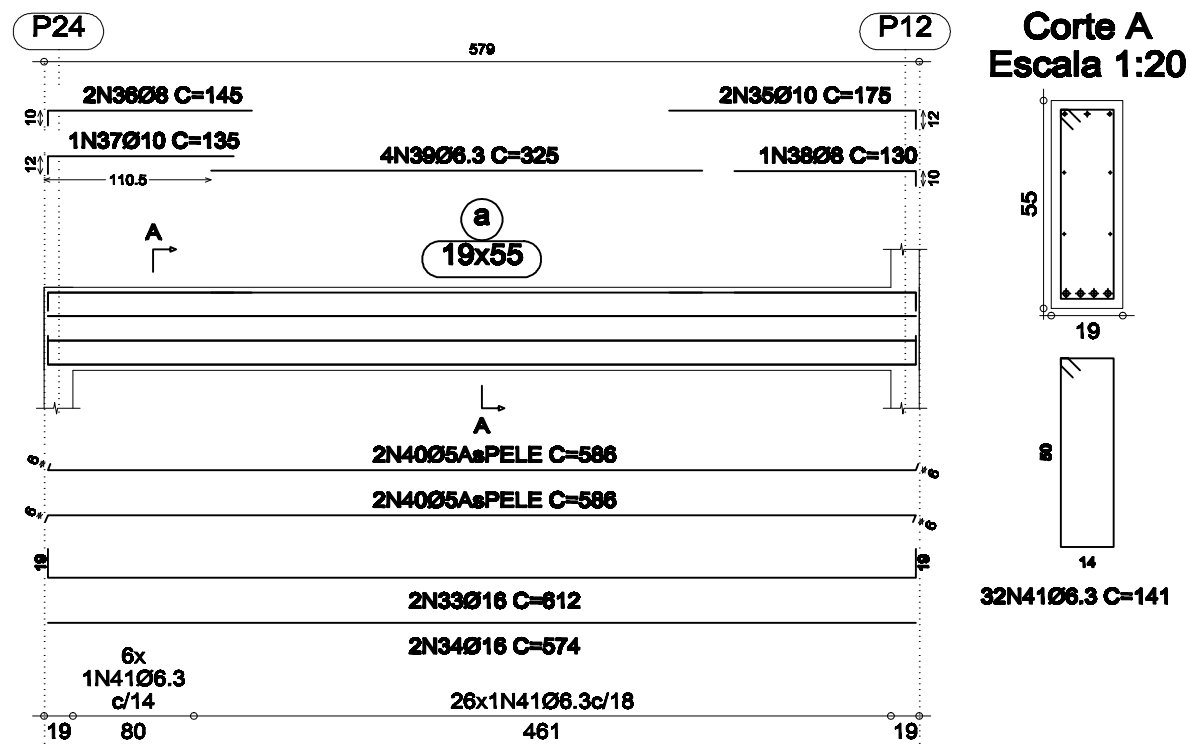
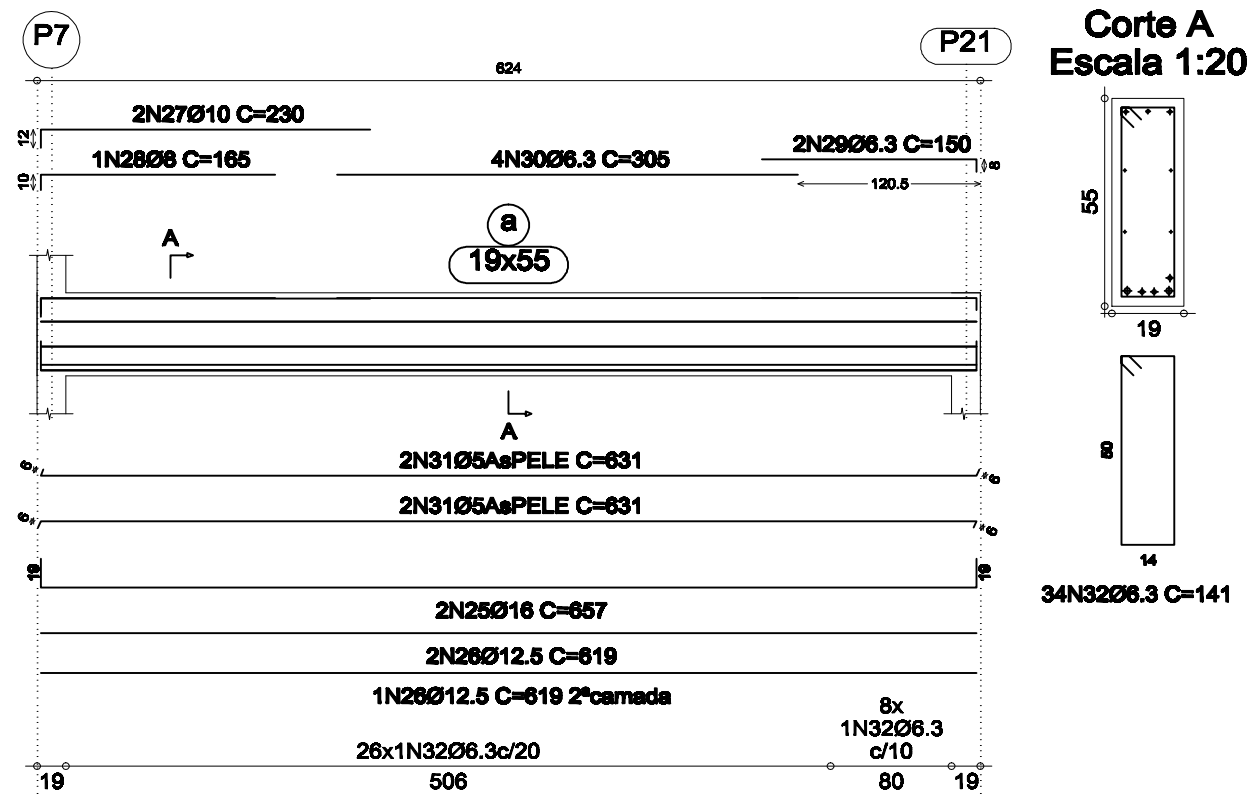


Cobertura  
Desenho de vigas  
Concreto: C30, usina rigor  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:20

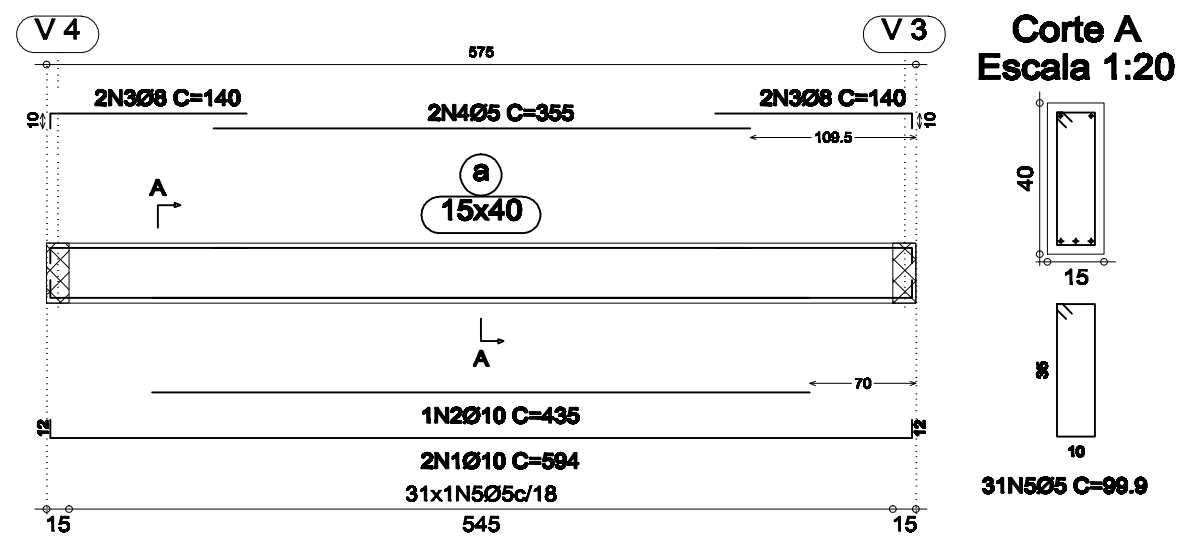
V 9  
Escala 1:50



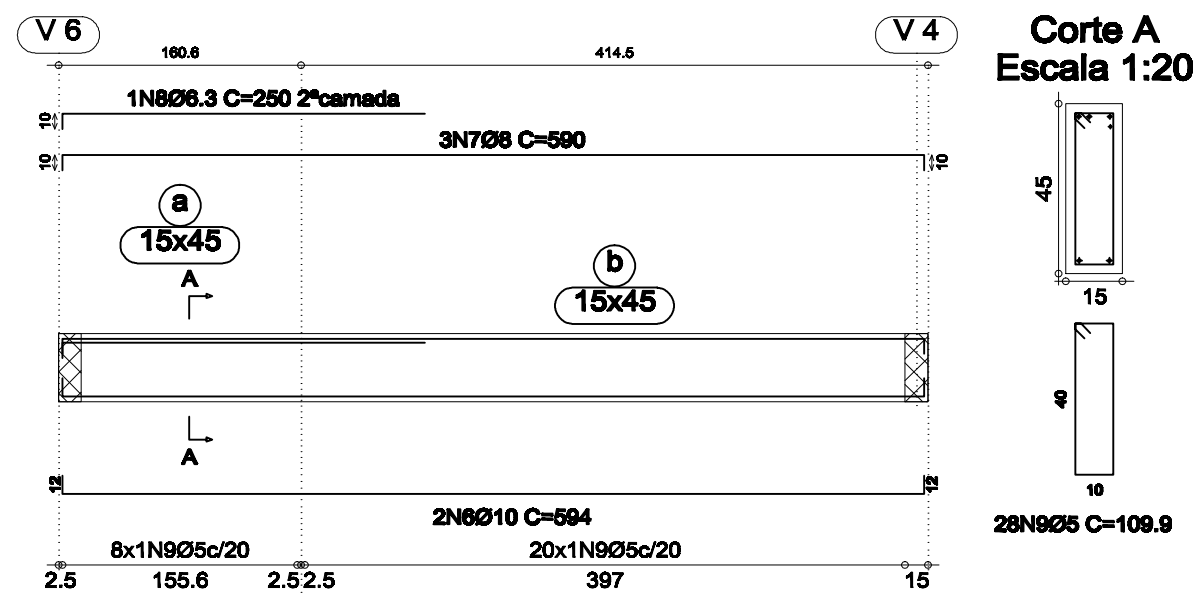
V 10  
Escala 1:50



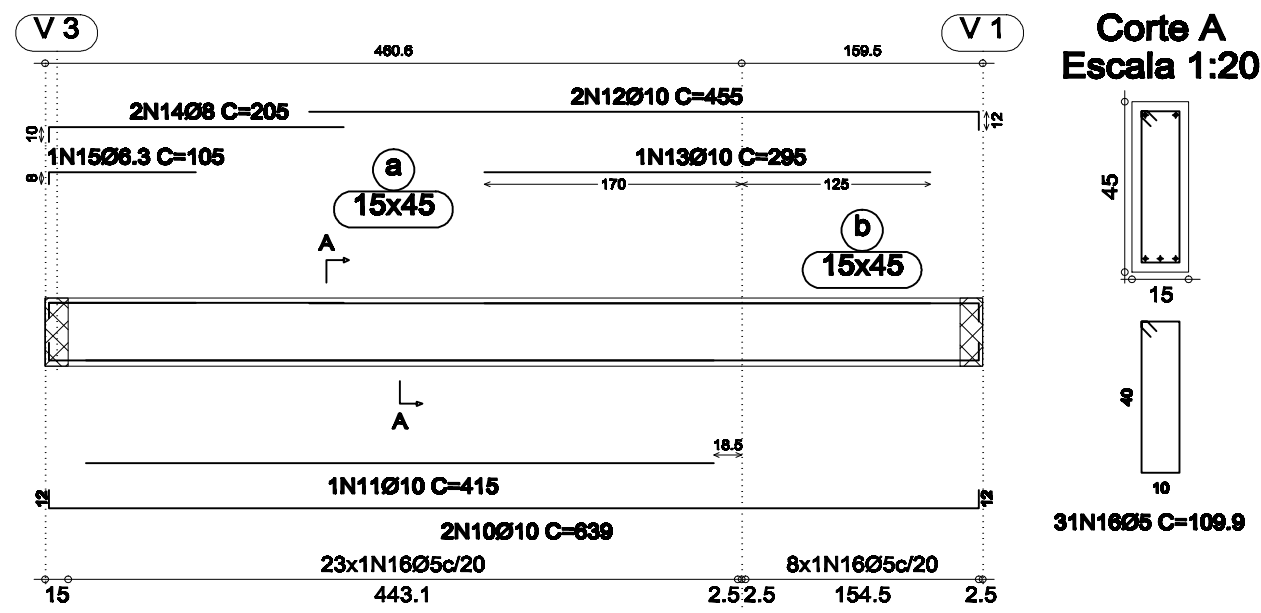
V 11  
Escala 1:50



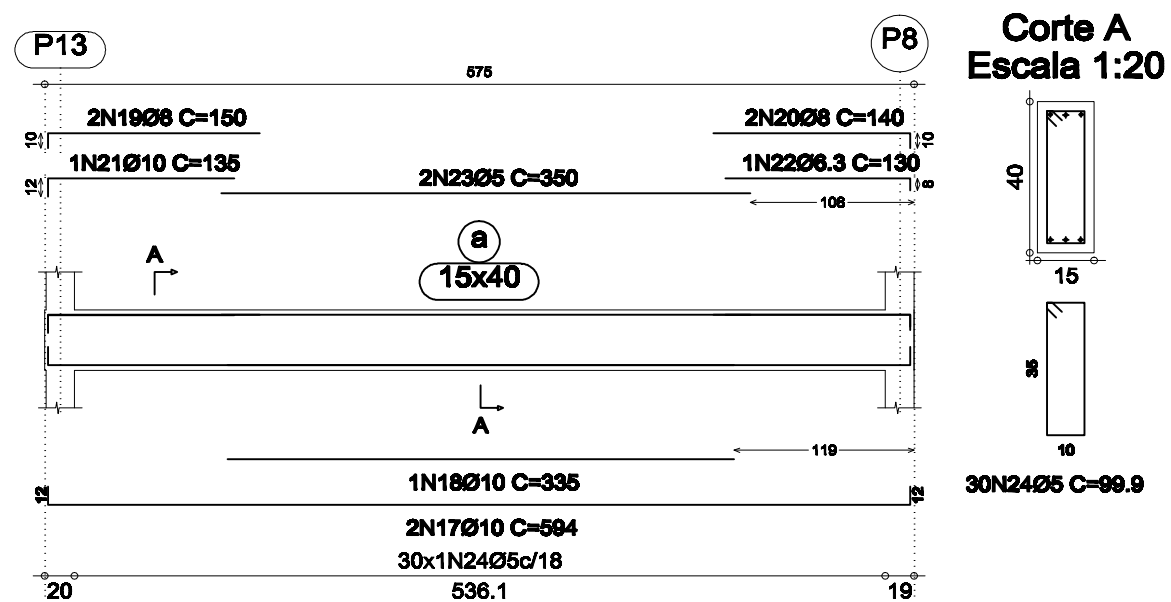
V 12  
Escala 1:50



V 13  
Escala 1:50



V 14  
Escala 1:50



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 11	1	Ø10	2	12	570	12	594	1188	7.5	
	2	Ø10	1		435		435	435	2.7	
	3	Ø8	4	10	130		140	560	2.2	
	4	Ø5	2		355		355	710		1.1
	5	Ø5	31				100	3100		4.9
Total+10%:									13.8	6.6
V 12	6	Ø10	2	12	570	12	594	1188	7.5	
	7	Ø8	3	10	570	10	590	1770	6.9	
	8	Ø6.3	1	10	240		250	250	0.8	
	9	Ø5	28				110	3080		4.8
Total+10%:									16.5	5.3
V 13	10	Ø10	2	12	615	12	639	1278	8.0	
	11	Ø10	1		415		415	415	2.6	
	12	Ø10	2		443	12	455	910	5.7	
	13	Ø10	1		295		295	295	1.9	
	14	Ø8	2	10	195		205	410	1.8	
	15	Ø6.3	1	8	97		105	105	0.3	
	16	Ø5	31				110	3410		5.4
Total+10%:									22.1	5.9
V 14	17	Ø10	2	12	570	12	594	1188	7.5	
	18	Ø10	1		335		335	335	2.1	
	19	Ø8	2	10	140	10	150	300	1.2	
	20	Ø8	2		130		140	280	1.1	
	21	Ø10	1	12	123		135	135	0.8	
	22	Ø6.3	1		122	8	130	130	0.3	
	23	Ø5	2		350		350	700		1.1
	24	Ø5	30				100	3000		4.7
Total+10%:									14.3	6.4
V 10	25	Ø16	2	19	619	19	637	1314	20.8	
	26	Ø12.5	3		619		619	1857	18.2	
	27	Ø10	2	12	218		230	460	2.9	
	28	Ø8	1	10	155		165	165	0.8	
	29	Ø6.3	2		142	8	150	300	0.7	
	30	Ø6.3	4		305		305	1220	3.0	
	31	Ø5	4	6	619	6	631	2524		4.0
	32	Ø6.3	34				141	4794	11.9	
Total+10%:									63.7	4.4
V 9	33	Ø16	2	19	574	19	612	1224	19.2	
	34	Ø16	2		574		574	1148	18.0	
	35	Ø10	2		163	12	175	350	2.2	
	36	Ø8	2	10	135		145	290	1.1	
	37	Ø10	1	12	123		135	135	0.8	
	38	Ø8	1		120	10	130	130	0.5	
	39	Ø6.3	4		325		325	1300	3.2	
	40	Ø5	4	8	574	6	588	2344		3.7
	41	Ø6.3	32				141	4512	11.2	
Total+10%:									61.8	4.1
Ø5:									0.0	32.7
Ø6.3:									34.3	0.0
Ø8:									16.7	0.0
Ø10:									57.4	0.0
Ø12.5:									20.0	0.0
Ø18:									83.6	0.0
Total:									192.0	32.7

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 COBERTURA

ÁREA: 610,43 M<sup>2</sup>

PRANCHA C22

ESC.: INDICADA

DATA : MARÇO / 2018

PROJ.: 18-003

EQUIPE TÉCNICA CHARLES MENDES DE SOUZA CREA/SC 41.141-4

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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