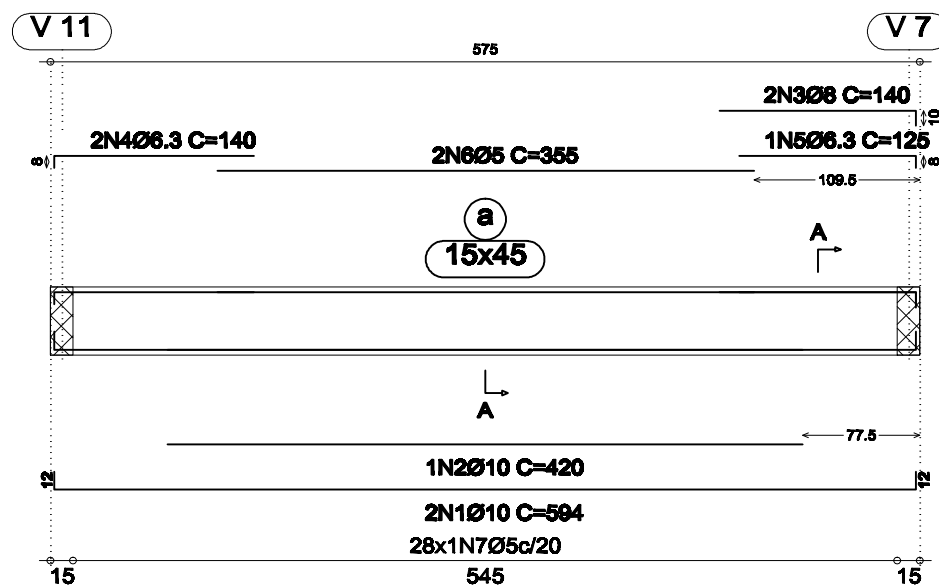
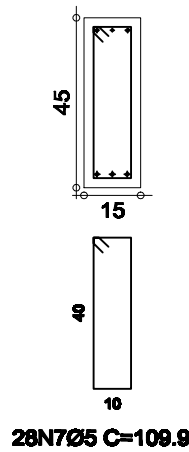


V 19



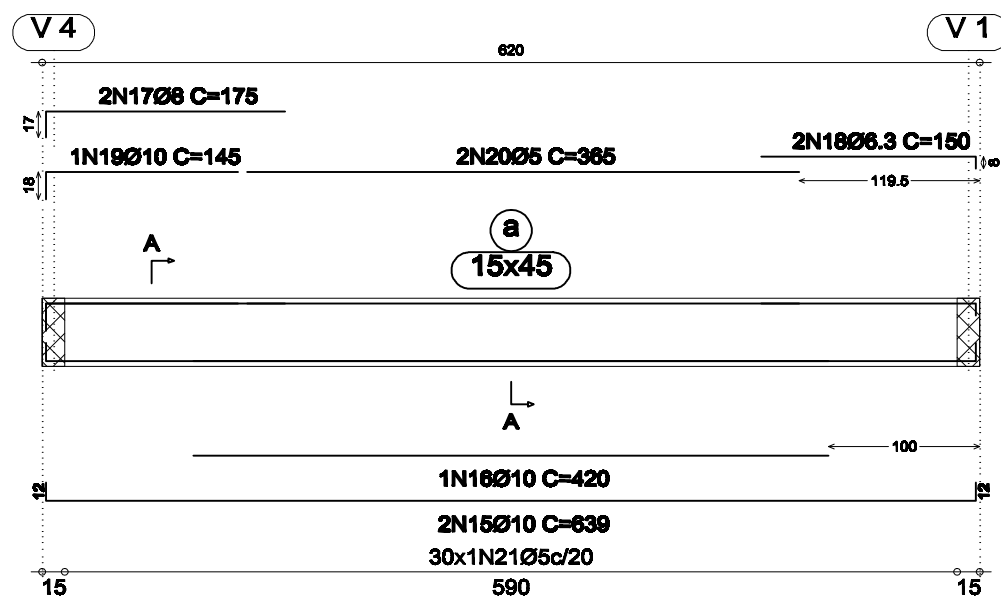
Corte A



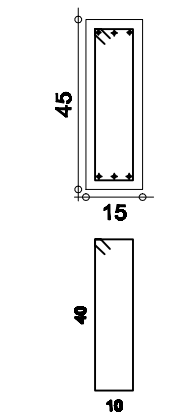
28N7Ø5 C=109.9

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 20

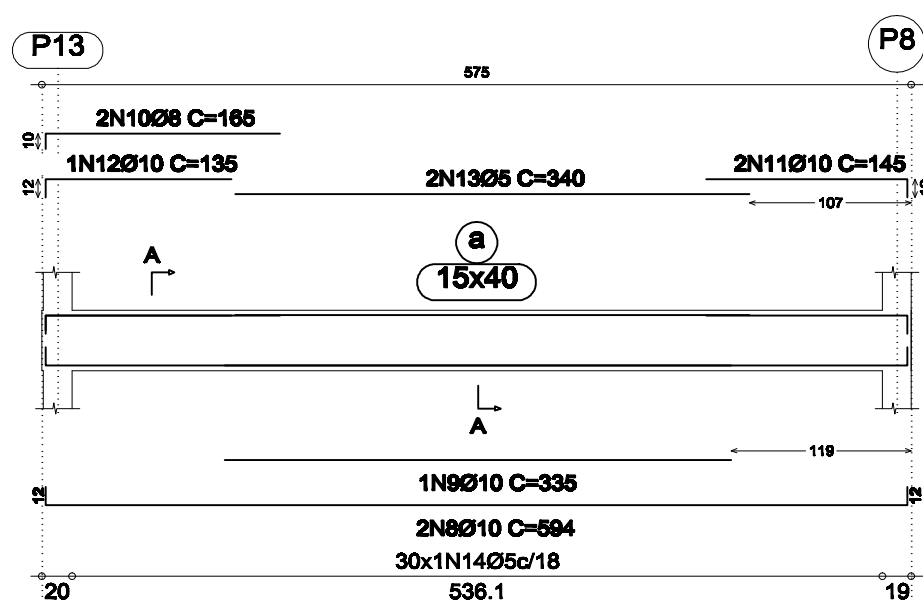


Corte A

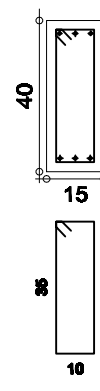


30N21Ø5 C=109.9

V 21



Corte A

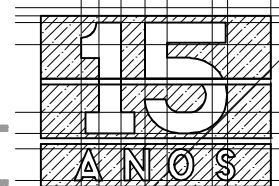


30N14Ø5 C=99.9

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 19	1	Ø10	2	12	570	12	594	1188	7.5	
	2	Ø10	1		420		420	420	2.6	
	3	Ø8	2		130	10	140	280	1.1	
	4	Ø6.3	2	8	132		140	280	0.7	
	5	Ø6.3	1		117	8	125	125	0.3	
	6	Ø5	2		355		355	710		1.1
	7	Ø5	28				110	3080		4.8
Total+10%:									13.4	6.5
V 21	8	Ø10	2	12	570	12	594	1188	7.5	
	9	Ø10	1		335		335	335	2.1	
	10	Ø8	2	10	155		165	330	1.3	
	11	Ø10	2		133	12	145	290	1.8	
	12	Ø10	1	12	123		135	135	0.8	
	13	Ø5	2		340		340	680		1.1
	14	Ø5	30				100	3000		4.7
Total+10%:									14.9	6.4
V 20	15	Ø10	2	12	615	12	639	1278	8.0	
	16	Ø10	1		420		420	420	2.6	
	17	Ø8	2	17	158		175	350	1.4	
	18	Ø6.3	2		142	8	150	300	0.7	
	19	Ø10	1	18	127		145	145	0.9	
	20	Ø5	2		365		365	730		1.1
	21	Ø5	30				110	3300		5.2
Total+10%:									15.0	6.9
									Ø5:	0.0
									Ø6.3:	1.9
									Ø8:	4.2
									Ø10:	37.2
									Total:	43.3
										19.8

Meta

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

C18

ESC.: INDICADA

DATA : MARÇO / 2018

PROJ.: I8-003

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EQUIPE TÉCNICA

CHARLES MENDES DE SOUZA

CREA/SC 41.411-4

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

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