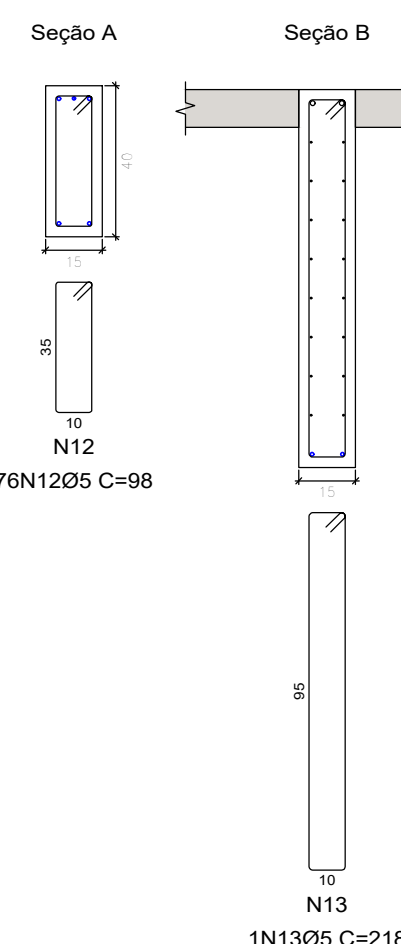
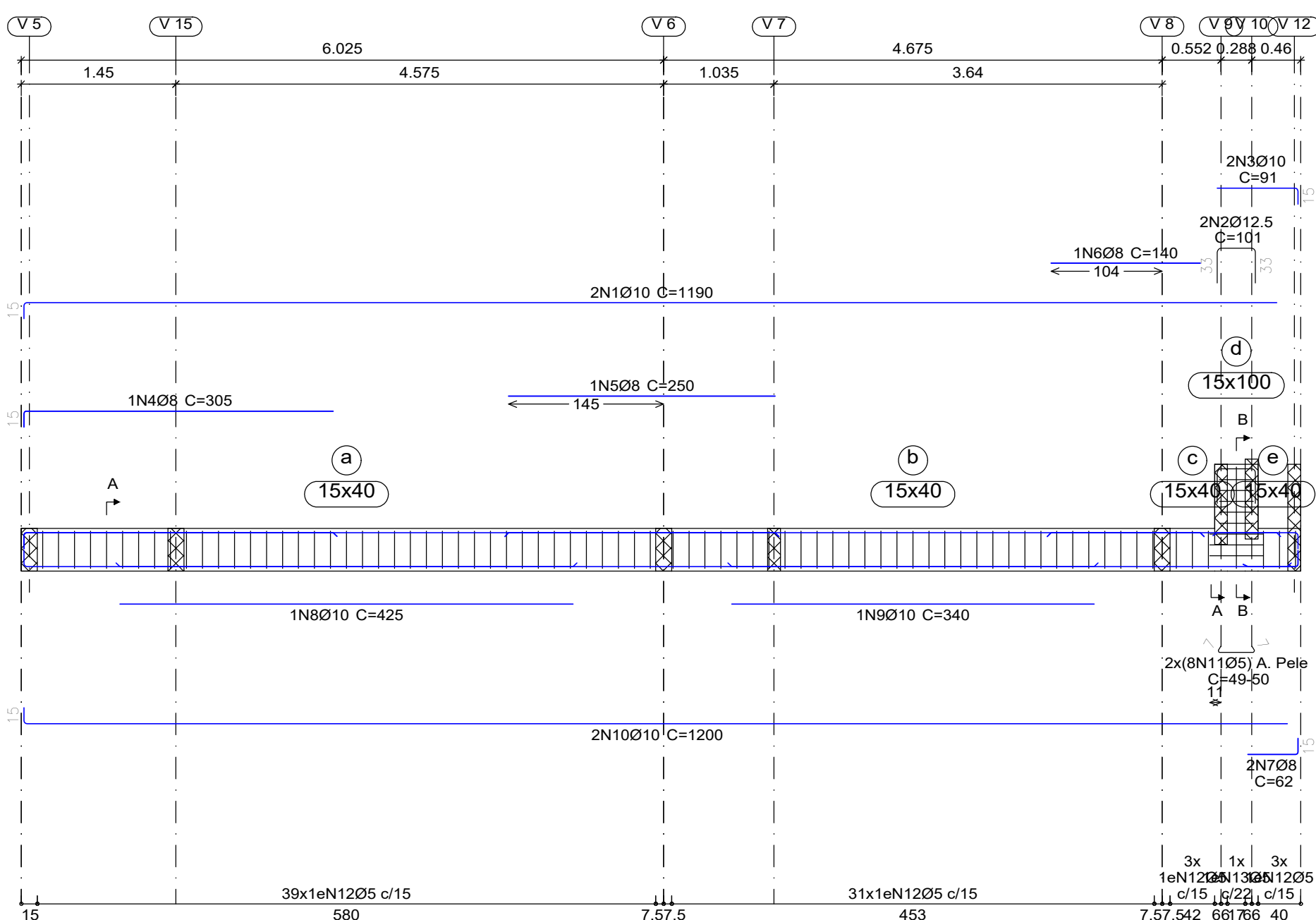
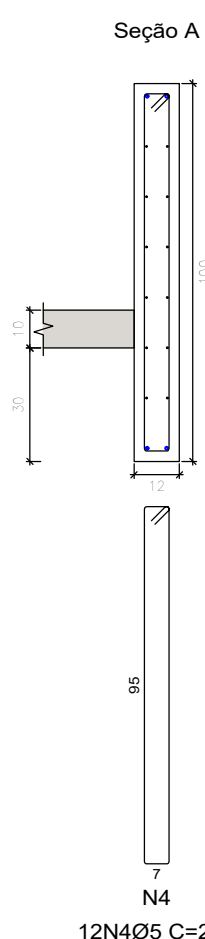
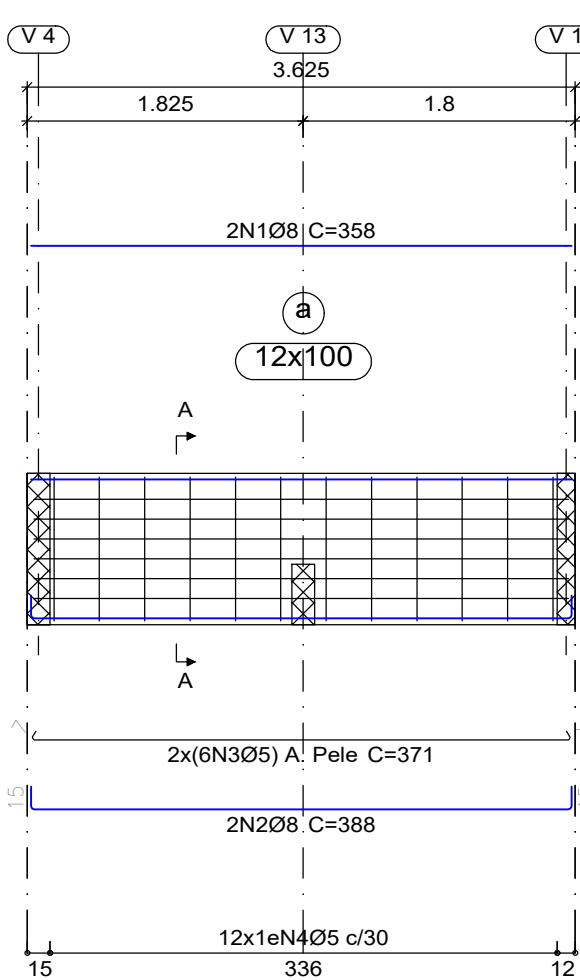
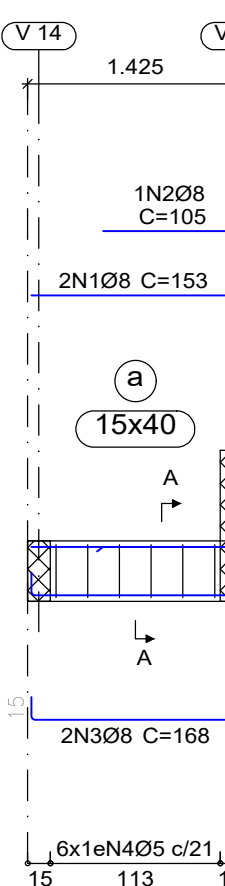
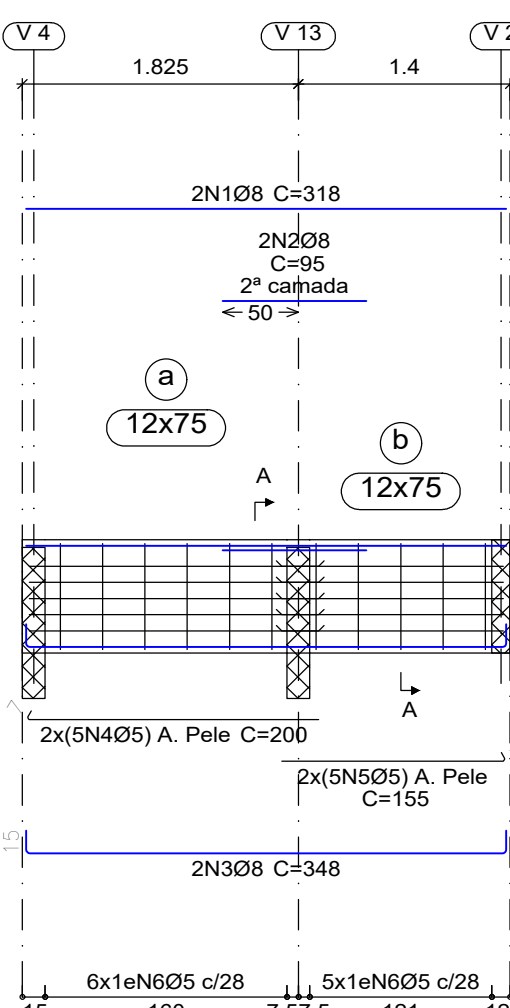
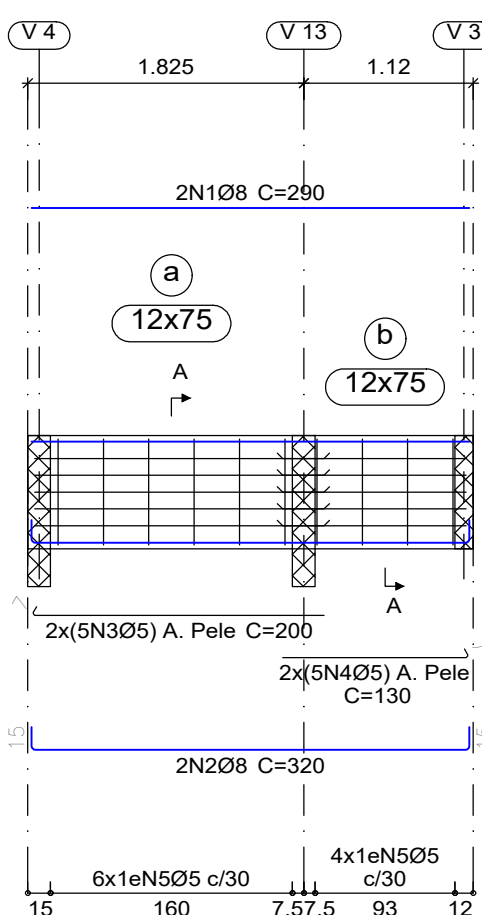
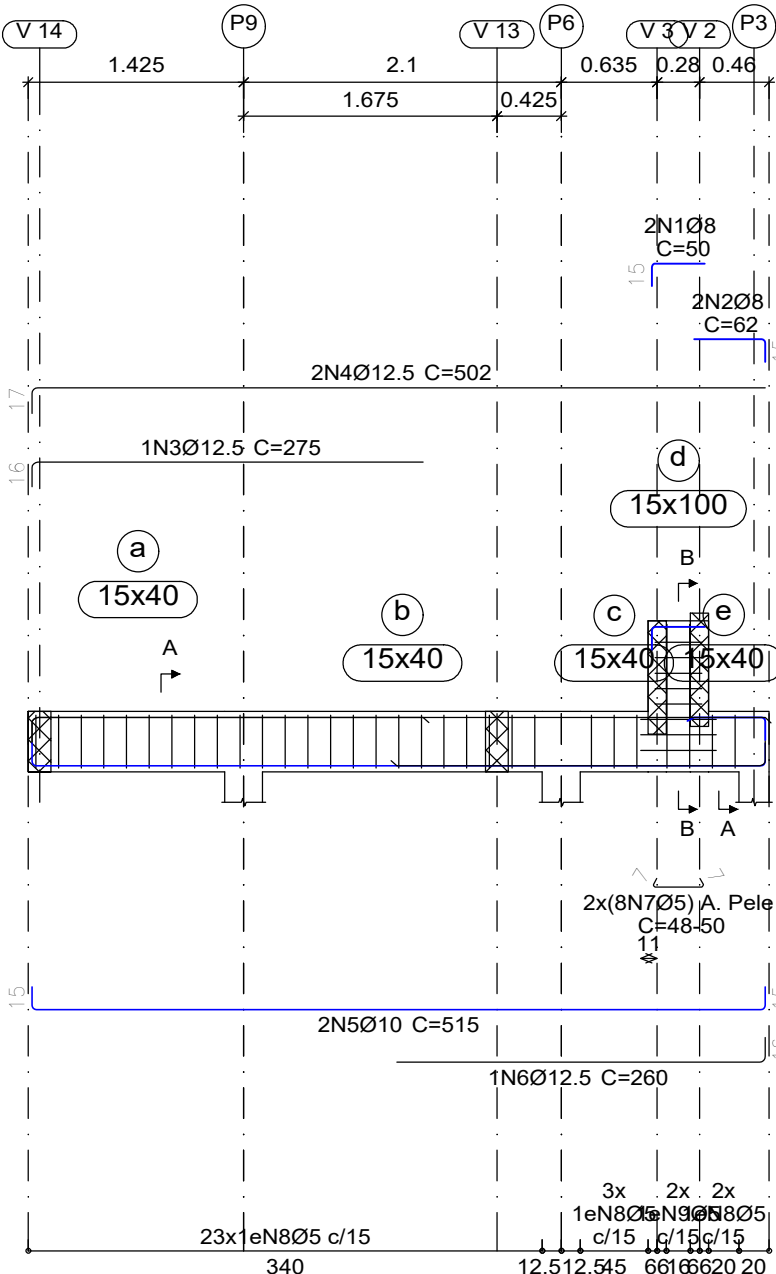


DETALHAMENTO VIGAS (4x)



	Elemento	Pos.	Diam.	Q.	Dob. (cm)	Ret. (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 8	1	08	2	15	35			50	100	0.4	
	2	08	2		47	15		62	124	0.5	
	3	012.5	1	16.3	258.8			275	275	2.6	
	4	012.5	2	17	485			502	1004	9.7	
	5	010	2	15	88			515	1030	6.3	
	6	012.5	1	243.8	16.3			260	260	2.5	
	7	05	16	6.5	VAR.		6.5	VAR.	768		1.2
	8	05	28	5	88		5	98	2744		4.3
	9	05	2	5	208		5	218	436		0.7
									Total+10%:	24.2	6.8
V 9	1	08	2	15	289.5			290	580	2.3	
	2	08	2	15	289.5			320	640	2.5	
	3	05	10	6.5	150			200	400		3.1
	4	05	10	6.5	130			1300	1300		2.0
	5	05	10	5	152		5	162	1620		2.5
								Total+10%:	5.3	8.4	
V 10	1	08	2		317.5			318	636	2.5	
	2	08	2		95			95	190	0.8	
	3	08	2	15	317.5			348	696		
	4	05	10	6.5	193.5			2000	2000		3.1
	5	05	10	6.5	148.5		6.5	155	1550		2.4
6	05	11	5	152		5	162	1782		2.8	
								Total+10%:	6.6	9.1	
V 11	1	08	2		137.5	15	153	306	1.2		
	2	08	1		90	15	105	105	0.4		
	3	08	2	15	137.5	15	168	336	1.3		
	4	05	6	5	88	5	98	588			0.9
								Total+10%:	3.2	1.0	
V 12	1	08	2		357.5			358	716	2.8	
	2	08	2	15	357.5	15	388	776	3.1		
	3	05	12	6.5	357.5	6.5	371	4452			7.0
	4	05	12	5	202	5	212	2544			4.0
								Total+10%:	6.5	12.1	
V 13	1	010	2	15	1175			1190	2380	14.7	
	2	012.5	2	32.6	35.8	32.6		101	202	1.9	
	3	010	2		75.8	15		91	182	1.1	
	4	08	1	15	290			305	305	1.2	
	5	08	1	15	250			250	250	1.0	
	6	08	1	140	140			140	140	0.6	
	7	08	2		47			47	124	0.5	
	8	010	1		425			425	425	2.6	
	9	010	1		340			340	340	2.1	
	10	010	2	15	1185			1200	2400	14.8	
	11	05	16	6.5	VAR.		6.5	VAR.	784		1.2
	12	05	76	5	88		5	98	7448		11.7
	13	05	1	5	208		5	218	218		0.3
								Total+10%:	44.6	14.5	
V 14	1	010	2		625			625	1250	7.7	
	2	010	2		625			640	1280	7.9	
	3	010	1		220			220	220	1.4	
	4	010	1		225			225	225	1.4	
	5	010	1		210			210	210	1.3	
	6	010	2	15	640			655	1310	8.1	
	7	010	2	15	630			645	1290	7.9	
	8	010	1		430			425	425	2.6	
	9	010	1		430			430	430	2.6	
	10	05	79	5	88	5	98	7742			12.2
								Total+10%:	45.0	13.4	
V 15	1	012.5	1	16.3	258.8			275	275	2.6	
	2	012.5	2	17	485	16.3		518	1036	10.0	
	3	010	2	15	485	15		515	1030	6.3	
	4	08	1		120			120	120	0.5	
	5	05	30	5	88	5		98	2940		4.6
								Total+10%:	21.3	5.1	
								05:	0.0	70.4	
								08:	26.8	0.0	
								010:	97.6	0.0	
								012.5:	32.3	0.0	
								Total:	156.7	70.4	

- 1- POSICIONAR SAPATAS SOBRE CONCRETO MAGRO DE 5cm DE ESPESURA;
- 2- A EXECUÇÃO DO ESCORAMENTO DEVE RESPEITAR A NBR 15696
- 3- RETIRAR ESCORAMENTO APÓS 28 DIAS DA CONCRETAGEM
- 4 - QUALQUER MODIFICAÇÃO OU DÚVIDA NO PROJETO DEVERÁ SER IMEDIATAMENTE INFORMADA AO PROJETISTA ESTRUTURAL

PROJETO ESTRUTURAL

LAJE E ESCADA: 2,5cm
PILAR: 4,5cm
PILAR (CONTATO COM O SOLO): 4.5cm

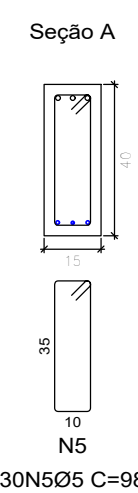
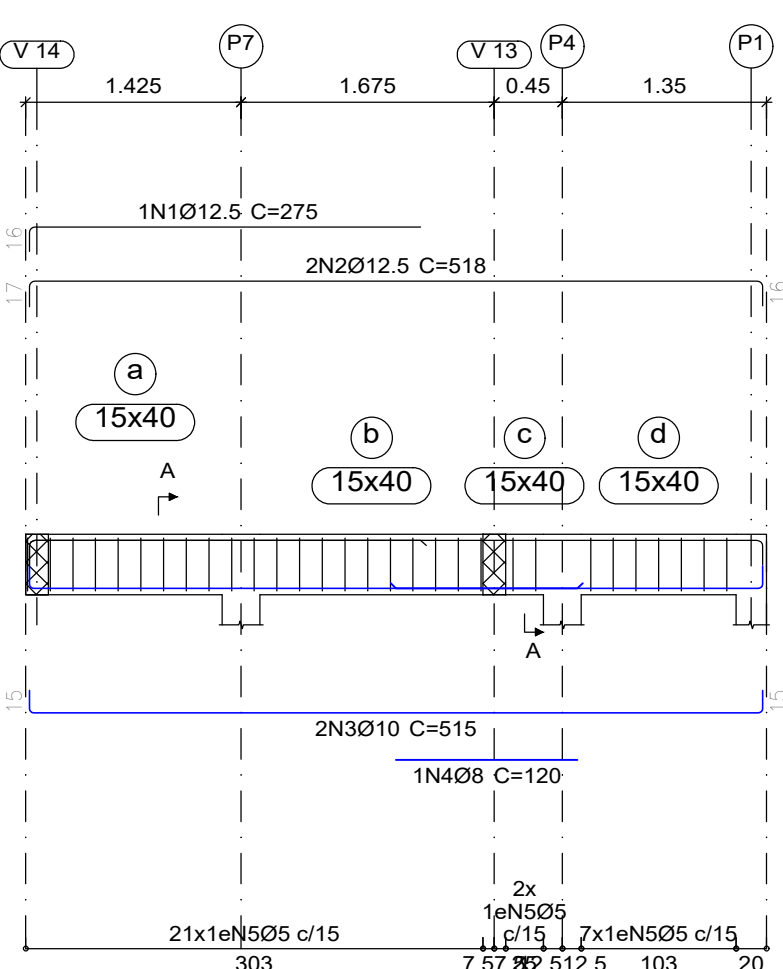
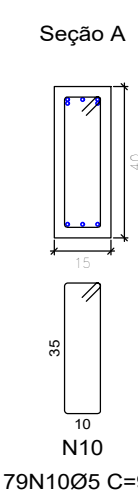
SAPATA: 5cm
VIGA: 2,5cm

CONCRETO
fck = 40 MPa
AÇO: CA-50 E CA-60

LEGENDA

SAPATA

Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes a top view with dimensions (1.45, 6.025, 4.575, 4.675, 1.3) and reinforcement bar specifications (1N3Ø10 C=220, 2N1Ø10 C=625, 1N4Ø10 C=225, 2N2Ø10 C=640, 1N5Ø10 C=210, 2N6Ø10 C=655, 1N8Ø10 C=425, 2N7Ø10 C=645, 1N9Ø10 C=430). It also shows a side view with reinforcement bars (39x1eN1005 c/15, 40x1eN1005 c/15) and a section line A-A. The drawing is labeled 'V.5', 'V.6', 'V.8', and 'V.1'.



Resumo Aço	Comp. total	Peso+10%	Total
Desenho de vigas	(m)	(kg)	
CA-50 Ø8	122.8	53	
Ø10	310.1	210	
Ø12.5	49.0	52	315
CA-60 Ø5	895.3	155	155
Total			470

Piso 1
Desenho de vigas
Concreto: Fck 40 MPa .
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:20
Escala aberturas 1:20

		Fernando		
Revisão	Descrição	Desenho	Aprov.	Data

DEQUE

PROJETO ESTRUTURAL

Eng. Rodrigo Barchinski da Silva
CREA/SC - 162.294-4

Executivo

Data :

24/02/2025

03/0