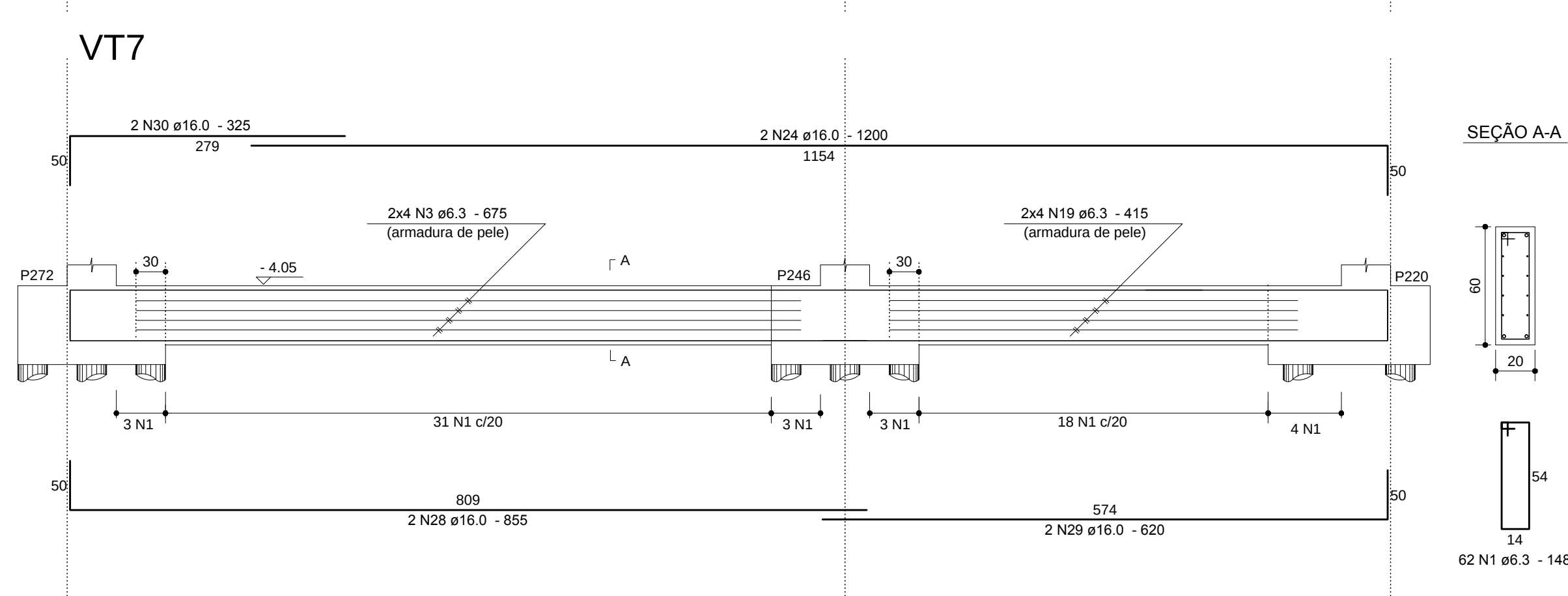
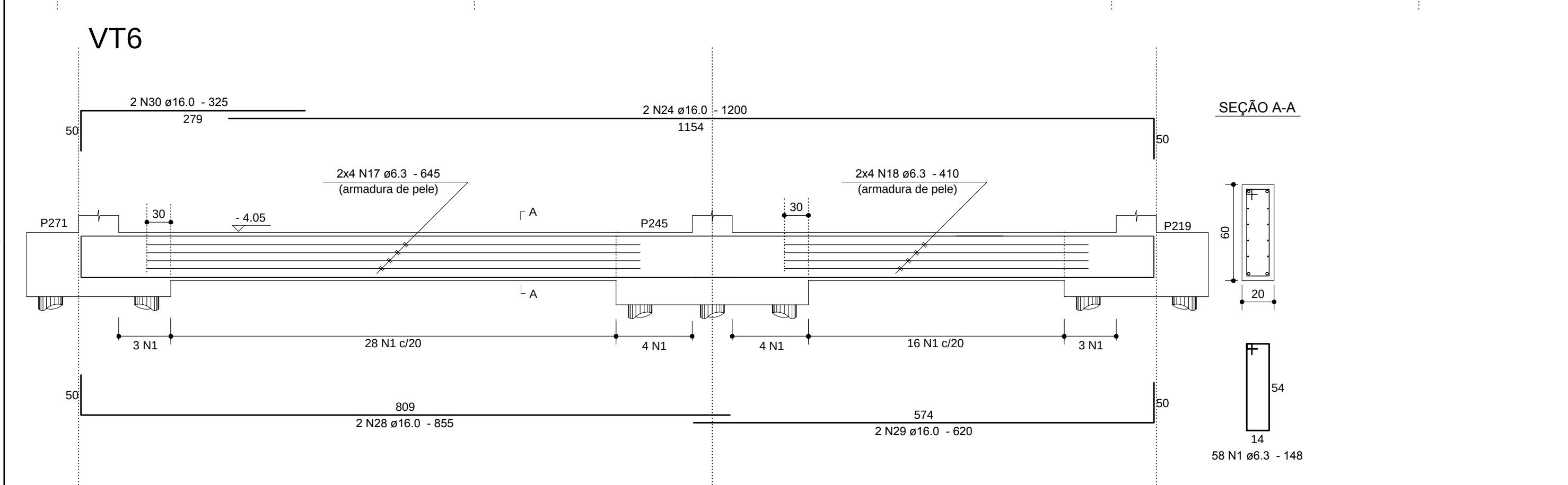
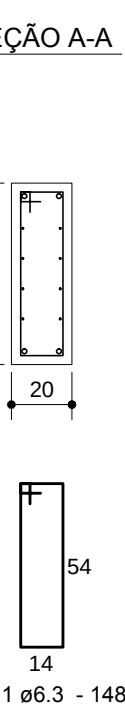
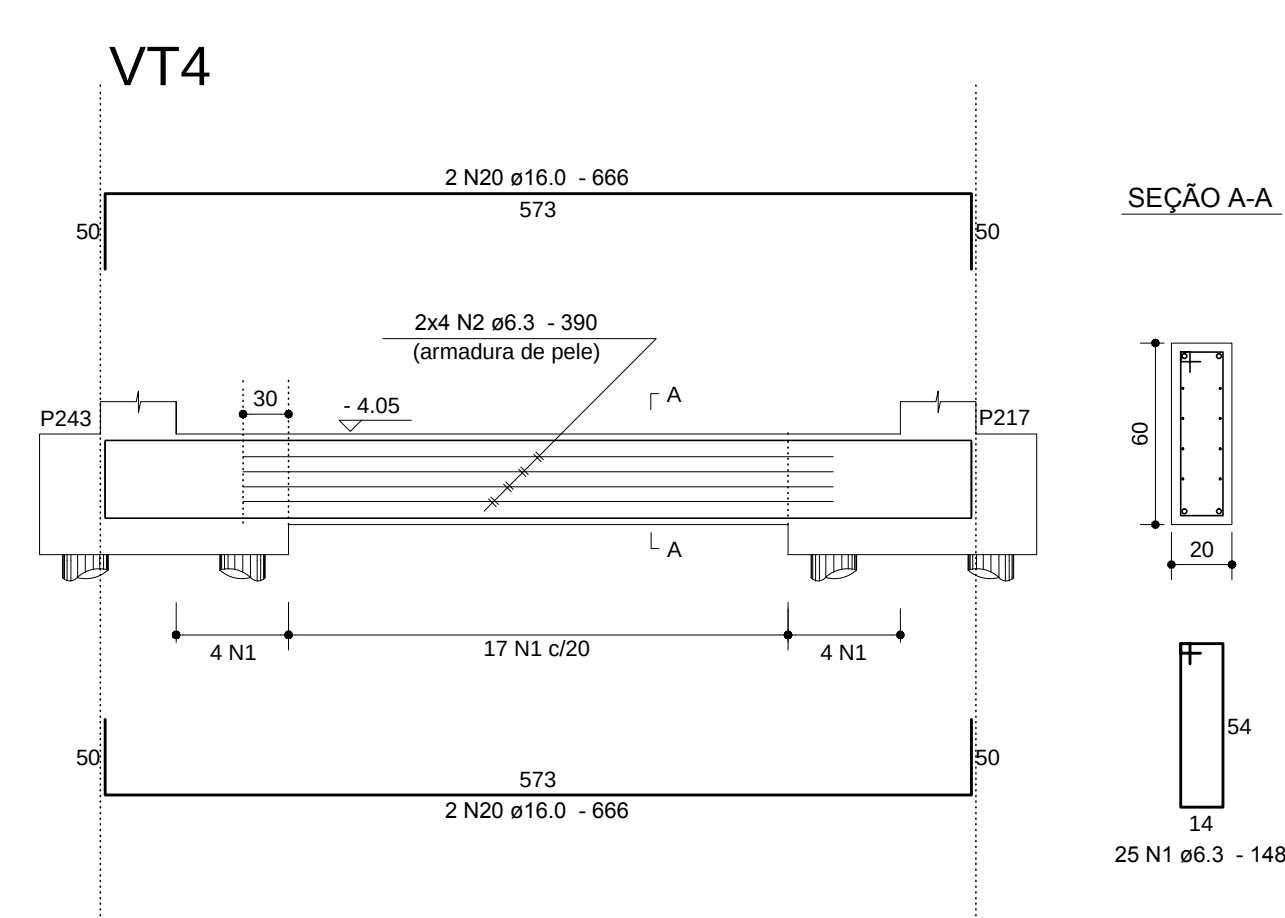
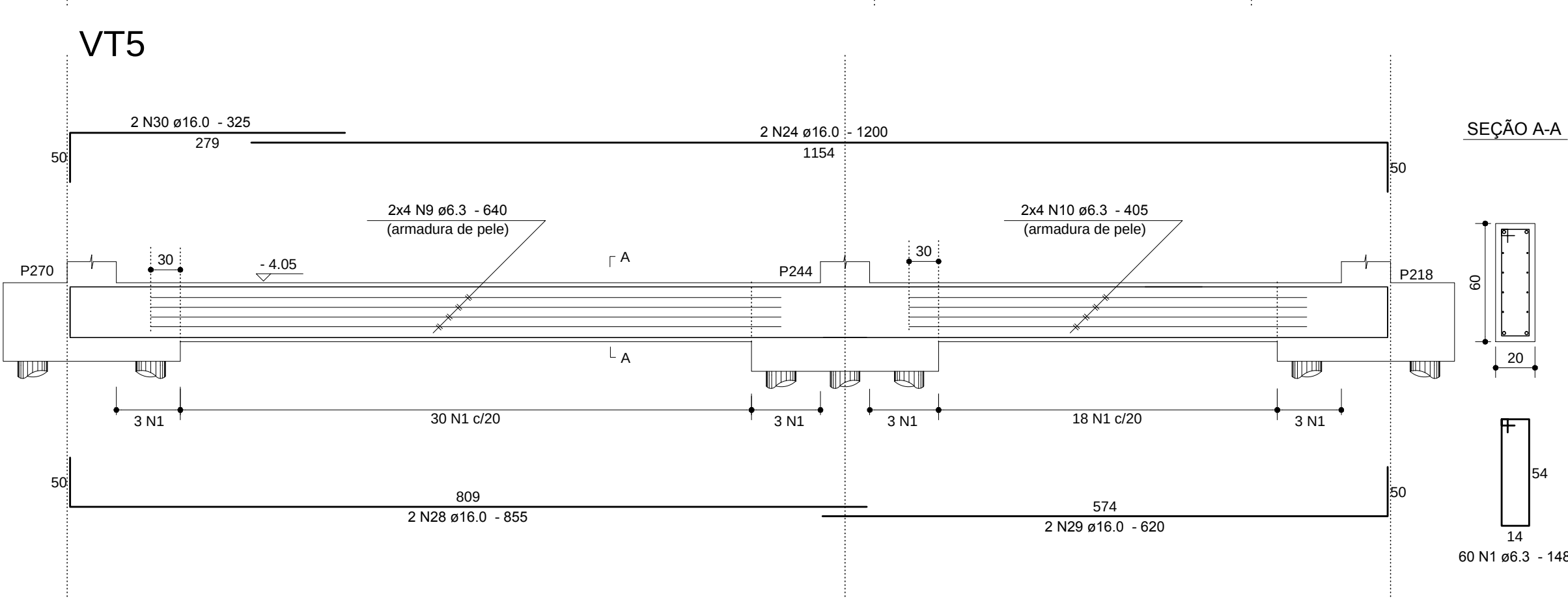
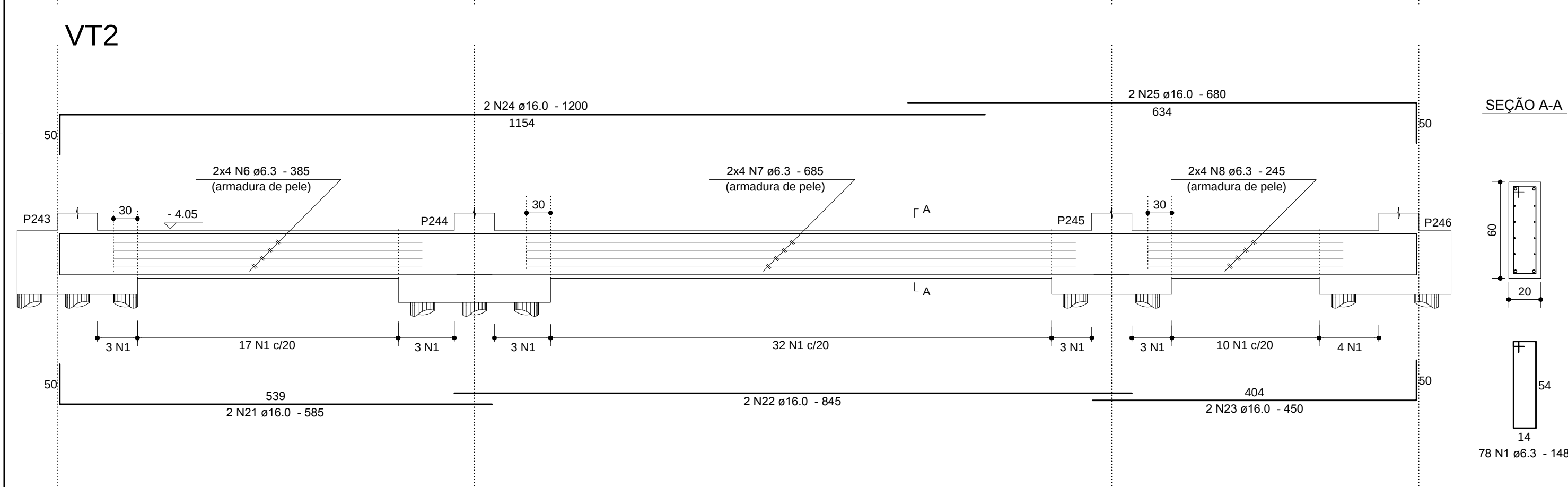
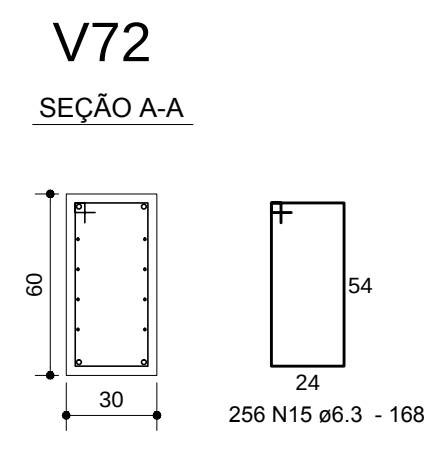
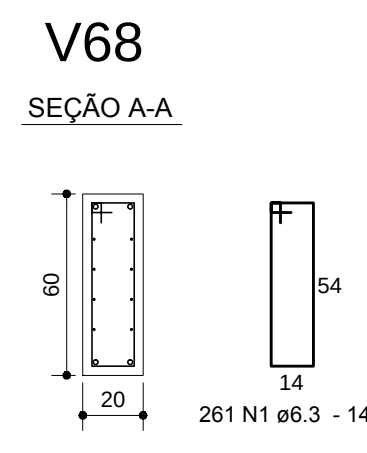
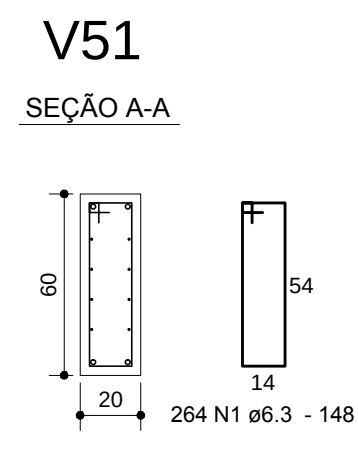
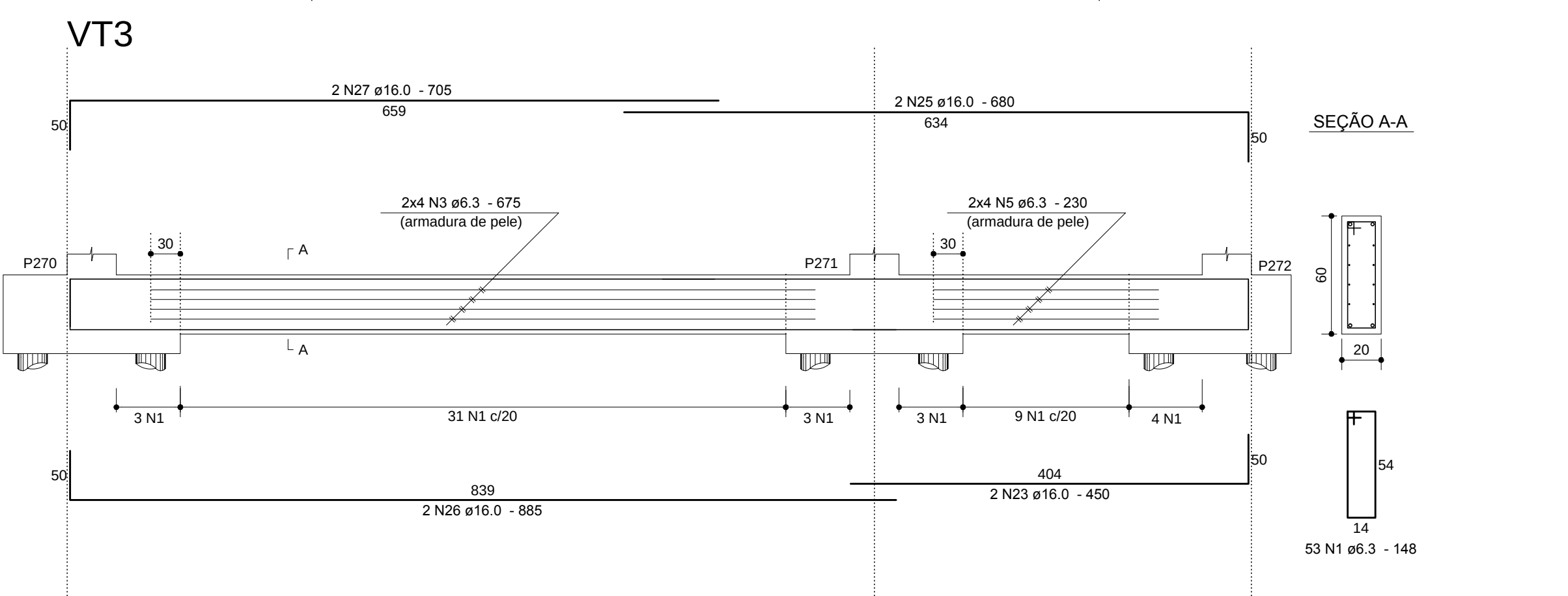
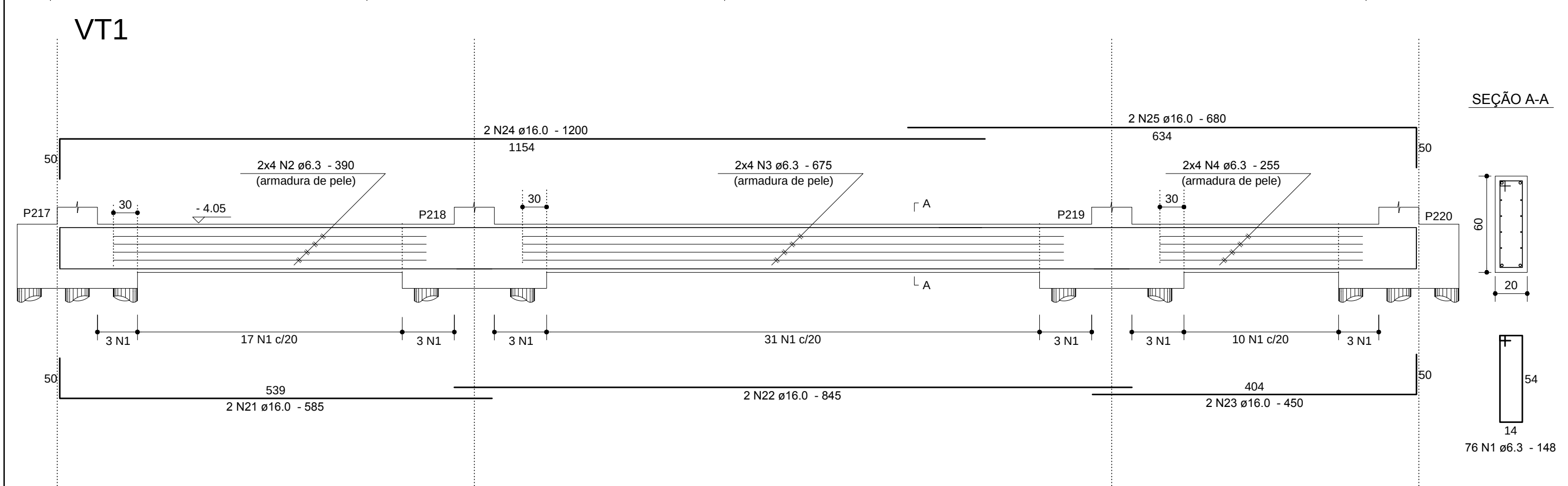
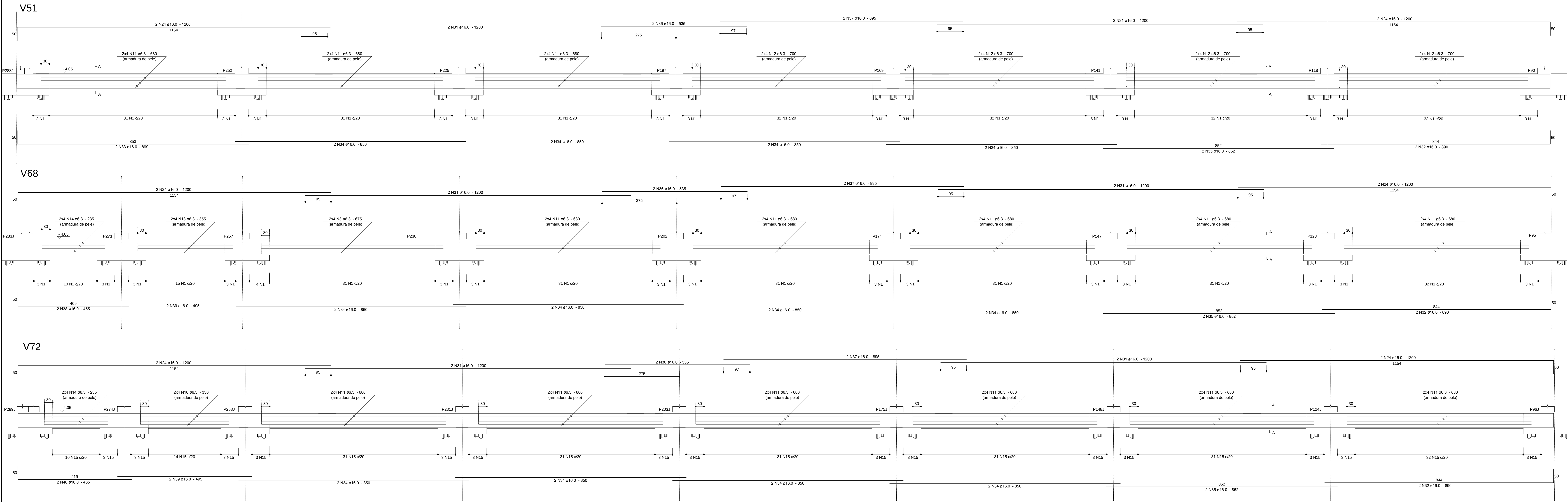
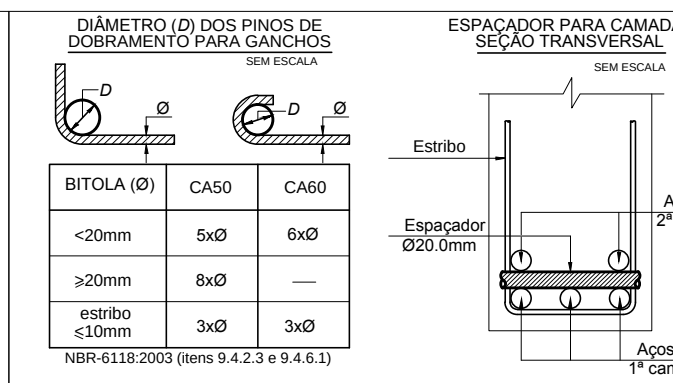




Relação do Aço									
CAISO	N	DIAM	Q	UNIT	C TOTAL				
1	6.3	537	148	138976					
2	6.3	16	390	6246					
3	6.3	32	675	21600					
4	6.3	8	255	2040					
5	6.3	8	230	1840					
6	6.3	8	385	3980					
7	6.3	8	685	1480					
8	6.3	8	245	1960					
9	6.3	8	640	5120					
10	6.3	8	405	3240					
11	6.3	112	680	76160					
12	6.3	32	700	23400					
13	6.3	8	355	2840					
14	6.3	16	235	2760					
15	6.3	256	168	43008					
16	6.3	8	330	2640					
17	6.3	8	645	5160					
18	6.3	8	410	3280					
19	6.3	8	415	3320					
20	16.0	4	695	2664					
21	16.0	4	585	2340					
22	16.0	4	845	3380					
23	16.0	6	450	2700					
24	16.0	22	1200	26400					
25	16.0	6	680	4080					
26	16.0	2	885	1770					
27	16.0	2	705	1410					
28	16.0	6	855	5130					
29	16.0	6	620	3720					
30	16.0	6	325	1950					
31	16.0	12	1200	14400					
32	16.0	6	890	5340					
33	16.0	2	899	1798					
34	16.0	24	850	20400					
35	16.0	6	852	5112					
36	16.0	6	535	3210					
37	16.0	6	895	5370					
38	16.0	2	455	910					
39	16.0	4	495	1980					
40	16.0	2	465	930					

Resumo dos Materiais			
CAISO	DIAM	C TOTAL	PESO
6.3	3516.5	861	130
16.0	1190	1815	1815
PESO TOTAL		Vol. concreto = 34.78 m³	
CAISO		Área formas = 371.93 m²	

Anotações:



Notas:
01 NBR6118:2007 - Classe de Agressividade Ambiental = II.
02 NBR6118:2007 - Concreto com fck=25MPa - Apo CA-50.
03 NBR6118:2007 - Cobrimento para vigas, em todas as faces: 3,0cm.
04 Unidades: diâmetro do aço em milímetro; espaçamento e comprimento em centímetro;

REVISÃO	DATA	EMISSÃO	MODIFICAÇÕES	RESP.
00	19/05/12	Emissão Inicial		

Proger Engenharia Ltda
PROJETOS ESTRUTURAIS - CONSULTORIA - GERENCIAMENTO
DIRETOR: AUGUSTO ALENCAR DE NEVES S. SOUZA
Engenheiro Civil - CREA-RJ: 52.791-0
http://www.progerengenharia.com.br

Av. Pres. Vargas, 595 - grupo 1309 e 1311
Centro, Rio de Janeiro, RJ CEP:20171-000
Tel/Fax:(21)2432.8811/Cel:(21)9987.9477
proger@progerengenharia.com.br
contato@progerengenharia.com.br

CLIENTE: PATOMIX LINHARES SHOPPING CENTER SPE S.A.

OBRA: SHOPPING PATOMIX LINHARES
LinhARES - ES

PROJETO ESTRUTURAL
PISO DO SUBSOLO - VIGAS - 08/08

DESENHO: 407_arm02_08_0_049

ESCALA: 1:25
vigas: 1:30

DATA: 19/05/12 - R0

PROJETO: E407

ARMATUROS: ARMO2-08