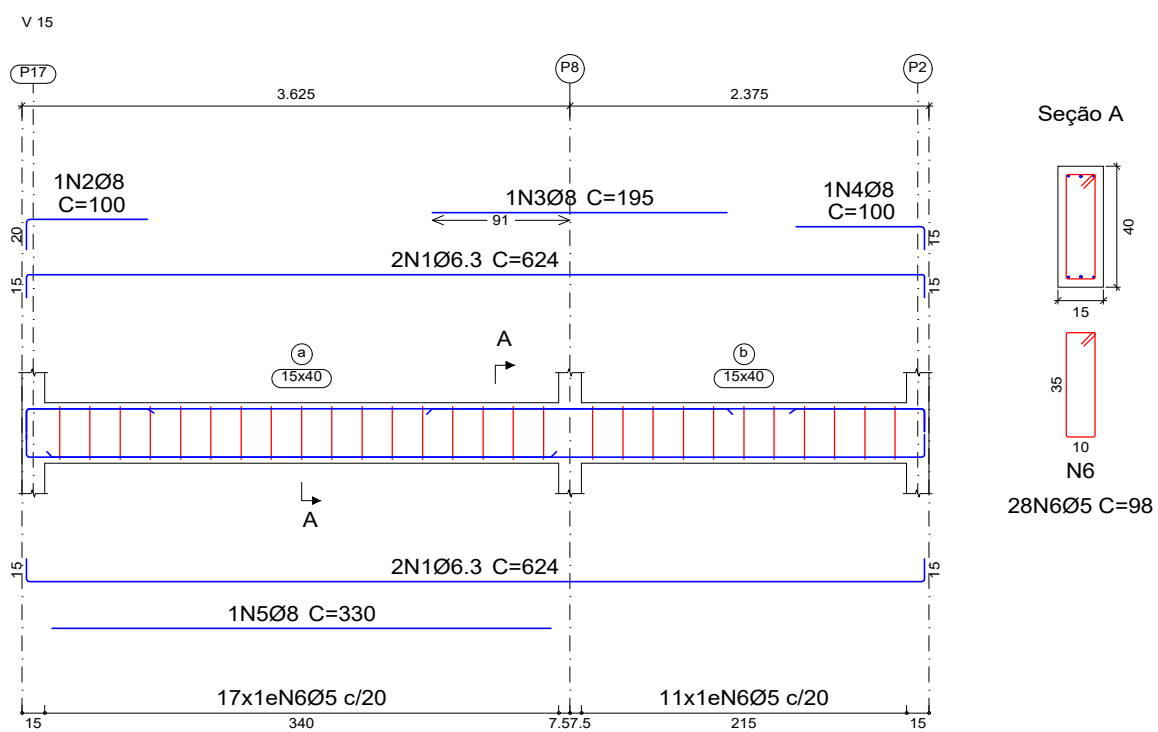
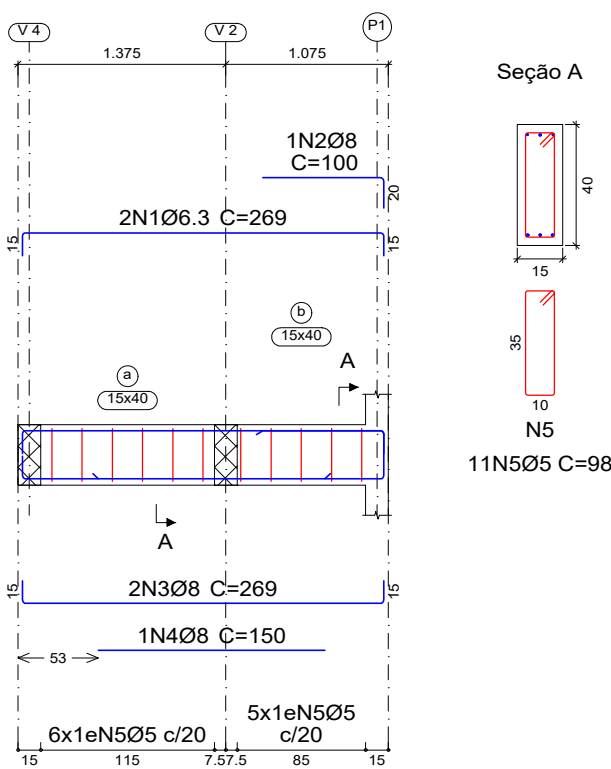
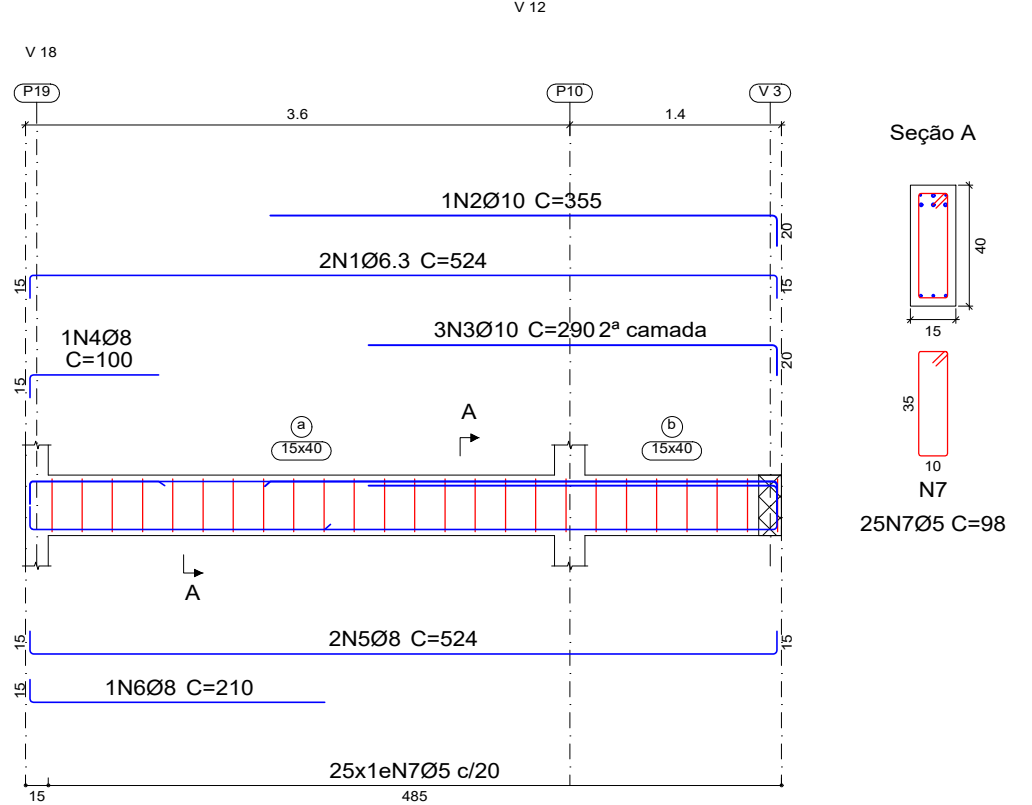
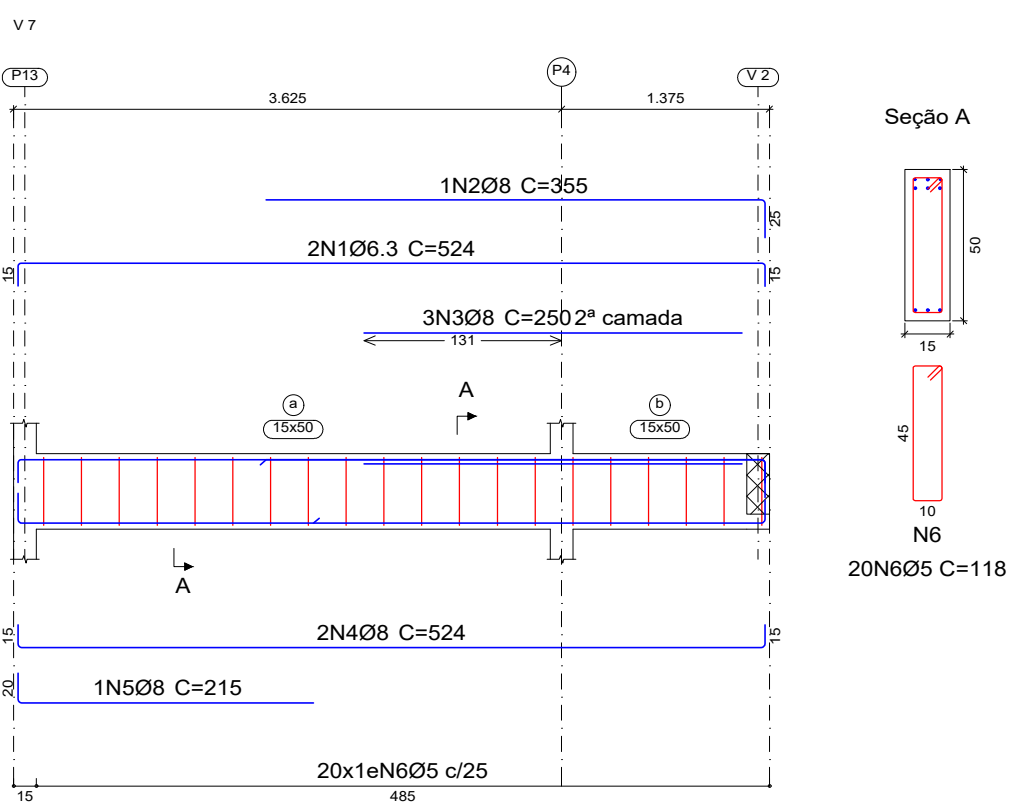
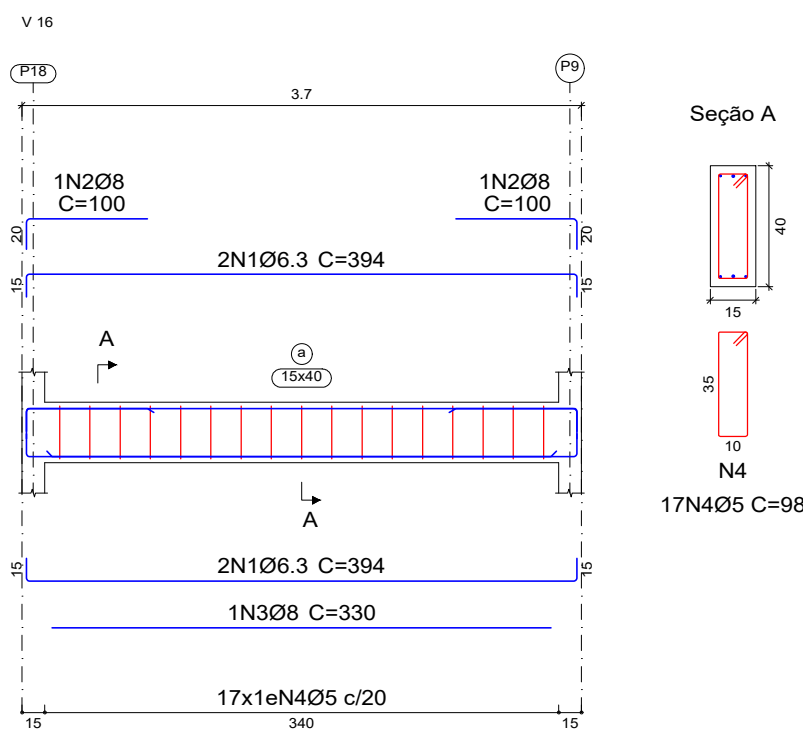
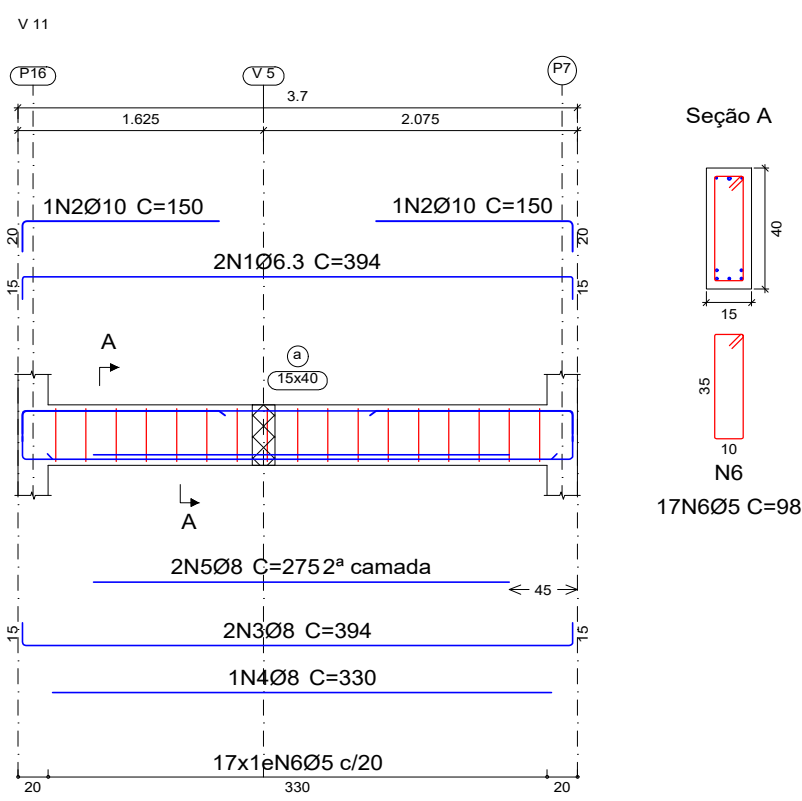
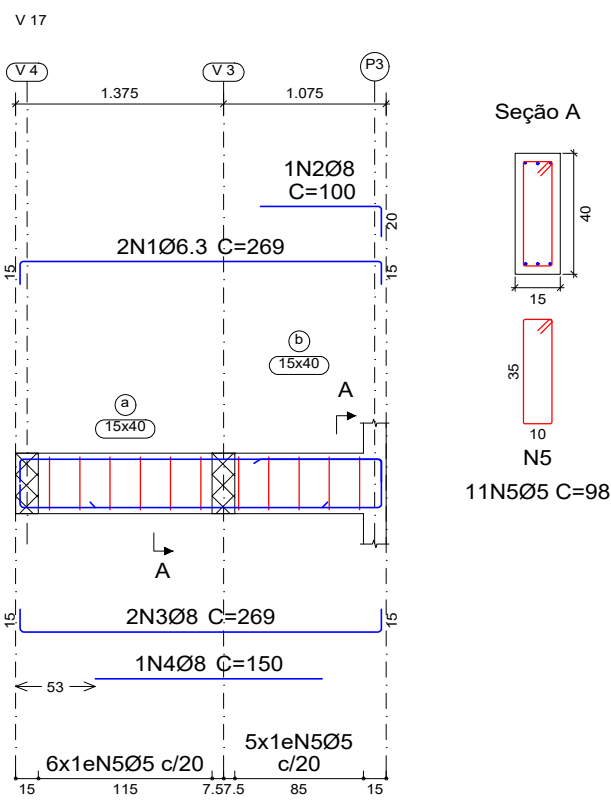
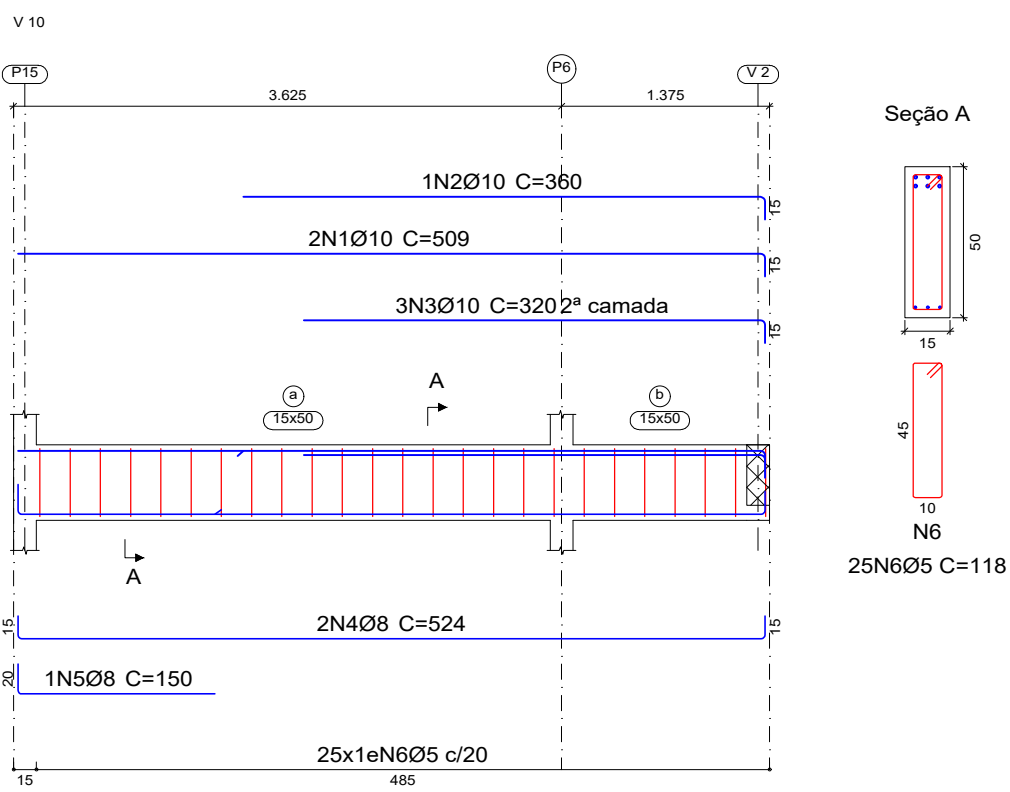
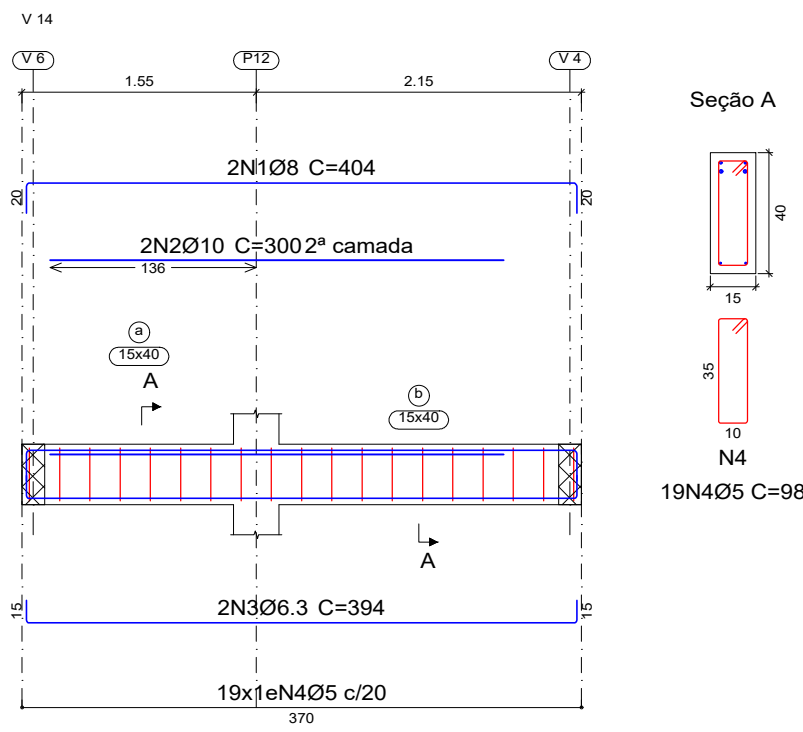
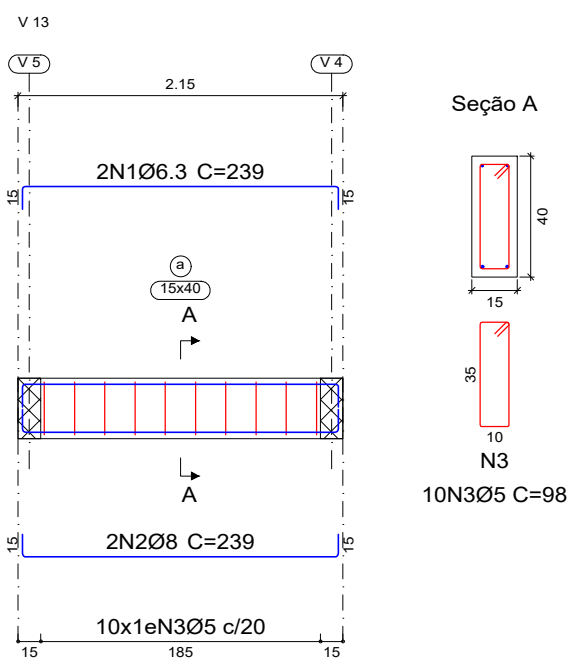
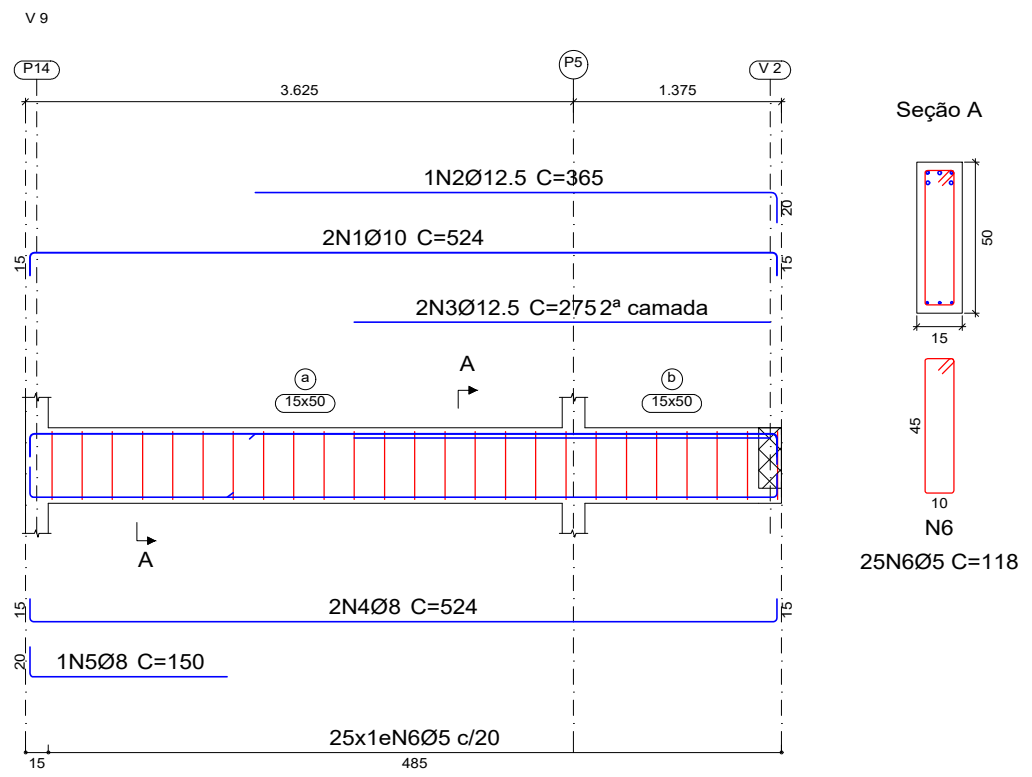
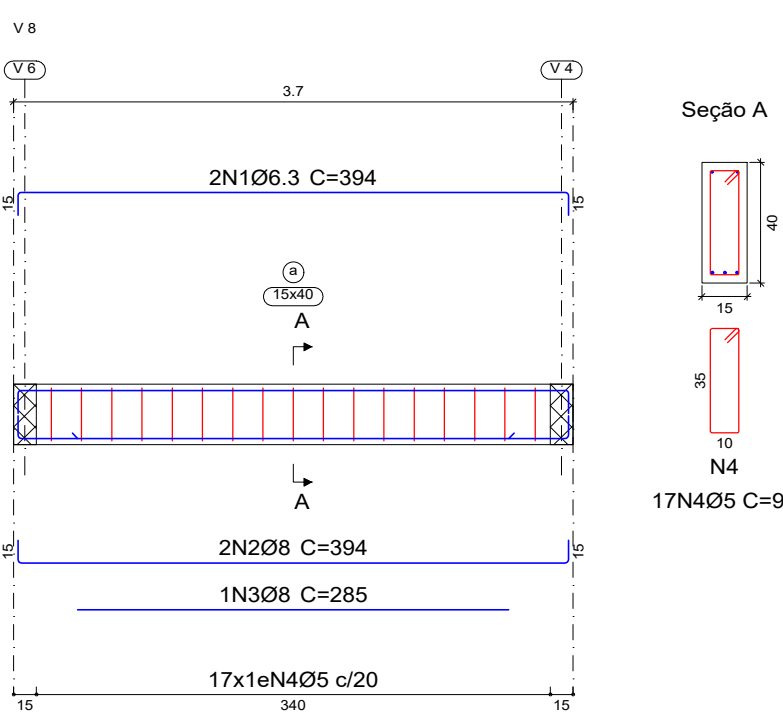


TERREO  
Desenho de vigas  
Concreto: C25, em geral  
Aço das barras: CA-50 e CA-60  
Aço dos estribos: CA-50 e CA-60  
Escala vigas 1:50  
Escala seções 1:25  
Escala aberturas 1:25

Resumo Aço	Comp. total	Peso	Total
Desenho de vigas	(m)	(kg)	
CA-50	291.1	71	
Ø6.3	383.6	151	
Ø8	92.5	57	
Ø10	35.7	34	313
Ø12.5	607.9	95	95
CA-60			
Ø5			
Total			408

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 6	1	Ø6.3	2	1179	1195	2390	5.9	
	2	Ø6.3	2	385	385	770	1.9	
	3	Ø8	1	305	305	305	1.2	
	4	Ø8	1	195	195	195	0.8	
	5	Ø10	1	260	260	260	1.6	
	6	Ø10	1	250	250	250	1.5	
	7	Ø8	4	250	250	1000	3.9	
	8	Ø10	4	145	160	640	3.9	
	9	Ø8	3	215	215	645	2.5	
	10	Ø6.3	2	1185	1200	2400	5.9	
	11	Ø8	2	544	544	1088	4.3	
	12	Ø8	2	694	909	1818	7.2	
	13	Ø12.5	1	335	335	335	3.2	
	14	Ø8	1	270	270	270	1.1	
	15	Ø8	1	300	300	300	1.2	
	16	Ø8	1	390	390	390	1.5	
	17	Ø10	1	445	445	445	2.7	
	18	Ø8	2	1179	1195	2390	9.4	
	19	Ø5	121	10	98	11858		18.6
Total:							59.7	18.6

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 8	1	Ø6.3	2	364	364	728	1.9	
	2	Ø8	2	364	394	788	3.1	
	3	Ø8	1	285	285	285	1.1	
	4	Ø5	17	10	98	1666		2.6
Total:							6.1	2.6
V 9	1	Ø10	2	494	524	1048	6.5	
	2	Ø12.5	1	345	365	365	3.5	
	3	Ø12.5	2	275	275	550	5.3	
	4	Ø8	2	494	524	1048	4.1	
	5	Ø8	1	130	150	150	0.6	
	6	Ø5	25	10	118	2950		4.6
Total:							20.0	4.6
V 10	1	Ø10	2	494	509	1018	6.3	
	2	Ø10	1	345	360	360	2.2	
	3	Ø10	3	305	320	960	5.9	
	4	Ø8	2	494	524	1048	4.1	
	5	Ø8	1	130	150	150	0.6	
	6	Ø5	25	10	118	2950		4.6
Total:							19.1	4.6
V 11	1	Ø6.3	2	364	394	788	1.9	
	2	Ø10	2	130	150	300	1.8	
	3	Ø8	2	364	394	788	3.1	
	4	Ø8	1	330	330	330	1.3	
	5	Ø8	2	275	275	550	2.2	
	6	Ø5	17	10	98	1666		2.6
Total:							10.3	2.6
V 12	1	Ø6.3	2	239	269	538	1.3	
	2	Ø8	1	80	100	100	0.4	
	3	Ø8	2	239	269	538	2.1	
	4	Ø8	1	150	150	150	0.6	
	5	Ø5	11	10	98	1078		1.7
Total:							4.4	1.7
V 13	1	Ø6.3	2	209	239	478	1.2	
	2	Ø8	2	209	239	478	1.9	
	3	Ø5	10	10	98	980		1.5
	Total:						3.1	1.5
V 14	1	Ø8	2	364	404	808	3.2	
	2	Ø10	2	300	300	600	3.7	
	3	Ø6.3	2	364	394	788	1.9	
	4	Ø5	19	10	98	1862		2.9
	Total:						8.8	2.9
V 15	1	Ø6.3	4	694	624	2496	6.1	
	2	Ø8	1	80	100	100	0.4	
	3	Ø8	1	195	195	195	0.8	
	4	Ø8	1	85	100	100	0.4	
	5	Ø8	1	330	330	330	1.3	
	6	Ø5	28	10	98	2744		4.3
Total:							9.0	4.3
V 16	1	Ø6.3	4	364	394	1576	3.9	
	2	Ø8	2	80	100	200	0.8	
	3	Ø8	1	330	330	330	1.3	
	4	Ø5	17	10	98	1666		2.6
Total:							6.0	2.6
V 18	1	Ø6.3	2	494	524	1048	2.6	
	2	Ø10	1	330	355	355	2.2	
	3	Ø10	3	270	290	870	5.4	
	4	Ø8	1	85	100	100	0.4	
	5	Ø8	2	494	524	1048	4.1	
	6	Ø8	1	195	210	210	0.8	
	7	Ø5	25	10	98	2450		3.8
Total:							15.5	3.8
V 17	1	Ø6.3	2	239	269	538	1.3	
	2	Ø8	1	80	100	100	0.4	
	3	Ø8	2	239	269	538	2.1	
	4	Ø8	1	150	150	150	0.6	
	5	Ø5	11	10	98	1078		1.7
Total:							4.4	1.7
V 7	1	Ø6.3	2	494	524	1048	2.6	
	2	Ø8	1	330	355	355	1.4	
	3	Ø8	3	250	250	750	3.0	
	4	Ø8	2	494	524	1048	4.1	
	5	Ø8	1	195	215	215	0.8	
	6	Ø5	20	10	118	2360		3.7
Total:							11.9	3.7
Ø5:							0.0	55.2
Ø6.3:							38.4	0.0
Ø8:							84.2	0.0
Ø10:							43.7	0.0
Ø12.5:							12.0	0.0
Total:							178.3	55.2



Juiz de Fora  
Secretaria de Obras - SO



REVISÕES				PROJETO ESTRUTURAL EM CONCRETO ARMADO			
REV	POR	DATA	DESCRIÇÃO	MUSEU MARIANO PROCÓPIO - VESTIÁRIO FUNCIONÁRIOS			
00	C.M.	02/01/2023	EMISSIONAL INICIAL	ENDEREÇO: RUA MARIANO PROCÓPIO, 1100, BAIRRO MARIANO PROCÓPIO, JUIZ DE FORA - MG			
				DETALHAMENTO DE VIGAS BALDRAMES			
				AUTOR:	AUTOR:	AUTOR:	
				ARQ. VIVIANE CATTEN MORENO CAU/ES: A158072-8	ENG. CARLOS RENATO PRÓCOLI CREA/ES: 031715-D	ENG. CLAYTON MONTANARO CREA/ES: 047798/D	

DESENHO: CLAYTON MONTANARO  
ESCALA: INDICADA  
DATA: 02/01/2023  
CÓDIGO: EST-FUNC-MS-JF-4  
PRANCHETA:  
**04/10**  
RVS: 02/01/2023  
AUTOR: CLAYTON MONTANARO  
www.claytonmontanaro.com.br  
MONTANARO

DE ACORDO COM A LEGISLAÇÃO VIGENTE, CABE AO AUTOR DO PROJETO QUALQUER ALTERAÇÃO, BEM COMO OS DIREITOS AUTORAIS SOBRE O MESMO.  
TODAS AS MEDIDAS DEVERÃO SER CONFERIDAS NO LOCAL.