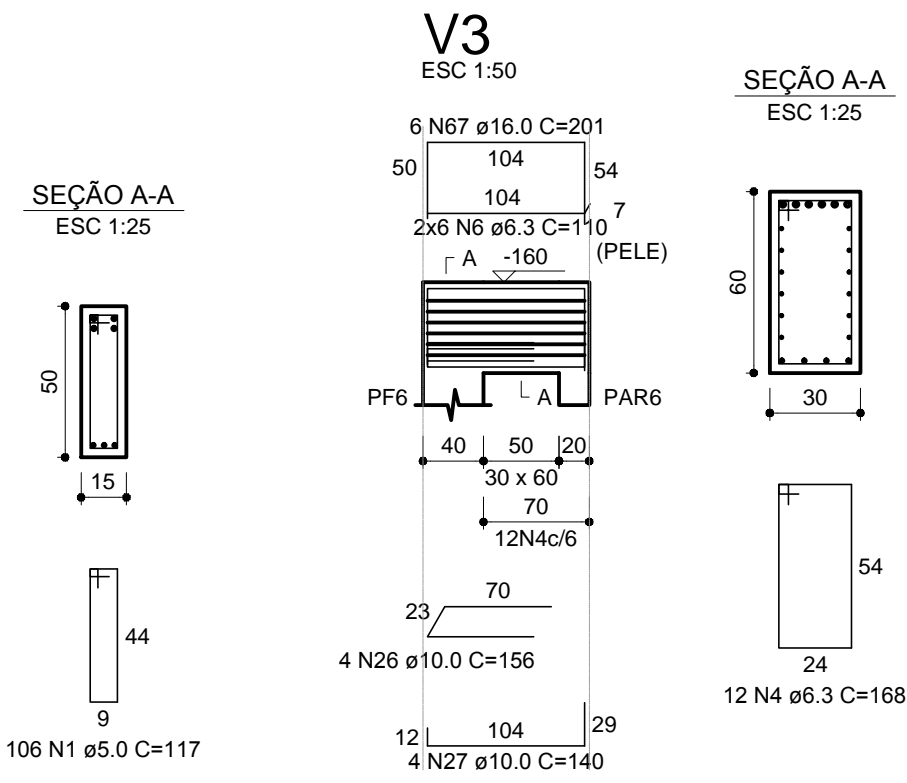
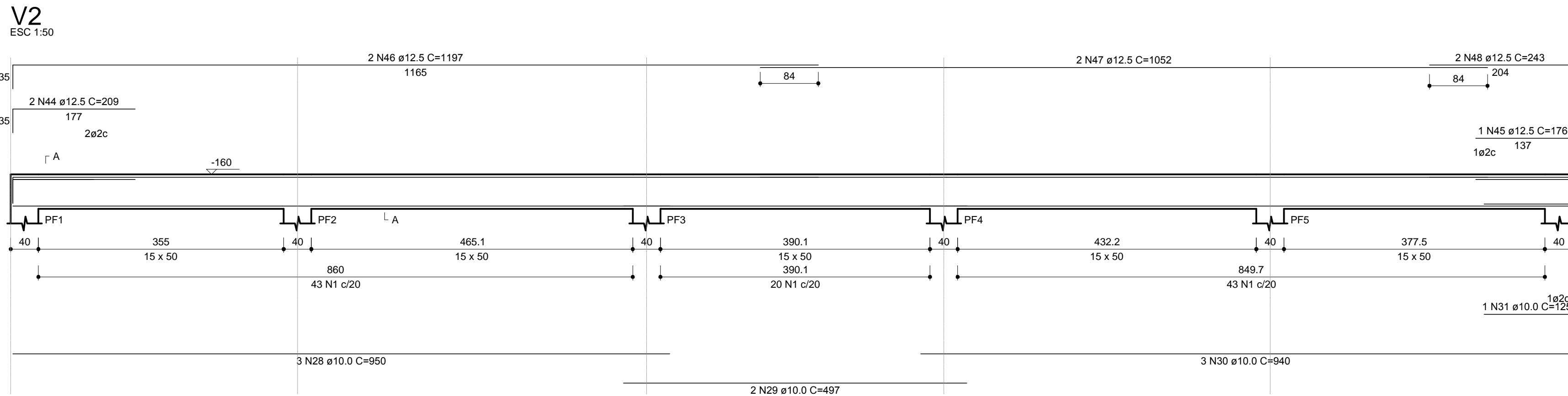
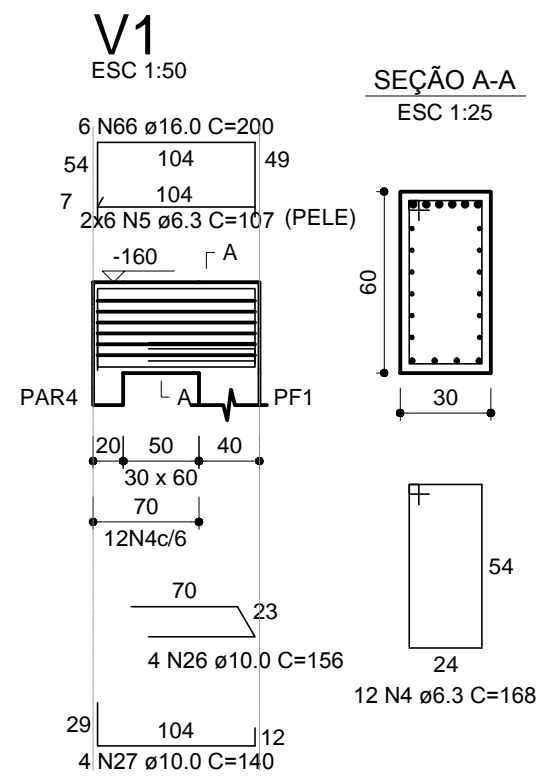


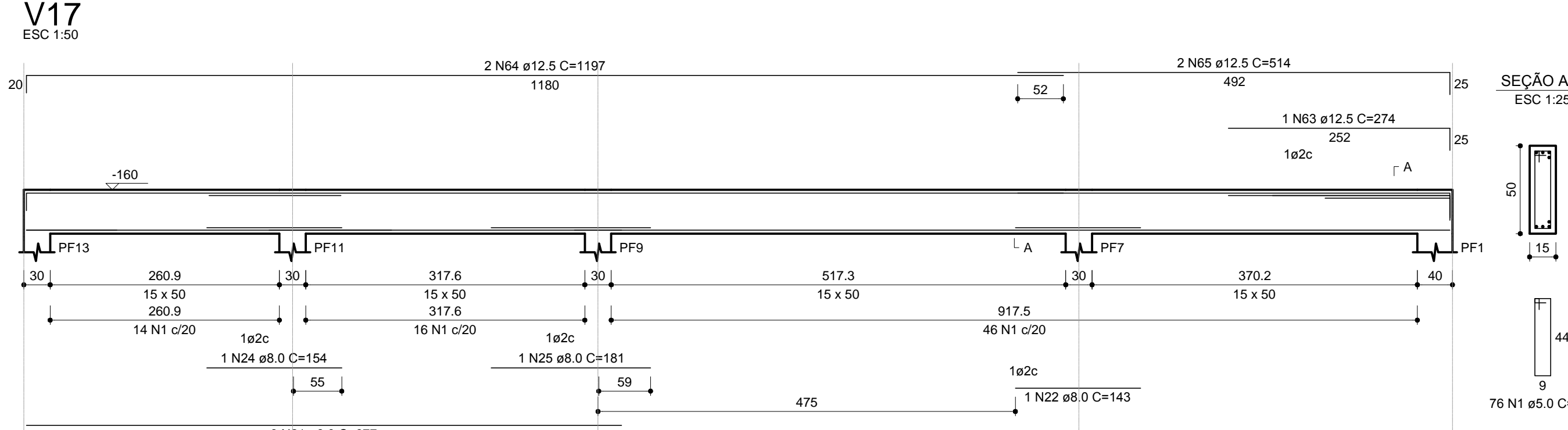
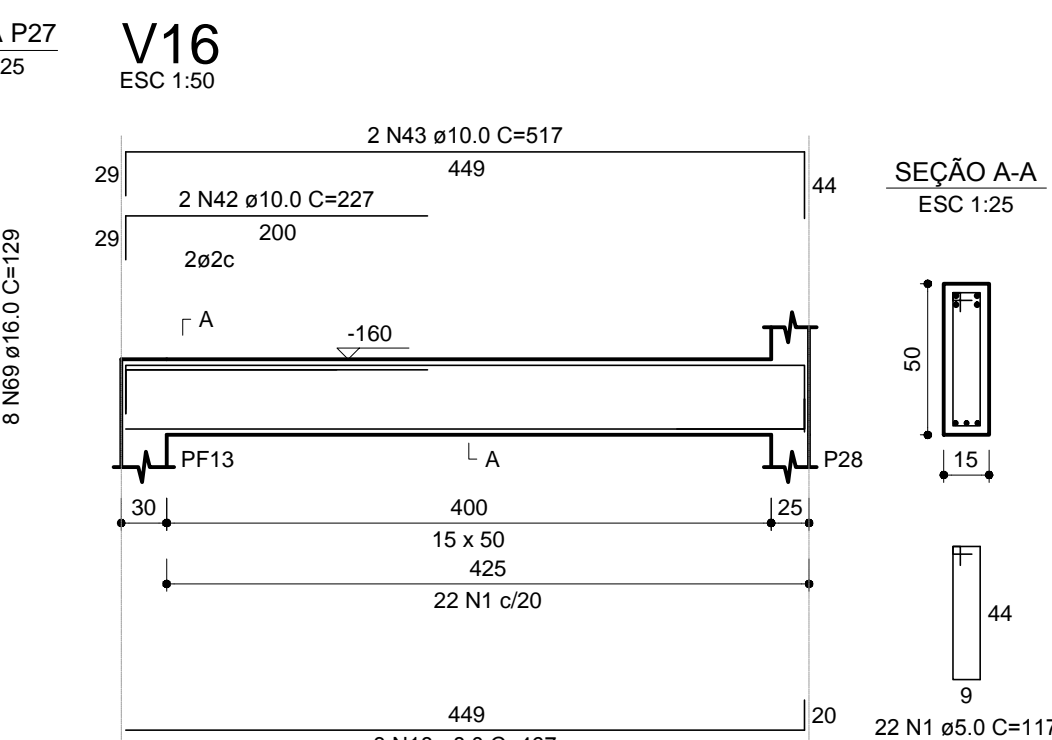
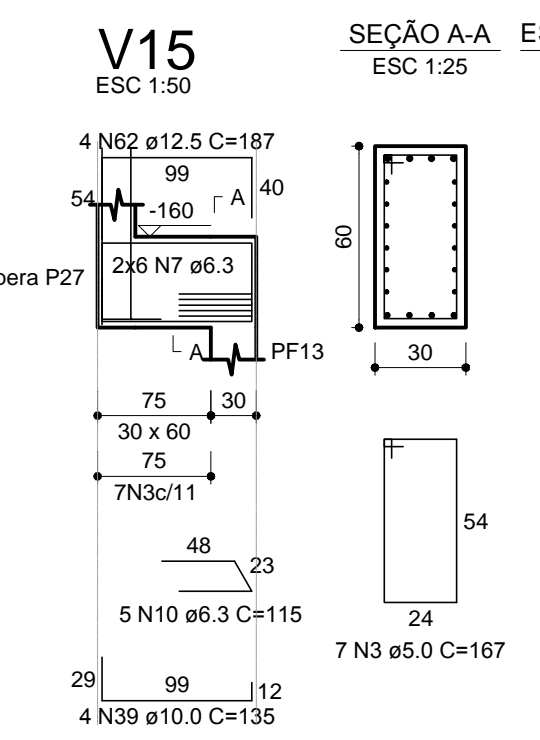
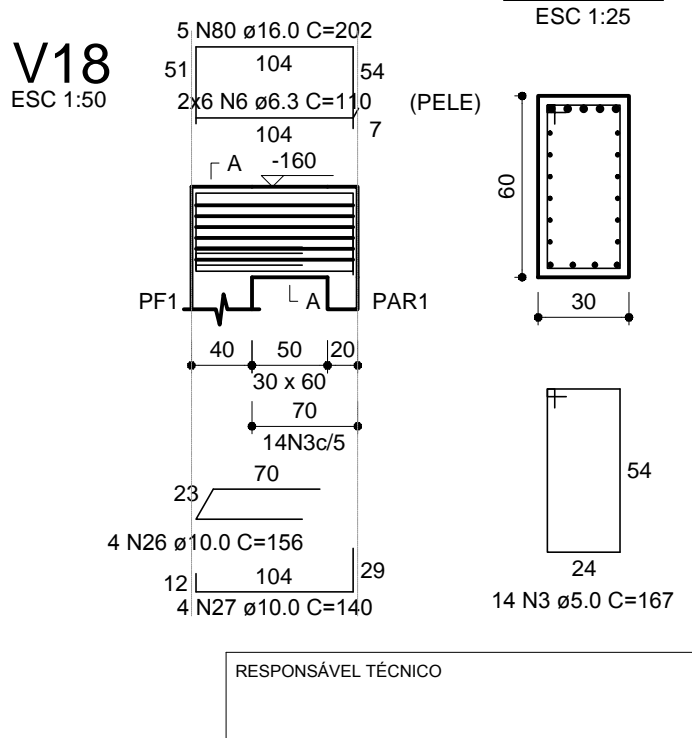
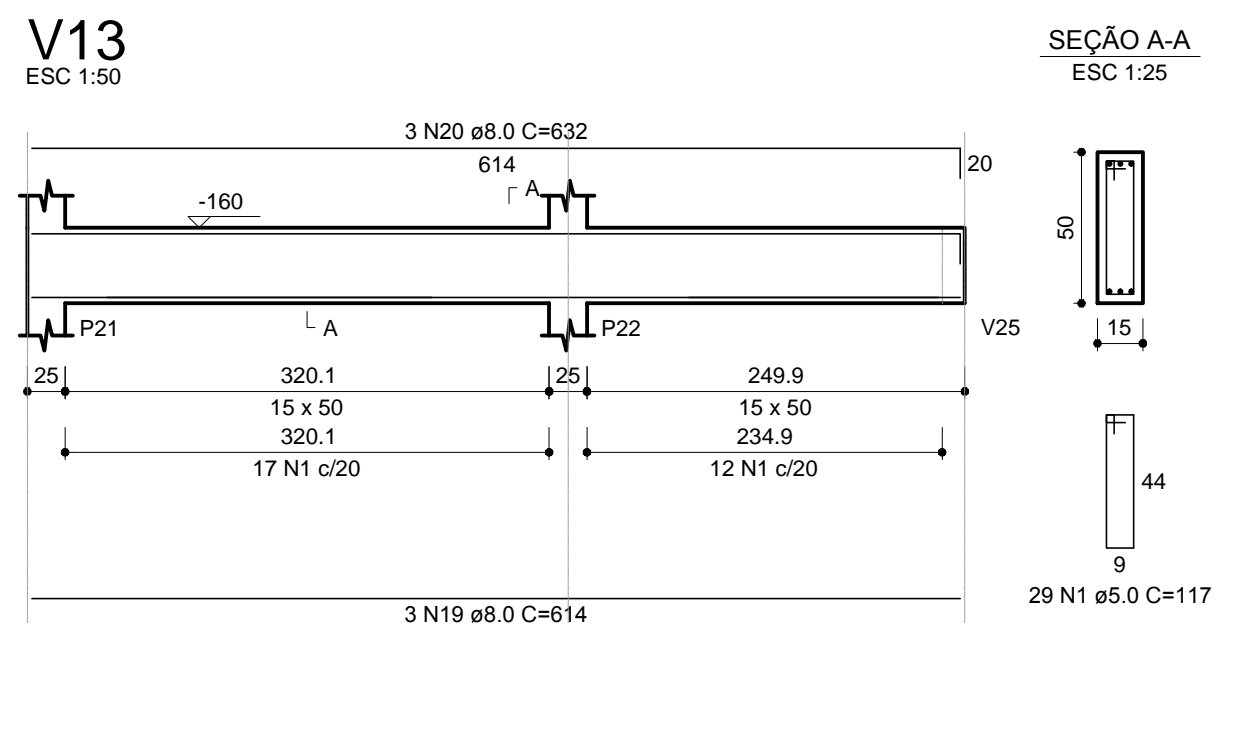
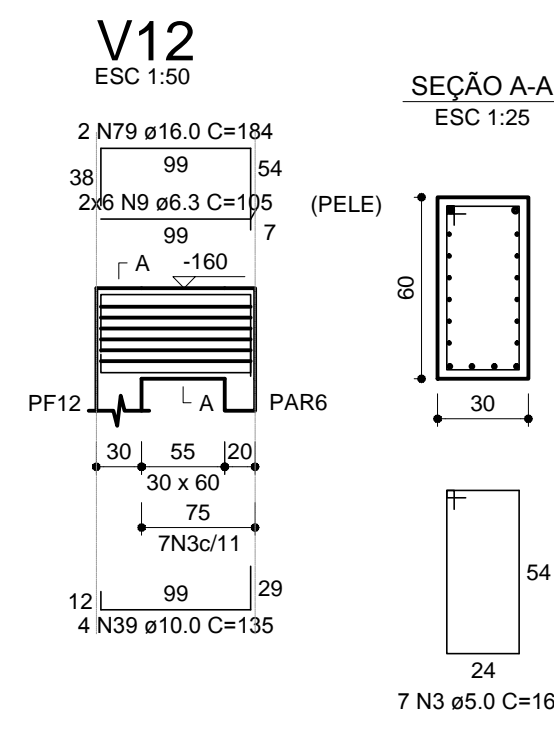
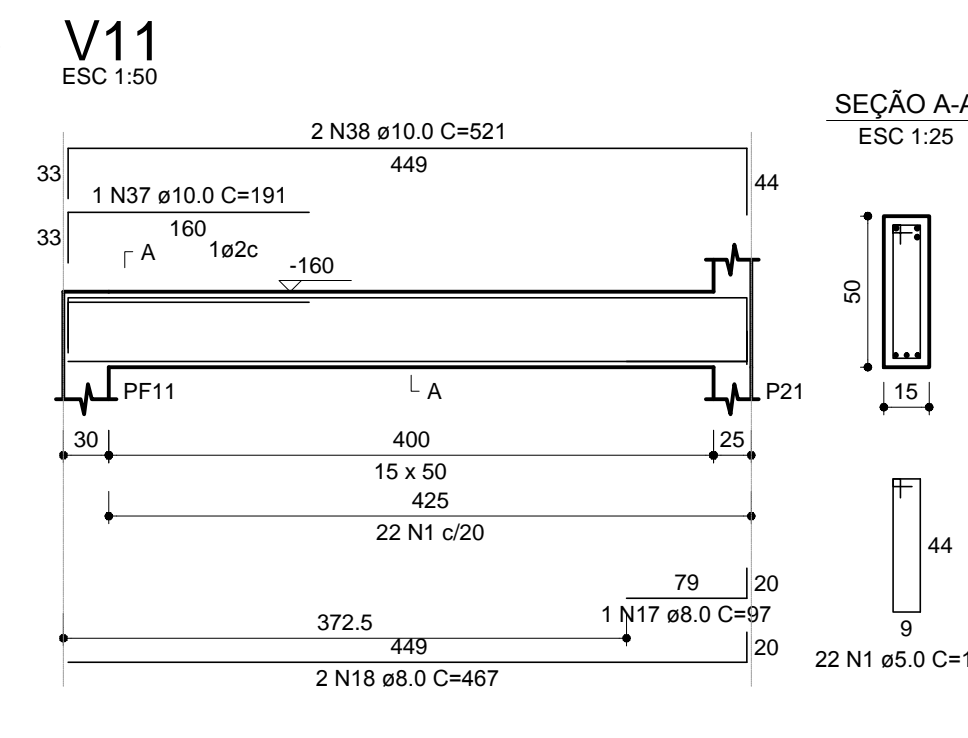
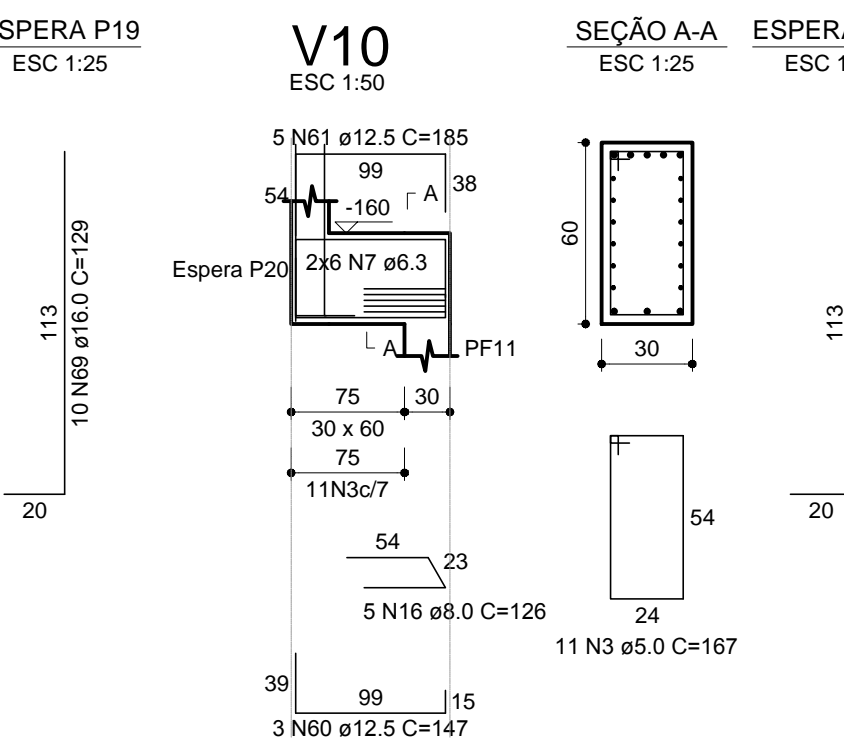
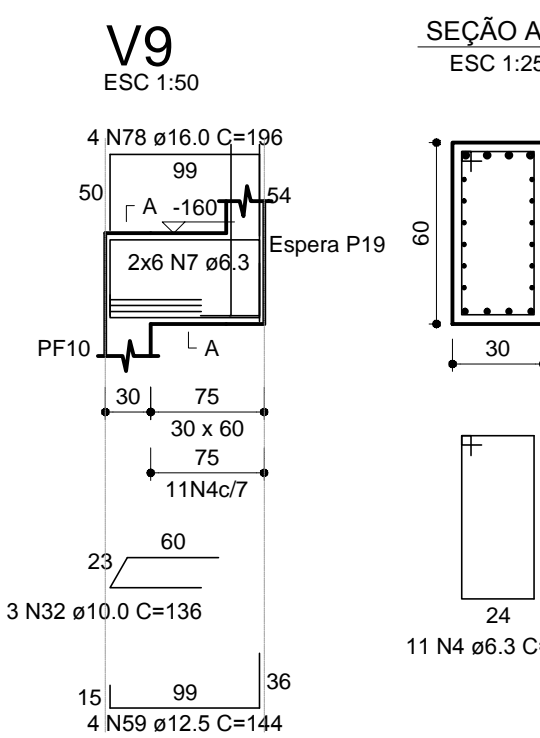
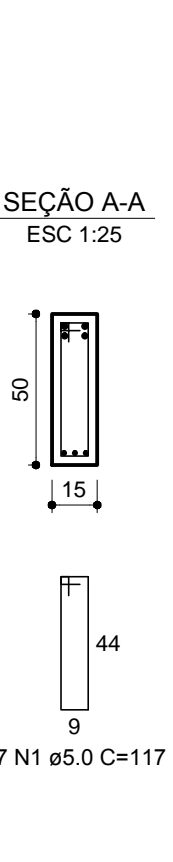
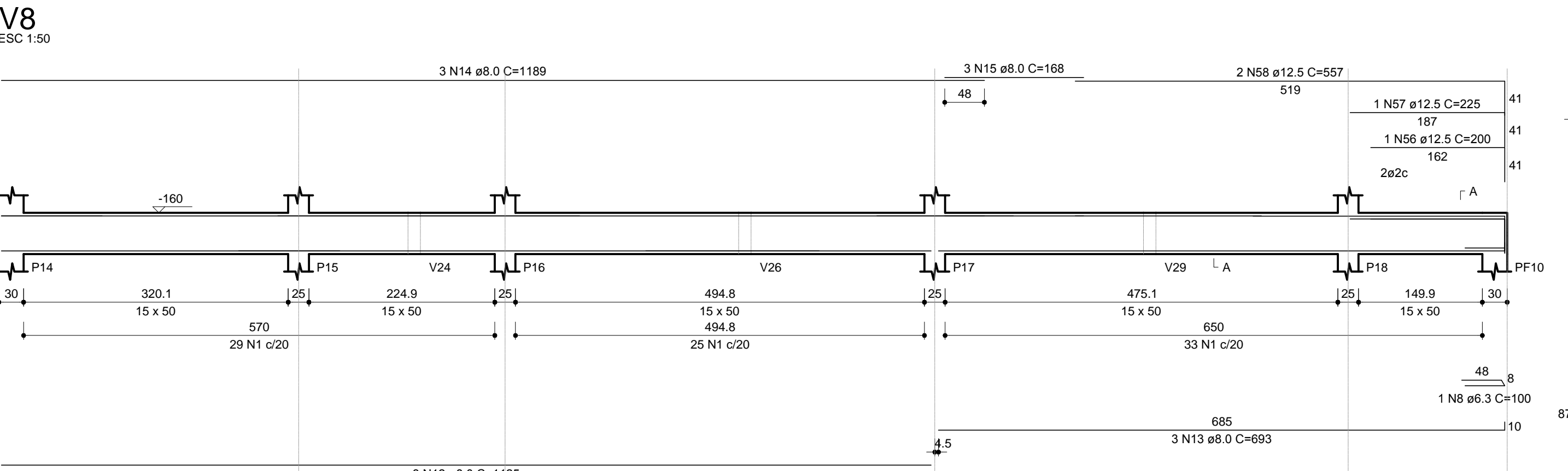
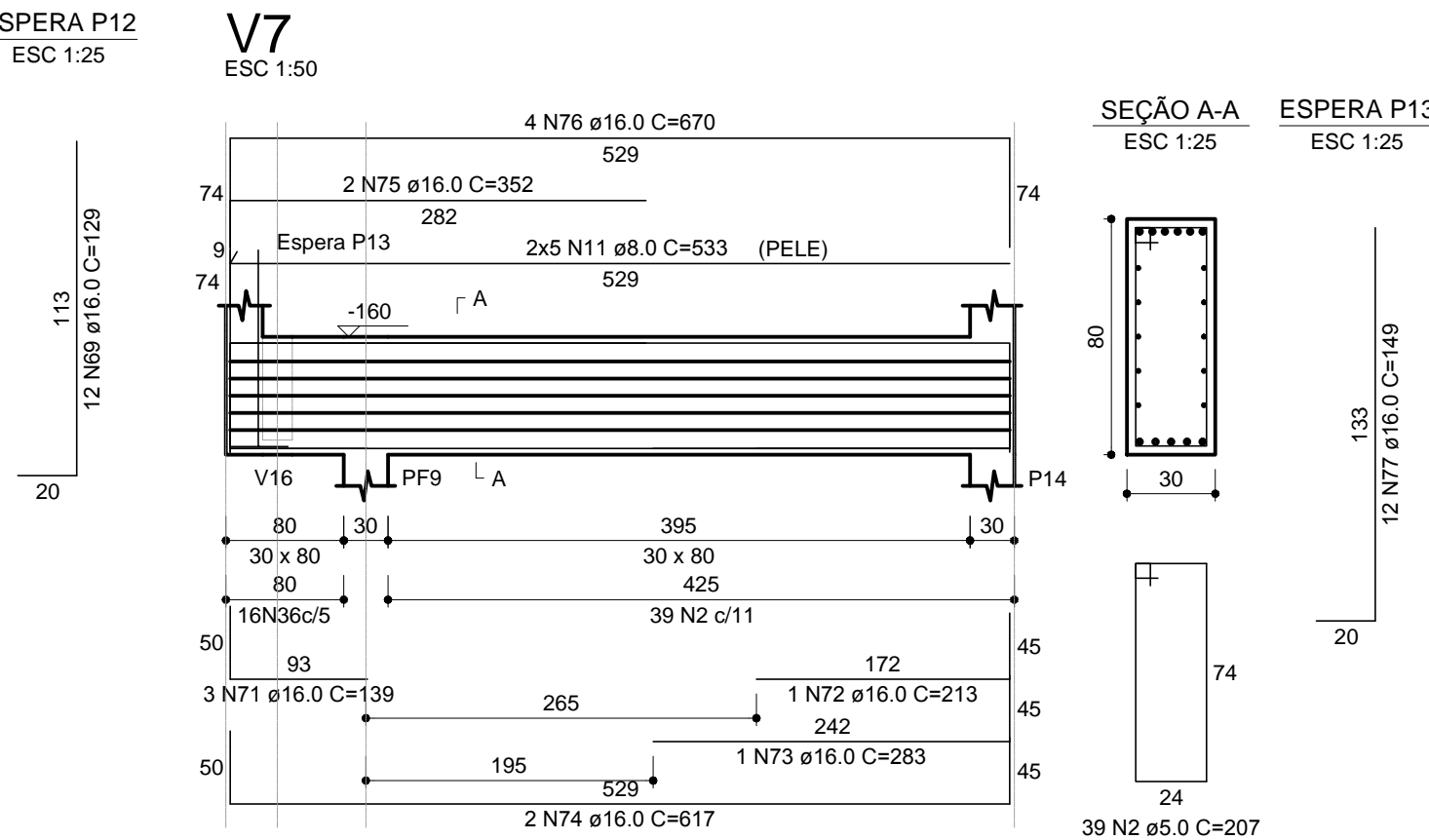
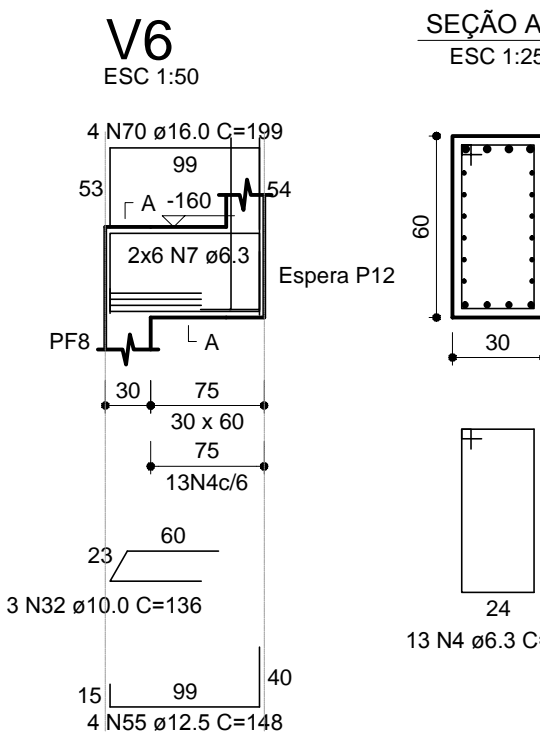
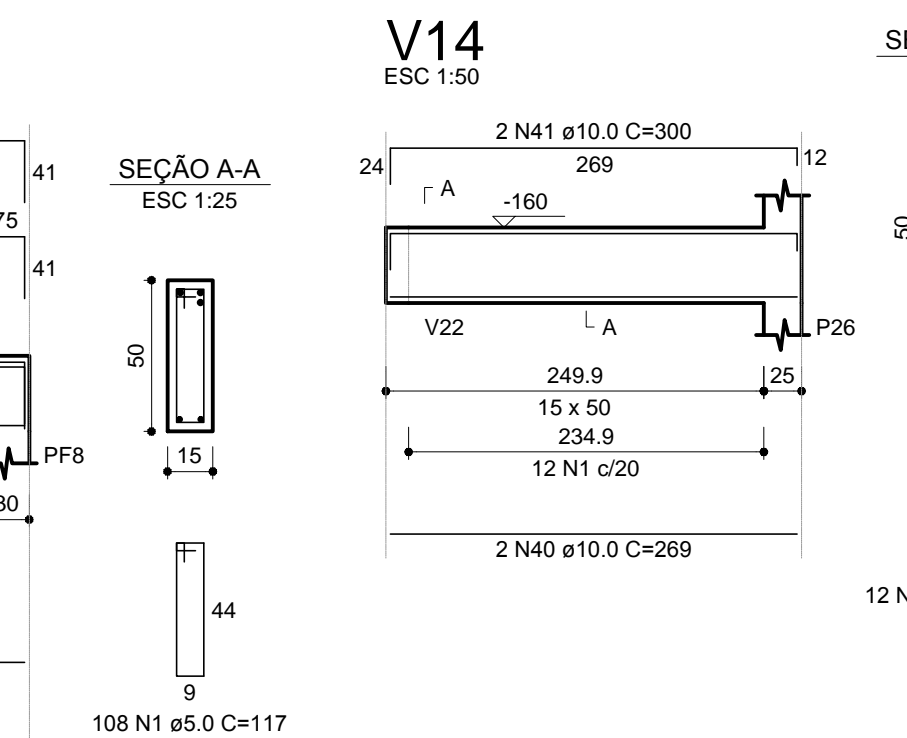
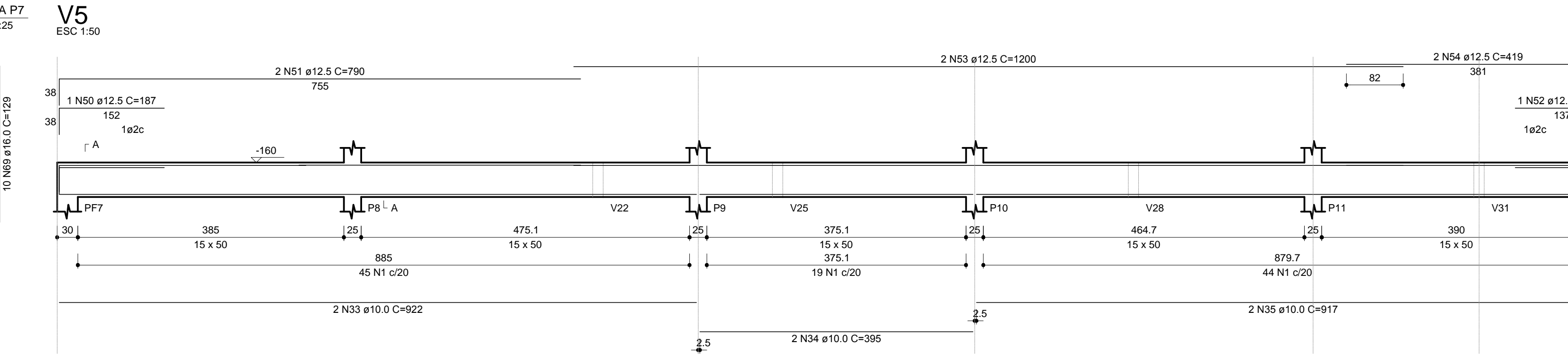
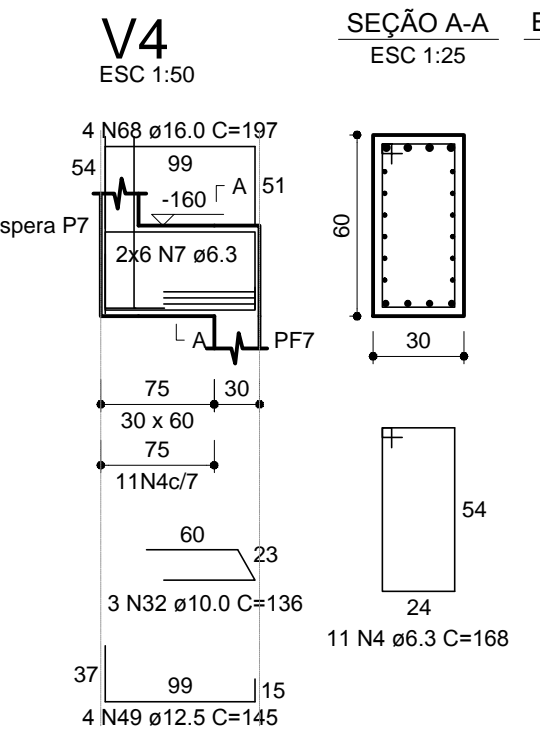
# VIGAS SUBSOLO 01/02 (Nv. Ref. -1.60)

ESCALA 1:50



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	462	117	54054
CA50	2	5.0	39	207	8073
	3	5.0	39	167	6513
	4	6.3	59	168	9912
	5	6.3	12	107	1284
	6	6.3	24	110	2640
	7	6.3	60	corr	5940
	8	6.3	1	100	100
	9	6.3	12	105	1260
	10	6.3	5	115	575
	11	8.0	10	533	5330
	12	8.0	3	1125	3375
	13	8.0	3	693	2079
	14	8.0	3	1189	3567
	15	8.0	3	168	504
	16	8.0	5	126	630
	17	8.0	1	97	97
	18	8.0	5	467	2335
	19	8.0	3	614	1842
	20	8.0	3	632	1896
	21	8.0	3	677	2031
	22	8.0	1	143	143
	23	8.0	3	986	2958
	24	8.0	1	154	154
	25	8.0	1	181	181
	26	10.0	12	156	1872
	27	10.0	12	140	1680
	28	10.0	3	950	2850
	29	10.0	2	497	994
	30	10.0	3	940	2820
	31	10.0	1	125	125
	32	10.0	9	136	1224
	33	10.0	2	922	1844
	34	10.0	2	395	790
	35	10.0	2	917	1834
	36	10.0	16	209	3344
	37	10.0	1	191	191
	38	10.0	2	521	1042
	39	10.0	8	135	1080
	40	10.0	2	269	538
	41	10.0	2	300	600
	42	10.0	2	227	454
	43	10.0	2	517	1034
	44	12.5	2	209	418
	45	12.5	1	176	176
	46	12.5	2	1197	2394
	47	12.5	2	1052	2104
	48	12.5	2	243	486
	49	12.5	4	145	580
	50	12.5	1	187	187
	51	12.5	2	790	1580
	52	12.5	1	175	175
	53	12.5	2	1200	2400
	54	12.5	2	419	838
	55	12.5	4	148	592
	56	12.5	1	200	200
	57	12.5	1	225	225
	58	12.5	2	557	1114
	59	12.5	4	144	576
	60	12.5	3	147	441
	61	12.5	5	185	925
	62	12.5	4	187	748
	63	12.5	1	274	274
	64	12.5	2	1197	2394
	65	12.5	2	514	1028
	66	16.0	6	200	1200
	67	16.0	6	201	1206
	68	16.0	4	197	788
	69	16.0	50	129	6450
	70	16.0	4	199	796
	71	16.0	3	139	417
	72	16.0	1	213	213
	73	16.0	1	283	283
	74	16.0	2	617	1234
	75	16.0	2	352	704
	76	16.0	4	670	2680
	77	16.0	12	149	1788
	78	16.0	4	196	784
	79	16.0	2	184	368
	80	16.0	5	202	1010



RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	217.1	58.4
	8.0	271.5	117.9
	10.0	243.2	164.9
	12.5	198.6	210.4
	16.0	199.2	345.9
CA60	5.0	686.4	116.4
PESO TOTAL (kg)			
CA50		897.5	
CA60		116.4	

Volume de concreto (C-30) = 10.34 m³  
Área de forma = 136.86 m²

RESPONSÁVEL TÉCNICO		PROPRIETÁRIO	
DATA	REVISÃO	DISCRIMINAÇÃO	
05/2018	REV002	RECUE DA RAMPA E TORRE DA ESCADA / ELEVADOR	
05/2018	REV001	ALTERAÇÃO FUNDAÇÃO / ESTACAS	
05/2018	REV000	PARTIDO INICIAL	
PROPRIETÁRIO			
<b>INTERBLU</b> OBRA LOCAL RUA 2300 CENTRO BALNEÁRIO CAMBORIÚ - SC TÍTULO VIGAS SUBSOLO 01/02 (Nv. Ref. -1.60)			
RESPONSÁVEL TÉCNICO		PROJETO	
<b>ANDRÉ VINICIUS PAVANELLO</b> ENG CIVIL CREA/SC 136749-3		EST	
GUSTAVO ZIMMERMANN, 1025 - ITUPORANGA CENTRAL - BLUMENAU/SC FONE: (047) 99138238 e-mail: otto.engenharia@outlook.com		ESCALA	
		IND.	
		DATA	
		28/05/2018	
É mandatório o perfeito entendimento dos projetos antes de sua execução, em caso de dúvida consulte o autor. DIREITOS AUTORAIS RESERVADOS - Decreto Federal nº23.569 de 11/12/203. - Lei Federal nº5.194 de 24/12/1966. - Lei Federal nº5.988/73 e Lei Federal nº5.810/98. (Regulamentam o Direito Autoral) - Resolução nº255 de 30/12/70 do CONFEA. (Eltica Profissional) - Resolução nº19 de 29/06/73 do CONFEA. (Atividades Profissionais).			