

P1=P2=P3=P4=P5=P6=P7=P8=P9=P11=P12=P13
=P14=P15=P16=P17=P18=P19=P20=P21=P22
=B22=B23=B24=P25=P26=P27=P28=P29=P30=P31
=P32=P33=P34=P35=P36=P37=P38=P39=P40
=P41=P42=P43=P44=P45=P46=P47=P48

B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12
=B13=B14=B15=B16=B17=B18=B19=B20=B21
=B22=B23=B24=B25=B26=B27=B28=B29=B30
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=B40=B41=B42=B43=B44=B45=B46=B47=B48
1XC20

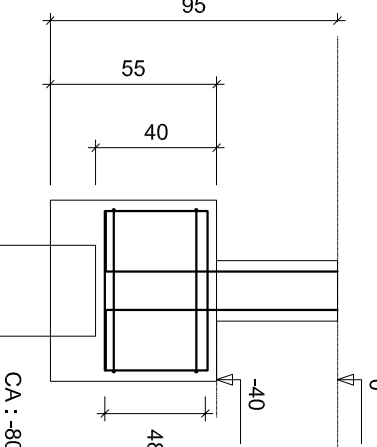
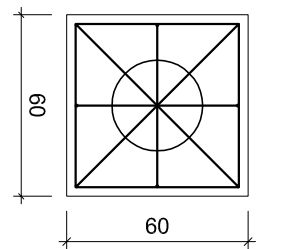
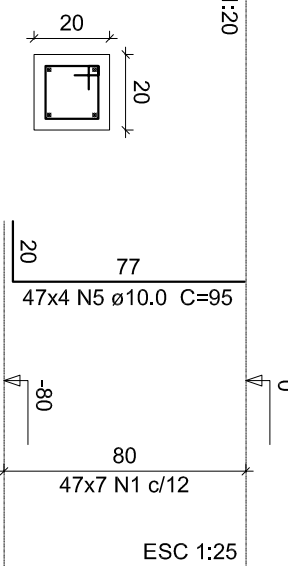
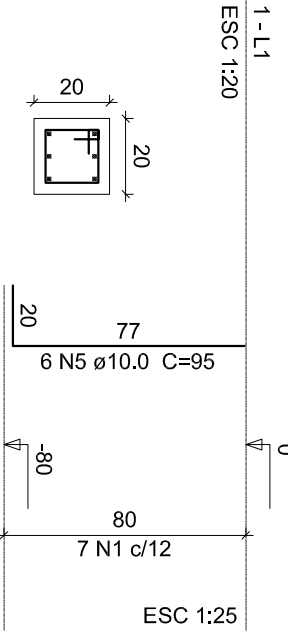
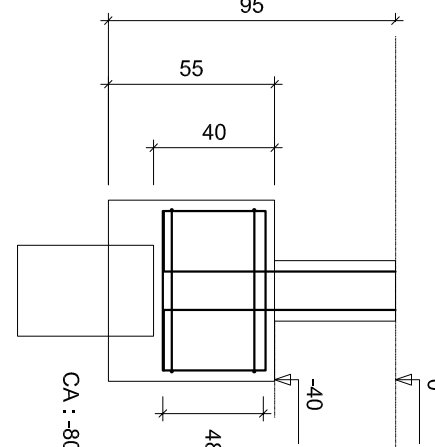
Relação do aço						
AÇO	N	DIAM (mm)	QUANT (Barra)	UNIT (cm)	C.TOTAL (cm)	
CA60	1	5,0	336	68	22948	
CA50	2	6,3	384	228	87552	
CA50	3	6,3	96	228	21888	
CA50	4	6,3	336	72	24192	
CA50	5	10,0	194	96	18430	

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (cm)	PESO * 10 % (kg)
CA50	6,3	1297,2	341,1
CA60	5,0	184,3	125
PESO TOTAL (kg)		228,5	38,7
CA50	486,1		
CA60	38,7		

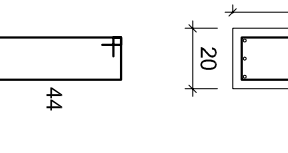
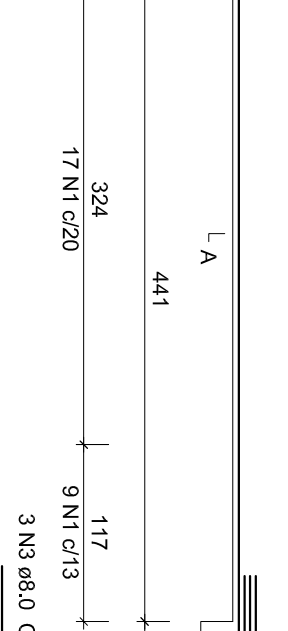
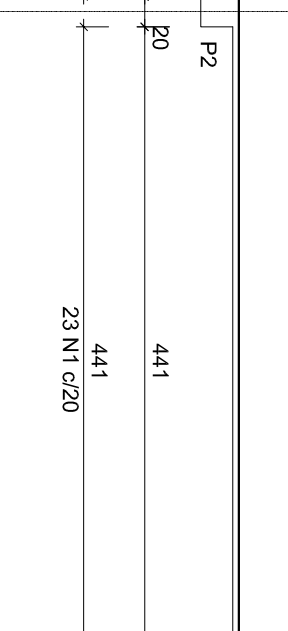
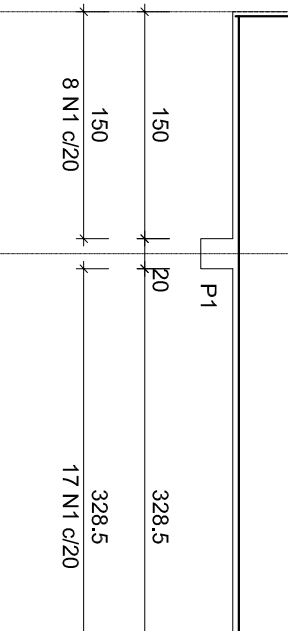
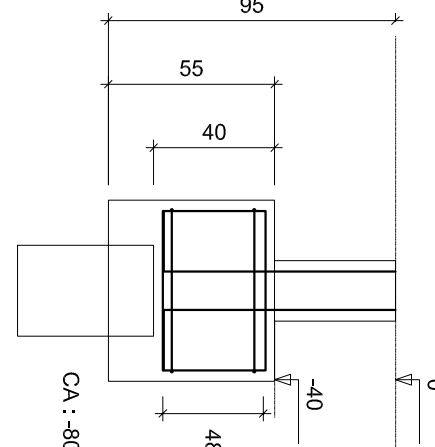
Volume de concreto (C-25) = 10,53 m³

Area de forma = 94,08 m²



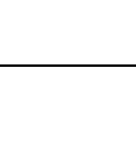
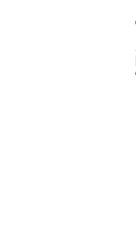
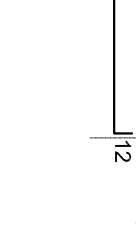
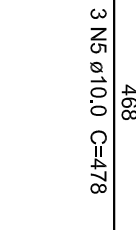
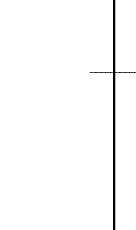
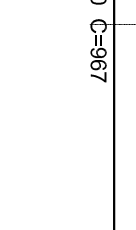
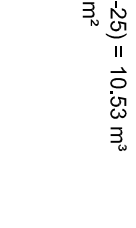
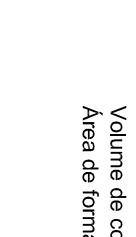
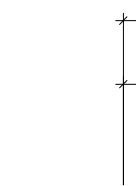
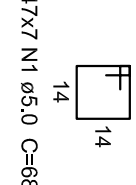
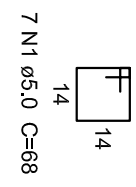
Volume de concreto (C-25) = 10,53 m³

Area de forma = 94,08 m²



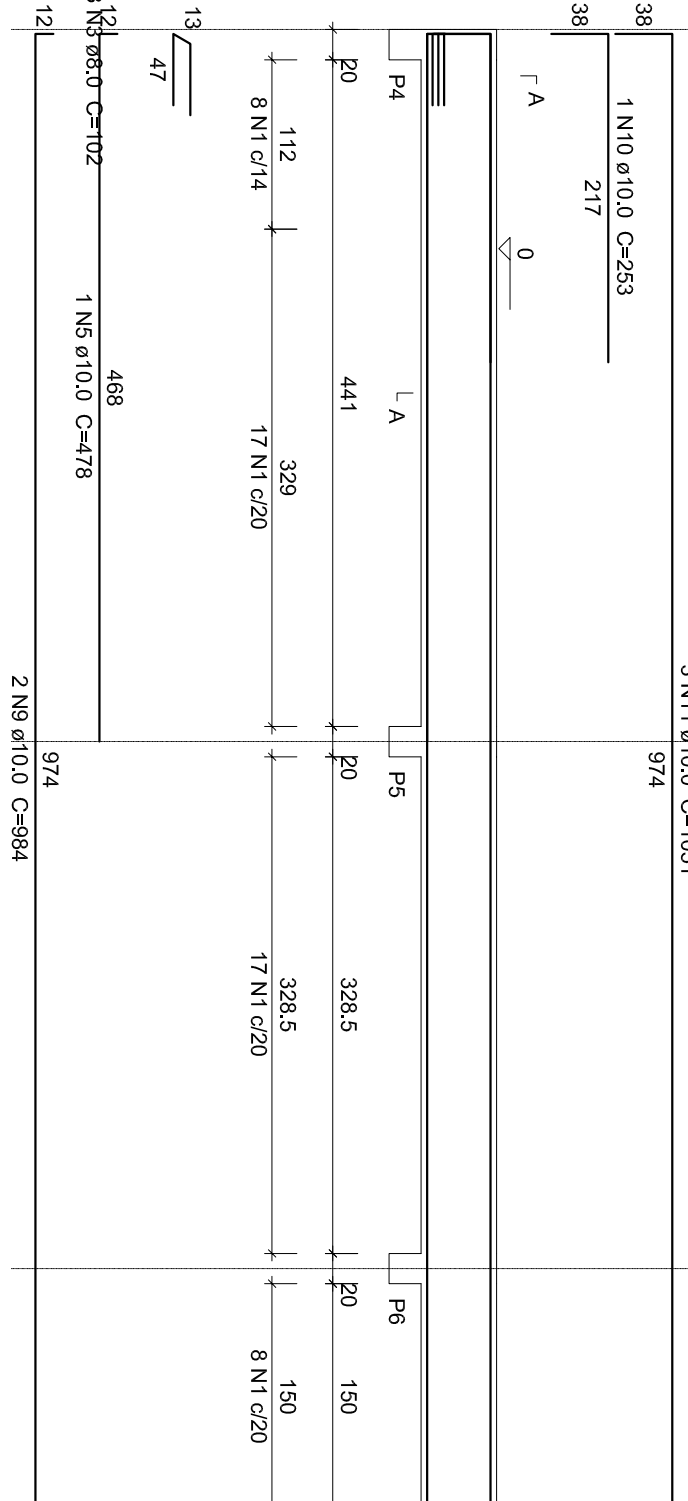
Volume de concreto (C-25) = 10,53 m³

Area de forma = 94,08 m²



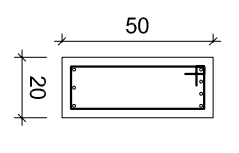
V2

ESC 1:50



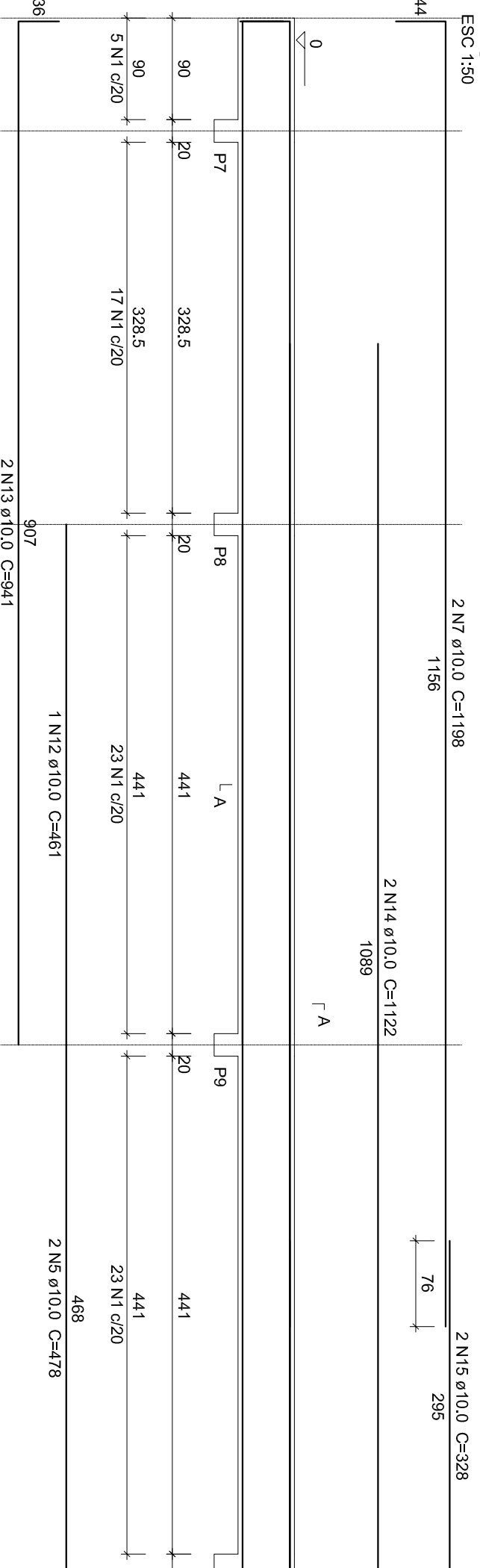
SEÇÃO A-A

ESC 1:25



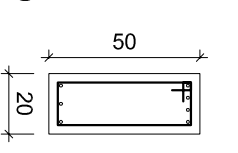
V3

ESC 1:50



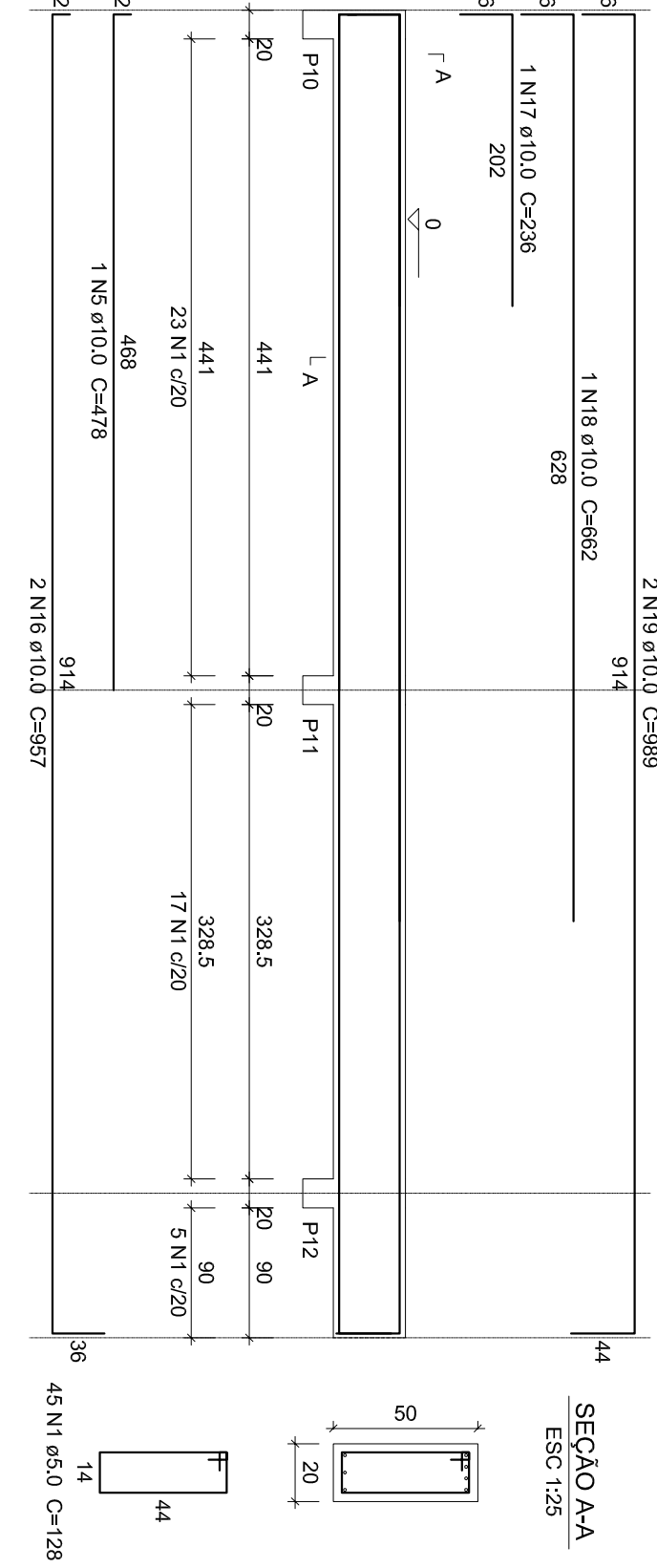
SEÇÃO A-A

ESC 1:25



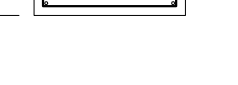
V4

ESC 1:50



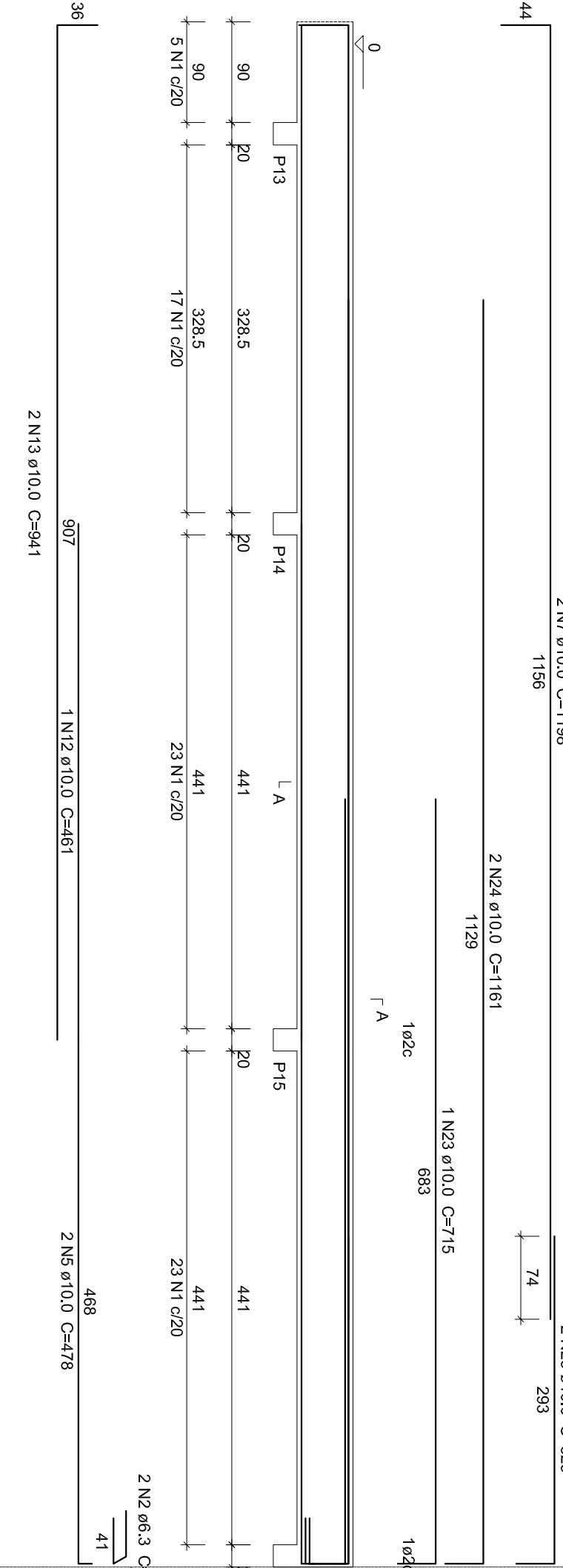
SEÇÃO A-A

ESC 1:25



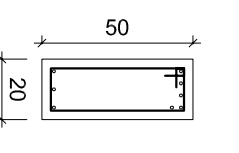
V5

ESC 1:50



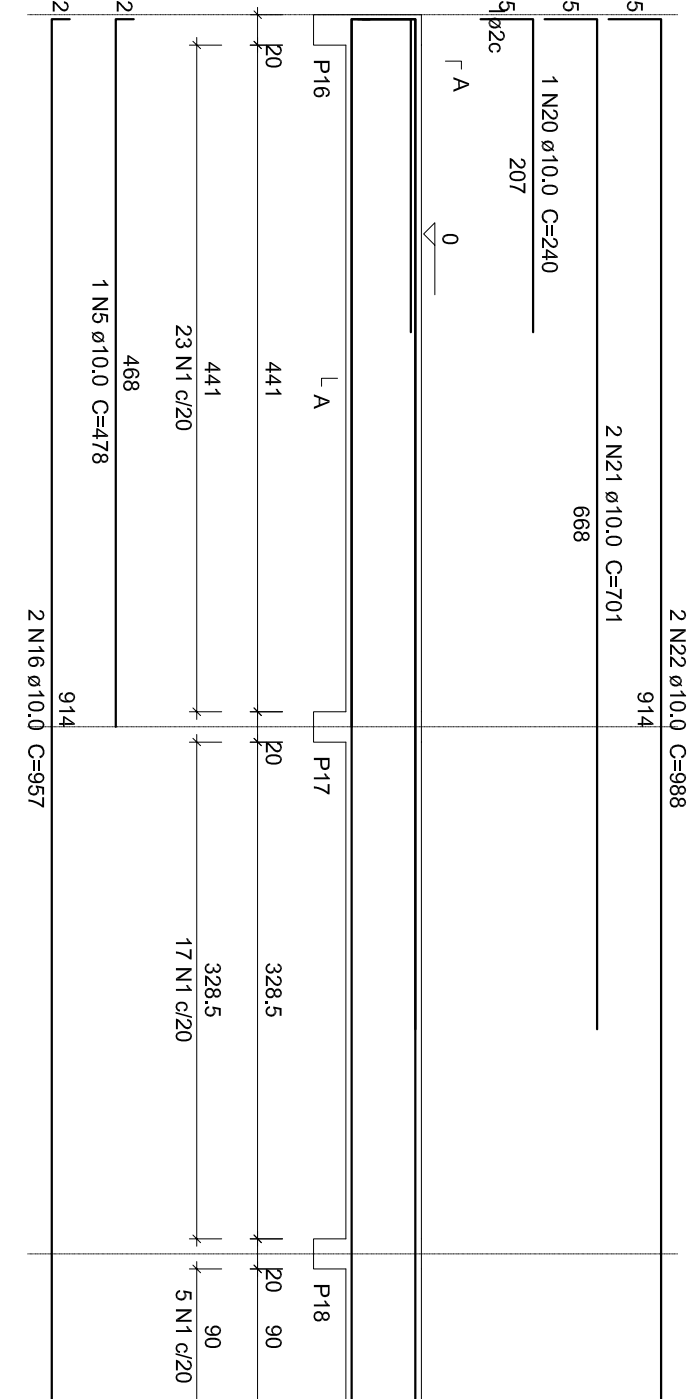
SEÇÃO A-A

ESC 1:25



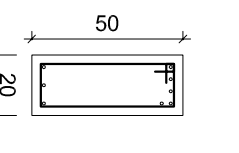
V6

ESC 1:50



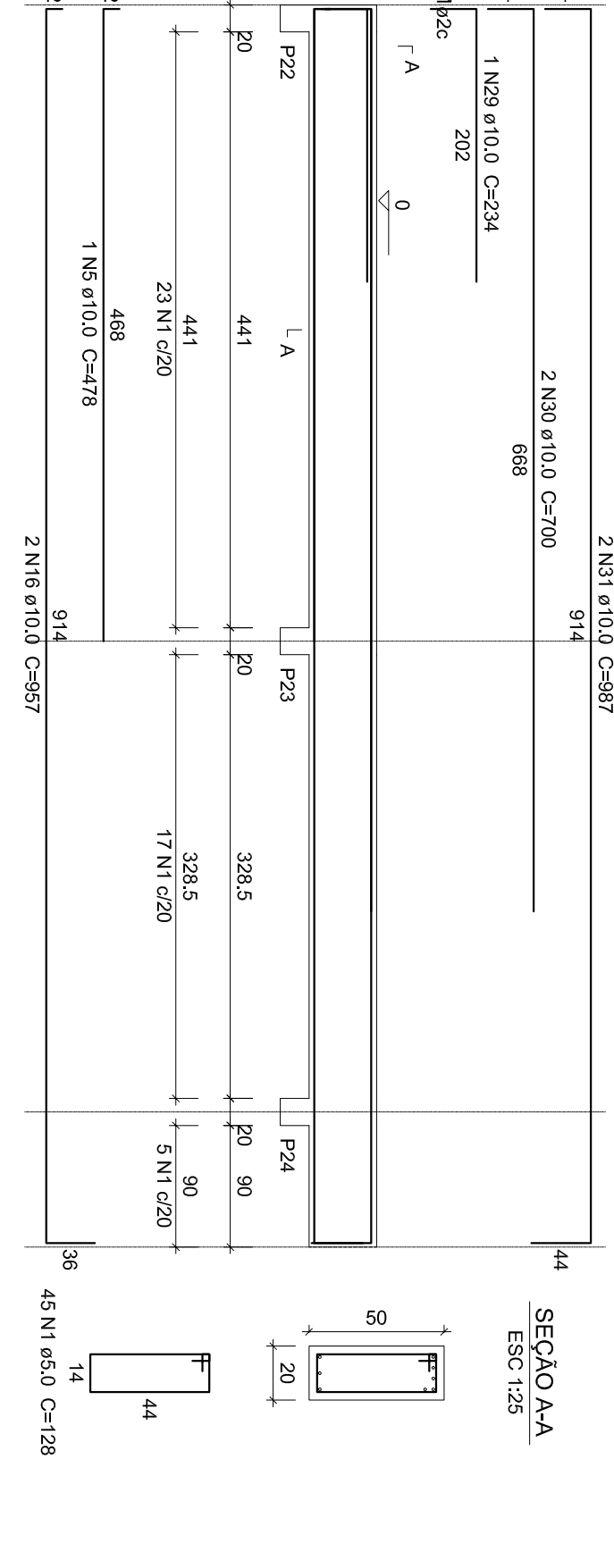
SEÇÃO A-A

ESC 1:25



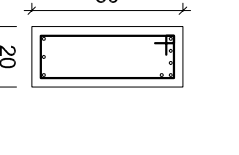
V8

ESC 1:50



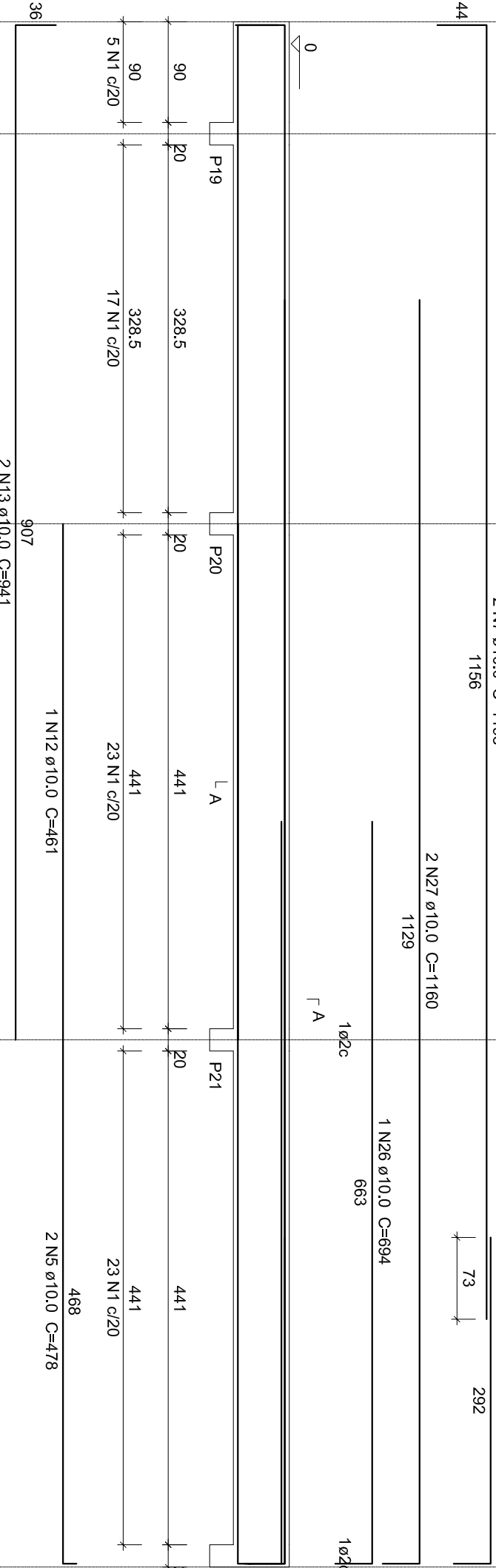
SEÇÃO A-A

ESC 1:25



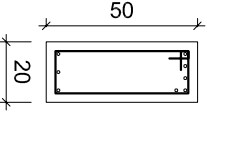
V7

ESC 1:50



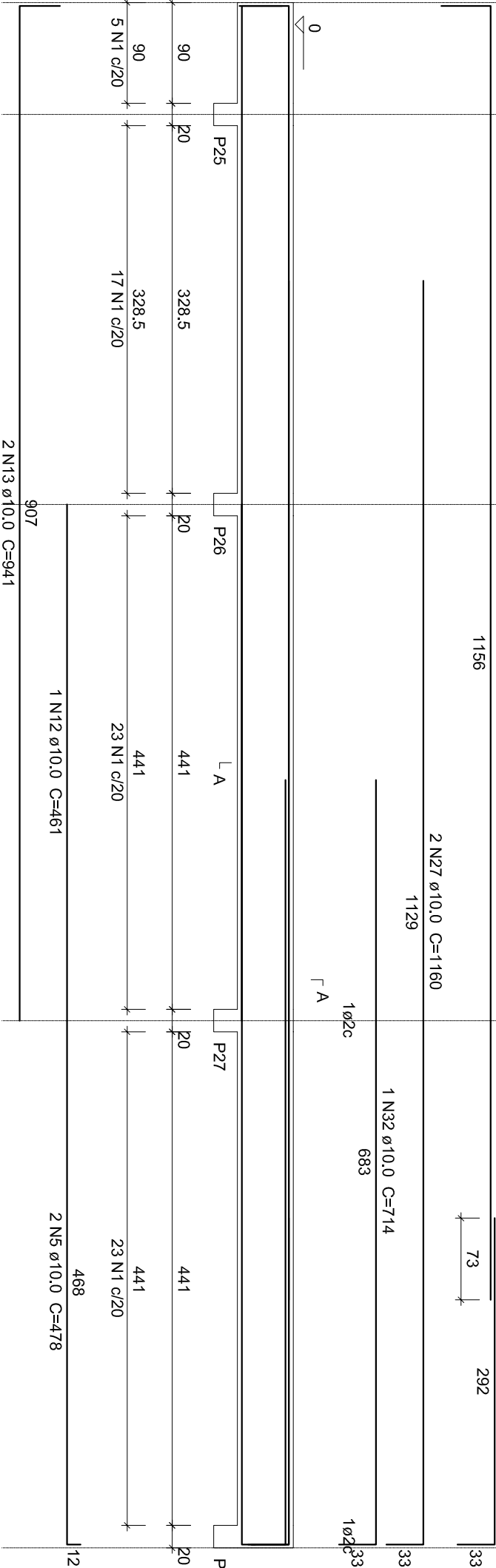
SEÇÃO A-A

ESC 1:25



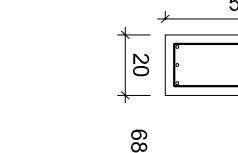
V9

ESC 1:50



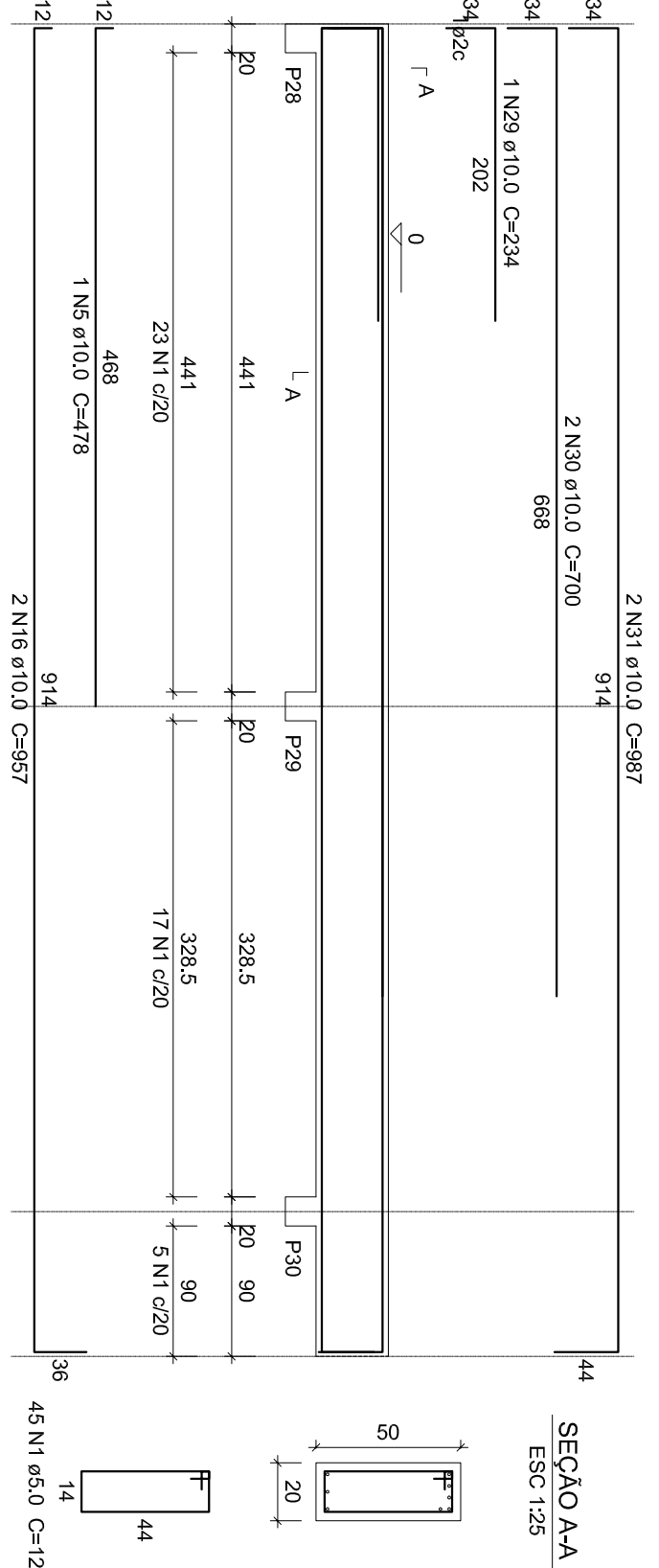
SEÇÃO A-A

ESC 1:25



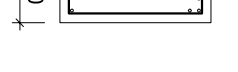
V10

ESC 1:50



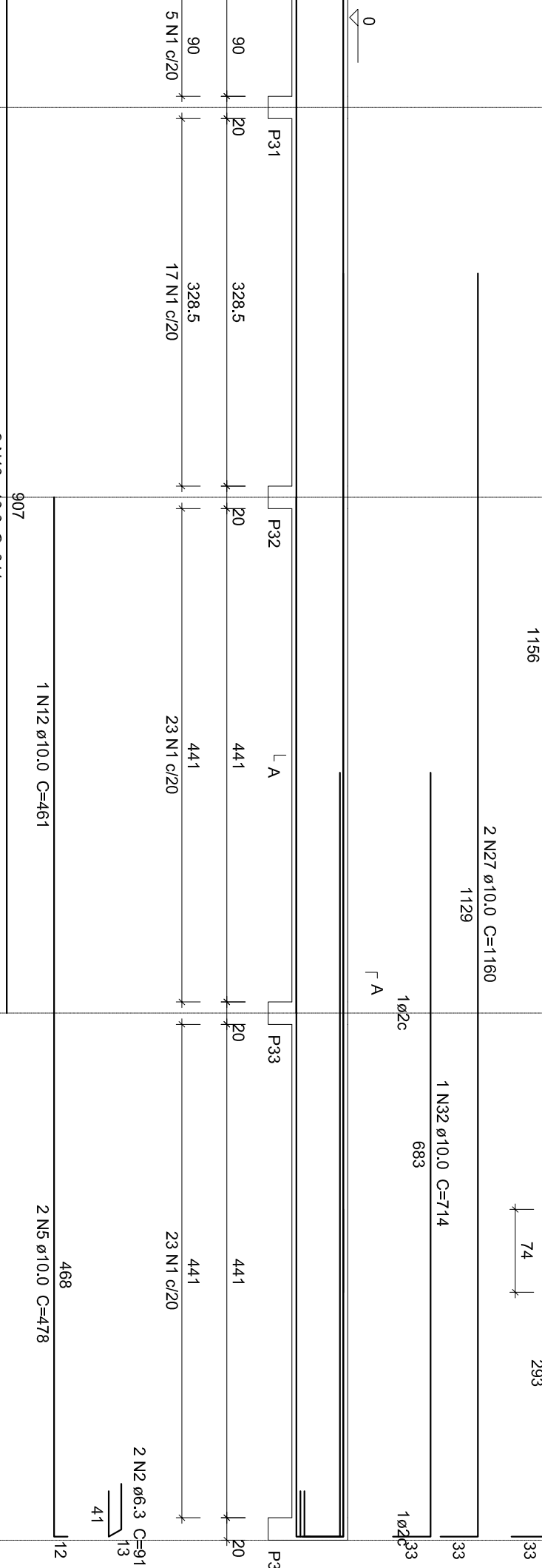
SEÇÃO A-A

ESC 1:25



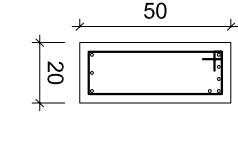
V11

ESC 1:50



SEÇÃO A-A

ESC 1:25



CONTRATADA		CONTRATANTE	
INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE – REITORIA		INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE	
TELEFONE: (47) 3331.7800		UNIDADE: CAMPUS BRUSQUE	
ENDEREÇO: RUA DAS MISSÕES, 100		ENDEREÇO: AV HUGO SCHLOSSER	
BLUMENAU – SC		BRUSQUE – SC	
AUTORIA DO PROJETO: ENG. MARIO C. ALEXANDRE JUNIOR		CONTRATANTE:	
CREA-SC: 119087-1			
NOME DO PROJETO: FUNDAÇÕES E PISO –GINÁSIO			
CONTEÚDO: DETALHAMENTO FUNDAÇÕES E VIGAS			
OBJETIVO DO PROJETO: CONSTRUÇÃO		TIPO DE PROJETO: ESTRUTURAL	
AUTORIA DO DESENHO: ENG. MARIO C. ALEXANDRE JR			
CIDADE – UF: BLUMENAU – SC		REVISÃO Nº: 01	
DATA: 04/2014		ESCALA: INDICADA	
		FOLHA: 03	
		REFERÊNCIA: EST. 03/09	