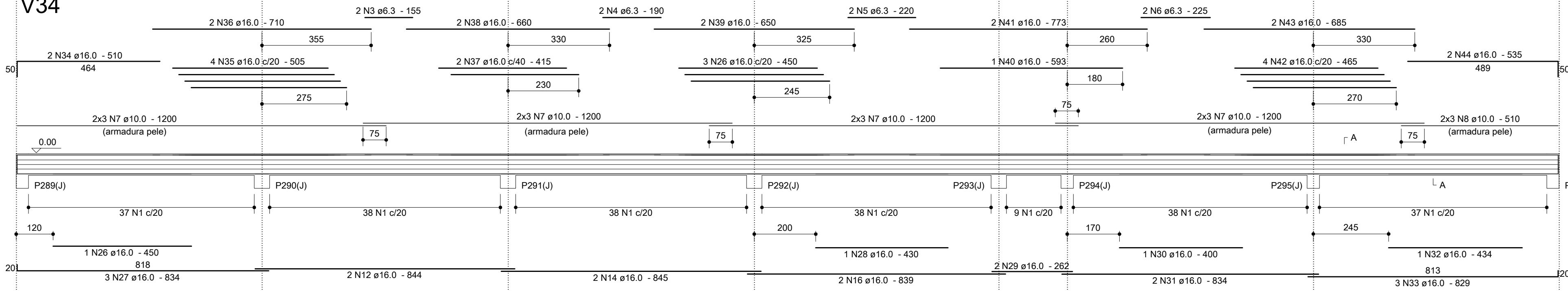
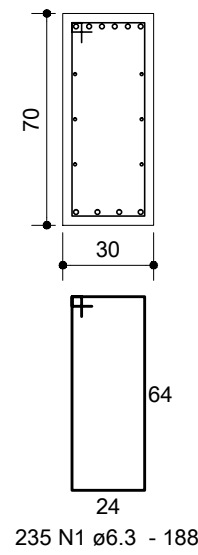


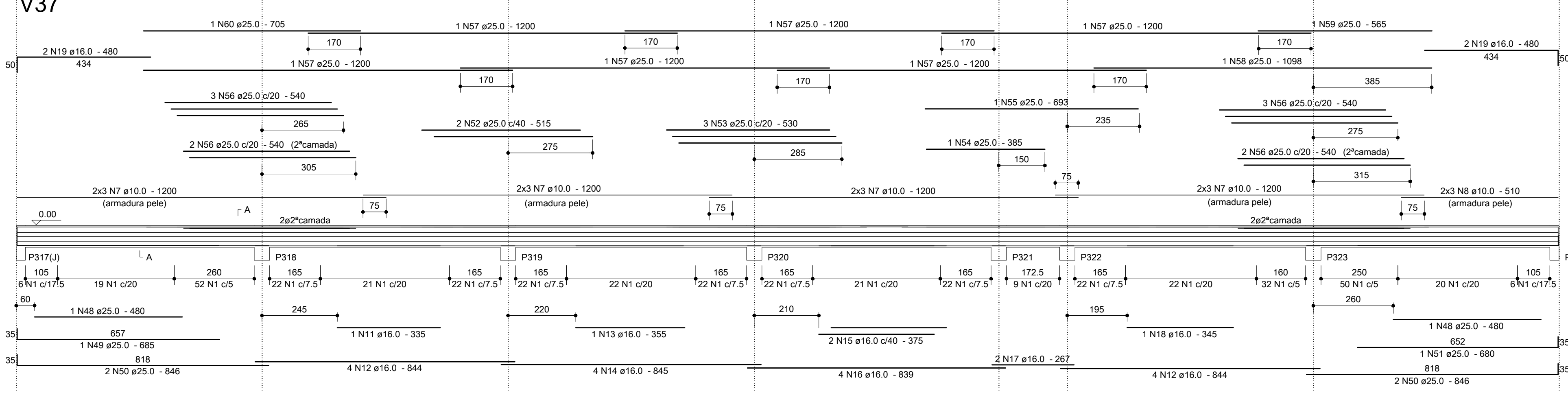
V34



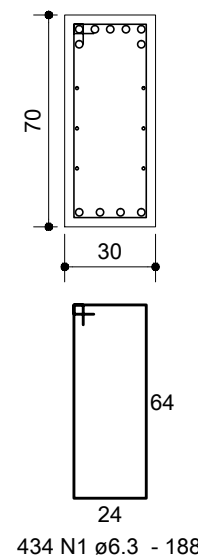
SEÇÃO A-A



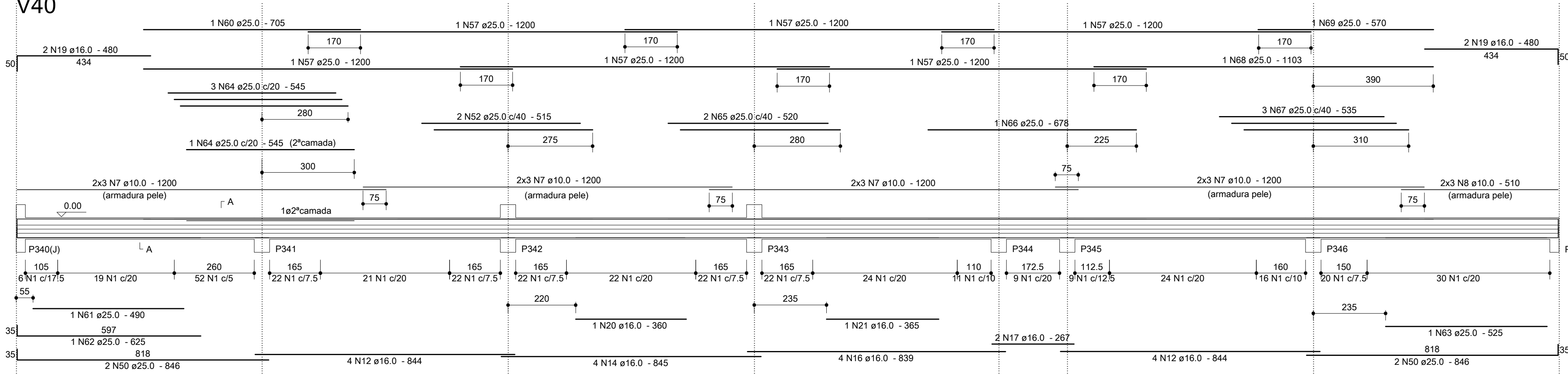
V37



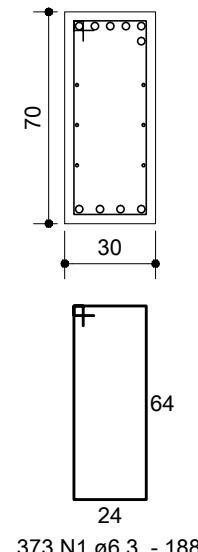
SEÇÃO A-A



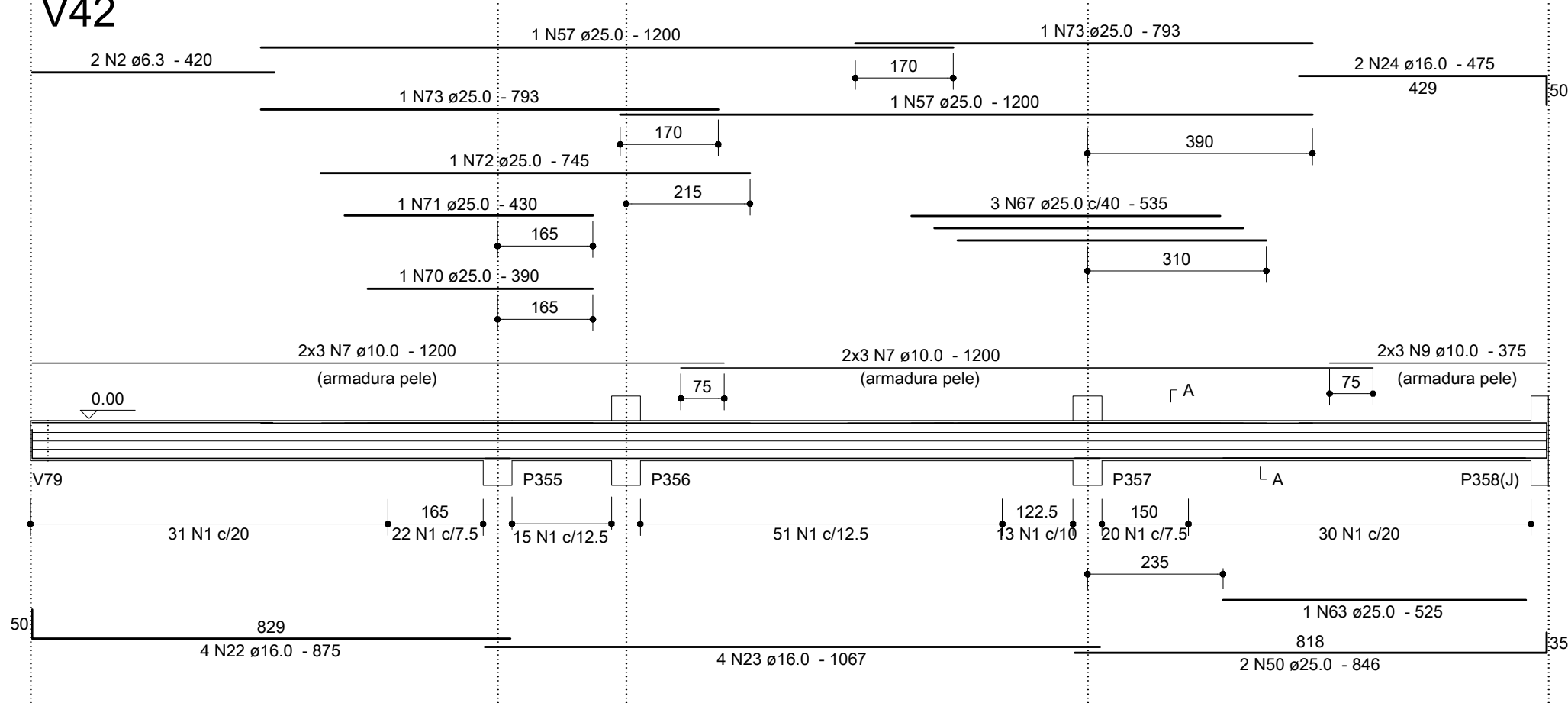
V40



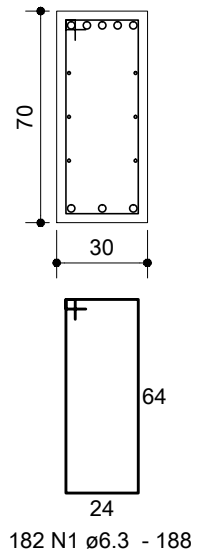
SEÇÃO A-A



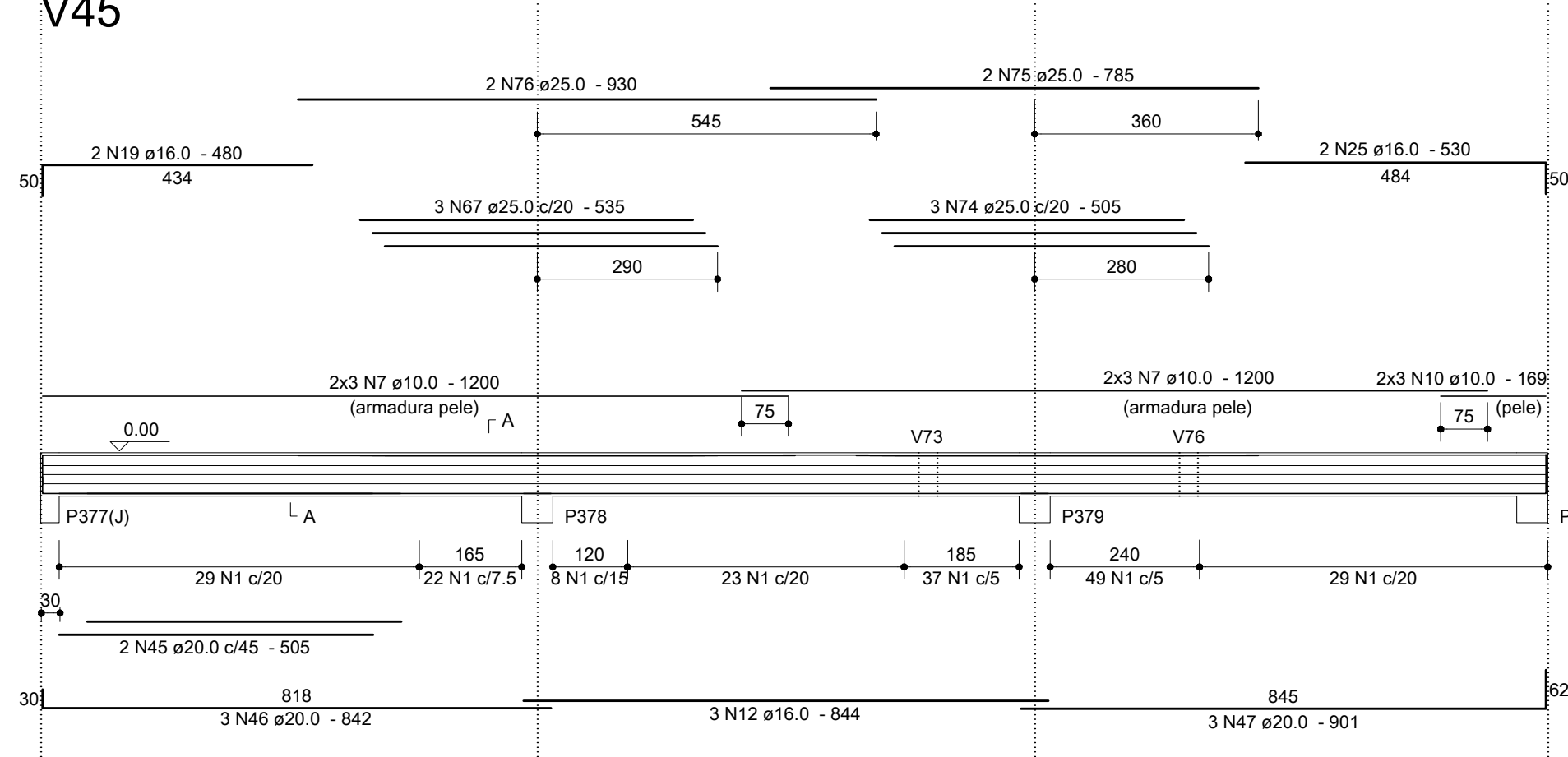
V42



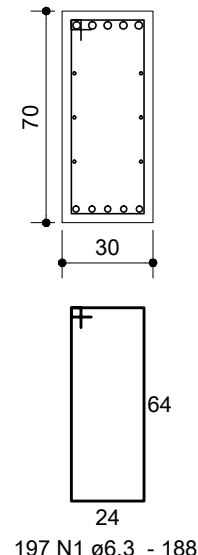
SEÇÃO A-A



V45



SEÇÃO A-A



Relação do Aço

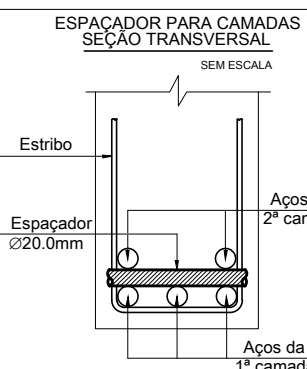
V34, V37, V40, V42, V45.					
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	1421	188	267148
	2	6.3	2	420	840
	3	6.3	2	155	310
	4	6.3	2	190	380
	5	6.3	2	220	440
	6	6.3	2	225	450
	7	10.0	96	1200	115200
	8	10.0	18	510	9180
	9	10.0	6	375	2250
	10	10.0	6	169	1014
	11	16.0	1	335	335
	12	16.0	21	844	17724
	13	16.0	1	355	355
	14	16.0	10	845	8450
	15	16.0	2	375	750
	16	16.0	10	839	8390
	17	16.0	4	267	1068
	18	16.0	1	345	345
	19	16.0	10	480	4800
	20	16.0	1	360	360
	21	16.0	1	365	365
	22	16.0	4	875	3500
	23	16.0	4	1067	4268
	24	16.0	2	475	950
	25	16.0	2	530	1060
	26	16.0	4	450	1800
	27	16.0	3	834	2502
	28	16.0	1	430	430
	29	16.0	2	262	524
	30	16.0	1	400	400
	31	16.0	2	834	1668
	32	16.0	1	434	434
	33	16.0	3	829	2487
	34	16.0	2	510	1020
	35	16.0	4	505	2020
	36	16.0	2	710	1420
	37	16.0	2	415	830
	38	16.0	2	680	1320
	39	16.0	2	650	1300
	40	16.0	1	593	593
	41	16.0	2	773	1546
	42	16.0	4	465	1860
	43	16.0	2	685	1370
	44	16.0	2	535	1070
	45	20.0	2	505	1010
	46	20.0	3	842	2526
	47	20.0	3	901	2703
	48	25.0	2	480	960
	49	25.0	1	685	685
	50	25.0	10	846	8460
	51	25.0	1	680	680
	52	25.0	4	515	2060
	53	25.0	3	530	1590
	54	25.0	1	385	385
	55	25.0	1	693	693
	56	25.0	10	540	5400
	57	25.0	14	1200	16800
	58	25.0	1	1098	1098
	59	25.0	1	565	565
	60	25.0	2	705	1410
	61	25.0	1	490	490
	62	25.0	1	625	625
	63	25.0	2	525	1050
	64	25.0	4	545	2180
	65	25.0	2	520	1040
	66	25.0	1	678	678
	67	25.0	9	535	4815
	68	25.0	1	1103	1103
	69	25.0	1	570	570
	70	25.0	1	390	390
	71	25.0	1	430	430
	72	25.0	1	745	745
	73	25.0	2	793	1586
	74	25.0	3	505	1515
	75	25.0	2	785	1570
	76	25.0	2	930	1860

Resumo dos Materiais

AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	6.3	2695.7	659.6
	10.0	1276.5	787
	16.0	773.2	1220.3
	20.0	62.4	153.9
	25.0	614.4	2367.2
PESO TOTAL (kg)		Vol. concreto = 44.32 m³	
CA50		Área formas = 341.77 m²	

Anotações:

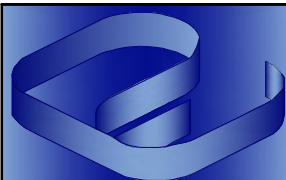
DIÂMETRO (Ø) DOS PINOS DE DOBRAMENTO PARA GANCHOS SEM ESCALA		
BITOLA (Ø)	CA50	CA60
<20mm	5xØ	6xØ
≥20mm	8xØ	—
estribos ≤10mm	3xØ	3xØ
NBR-6118:2003 (itens 9.4.2.3 e 9.4.6.1)		



Notas:

- 01 NBR6118:2007 - Classe de Agressividade Ambiental = II.
02 NBR6118:2007 - Concreto com fck=25MPa - Aço 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;

00	09/07/12	Emissão inicial.		Dionísio	
REVISÃO	DATA	MODIFICAÇÕES		RESP.	



Proger Engenharia Ltda

PROJETOS ESTRUTURAIS - CONSULTORIA - GERENCIAMENTO
DIONÍSIO AUGUSTO AMARCO DE NEVES E SOUZA
Engenheiro Civil - CREA-RJ 52.791-D
IMB/FAU - Professor

Av. Pres. Vargas, 590 - grupo 1309 a 1311
Centro, Rio de Janeiro, RJ CEP:20.071-000
Tel./Fax:(21)2432.0811/Cel.:(21)9987.9477
dionisio@progerengenharia.com.br
http://www.progerengenharia.com.br

CLIENTE:	PÁTIOMIX LINHARES SHOPPING CENTER SPE S.A.	DESENHO:	407_ern03_28_0.dwg
OBRA:	SHOPPING PÁTIOMIX LINHARES Linhares - ES	ESCALA:	arções: 1:25 vigas: 1:100
PROJETO ESTRUTURAL	TETO DO SUBSOLO - VIGAS - SETOR 4 - 01/03	DATA - REVISÃO:	09/07/12 - RO
		PROJETO:	E407
			ARMO3-28