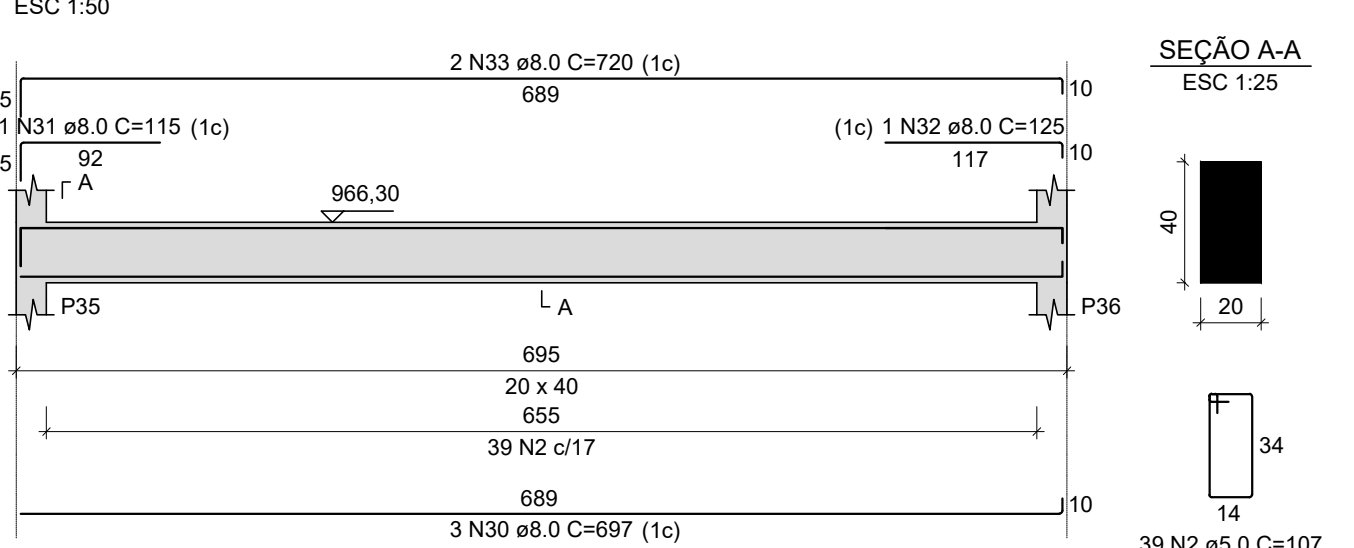
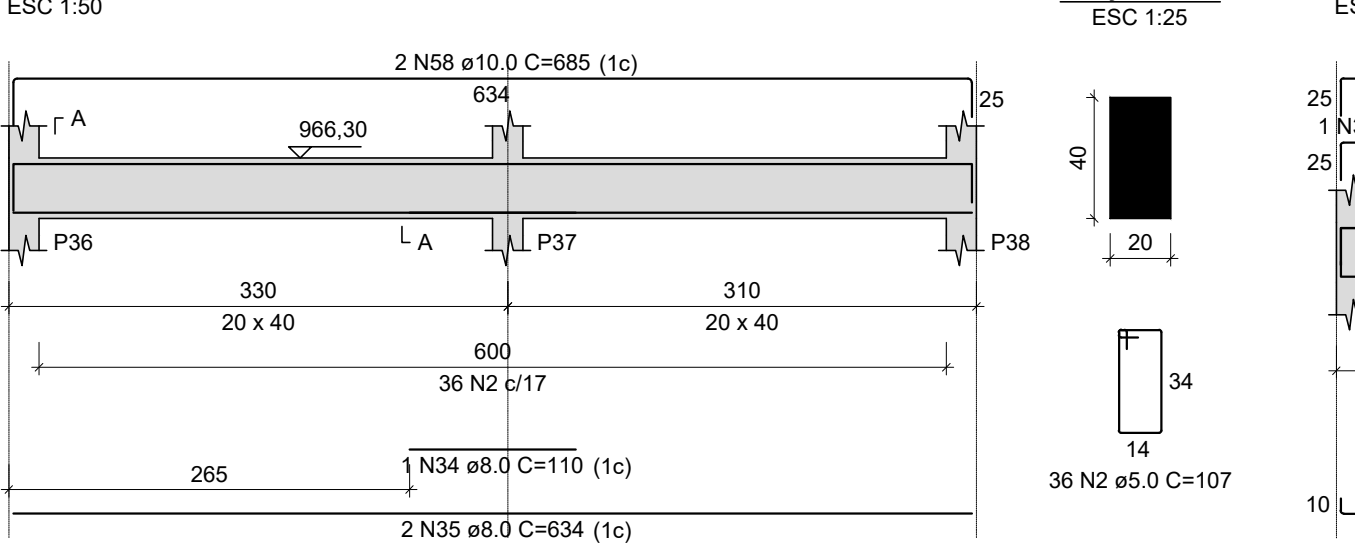


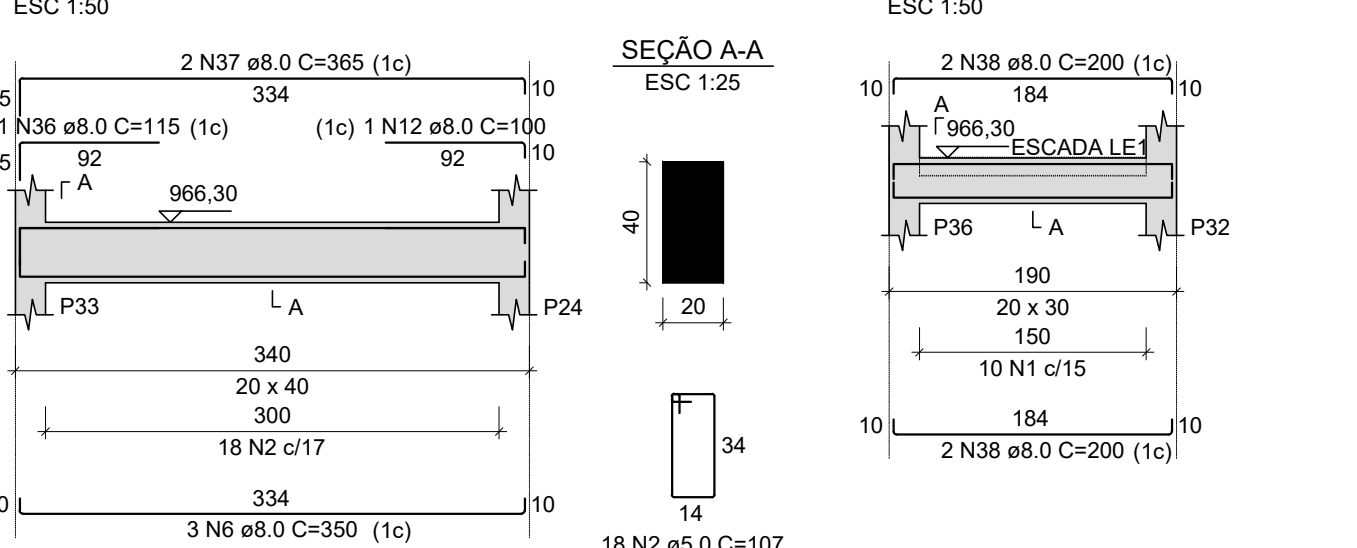
## VIGA BALDRAME1



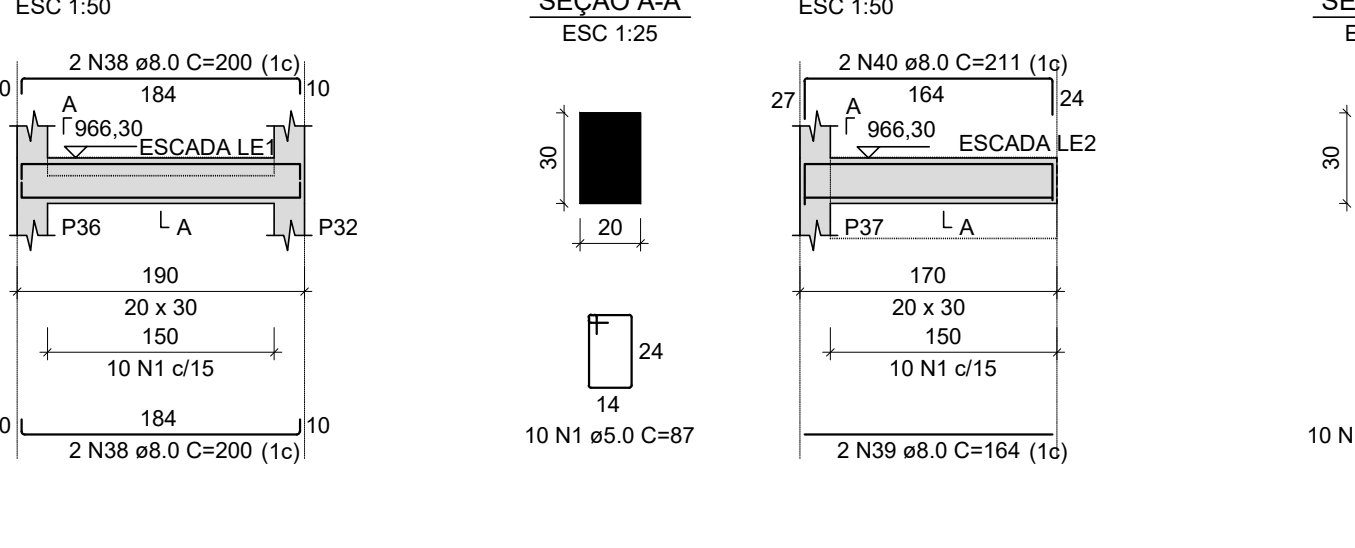
## VIGA BALDRAME2



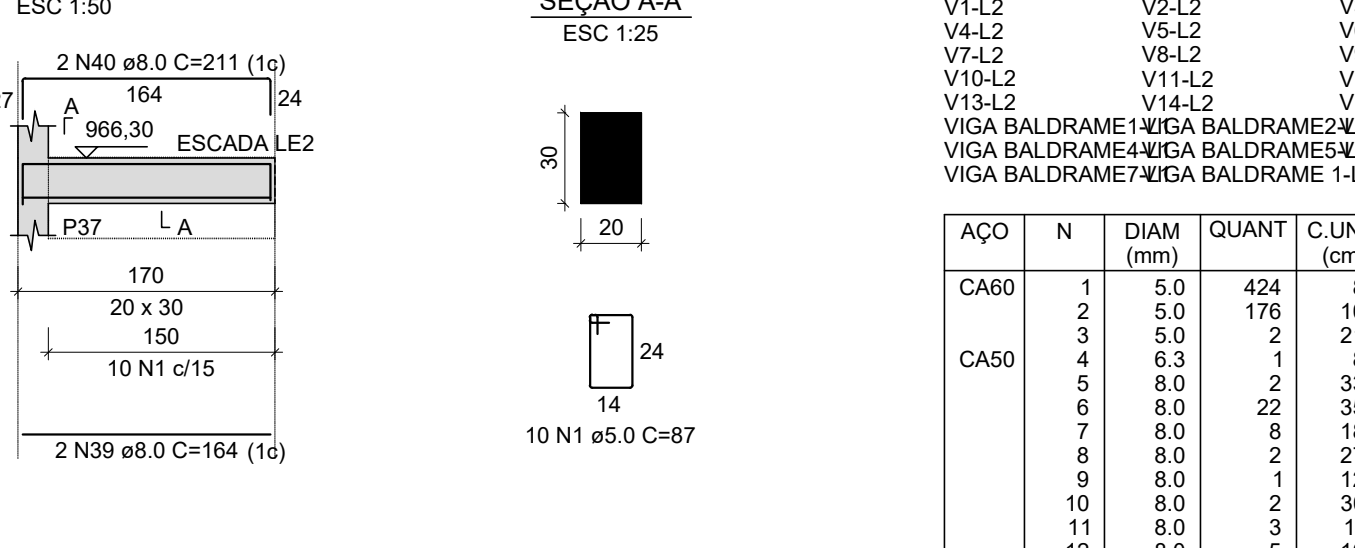
## VIGA BALDRAME3



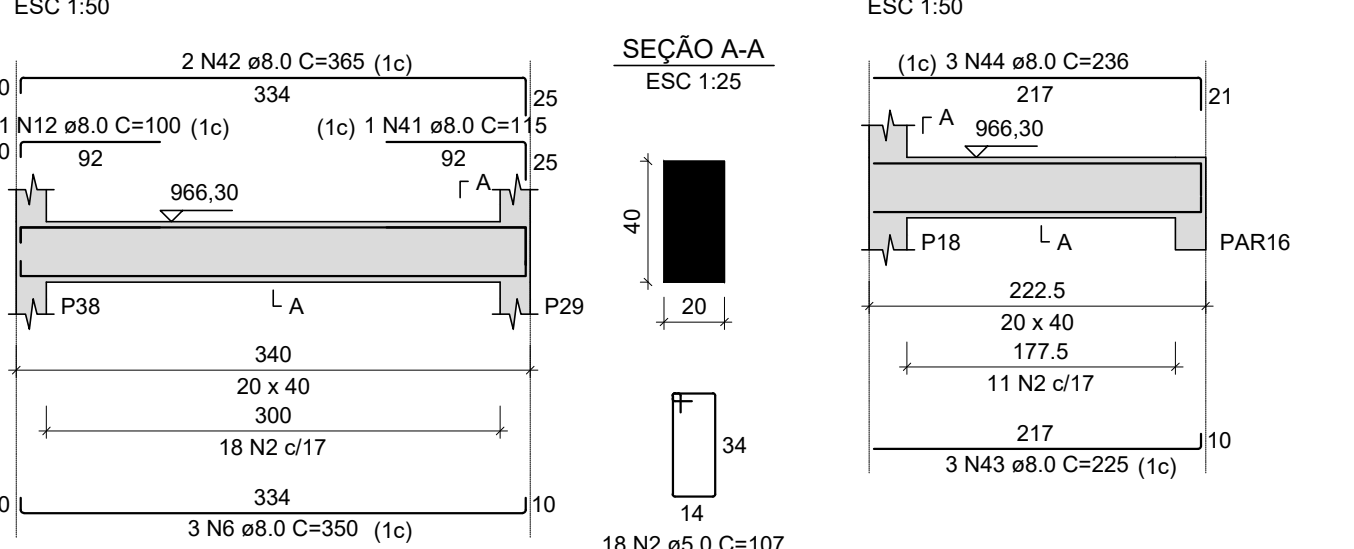
## VIGA BALDRAME4



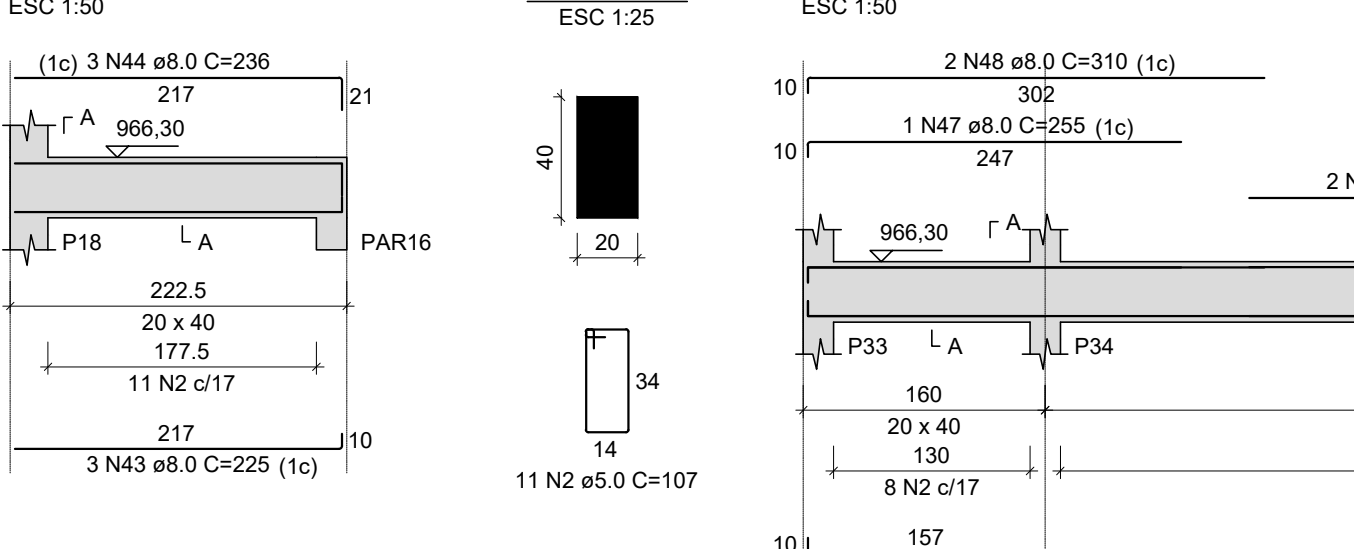
## VIGA BALDRAME5



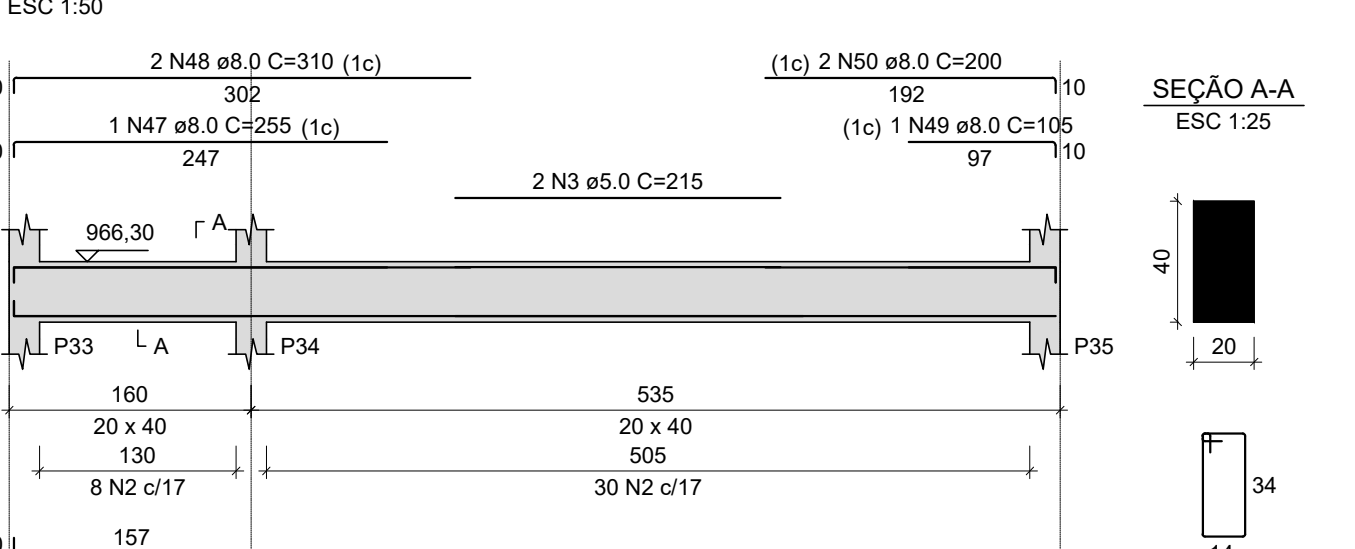
## VIGA BALDRAME6



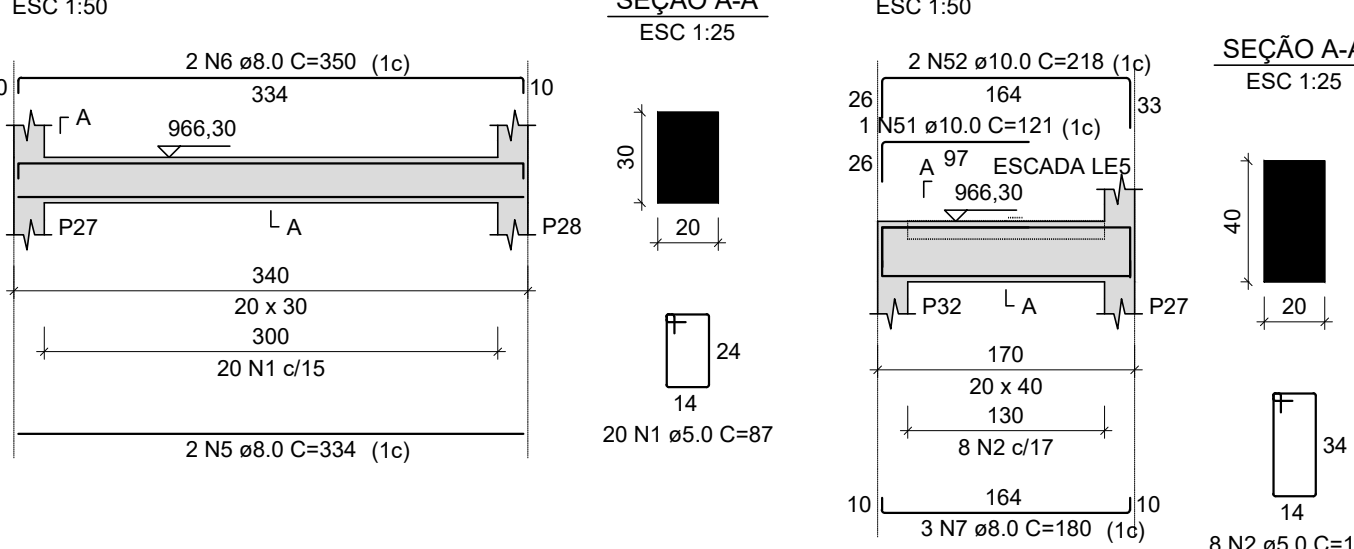
## VIGA BALDRAME7



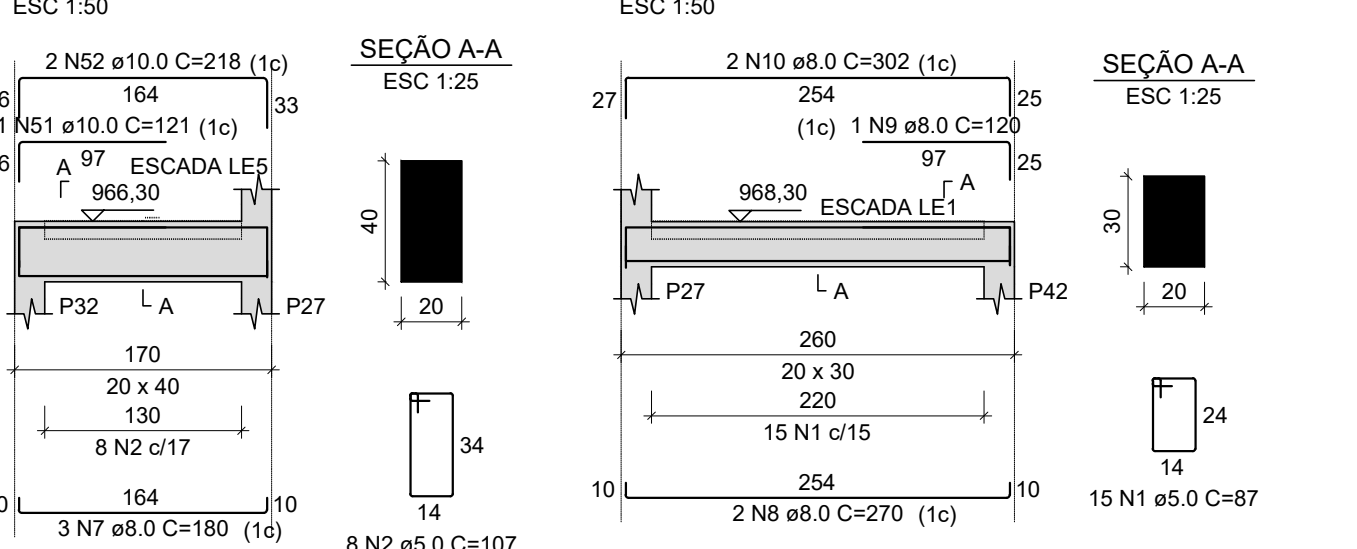
## VIGA BALDRAME 1



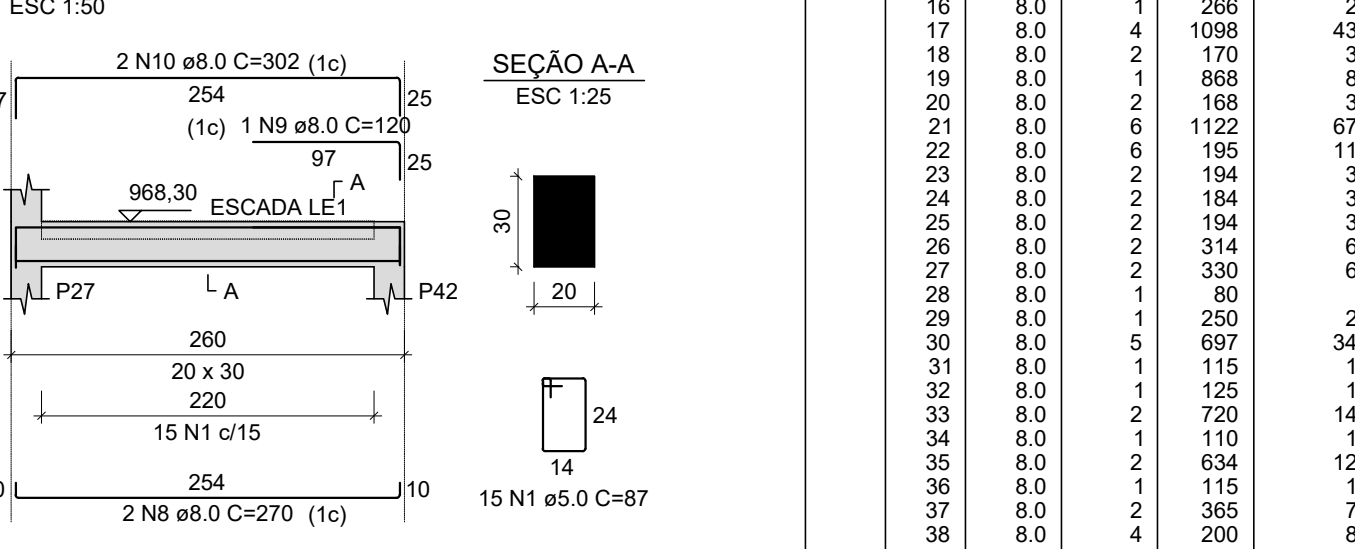
## V1



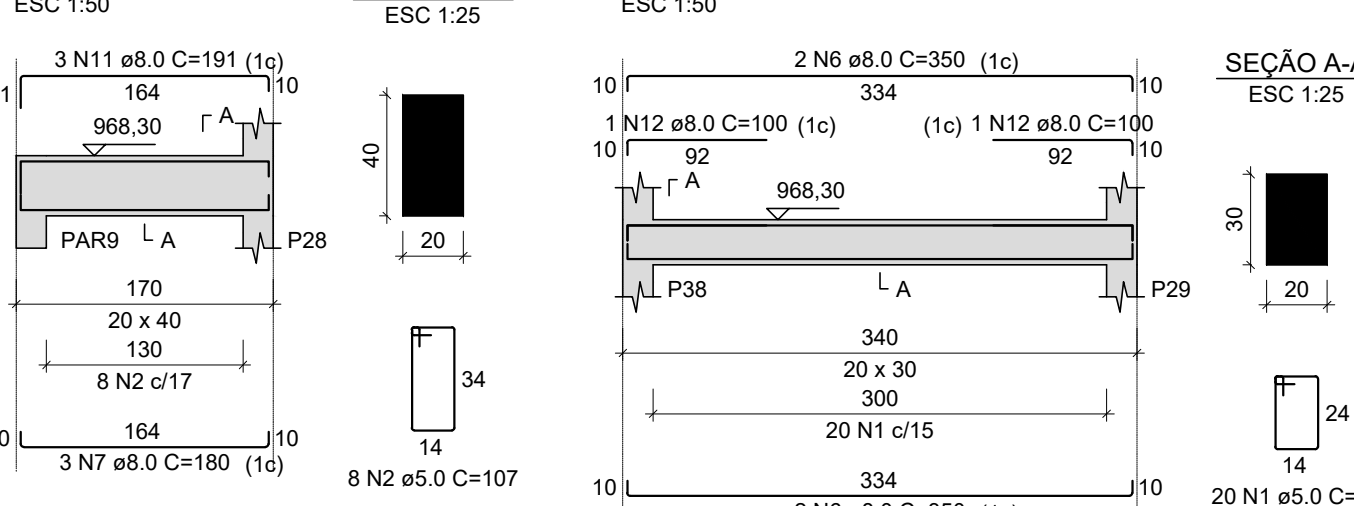
## V2



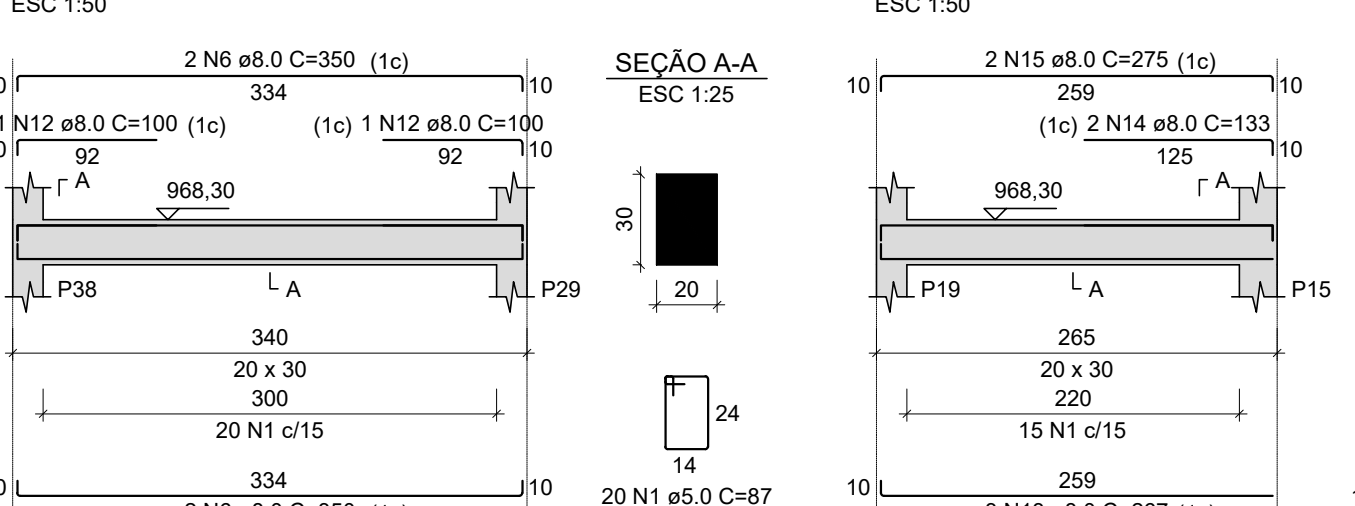
## V3



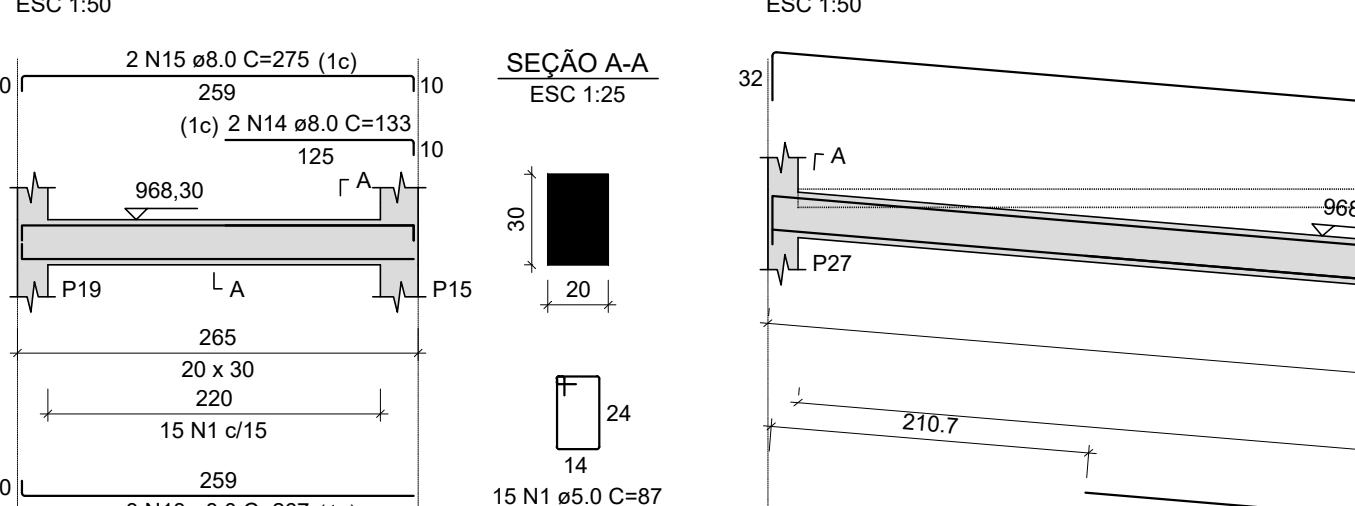
## V4



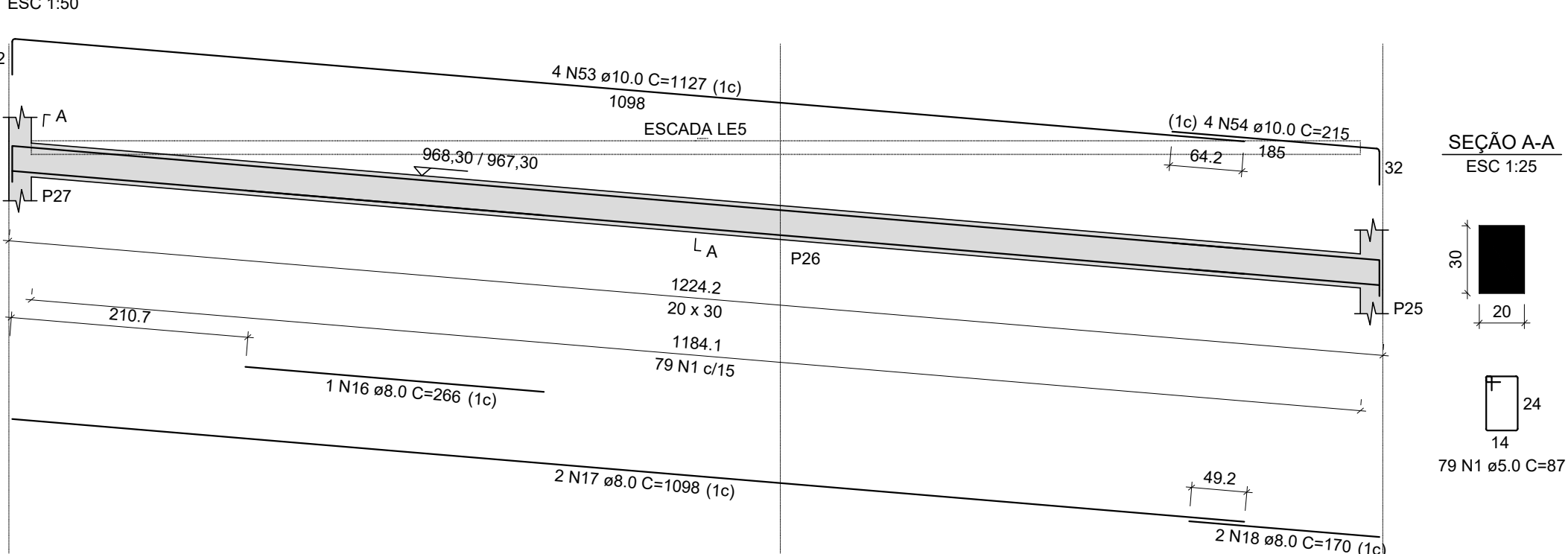
## V5



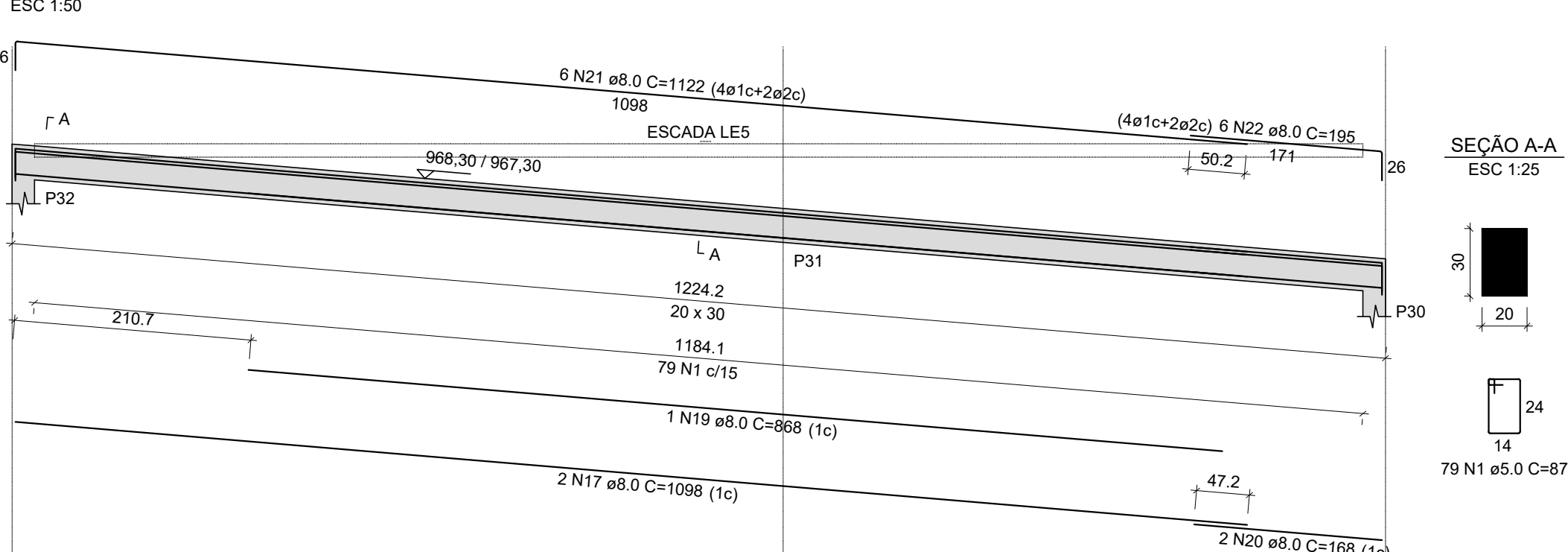
## V6



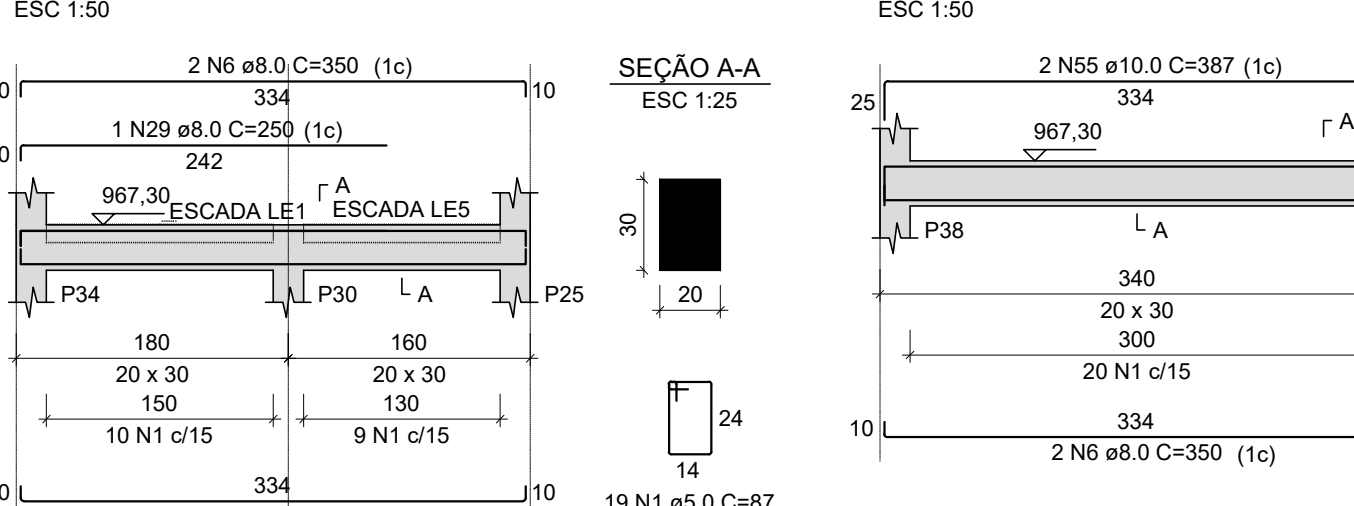
## V7



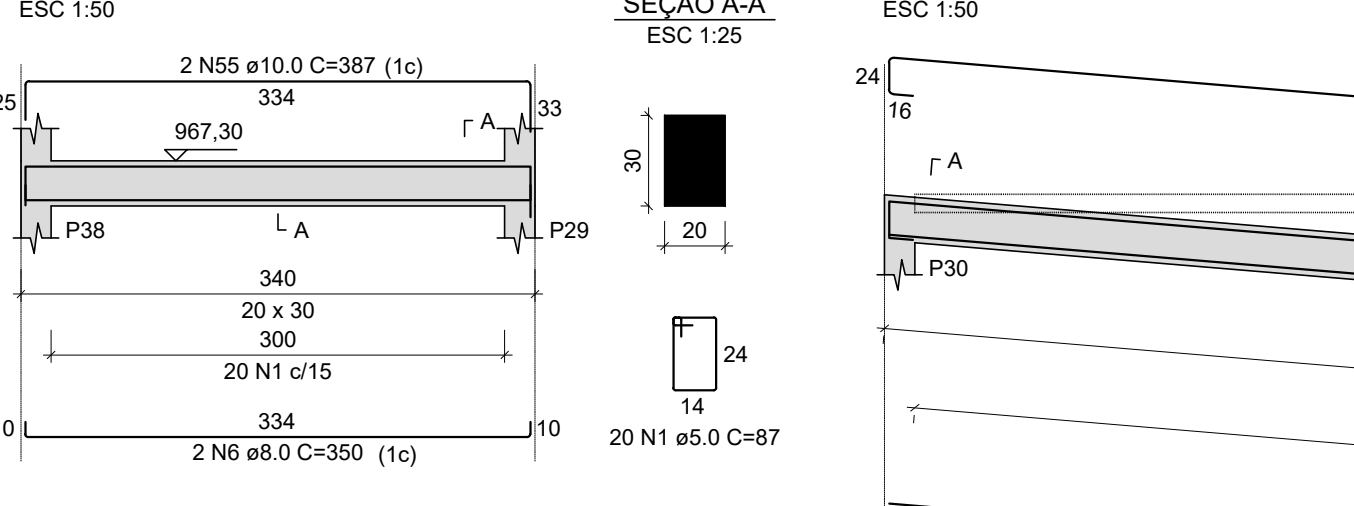
## V8



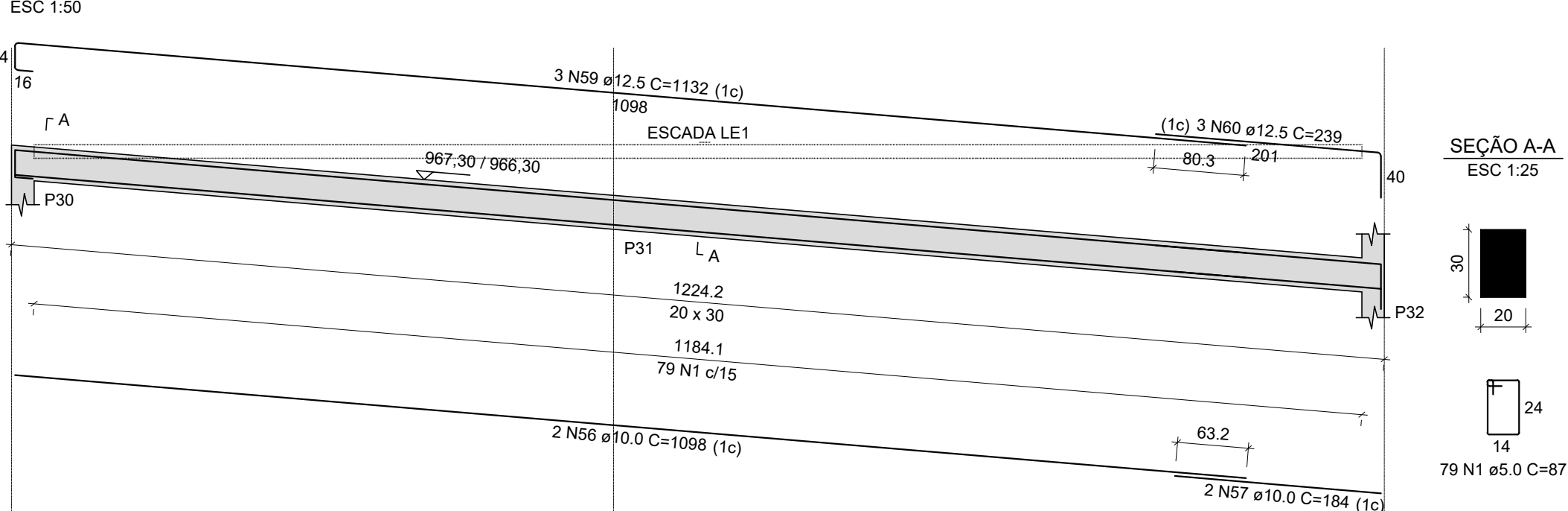
## V13



## V14



## V15



### RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	424	87	36888
	2	5.0	176	107	18832
	3	5.0	2	215	430
	4	6.3	1	86	86
	5	8.0	2	334	668
	6	8.0	22	350	7700
	7	8.0	8	180	1440
	8	8.0	2	270	540
	9	8.0	1	120	120
	10	8.0	2	302	604
	11	8.0	3	191	573
	12	8.0	5	100	500
	13	8.0	3	267	801
	14	8.0	2	133	266
	15	8.0	2	275	550
	16	8.0	1	266	266
	17	8.0	4	1098	4392
	18	8.0	2	170	340
	19	8.0	1	868	868
	20	8.0	2	168	336
	21	8.0	6	1122	6732
	22	8.0	6	195	1170
	23	8.0	2	194	388
	24	8.0	2	184	368
	25	8.0	2	194	388
	26	8.0	2	314	628
	27	8.0	2	330	660
	28	8.0	1	80	80
	29	8.0	1	250	250
	30	8.0	5	697	3485
	31	8.0	1	115	115
	32	8.0	1	125	125
	33	8.0	2	720	1440
	34	8.0	1	110	110
	35	8.0	2	634	1268
	36	8.0	1	115	115
	37	8.0	3	365	1305
	38	8.0	4	200	800
	39	8.0	2	164	328
	40	8.0	2	211	422
	41	8.0	1	115	115
	42	8.0	2	365	730
	43	8.0	3	225	675
	44	8.0	3	236	708
	45	8.0	1	165	165
	46	8.0	1	230	230
	47	8.0	1	255	255
	48	8.0	2	310	620
	49	8.0	1	105	105
	50	8.0	2	200	400
	51	10.0	1	121	121
	52	10.0	2	218	436
	53	10.0	4	1127	4508
	54	10.0	4	215	860
	55	10.0	2	387	774
	56	10.0	2	1098	2196
	57	10.0	2	184	368
	58	10.0	2	685	1370
	59	12.5	3	1132	3396
	60	12.5	3	239	717

### RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	0.9	0.2
	8.0	435.7	189.1
	10.0	106.3	72.1
	12.5	41.1	43.6
	5.0	561.5	95.2
PESO TOTAL (kg)			
CA50		305	
CA60		95.2	

Volume de concreto fck 3,0kN/cm² (C-30) = 6.12 m³  
Área de forma = 72.23 m²

06	21/11/22	REVISÃO CONFORME NOTA TÉCNICA	ATACIZIO
REVISÃO	DATA	DESCRIÇÃO	RESP.
EMPRESA	MARKA ARQUITETURA E ENGENHARIA LTDA. RUA PROFESSOR ABEYLARD, 279, SALA 9 CENTRO, SETE LAGOAS/MG opoio@markaprojetos.com.br (31) 3177-4235 www.markaprojetos.com.br		ESPECIALIDADE <b>ESTRUTURAL</b> FASE DO PROJETO <b>EXECUTIVO</b>
EMPREENHIMENTO - OBRA	ESCOLA MUNICIPAL BELVEDERDE RUA JOSÉ COELHO, RUA CANADÁ E RUA SÉRGIO JACOWLEWSKI B. SIDERÚRGICO - CONSELHEIRO LAFAIETE/MG		RESPONSÁVEL PROJETO JOSE ATACIZIO DA FE ENG. CIVIL CREAM/MG, 87.889/D COORDENADOR PROJETO KARINE NARDY
ASSUNTO	PROJETO DE ESTRUTURAS DE CONCRETO ARMAÇÃO DAS VIGAS BALDRAME-PISO 968,30-BLOCO 03		PROJETISTA JOSE ATACIZIO DA FE ESCALA INDICADA DATA 02/11/2022 ARQUIVO