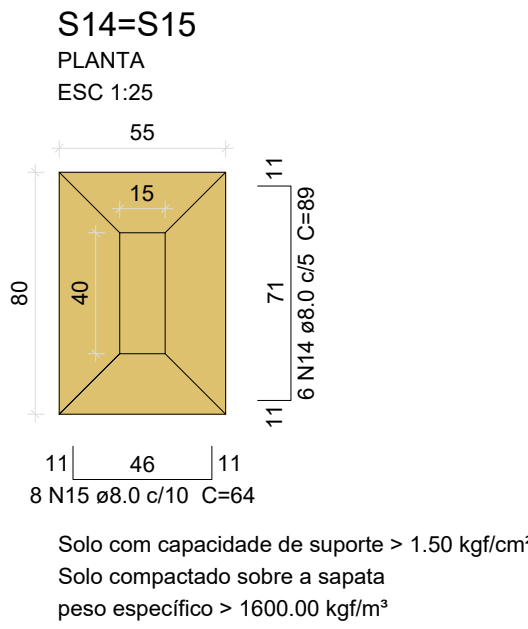
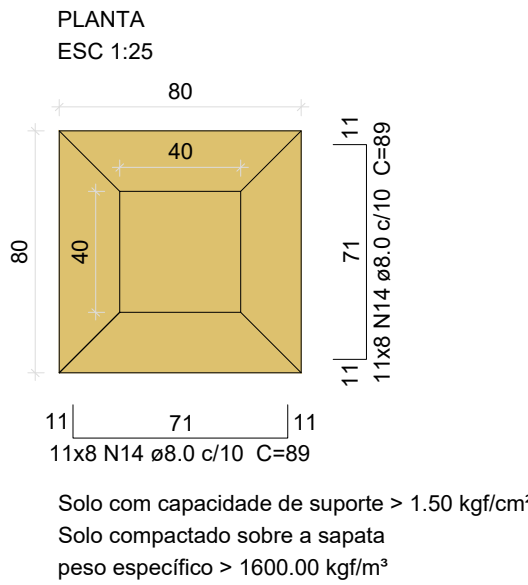
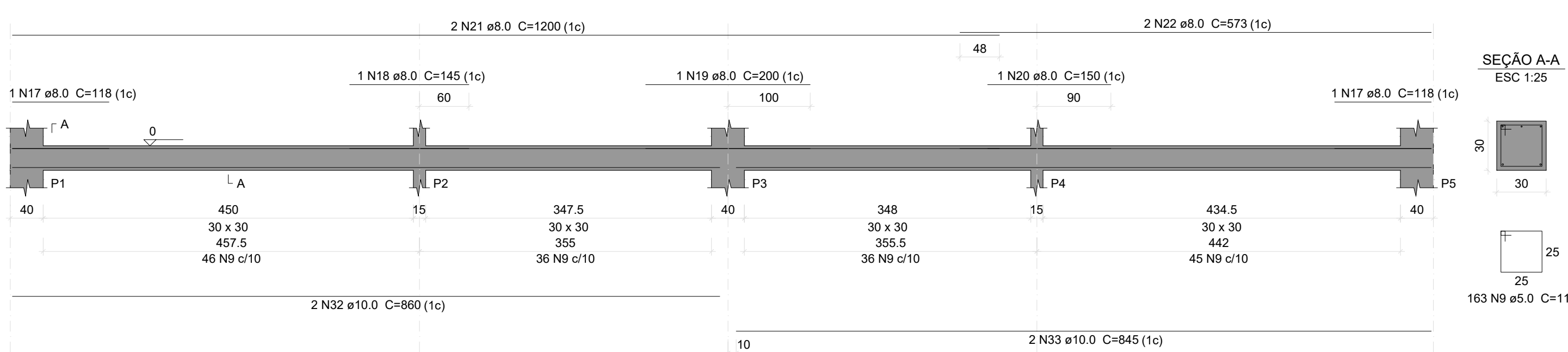


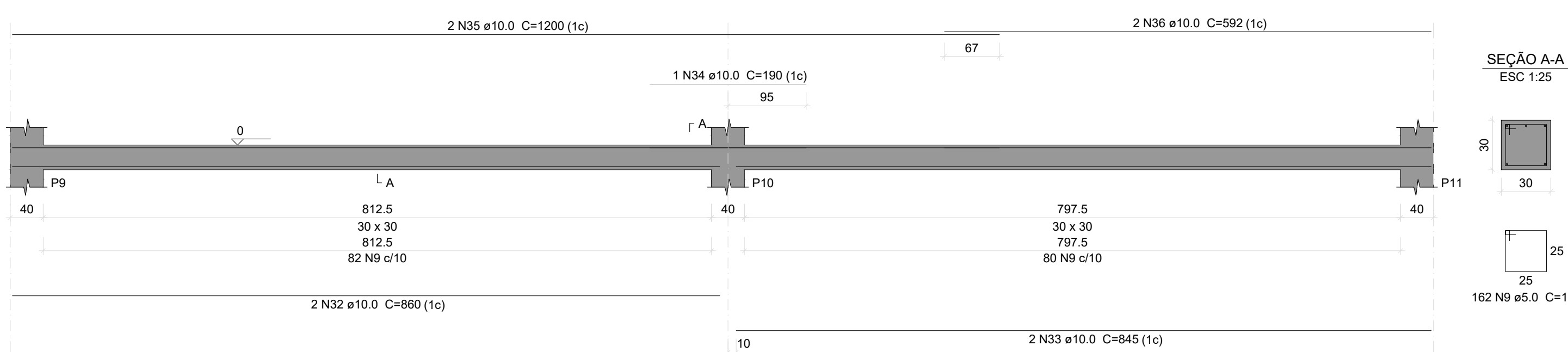
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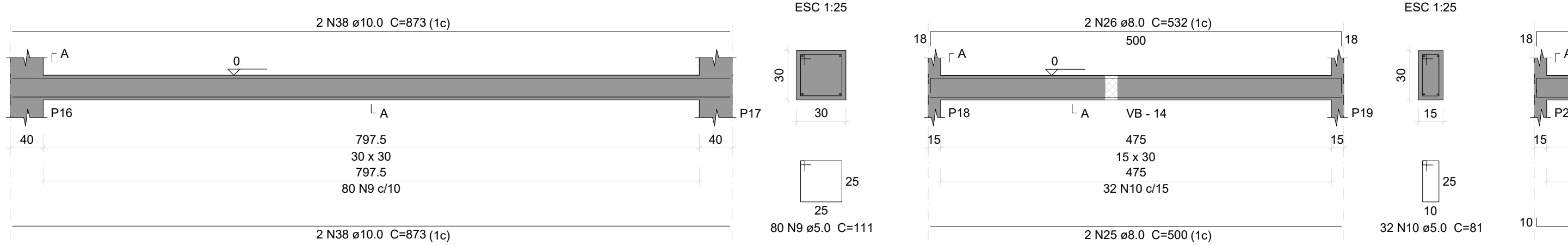
VB - 1
ESC 1:50



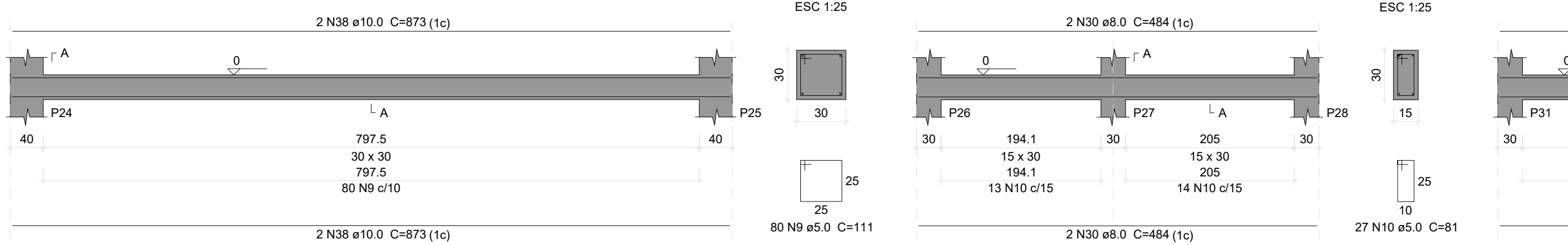
VB - 3
ESC 1:50



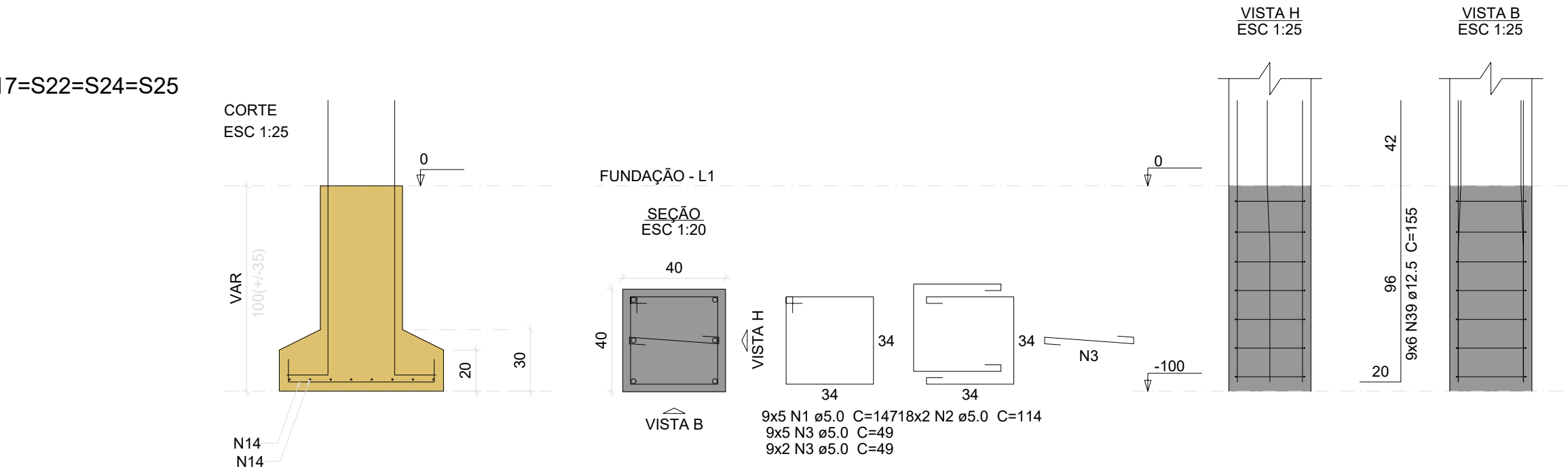
VB - 6
ESC 1:50



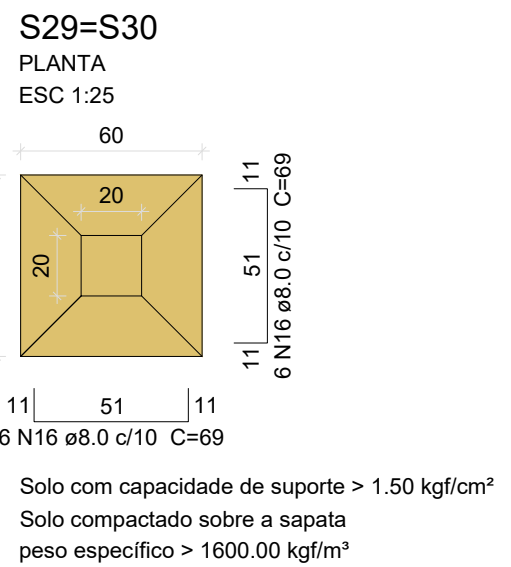
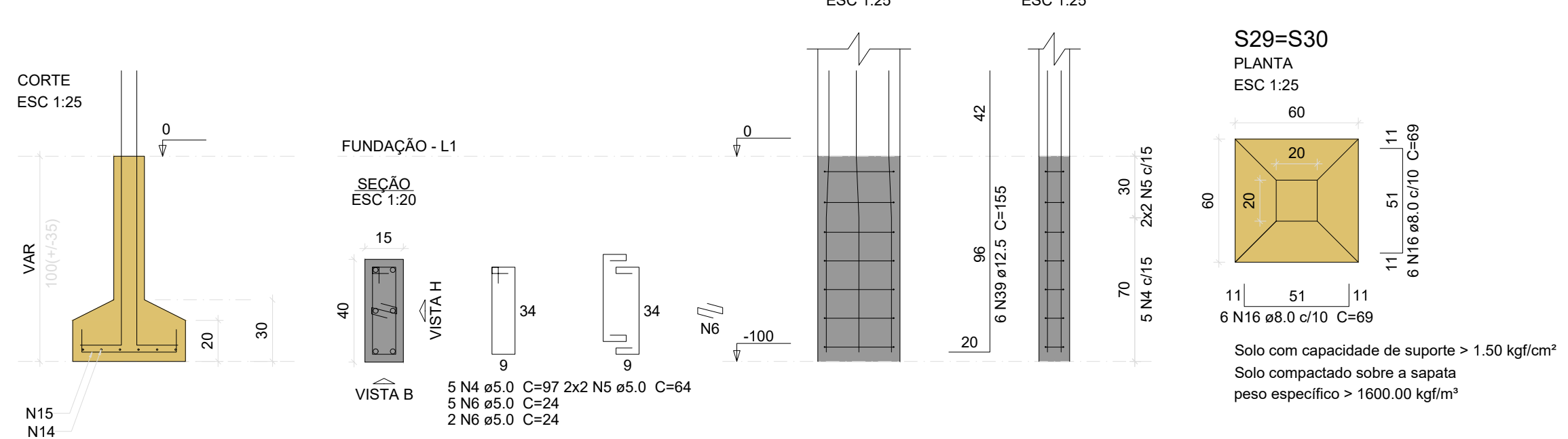
VB - 10
ESC 1:50



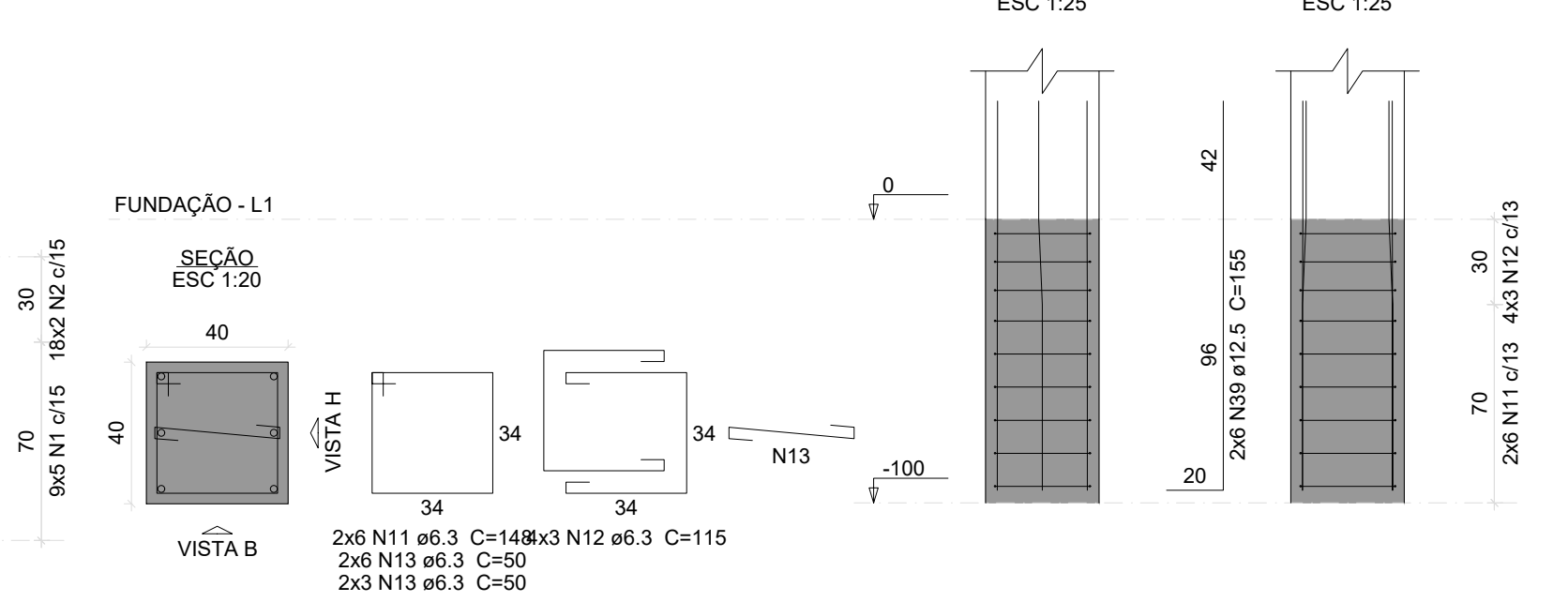
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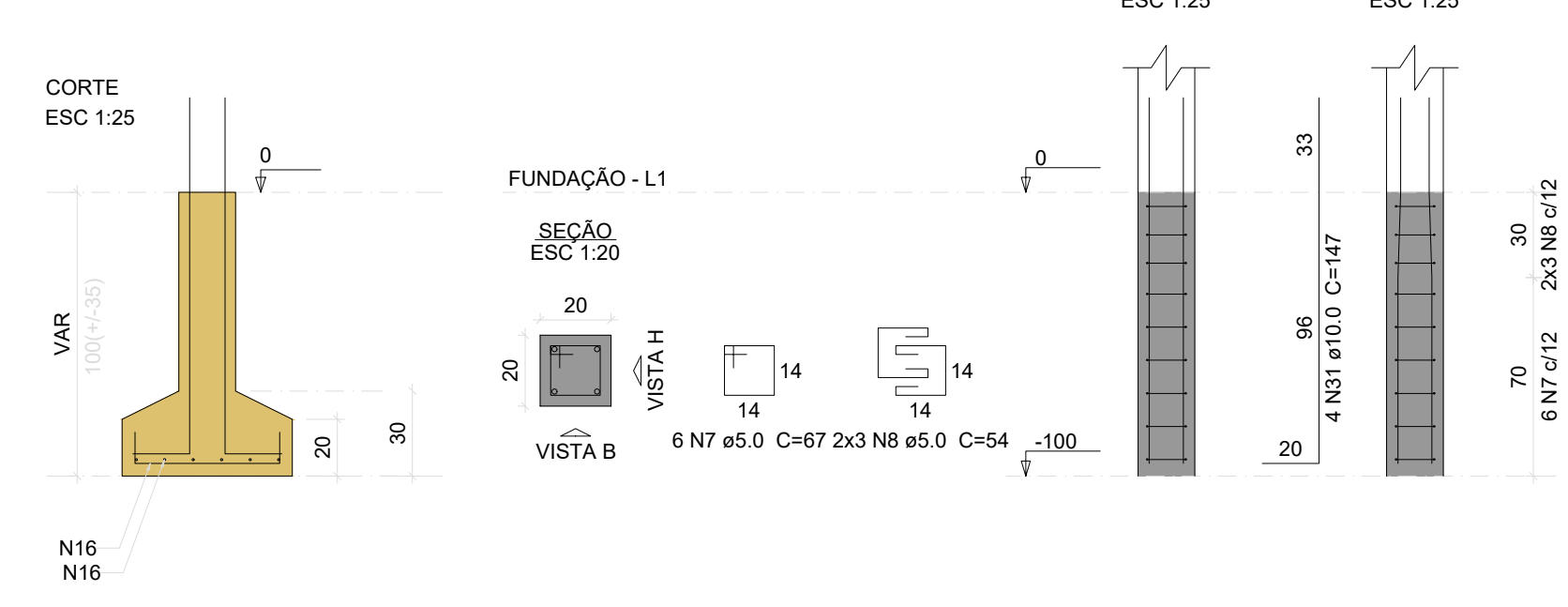
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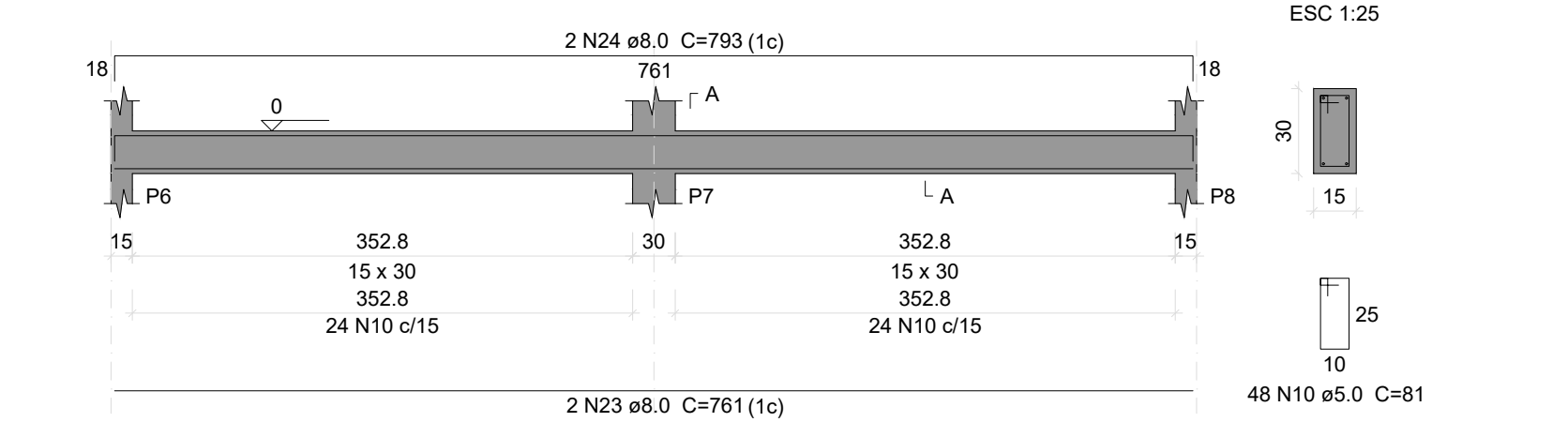
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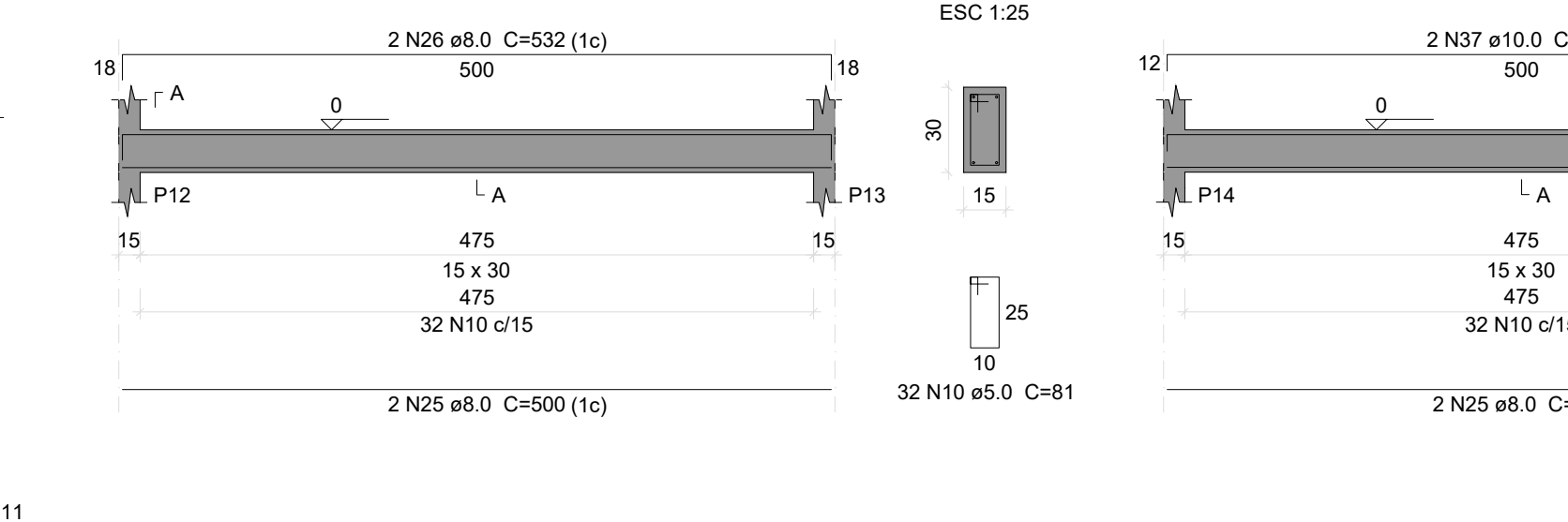
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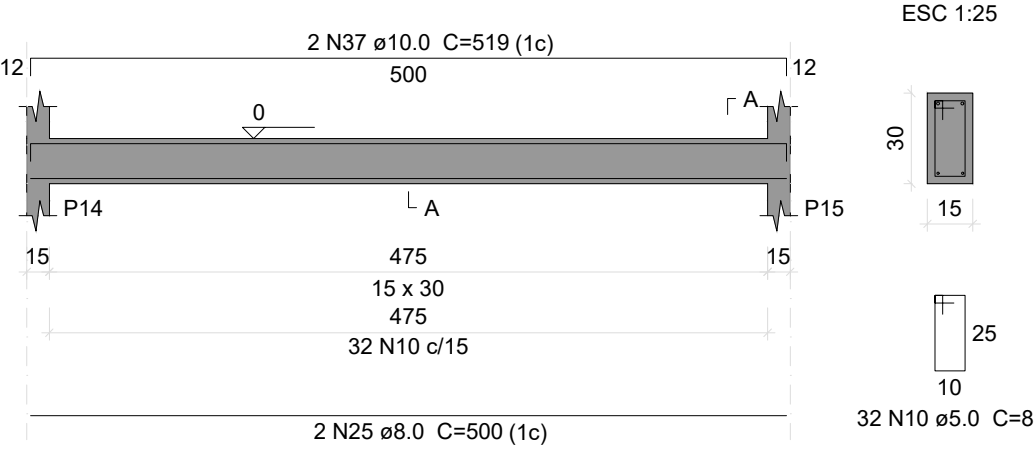
VB - 2
ESC 1:50



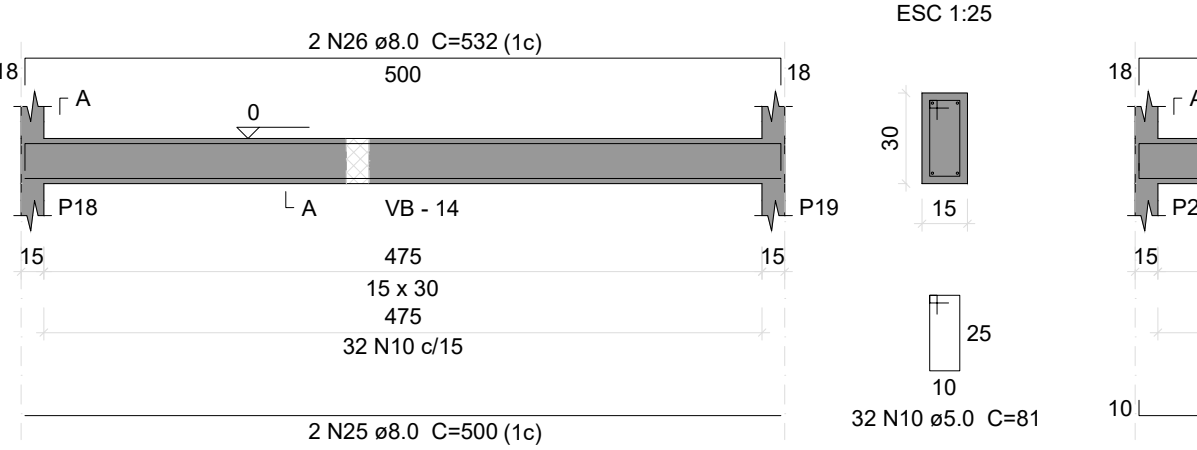
VB - 4
ESC 1:50



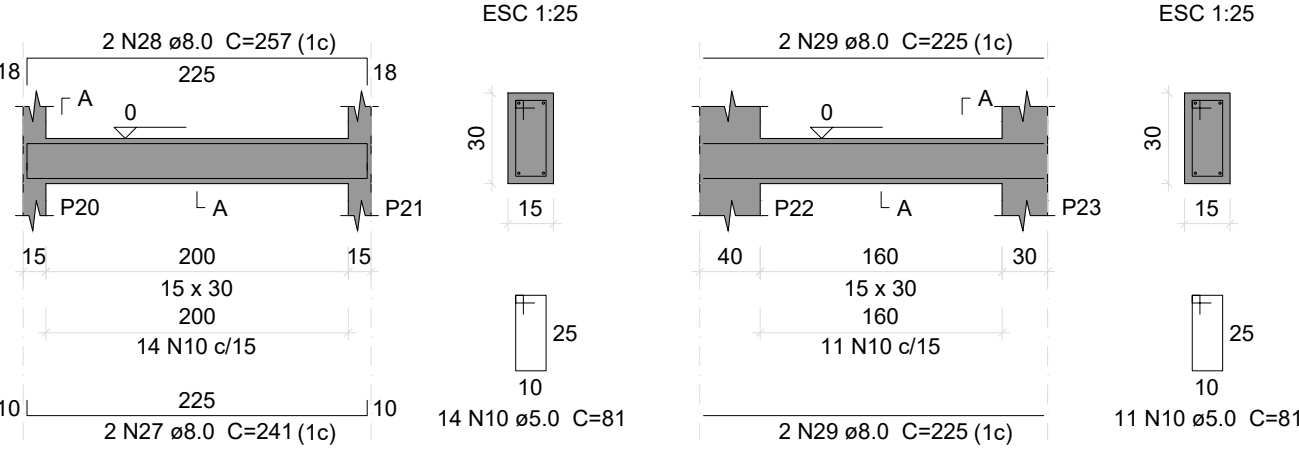
VB - 5
ESC 1:50



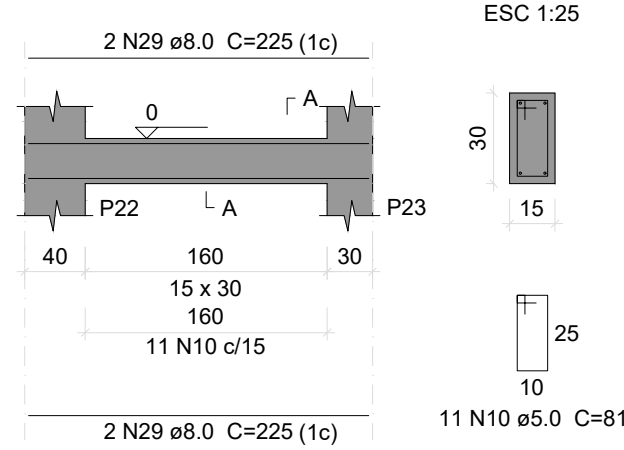
VB - 7
ESC 1:50



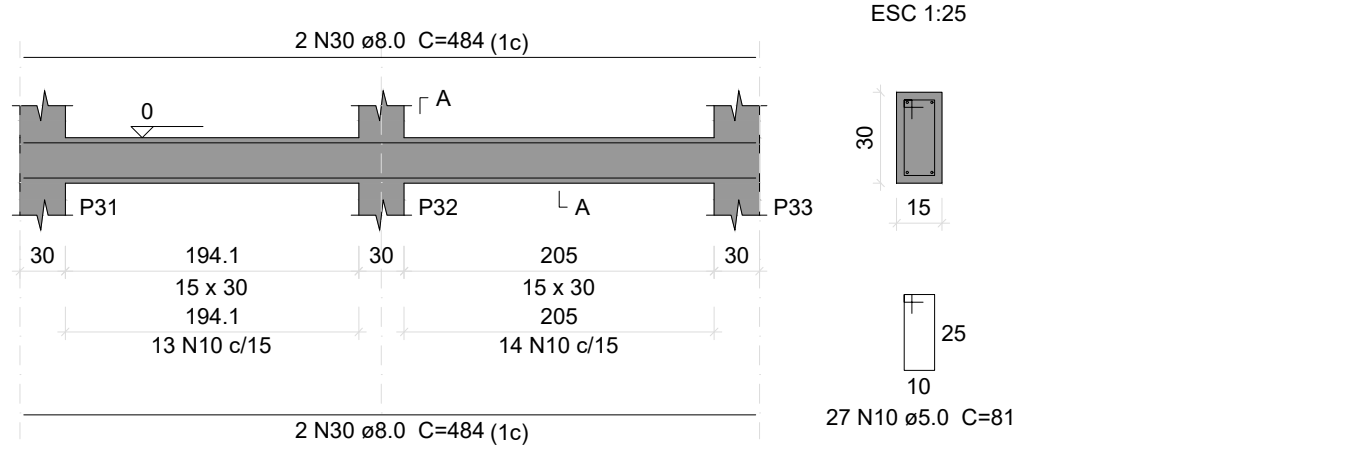
VB - 8
ESC 1:50



VB - 9
ESC 1:50



VB - 12
ESC 1:50



Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	45	147	6615
	2	5.0	36	114	4104
	3	5.0	63	49	3087
	4	5.0	10	97	970
	5	5.0	8	64	512
	6	5.0	14	24	336
	7	5.0	12	67	804
	8	5.0	12	54	648
	9	5.0	485	111	53835
	10	5.0	223	81	18063
CA50	11	6.3	12	148	1776
	12	6.3	12	115	1380
	13	6.3	18	50	900
	14	8.0	188	89	16732
	15	8.0	16	64	1024
	16	8.0	24	69	1656
	17	8.0	2	118	236
	18	8.0	1	145	145
	19	8.0	1	200	200
	20	8.0	1	150	150
	21	8.0	2	1200	2400
	22	8.0	2	573	1146
	23	8.0	2	761	1522
	24	8.0	2	793	1586
	25	8.0	6	500	3000
	26	8.0	4	532	2128
	27	8.0	2	241	482
	28	8.0	2	257	514
	29	8.0	4	225	900
	30	8.0	8	484	3872
	31	10.0	8	147	1176
	32	10.0	4	860	3440
	33	10.0	4	845	3380
	34	10.0	1	190	190
	35	10.0	2	1200	2400
	36	10.0	2	592	1184
	37	10.0	2	519	1038
	38	10.0	8	873	6984
	39	12.5	78	155	12090

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)	PESO + 10 % (kg)
CA50	6.3	40.6	4	10.9
	8.0	377	35	163.6
	10.0	198	19	134.2
CA60	12.5	120.9	12	128.1
	5.0	889.8	-	150.9
PESO TOTAL (kg)				
CA50	436.9			
CA60	150.9			

Volume de concreto (C-30) = 9.4 m³
Área de forma = 92.12 m²

PROJETO ESTRUTURAL

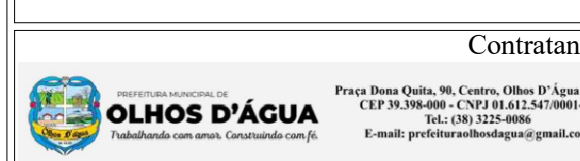
PROJETO DE REFORMA E AMPLIAÇÃO DO CEMEI MARIA DA GLÓRIA ALVES

Descrição do Projeto: Armação sapatas, vigas baldrames e resumo de aço.	Responsável Técnico: KAREN MARIANA SOARES VIEIRA 09588911680 Assinado de forma digital por KAREN MARIANA SOARES VIEIRA 09588911680 Data: 2026.03.27 13:14:25 -03'00'	
	Káren Mariana Soares Vieira Engenheiro(a) Civil - Crea: 532.425-D/MG Contratante: Rodrigo Vieira de Matos Prefeito Municipal de Olhos d'Água-MG	

Área (m ²): 708,13 m ²	Tipo da Edificação: Infraestrutura	Prancha:
Data: 25 de março de 2026.	Art.:	
Referência / Número da pasta: VLK - 3PSP - OLH -09	Escala: Indicada	

Contratada: (38) 9 9977-6300

ENGENHARIA



Contratante: (38) 3225-0086
CNPJ: 01.612.547/0001-00
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Praça Dona Quita, nº90, Centro
Olhos d'Água-MG