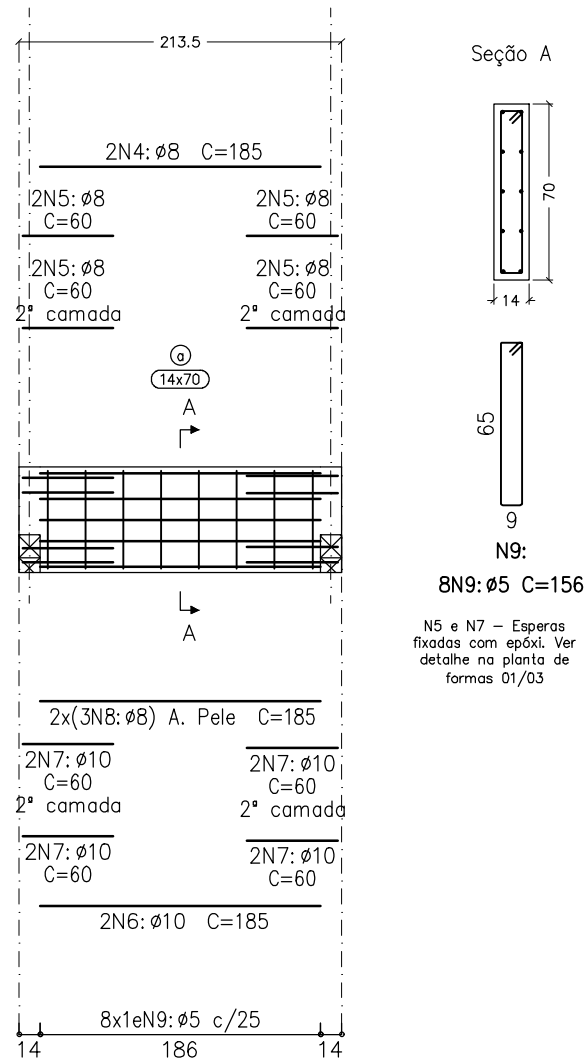
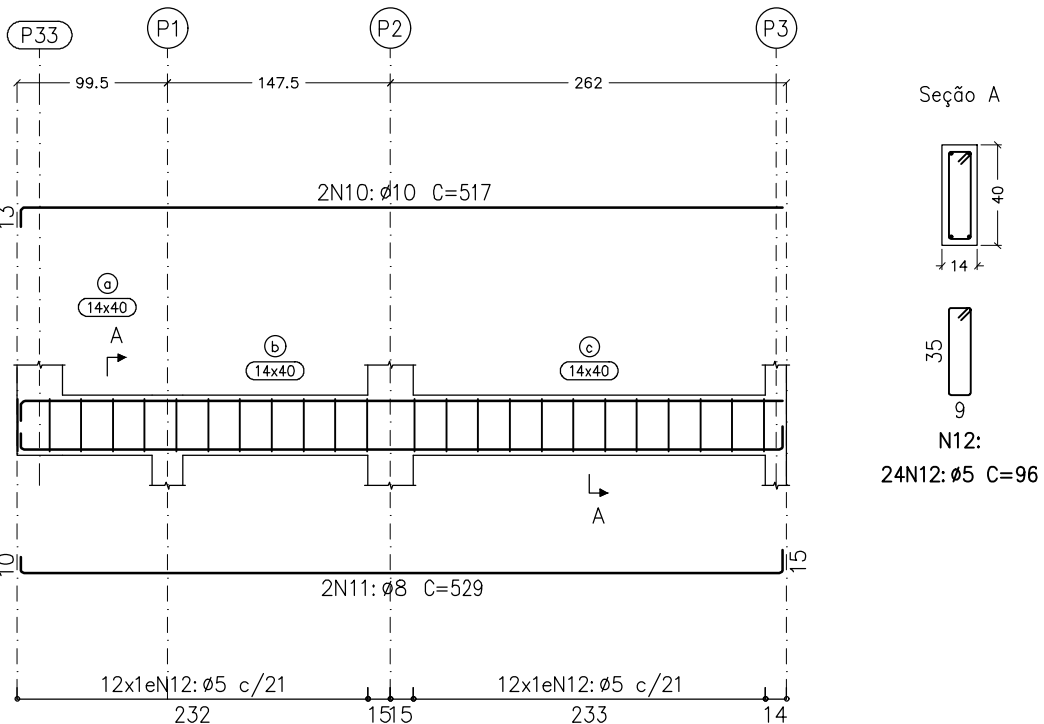


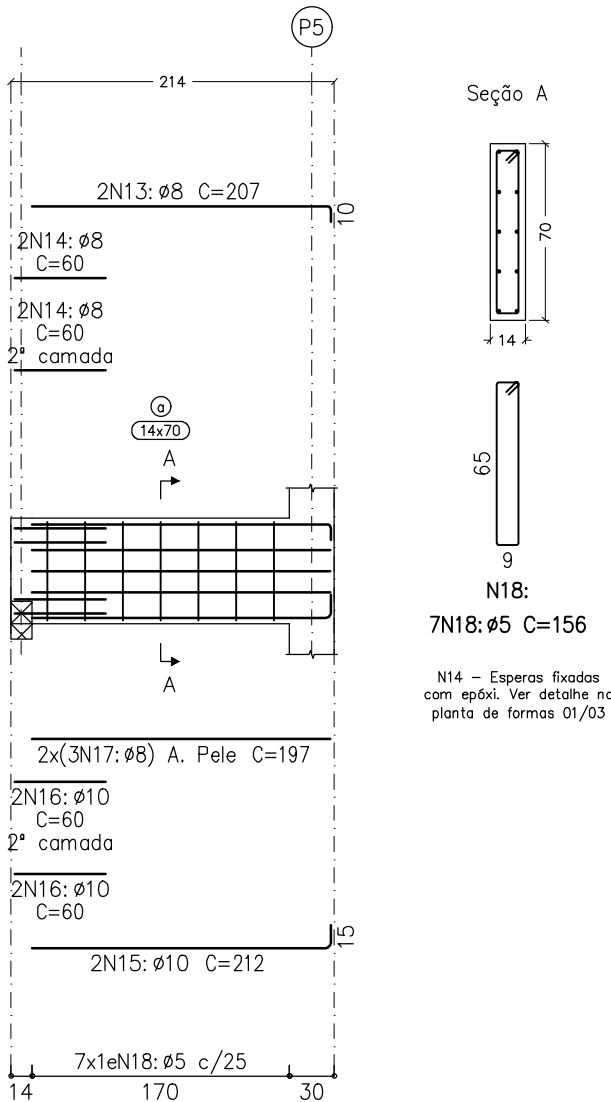
V 1
Escala vigas 1:50
Escala seções 1:30



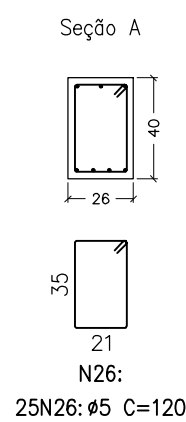
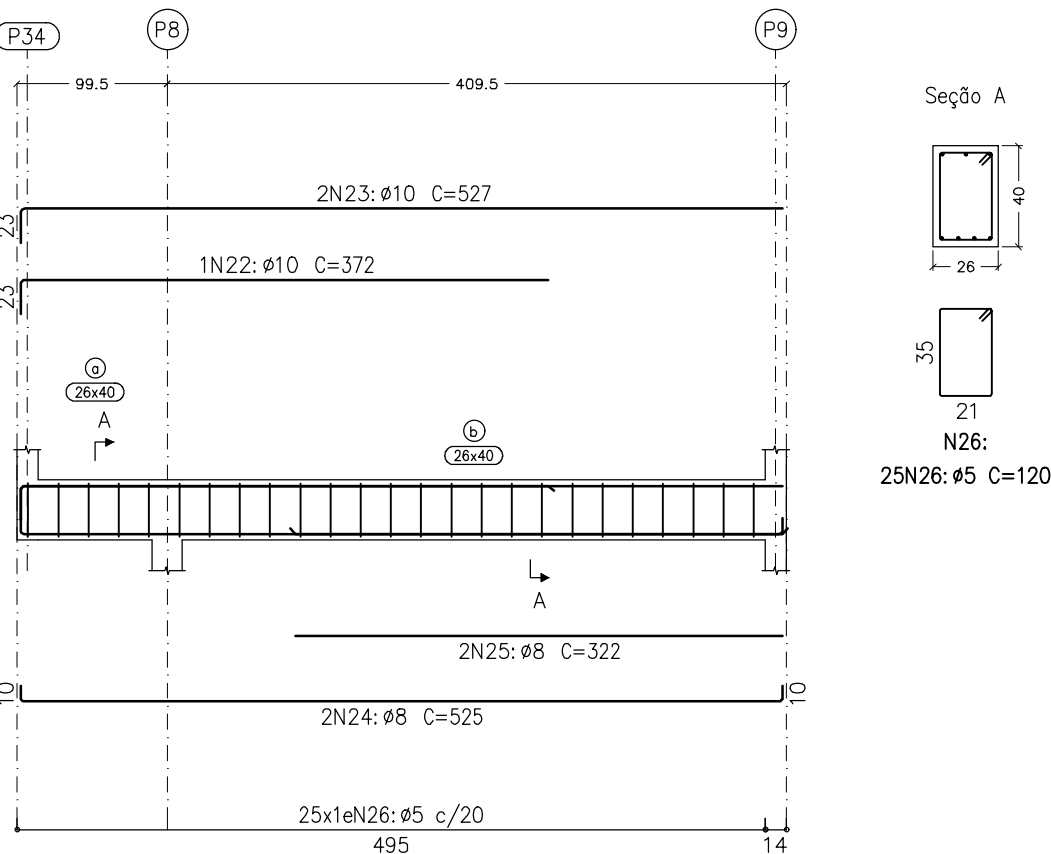
V 2
Escala vigas 1:50
Escala seções 1:30
Ver esperas no detalhamento de pilares ou vista de muros



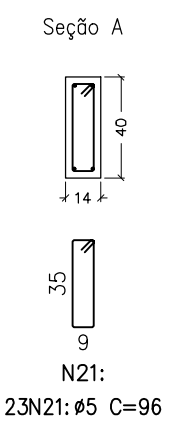
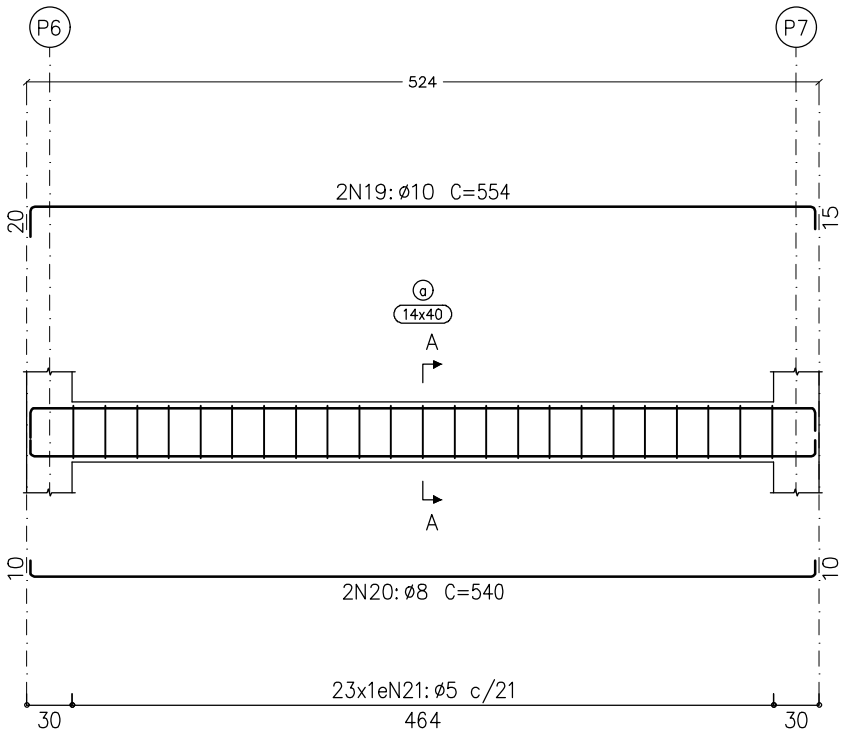
V 3
Escala vigas 1:50
Escala seções 1:30



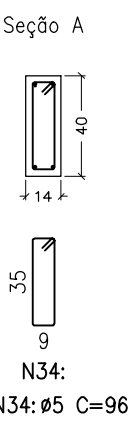
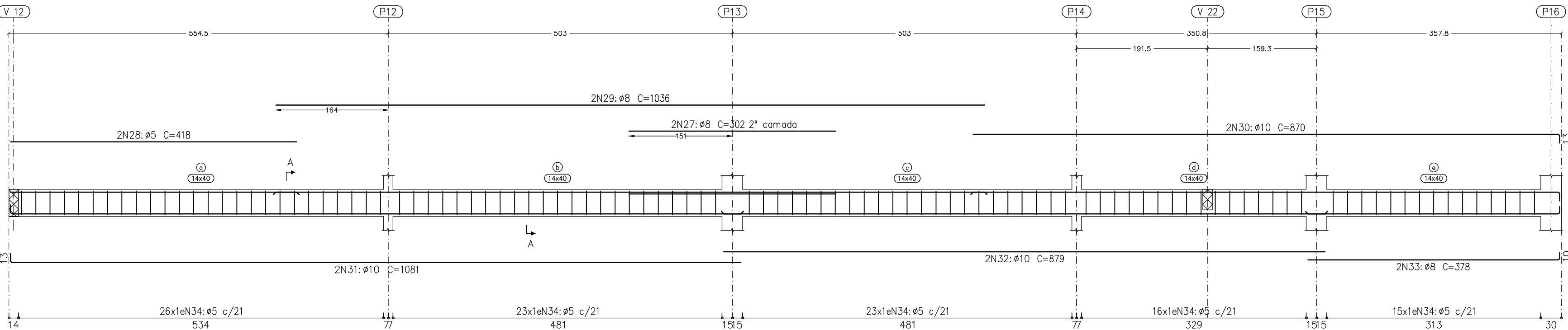
V 5
Escala vigas 1:50
Escala seções 1:30
Ver esperas no detalhamento de pilares ou vista de muros



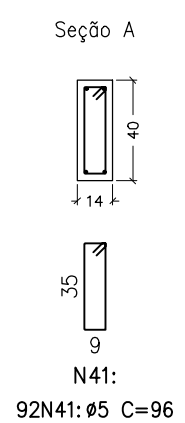
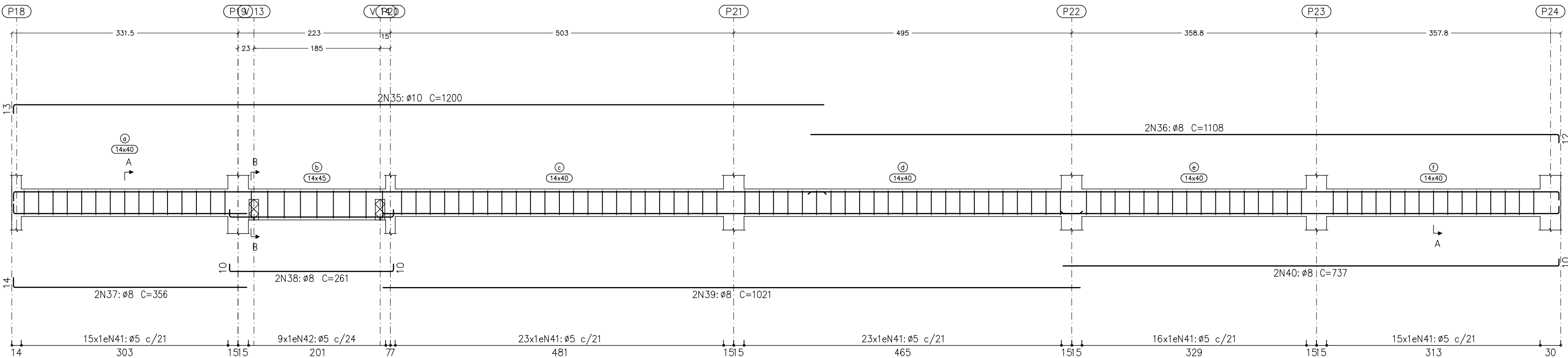
V 4
Escala vigas 1:50
Escala seções 1:30



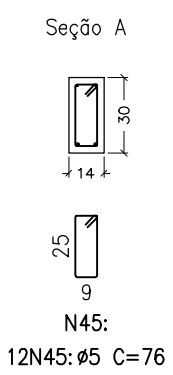
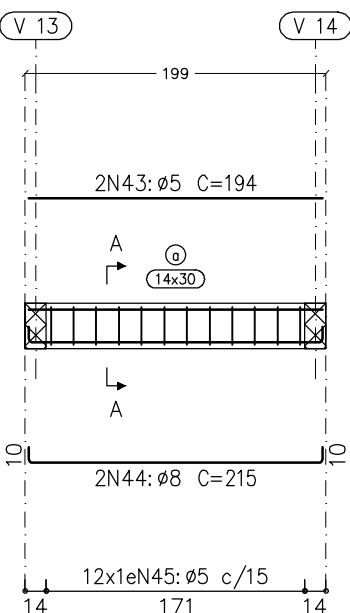
V 6
Escala vigas 1:50
Escala seções 1:30



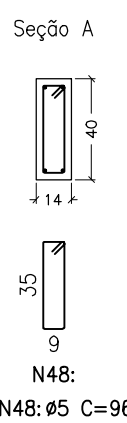
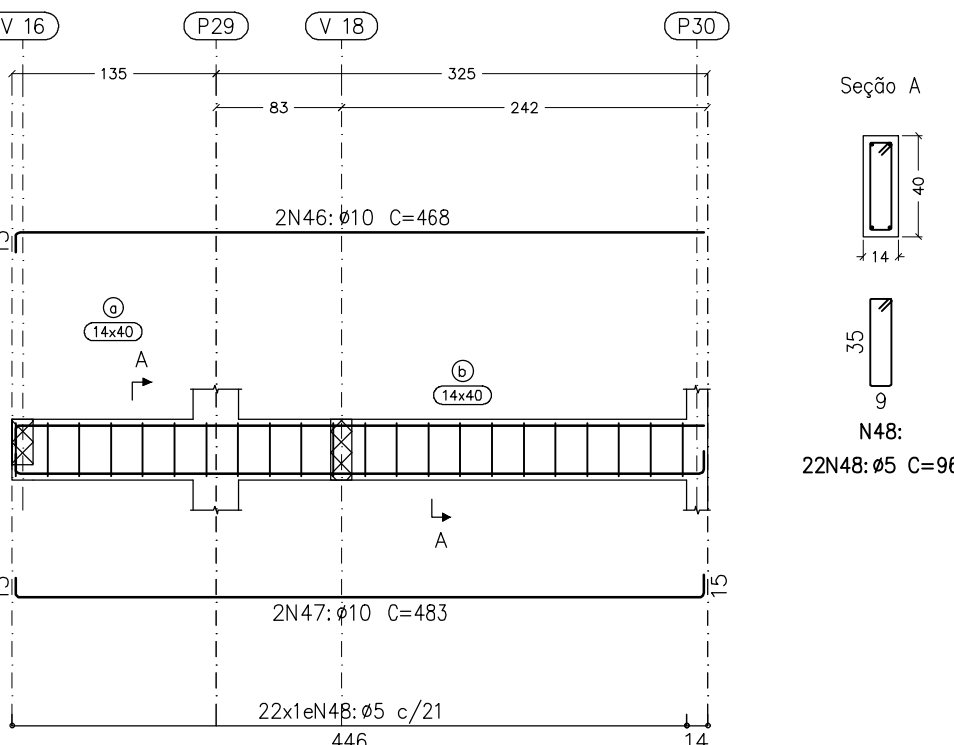
V 7
Escala vigas 1:50
Escala seções 1:30



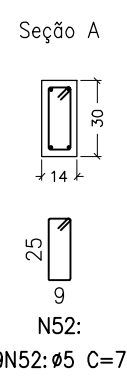
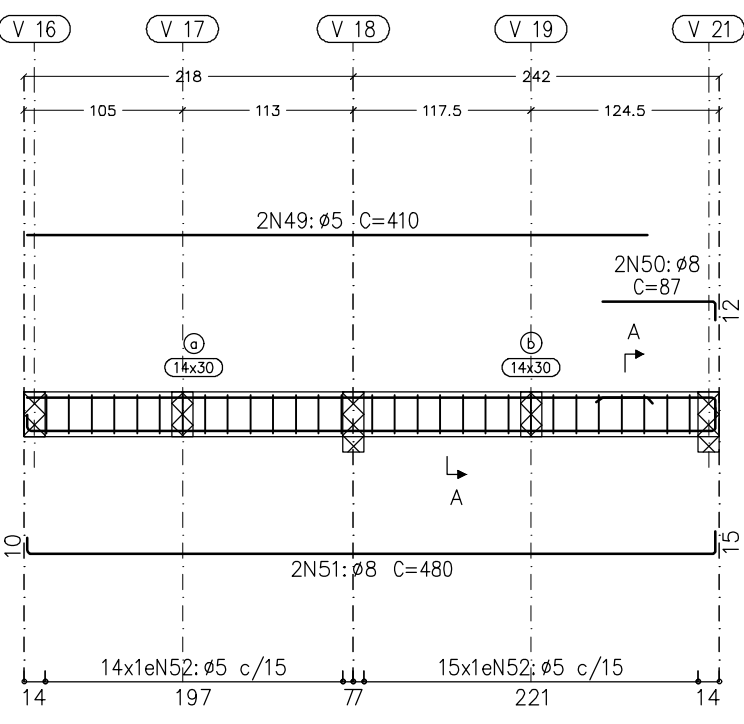
V 8
Escala vigas 1:50
Escala seções 1:30



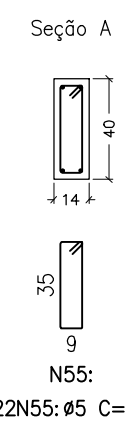
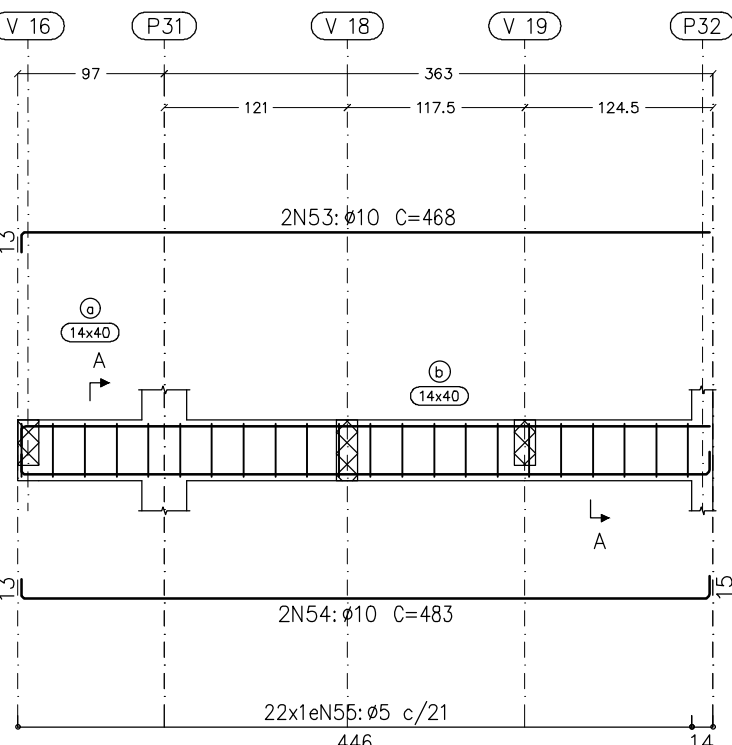
V 9
Escala vigas 1:50
Escala seções 1:30



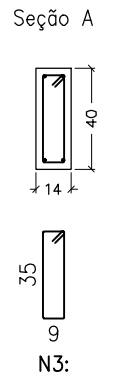
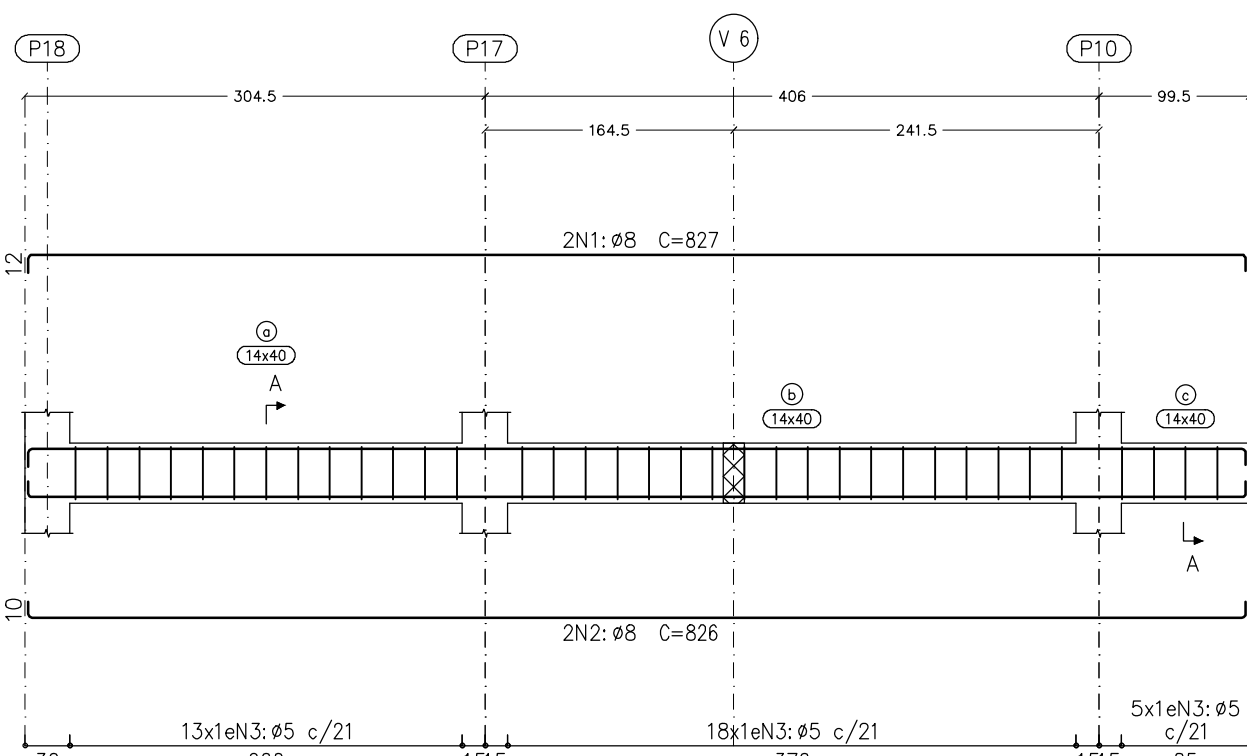
V 10
Escala vigas 1:50
Escala seções 1:30



V 11
Escala vigas 1:50
Escala seções 1:30



V 12
Escala vigas 1:50
Escala seções 1:30



Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 12	1	ø8	2	827	1654	6.5	
	2	ø8	2	826	1652	6.5	
	3	ø5	36	96	3456		5.4
	Total+10%						14.3

Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 1	4	ø8	2	191	382	1.5	
	5	ø8	8	60	480	1.9	
	6	ø10	2	191	382	2.4	
	7	ø10	8	60	480	3.0	
V 2	10	ø10	2	517	1034	6.4	
	11	ø8	2	529	1058	4.2	
	12	ø5	24	96	2304		3.6
	Total+10%						11.7
V 3	13	ø8	2	210	420	1.7	
	14	ø8	4	60	240	0.9	
	15	ø10	2	215	430	2.6	
	16	ø10	4	60	240	1.5	
V 4	19	ø10	2	554	1108	6.8	
	20	ø8	2	540	1080	4.3	
	21	ø5	23	96	2208		3.5
	Total+10%						12.2
V 5	22	ø10	1	372	372	2.3	
	23	ø10	2	527	1054	6.5	
	24	ø8	2	525	1050	4.1	
	25	ø8	2	322	644	2.5	
V 6	27	ø8	2	302	604	2.4	
	28	ø5	2	418	836		1.3
	29	ø8	2	1036	2072	8.2	
	30	ø10	2	870	1740	10.7	
V 7	35	ø10	2	1200	2400	14.8	
	36	ø8	2	1108	2216	8.7	
	37	ø8	2	356	712	2.8	
	38	ø8	2	261	522	2.1	
V 8	39	ø8	2	1021	2042	8.1	
	40	ø8	2	737	1474	5.8	
	41	ø5	92	96	8832		13.9
	42	ø5	9	106	954		1.5
V 9	43	ø5	2	194	388		0.6
	44	ø8	2	215	430		1.7
	45	ø5	12	76	912		1.4
	Total+10%						46.5
V 10	46	ø10	2	468	936	5.8	
	47	ø10	2	483	966	6.0	
	48	ø5	22	96	2112		3.3
	Total+10%						13.0
V 11	49	ø5	2	410	820		1.3
	50	ø8	2	87	174		0.7
	51	ø8	2	480	960	3.8	
	52	ø5	29	76	2204		3.5
V 12	53	ø10	2	468	936	5.8	
	54	ø10	2	483	966	6.0	
	55	ø5	22	96	2112		3.3
	Total+10%						13.0
						ø5:	0.0
						ø8:	102.0
						ø10:	115.2
						Total:	217.2

Resumo Aço	Comp. total	Peso+10%	Total
CA-50	ø6.3	37.5	10
CA-50	ø8	433.0	188
	ø10	237.1	161
	ø12.5	7.8	8
CA-60	ø5	766.3	132
Total			499

Térreo
Desenho de vigas
Concreto: C20, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:30
Escala aberturas 1:20

Concreto 20MPa

REVISÕES				
NÚMERO	DATA	DESCRIÇÃO	DESENHO	VERIF.

PROJETO ESTRUTURAL



EQUIPE TÉCNICA:
Eng.º Civil Celso Zanoni Filho
CREA/SC 061.511-0
Eng.º Civil Jéssica Tartari da Silva
CREA/SC 147.347-0
Eng.º Eletricista Eduardo Marcelo da Silva
CREA/SC 107.393-8
Eng.º Mecânico Fábio Domingos Guimarães
CREA/SC 075.436-1

Eng.º Civil Celso Zanoni Filho

PREFEITURA MUNICIPAL DE ANGELINA
CNPJ: 82.951.195/0001-10
Escola Municipal de Barra Clara
Barra Clara
Angelina/SC

Vigas da térreo - 01/02		ESCALA	INDIC.
CAD	C.Z.F		
ÁREA	441,21m²	DATA	Fev/2024
GBA	943	PRANCHAS	VI 01 / 04