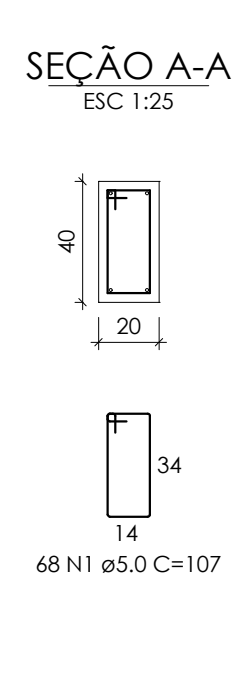
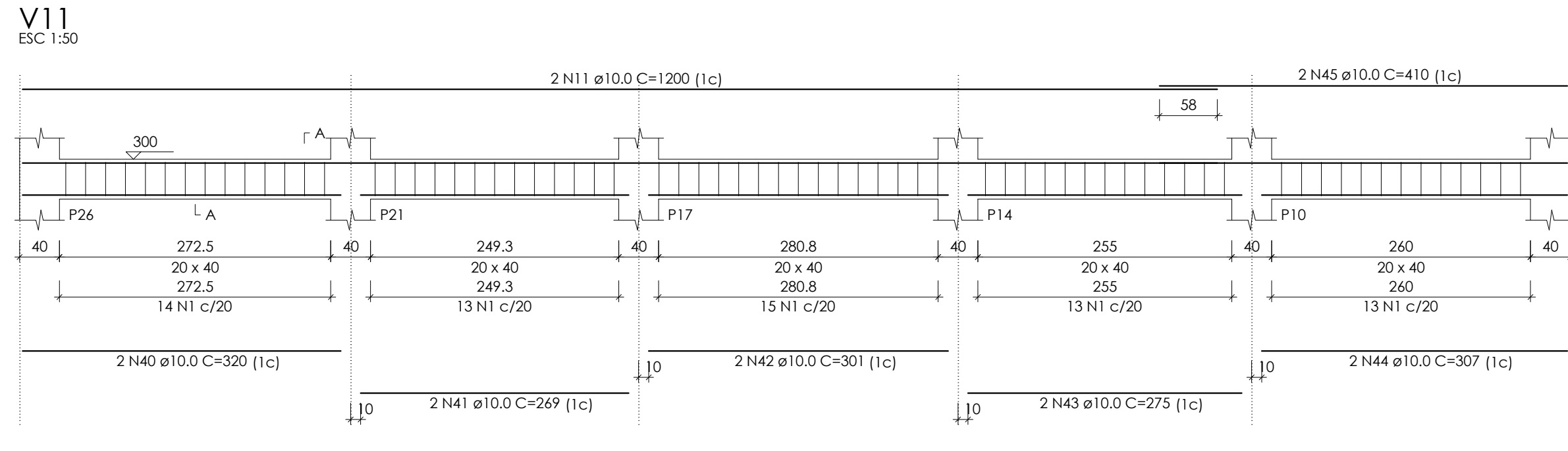
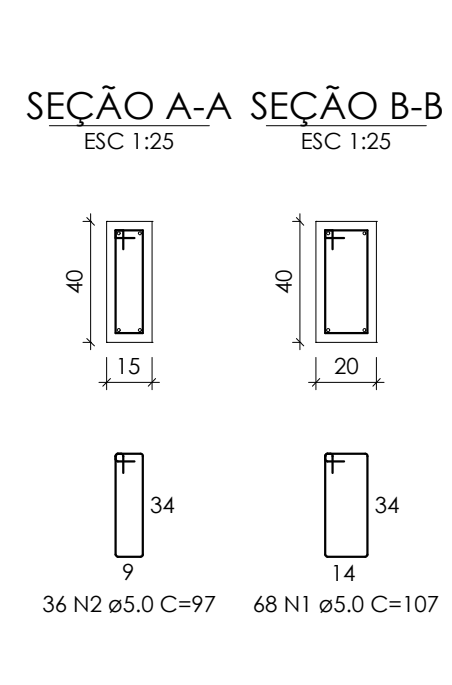
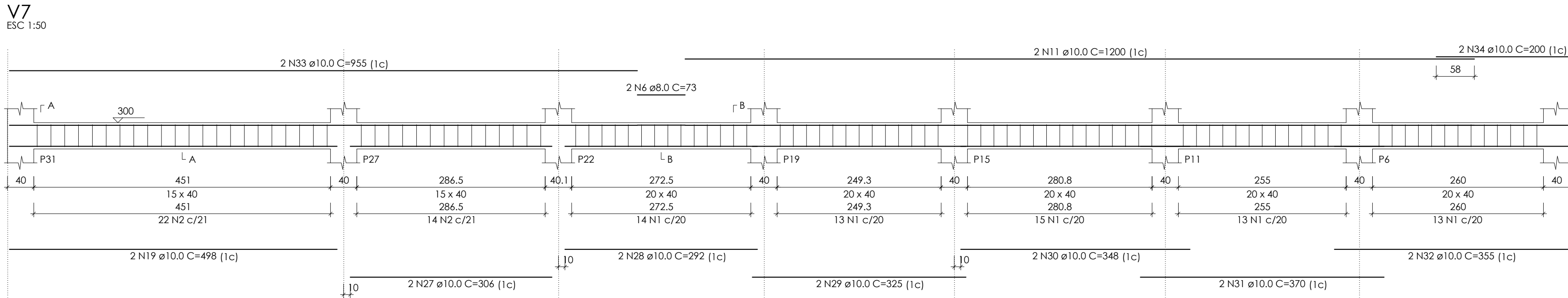
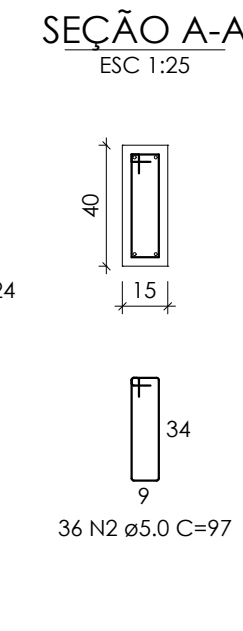
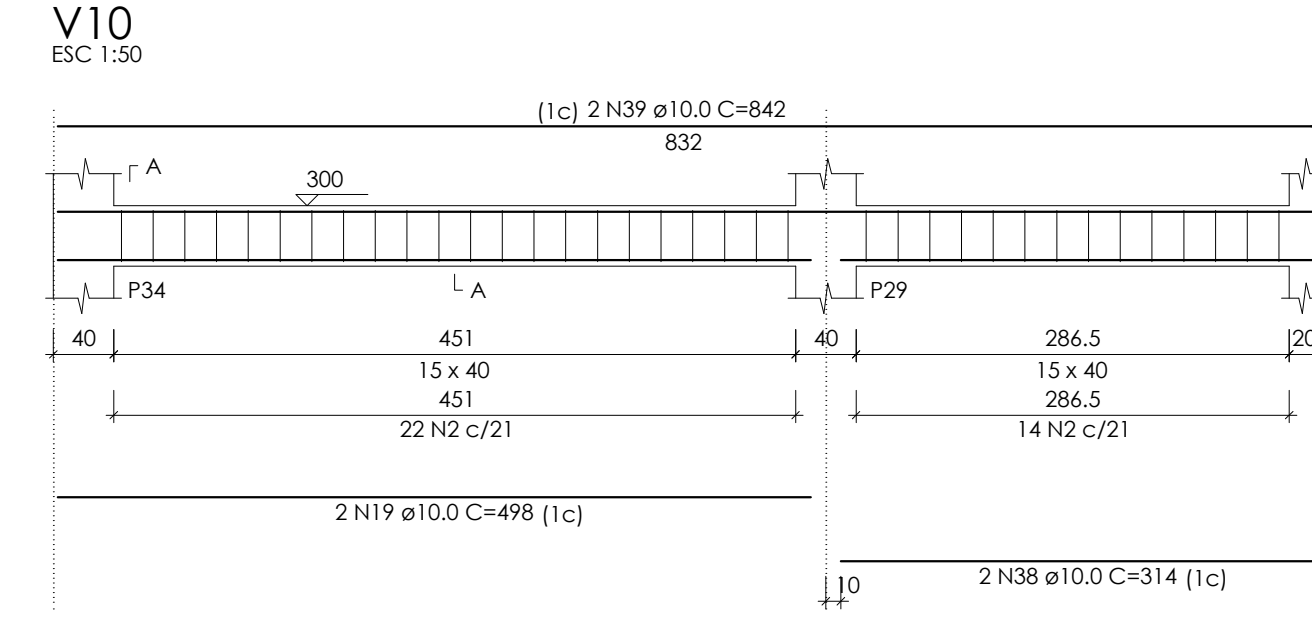
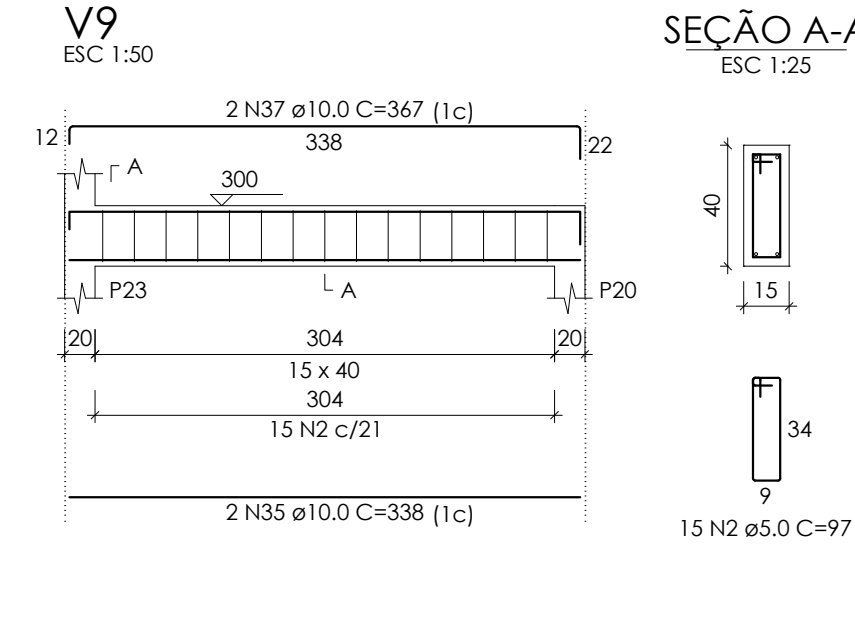
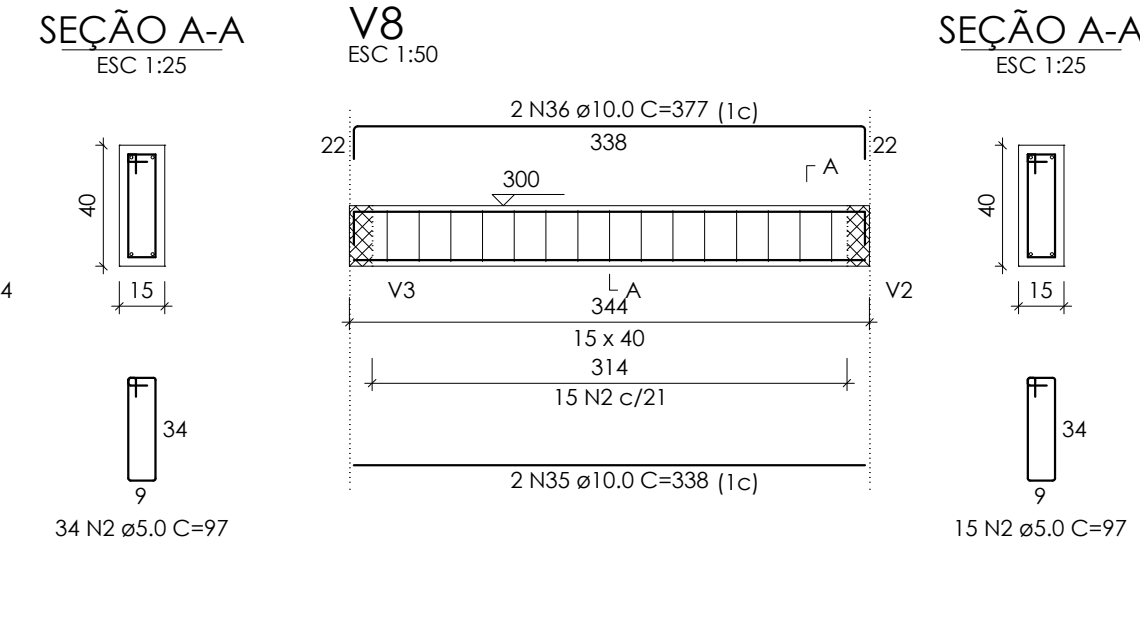
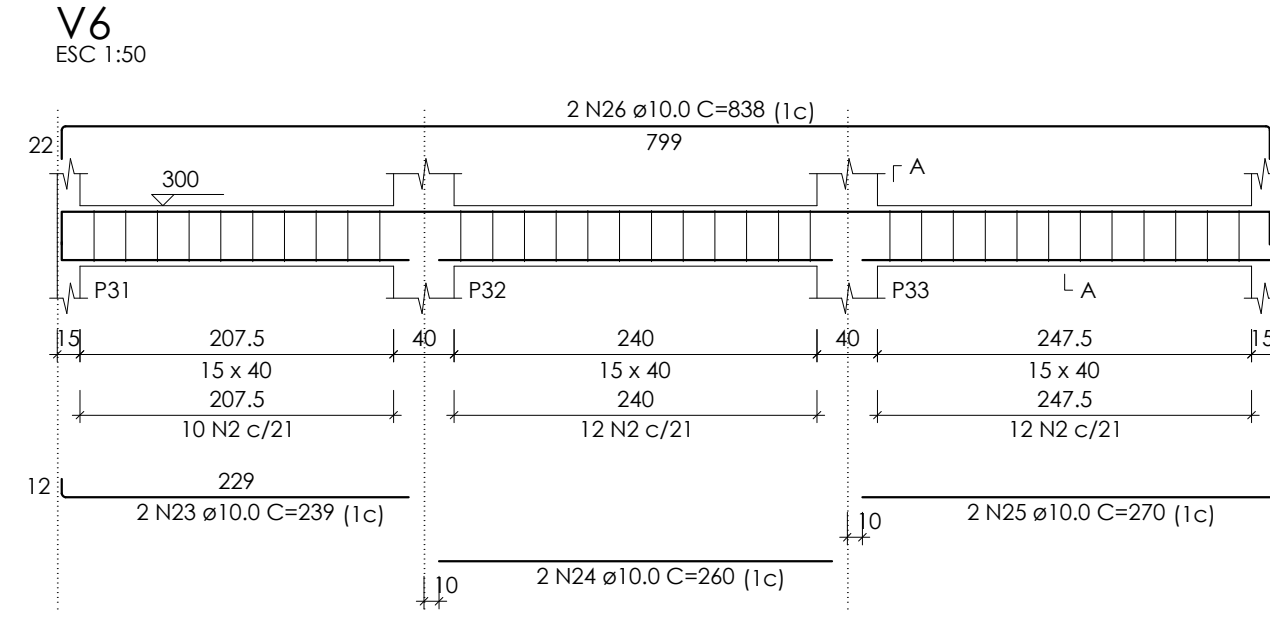
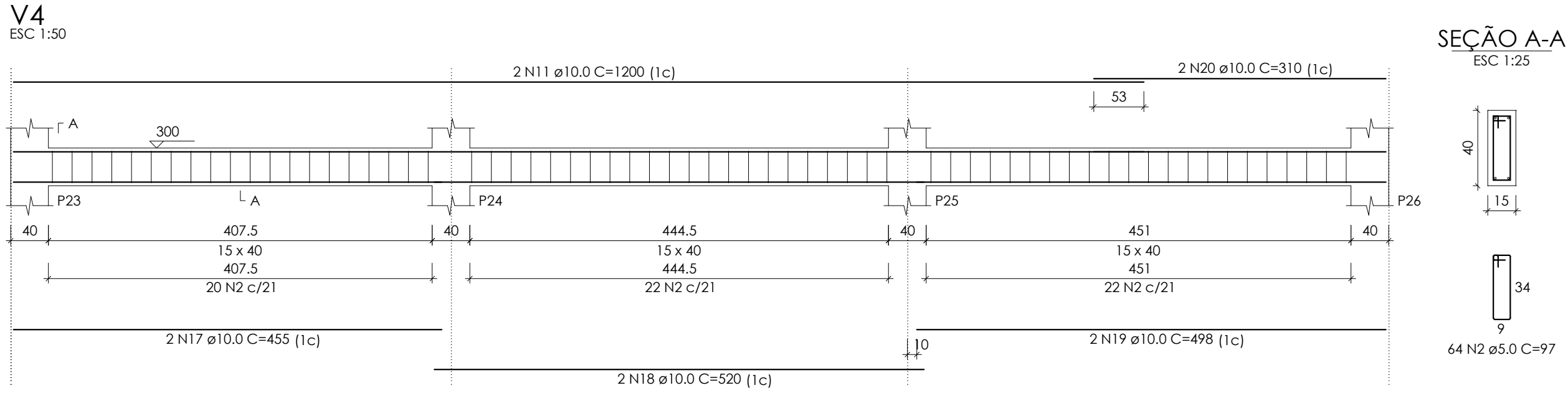


RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	217	107	23219
	2	5.0	230	97	22310
	3	5.0	8	76	608
	4	5.0	4	24	96
	5	5.0	31	107	3317
CA50	6	8.0	2	73	146
	7	10.0	2	537	1114
	8	10.0	4	380	1520
	9	10.0	2	423	846
	10	10.0	2	722	1444
	11	10.0	8	1200	9600
	12	10.0	2	668	1336
	13	10.0	6	377	2262
	14	10.0	2	398	796
	15	10.0	2	498	996
	16	10.0	1	187	374
	17	10.0	2	455	910
	18	10.0	2	520	1040
	19	10.0	2	498	996
	20	10.0	2	310	620
	21	10.0	3	501	1503
	22	10.0	2	289	578
	23	10.0	2	239	478
	24	10.0	2	240	480
	25	10.0	2	270	540
	26	10.0	2	838	1676
	27	10.0	2	336	672
	28	10.0	2	292	584
	29	10.0	2	325	650
	30	10.0	2	348	696
	31	10.0	2	370	740
	32	10.0	2	355	710
	33	10.0	2	380	760
	34	10.0	2	200	400
	35	10.0	2	1382	2764
	36	10.0	2	377	754
	37	10.0	2	380	760
	38	10.0	2	314	628
	39	10.0	2	348	696
	40	10.0	2	320	640
	41	10.0	2	249	498
	42	10.0	2	301	602
	43	10.0	2	275	550
	44	10.0	2	410	820
	45	10.0	2	500	1000
	46	12.5	2	836	1672

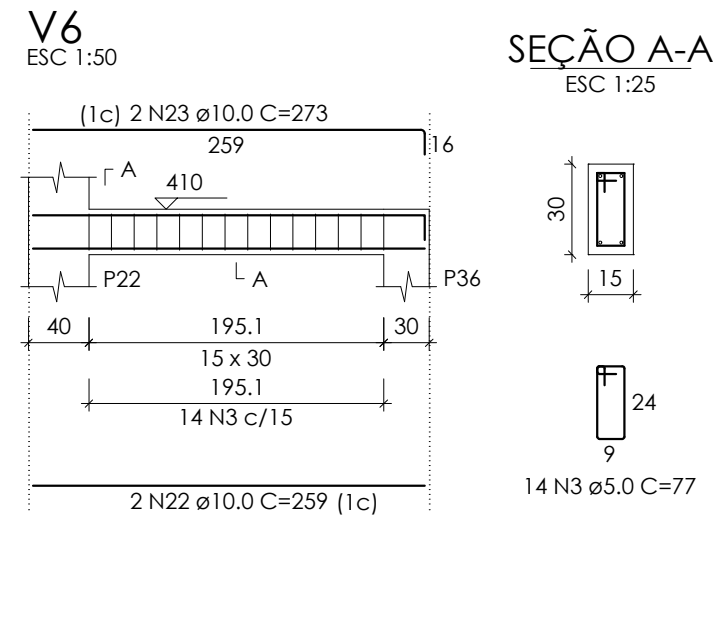
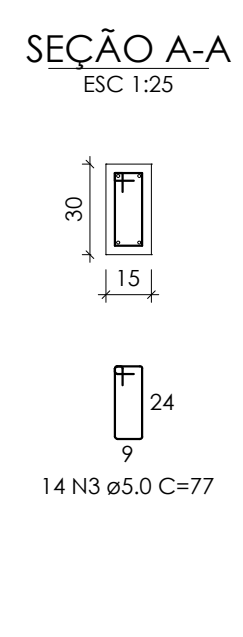
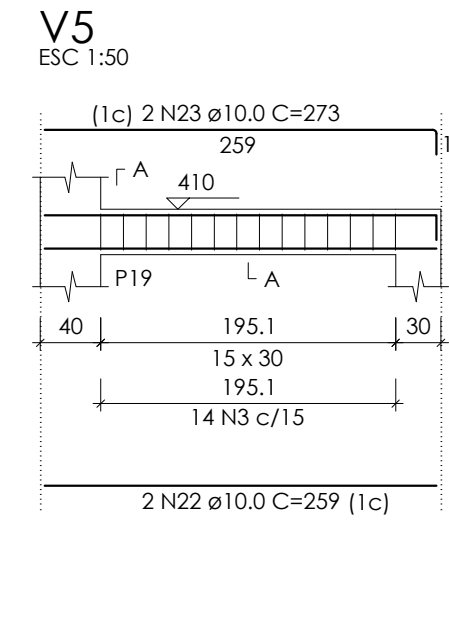
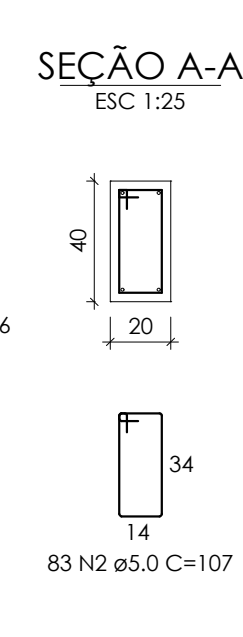
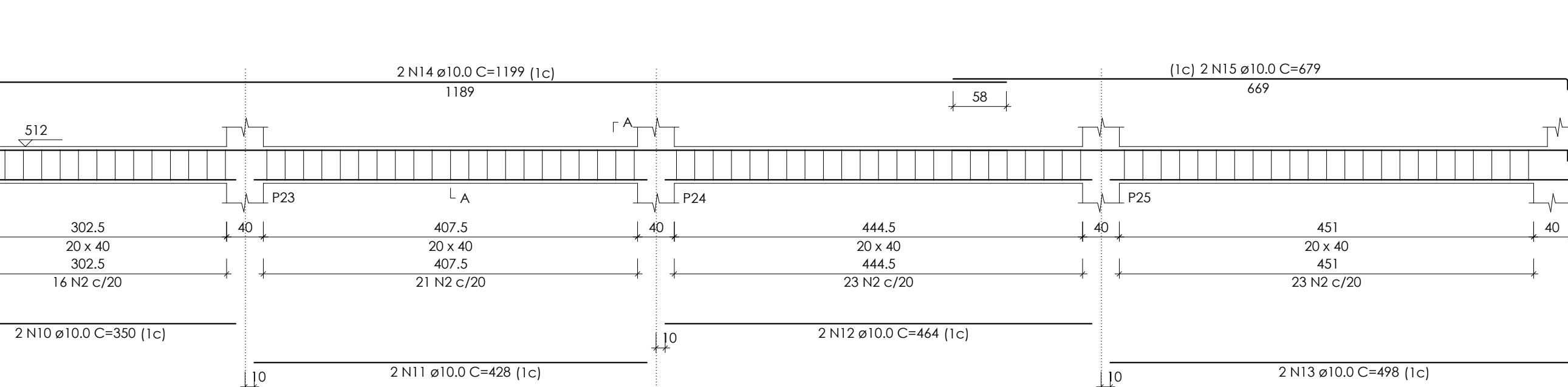
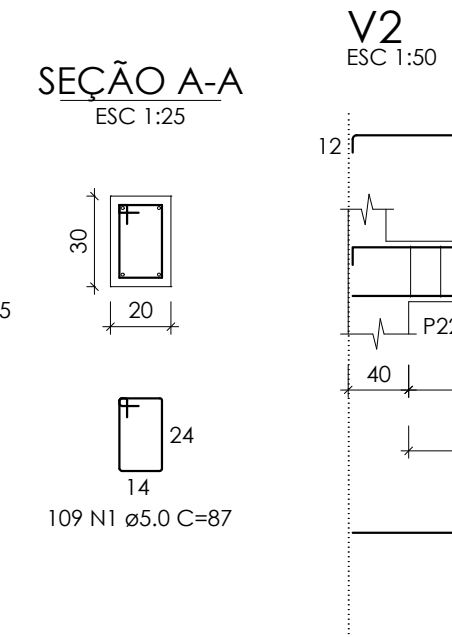
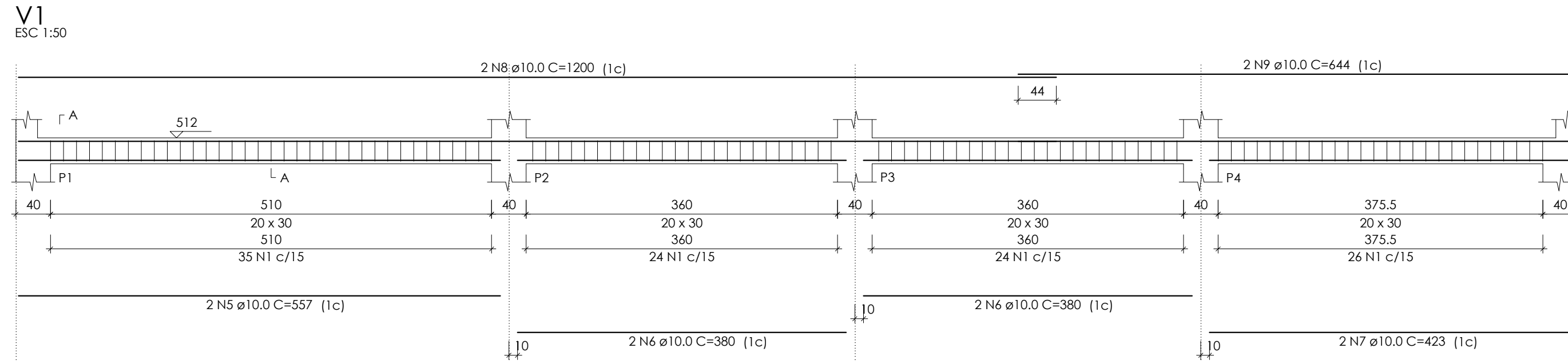


RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	1	5.0	454.1	38	280
CA60	2	5.0	495.5	1	16.1
CA50	3	5.0	495.5	1	16.1

PESO TOTAL (kg)
CA50 296.7
CA60 75.4
PESO TOTAL (kg)
CA50 296.7
CA60 75.4
Volume de concreto (C-25) = 7.70 m³
Área de forma = 108.72 m²

VIGAS TÉRREO



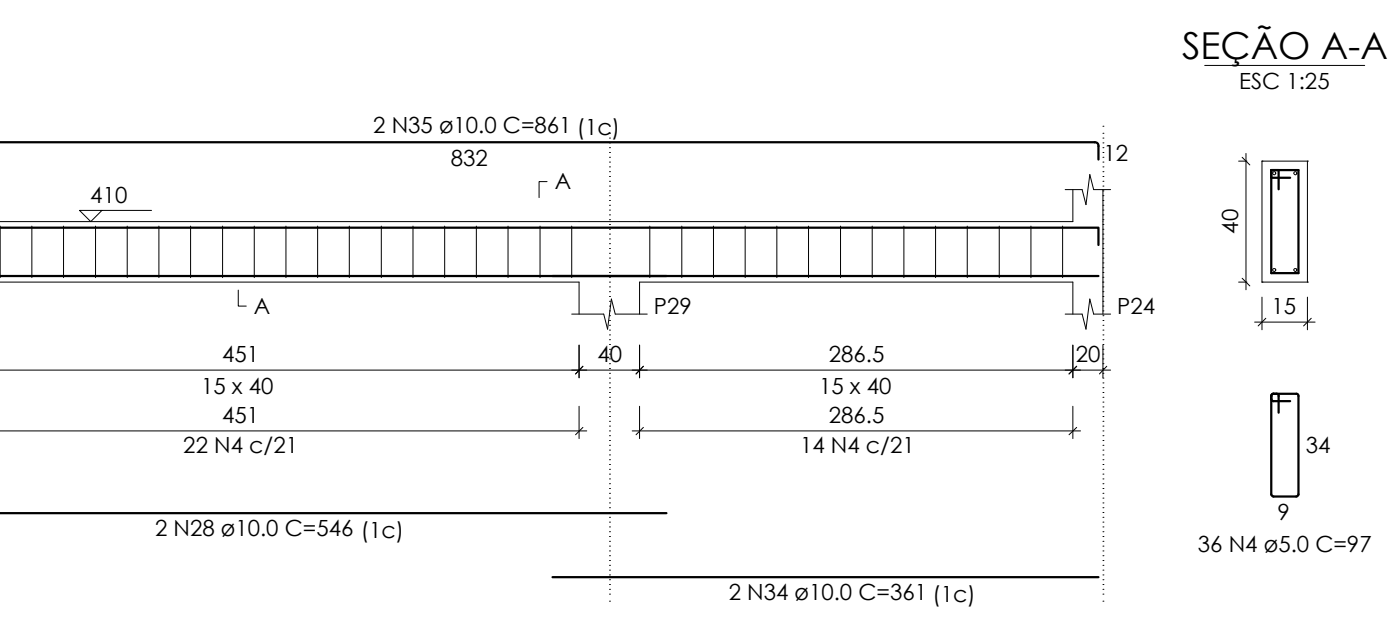
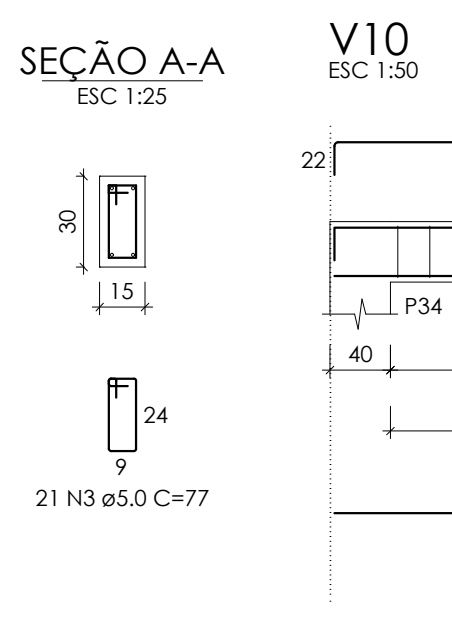
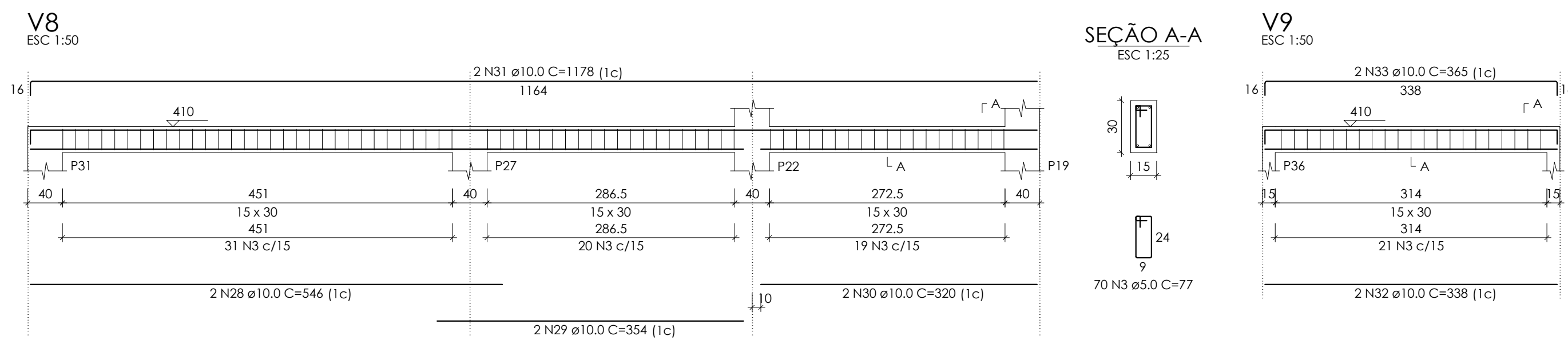
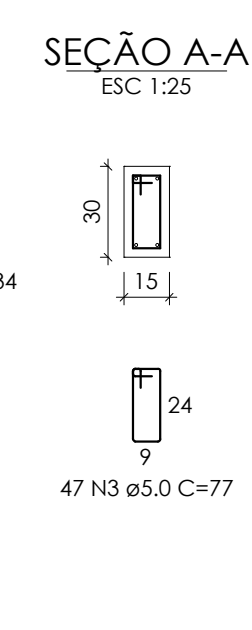
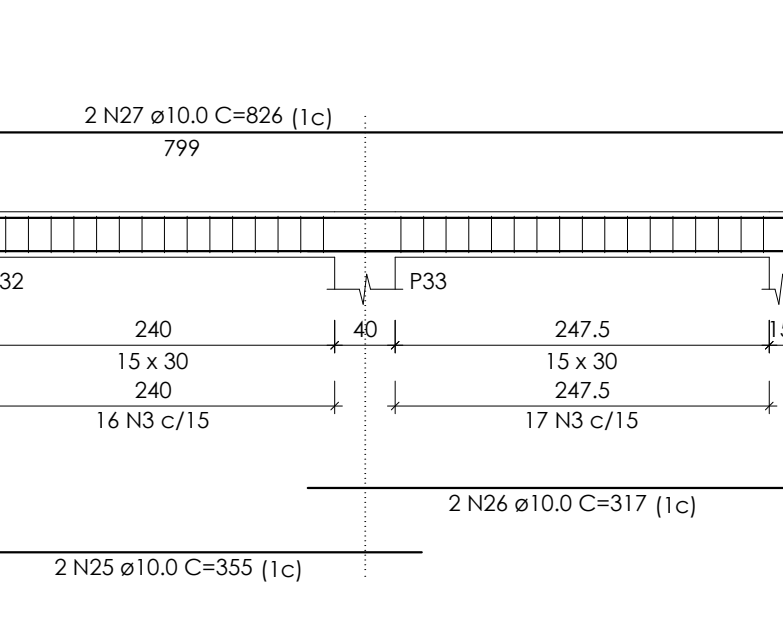
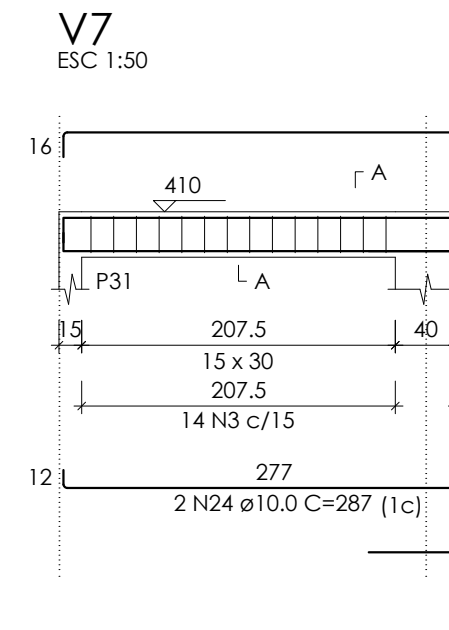
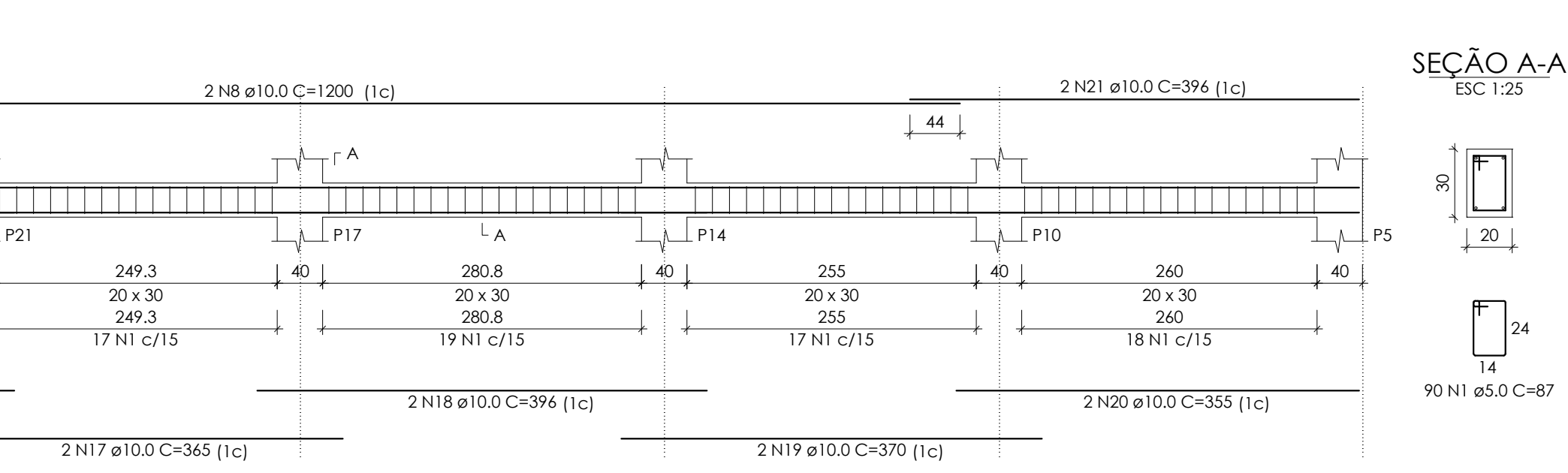
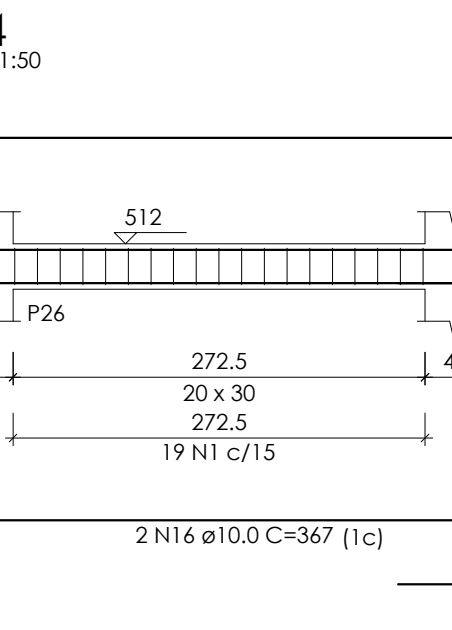
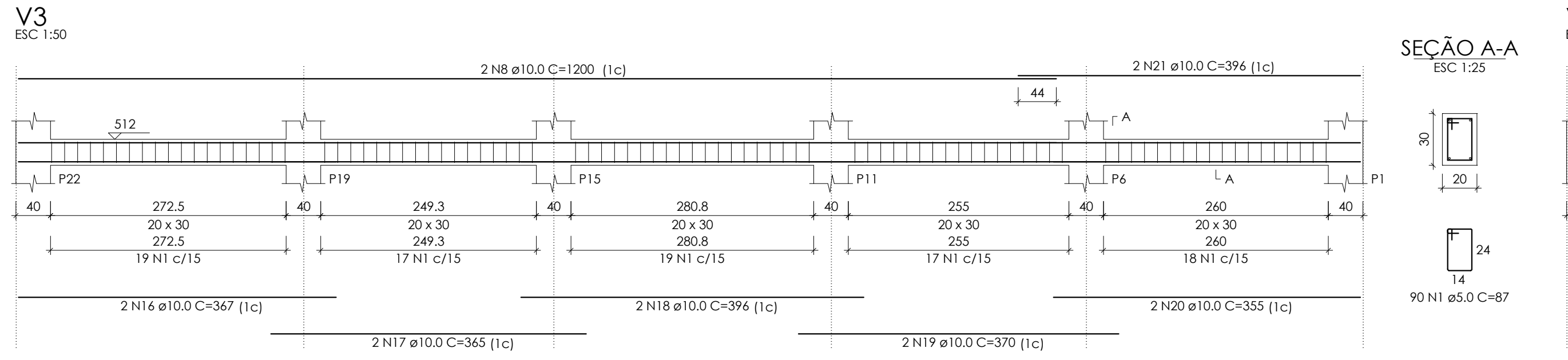
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	289	87	25143
	2	5.0	83	107	8871
	3	5.0	166	77	12782
	4	5.0	36	97	3492
	5	10.0	2	557	1114
	6	10.0	2	380	760
	7	10.0	2	423	846
	8	10.0	2	1000	2000
	9	10.0	2	644	1288
	10	10.0	2	501	1002
	11	10.0	2	428	856
	12	10.0	2	464	928
	13	10.0	2	498	996
	14	10.0	2	507	1014
	15	10.0	2	679	1358
	16	10.0	2	367	734
	17	10.0	4	385	1540
	18	10.0	2	396	792
	19	10.0	4	370	1480
	20	10.0	2	355	710
	21	10.0	4	394	1576
	22	10.0	2	299	598
	23	10.0	4	273	1092
	24	10.0	2	267	534
	25	10.0	2	335	670
	26	10.0	2	317	634
	27	10.0	2	826	1652
	28	10.0	2	546	1092
	29	10.0	2	354	708
	30	10.0	2	380	760
	31	10.0	2	1178	2356
	32	10.0	2	380	760
	33	10.0	2	365	730
	34	10.0	2	361	722
	35	10.0	2	861	1722

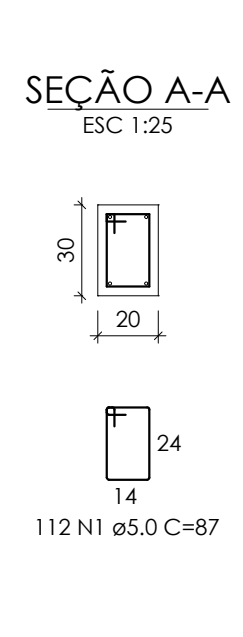
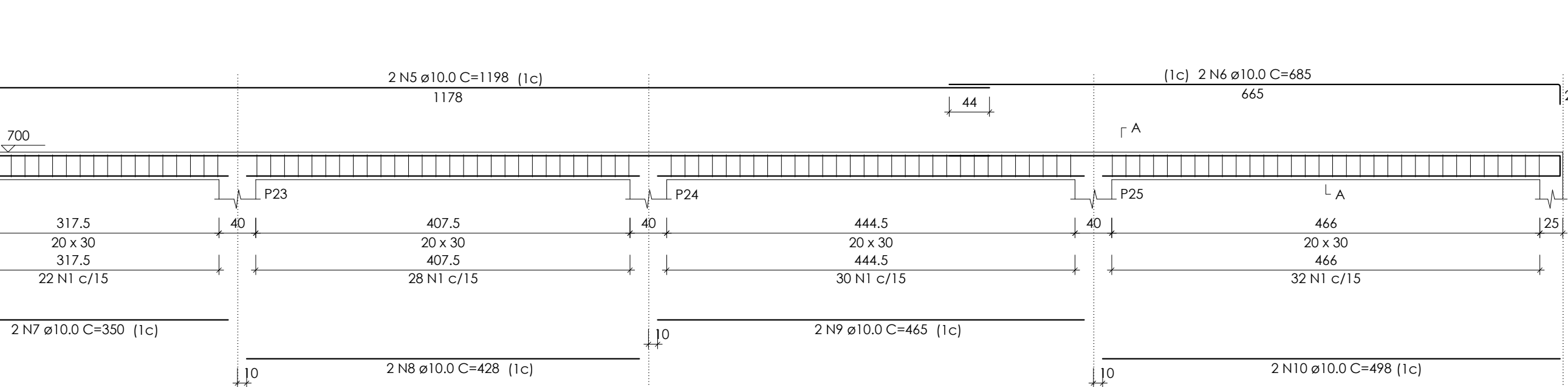
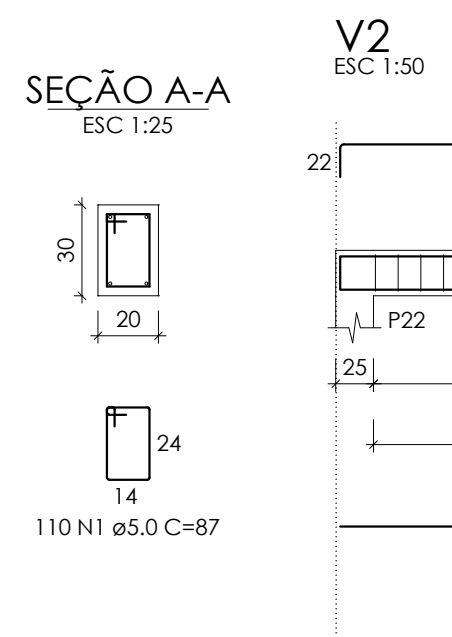
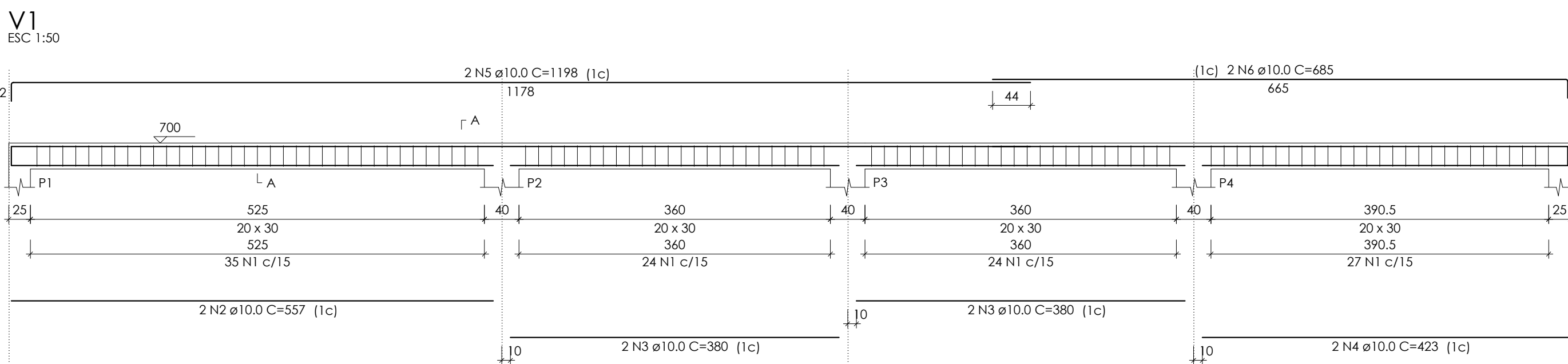
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA60	1	5.0	434.1	37	249
CA50	2	5.0	503	1	77.5
CA50	3	5.0	503	1	77.5

PESO TOTAL (kg)
CA50 269
CA60 77.5
Volume de concreto (C-25) = 6.18 m³
Área de forma = 86.74 m²



VIGAS APOIO TESOURAS



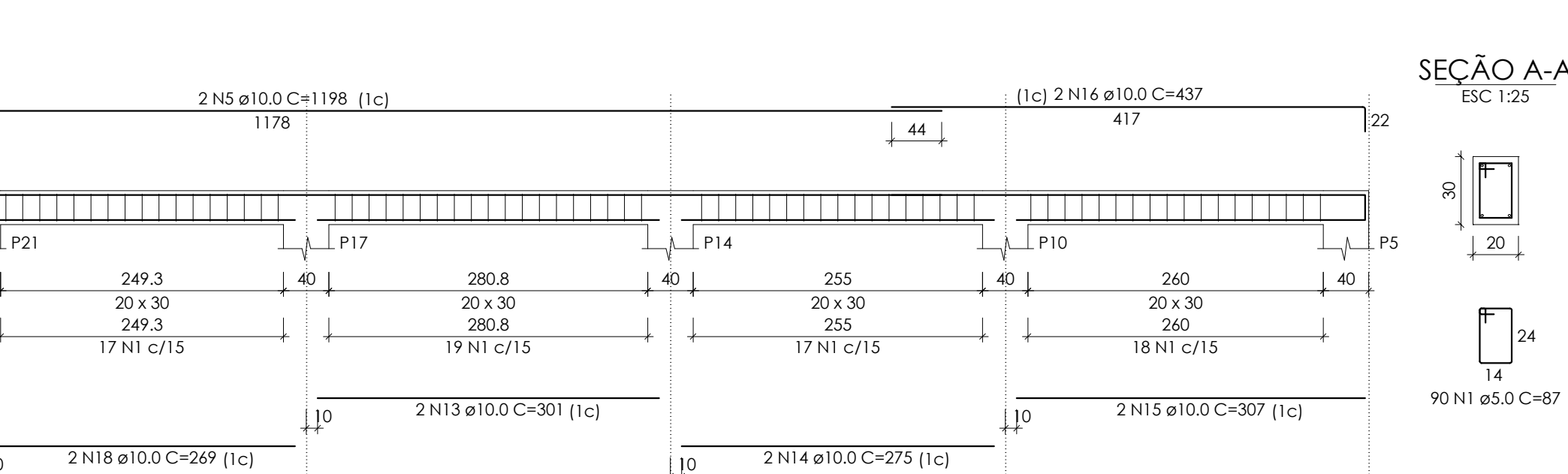
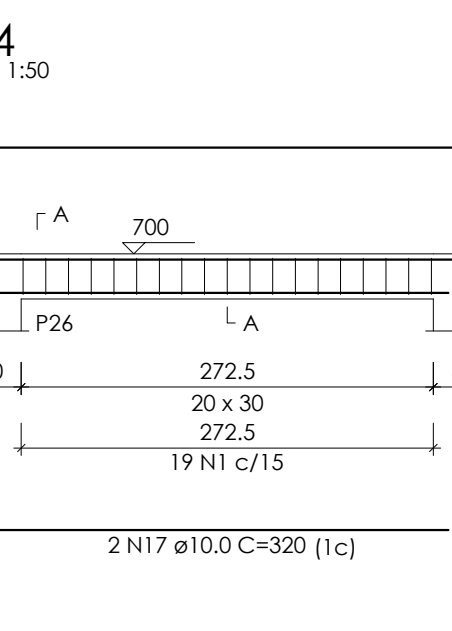
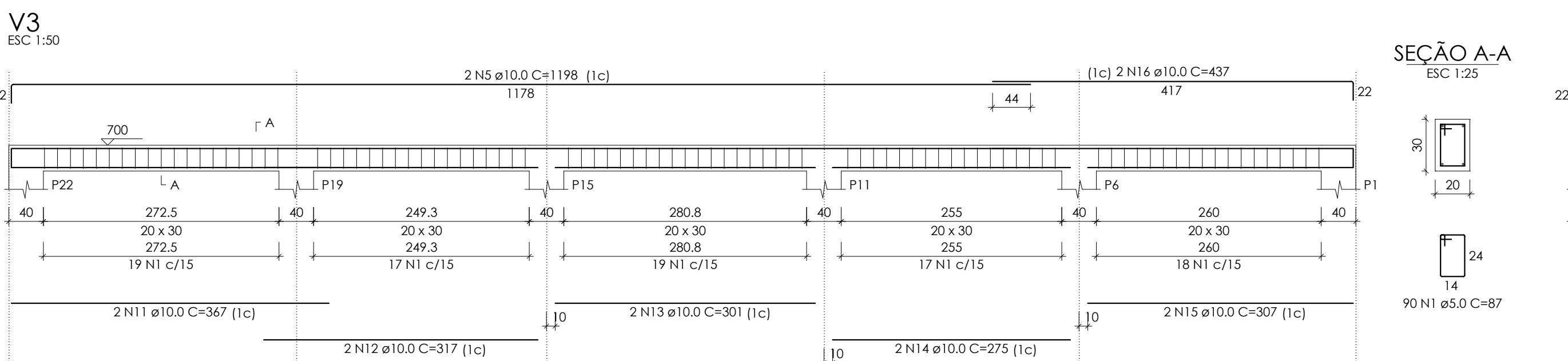
RELAÇÃO DO AÇO

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	402	87	34974
CA50	2	10.0	2	537	1114
	3	10.0	4	380	1520
	4	10.0	2	403	806
	5	10.0	8	1198	9584
	6	10.0	4	485	1940
	7	10.0	2	350	700
	8	10.0	2	468	936
	9	10.0	2	445	890
	10	10.0	2	498	996
	11	10.0	2	367	734
	12	10.0	2	317	634
	13	10.0	4	201	804
	14	10.0	4	275	1100
	15	10.0	4	307	1228
	16	10.0	2	437	874
	17	10.0	2	320	640
	18	10.0	2	269	538

RESUMO DO AÇO

ACO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CA50	10.0	271.1	23	167.2
CA60	5.0	349.7	23	53.9

PESO TOTAL (kg)
CA50 167.2
CA60 53.9
Volume de concreto (C-25) = 4.04 m³
Área de forma = 53.81 m²



VIGAS COBERTURA

NOTAS TÉCNICAS:
TODOS OS DADOS EMPUJADOS ESTÃO CONJUNTO COM A PLANILHA ORÇAMENTÁRIA E O MEMORIAL DESCRITO ANEXO EM PROJETO

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+5531 3292.1313 / 3247.0029 / 3247.0067 / 3247.0009
www.geoline.com.br/geoline@geoline.com.br

CLÍNICA DE FISIOTERAPIA

PROPRIETÁRIO: Prefeitura Municipal de Mário Campos
ENDEREÇO: R. Vés mñãos, 363, Bairro Com Jardim
MUNICÍPIO - UF: Mário Campos - MG

Prefeitura Municipal de Mário Campos
Engº Charston Sausa Pereira - CREA/AMG: 68.218/D

PROJETA: Marcus Getulino
DESENHA: Marcus Getulino
REVISO: Vinícius Alexandre
COORDENAÇÃO: Karolína Correa

PROJETO ESTRUTURAL

VIGAS
TÉRREO, APOIO TESOURA E COBERTURA

REVISÃO: R-00
DATA EMISSÃO: MAIO/2020
ESCALA: INDICADA
FÓRMO: AO
PRANCHETA: 01/02

EST