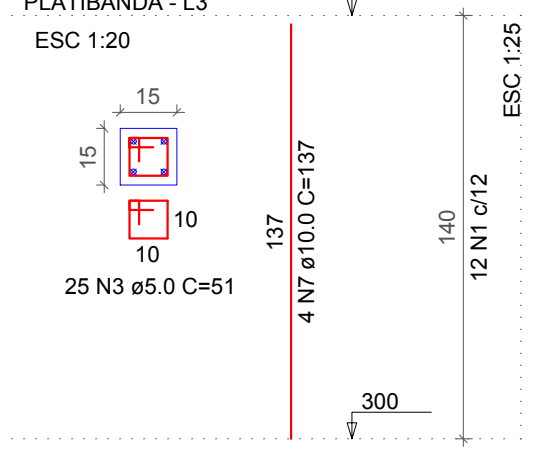
VC12



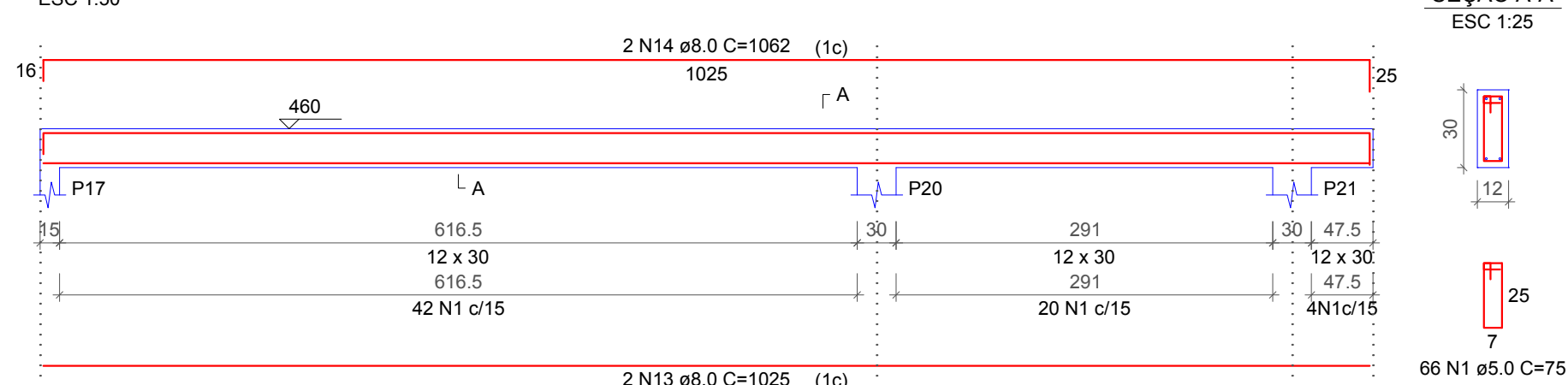
P20=P21



P17



VP1



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP20-L3	1	5.0	253	75	18975
VC11-L2	2	5.0	2	222	444
VC10-L2	3	6.3	2	104	208
VP1-L3	4	8.0	2	465	930
	5	8.0	2	238	476
	6	8.0	360	760	273600
	7	8.0	400	800	320000
	8	8.0	759	1518	1148142
	9	8.0	849	1698	1440522
	10	8.0	1198	2396	2870384
	11	8.0	474	948	449112
	12	8.0	1025	2050	2110750
	13	8.0	1062	2124	2269608
	14	8.0	137	1096	149152

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	2.1	0.6
CA50	8.0	145.9	63.3
CA60	5.0	194.2	32.9
PESO TOTAL (kg)			
CA50	71.3		
CA60	32.9		

Volume de concreto (C-25) = 1.43 m³  
Área de forma = 28.87 m²

Prefeitura Municipal de Francisco Beltrão

CENTRO CULTURAL SECÇÃO PROGRESSO

LOTE: 30 GLEBA 48 - FB

MUNICÍPIO / CIDADE: FRANCISCO BELTRÃO PARANÁ

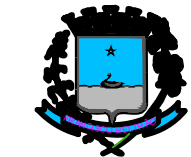
REFERÊNCIA: PILARES DO PAVIMENTO COBERTURA

VIGAS DO PAVIMENTO COBERTURA

PILARES DO PAVIMENTO PLATIBANDA

VIGAS DO PAVIMENTO PLATIBANDA

RESPONSÁVEL TÉCNICO / AUTOR DO PROJETO: ANDRESSA THÁIS NESI - CREA 171.433-D-PR



ÁREA: 129,01 m²

PROJETO TIPO: -

EST

PRANCHA Nº: 04

DESENHO: ANDRESSA T. NESI

ESCALA: INDICADA

REVISÃO:

04