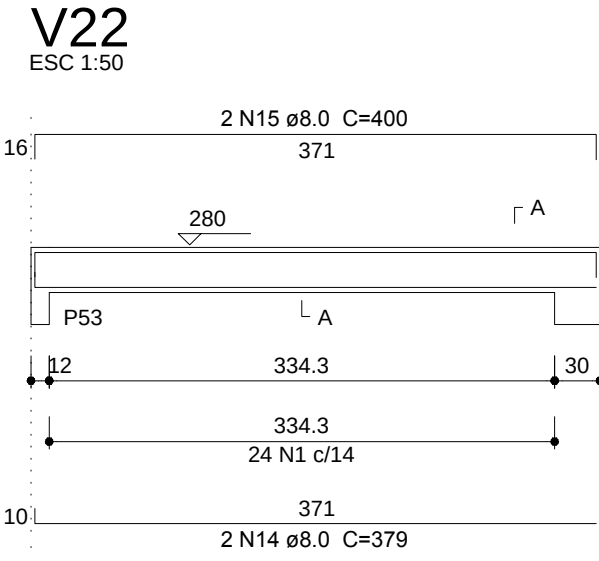
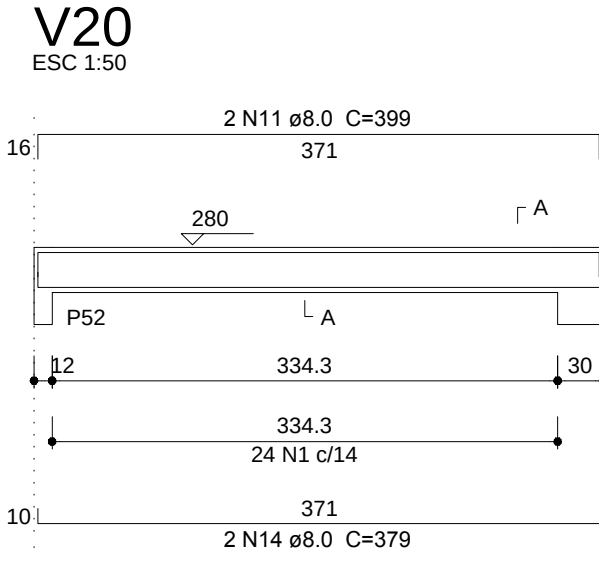
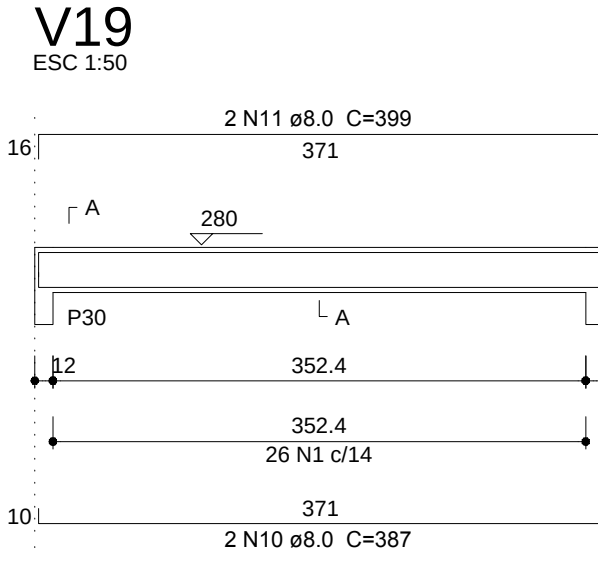
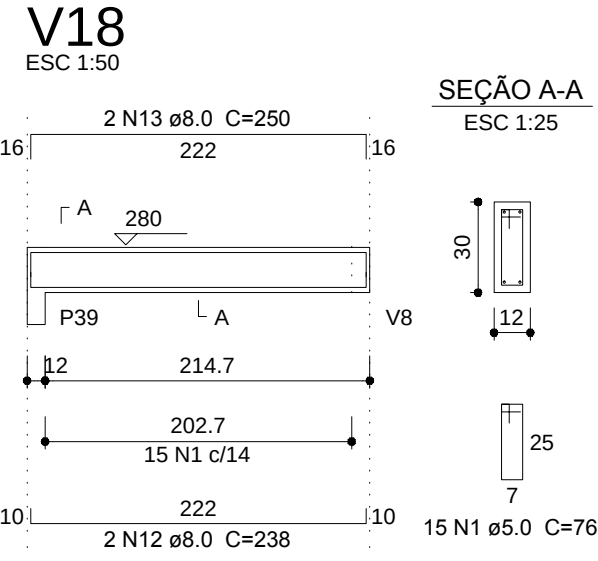
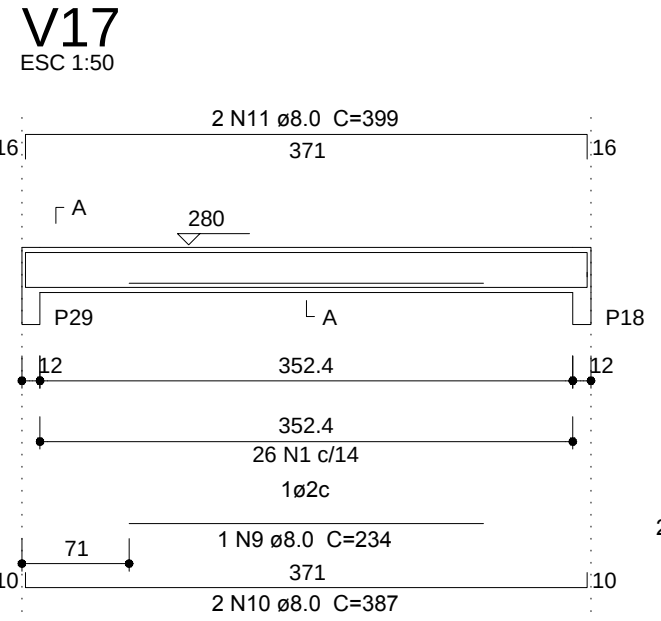
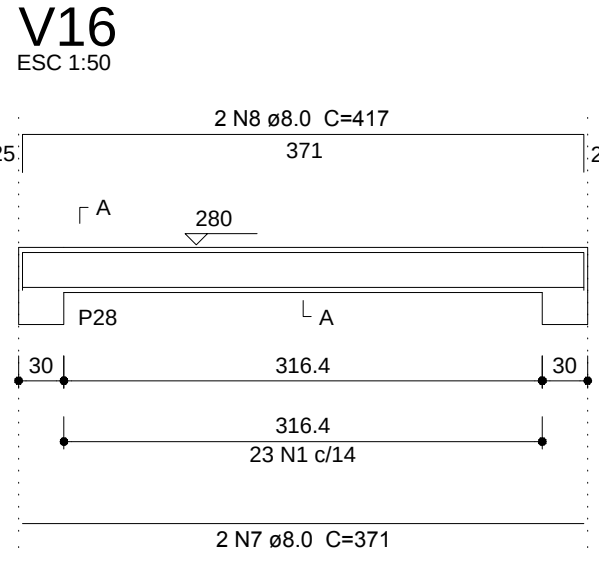
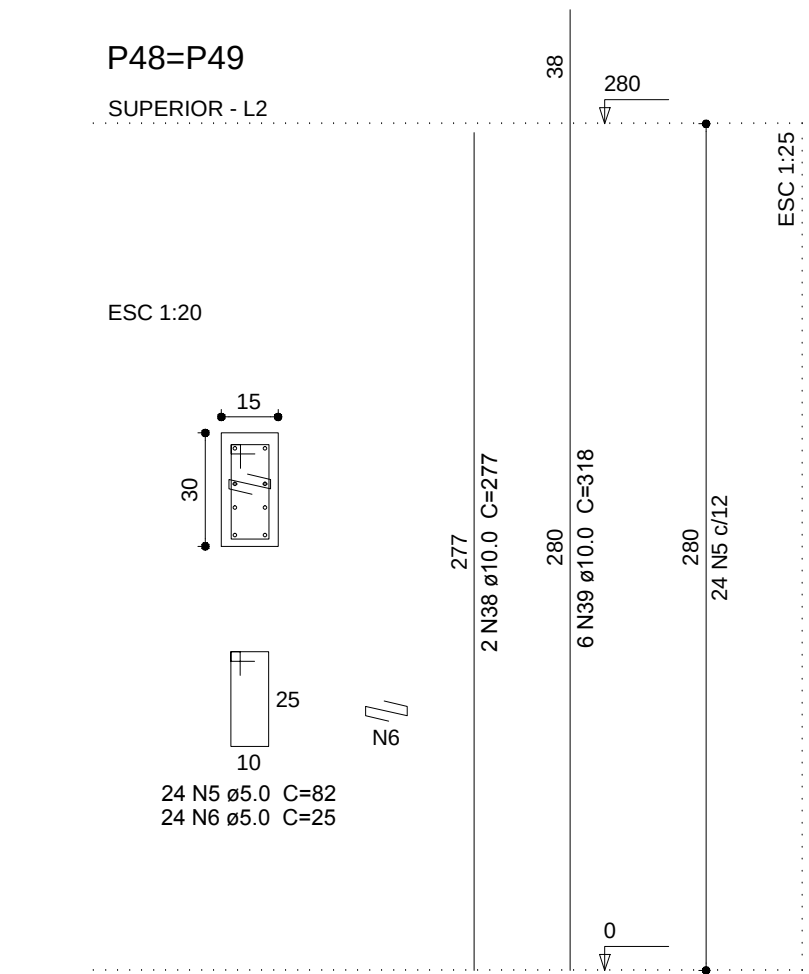
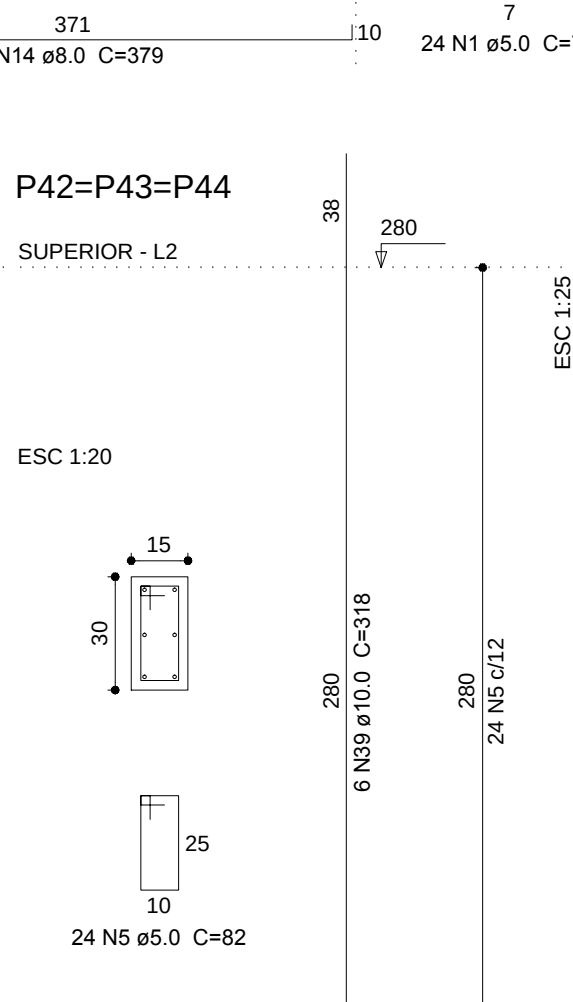
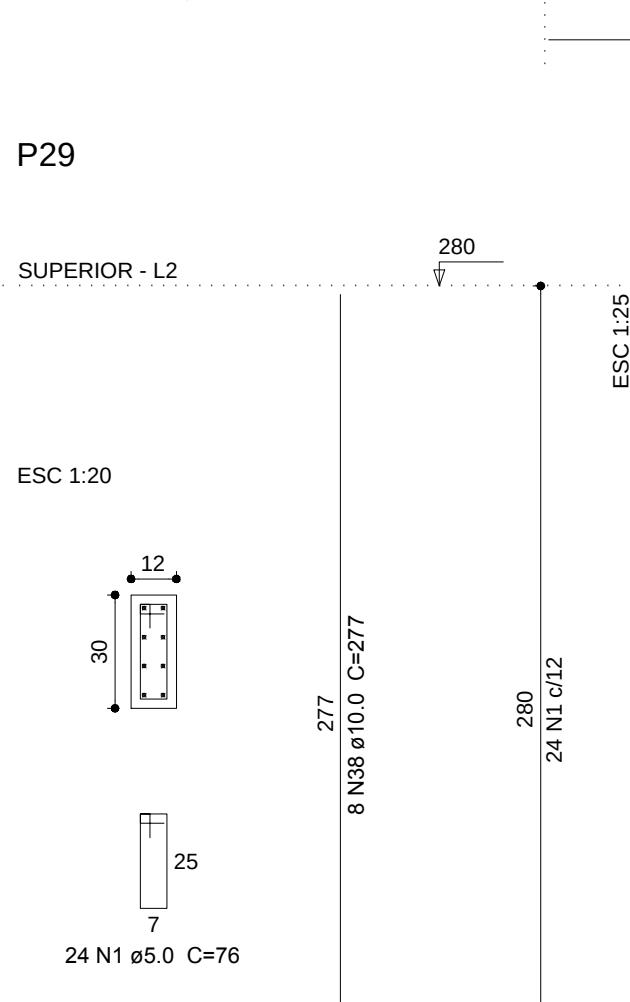
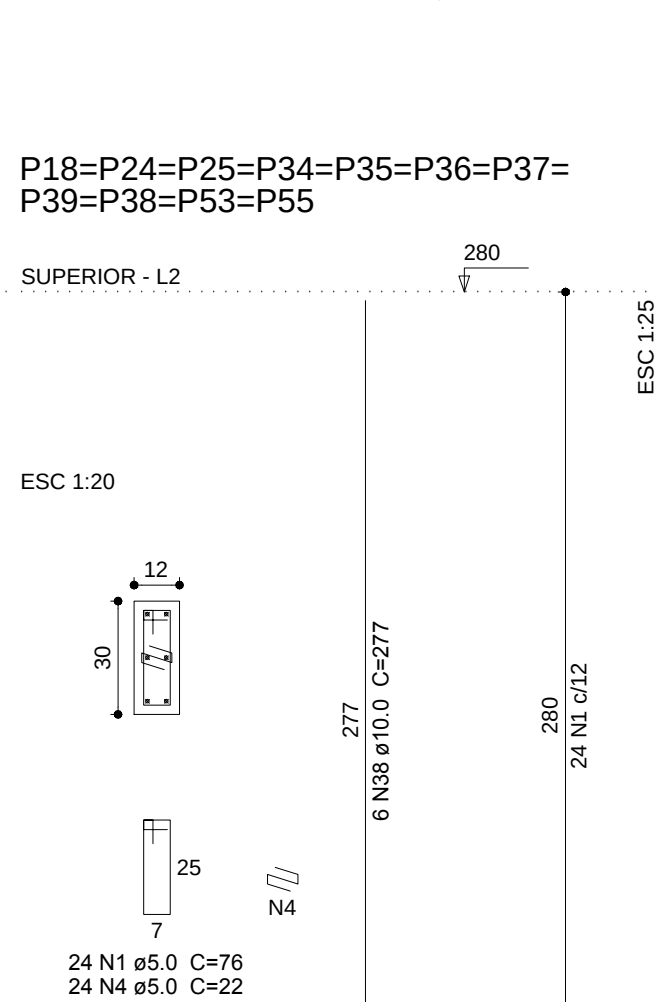
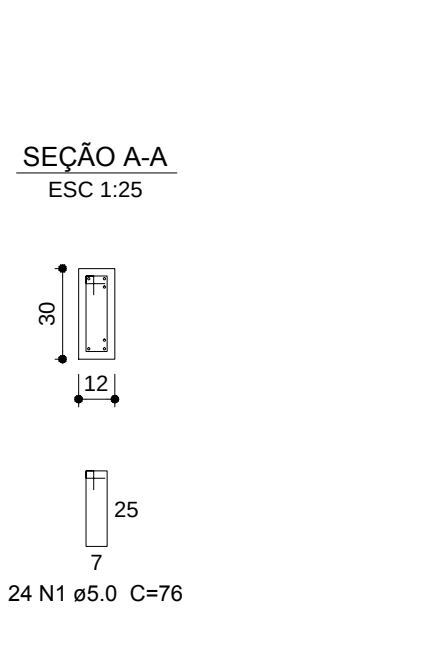
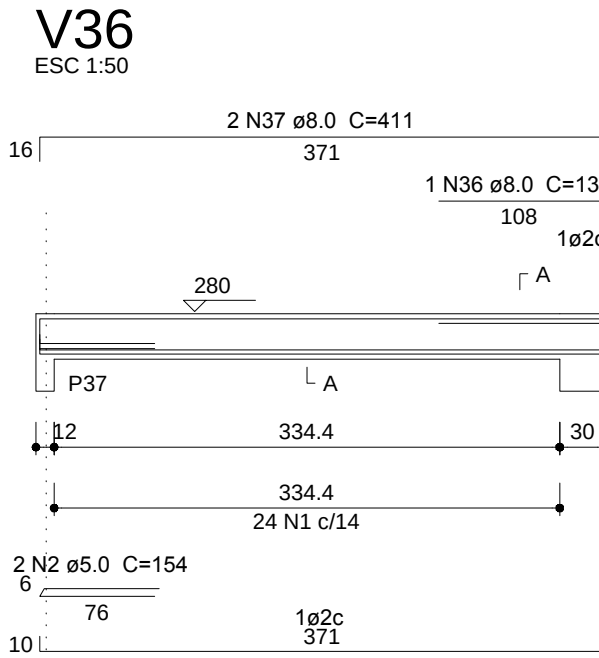
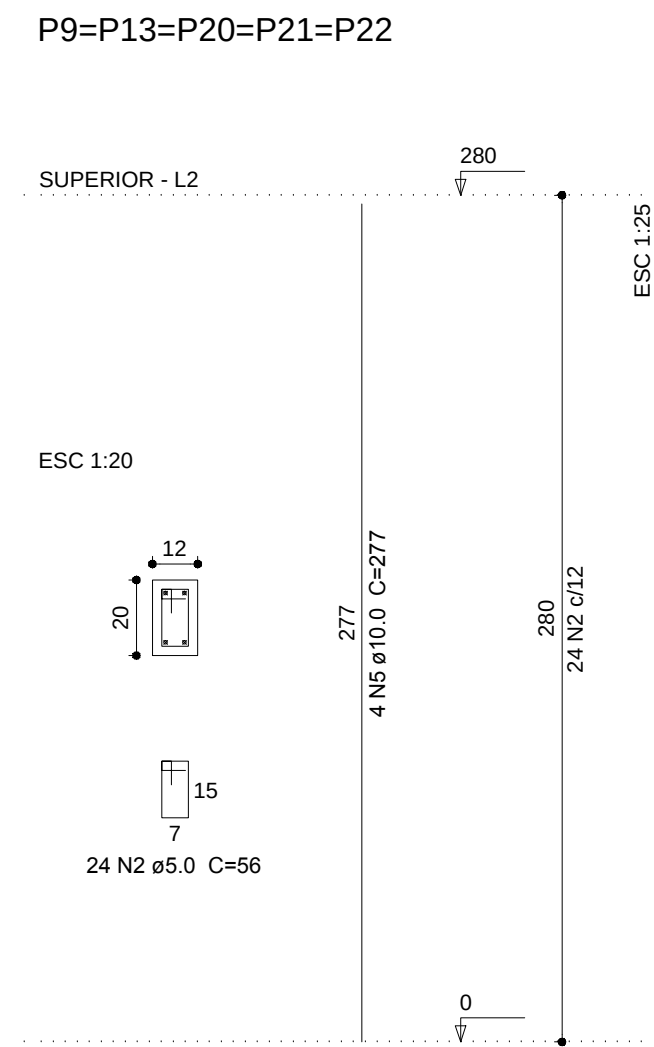
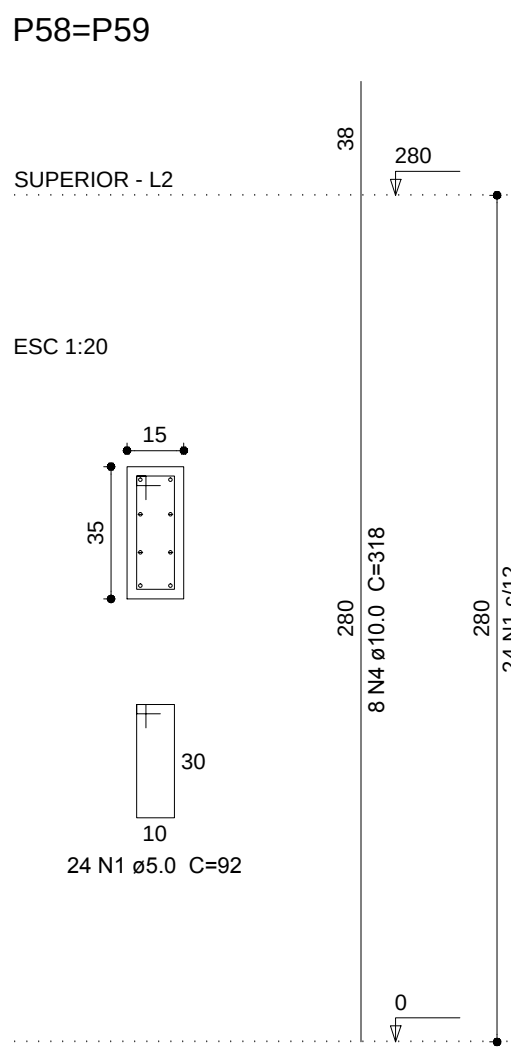
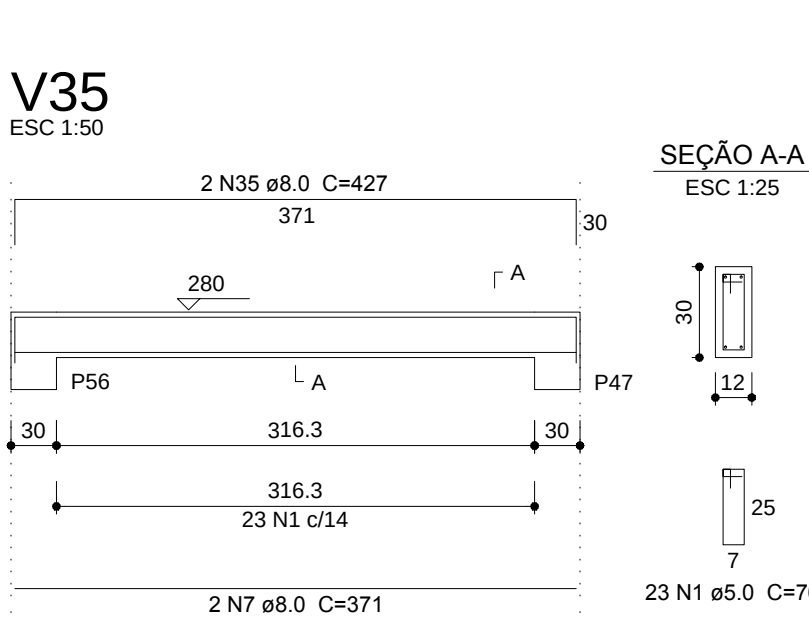
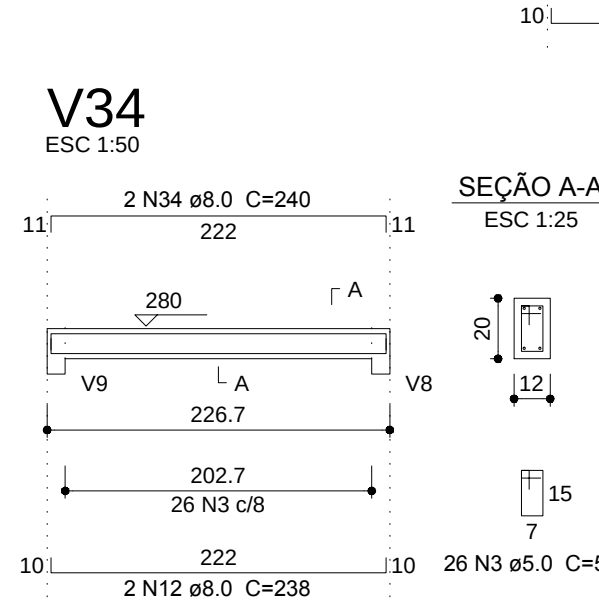
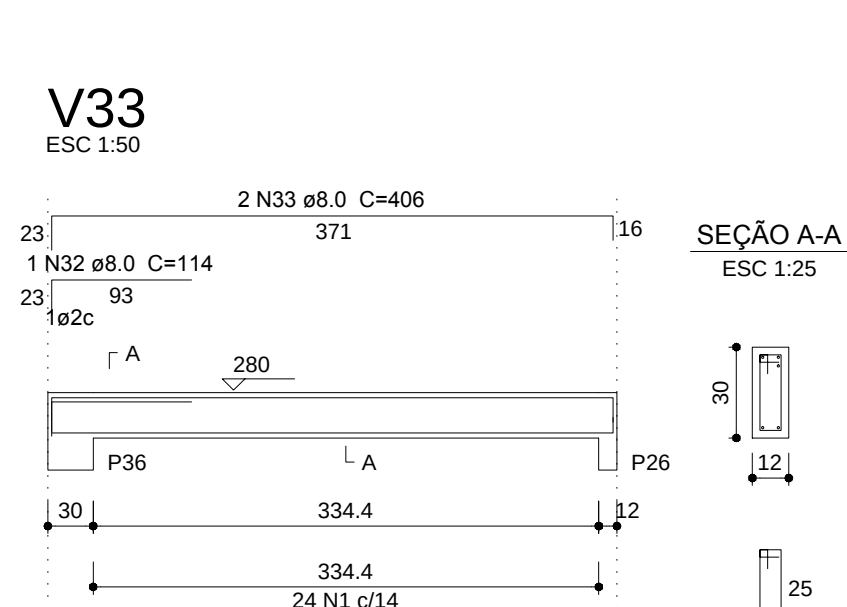
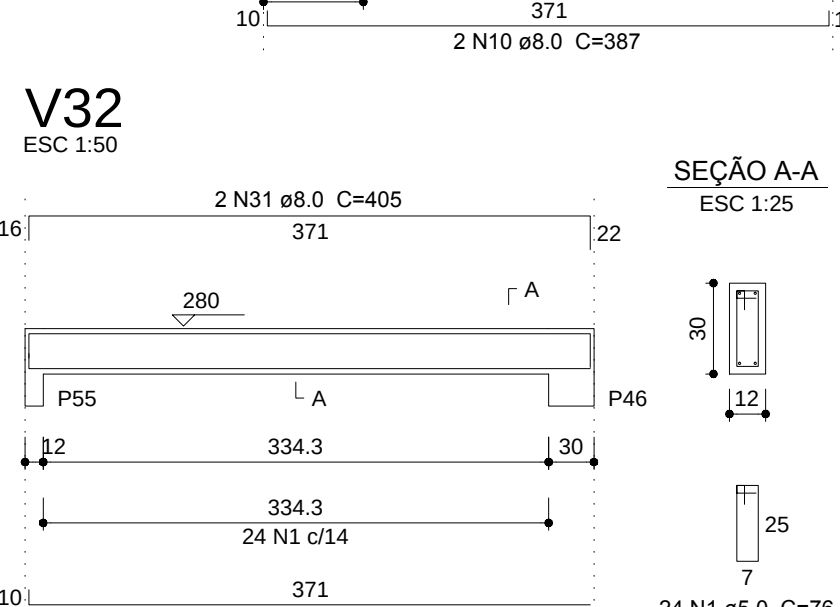
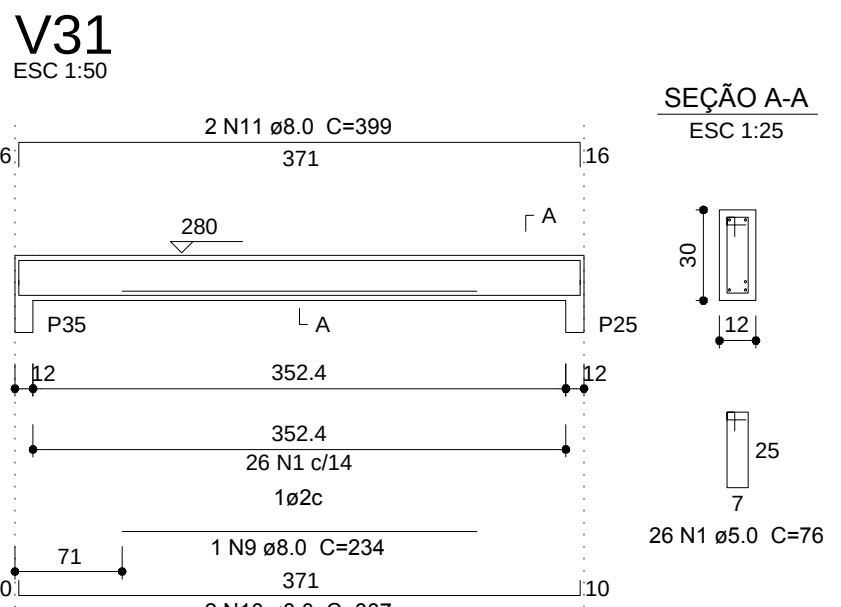
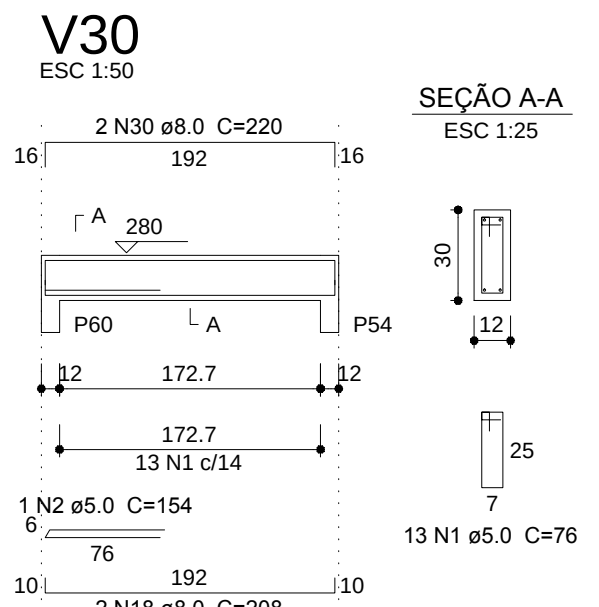
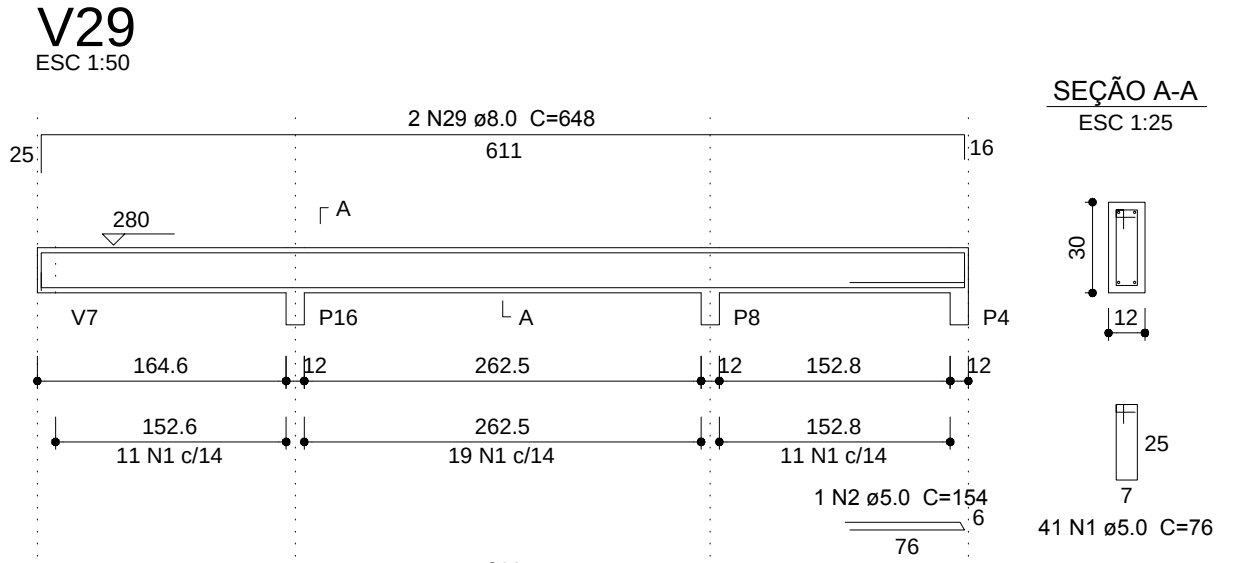
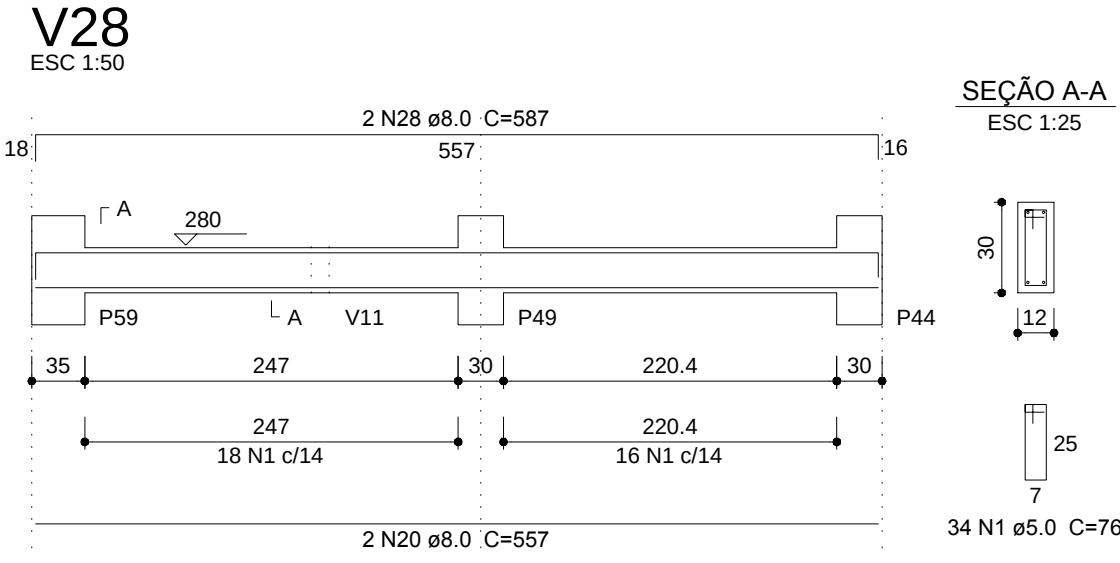
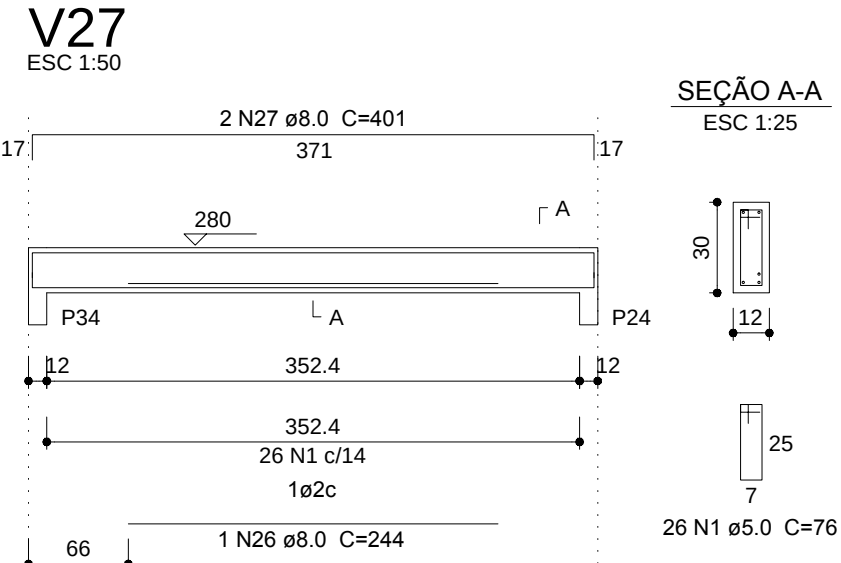
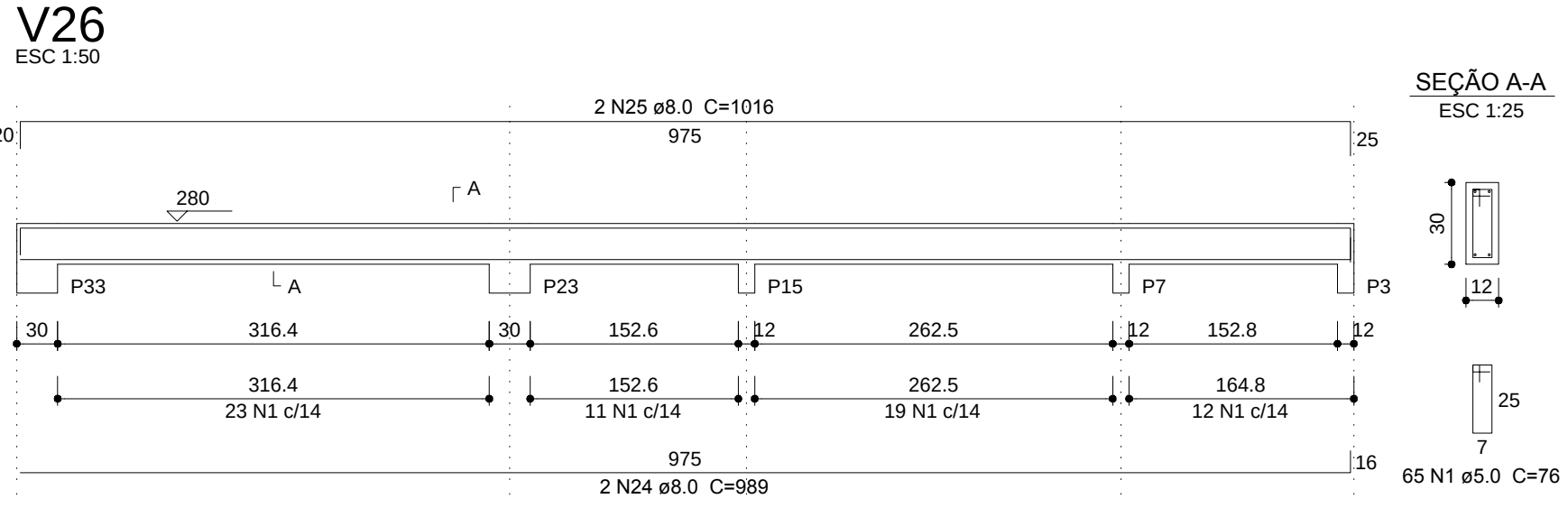
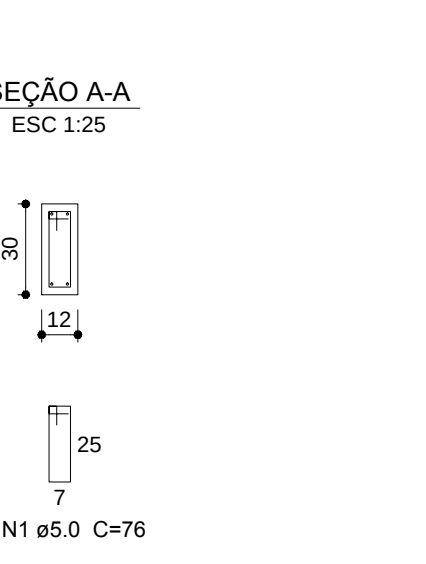
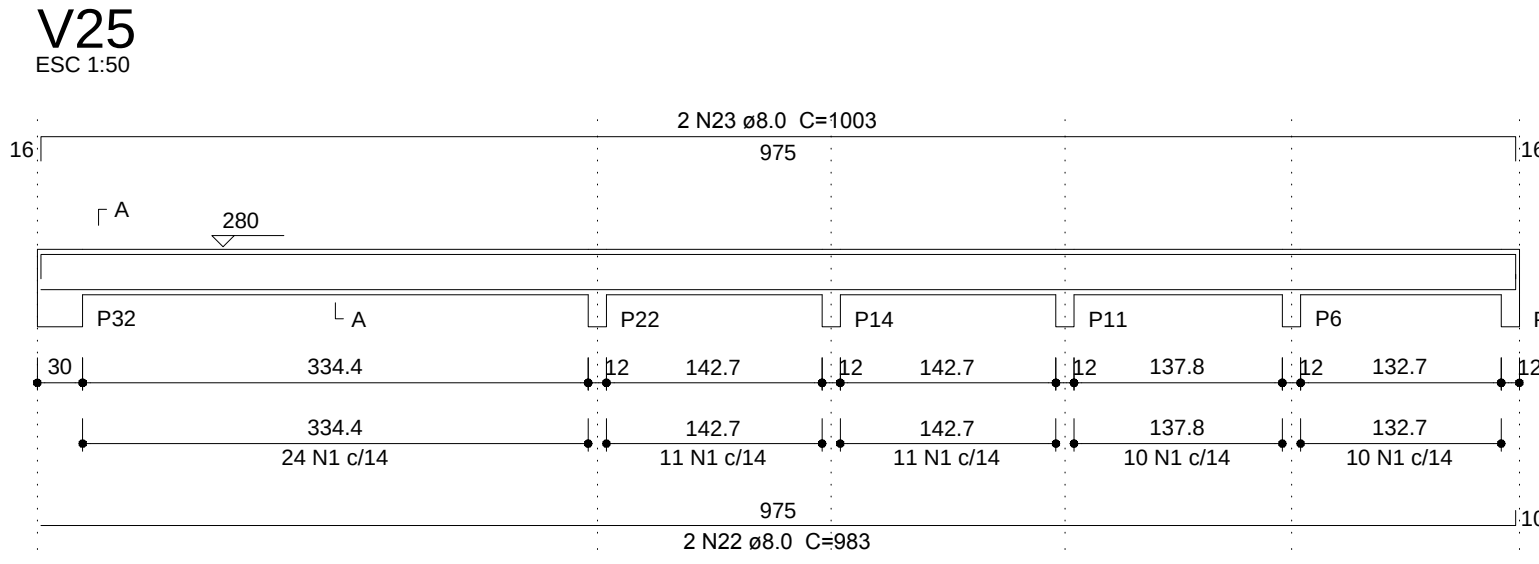
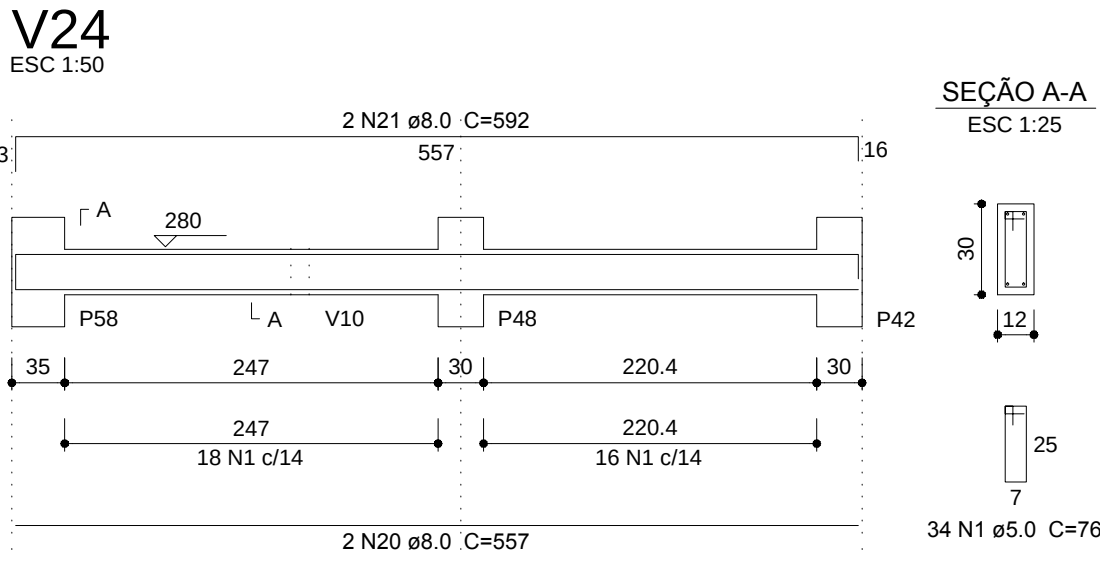
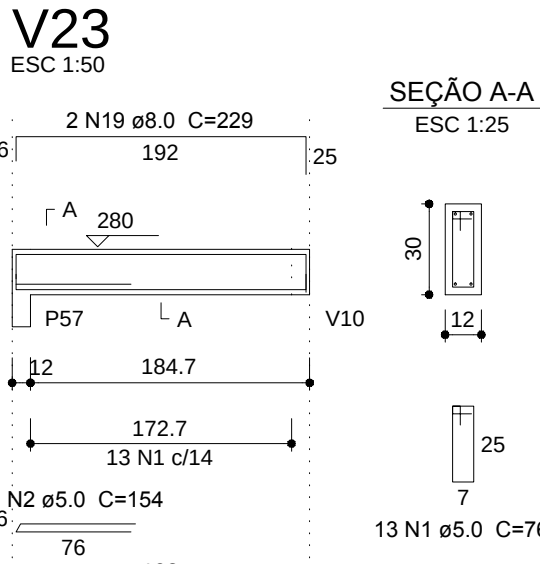
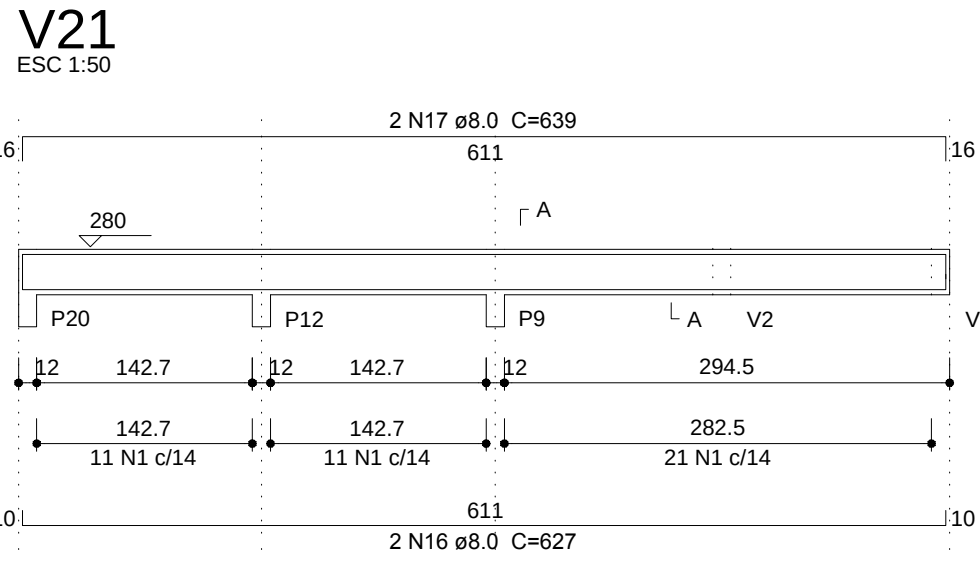


Relação do aço					
40xP1	7xP18	P29			
44xP42	P49	V16			
V17	V18	V19			
V20	V21	V22			
V23	V24	V25			
V26	V27	V28			
V29	V30	V31			
V32	V33	V34			
V35	V36				

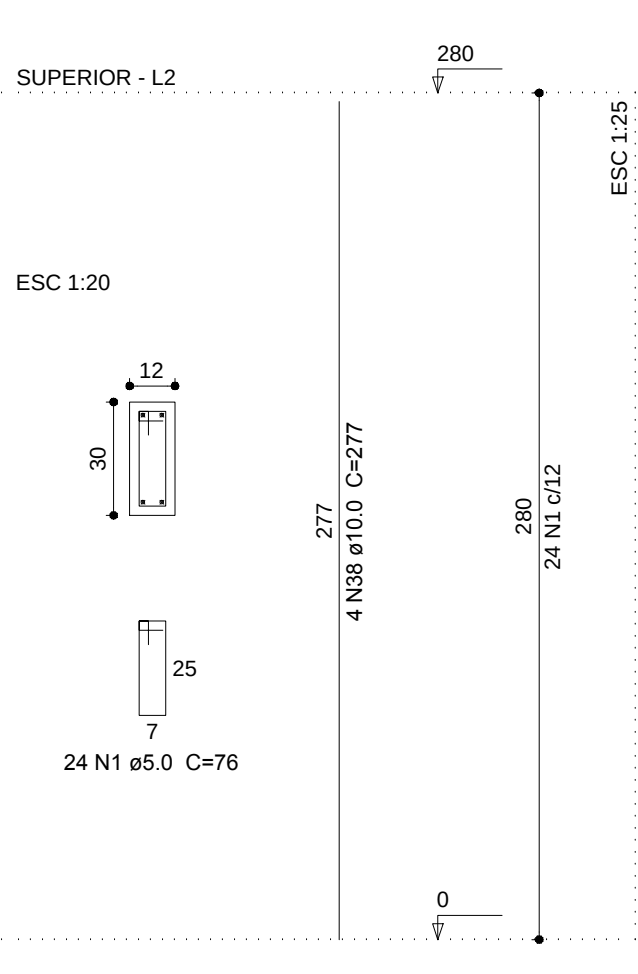
ÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1746	76	132696
	2	5.0	5	154	770
	3	5.0	26	56	1456
	4	5.0	168	22	3696
	5	5.0	120	82	9840
CA50	6	5.0	24	25	600
	7	8.0	4	371	1484
	8	8.0	2	417	834
	9	8.0	2	234	468
	10	8.0	8	387	3096
	11	8.0	8	399	3192
	12	8.0	4	238	952
	13	8.0	2	250	500
	14	8.0	11	379	4169
	15	8.0	2	400	800
	16	8.0	4	627	2508
	17	8.0	2	639	1278
	18	8.0	4	208	832
	19	8.0	2	229	458
	20	8.0	4	557	2228
	21	8.0	2	592	1184
	22	8.0	2	983	1966
	23	8.0	2	1003	2006
	24	8.0	2	989	1978
	25	8.0	2	1016	2032
	26	8.0	1	244	244
	27	8.0	2	401	802
	28	8.0	2	587	1174
	29	8.0	2	648	1296
	30	8.0	2	220	440
	31	8.0	2	405	810
	32	8.0	1	114	114
	33	8.0	2	406	812
	34	8.0	2	240	480
	35	8.0	2	427	854
	36	8.0	1	134	134
	37	8.0	2	411	822
	38	10.0	222	277	61494
	39	10.0	20	318	6360

Resumo do aço			
ÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	399.5	173.4
CA50	10.0	678.6	460.2
CA60	5.0	1490.6	252.7
PESO TOTAL (kg)			
CA50	633.6		
CA60	252.7		

Volume de concreto (C-25) = 8.79 m³
Área de forma = 192.03 m²



P1=P2=P3=P4=P5=P6=P7= P8=P10=P11=P12=P14= P15=P16=P17=P19=P23 =P26=P27=P28=P31=P32 =P33=P40=P41=P45=P46 =P47=P50=P51=P52=P54= P56=P57=P60



PROJETO ESTRUTURAL			
PRORURAL PROJETOS RURAIS TOPOGRAFIA DANTE LTDA RUA JOSÉ CARNEIRO, 101 - JARDIM ST. JOHIL - 10x43x347E-2413 - DU FAX 11-3333-1122-2266 prorural@prorural.com.br		Responsável Técnico: Ivo Marini Engenheiro Civil - CREA-PR 10785/D	
Obra: UNIDADE DE SAÚDE RUA CASTRO ALVES, LT 01, 26.03, 12, 13 e 14 DO D4, RESIDENCIAL PORTO BELD, IVAIPORÁ-PR	Proprietário: PREFEITURA MUNICIPAL DE IVAIPORÁ-PR	Folha Número: 07	Total Folhas: 08
Conteúdo: DET. VIGA SUPERIOR-01 DET. PILAR TÉRREO		Arquivo: 08-estrutural.dwg	
Operador CAD: Paulo Ghizone	Escala: Indicada	Data: fevereiro . 2014	