

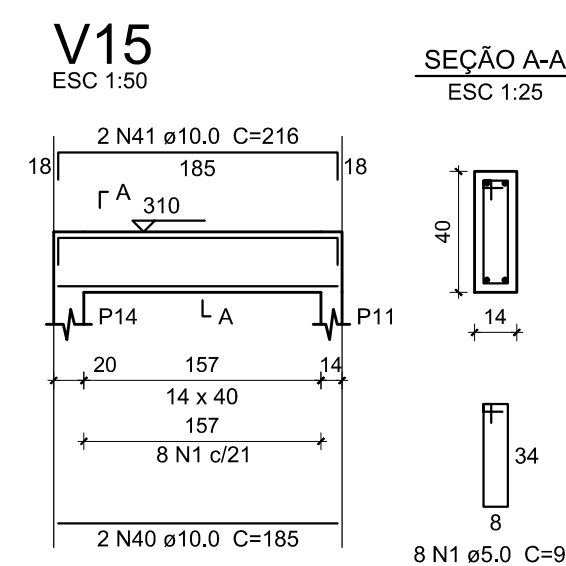
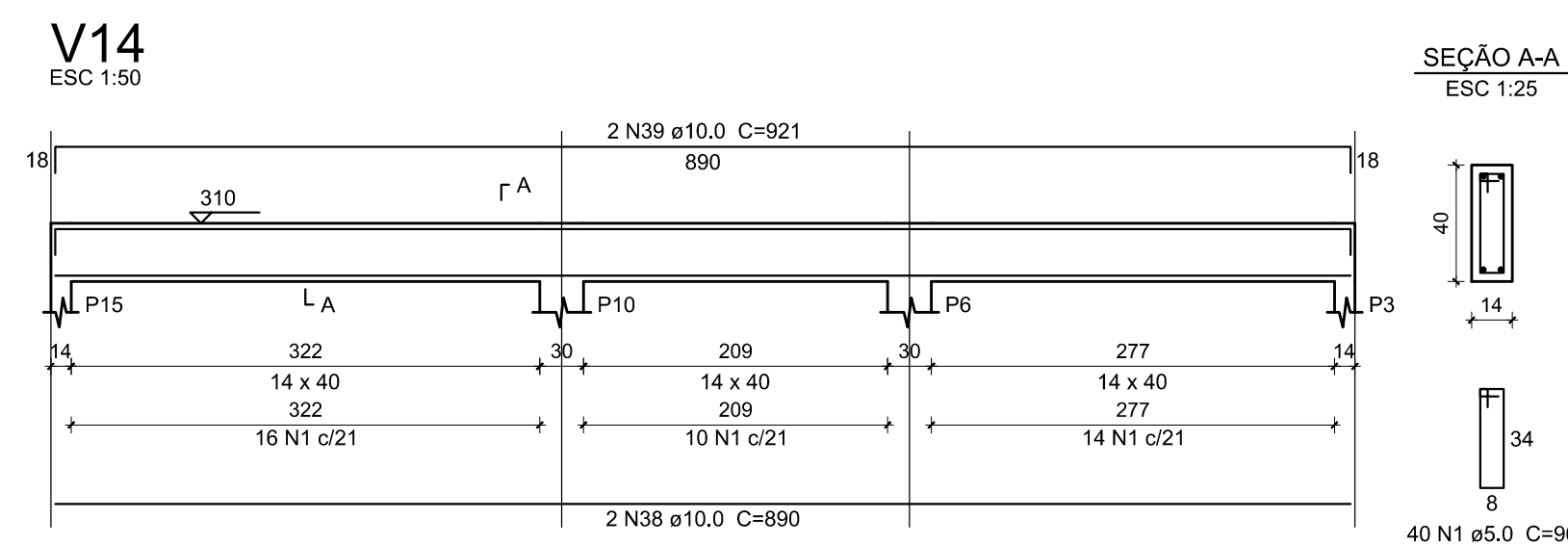
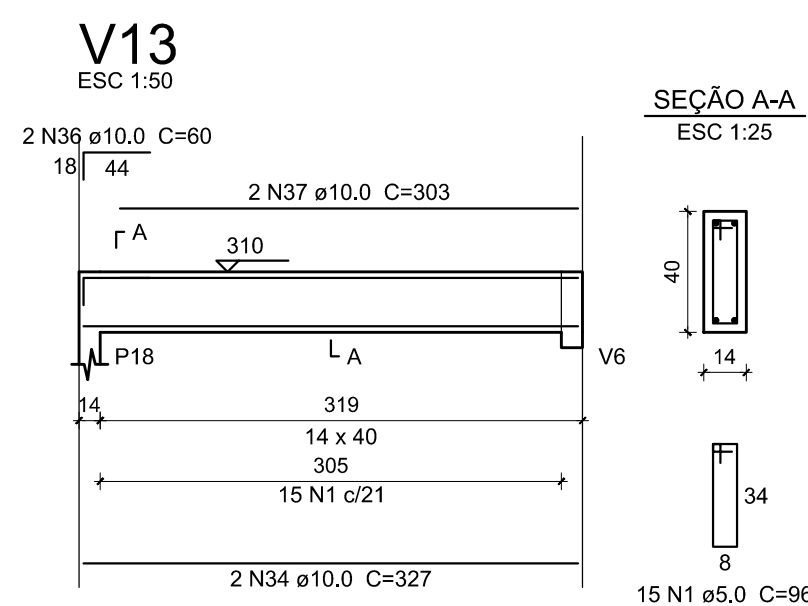
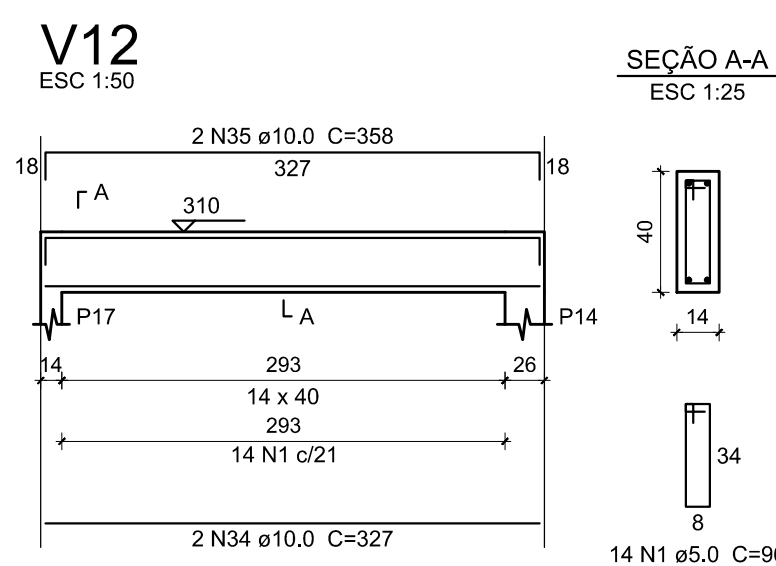
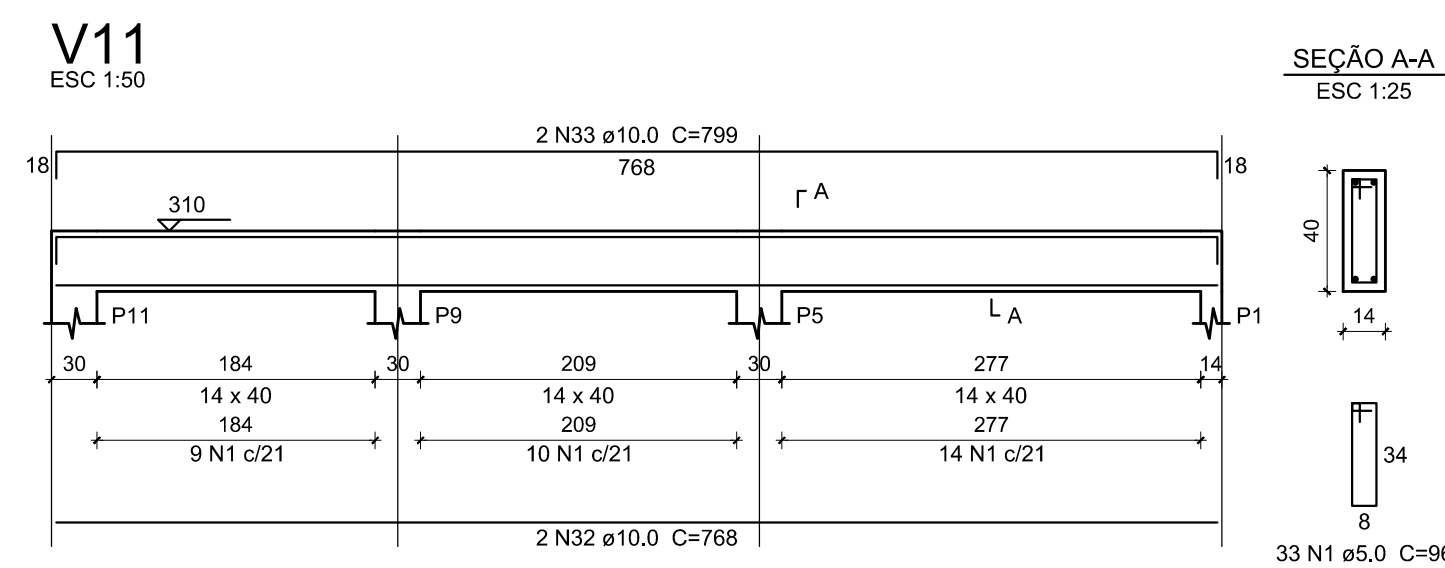
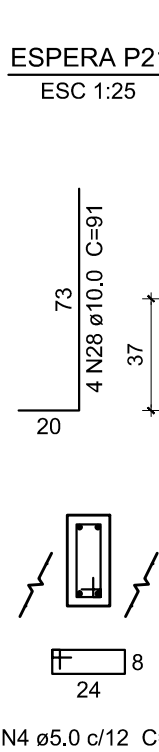
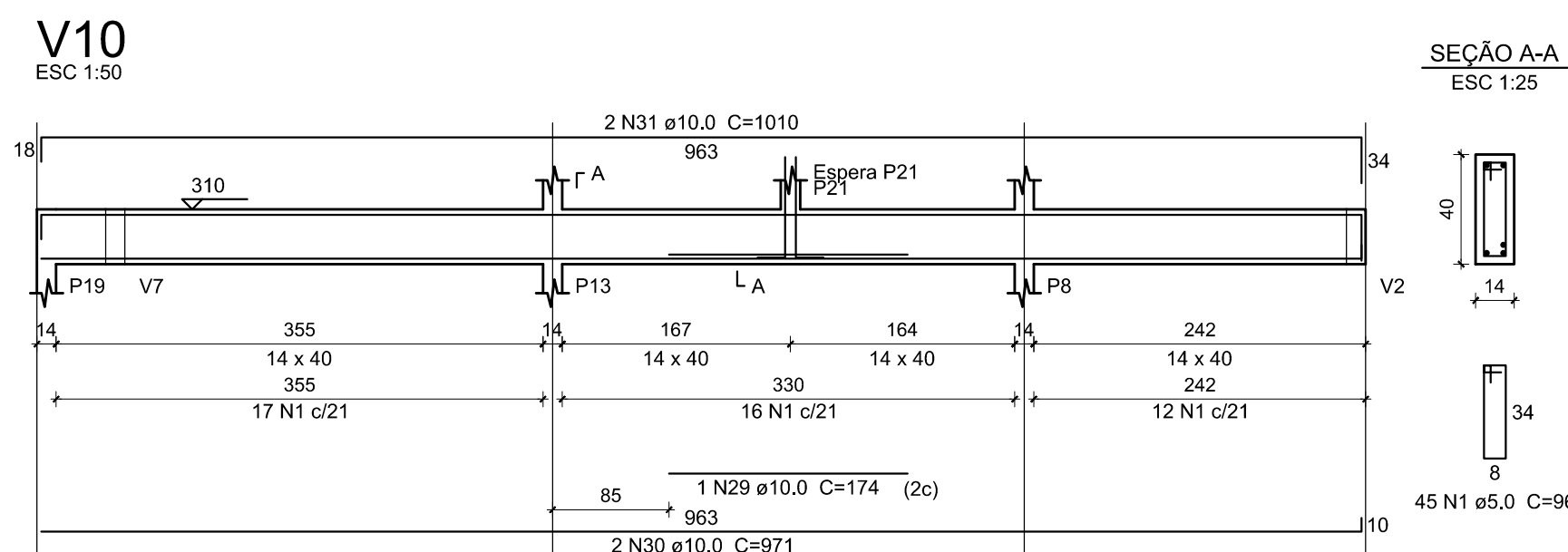
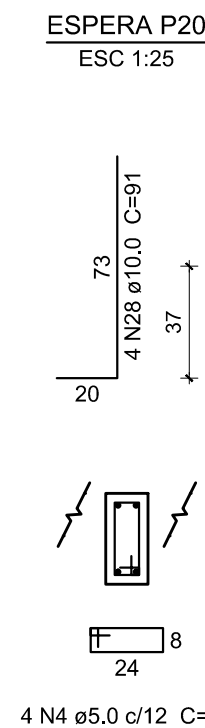
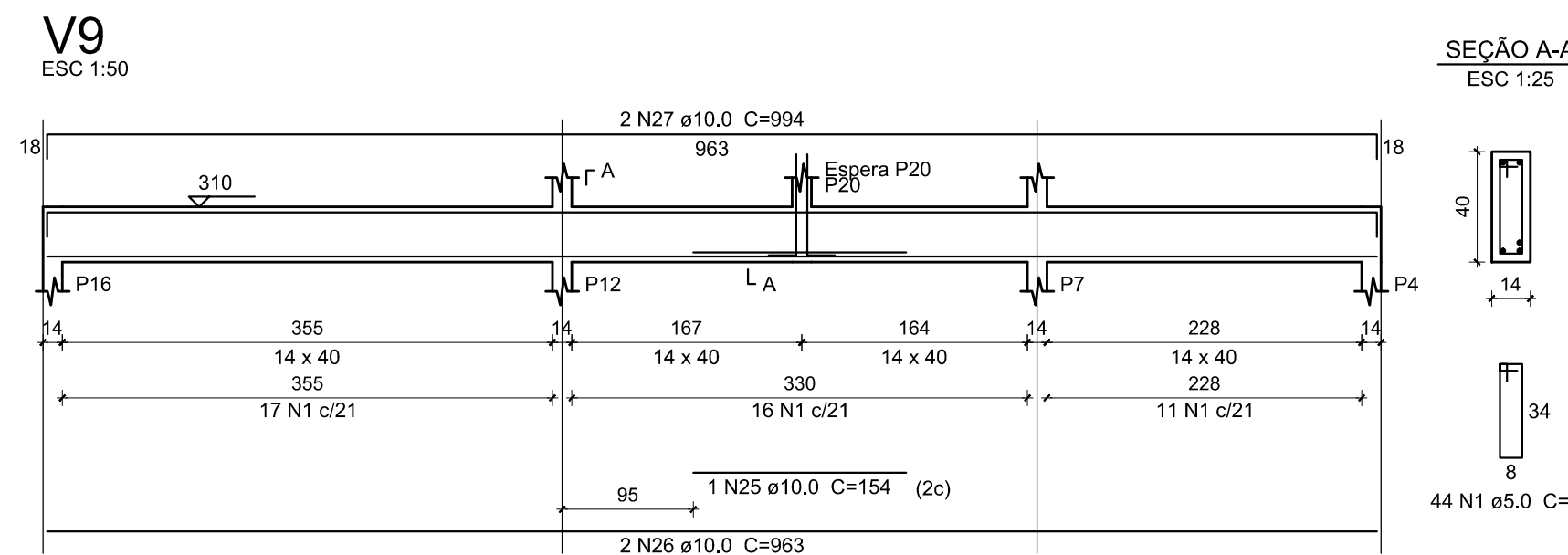
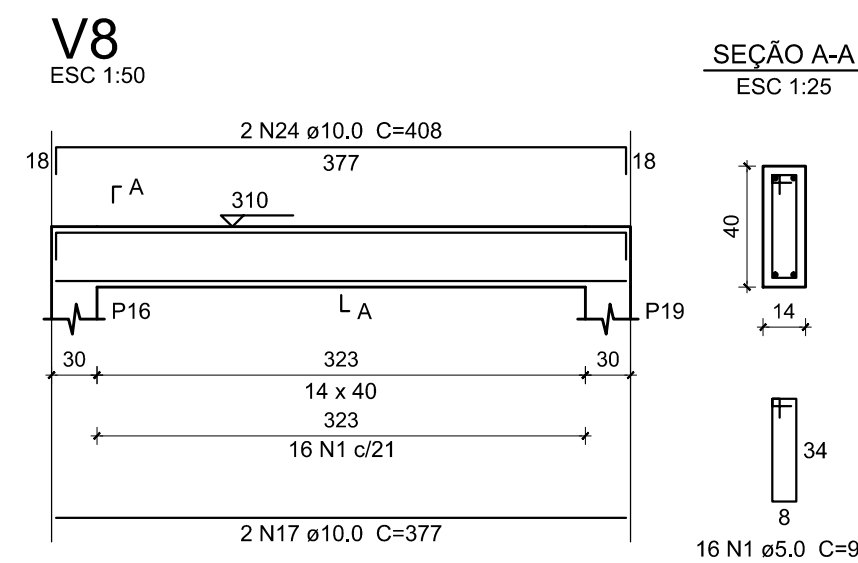
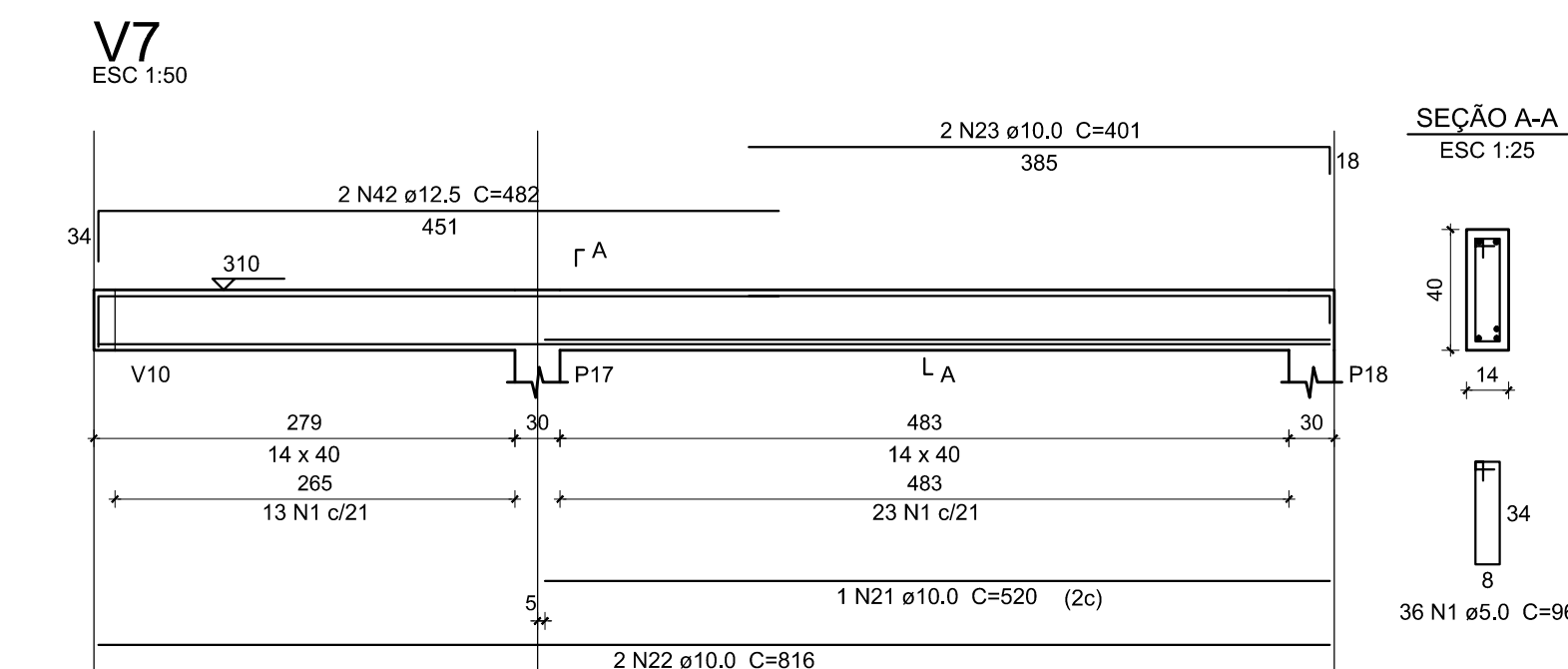
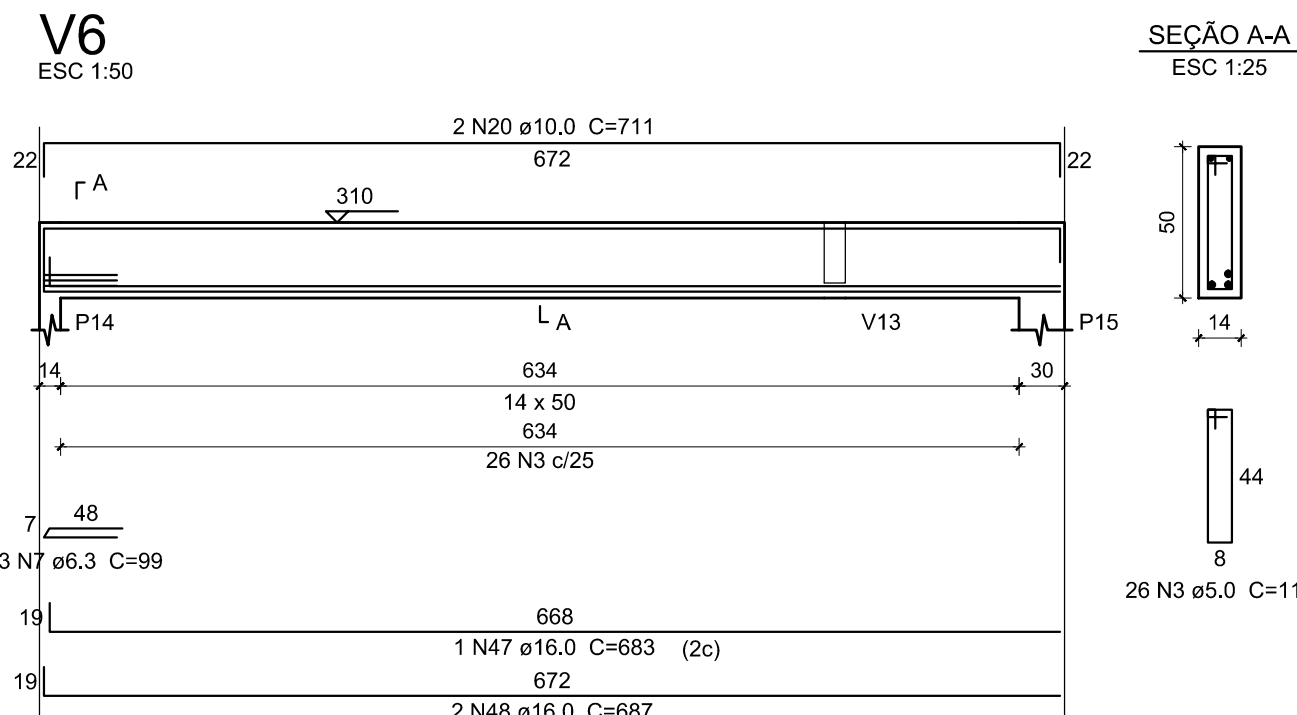
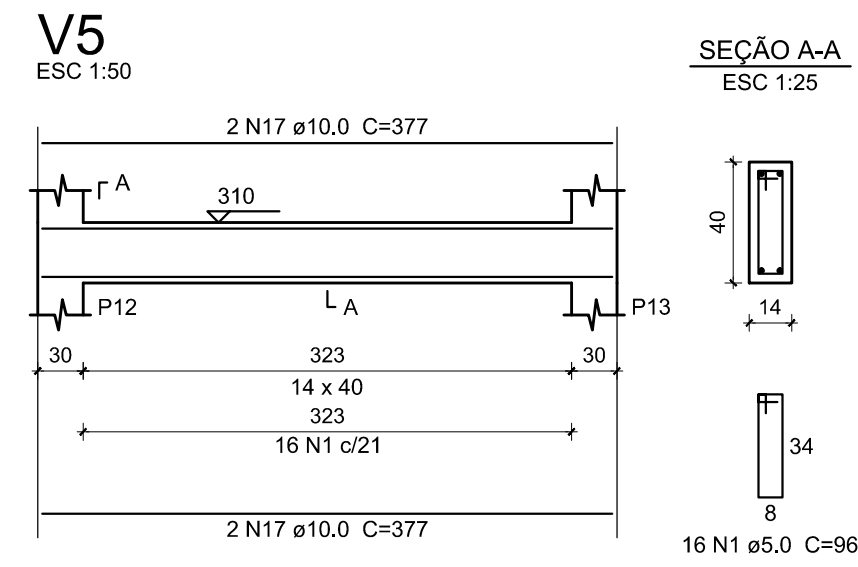
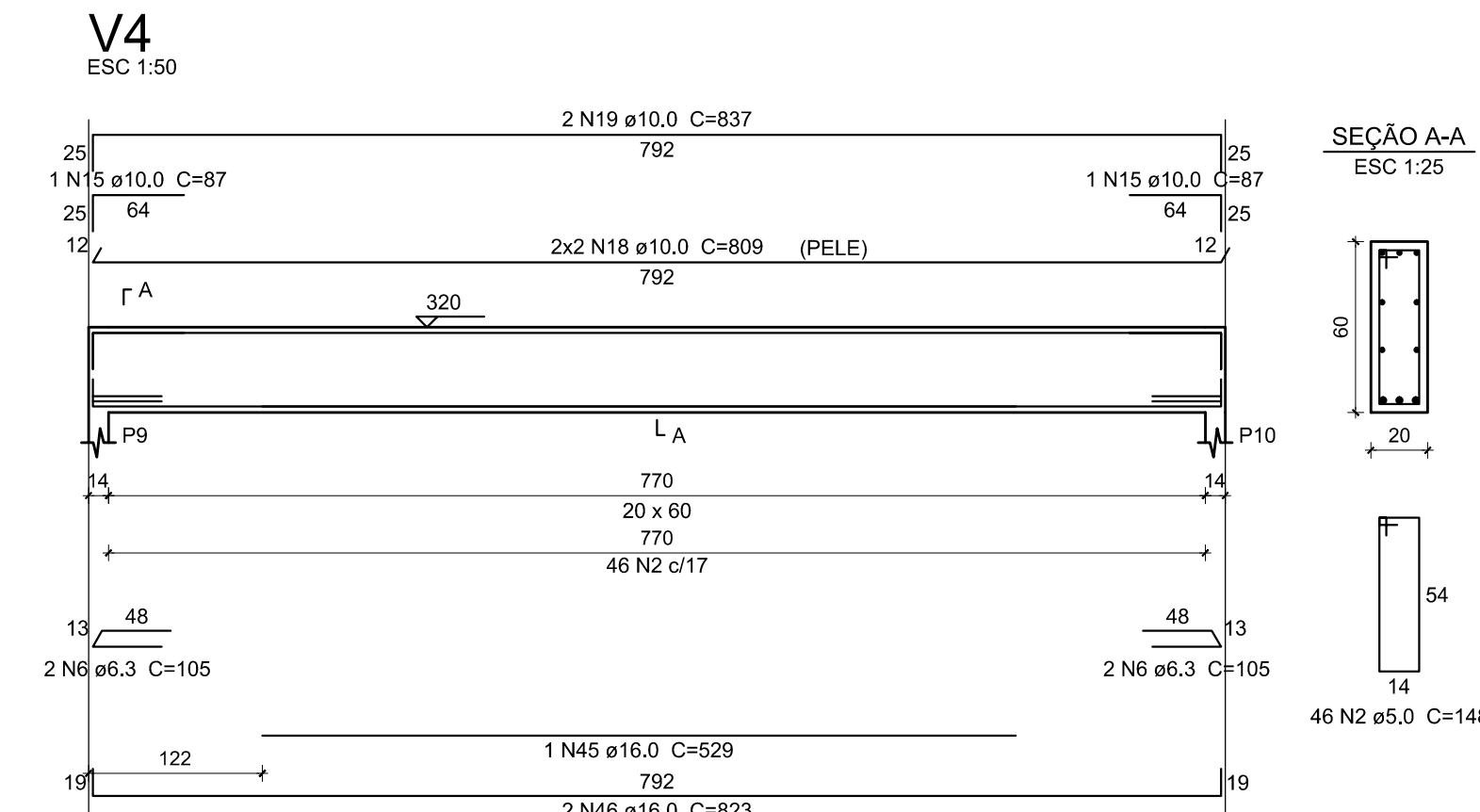
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	72.1	19.4
	10.0	418.4	283.7
	12.5	9.7	10.2
	16.0	63.5	110.2
CA60	5.0	500.8	84.9
PESO TOTAL (kg)			
CA50	423.6		
CA60	84.9		

Volume de concreto (C-30) = 6,74 m³
Área de forma = 103,1 m²

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V1	1	5.0	342	96	32832
V4	2	5.0	92	148	13616
V7	3	5.0	26	116	3016
V10	4	5.0	8	76	608
V13	5	6.3	8	798	6384
	6	6.3	5	105	525
	7	6.3	3	99	297
	8	10.0	2	792	1584
	9	10.0	1	210	210
	10	10.0	2	823	1646
	11	10.0	2	545	1090
	12	10.0	1	220	220
	13	10.0	2	285	570
	14	10.0	2	738	1476
	15	10.0	5	87	435
	16	10.0	2	748	1496
	17	10.0	10	377	3770
	18	10.0	4	809	3236
	19	10.0	2	837	1674
	20	10.0	2	711	1422
	21	10.0	1	520	520
	22	10.0	2	816	1632
	23	10.0	2	401	802
	24	10.0	2	408	816
	25	10.0	1	154	154
	26	10.0	2	963	1926
	27	10.0	2	994	1988
	28	10.0	8	91	728
	29	10.0	1	174	174
	30	10.0	2	971	1942
	31	10.0	2	1010	2020
	32	10.0	2	768	1536
	33	10.0	2	799	1598
	34	10.0	4	327	1308
	35	10.0	2	358	716
	36	10.0	2	60	120
	37	10.0	2	303	606
	38	10.0	2	890	1780
	39	10.0	2	921	1842
	40	10.0	2	185	370
	41	10.0	2	216	432
	42	12.5	2	482	964
	43	16.0	1	489	489
	44	16.0	2	814	1628
	45	16.0	1	529	529
	46	16.0	2	823	1646
	47	16.0	1	683	683
	48	16.0	2	687	1374



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 COBERTURA

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05/09
ESCALA INDICADA