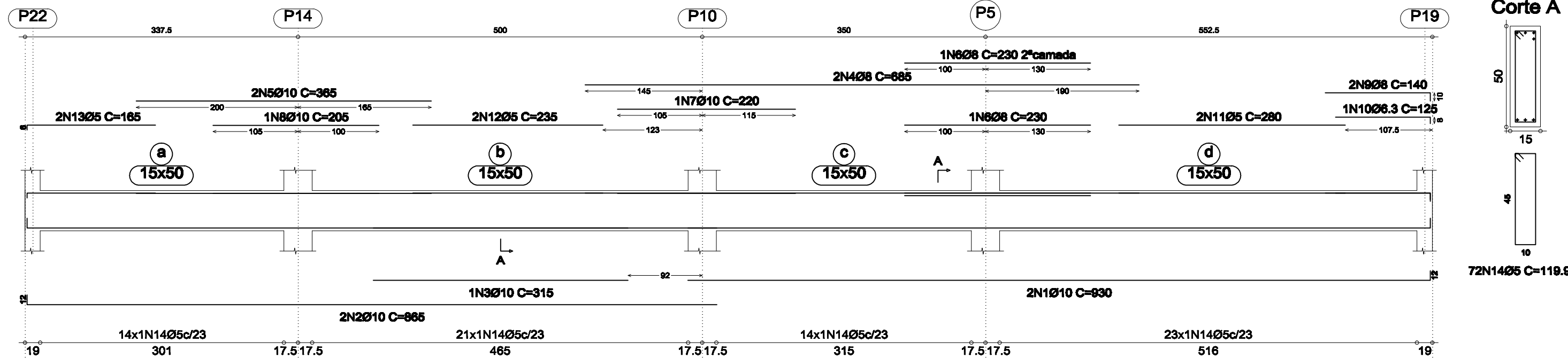
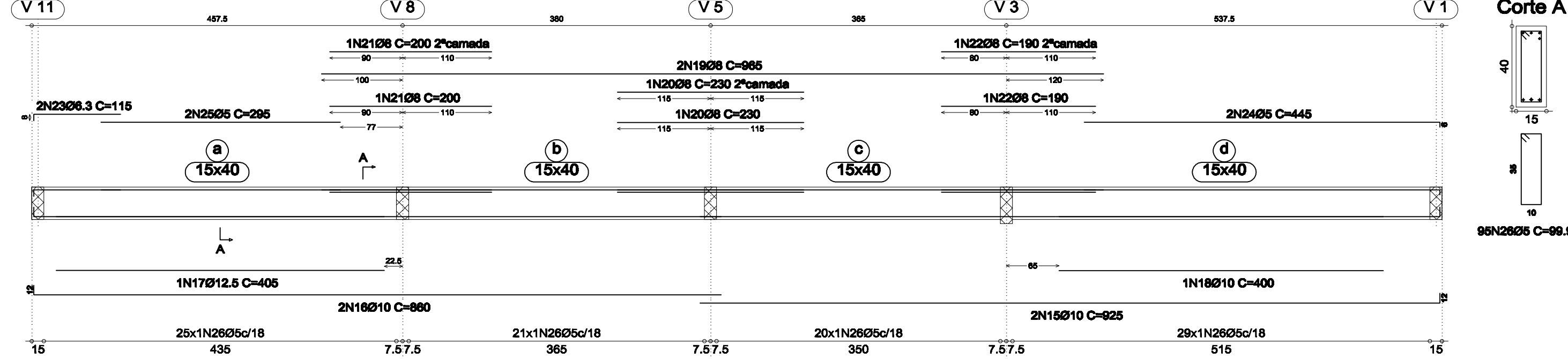


3 Pavto
Desenho de vigas
Concreto: C30, usina.rigor
Aço: CA-50-A e CA-60-B
Escala Vigas: 1:50
Escala seções: 1:20

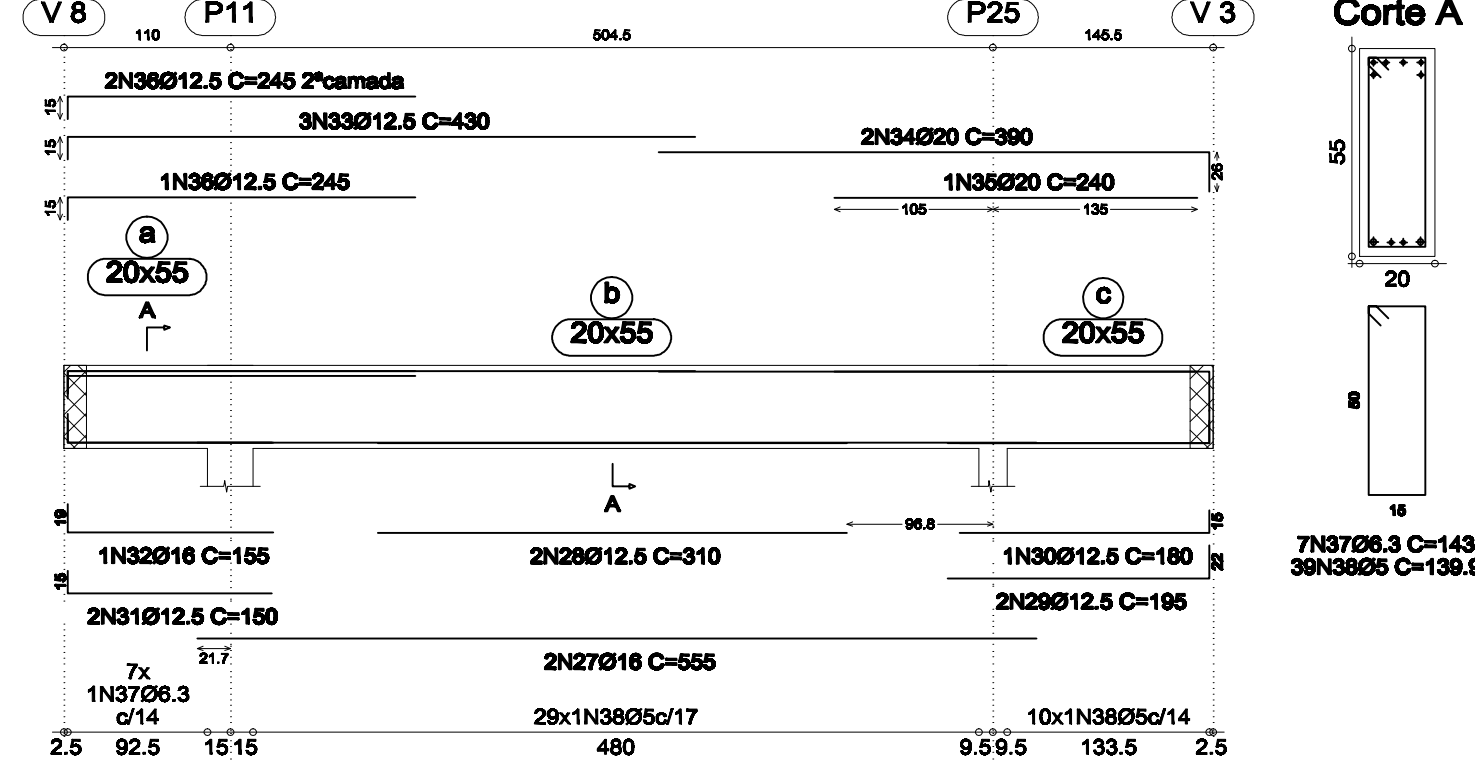
V 12



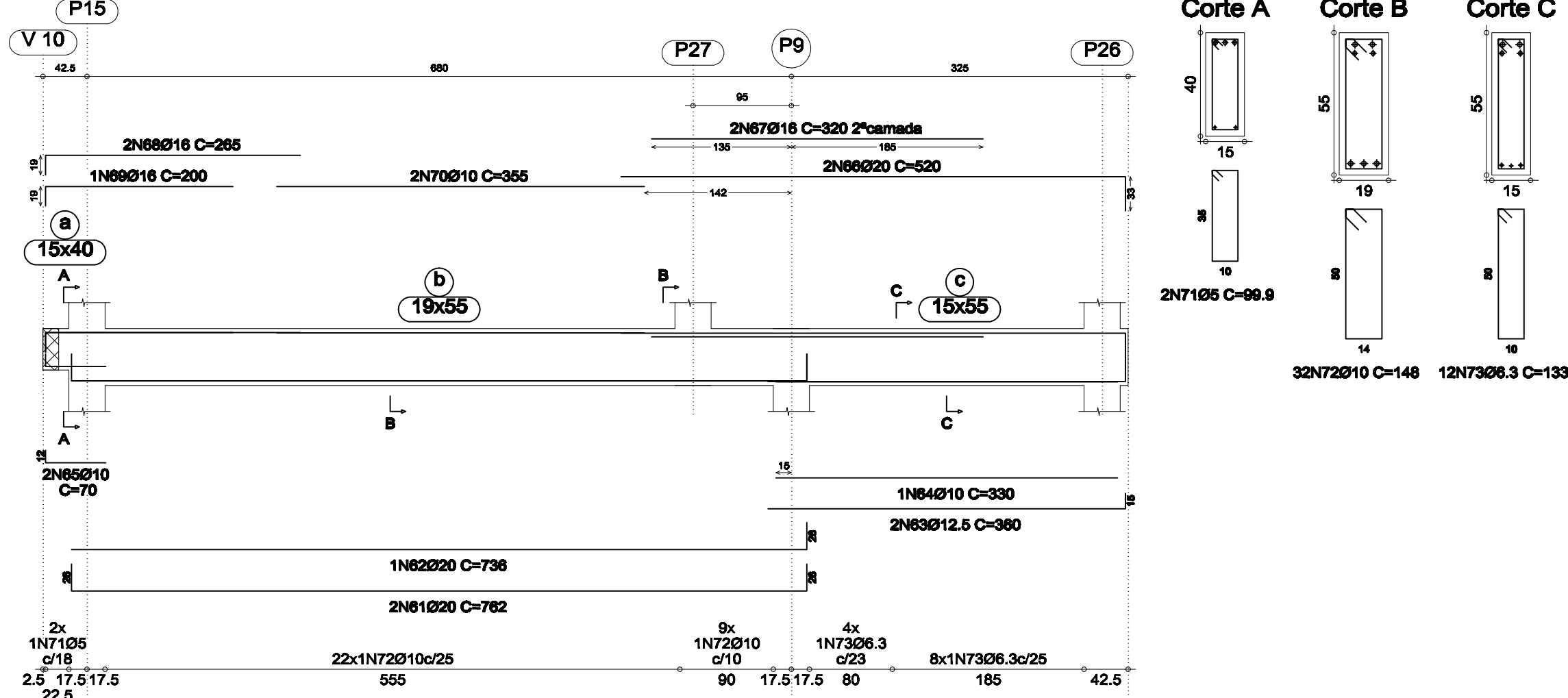
V 13



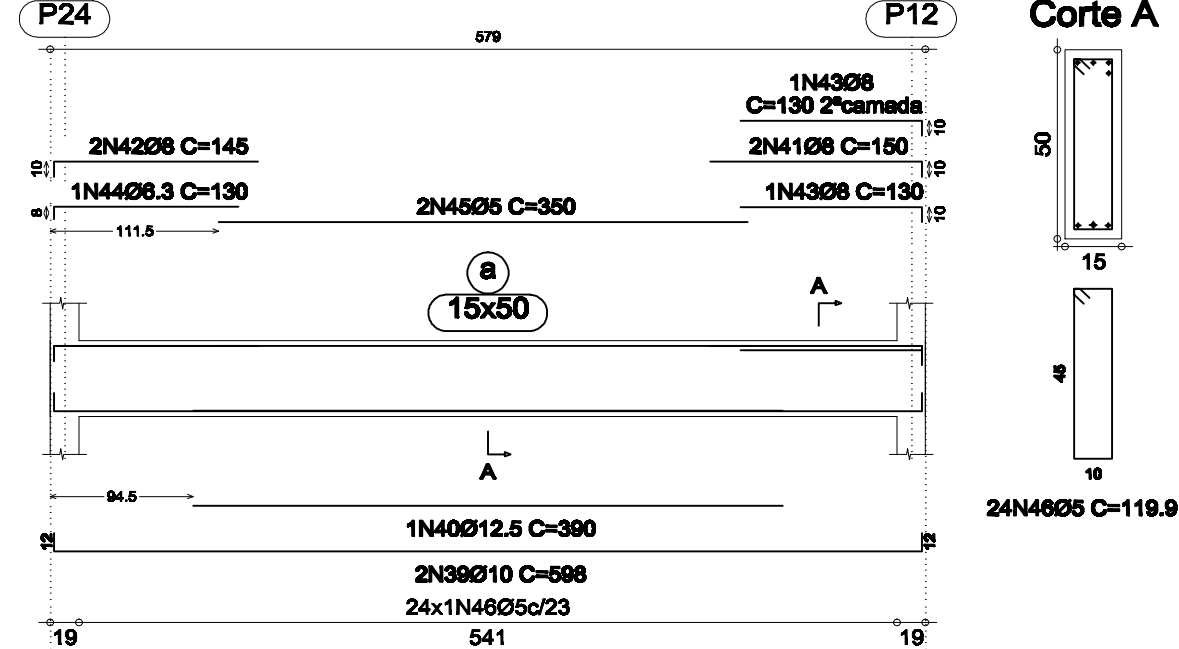
V 14



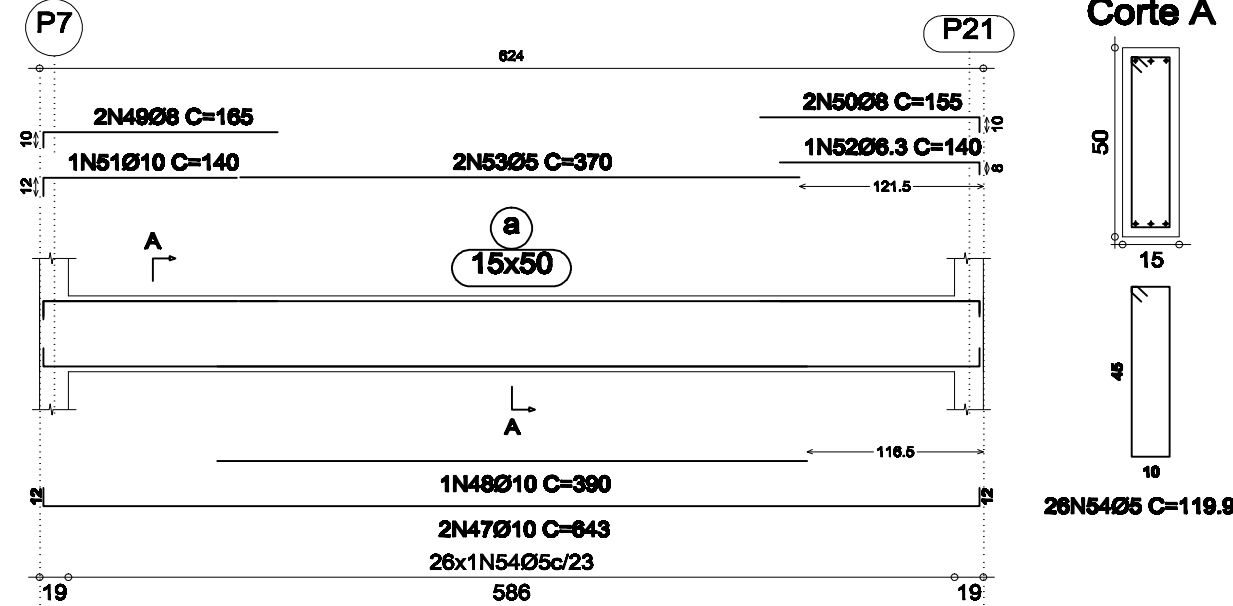
V 15



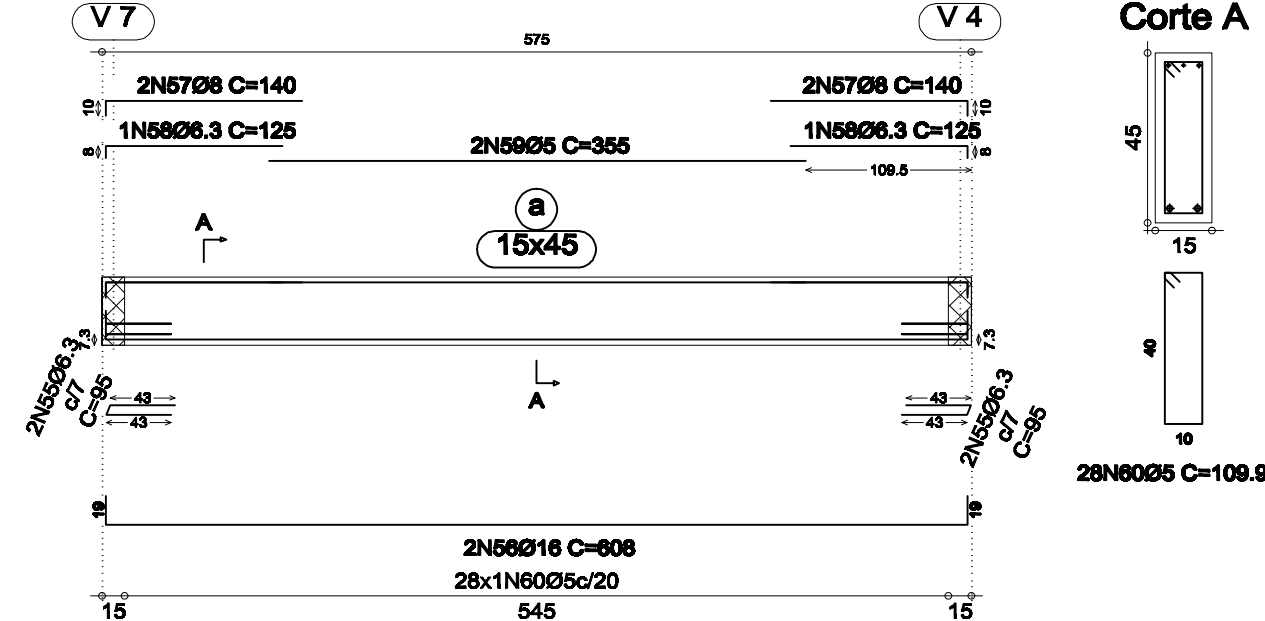
V 16



V 17



V 18



Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50-A	CA-60-B
V 12	1	Ø10	2	12	918	12	930	1860	11.7	
	2	Ø10	2	12	853		865	1730	10.9	
	3	Ø10	1		315		315	315	2.0	
	4	Ø8	2		885		885	1370	5.4	
	5	Ø10	2		365		365	730	4.6	
	6	Ø8	2		230		230	460	1.8	
	7	Ø10	1		220		220	220	1.4	
	8	Ø10	1		205		205	205	1.3	
	9	Ø8	2		130	10	130	140	280	1.1
	10	Ø6.3	1		117	8	125	125	0.3	
	11	Ø5	2		280		280	560		0.9
	12	Ø5	2		235		235	470		0.7
	13	Ø5	2	6	159		165	330		0.5
	14	Ø5	72				120	8640		13.6
Total+10%:									44.8	17.3
V 13	15	Ø10	2	12	913	12	925	1850	11.6	
	16	Ø10	2		848		860	1720	10.8	
	17	Ø12.5	1		405		405	405	4.0	
	18	Ø10	1		400		400	400	2.5	
	19	Ø8	2		965		965	1930	7.6	
	20	Ø8	2		230		230	460	1.8	
	21	Ø8	2		200		200	400	1.6	
	22	Ø8	2		190		190	380	1.5	
	23	Ø6.3	2	8	107		115	230	0.6	
	24	Ø5	2		439	6	445	890		1.4
	25	Ø5	2		295		295	590		0.9
	26	Ø5	95				100	9500		14.9
Total+10%:									48.2	18.9
V 14	27	Ø16	2		555		555	1110	17.4	
	28	Ø12.5	2		310		310	620	6.1	
	29	Ø12.5	2		173	22	195	390	3.8	
	30	Ø12.5	1		165	15	180	180	1.8	
	31	Ø12.5	2	15	135		150	300	2.9	
	32	Ø16	1	19	136		155	155	2.4	
	33	Ø12.5	3	15	415		430	1290	12.7	
	34	Ø20	2		364	26	390	780	19.3	
	35	Ø20	1		240		240	240	5.9	
	36	Ø12.5	3	15	230		245	735	7.2	
	37	Ø6.3	7				140	1001	2.5	
	38	Ø5	39				140	5460		8.6
Total+10%:									90.2	9.5
V 16	39	Ø10	2	12	574	12	598	1198	7.5	
	40	Ø12.5	1		390		390	390	3.8	
	41	Ø8	2		140	10	150	300	1.2	
	42	Ø8	2	10	135		145	290	1.1	
	43	Ø8	2		120	10	130	260	1.0	
	44	Ø6.3	1	8	122		130	130	0.3	
	45	Ø5	2		350		350	700		1.1
	46	Ø5	24				120	2880		4.5
Total+10%:									16.4	6.2
V 17	47	Ø10	2	12	619	12	643	1286	8.1	
	48	Ø10	1		390		390	390	2.4	
	49	Ø8	2	10	155		165	330	1.3	
	50	Ø8	2		145	10	155	310	1.2	
	51	Ø10	1	12	128		140	140	0.9	
	52	Ø6.3	1		132	8	140	140	0.3	
	53	Ø5	2		370		370	740		1.2
	54	Ø5	26				120	3120		4.9
Total+10%:									15.6	6.7
V 18	55	Ø6.3	4	43	9	43	95	360	0.9	
	56	Ø16	2	19	570	19	608	1216	19.1	
	57	Ø8	4	10	130		140	560	2.2	
	58	Ø6.3	2	8	117		125	250	0.6	
	59	Ø5	2		355		355	710		1.1
	60	Ø5	28				110	3080		4.8
Total+10%:									25.1	6.5
V 15	61	Ø20	2	26	710	26	762	1524	37.7	
	62	Ø20	1		710	26	736	736	18.2	
	63	Ø12.5	2		345	15	360	720	7.1	
	64	Ø10	1		330		330	330	2.1	
	65	Ø10	2	12	58		70	140	0.9	
	66	Ø20	2		487	33	520	1040	25.7	
	67	Ø16	2		320		320	640	10.0	
	68	Ø16	2	19	248		265	530	8.3	
	69	Ø16	1	19	181		200	200	3.1	
	70	Ø10	2		355		355	710	4.5	
	71	Ø5	2				100	200		0.3
	72	Ø10	31				148	4368		28.8
	73	Ø6.3	12				133	1596		3.9
Total+10%:									165.3	0.3
									Ø5:	0.0
									Ø6.3:	10.4
									Ø8:	31.7
									Ø10:	123.2
									Ø12.5:	54.2
									Ø16:	66.3
									Ø20:	117.6
									Total:	403.4
										65.4

Pilar ou muro apoiado:P27

Ver esperas no detalhamento de pilares ou vista de muros

Meta

15 ANOS

ENGENHARIA E PLANEJAMENTO

PROJETO ESTRUTURAL

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

ASSUNTO VIGAS 3º PAVIMENTO

ÁREA: 610,43 M²

PRANCHA C17

ESC.: INDICADA

DATA : MARÇO / 2018

PROJ.: 18-003

EQUIPE TÉCNICA CHARLES MENDES DE SOUZA CREA/SC 41.411-4

REVISÃO Nº DATA COMENTÁRIO COLABORADOR

00 19/02/2018 EMISSÃO PARCIAL ENG. CHARLES

01 19/03/2018 EMISSÃO FINAL ENG. CHARLES

CHARLES MENDES DE SOUZA PROPRIETÁRIO

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