

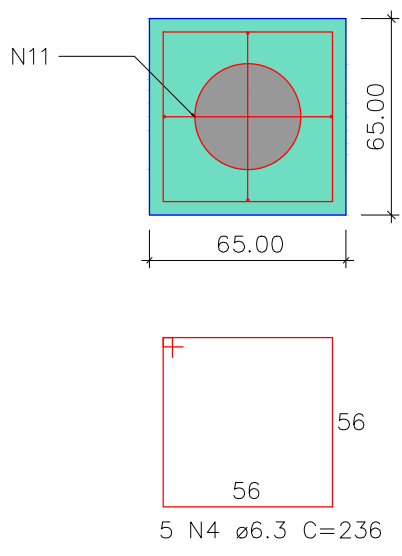
B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12

=B13=B14=B15

1xC35

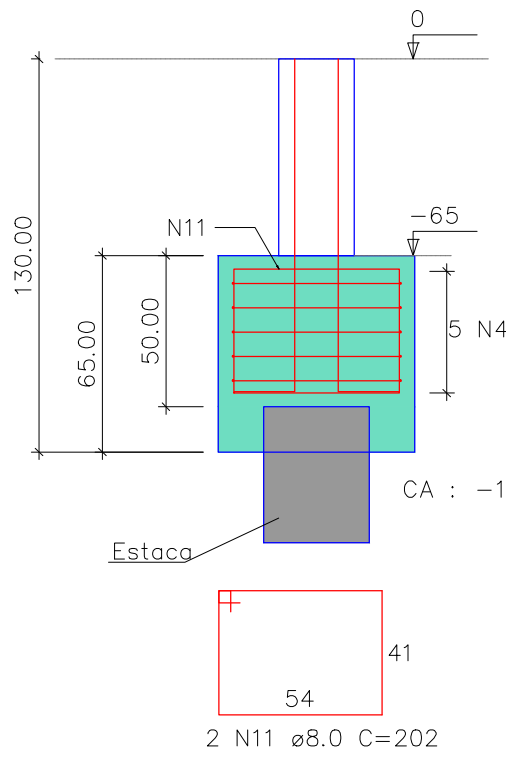
PLANTA

Esc. 1:25

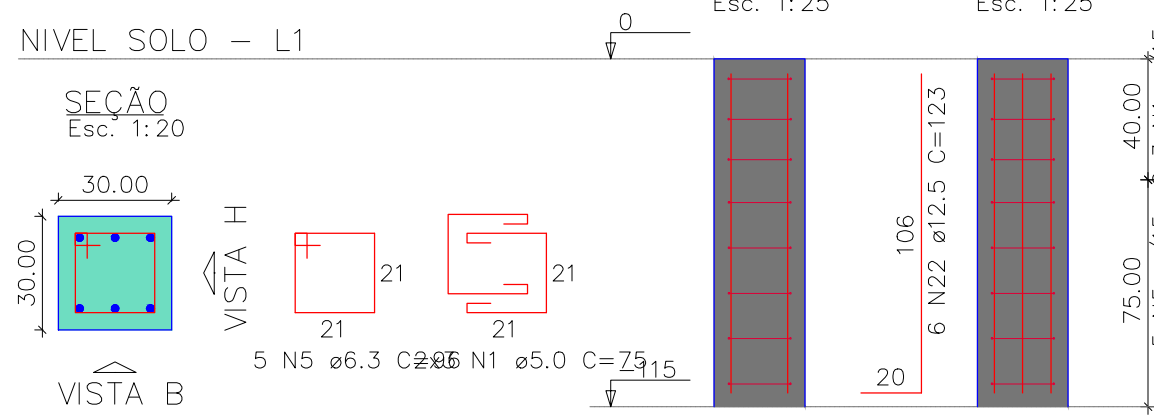


CORTE

Esc. 1:25

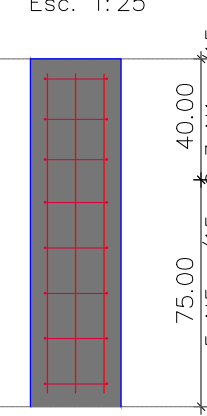


P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12

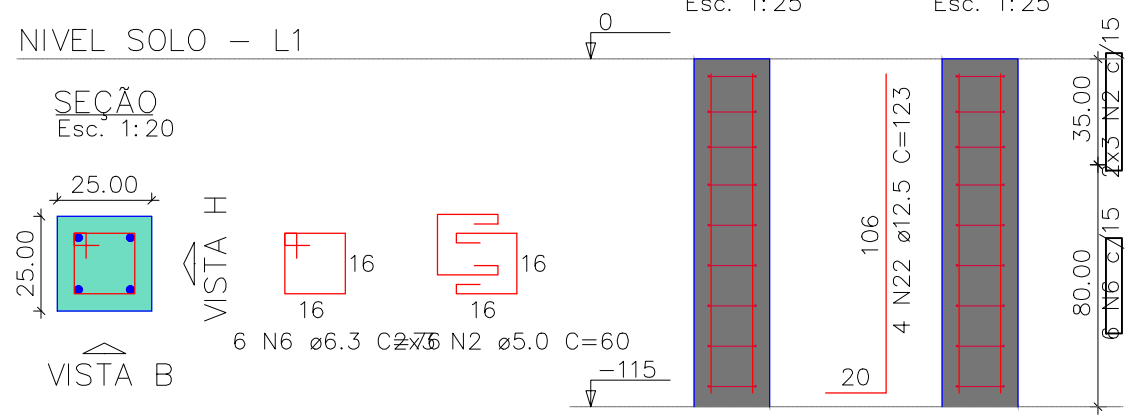


VISTA B

Esc. 1:25

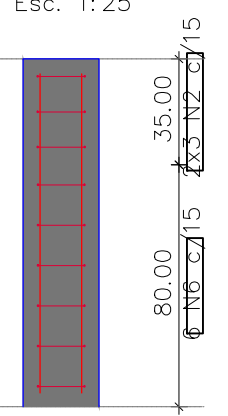


P13=P14=P15



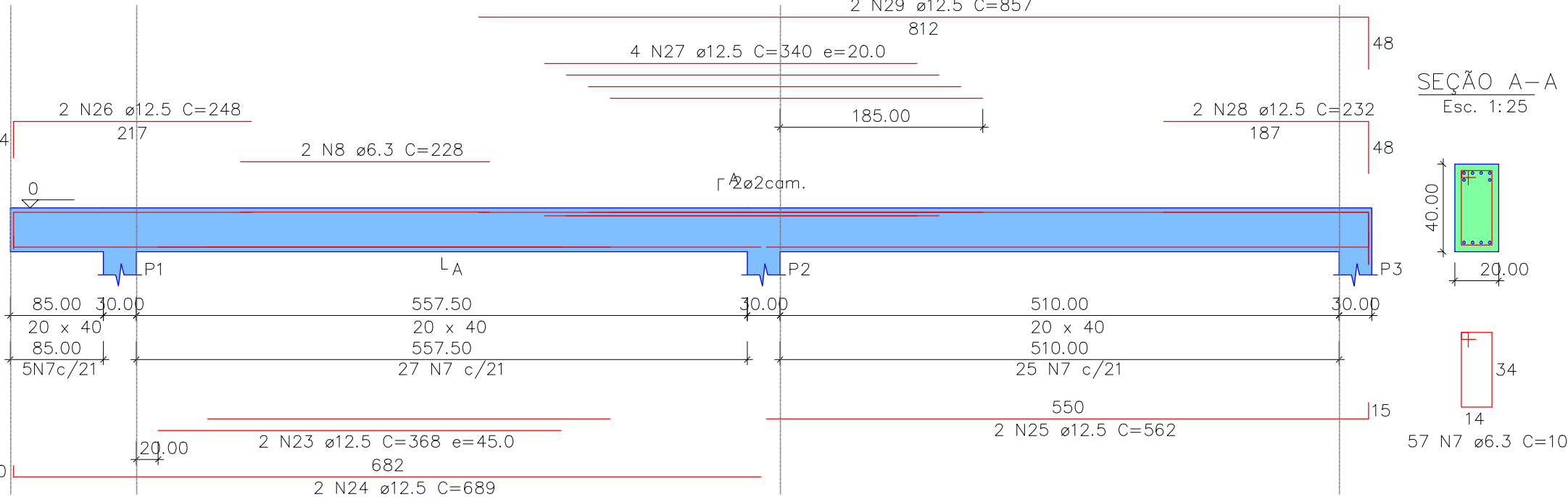
VISTA B

Esc. 1:25



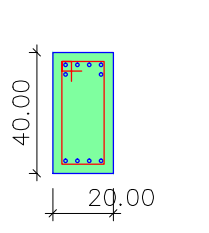
V1 (20 x 40)

Esc. 1:50



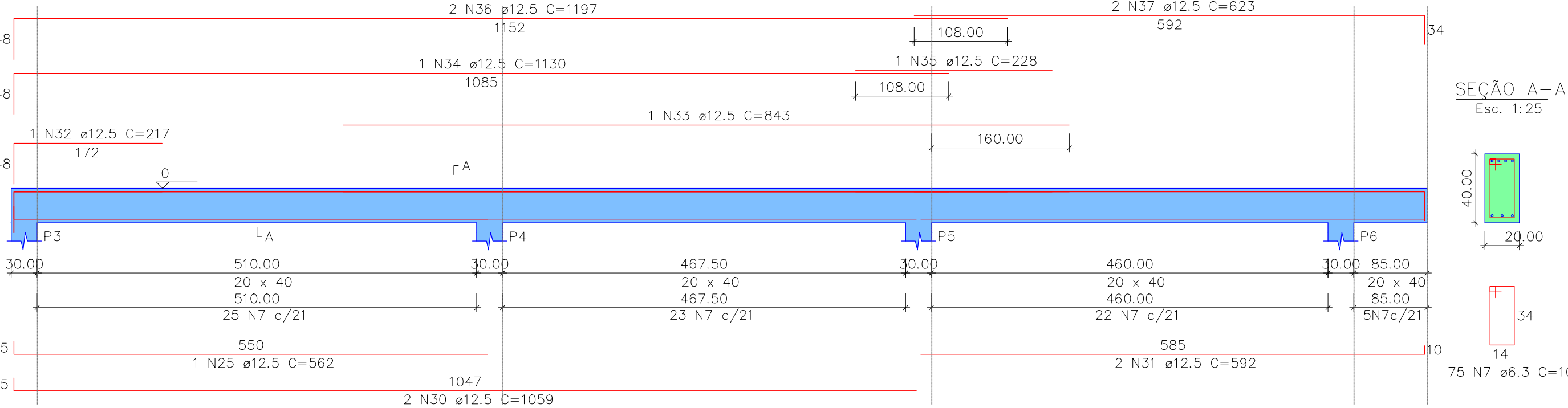
SEÇÃO A-A

Esc. 1:25



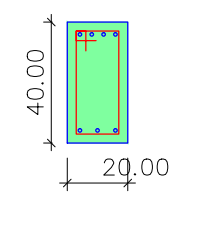
V2 (20 x 40)

Esc. 1:50



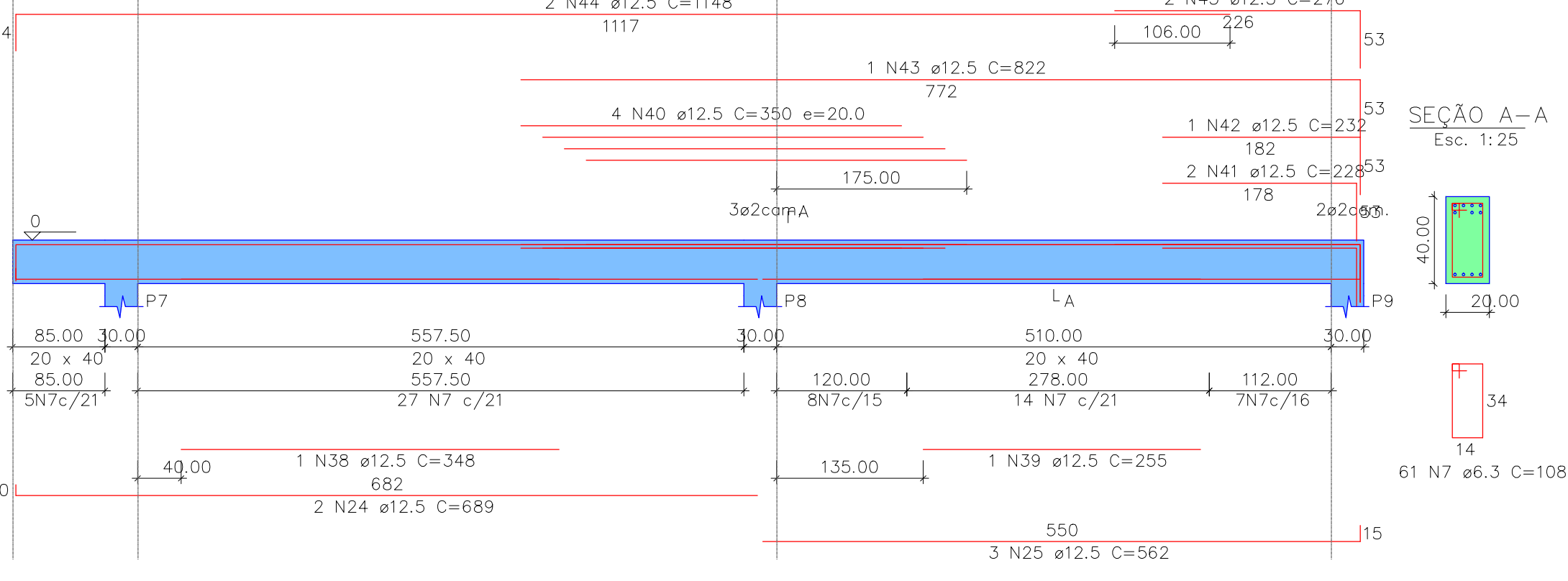
SEÇÃO A-A

Esc. 1:25



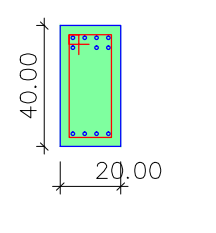
V3 (20 x 40)

Esc. 1:50



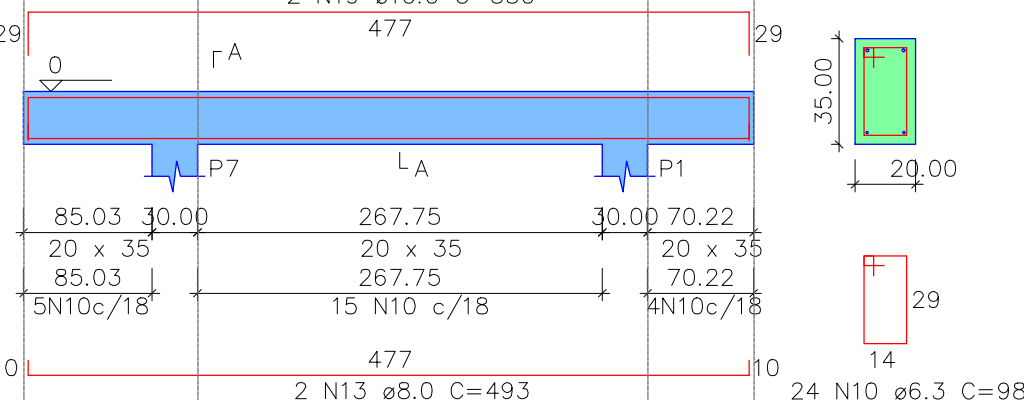
SEÇÃO A-A

Esc. 1:25



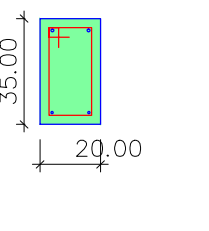
V6 (20 x 35)

Esc. 1:50



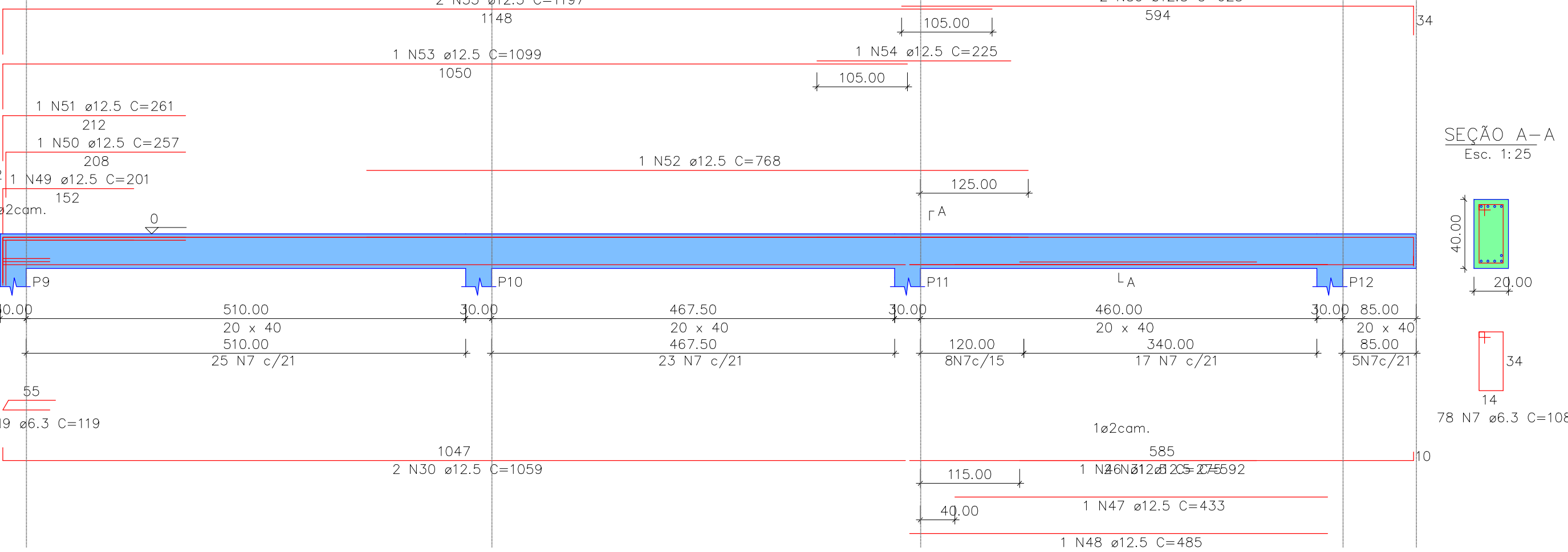
SEÇÃO A-A

Esc. 1:25



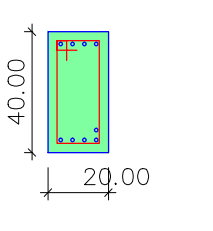
V4 (20 x 40)

Esc. 1:50



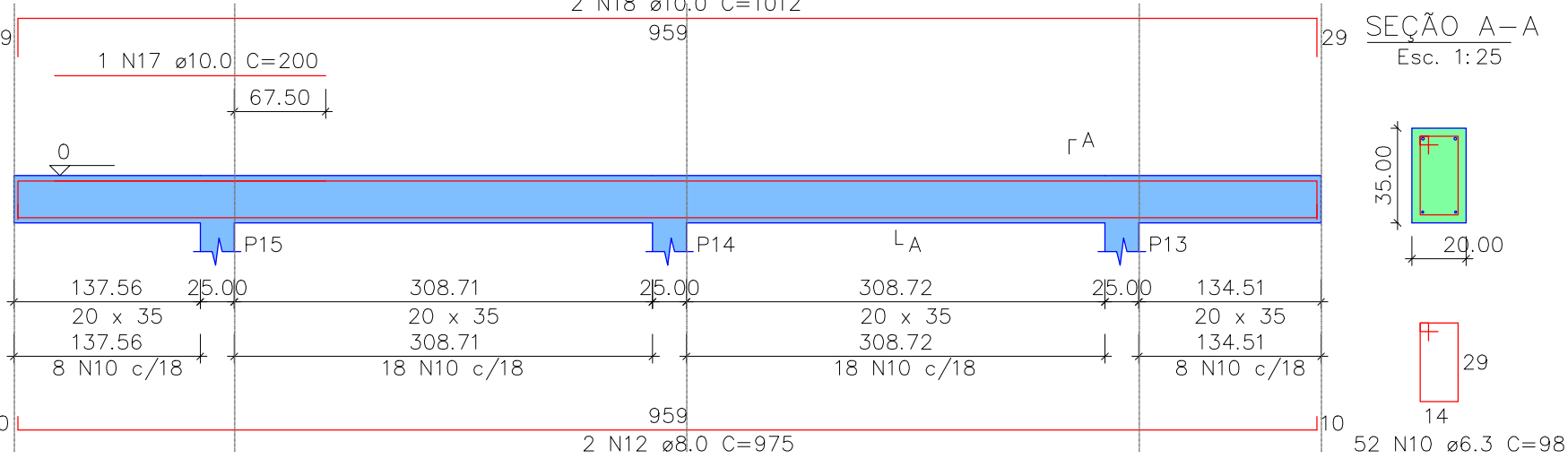
SEÇÃO A-A

Esc. 1:25



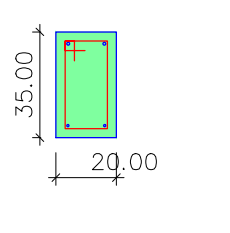
V5 (20 x 35)

Esc. 1:50



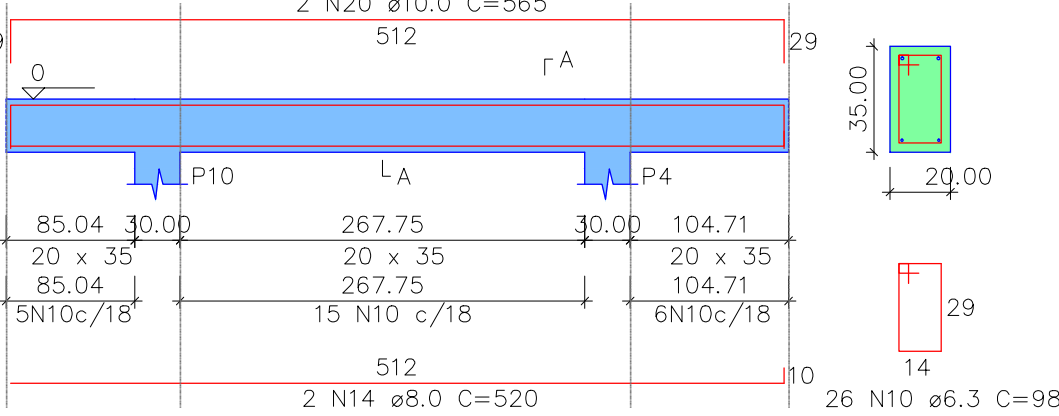
SEÇÃO A-A

Esc. 1:25



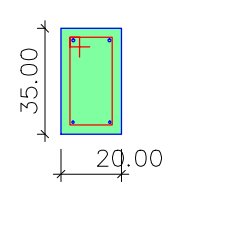
V9 (20 x 35)

Esc. 1:50



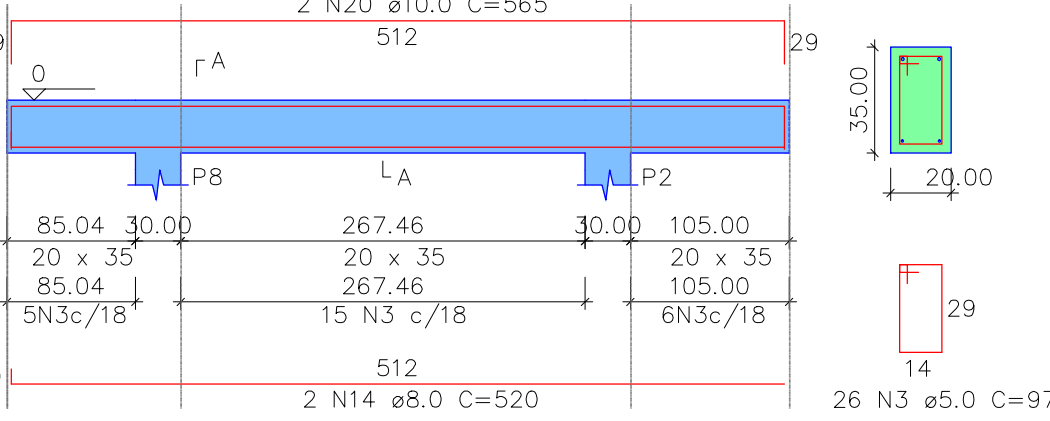
SEÇÃO A-A

Esc. 1:25



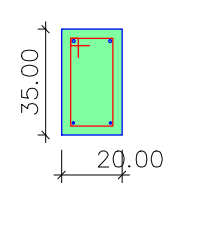
V7 (20 x 35)

Esc. 1:50



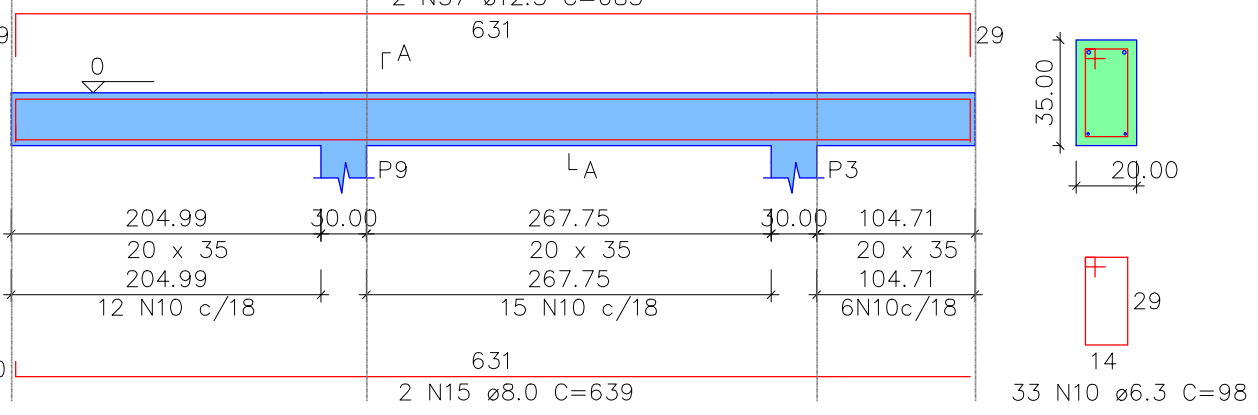
SEÇÃO A-A

Esc. 1:25



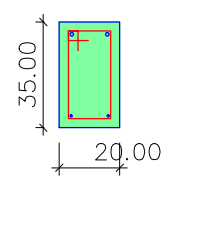
V8 (20 x 35)

Esc. 1:50



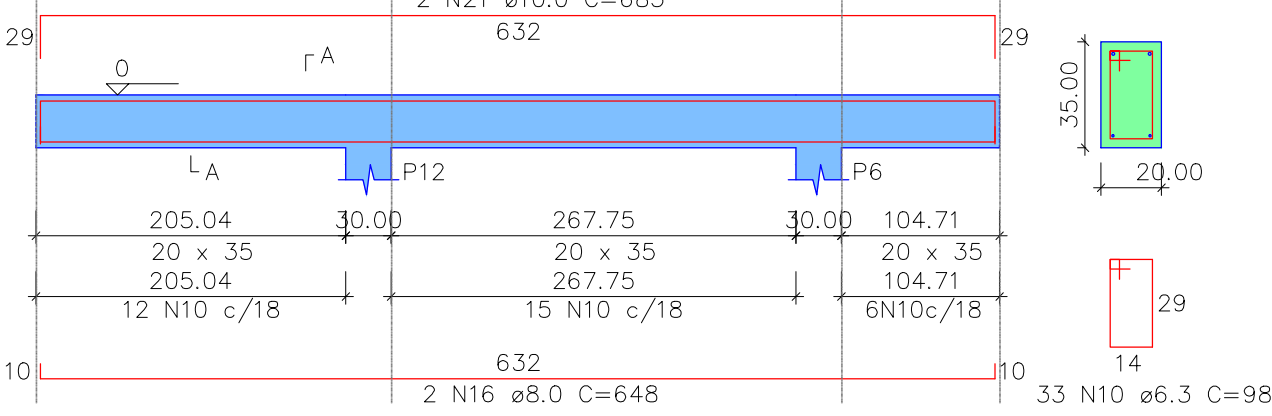
SEÇÃO A-A

Esc. 1:25



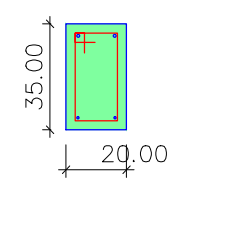
V11 (20 x 35)

Esc. 1:50



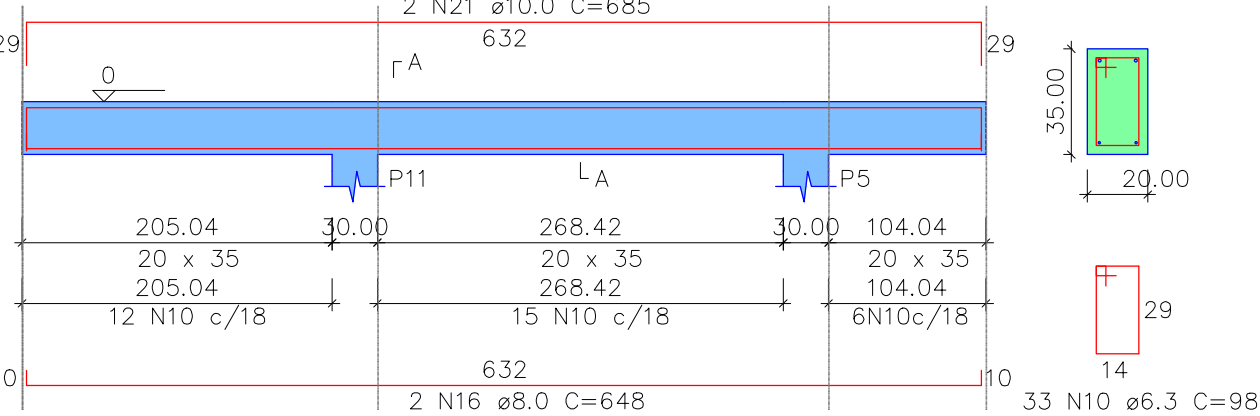
SEÇÃO A-A

Esc. 1:25



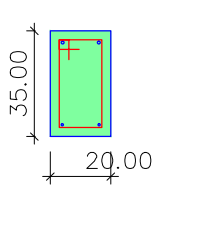
V10 (20 x 35)

Esc. 1:50



SEÇÃO A-A

Esc. 1:25



RESUMO DO AÇO					
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	UNIT	PESO + 10% (kg)
CA50	6.3	744.9	69	12 m	200.5
	8.0	149.5	14	12 m	64.9
	10.0	82.8	8	12 m	56.2
CA60	12.5	492.7	46	12 m	522.1
	5.0	90	-	rolo (170 kg)	15.3
PESO TOTAL (kg)					
CA50		Volume de concreto (C-20) = 13.05 m³			
CA60		Área de forma = 142.61 m²			

RELAÇÃO DO AÇO					
AÇO	N	DIAM (mm)	QUANT	CUNIT (cm)	C.TOTAL (cm)
15x815 V1 V4 V7 V10	1	5.0	72	75	5400
	2	5.0	18	60	1080
	3	5.0	26	97	2522
	4	6.3	75	236	17700
	5	6.3	60	96	5760
	6	6.3	18	76	1368
	7	6.3	108	271	29568
	8	6.3	2	228	456
	9	6.3	2	119	238
	10	6.3	201	86	19668
	11	8.0	30	202	6060
	12	8.0	2	975	1950
	13	8.0	2	493	986
	14	8.0	4	520	2080
	15	8.0	2	638	1276
15x815 V2 V5 V8 V9 V11	16	8.0	4	648	2592
	17	10.0	1	200	200
	18	10.0	2	1012	2024
	19	10.0	2	530	1060
	20	10.0	4	565	2260
	21	10.0	4	685	2740
	22	12.5	84	123	10332
	23	12.5	2	368	736
	24	12.5	4	689	2756
	25	12.5	6	562	3372
	26	12.5	2	248	496
	27	12.5	4	340	1360
	28	12.5	2	232	464
	29	12.5	2	857	1714
	30	12.5	4	1059	4236

ASSINATURAS	
ZILMA MÔNICA SANSÃO BENEVENUTTI SECRETÁRIA MUNICIPAL DE EDUCAÇÃO CPF: 816.925.269-00 zilma@gaspar.sc.gov.br	EDMUNDO DE J. ARAÚJO JR. ENGENHEIRO CIVIL CREA-SC: 053875-8 CPF: 648.748.859-34 edmundinho@gaspar.sc.gov.br
INTERVENÇÃO: REFORMA E AMPLIAÇÃO DIREITOS AUTORAIS RESERVADOS POR LEI.	
PREFEITURA MUNICIPAL DE GASPAR SECRETARIA MUNICIPAL DE EDUCAÇÃO - SEMED RUA SÃO PEDRO Nº 128 - CENTRO - GASPAR - CEP 89110-082	
CDI DORVALINA FACHINI	ESTRUTURAL
ENGENHEIRO: RUA PREFEITO JULIO SCHRAMM, Nº 635 - BAIRRO: SETE DE SETEMBRO - GASPAR/SC	ESCALA: INDICADA
CONTEÚDO: DETALHES DOS BLOCOS, PILARES E VIGAS (RADIER)	FRANCHA: ER04
Nº DE FRANCHAS: 06	DESENHISTA: EDMUNDO
DATA: 04/02/2019	