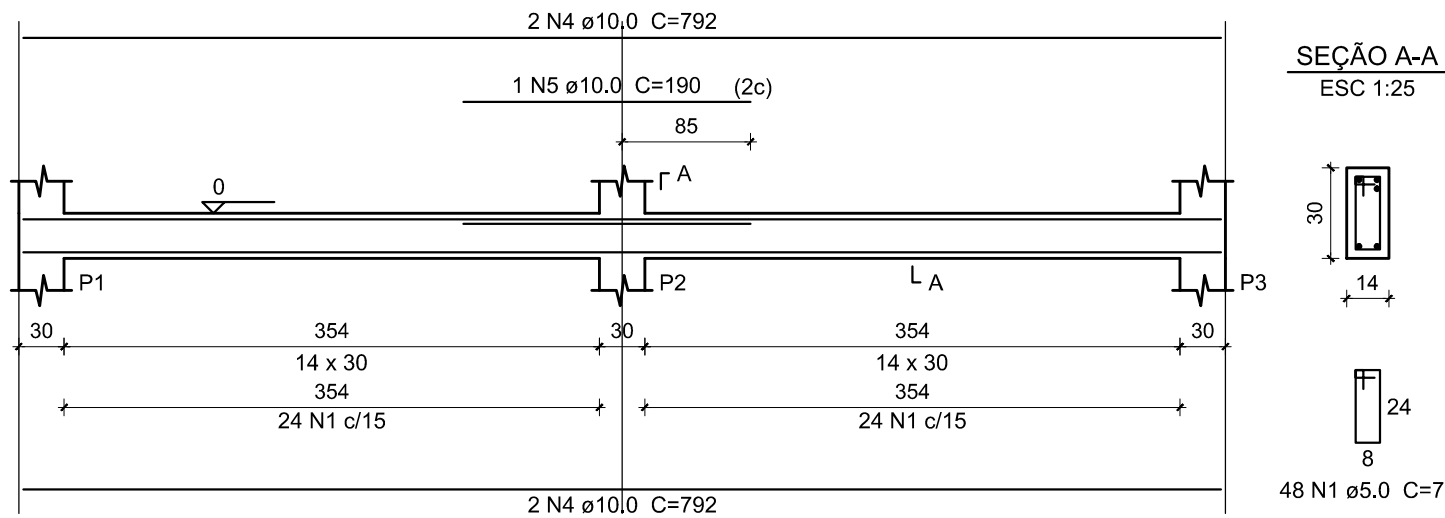
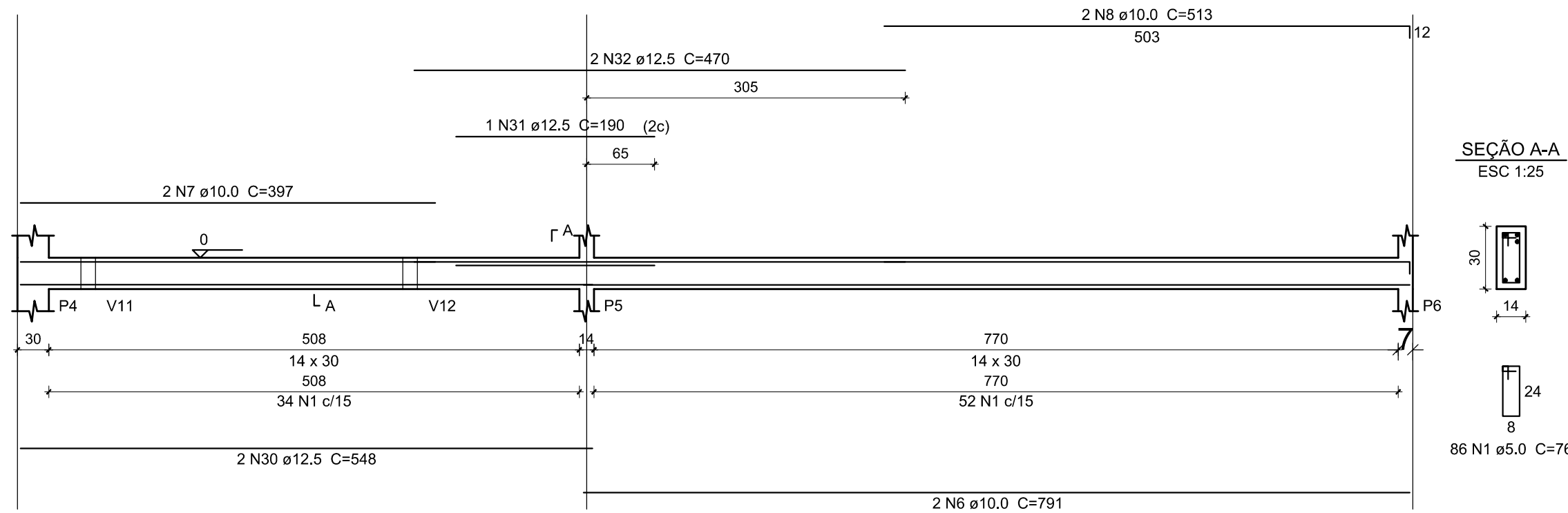


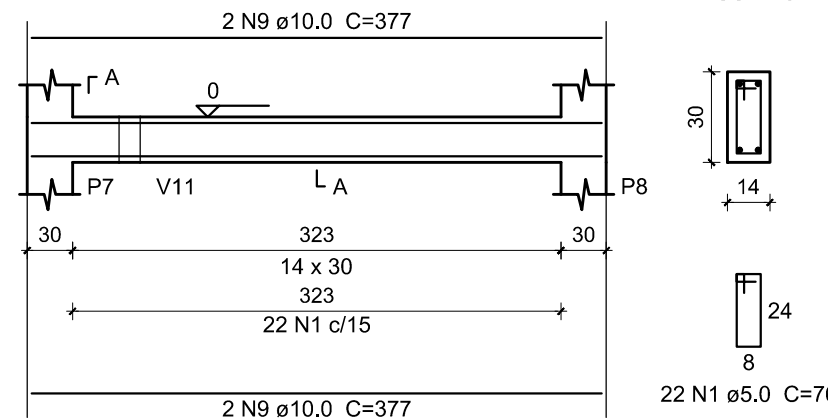
V1
ESC 1:50



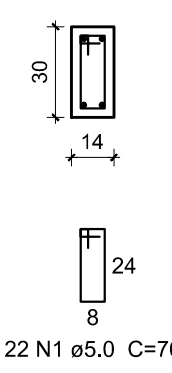
V2
ESC 1:50



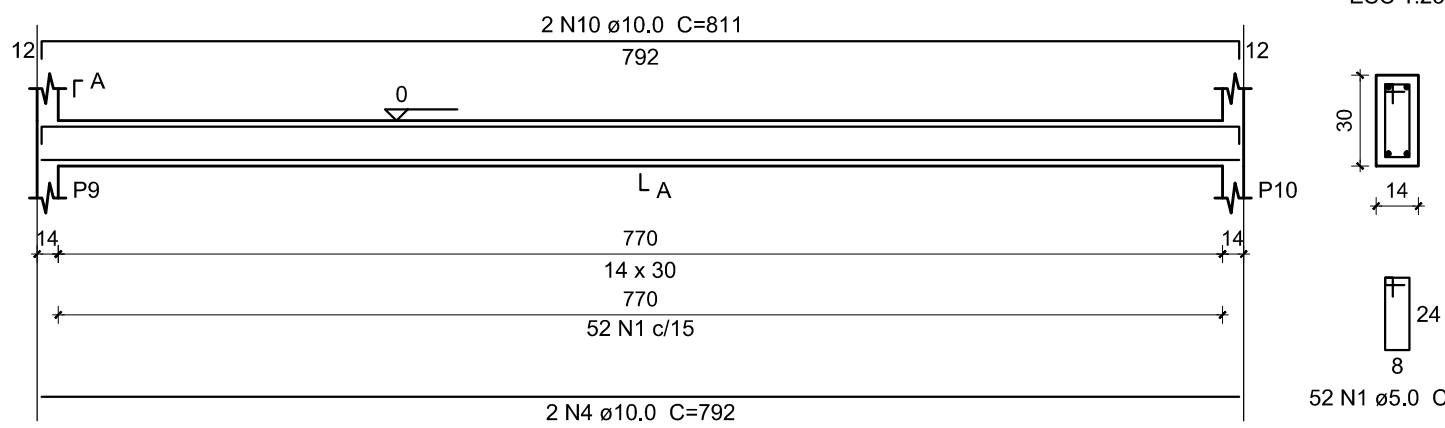
V3
ESC 1:50



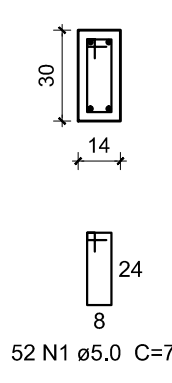
SEÇÃO A-A
ESC 1:25



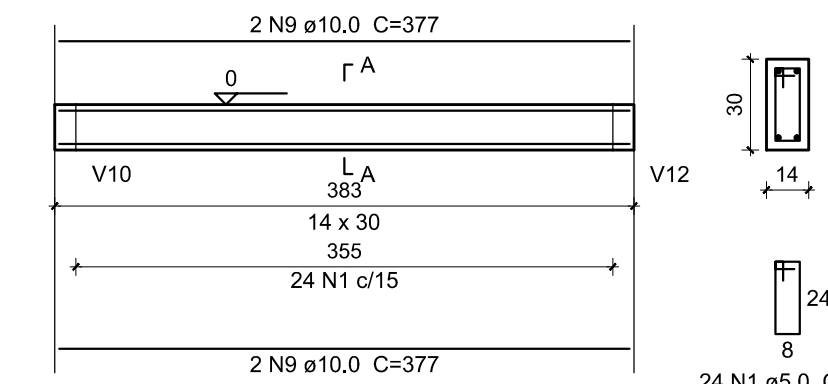
V4
ESC 1:50



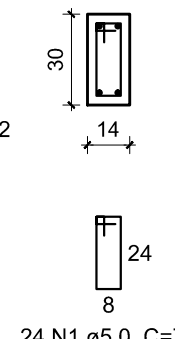
SEÇÃO A-A
ESC 1:25



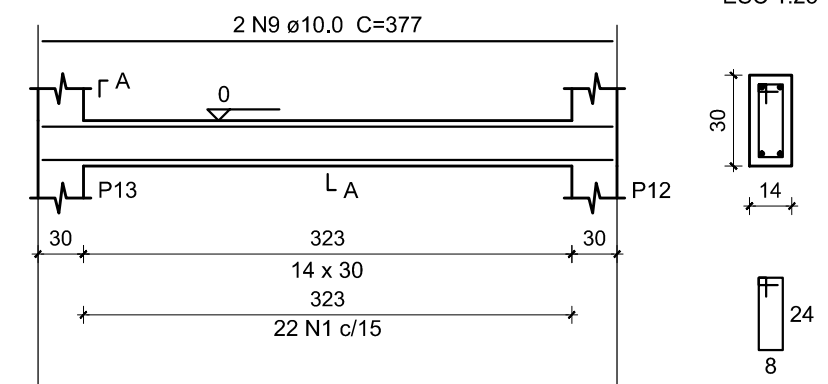
V5
ESC 1:50



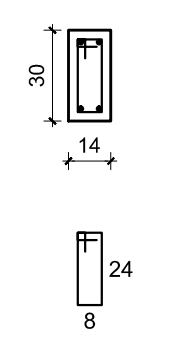
SEÇÃO A-A
ESC 1:25



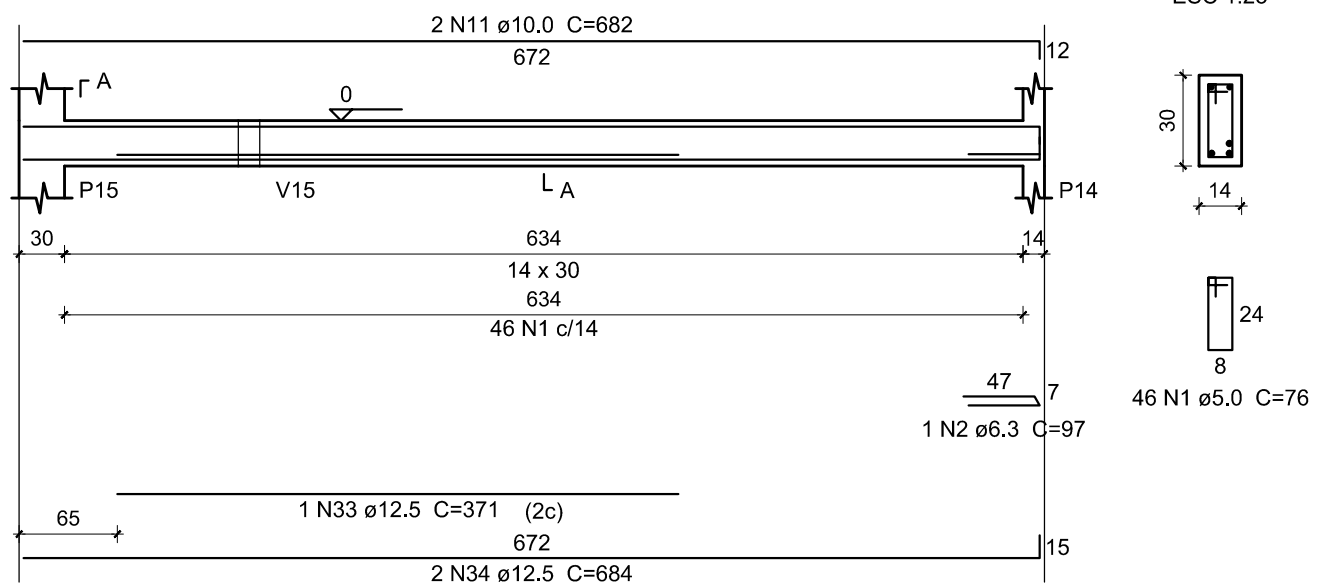
V6
ESC 1:50



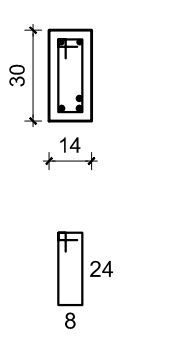
SEÇÃO A-A
ESC 1:25



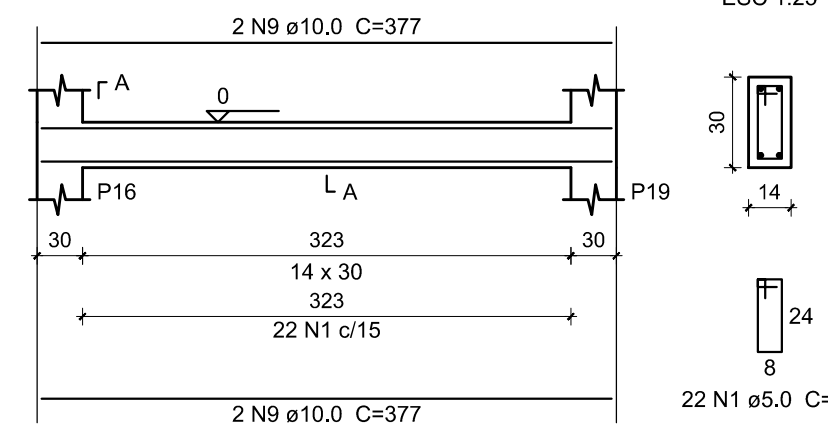
V7
ESC 1:50



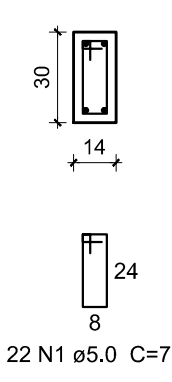
SEÇÃO A-A
ESC 1:25



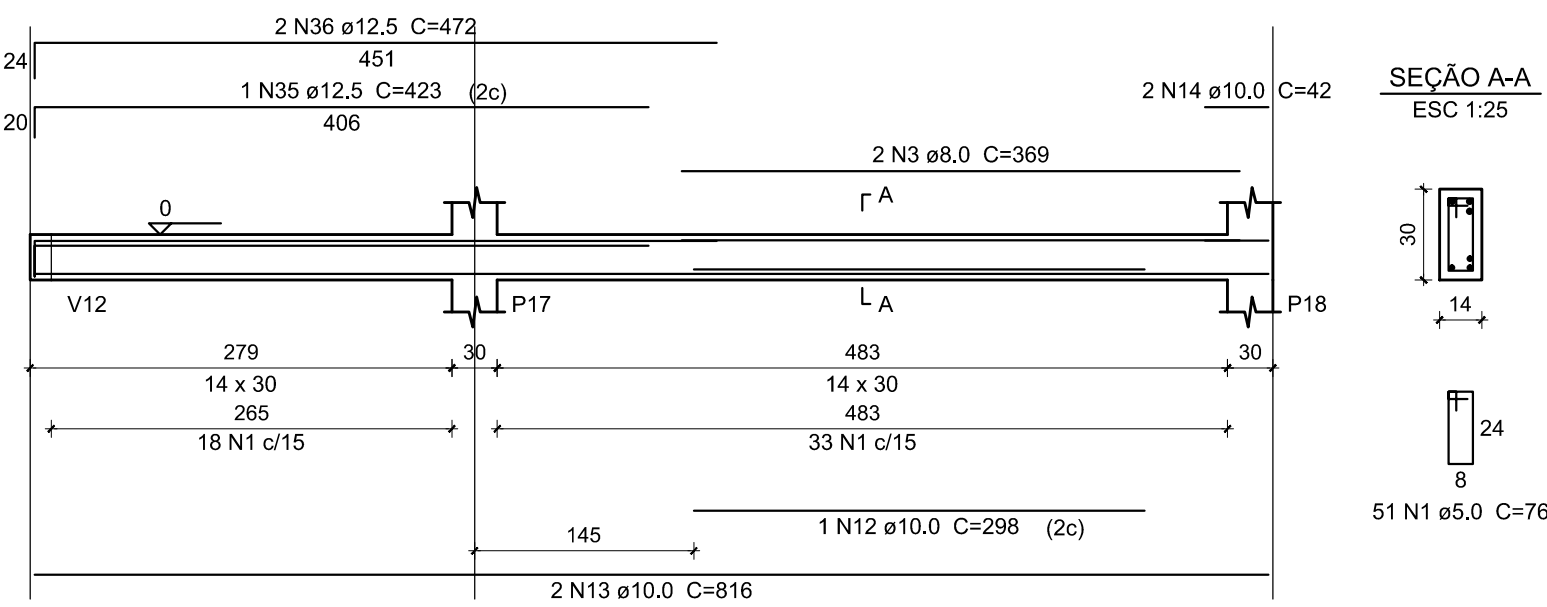
V8
ESC 1:50



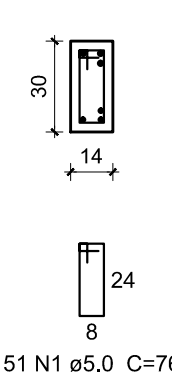
SEÇÃO A-A
ESC 1:25



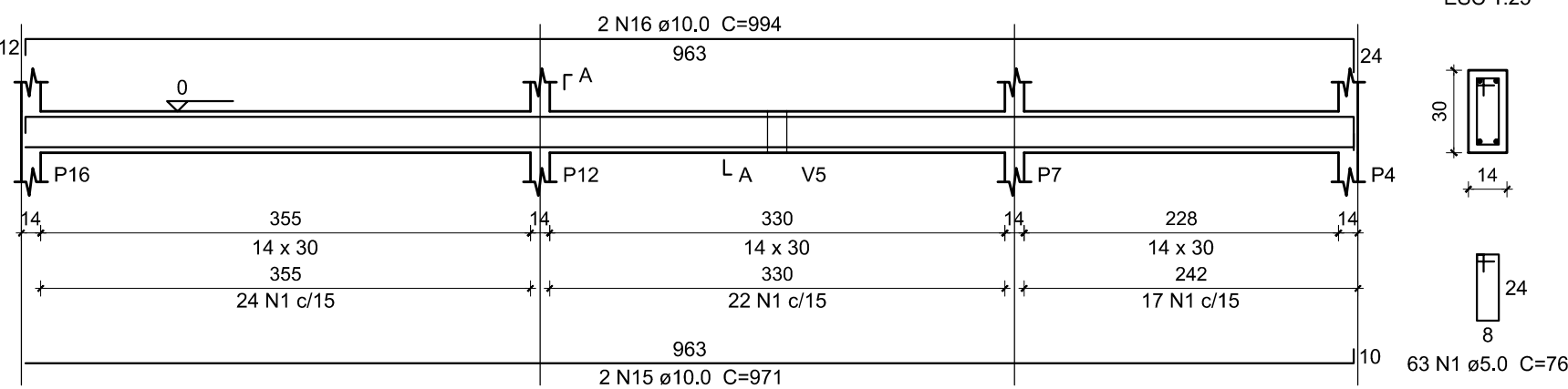
V9
ESC 1:50



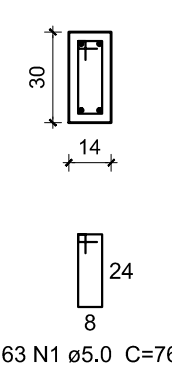
SEÇÃO A-A
ESC 1:25



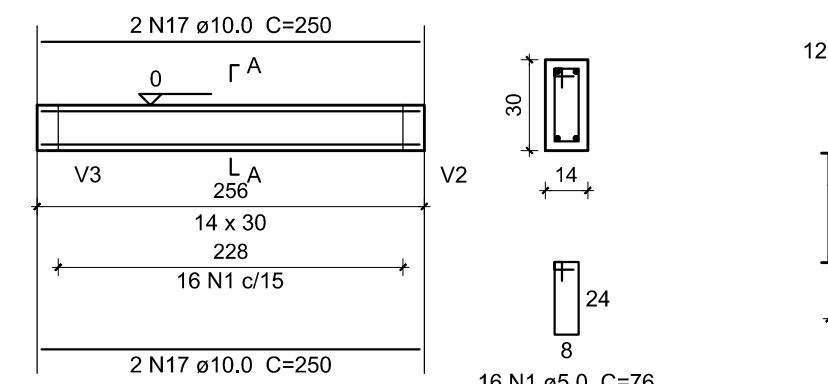
V10
ESC 1:50



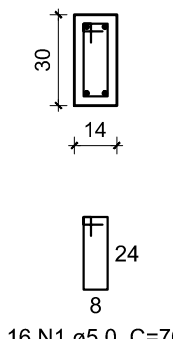
SEÇÃO A-A
ESC 1:25



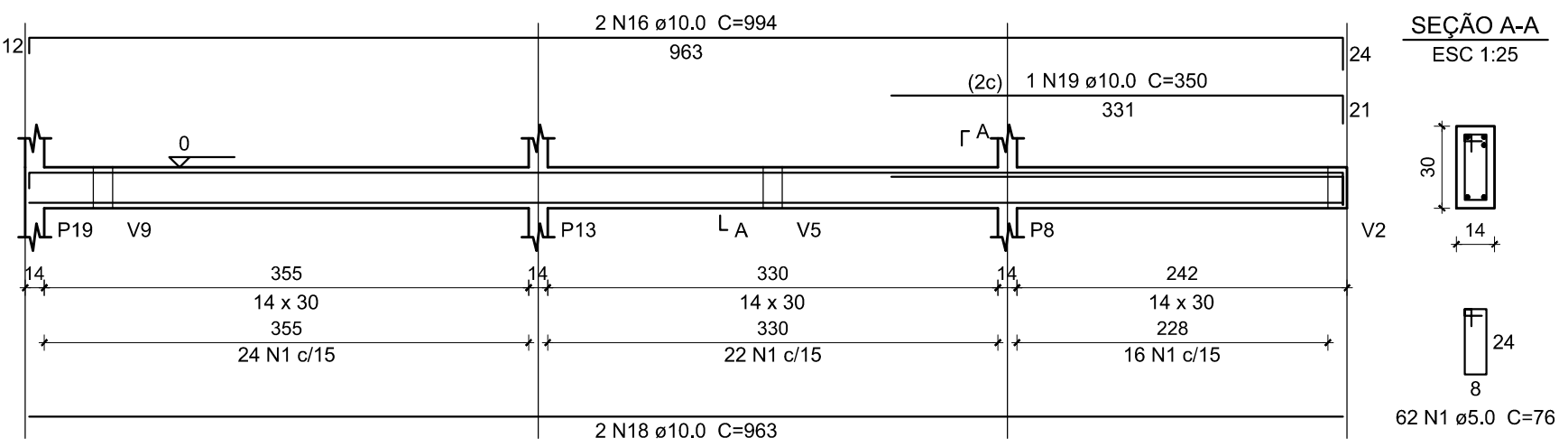
V11
ESC 1:50



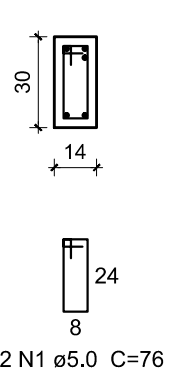
SEÇÃO A-A
ESC 1:25



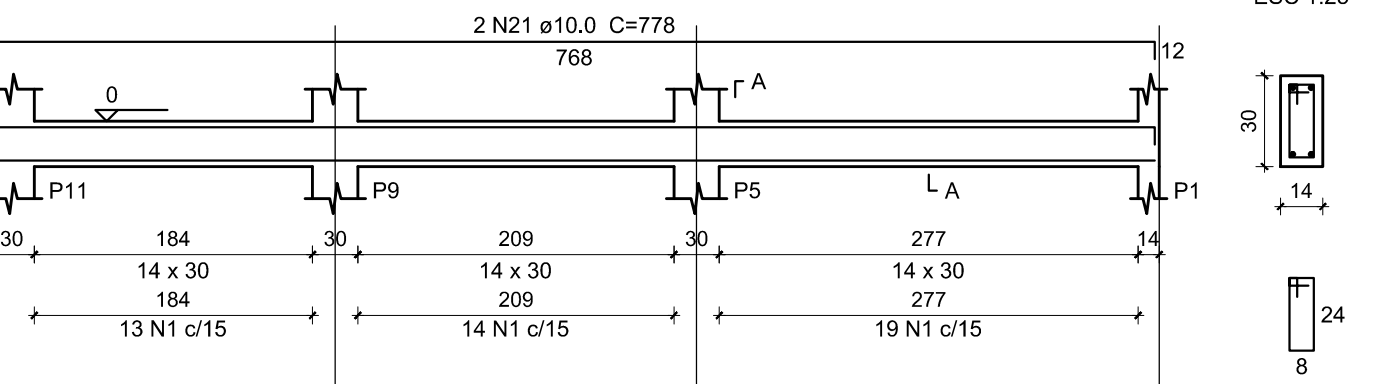
V12
ESC 1:50



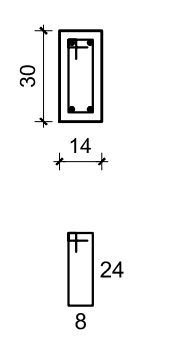
SEÇÃO A-A
ESC 1:25



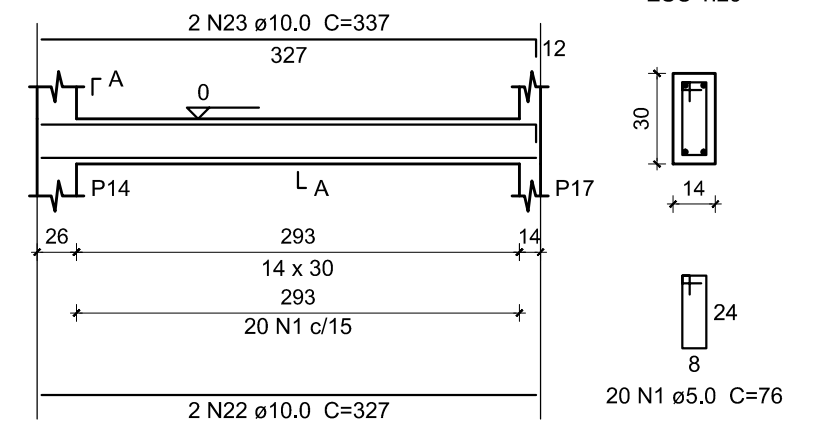
V13
ESC 1:50



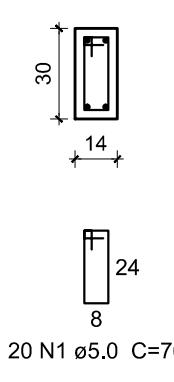
SEÇÃO A-A
ESC 1:25



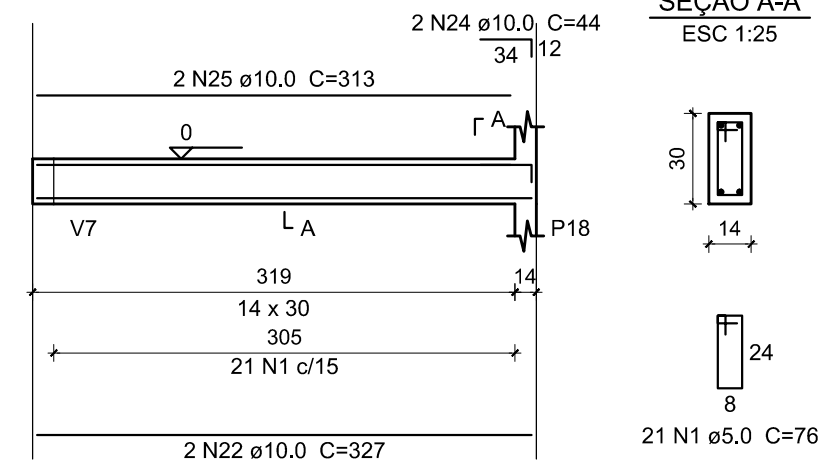
V14
ESC 1:50



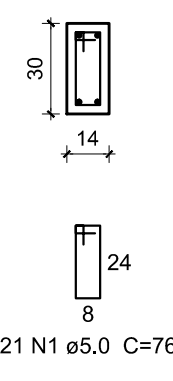
SEÇÃO A-A
ESC 1:25



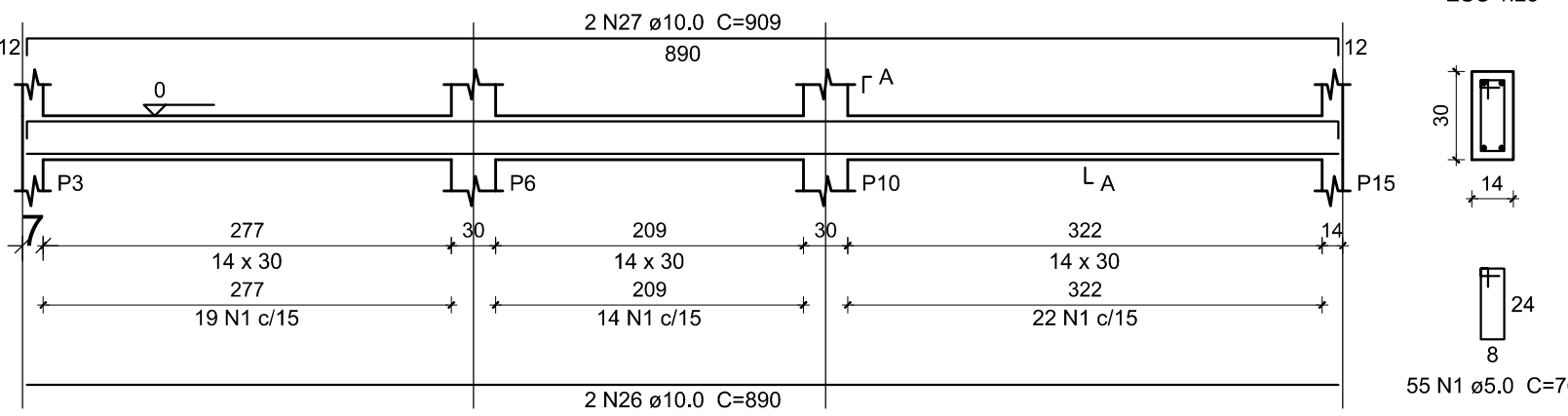
V15
ESC 1:50



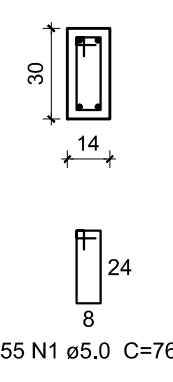
SEÇÃO A-A
ESC 1:25



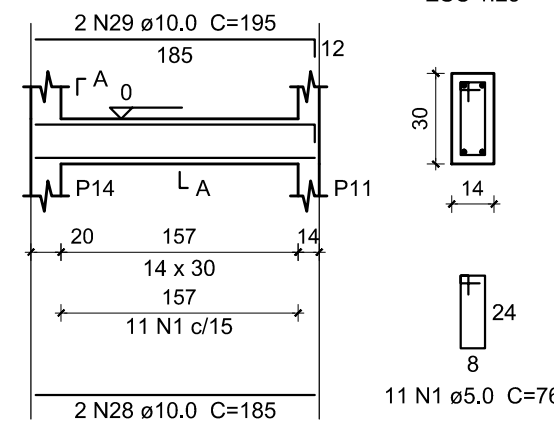
V16
ESC 1:50



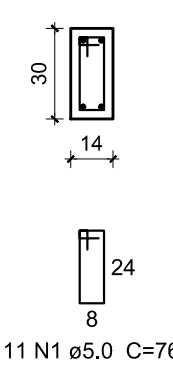
SEÇÃO A-A
ESC 1:25



V17
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	667	76	50692
CA50	2	6.3	1	97	97
	3	8.0	2	369	738
	4	10.0	6	792	4752
	5	10.0	1	190	190
	6	10.0	2	791	1582
	7	10.0	2	397	794
	8	10.0	2	513	1026
	9	10.0	16	377	6032
	10	10.0	2	811	1622
	11	10.0	2	682	1364
	12	10.0	1	298	298
	13	10.0	2	816	1632
	14	10.0	2	42	84
	15	10.0	2	971	1942
	16	10.0	4	994	3976
	17	10.0	4	250	1000
	18	10.0	2	963	1926
	19	10.0	1	350	350
	20	10.0	2	768	1536
	21	10.0	2	778	1556
	22	10.0	4	327	1308
	23	10.0	2	337	674
	24	10.0	2	44	88
	25	10.0	2	313	626
	26	10.0	2	890	1780
	27	10.0	2	909	1818
	28	10.0	2	185	370
	29	10.0	2	195	390
	30	12.5	2	548	1096
	31	12.5	1	190	190
	32	12.5	2	470	940
	33	12.5	1	371	371
	34	12.5	2	684	1368
	35	12.5	1	423	423
	36	12.5	2	472	944

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1	0.3
	8.0	7.4	3.2
	10.0	387.2	262.6
	12.5	53.4	56.5
CA60	5.0	507	85.9
PESO TOTAL (kg)			
CA50	322.5		
CA60	85.9		

Volume de concreto (C-30) = 4.49 m³
Área de forma = 79.07 m²

PREFEITURA MUNICIPAL DO RIO GRANDE
SECRETARIA MUNICIPAL DE COORDENAÇÃO E PLANEJAMENTO



CENTRO DE CONVIVÊNCIA INTERGERACIONAL
SMCAS

AV. PELOTAS, ENTRE AS RUAS MINAS GERAIS E GONÇALVES DIAS | RIO GRANDE | RS
LADO ÍMPAR

PROJETO ESTRUTURAL
DETALHAMENTO VIGAS BALDRAMES

ARO. E URB. GUILHERME VALENTE ELIAS
CAU 457.150-6

ENG. CIVIL EVERTON MENA LOPES
CREA/RN 166622

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CREA/RN 333093

03/09

ESCALA INDICADA