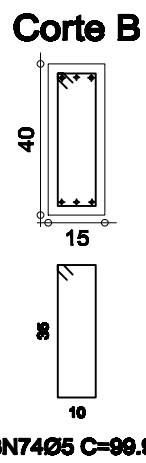
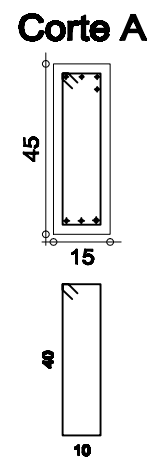
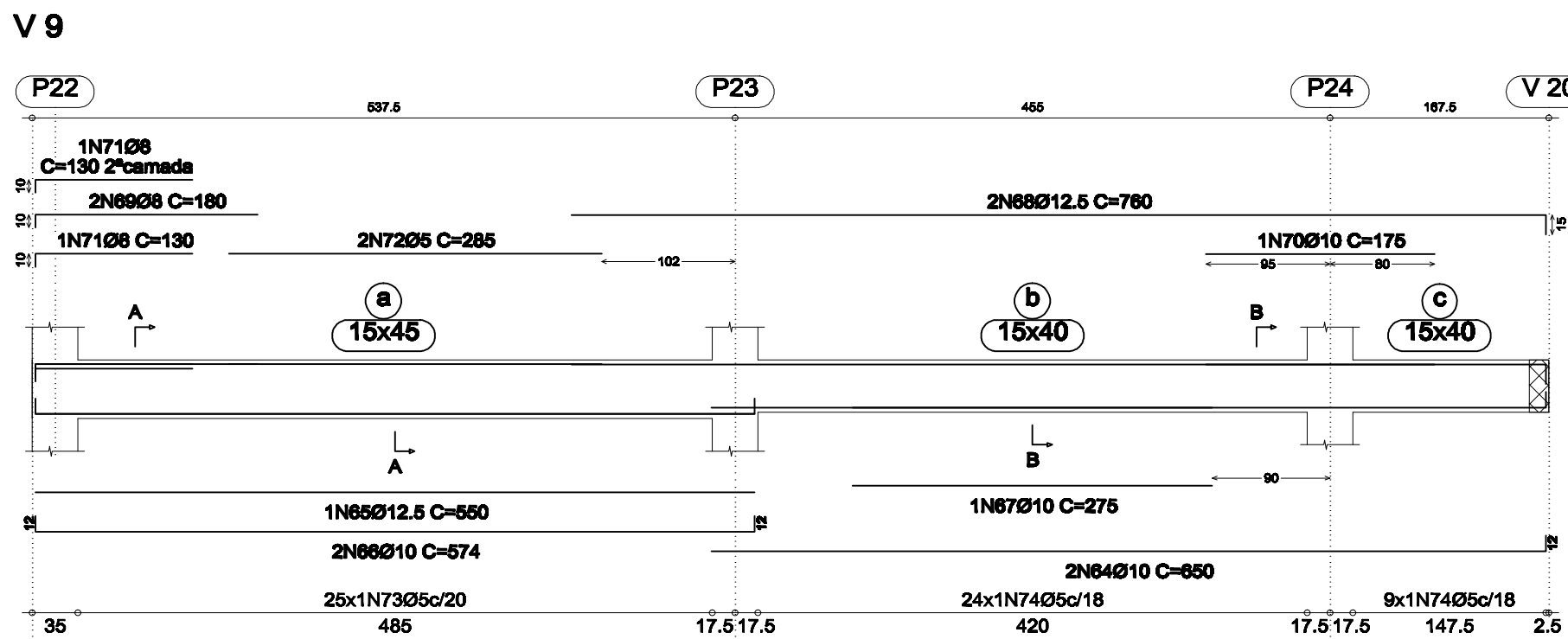
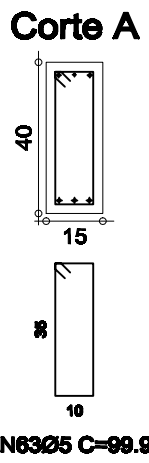
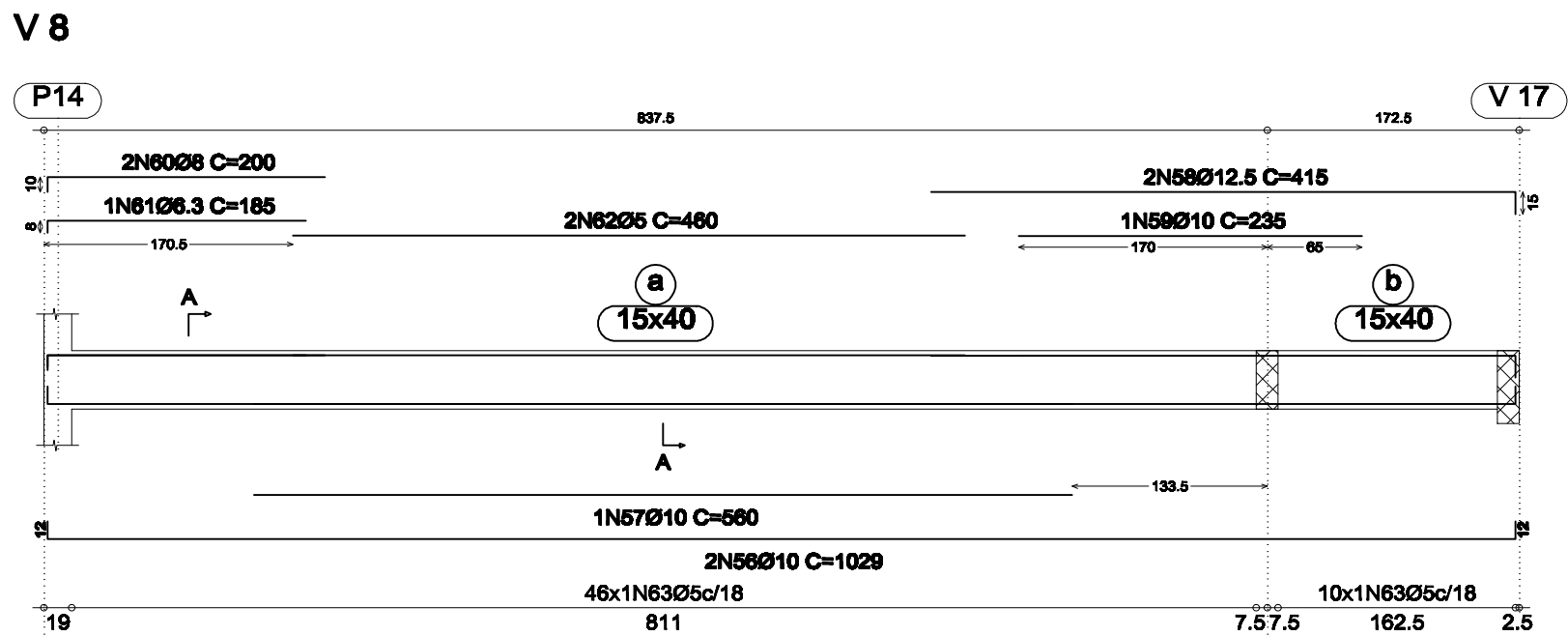
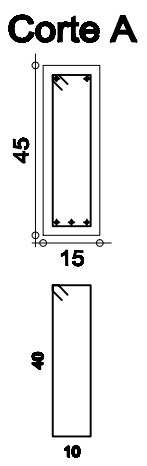
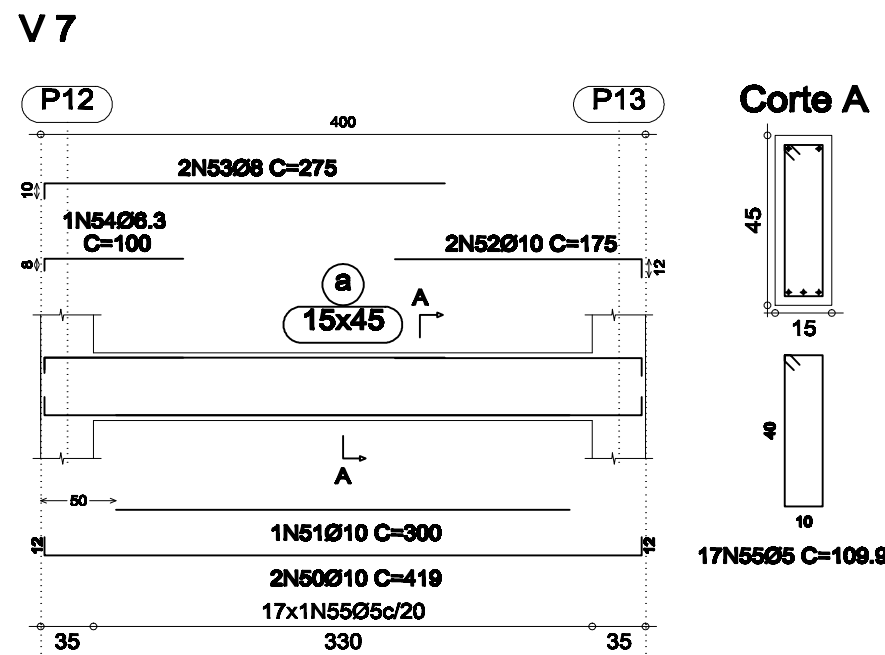
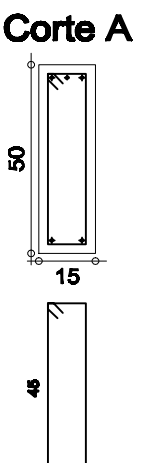
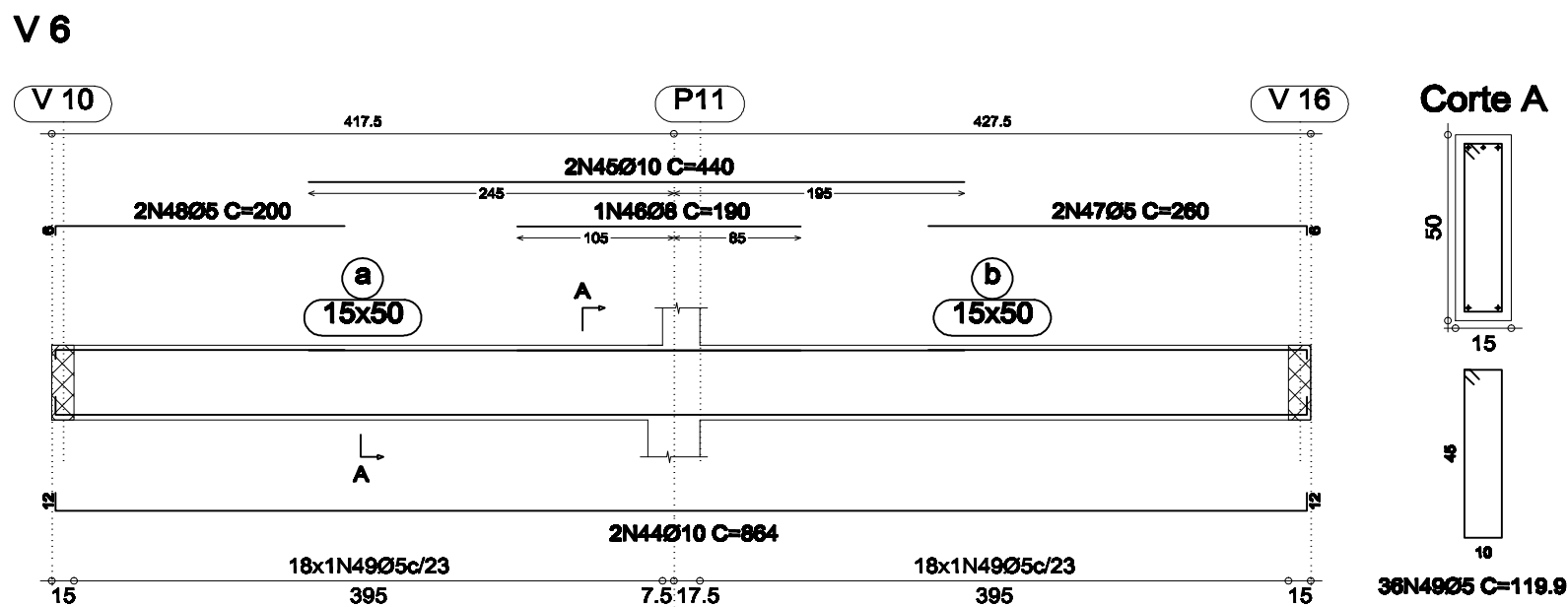
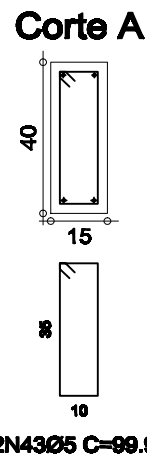
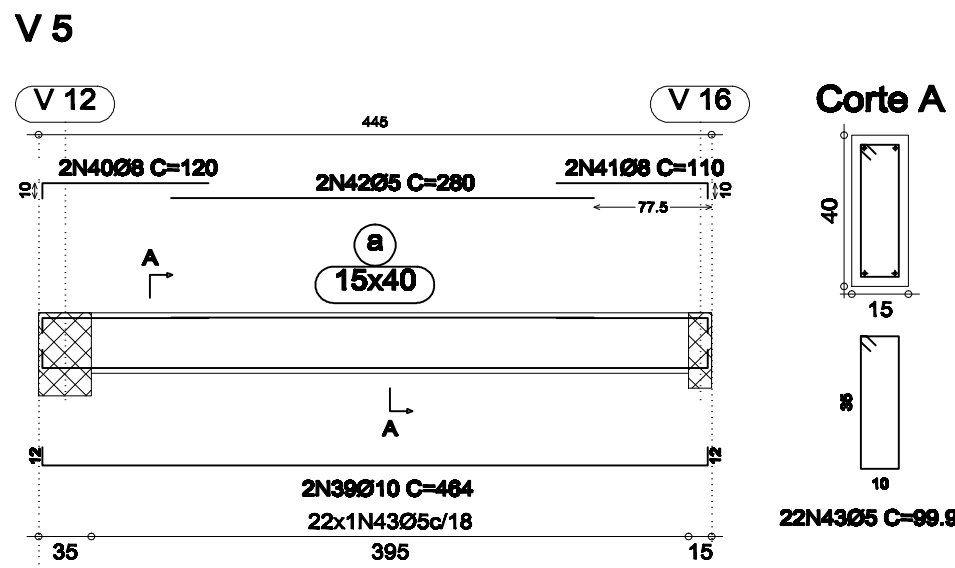
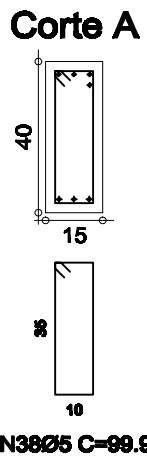
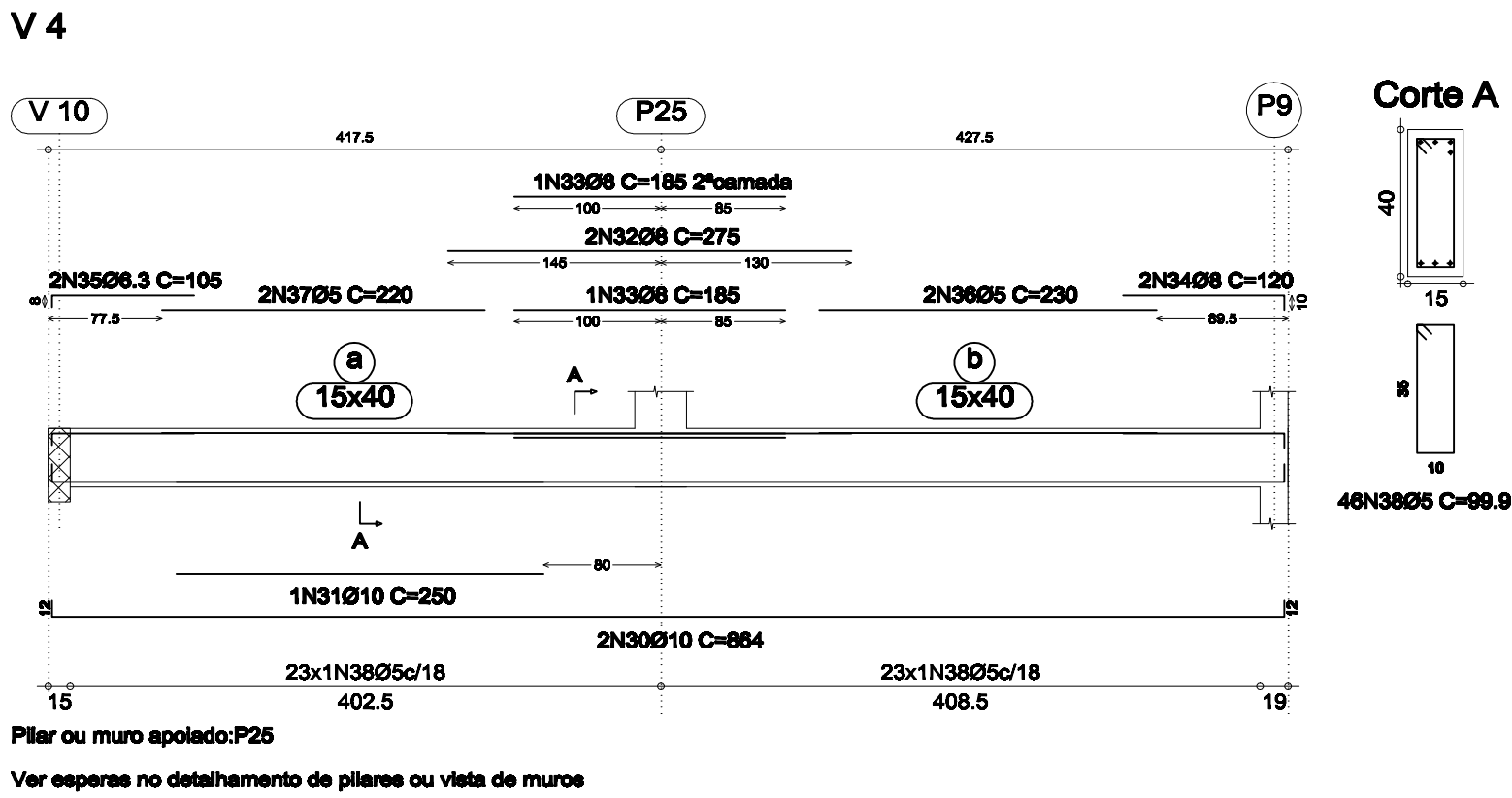
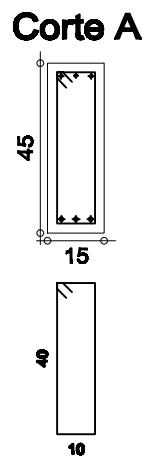
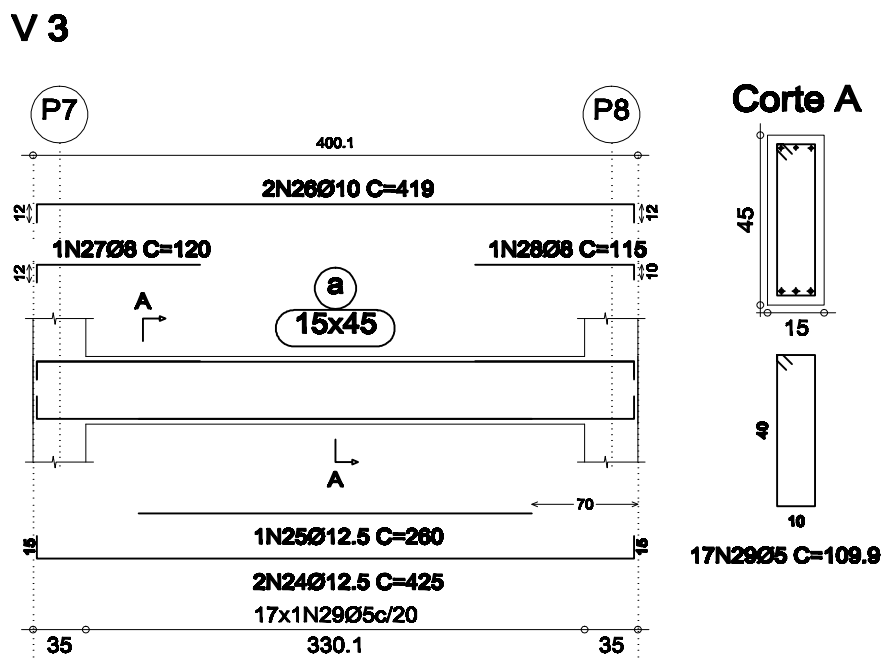
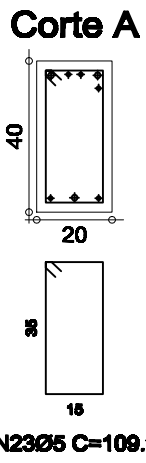
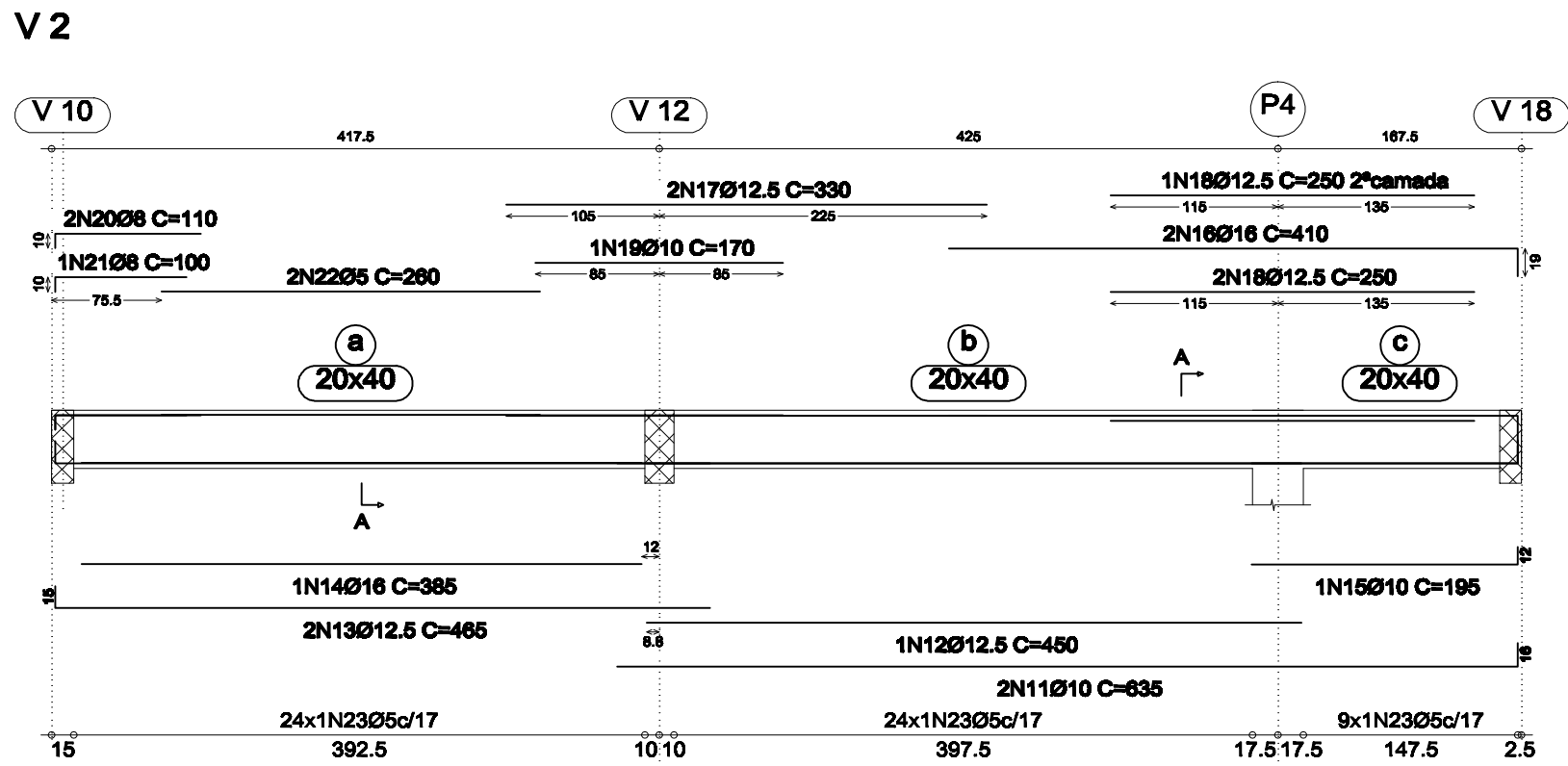
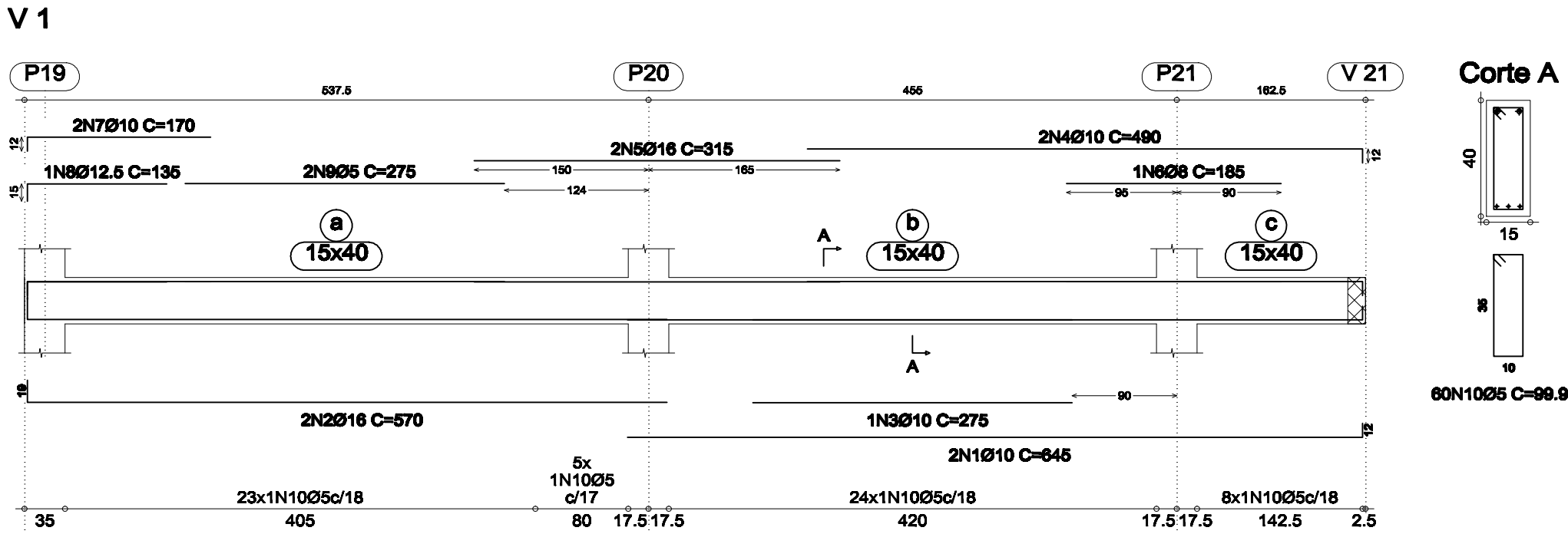


2 Pavto
Desenho de vigas
Concreto: C30, usina rigor
Apo: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

Resumo Aço	Comp. total	Peso+10%	Total
CA-50-A	Ø6.3	130.3	35
	Ø8	92.2	40
	Ø10	396.3	274
	Ø12.5	155.1	167
	Ø16	109.2	189
	Ø20	29.8	81
CA-60-B	Ø5	949.8	164
Total			786



Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-60-B
V 1	1	Ø10	2	633	12	645	1290	8.1		
	2	Ø16	2	19	551	1140	17.9			
	3	Ø10	1	275	275	275	1.7			
	4	Ø10	2	478	12	490	890	6.2		
	5	Ø16	2	315	2	315	630	9.9		
	6	Ø8	1	185	185	185	0.7			
	7	Ø10	2	12	158	170	340	2.1		
	8	Ø12.5	1	15	120	135	135	1.3		
	9	Ø5	2	275	275	275	550		0.9	
	10	Ø5	60		100	6000			9.4	
							Total+10%:	62.7		11.3
V 2	11	Ø10	2	619	16	635	1270	8.0		
	12	Ø12.5	1	450	450	450	4.4			
	13	Ø12.5	2	15	450	465	930	9.1		
	14	Ø16	1	385	385	385	8.0			
	15	Ø10	1	183	12	195	195	1.2		
	16	Ø16	2	391	19	410	820	12.9		
	17	Ø12.5	2	330	330	330	660	6.5		
	18	Ø12.5	3	250	250	250	750	7.4		
	19	Ø10	1	170	170	170	1.1			
	20	Ø8	2	10	100	110	220	0.9		
	21	Ø8	1	10	90	100	100	0.4		
	22	Ø5	2	280	280	280	520		0.8	
	23	Ø5	57		110	6270			9.8	
							Total+10%:	63.7		11.7
V 3	24	Ø12.5	2	15	395	425	850	8.3		
	25	Ø12.5	1	260	260	260	2.6			
	26	Ø10	2	12	385	419	838	5.3		
	27	Ø8	1	12	108	120	120	0.5		
	28	Ø8	1	105	105	115	115	0.5		
	29	Ø5	17		110	1870			2.9	
							Total+10%:	18.9		3.2
V 4	30	Ø10	2	12	840	864	1728	10.9		
	31	Ø10	1	250	250	250	1.6			
	32	Ø8	2	275	275	275	550	2.2		
	33	Ø8	2	185	185	185	370	1.5		
	34	Ø8	2	110	10	120	240	0.4		
	35	Ø6.3	2	8	97	105	210	0.5		
	36	Ø5	2	230	230	230	460		0.7	
	37	Ø5	2	220	220	220	440		0.7	
	38	Ø5	46		100	4600			7.2	
							Total+10%:	19.4		9.5
V 5	39	Ø10	2	12	440	464	928	5.8		
	40	Ø8	2	10	110	120	240	0.9		
	41	Ø8	2	100	10	110	220	0.9		
	42	Ø5	2	280	280	280	560		0.9	
	43	Ø5	22		100	2200			3.5	
							Total+10%:	8.4		4.8
V 6	44	Ø10	2	12	840	864	1728	10.9		
	45	Ø10	2	440	440	440	880	5.5		
	46	Ø8	1	190	190	190	380	0.7		
	47	Ø5	2	254	6	260	520		0.8	
	48	Ø5	2	194	200	200	400		0.6	
	49	Ø5	36		120	4320			6.8	
							Total+10%:	18.8		9.0
V 7	50	Ø10	2	12	395	419	838	5.3		
	51	Ø10	1	300	300	300	1.9			
	52	Ø10	2	163	175	175	350	2.2		
	53	Ø8	2	10	285	275	550	2.2		
	54	Ø6.3	1	8	92	100	100	0.2		
	55	Ø5	17		110	1870			2.9	
							Total+10%:	13.0		3.2
V 8	56	Ø10	2	12	1005	1029	2058	12.9		
	57	Ø10	1	560	560	560	3.5			
	58	Ø12.5	2	400	415	415	830	8.1		
	59	Ø10	1	235	235	235	235	1.5		
	60	Ø8	2	10	190	200	400	1.6		
	61	Ø6.3	1	8	177	185	185	0.5		
	62	Ø5	2	480	460	460	920		1.4	
	63	Ø5	56		100	5600			8.6	
							Total+10%:	30.9		11.2
V 9	64	Ø10	2	638	12	650	1300	8.2		
	65	Ø12.5	1	550	550	550	5.4			
	66	Ø10	2	12	550	574	1148	7.2		
	67	Ø10	1	275	275	275	1.7			
	68	Ø12.5	2	745	15	760	1520	14.9		
	69	Ø8	2	170	180	180	360	1.4		
	70	Ø10	2	10	175	175	175	1.1		
	71	Ø8	2	10	120	130	260	1.0		
	72	Ø5	2	285	285	285	570		0.9	
	73	Ø5	25		110	2750			4.3	
	74	Ø5	33		100	3300			5.2	
							Total+10%:	45.0		11.4
							Ø5:	0.0		
							Ø6.3:	1.3		
							Ø8:	18.0		
							Ø10:	125.2		
							Ø12.5:	74.9		
							Ø16:	51.4		
							Total:	270.8		76.3

Meta

ENGENHARIA E PLANEJAMENTO

PROJETO ESTRUTURAL

OBRA 8º BATALHÃO DE BOMBEIROS MILITAR - CONV. PMT
AV. PATRÍCIO LIMA, 804 - HUMAITÁ - TUBARÃO - S.C.

ASSUNTO VIGAS 2º PAVIMENTO

ÁREA: 610,43 M²

PRANCHA CII

ESC.: INDICADA

DATA: MARÇO / 2018

PROJ.: 18-003

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EQUIPE TÉCNICA

CHARLES MENDES DE SOUZA

CREA/SC 41.1411-4

REVISÃO Nº

DATA

COMENTÁRIO

COLABORADOR

00

19/02/2018

EMIÇÃO PARCIAL

ENG. CHARLES

01

19/03/2018

EMIÇÃO FINAL

ENG. CHARLES

CHARLES MENDES DE SOUZA

PROPRIETÁRIO

R. Cel. José Martins Cabral, 42 - SI 1 - Centro - Tubarão - S.C.

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