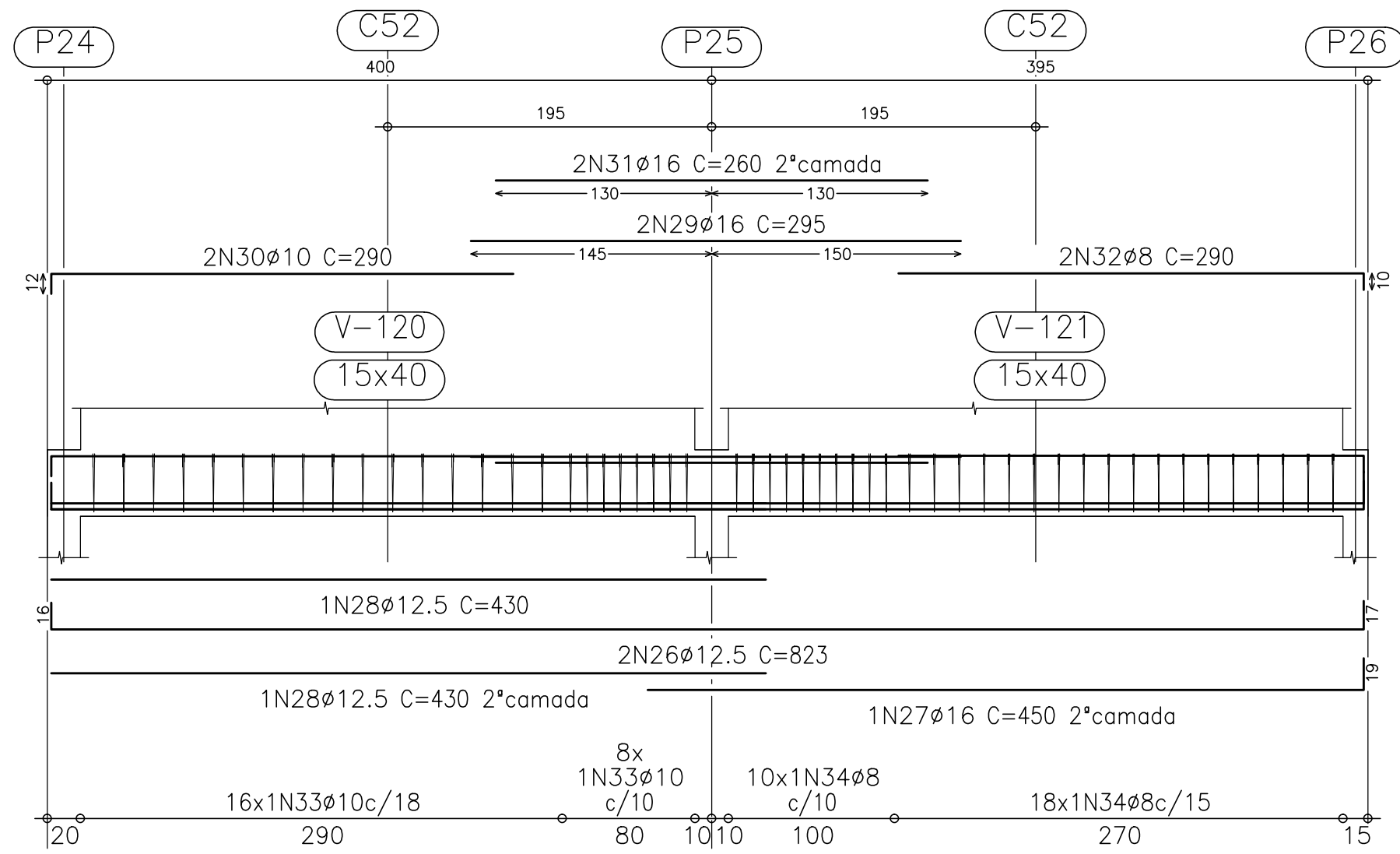
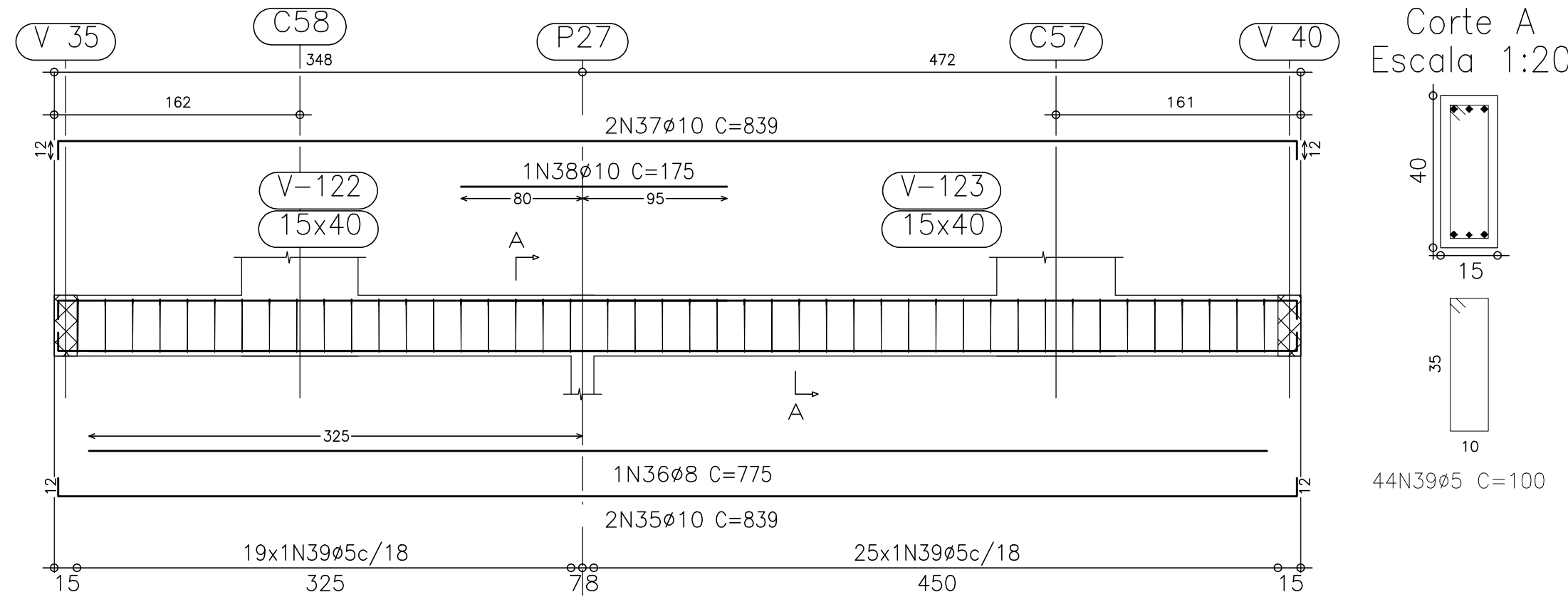


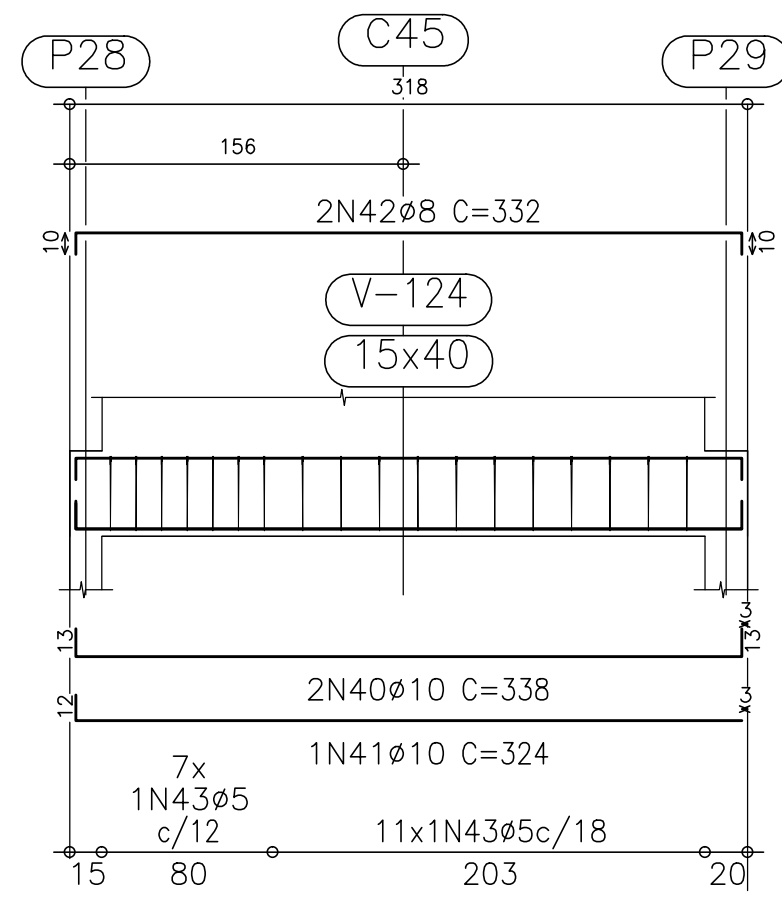
V 11
Escala 1:50



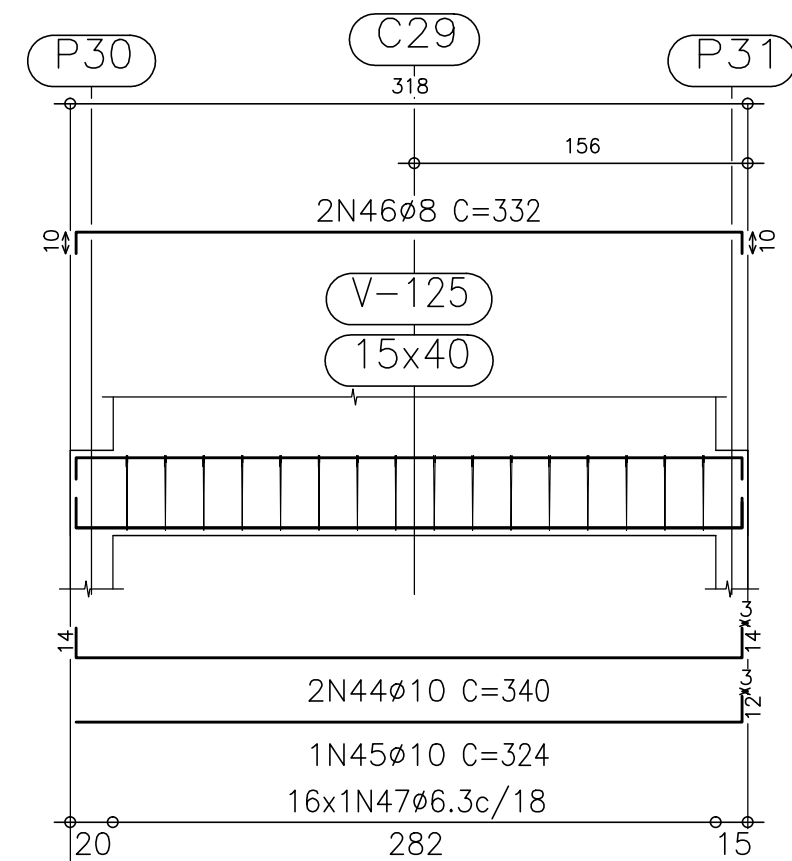
V 12
Escala 1:50



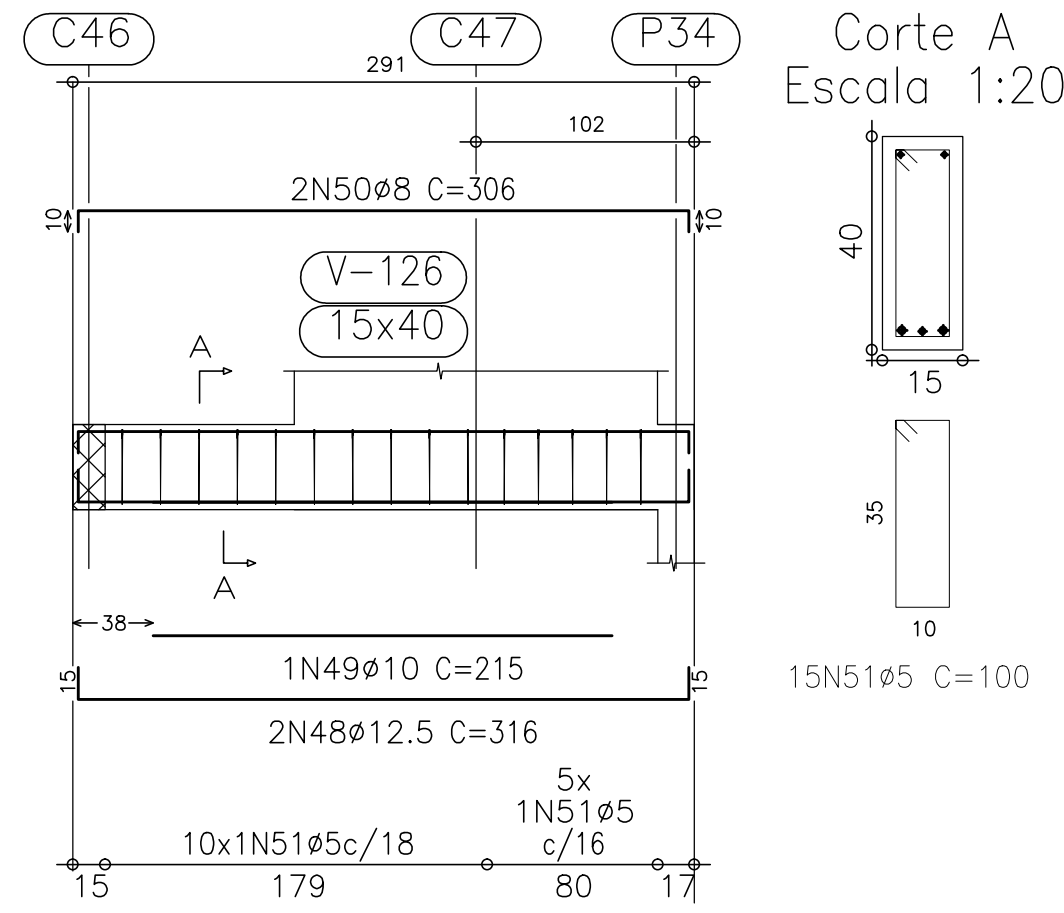
V 13
Escala 1:50



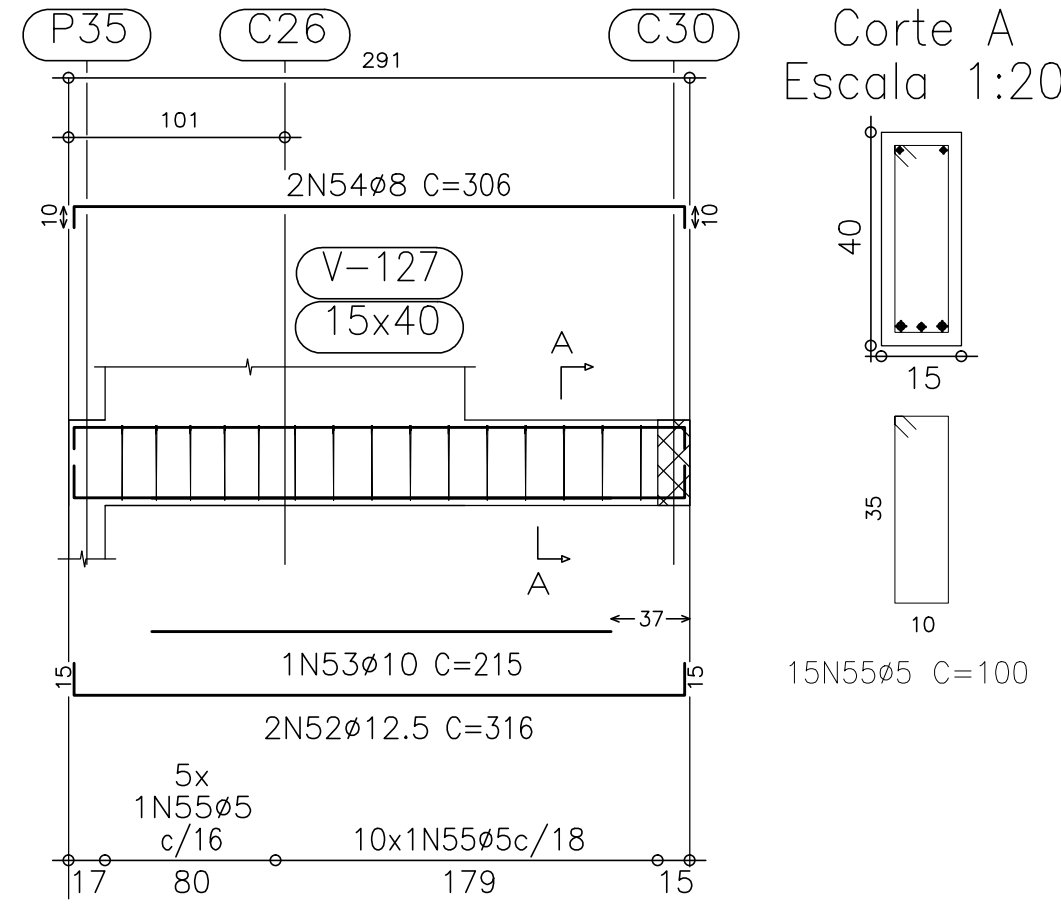
V 14
Escala 1:50



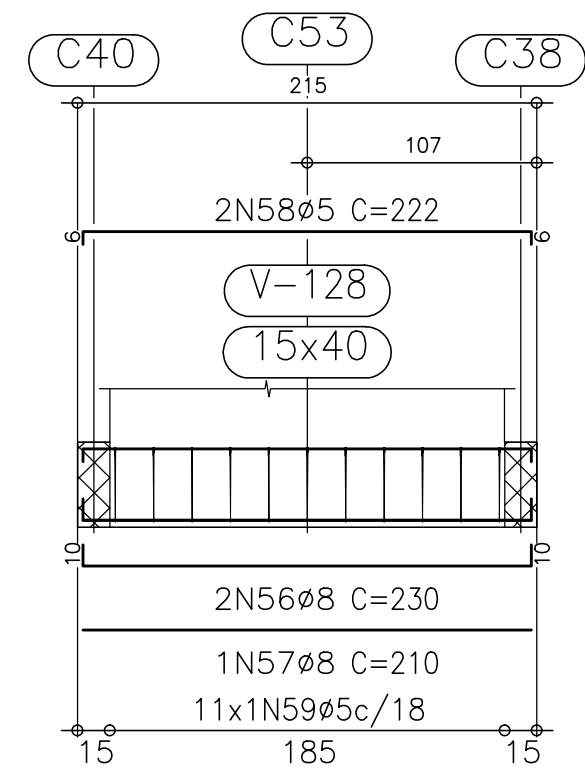
V 15
Escala 1:50



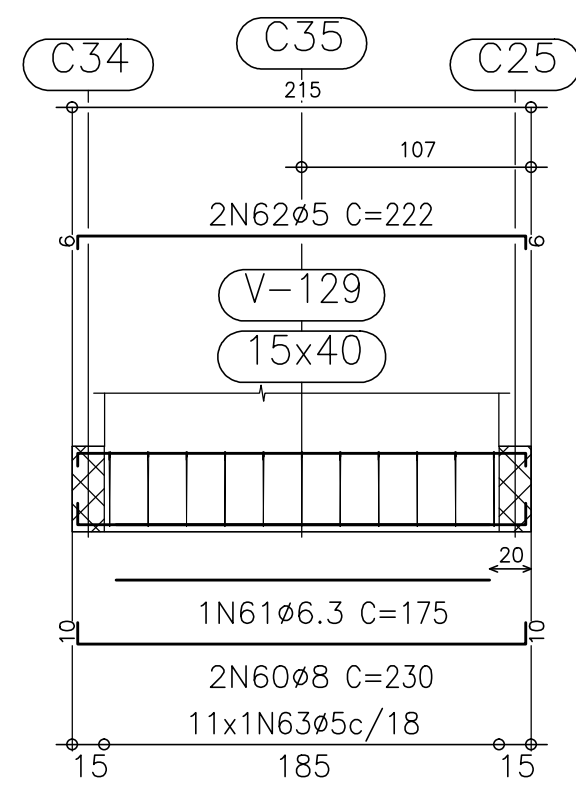
V 16
Escala 1:50



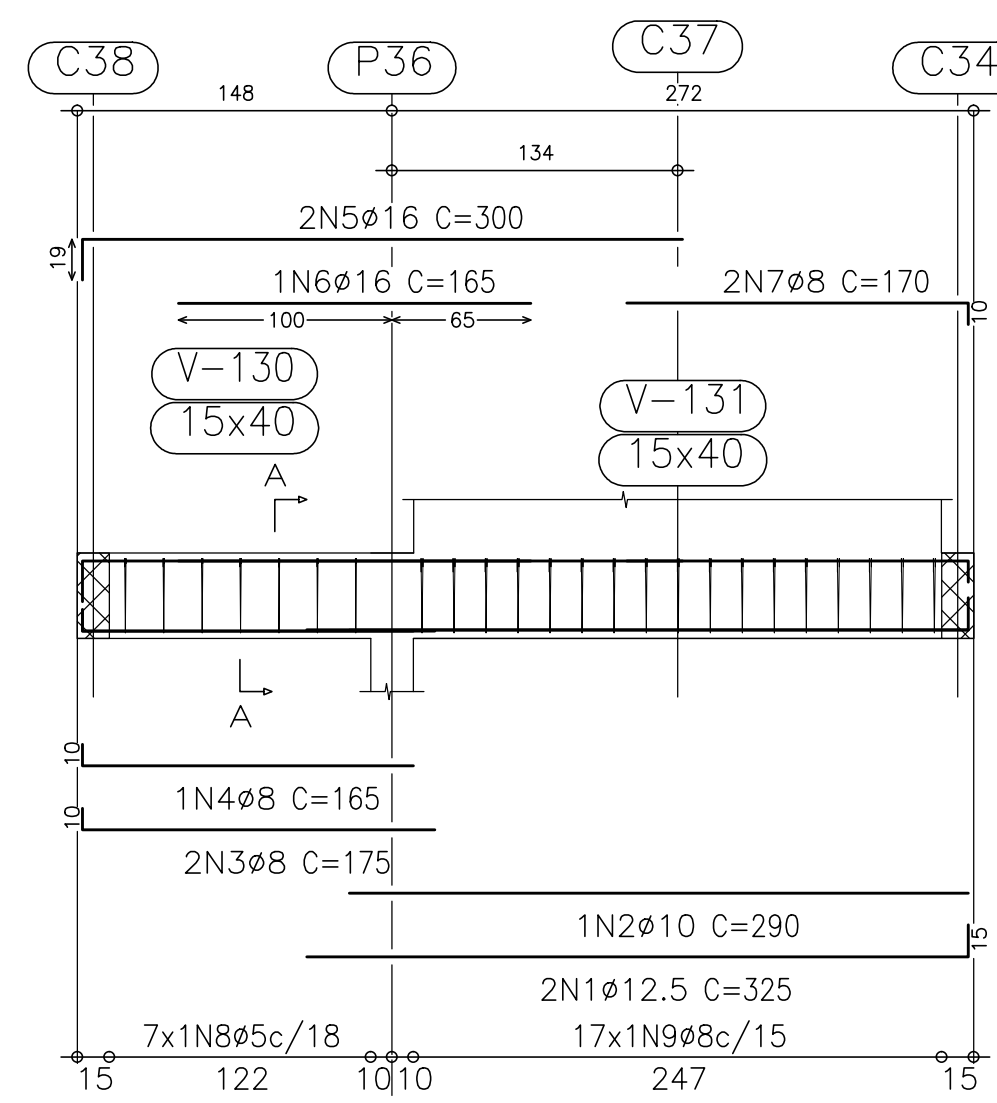
V 17
Escala 1:50



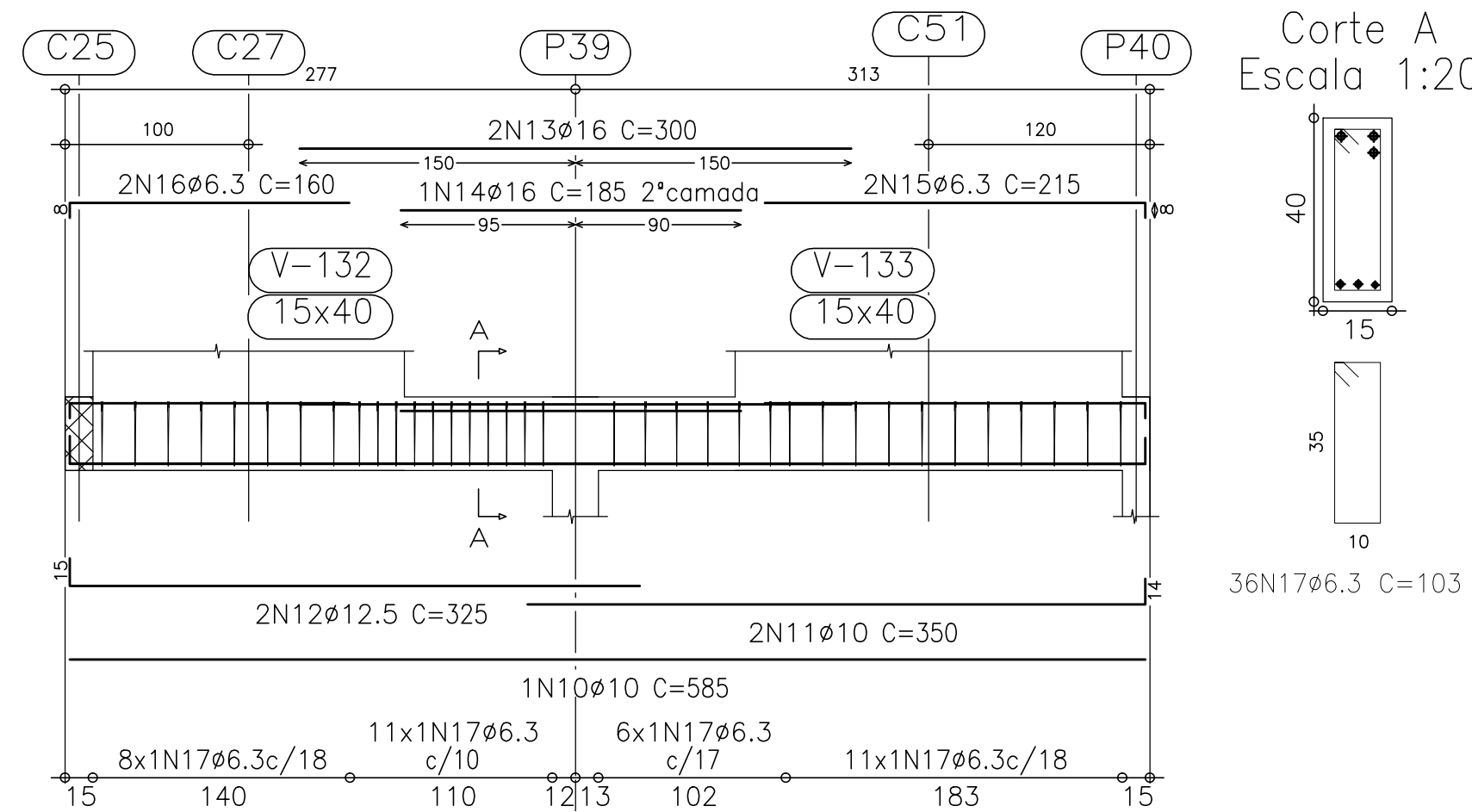
V 18
Escala 1:50



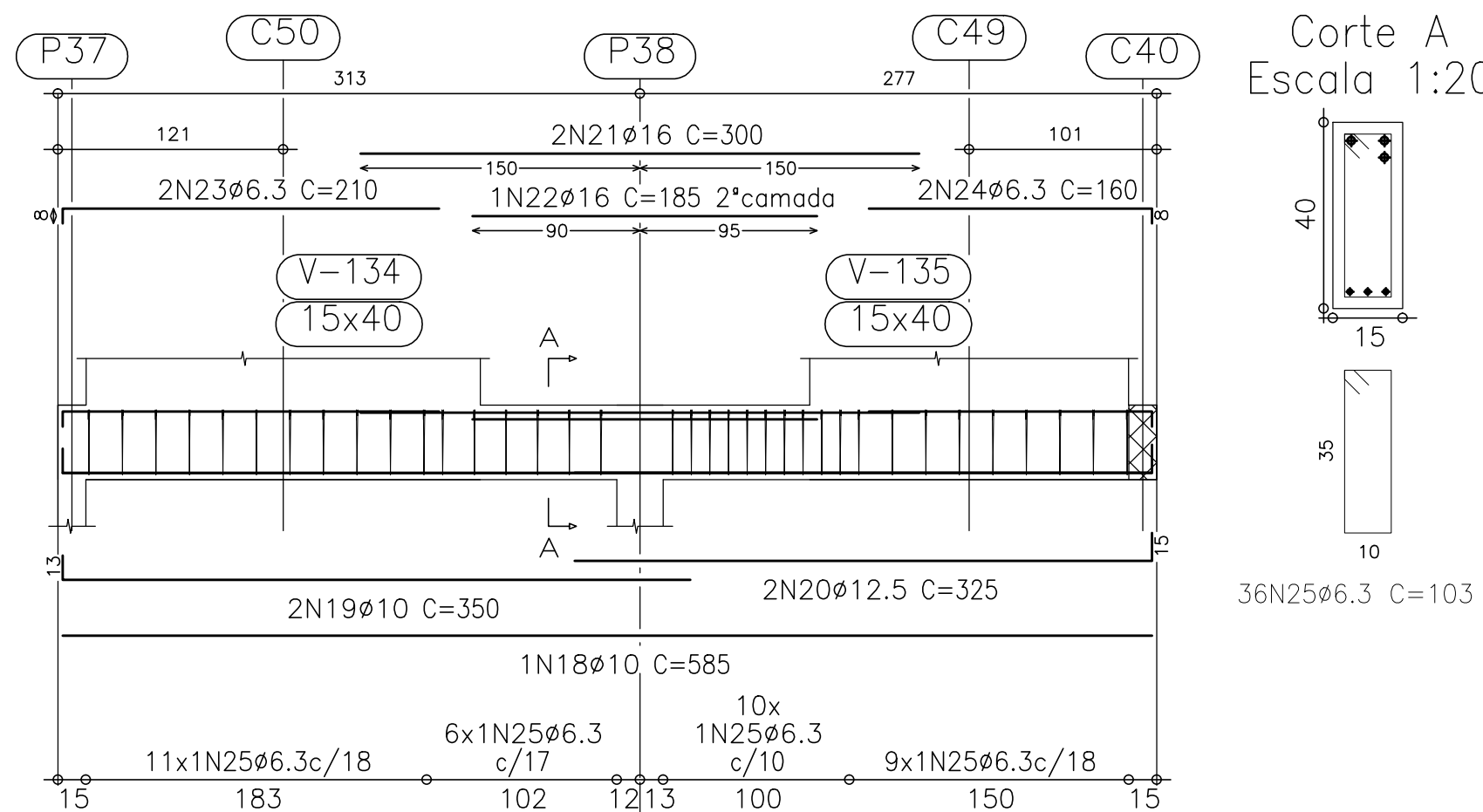
V 19
Escala 1:50



V 20
Escala 1:50



V 21
Escala 1:50



TERREO
Desenho de vigas
Concreto: C25, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20
Nota: A disposição de blocos que se desenha
corresponde à primeira fiada, exceto se o muro
termina no piso, cujo caso corresponde à última
fiada do piso inferior.

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	ø12.5	2		310	15	325	650	6.4	
	2	ø10	1		290		290	290	1.8	
	3	ø8	2	10	165		175	350	1.4	
	4	ø8	1	10	155		165	165	0.6	
	5	ø16	2	19	281		300	600	9.4	
	6	ø16	1		165		165	165	2.6	
	7	ø8	2		160	10	170	340	1.3	
	8	ø5	7				100	700		1.1
	9	ø8	17				106	1802	7.1	
Total+10%:									33.7	1.2

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 11	26	ø12.5	2	16	790	17	823	1646	16.2	
	27	ø16	1		431	19	450	450	7.1	
	28	ø12.5	2		430		430	860	8.4	
	29	ø16	2		295		295	590	9.3	
	30	ø10	2	12	278		290	580	3.6	
	31	ø16	2		260		260	520	8.2	
	32	ø8	2		280	10	290	580	2.3	
	33	ø10	24				110	2640	16.6	
	34	ø8	28				106	2968	11.6	
Total+10%:									91.6	
V 12	35	ø10	2	12	815	12	839	1678	10.5	
	36	ø8	1		775		775	775	3.0	
	37	ø10	2	12	815	12	839	1678	10.5	
	38	ø10	1		175		175	175	1.1	
	39	ø5	44				100	4400		6.9
Total+10%:									27.6	7.6
V 13	40	ø10	2	13	312	13	338	676	4.2	
	41	ø10	1	12	312		324	324	2.0	
	42	ø8	2	10	312	10	332	664	2.6	
	43	ø5	18				100	1800		2.8
Total+10%:									9.7	3.1
V 14	44	ø10	2	14	312	14	340	680	4.3	
	45	ø10	1		312	12	324	324	2.0	
	46	ø8	2	10	312	10	332	664	2.6	
	47	ø6.3	16				103	1648	4.1	
Total+10%:									14.3	
V 15	48	ø12.5	2	15	286	15	316	632	6.2	
	49	ø10	1		215		215	215	1.4	
	50	ø8	2	10	286	10	306	612	2.4	
	51	ø5	15				100	1500		2.4
Total+10%:									11.0	2.6
V 16	52	ø12.5	2	15	286	15	316	632	6.2	
	53	ø10	1		215		215	215	1.4	
	54	ø8	2	10	286	10	306	612	2.4	
	55	ø5	15				100	1500		2.4
Total+10%:									11.0	2.6
V 17	56	ø8	2	10	210	10	230	460	1.8	
	57	ø8	1		210		210	210	0.8	
	58	ø5	2	6	210	6	222	444		0.7
	59	ø5	11				100	1100		1.7
Total+10%:									2.9	2.6
V 18	60	ø8	2	10	210	10	230	460	1.8	
	61	ø6.3	1		175		175	175	0.4	
	62	ø5	2	6	210	6	222	444		0.7
	63	ø5	11				100	1100		1.7
Total+10%:									2.4	2.6
									ø5:	0.0
									ø6.3:	29.2
									ø8:	46.0
									ø10:	83.2
									ø12.5:	61.9
									ø16:	67.2
									Total:	287.5
										22.3

Concreto $F_{ck} = 25\text{Mpa}$

CABREIRA RODRIGUES
Equipe Técnica
Engº. Civil Cristian Vitorini Fernandes
Engº. Civil Fabrício Ferreira Rodrigues
Engº. Civil Diego Augusto De Cesaro
Eng. Civil / Eletrotéc. Fábio Ferreira
Acad. Eng. Civil Amanda Bianchini

SOLUÇÕES EM ENGENHARIA

PROJETO

ESTRUTURAL

RESPONSÁVEL PELO PROJETO

Engº. Civil Fabrício Ferreira Rodrigues
CREA/SC 41413-0

RESPONSÁVEL PELA EXECUÇÃO

OBRA / PROPRIETÁRIO

Vivendas De Barcelona
Rua Salvador e Rua Xingu, Bairro Brasília
Criciúma - Santa Catarina

ASSUNTO:

VIGAS BALDRAME

ARQUIVO

C:\CR\CR\BARCELONA\ESTR.

FOLHA

06/35

DATA

JAN/13

OBRA

008/CR1

ÁREA

7.846,24m²

ESCALA

1/50

DESENHO

Diego Augusto