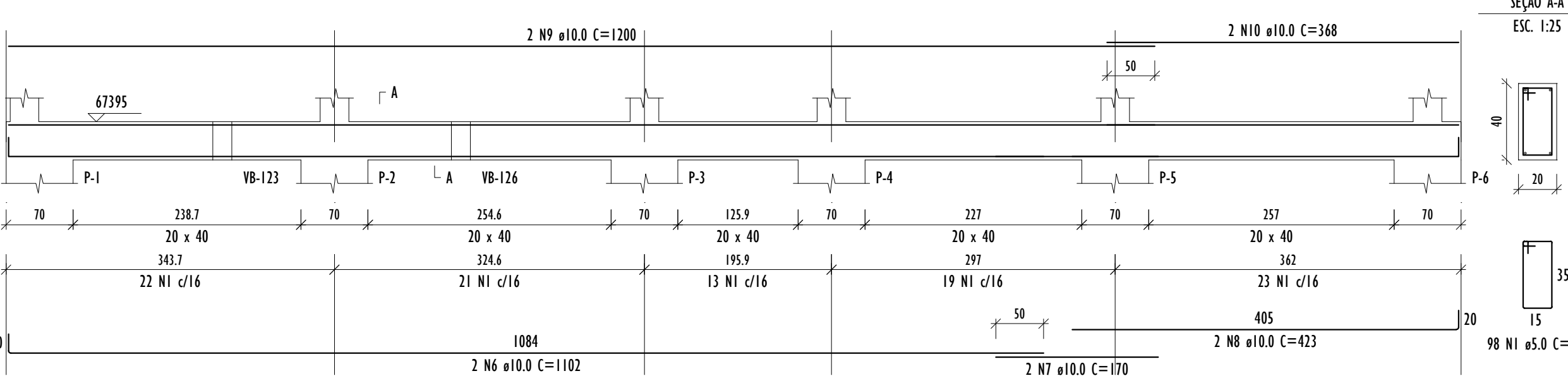
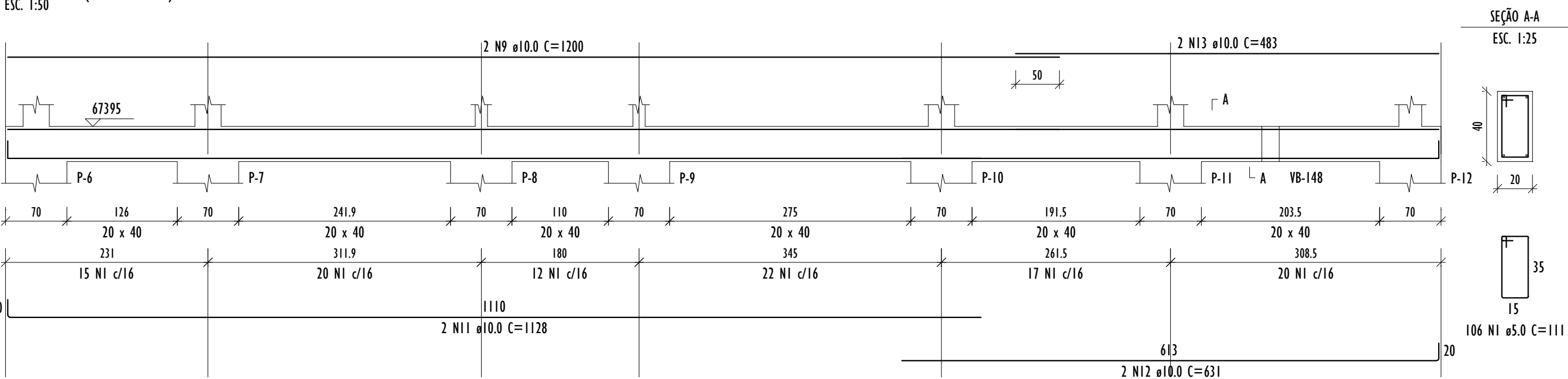


PROJETO ESTRUTURAL - UBS VALADARES

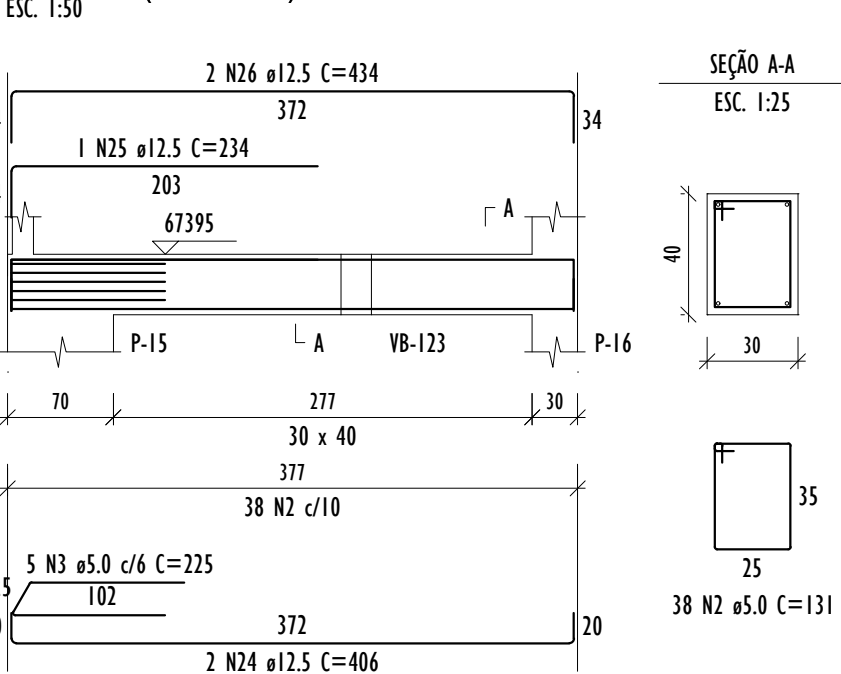
VB-101 (20 x 40)



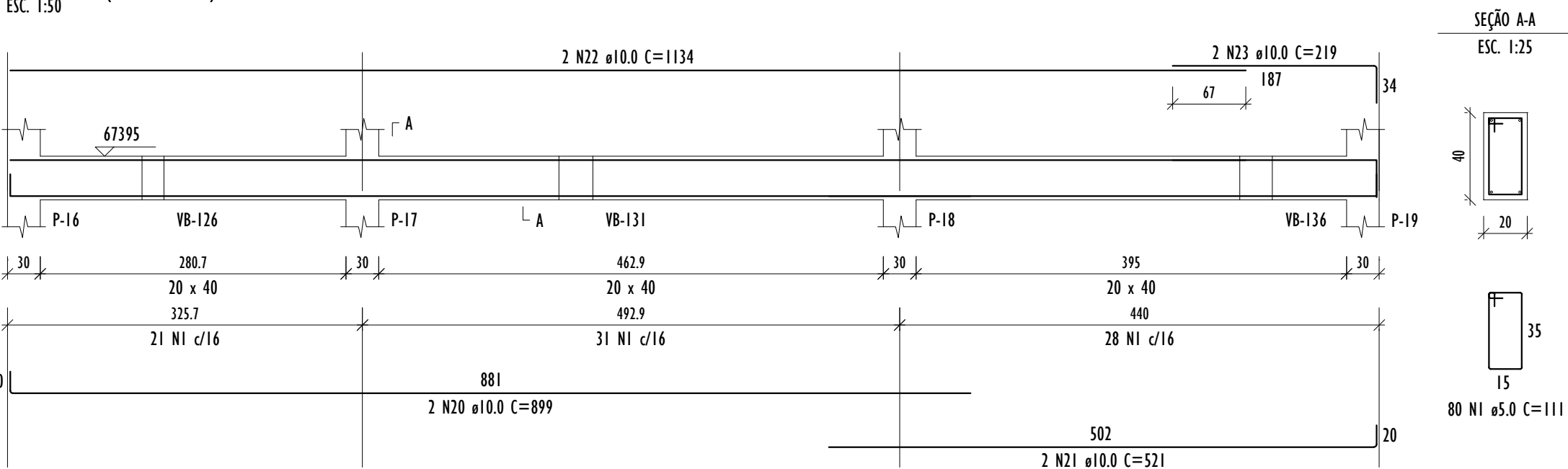
VB-102 (20 x 40)



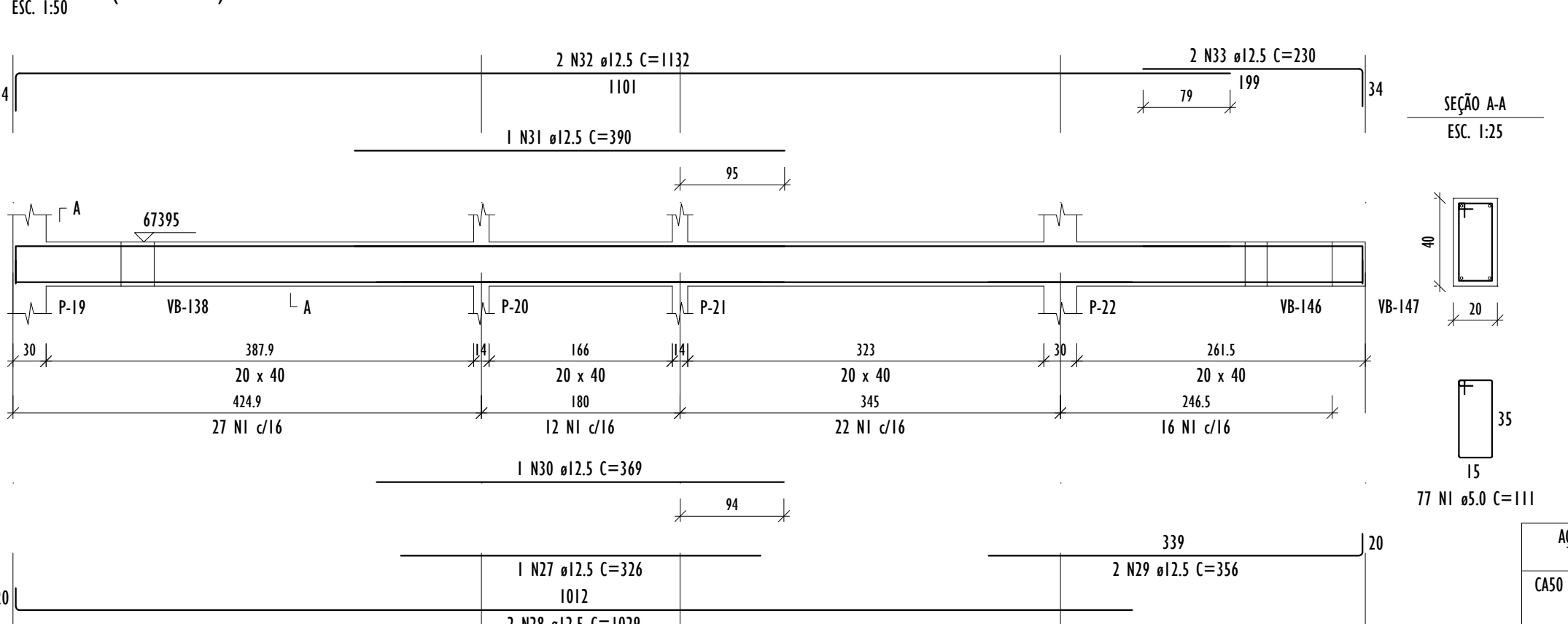
VB-106 (30 x 40)



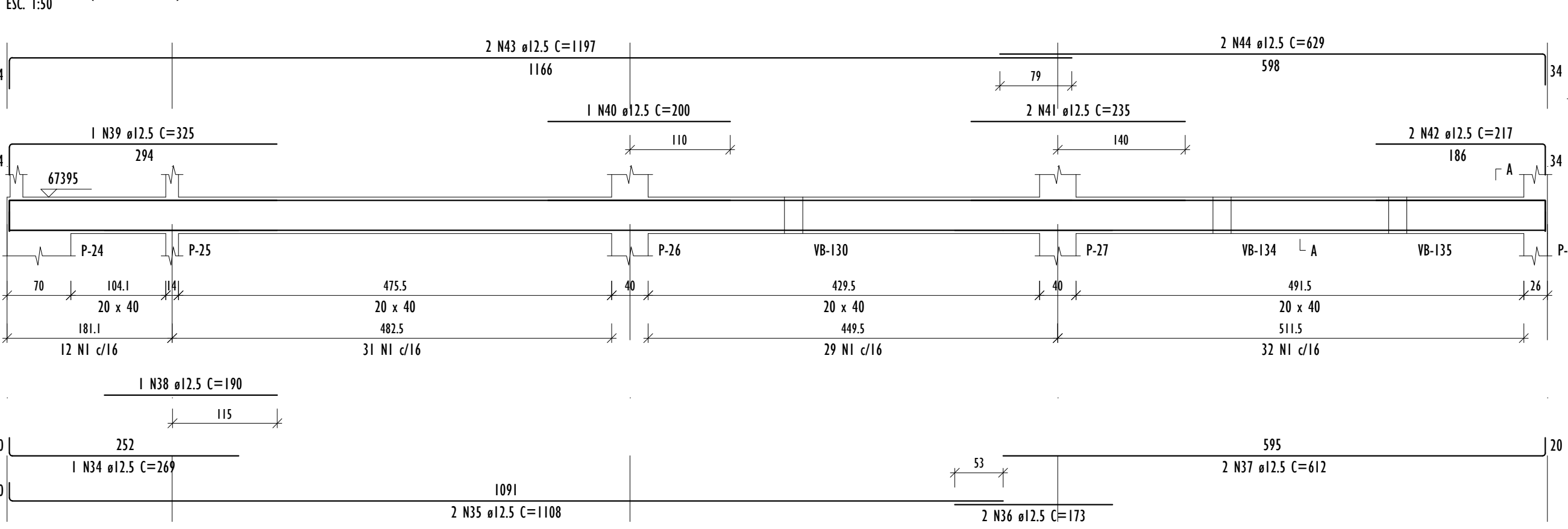
VB-107 (20 x 40)



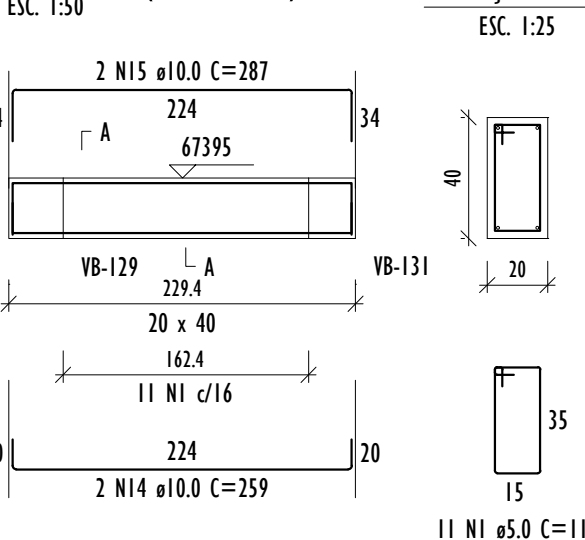
VB-108 (20 x 40)



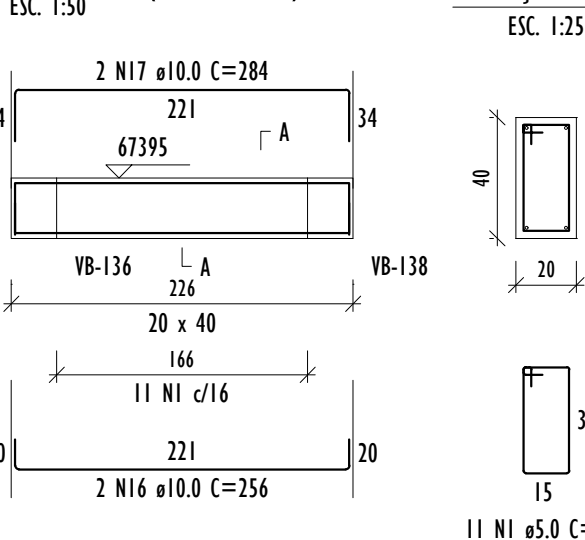
VB-109 (20 x 40)



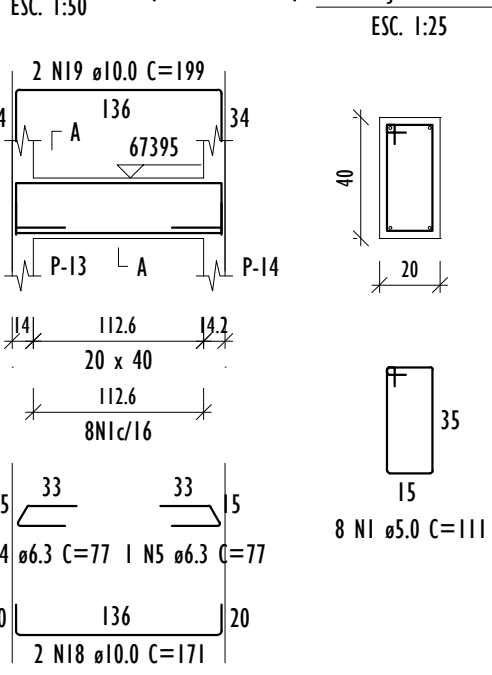
VB-103 (20 x 40)



VB-104 (20 x 40)



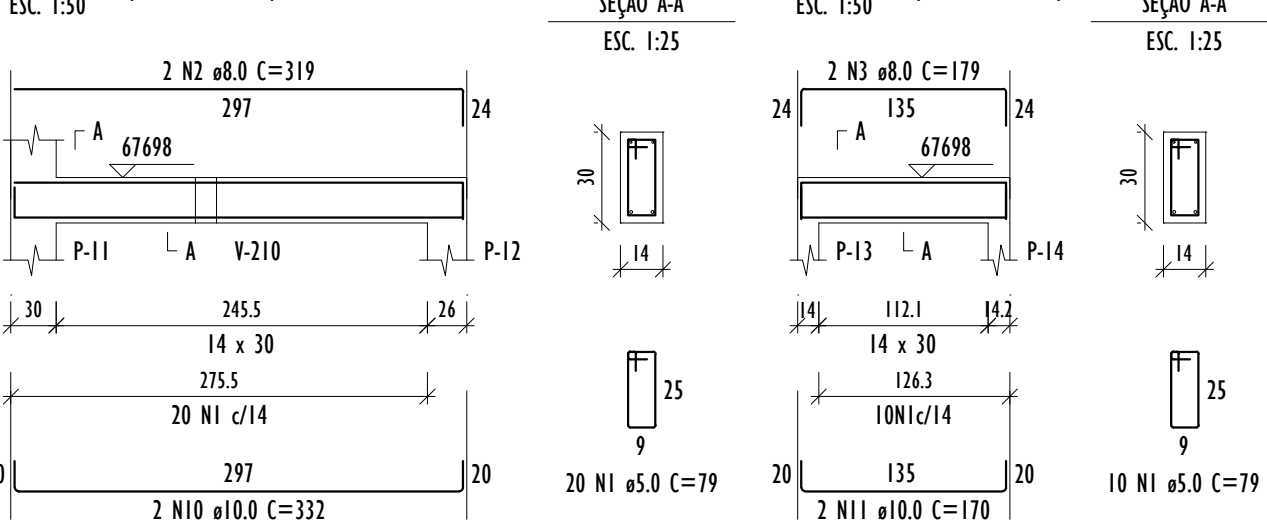
VB-105 (20 x 40)



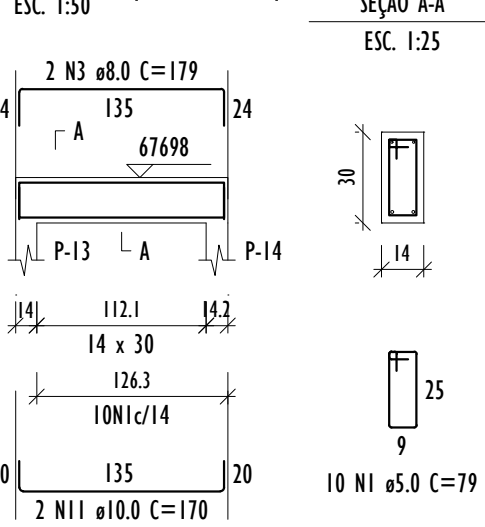
DETALHAMENTO DE VIGAS (NÍVEL 673.95)

ESCALA INDICADA

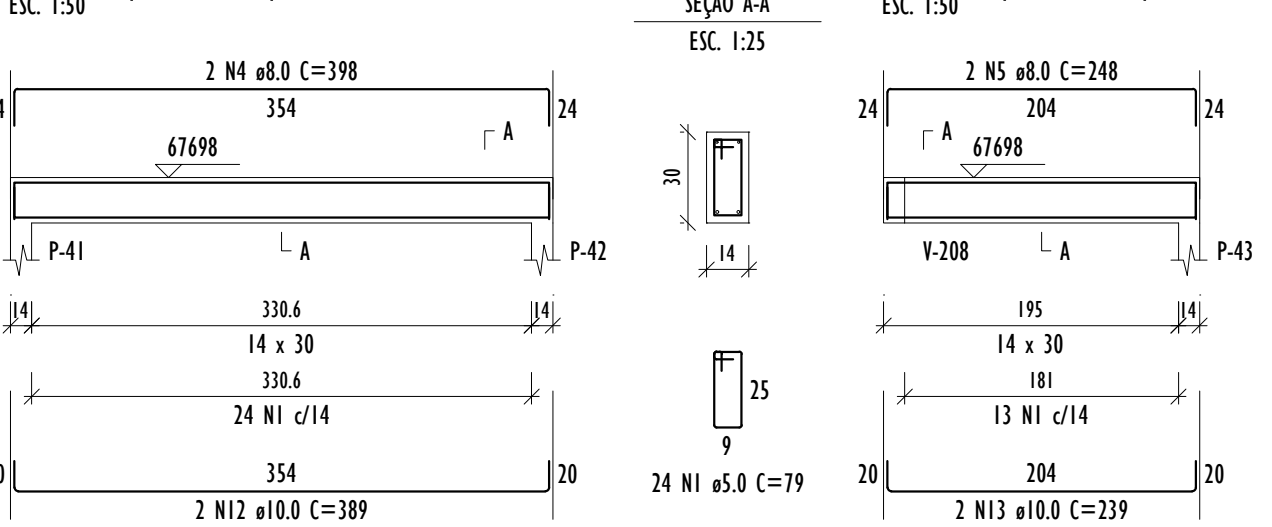
V-201 (14 x 30)



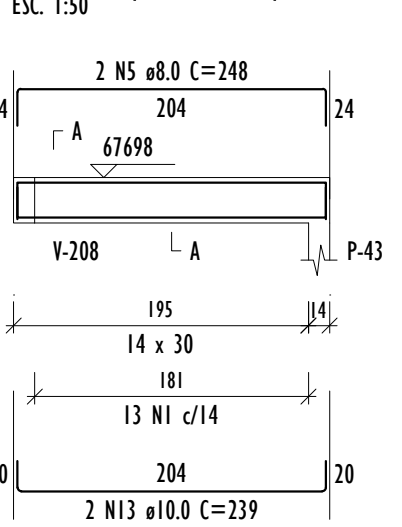
V-202 (14 x 30)



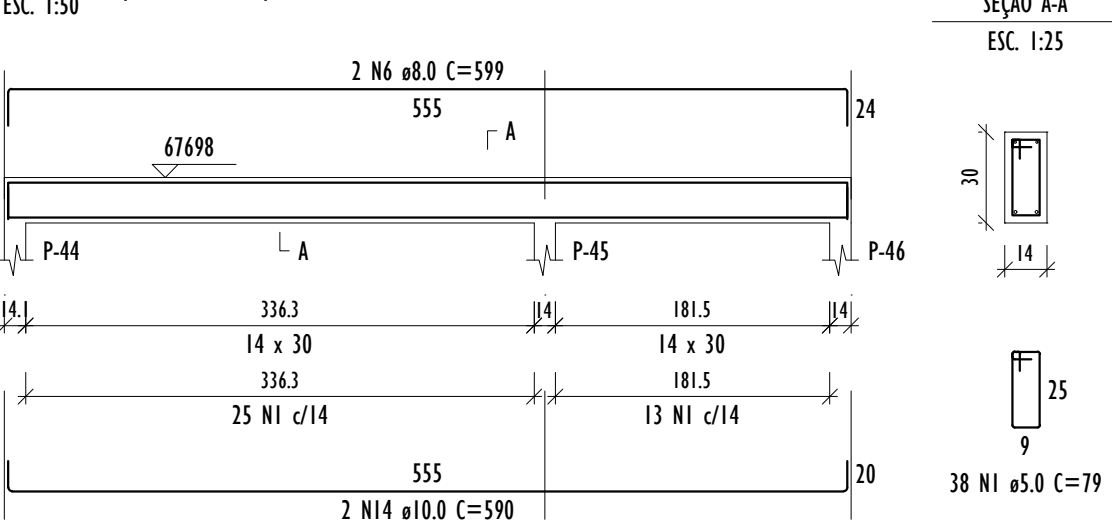
V-203 (14 x 30)



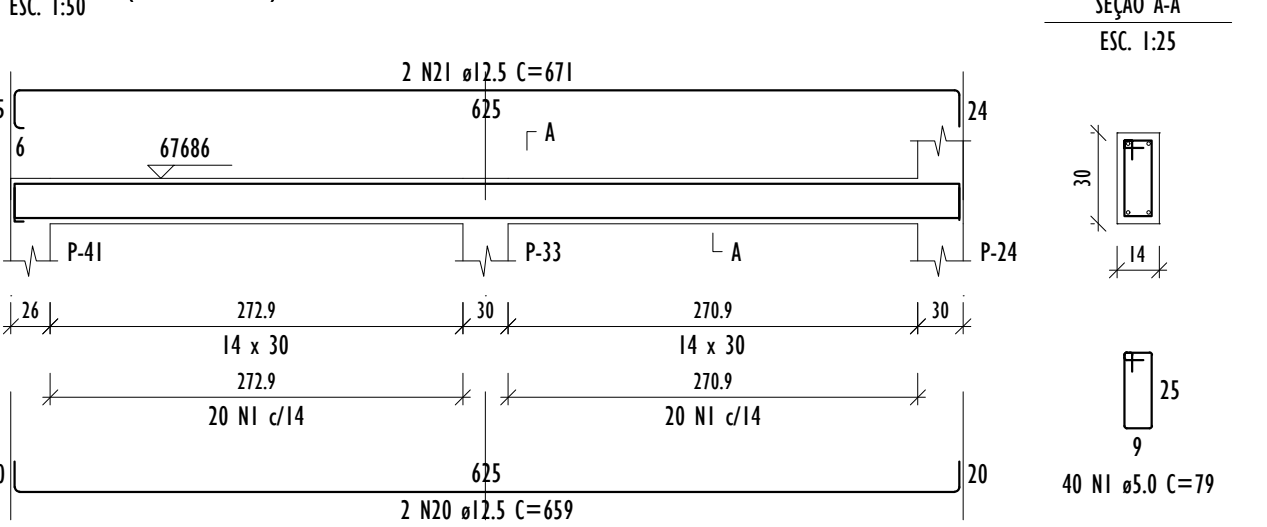
V-204 (14 x 30)



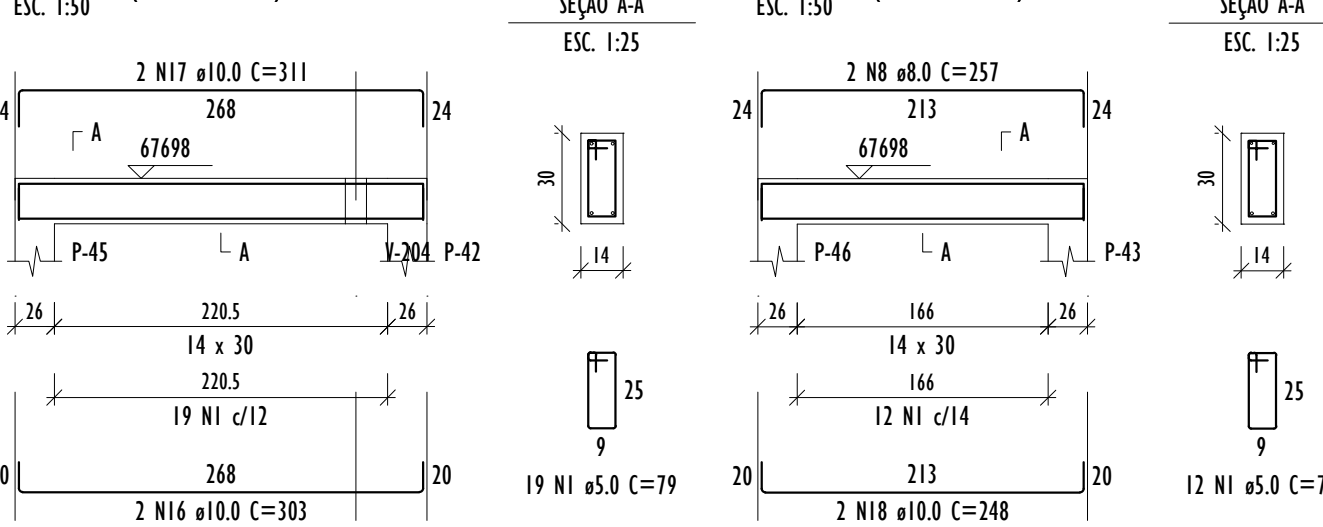
V-205 (14 x 30)



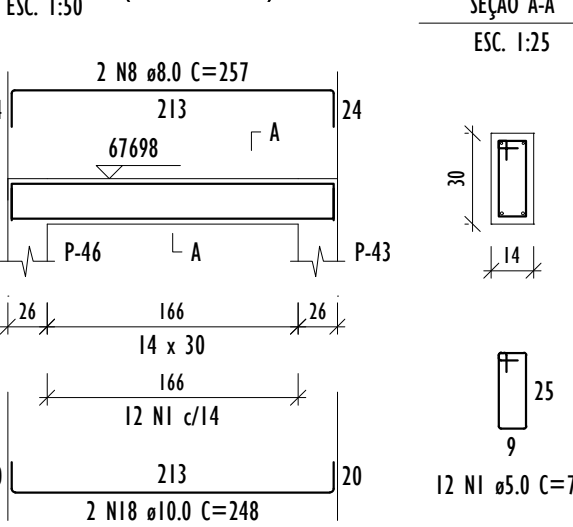
V-207 (14 x 30)



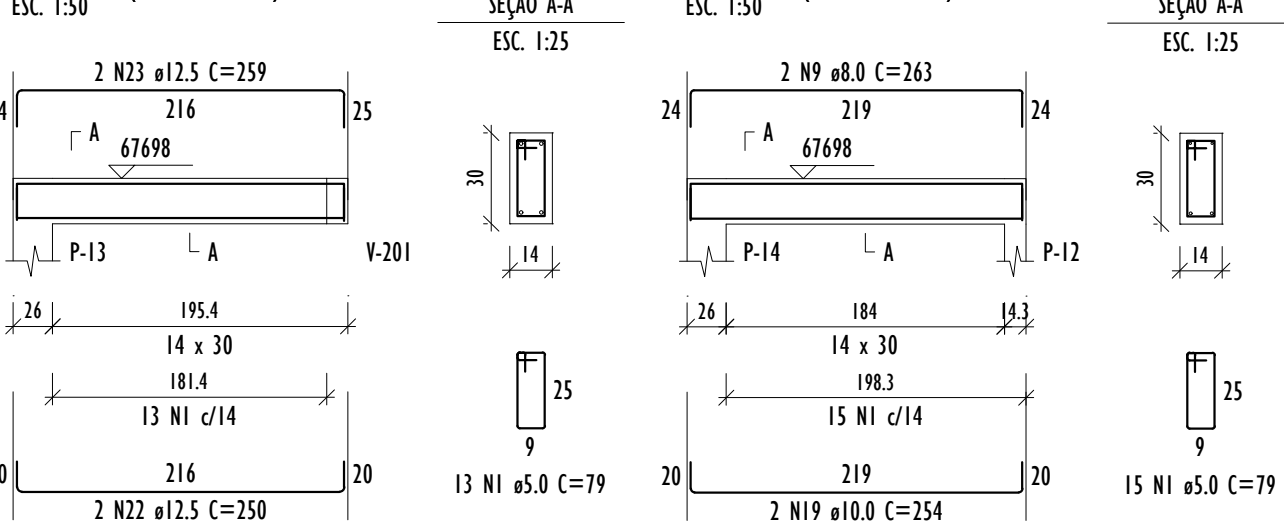
V-208 (14 x 30)



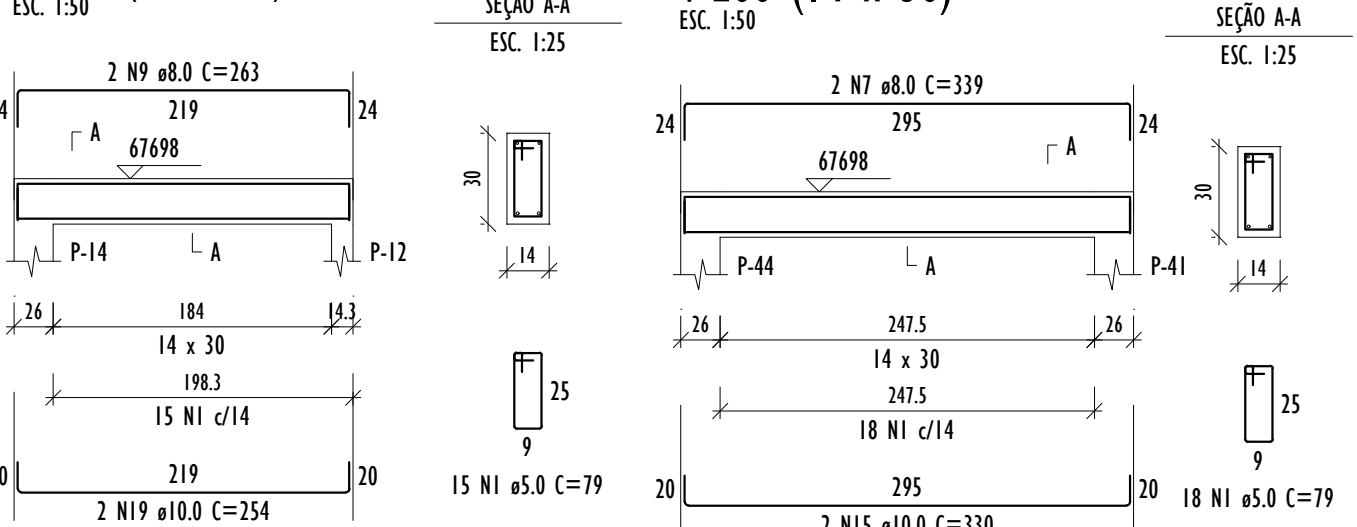
V-209 (14 x 30)



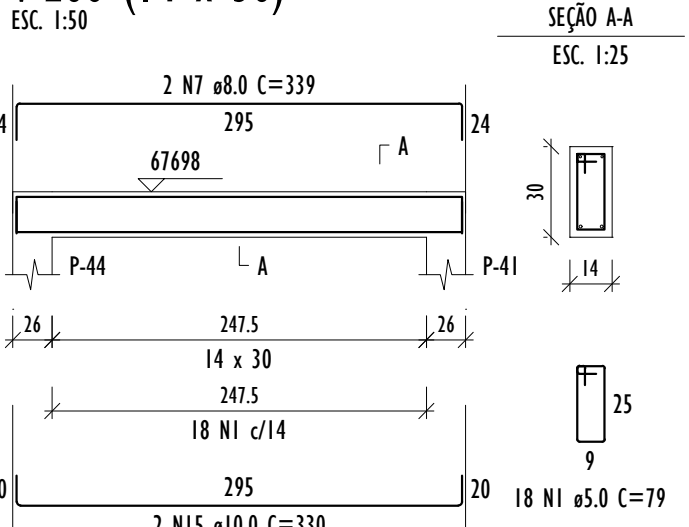
V-210 (14 x 30)



V-211 (14 x 30)



V-206 (14 x 30)



DETALHAMENTO DE VIGAS (NÍVEL 676.98)

ESCALA INDICADA

RELAÇÃO DO AÇO

VB-101	VB-102	VB-103			
VB-104	VB-105	VB-106			
VB-107	VB-108	VB-109			
AÇO	N	DIAM (mm)	QUANT	CUNIT (cm)	CTOTAL (cm)
CA60	1	5.0	495	111	54945
	2	5.0	38	131	4978
CA50	3	5.0	5	225	1125
	4	6.3	1	77	77
	5	6.3	1	77	77
	6	10.0	2	1102	2204
	7	10.0	2	170	340
	8	10.0	2	423	846
	9	10.0	4	1200	4800
	10	10.0	2	348	696
	11	10.0	2	1128	2256
	12	10.0	2	631	1262
	13	10.0	2	483	966
	14	10.0	2	259	518
	15	10.0	2	287	574
	16	10.0	2	256	512
	17	10.0	2	284	568
	18	10.0	2	171	342
	19	10.0	2	199	398
	20	10.0	2	899	1798
	21	10.0	2	521	1042
	22	10.0	2	1134	2268
	23	10.0	2	219	438
	24	12.5	2	406	812
	25	12.5	1	234	234
	26	12.5	2	434	868
	27	12.5	1	326	326
	28	12.5	2	1029	2058
	29	12.5	2	356	712
	30	12.5	1	369	369
	31	12.5	1	390	390
	32	12.5	2	1132	2264
	33	12.5	2	230	460
	34	12.5	1	269	269
	35	12.5	2	1108	2216
	36	12.5	2	173	346
	37	12.5	2	612	1224
	38	12.5	1	190	190
	39	12.5	1	325	325
	40	12.5	1	200	200
	41	12.5	2	235	470
	42	12.5	2	217	434
	43	12.5	2	1197	2394
	44	12.5	2	629	1258

RESUMO DO AÇO

AÇO	DIAM (mm)	C/TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	6.3	1.5	1	0.4
CASO	10.0	218.7	19	134.8
CASO	12.5	178.2	15	171.7
CASO	5.0	610.5	51	94.1

PESO TOTAL (kg)

CASO	306.9
CASO	94.1

Volume de concreto (C=30) = 5.80 m³
Área de forma = 71.05 m²

RELAÇÃO DO AÇO

V-201	V-202	V-203	V-204	V-205	V-206	V-207	V-208	V-209	V-210	V-211	
AÇO	N	DIAM (mm)	QUANT	CUNIT (cm)	C.TOTAL (cm)	AÇO	N	DIAM (mm)	QUANT	CUNIT (cm)	C.TOTAL (cm)
CASO	1	5.0	222	79	17538	1	5.0	2	319	638	
	2	8.0	2	319	638	2	8.0	2	179	358	
	3	8.0	2	398	796	3	8.0	2	248	496	
	4	8.0	2	599	1198	4	8.0	2	339	678	
	5	8.0	2	257	514	5	8.0	2	263	526	
	6	8.0	2	332	664	6	8.0	2	170	340	
	7	8.0	2	389	778	7	8.0	2	389	778	
	8	8.0	2	239	478	8	8.0	2	590	1180	
	9	8.0	2	330	660	9	8.0	2	303	606	
	10	10.0	2	311	622	10	10.0	2	240	480	
	11	10.0	2	254	508	11	10.0	2	659	1318	
	12	10.0	2	671	1342	12	10.0	2	250	500	
	13	10.0	2	250	500	13	10.0	2	259	518	
	14	10.0	2	259	518	14	10.0	2	259	518	
	15	10.0	2	330	660	15	10.0	2	303	606	
	16	10.0	2	311	622	16	10.0	2	240	480	
	17	10.0	2	254	508	17	10.0	2	659	1318	
	18	10.0	2	671	1342	18	10.0	2	250	500	
	19	10.0	2	250	500	19	10.0	2	259	518	
	20	12.5	2	659	1318	20	12.5	2	259	518	
	21	12.5	2	259	518	21	12.5	2	259	518	
	22	12.5	2	250	500	22	12.5	2	250	500	
	23	12.5	2	259	518	23	12.5	2	259	518	

RESUMO DO AÇO

AÇO	DIAM (mm)	C/TOTAL (m)	QUANT + 0% (Barras)	PESO + 0% (kg)
CASO	8.0	52	5	20.5
CASO	10.0	63.3	6	35.4
CASO	12.5	36.8	4	35.4
CASO	5.0	175.4	15	27

PESO TOTAL (kg)

CASO	95
CASO	27

Volume de concreto (C=30) = 1.25 m³
Área de forma = 19.56 m²

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
01	REVISÃO DE PROJETO	06/2026	RF	LS	SL
00	EMIÇÃO INICIAL	05/2026	RF	LS	SL
CONTRATADA:		R: Sinval Ladeira REG. CREIA: 28.498/D ASS:			
CONTRATANTE:		PREFEITURA MUNICIPAL DE JUIZ DE FORA			
ENDEREÇO:		JUIZ DE FORA/MG			
PROGRAMA:		UBS VALADARES			
TÍTULO E CONTEÚDO:		PROJETO EXECUTIVO ESTRUTURAL DETALHAMENTO DE VIGAS NÍVEL 673,95 - PARTE 01/03 DETALHAMENTO DE VIGAS NÍVEL 676,98			
DATA: MAIO/2026		ESCALA: INDICADA		FOLHA: 15/23	
ARQUIVO: ESTC-PE-JF691-YLDR-052026-R01					