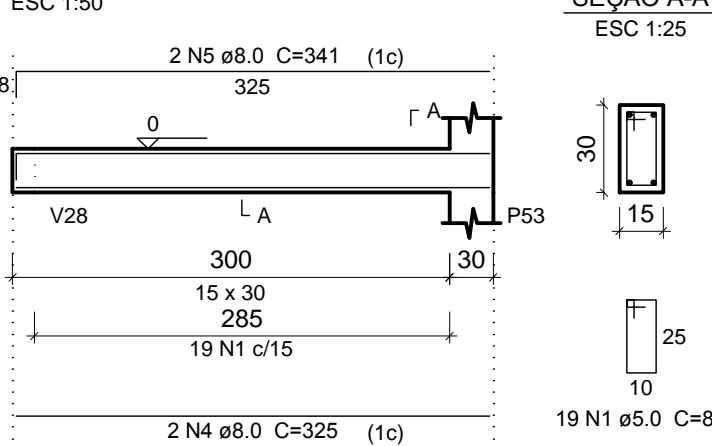
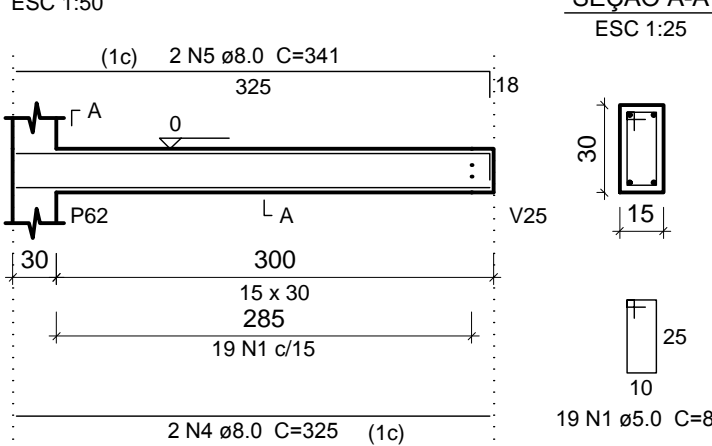


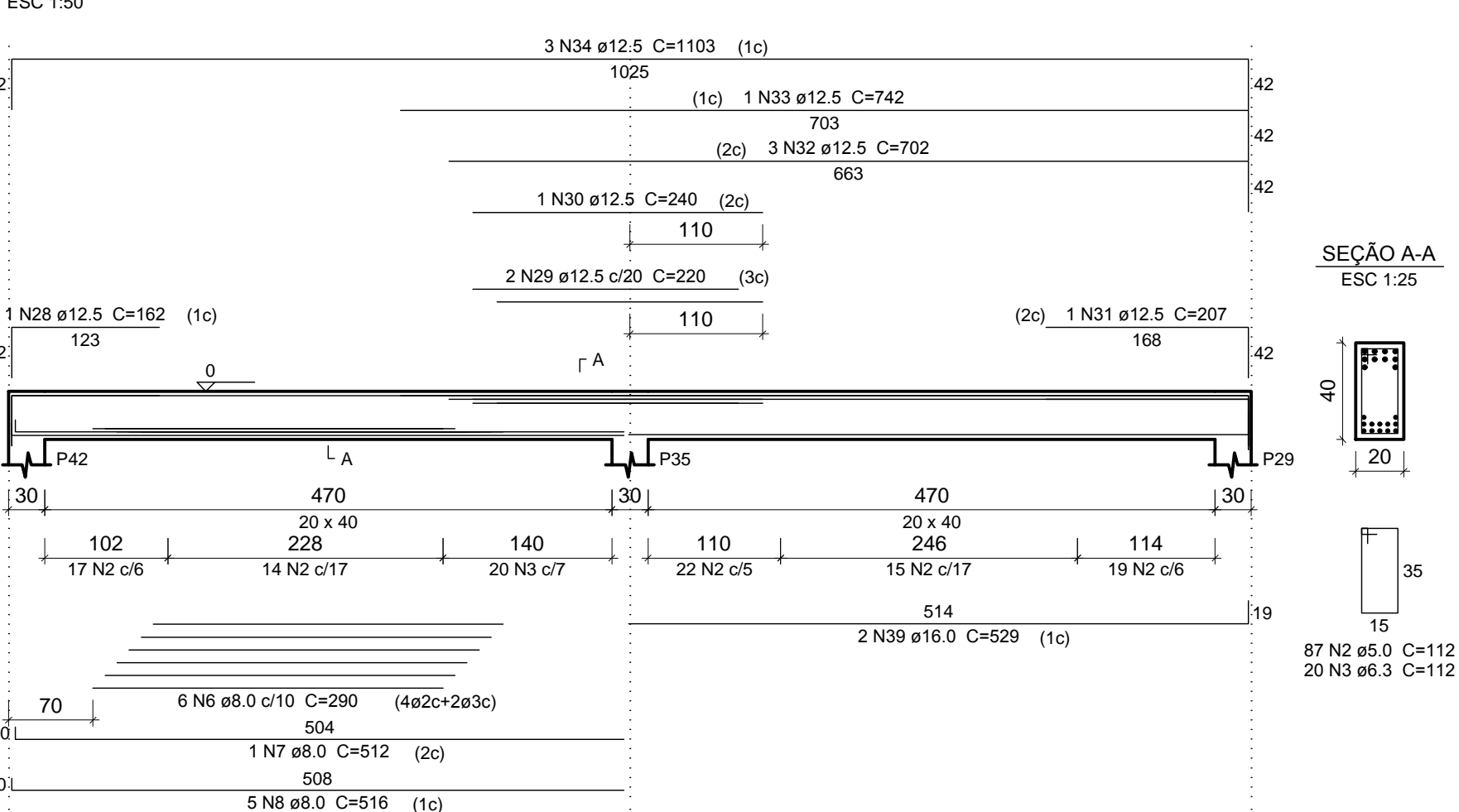
V51 (15 x 30)



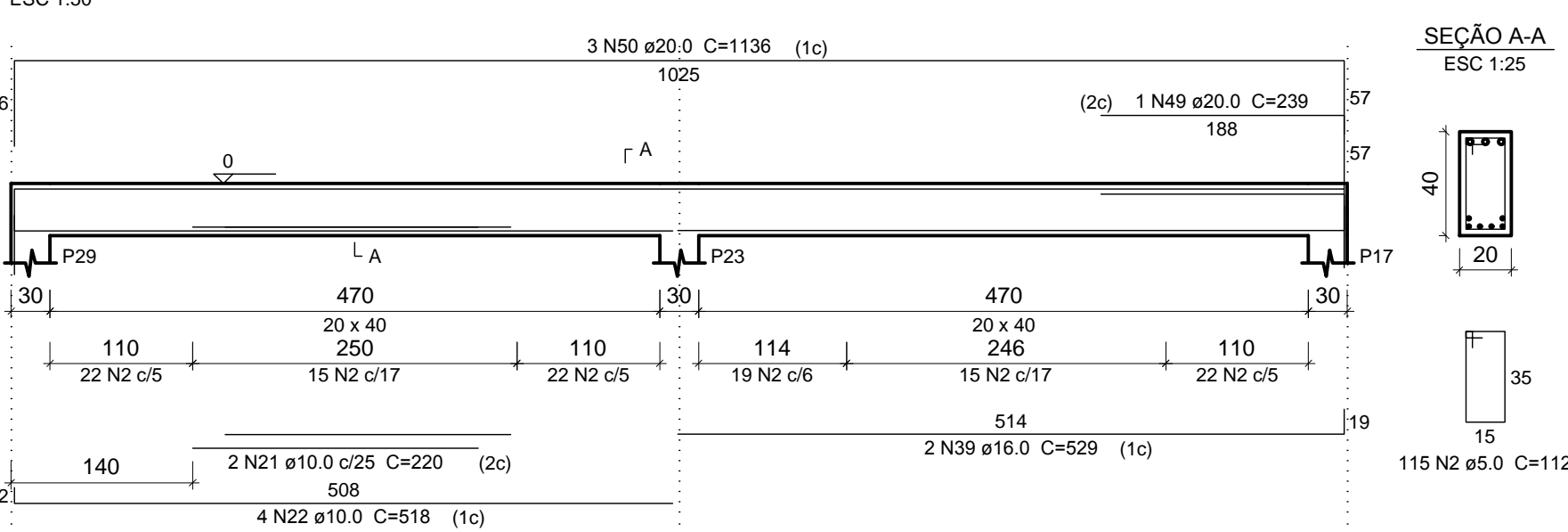
V52 (15 x 30)



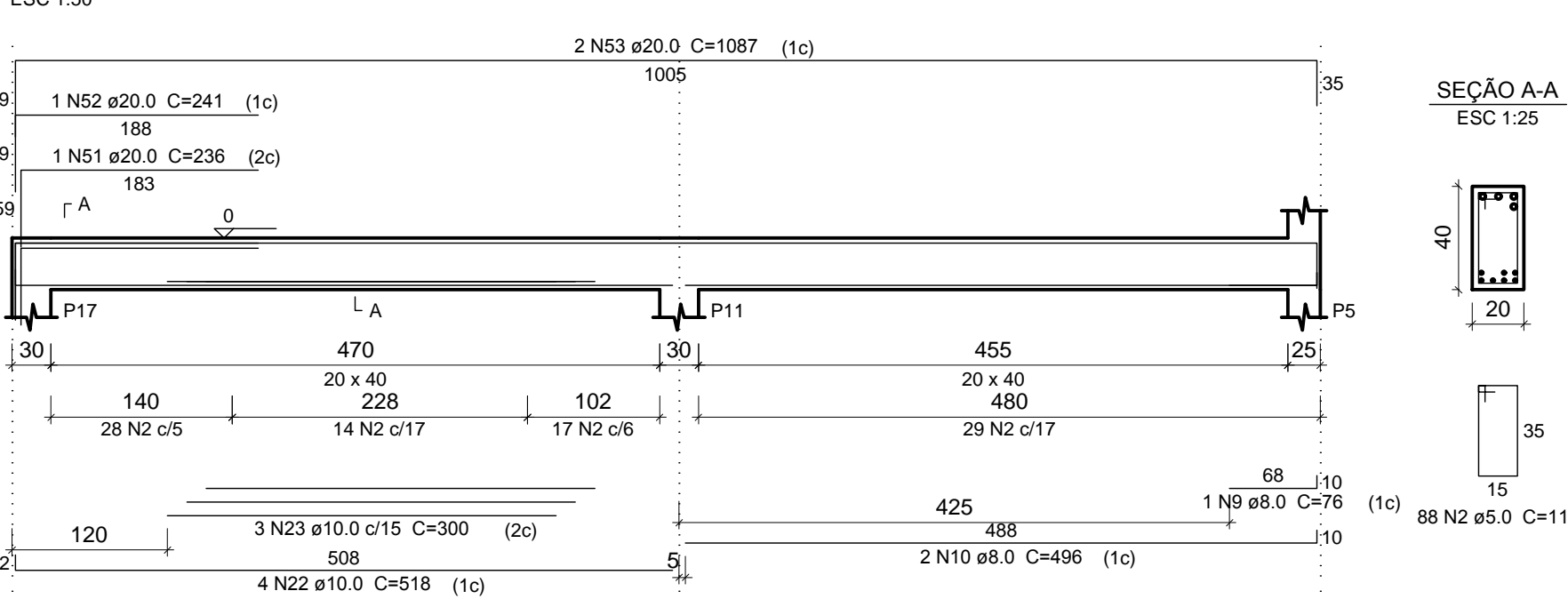
V53 (20 x 40)



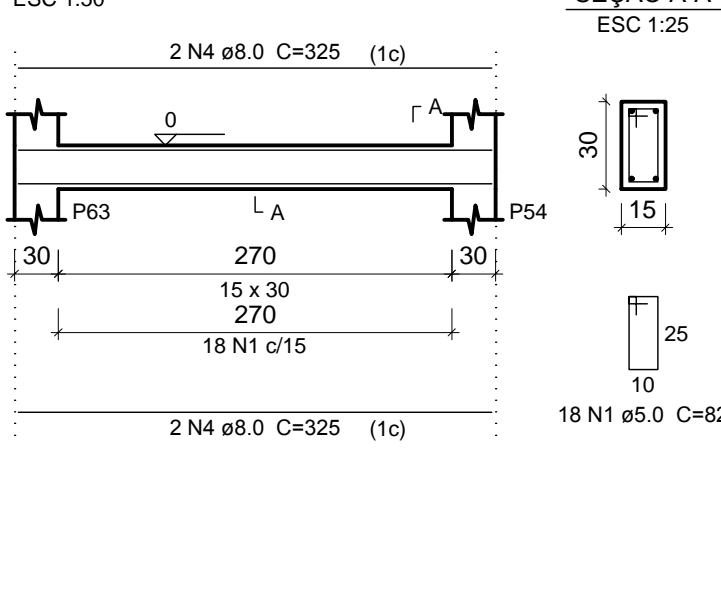
V54 (20 x 40)



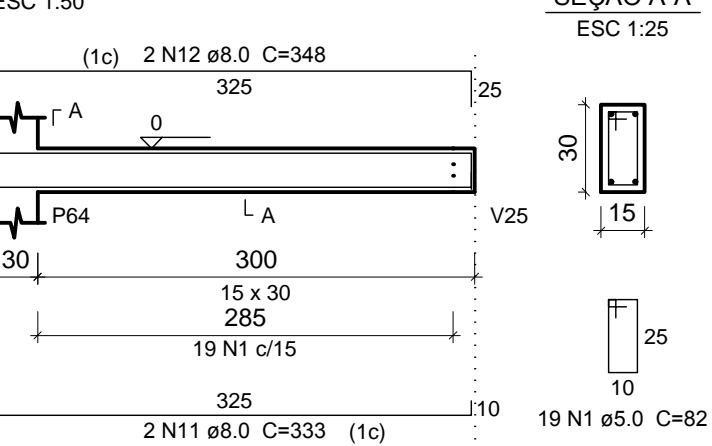
V55 (20 x 40)



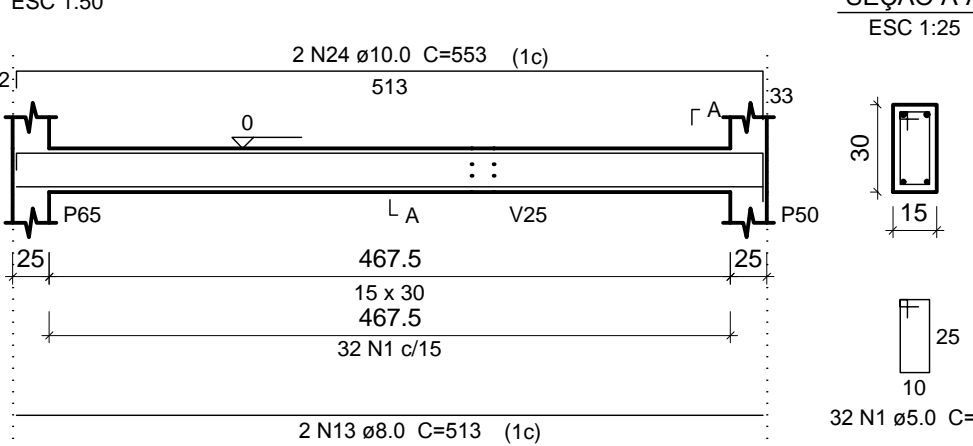
V56 (15 x 30)



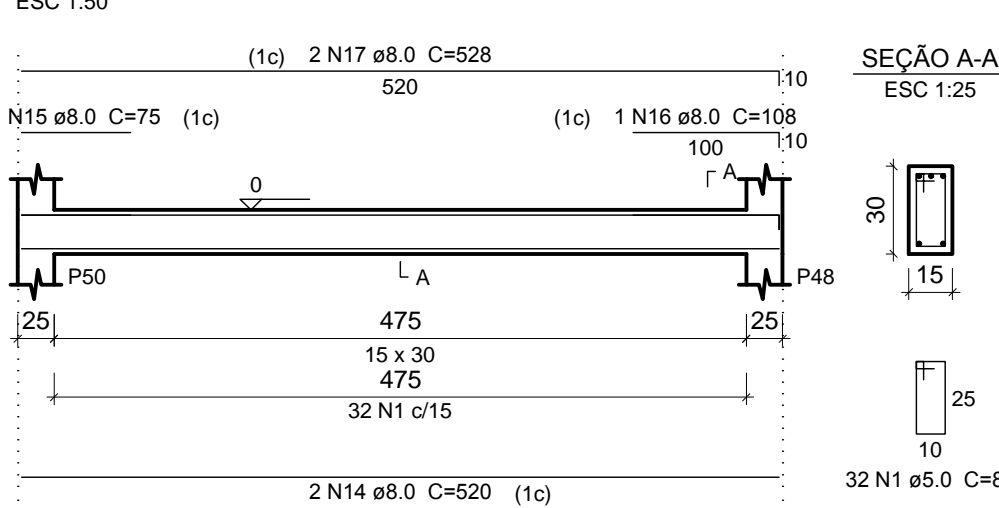
V57 (15 x 30)



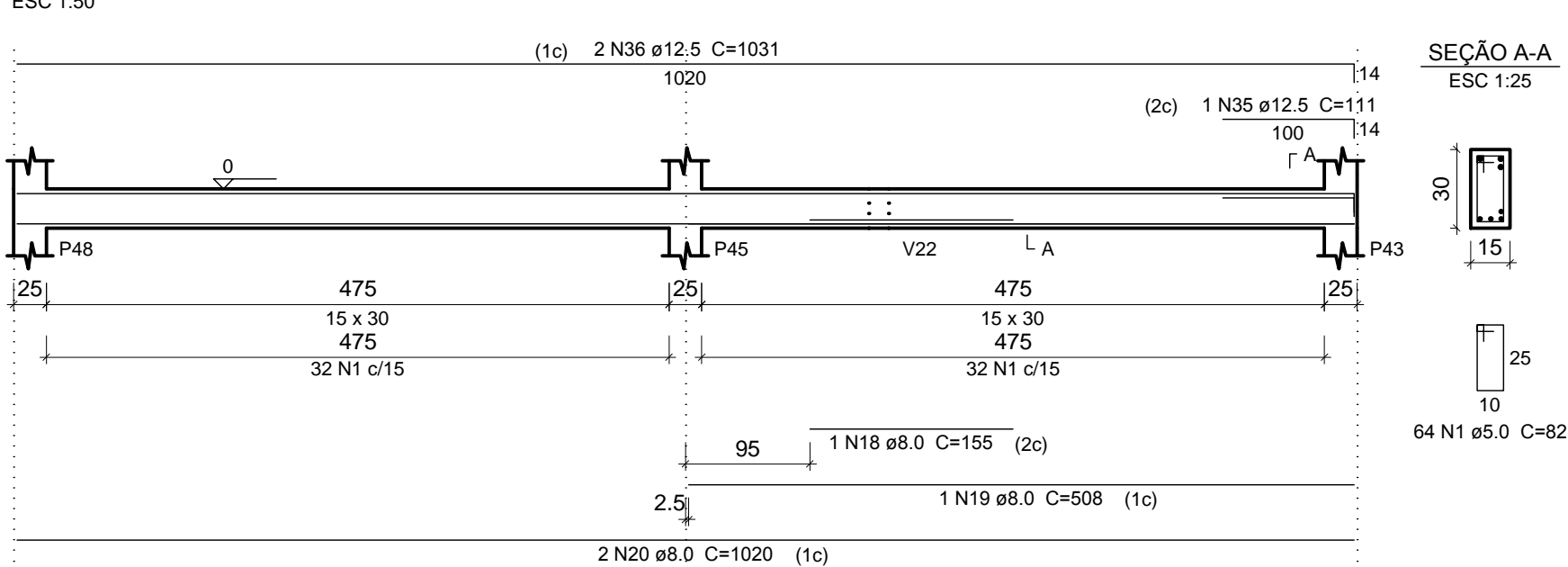
V58 (15 x 30)



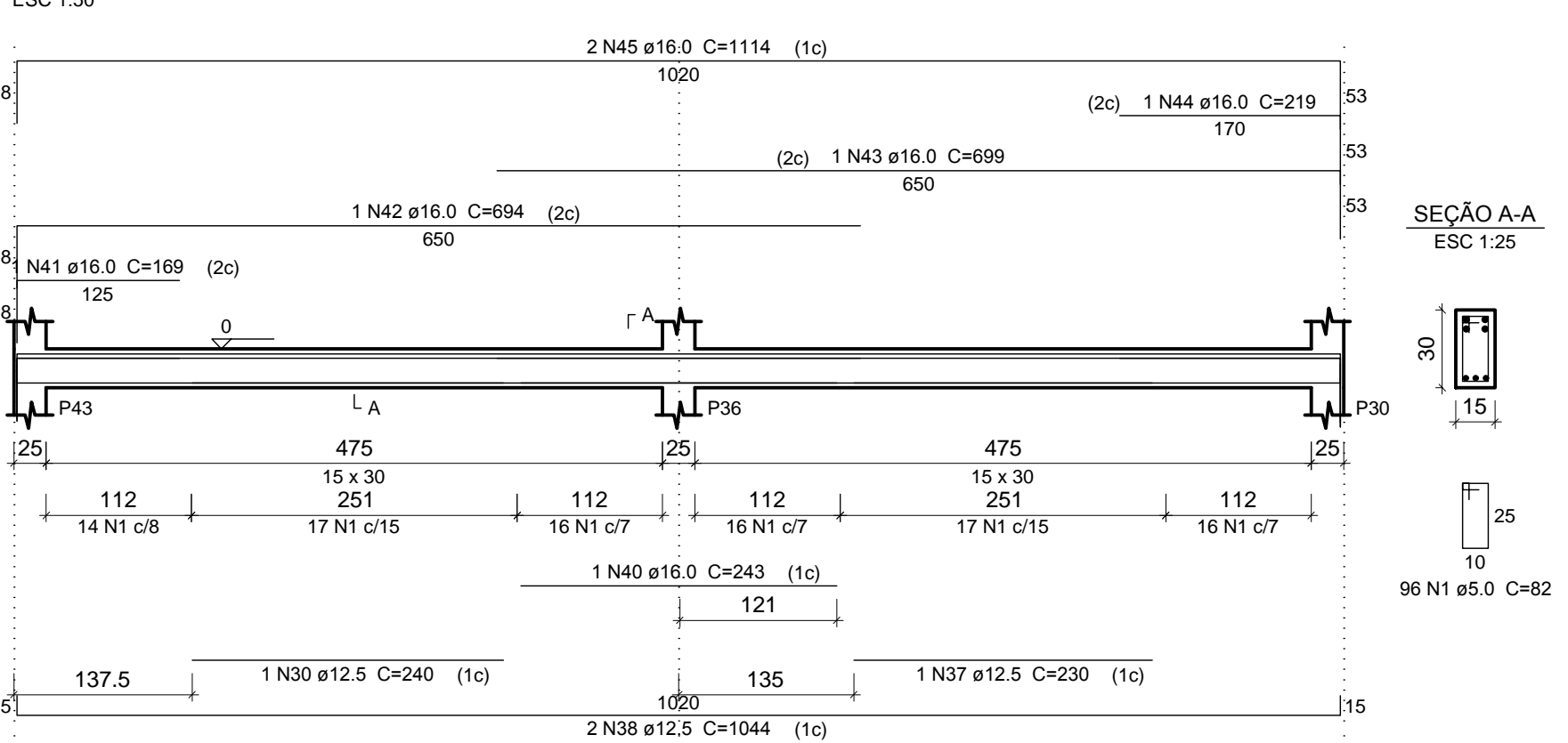
V59 (15 x 30)



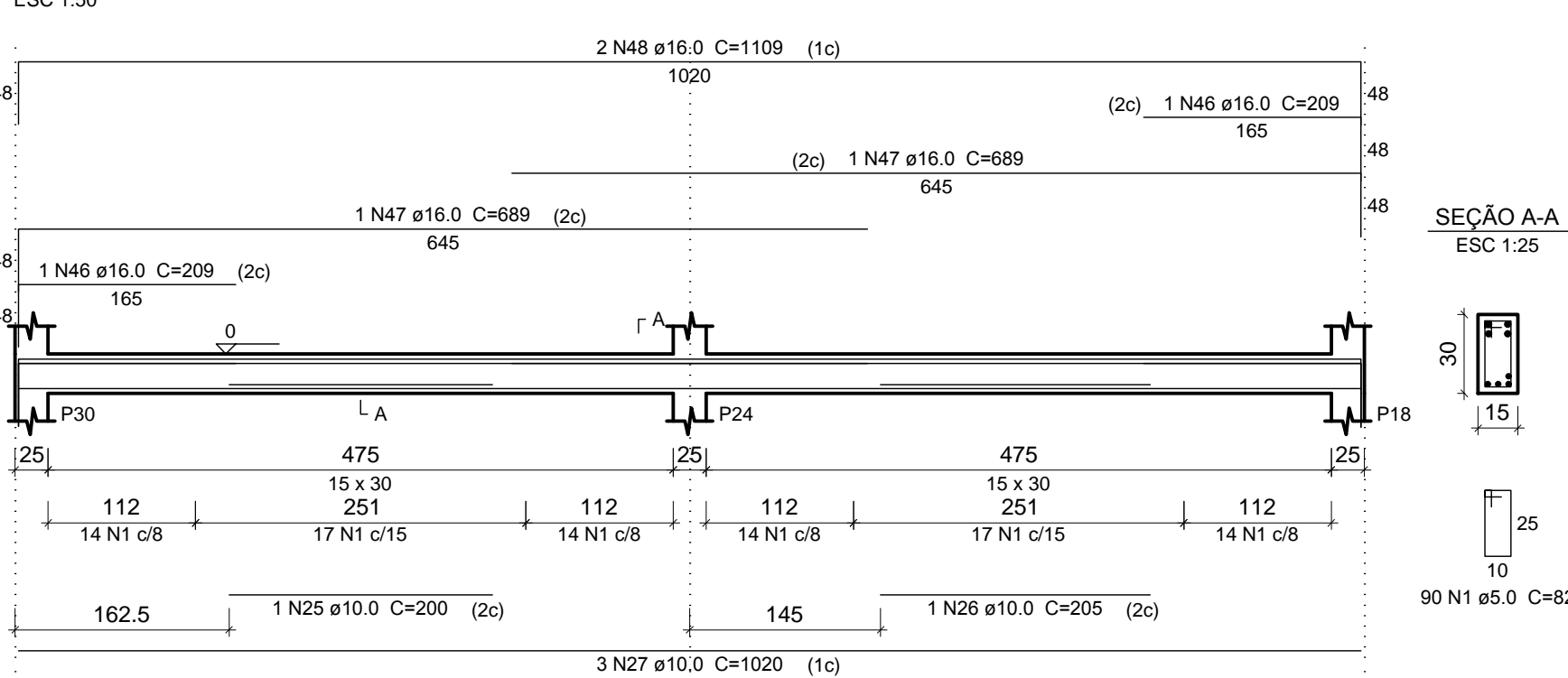
V60 (15 x 30)



V61 (15 x 30)



V62 (15 x 30)



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V51	CA60	1	5.0	389	82
V54	CA50	2	5.0	290	112
V57		3	6.3	20	112
V60		4	8.0	8	325
		5	8.0	4	341
		6	8.0	6	290
		7	8.0	1	512
		8	8.0	5	516
		9	8.0	1	76
		10	8.0	2	496
		11	8.0	2	333
		12	8.0	2	348
		13	8.0	2	513
		14	8.0	2	520
		15	8.0	1	75
		16	8.0	1	108
		17	8.0	2	528
		18	8.0	1	155
		19	8.0	1	508
		20	8.0	2	1020
		21	10.0	2	220
		22	10.0	8	518
		23	10.0	3	300
		24	10.0	2	553
		25	10.0	1	200
		26	10.0	1	205
		27	10.0	3	1020
		28	12.5	1	162
		29	12.5	2	220
		30	12.5	2	240
		31	12.5	1	207
		32	12.5	3	702
		33	12.5	1	742
		34	12.5	3	1103
		35	12.5	1	111
		36	12.5	2	1031
		37	12.5	1	230
		38	12.5	2	1044
		39	16.0	4	529
		40	16.0	1	243
		41	16.0	1	169
		42	16.0	1	694
		43	16.0	1	699
		44	16.0	1	219
		45	16.0	2	1114
		46	16.0	2	209
		47	16.0	2	689
		48	16.0	2	1109
		49	20.0	1	239
		50	20.0	3	1136
		51	20.0	1	236
		52	20.0	1	241
		53	20.0	2	1087

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	22.4	6
	8.0	172.4	74.8
	10.0	100.6	68.2
	12.5	119.4	126.5
	16.0	103.9	180.2
	20.0	63	170.8
CA60	5.0	643.8	109.2

PESO TOTAL (kg)

CA50	626.6
CA60	109.2

Volume de concreto (C-30) = 4.9 m³
Área de forma = 71.48 m²

PREFEITURA MUNICIPAL DE SÃO JOÃO DO PARAÍSO/MG



OBRA/SERVIÇO:	MERCADO MUNICIPAL
PROPRIETÁRIO:	PREFEITURA MUNICIPAL DE SÃO JOÃO DO PARAÍSO/MG
CNPJ:	24.791.154/0001-07
RESPONSÁVEL TÉCNICO:	MÔNICA CRISTINE MENDES PREFEITA MUNICIPAL
ENDEREÇO:	PRAÇA DO MERCADO S/Nº - SEDE DO MUNICÍPIO - SÃO JOÃO DO PARAÍSO/MG
PROJETO:	PROJETO ESTRUTURAL
RESPONSÁVEL TÉCNICO:	MARCOS PAULO MADUREIRA LOPES ENGENHEIRO CIVIL - CREA MG: 224.188/D
ÁREAS:	RRT Nº:
- ÁREA PAVIMENTO TERREO: 1.200,00 M2	
- ÁREA SUB-SOLO (CONSTRUÍDA): 714,00 M2	
- ÁREA TOTAL EDIFICADA: 1.348,74 M2	
- ÁREA TOTAL (INCLUSO PILOTIS) = 1.914,00 M2	PROPOSTA Nº:
DATA:	ESCALA:
MARÇO/2020	INDICADA
CONTEÚDO:	
VIGAS NÍVEL MERCADO	