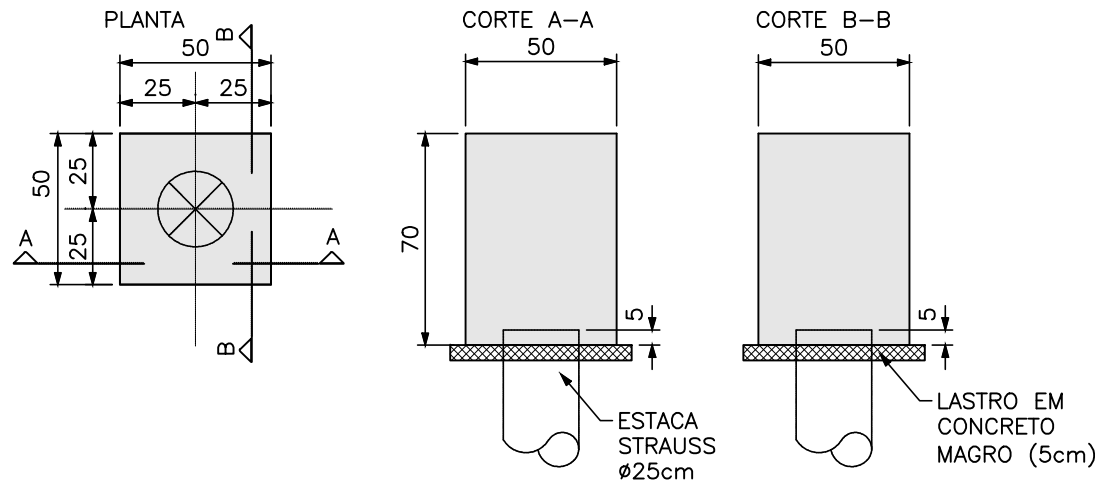


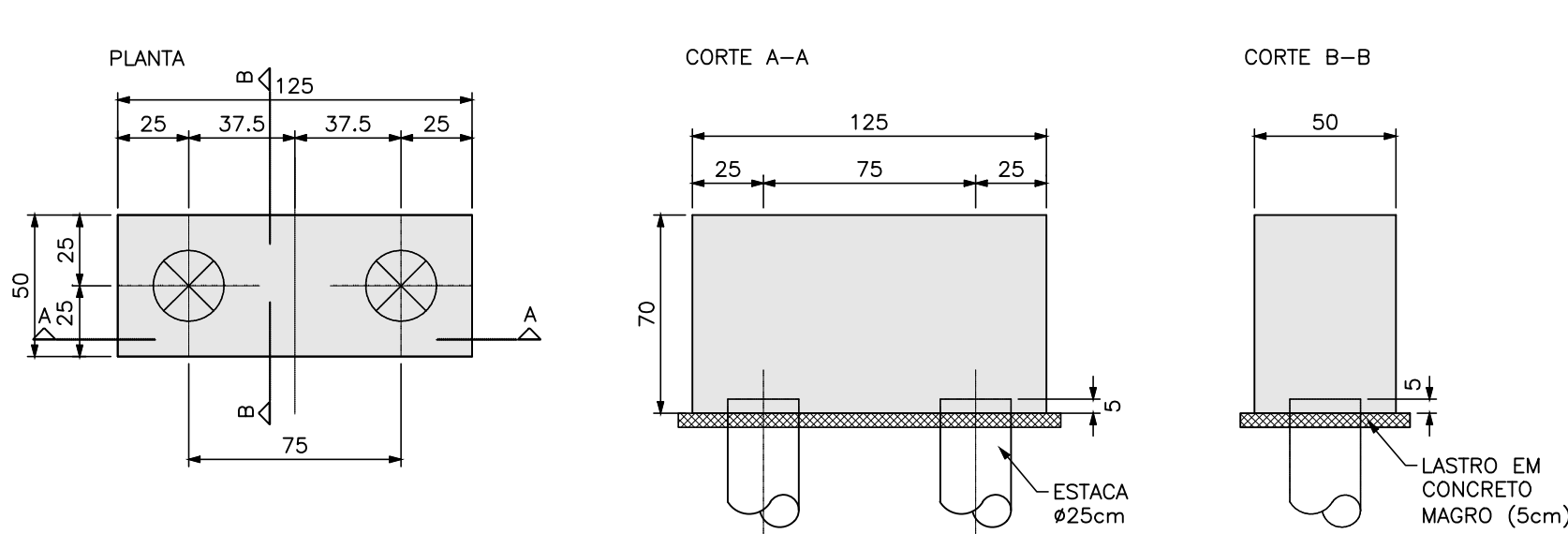
ARM. DO BLOCO B1 (28x)

ESC. 1:25



FORMA DO BLOCO B2 (48x)

ESC. 1:25



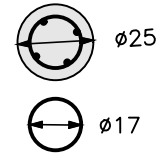
ARM. DAS ESTACAS
HÉLICE CONTINUA Ø250mm (208x)

ESC. 1:25

CAPACIDADE DAS ESTACAS: 250kN

NOTA: O TIPO E AS ESPECIFICAÇÕES DA FUNDAÇÃO DEVERÃO SER VERIFICADOS APÓS A EXECUÇÃO DE SONDAGENS

CORTE
Esc.: 1:12,5

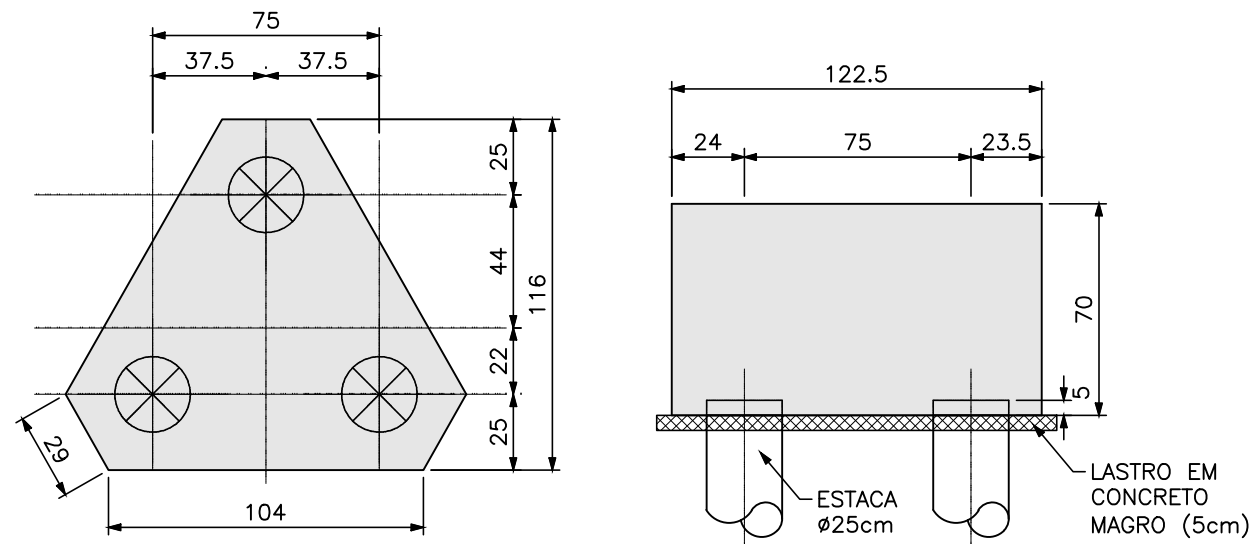


1 N2 Ø6.3 c=2565
ESTRIBO HELICOIDAL
PASSO 20cm

TABELA DE FERROS							
TIPO	POS.	BIT.		QUANT.	Q.Tot.	C.Ult. (cm)	C.T. (cm)
ARM. MICROESTACAS Ø250mm (208X)							
CA-50A	1	12.5	4	832	950	7904.00	
CA-50A	2	6.3	1	208	2565	5335.20	
RESUMO DO AÇO							
PESO CA-50A Ø6.3				5335.20 m	1333.80kg		
PESO CA-50A Ø12.5				7904.00 m	7904.00kg		
PESO TOTAL CA-50A					9237.80kg		
				PESO TOTAL = 9237.80kg			
CONCRETO fck 25MPa							

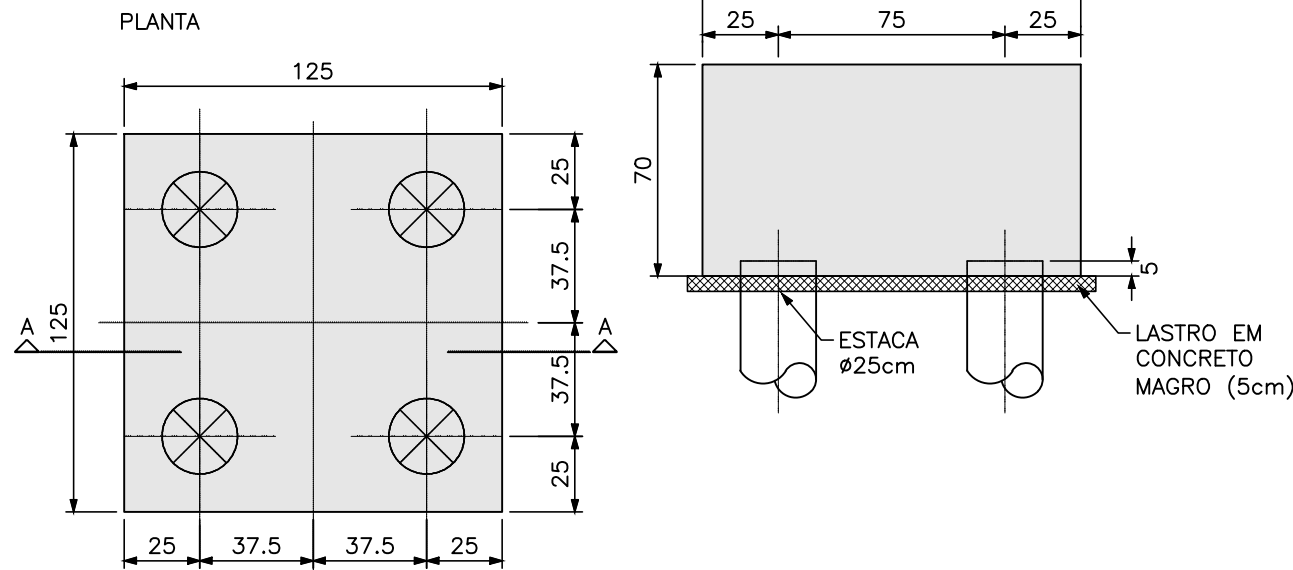
FORMA BLOCOS TIPO B3 (24x)

ESC.: 1:25



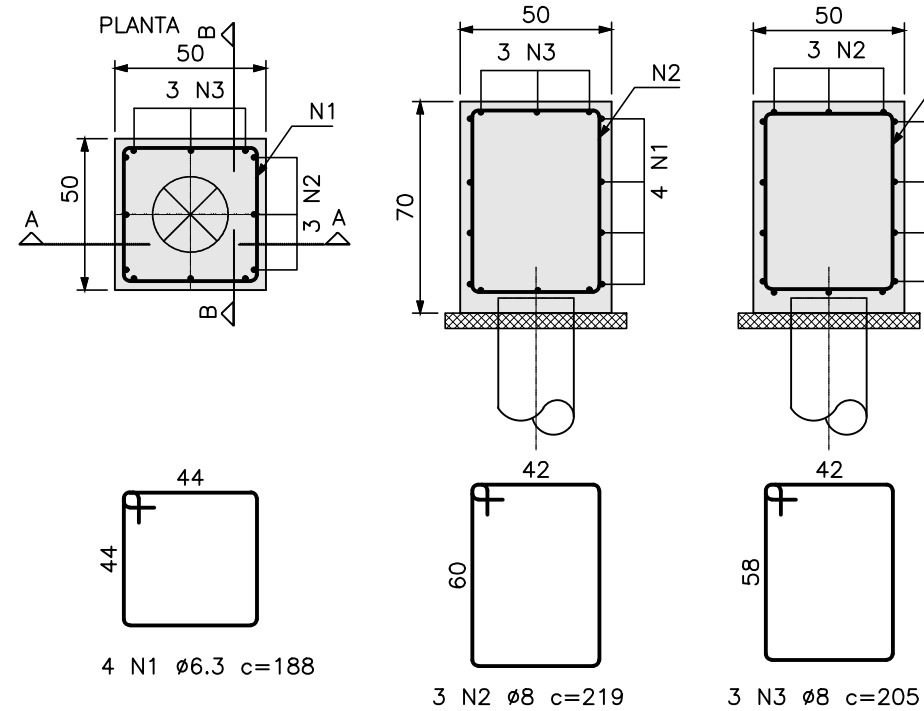
FORMA BLOCOS B4(3x)

ESC.: 1:25



ARM. DO BLOCO B1 (28x)

ESC. 1:25



ARM. DO BLOCO B2 (48x)

ESC. 1:25

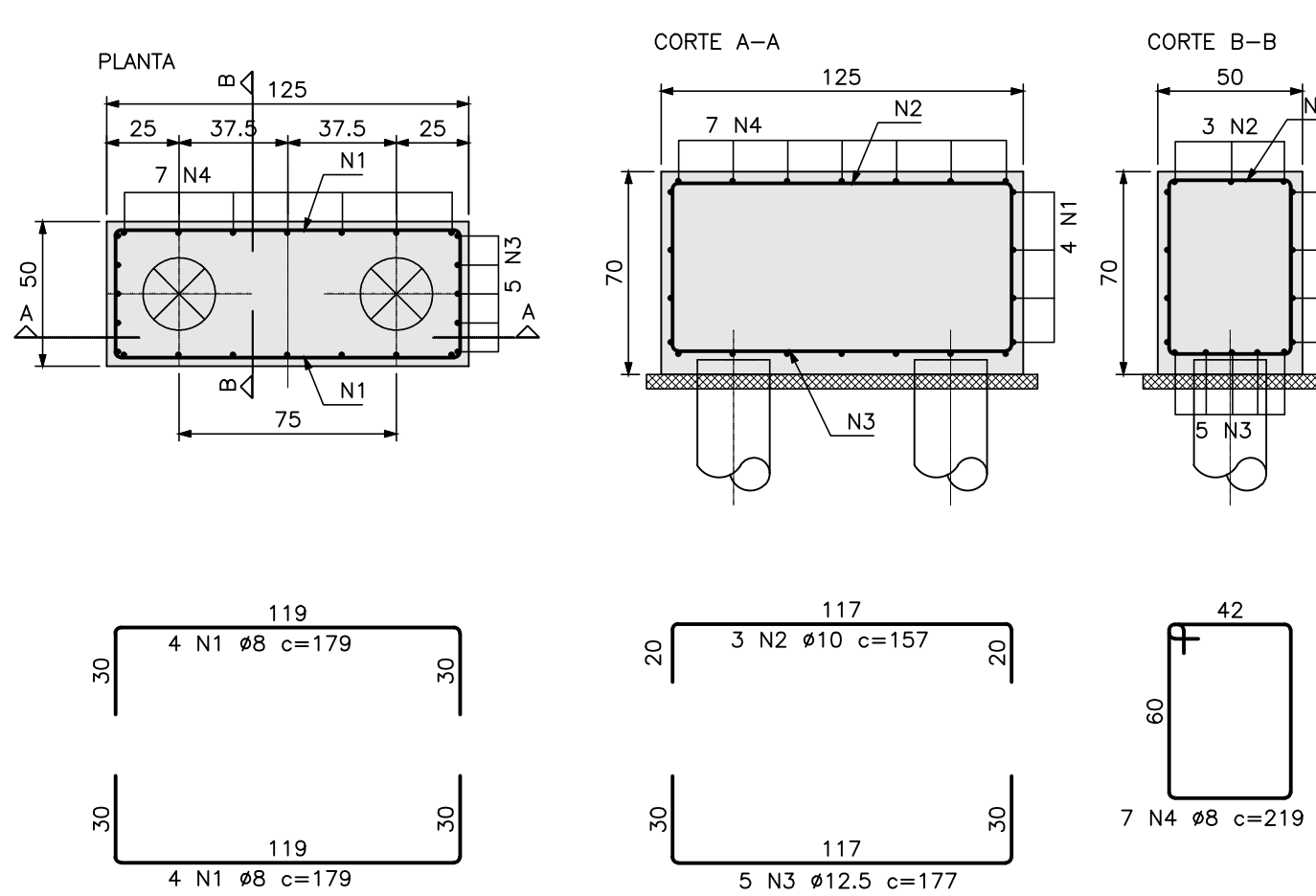
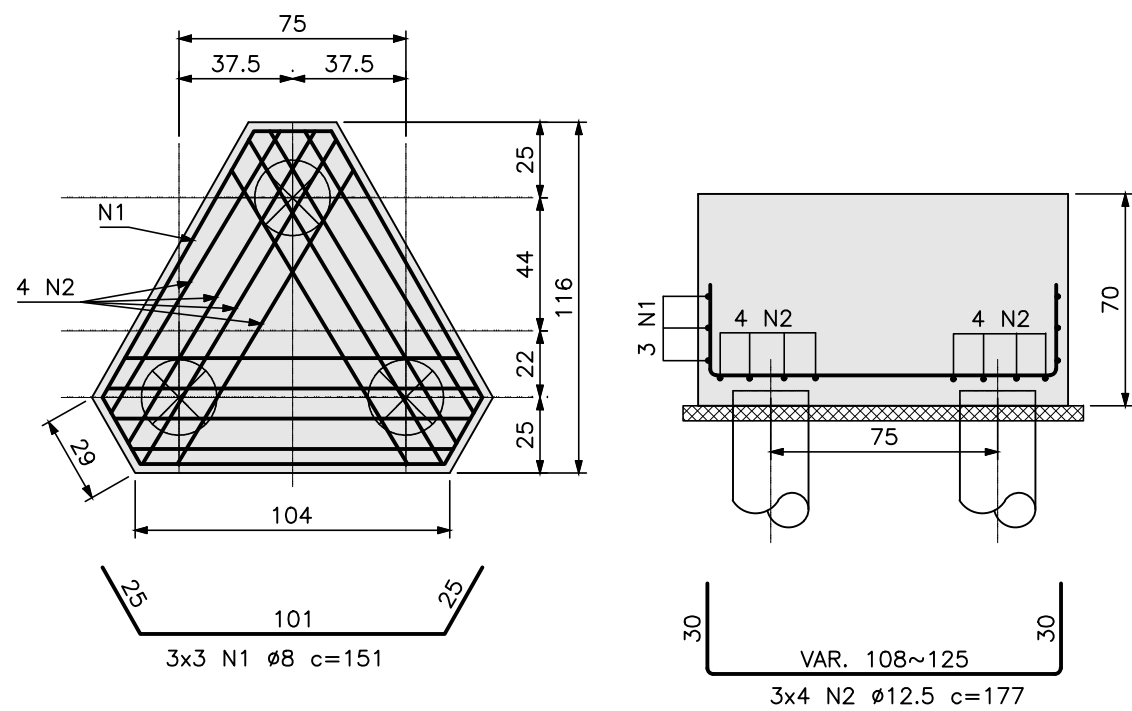


TABELA DE FERROS					
TIPO	POS.	BIT.	QUANT.	Q.Tot.	C.Unl. (cm)
ARM. DO BLOCO B1 (28x)					
CA-50A	1	6.3	4	112	188
CA-50A	2	8	3	84	219
CA-50A	3	8	3	84	205
ARM. DO BLOCO B2 (48x)					
CA-50A	1	8	4	192	179
CA-50A	2	10	3	144	157
CA-50A	3	12.5	5	240	177
CA-50A	4	8	7	336	219
ARM. DO BLOCO B3 (24x)					
CA-50A	1	8	9	216	151
CA-50A	2	12.5	12	288	177
ARM. DO BLOCO B4 (3x)					
CA-50A	1	10	16	48	237
CA-50A	2	8	8	24	265
RESUMO DO AÇO					
PESO CA-50A Ø 6.3				210.56 m	52.64 kg
PESO CA-50A Ø 8				1089.60 m	435.84 kg
PESO CA-50A Ø 10				339.84 m	215.00 kg
PESO CA-50A Ø 12.5				934.56 m	934.56 kg
PESO TOTAL CA-50A					1638.04 kg
CONCRETO fck 25MPa					

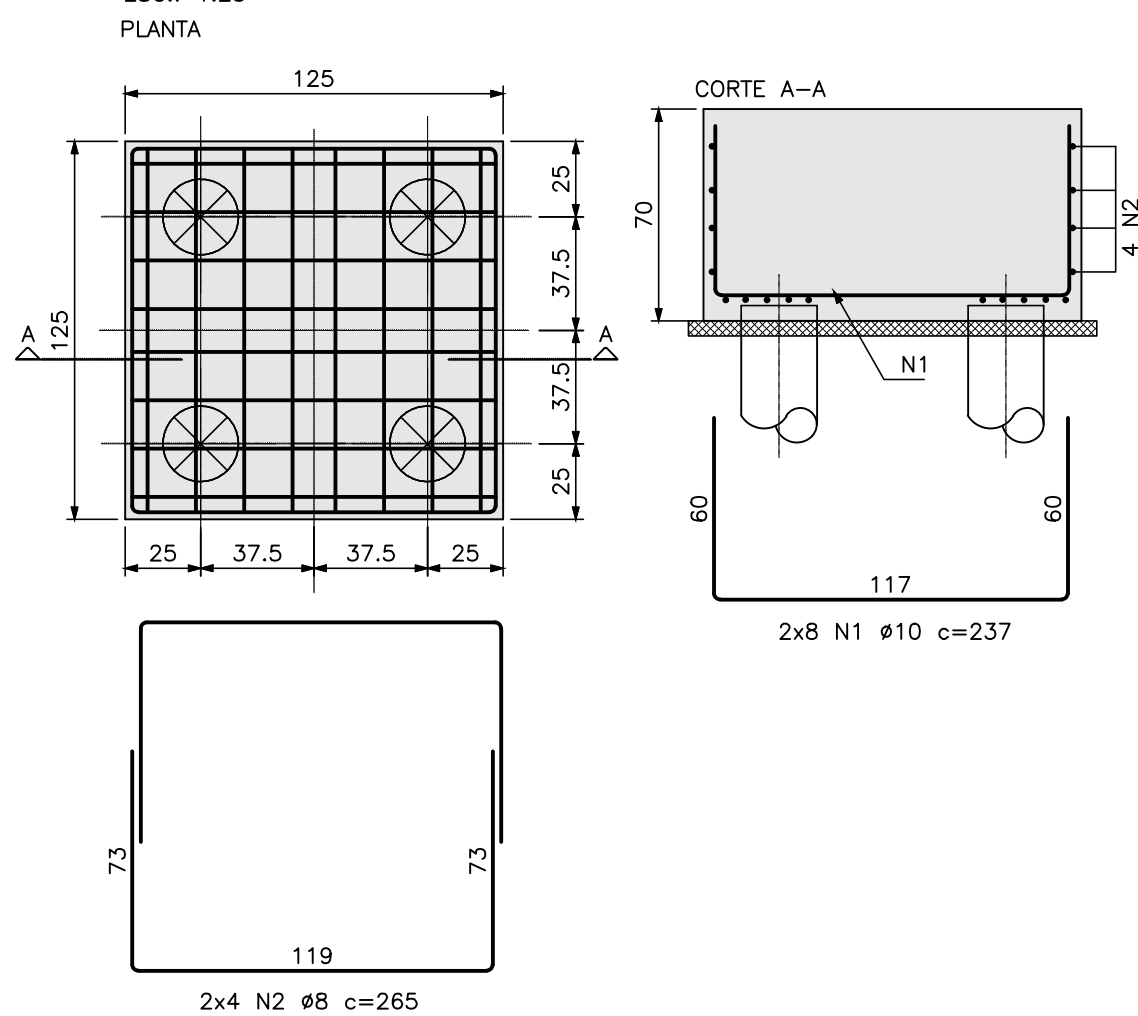
ARM. BLOCOS TIPO B3 (24x)

ESC.: 1:25



ARM. BLOCOS B4(3x)

ESC.: 1:25



ARM. DA COBERTURA LAJE INCLINADA

ESC. 1:50

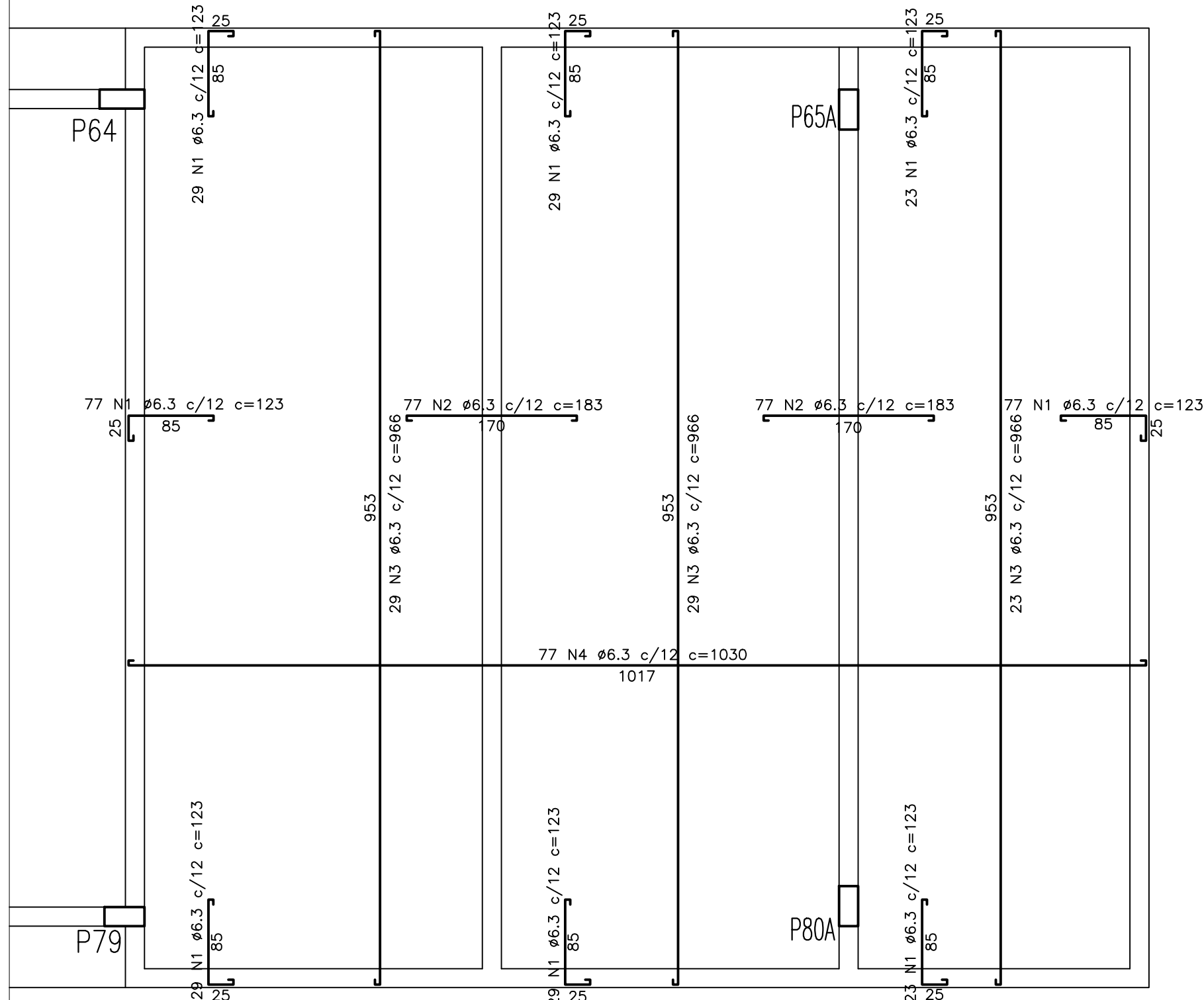


TABELA DE FERROS					
TIPO	POS.	BIT.	QUANT.	Q.Tot.	C.Unl. (cm)
ARM. DA COBERTURA LAJE INCLINADA					
CA-50A	1	6.3	96	96	123
CA-50A	2	6.3	154	154	183
CA-50A	3	6.3	81	81	966
CA-50A	4	6.3	77	77	1030
RESUMO DO AÇO					
PESO CA-50A Ø 6.3				1975.46 m	493.87 kg
PESO TOTAL CA-50A					493.87 kg
CONCRETO fck 25MPa					

NOTAS:

1. CONCRETO fck 30MPa.
2. MEDIDAS EM CENTÍMETROS.
3. COBRIMENTO PARA BLOCOS E BALDRAMES: 4,0cm.
4. NÍVEL DE REFERÊNCIA: VER PROJETO DE ARQUITETURA
5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

REALIZAÇÃO



PROJETO

TEA DIADEMA

LOCAL

RUA MANOEL DA NÓBREGA, 889 - CENTRO - DIADEMA/SP

FASE DO PROJETO

Projeto Executivo

ÁREA TÉCNICA

ESTRUTURA

TÍTULO

FORMA E ARMAÇÃO DE BLOCOS, ESPECIFICAÇÃO DAS ESTACAS E ARMAÇÃO DAS LAJES MACIÇAS

DATA

NOV/2025

REVISÃO

R00

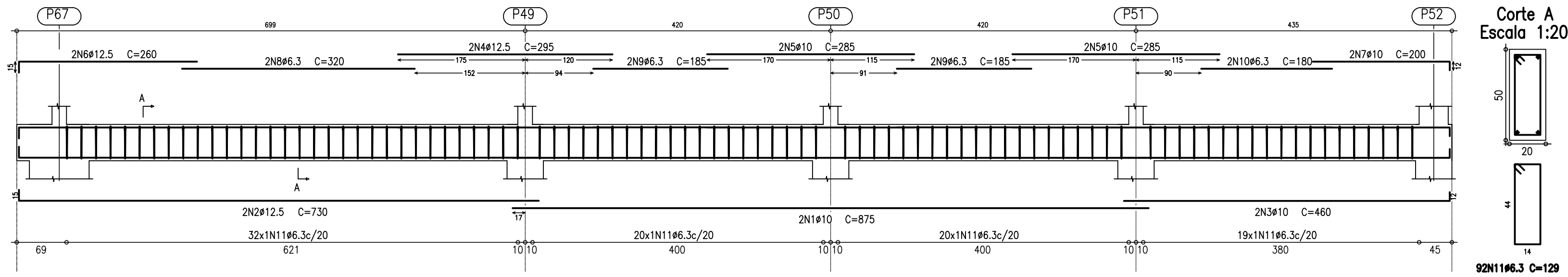
ESCALA

INDICADA

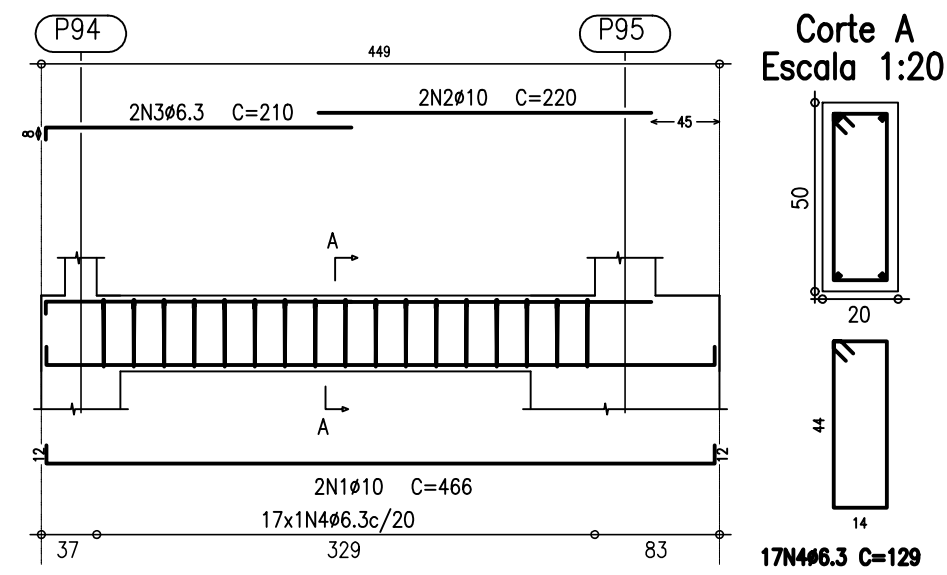
FOLHA Nº

FL-10

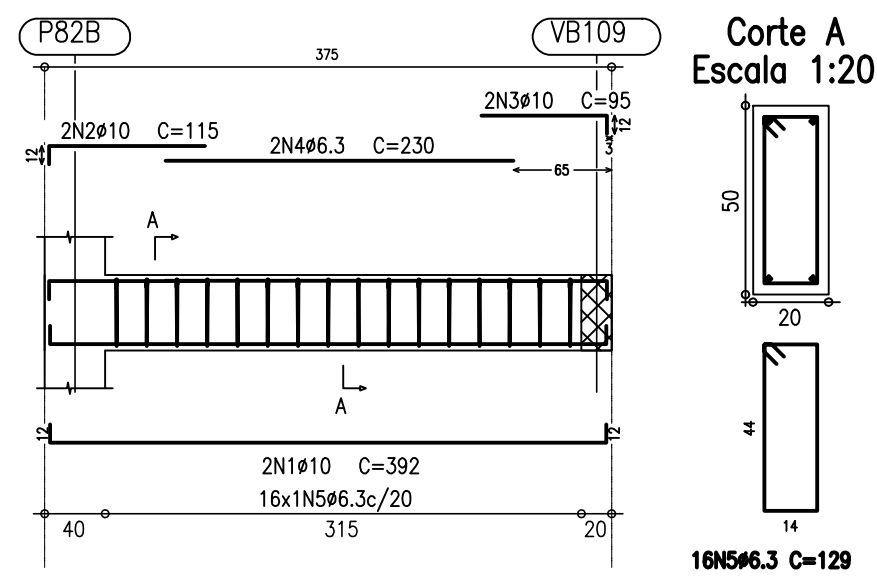
VB101
Escala 1:50



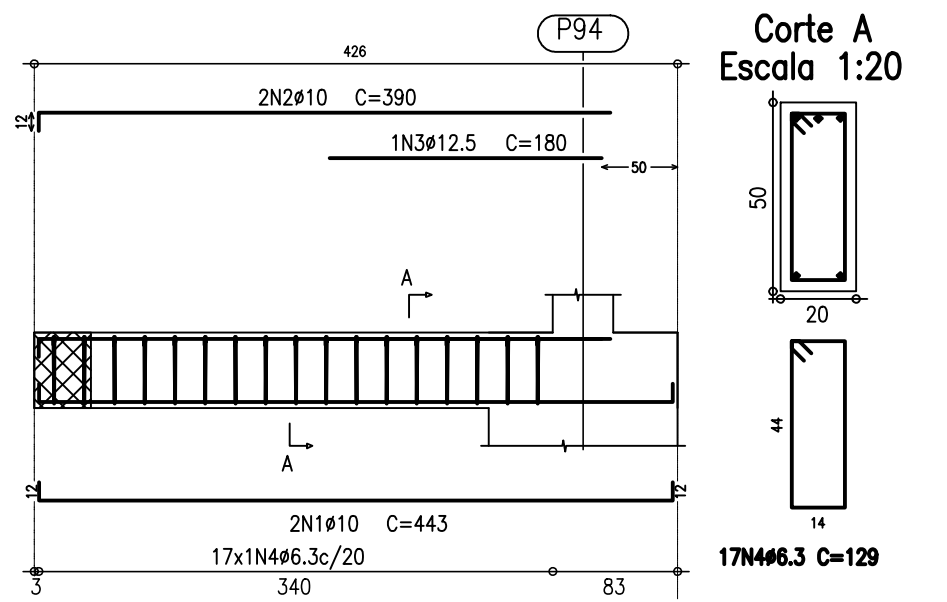
VB103
Escala 1:50



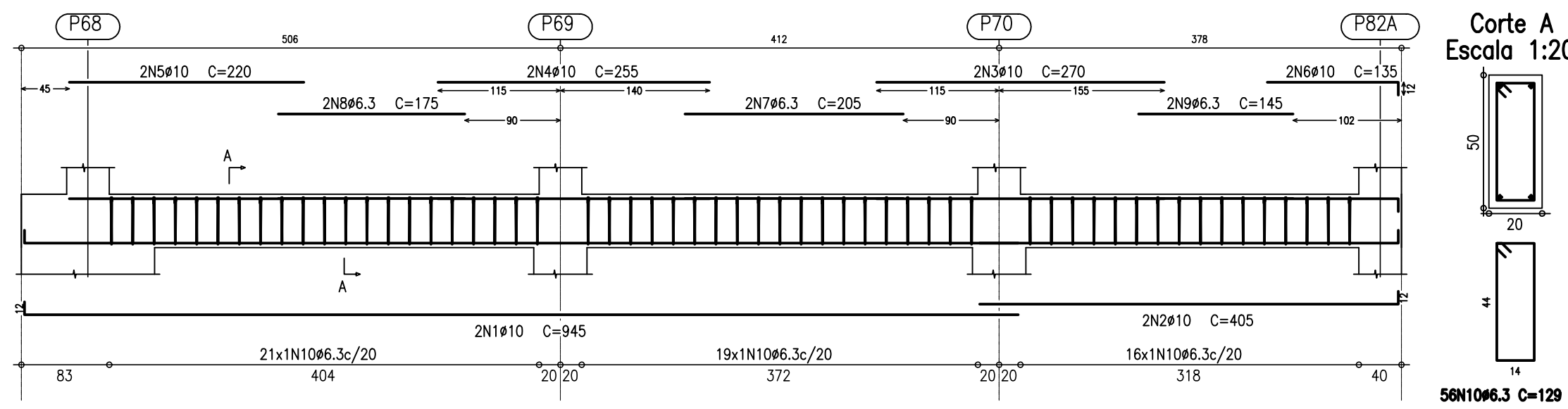
VB108
Escala 1:50



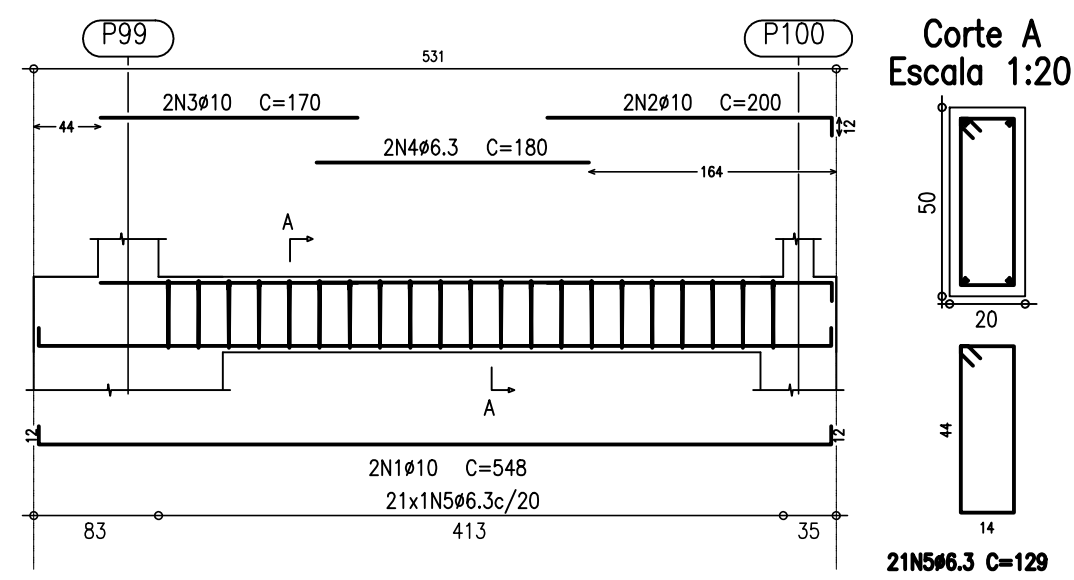
VB102
Escala 1:50



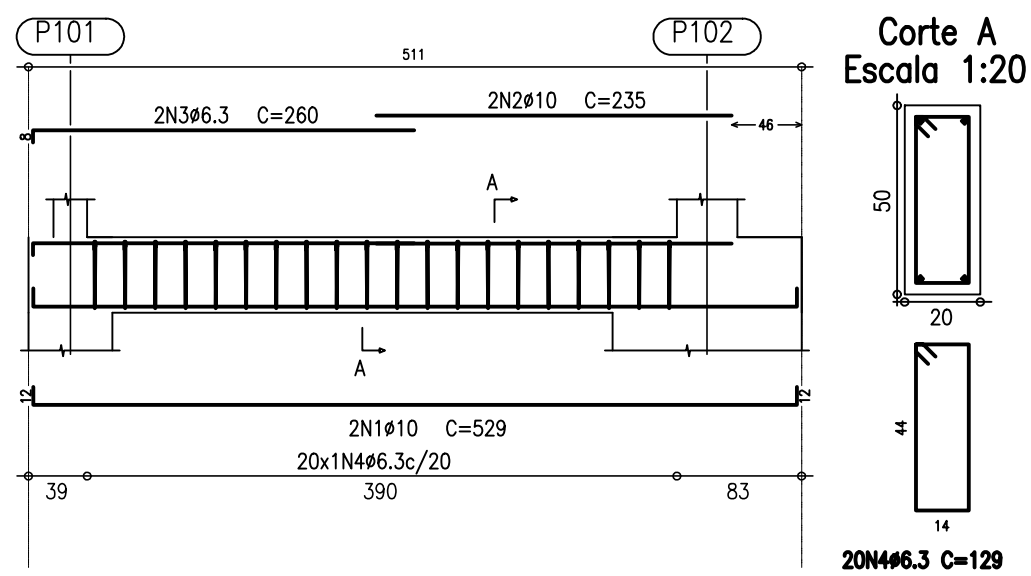
VB105
Escala 1:50



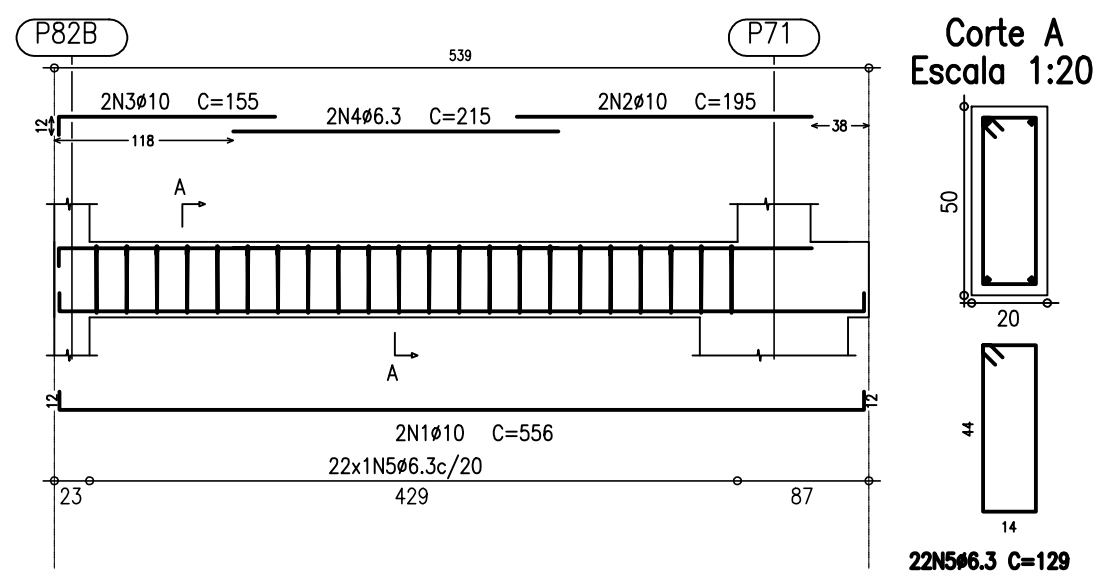
VB111
Escala 1:50



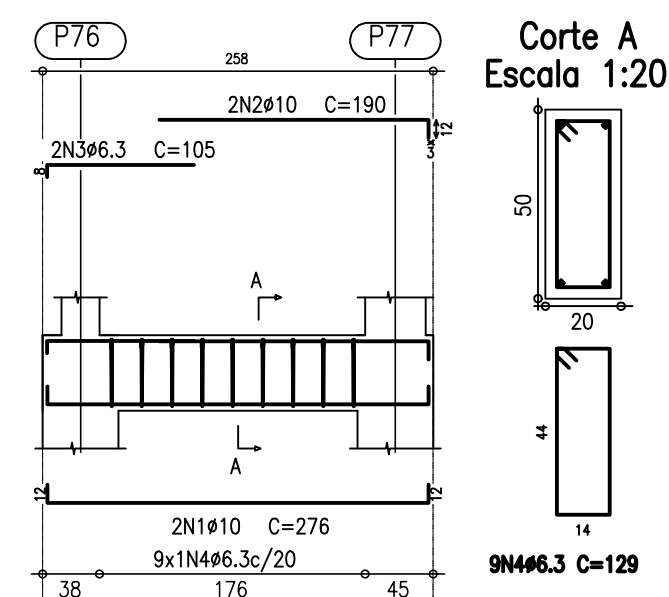
VB104
Escala 1:50



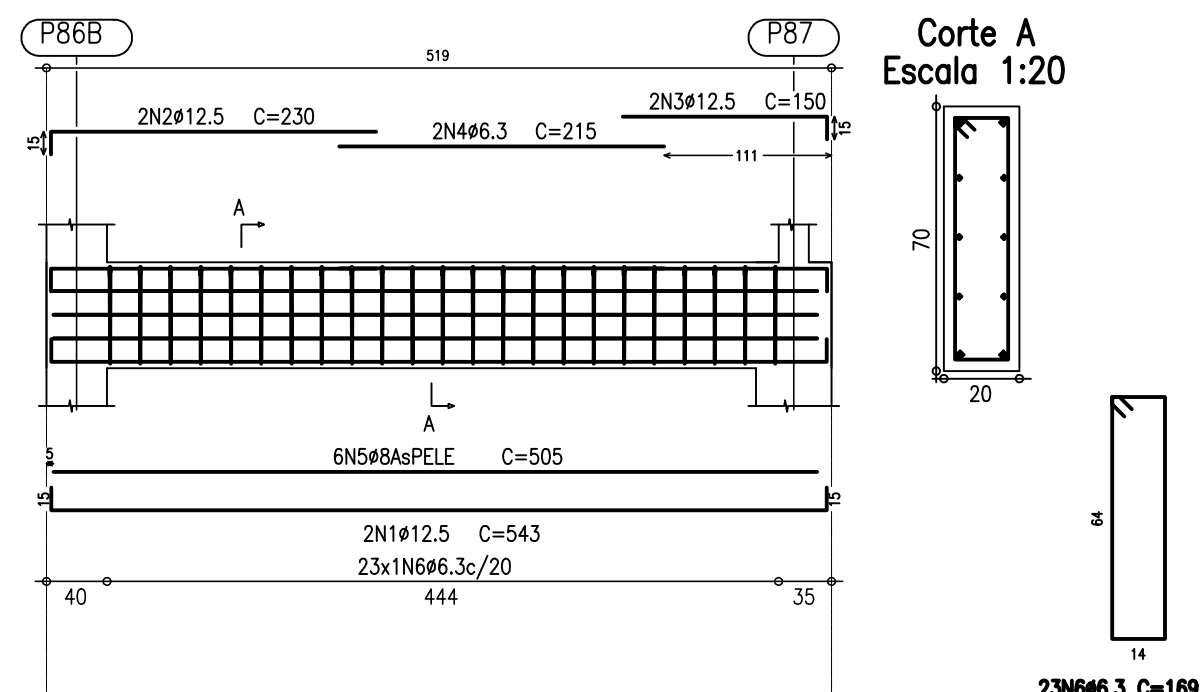
VB107
Escala 1:50



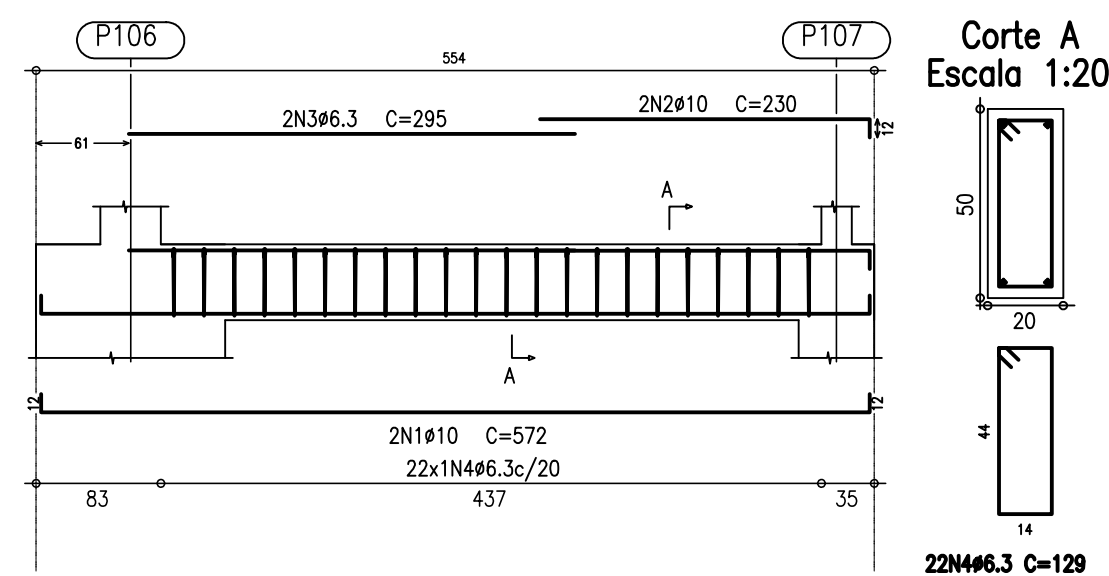
VB106
Escala 1:50



VB110
Escala 1:50



VB112
Escala 1:50



NOTAS:

1. CONCRETO fck 30MPa.
2. MEDIDAS EM CENTIMETROS.
3. COBRIMENTO PARA BLOCOS E BALDRAMES: 4,0cm.
4. NÍVEL DE REFERÊNCIA: VER PROJETO DE ARQUITETURA
5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reto (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)	
VB101	1	Ø10	2		875		875	1750	11.0		
	2	Ø12.5	2	15	715		730	1460	14.3		
	3	Ø10	2		448	12	460	920	5.8		
	4	Ø12.5	2		295		295	590	5.8		
	5	Ø10	4		285		285	1140	7.2		
	6	Ø12.5	2	15	245		260	520	5.1		
	7	Ø10	2		188	12	200	400	2.5		
	8	Ø6.3	2		320		320	640	1.6		
	9	Ø6.3	4		185		185	740	1.8		
	10	Ø6.3	2		180		180	360	0.9		
	11	Ø6.3	91				129	11739	29.0		
Total+10%:									93.5		
VB102	1	Ø10	2	12	419	12	443	886	5.6		
	2	Ø10	2	12	378		390	780	4.9		
	3	Ø12.5	1		180		180	180	1.8		
	4	Ø6.3	17				129	2193	5.4		
Total+10%:									19.5		
VB103	1	Ø10	2	12	442	12	466	932	5.9		
	2	Ø10	2		220		220	440	2.8		
	3	Ø6.3	2	8	202		210	420	1.0		
	4	Ø6.3	17				129	2193	5.4		
Total+10%:									16.6		
VB104	1	Ø10	2	12	505	12	529	1058	6.6		
	2	Ø10	2		235		235	470	3.0		
	3	Ø6.3	2	8	252		260	520	1.3		
	4	Ø6.3	20				129	2580	6.4		
Total+10%:									19.0		
VB105	1	Ø10	2	12	933		945	1890	11.9		
	2	Ø10	2		393	12	405	810	5.1		
	3	Ø10	2		270		270	540	3.4		
	4	Ø10	2		255		255	510	3.2		
	5	Ø10	2		220		220	440	2.8		
	6	Ø10	2		123	12	135	270	1.7		
	7	Ø6.3	2		205		205	410	1.0		
	8	Ø6.3	2		175		175	350	0.9		
	9	Ø6.3	2		145		145	290	0.7		
	10	Ø6.3	56				129	7224	17.9		
Total+10%:									53.5		
VB106	1	Ø10	2	12	252	12	276	552	3.5		
	2	Ø10	2		178	12	190	380	2.4		
	3	Ø6.3	2	8	97		105	210	0.5		
	4	Ø6.3	9				129	1161	2.9		
Total+10%:									10.2		
VB107	1	Ø10	2	12	532	12	556	1112	7.0		
	2	Ø10	2		195		195	390	2.4		
	3	Ø10	2	12	143		155	310	1.9		
	4	Ø6.3	2		215		215	430	1.1		
	5	Ø6.3	22				129	2838	7.0		
Total+10%:									21.3		
VB108	1	Ø10	2	12	368	12	392	784	4.9		
	2	Ø10	2	12	103		115	230	1.4		
	3	Ø10	2		83	12	95	190	1.2		
	4	Ø6.3	2		230		230	460	1.1		
	5	Ø6.3	16				129	2064	5.1		
Total+10%:									15.1		
VB110	1	Ø12.5	2	15	513	15	543	1086	10.7		
	2	Ø12.5	2		215		230	460	4.5		
	3	Ø12.5	2		135	15	150	300	2.9		
	4	Ø6.3	2		215		215	430	1.1		
	5	Ø8	6		505		505	3030	11.9		
	6	Ø6.3	23				169	3887	9.6		
Total+10%:									44.8		
VB111	1	Ø10	2	12	524	12	548	1096	6.9		
	2	Ø10	2		188		200	400	2.5		
	3	Ø10	2		170		170	340	2.1		
	4	Ø6.3	2		180		180	360	0.9		
	5	Ø6.3	21				129	2709	6.7		
Total+10%:									21.0		
VB112	1	Ø10	2	12	548	12	572	1144	7.2		
	2	Ø10	2		218	12	230	460	2.9		
	3	Ø6.3	2		295		295	590	1.5		
	4	Ø6.3	22				129	2838	7.0		
Total+10%:									20.5		
									Ø6.3:	129.5	0.0
									Ø8:	13.1	0.0
									Ø10:	142.9	0.0
									Ø12.5:	49.5	0.0
									Total:	335.0	0.0

REALIZAÇÃO



PROJETO

TEA DIADEMA

LOCAL

RUA MANOEL DA NÓBREGA, 889 - CENTRO - DIADEMA/SP

FASE DO PROJETO

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ÁREA TÉCNICA

ESTRUTURA

TÍTULO

ARMAÇÕES BALDRAMES - NÍVEL INFERIOR - 1ª PARTE

DATA

NOV/2025

REVISÃO

R01

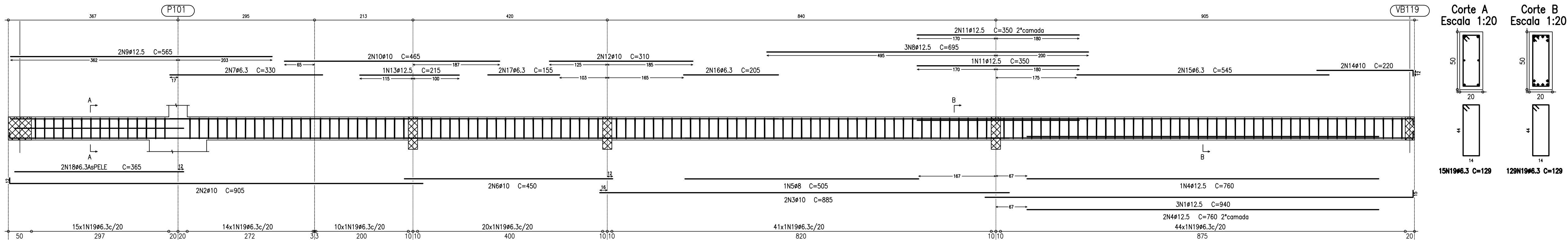
ESCALA

INDICADA

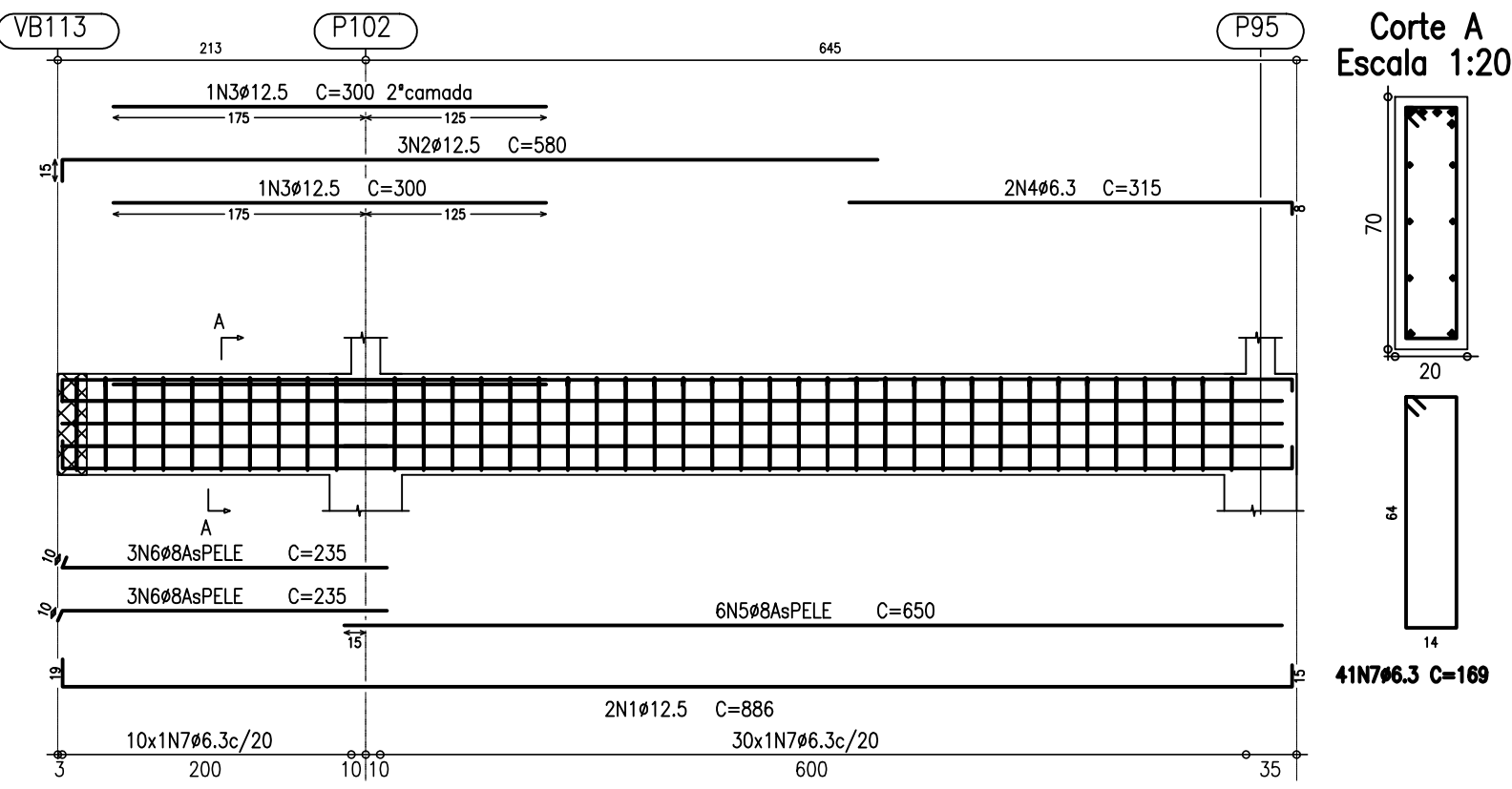
FOLHA Nº

FL-12

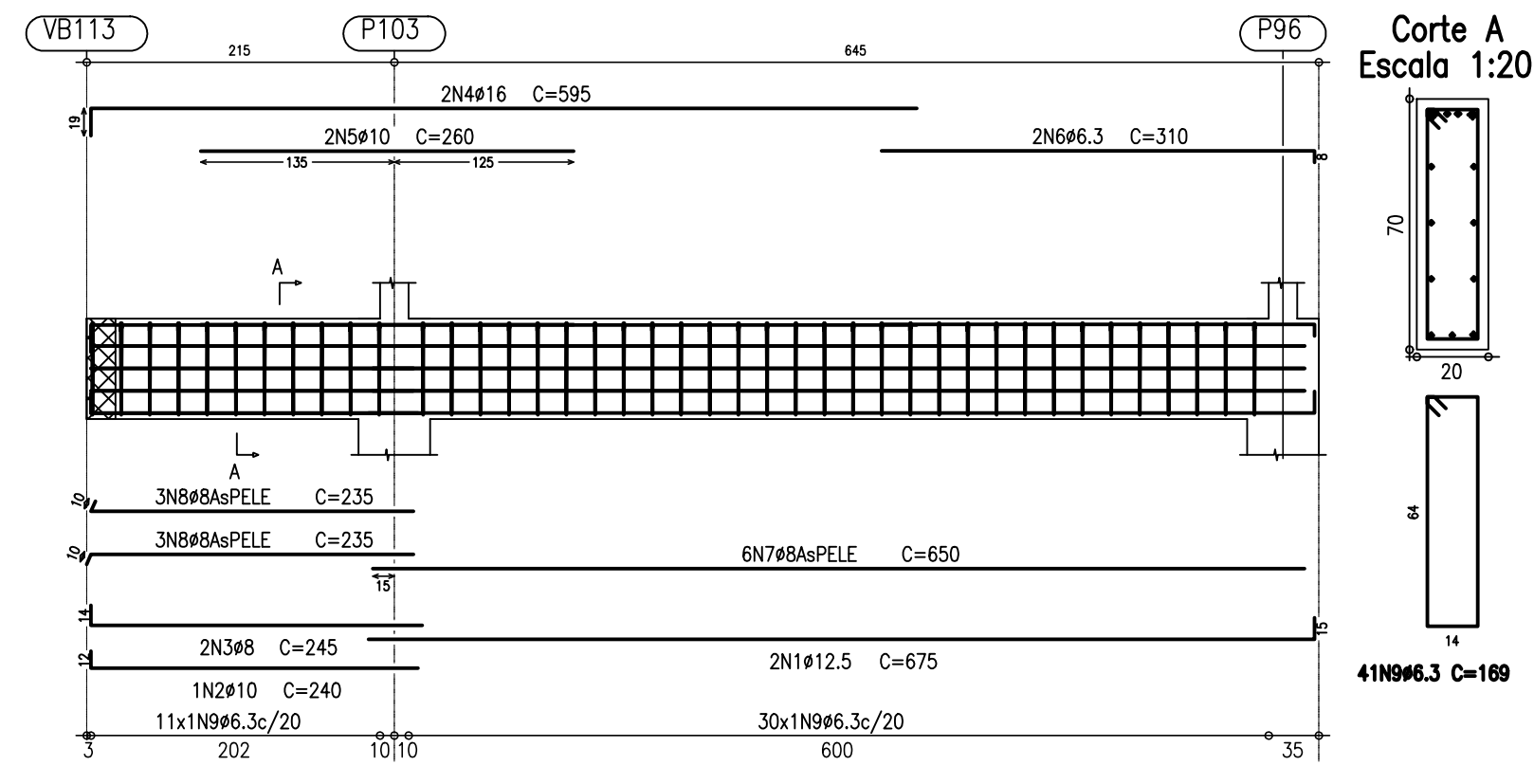
VB113
Escala 1:50



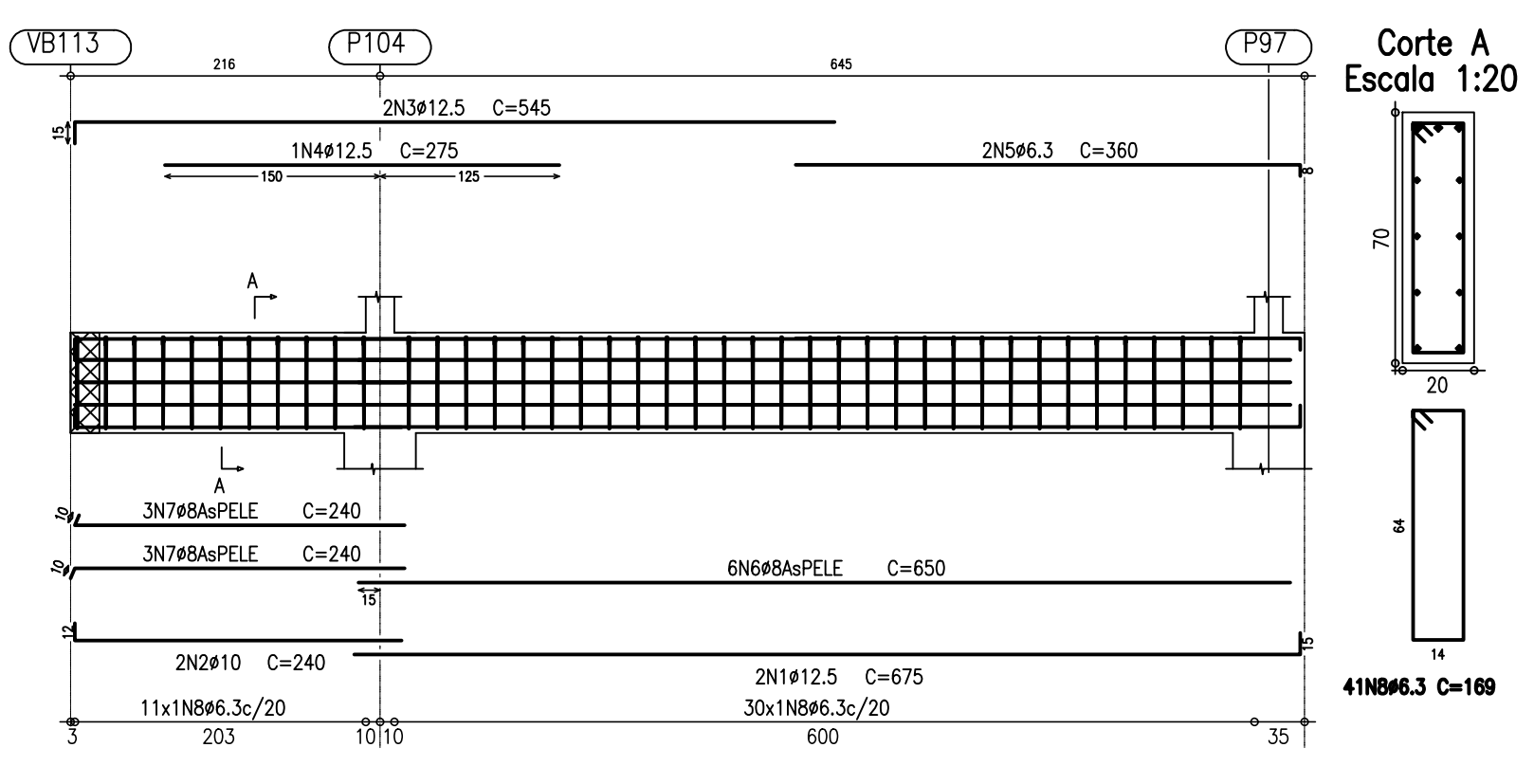
VB114
Escala 1:50



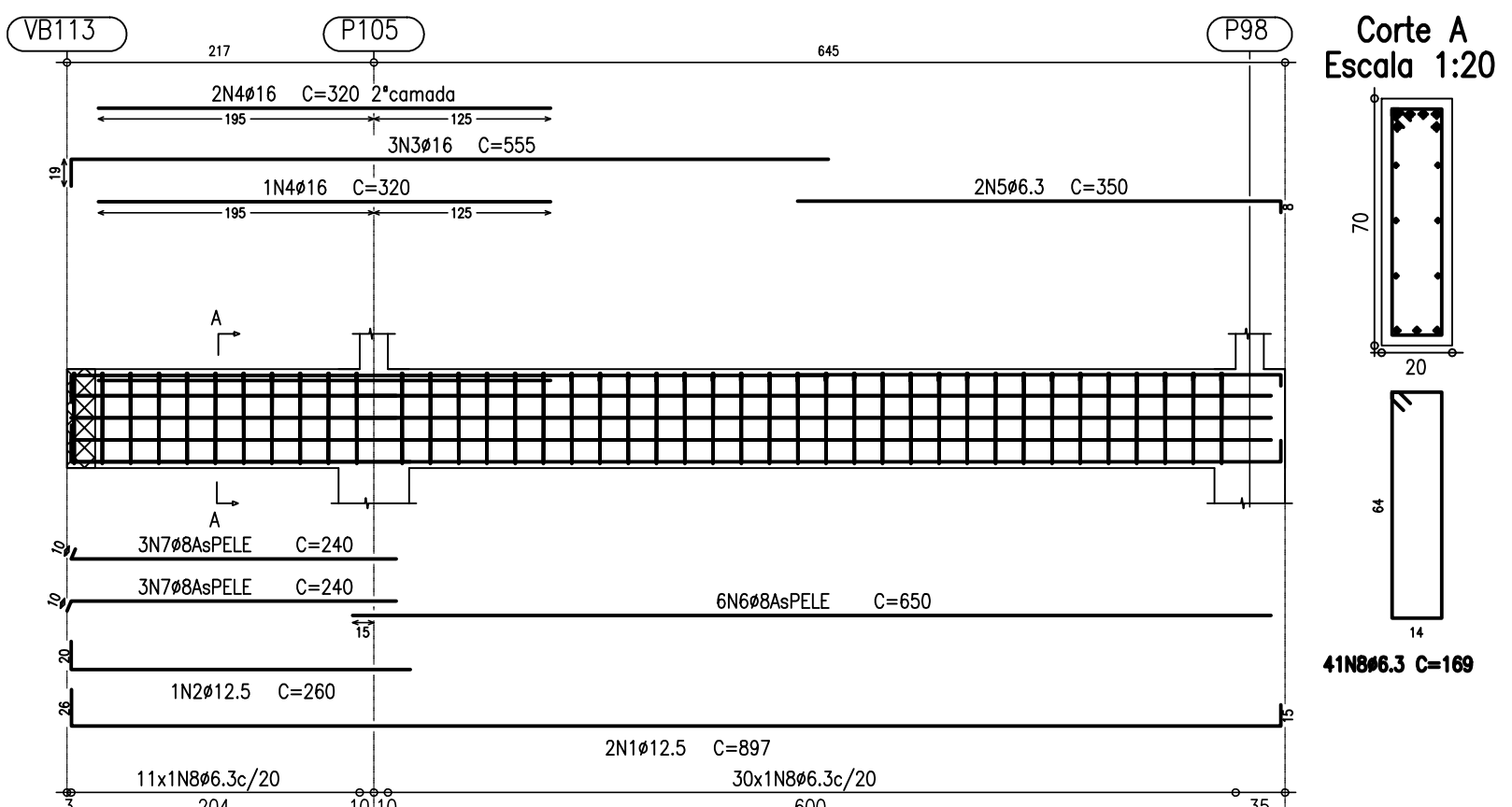
VB115
Escala 1:50



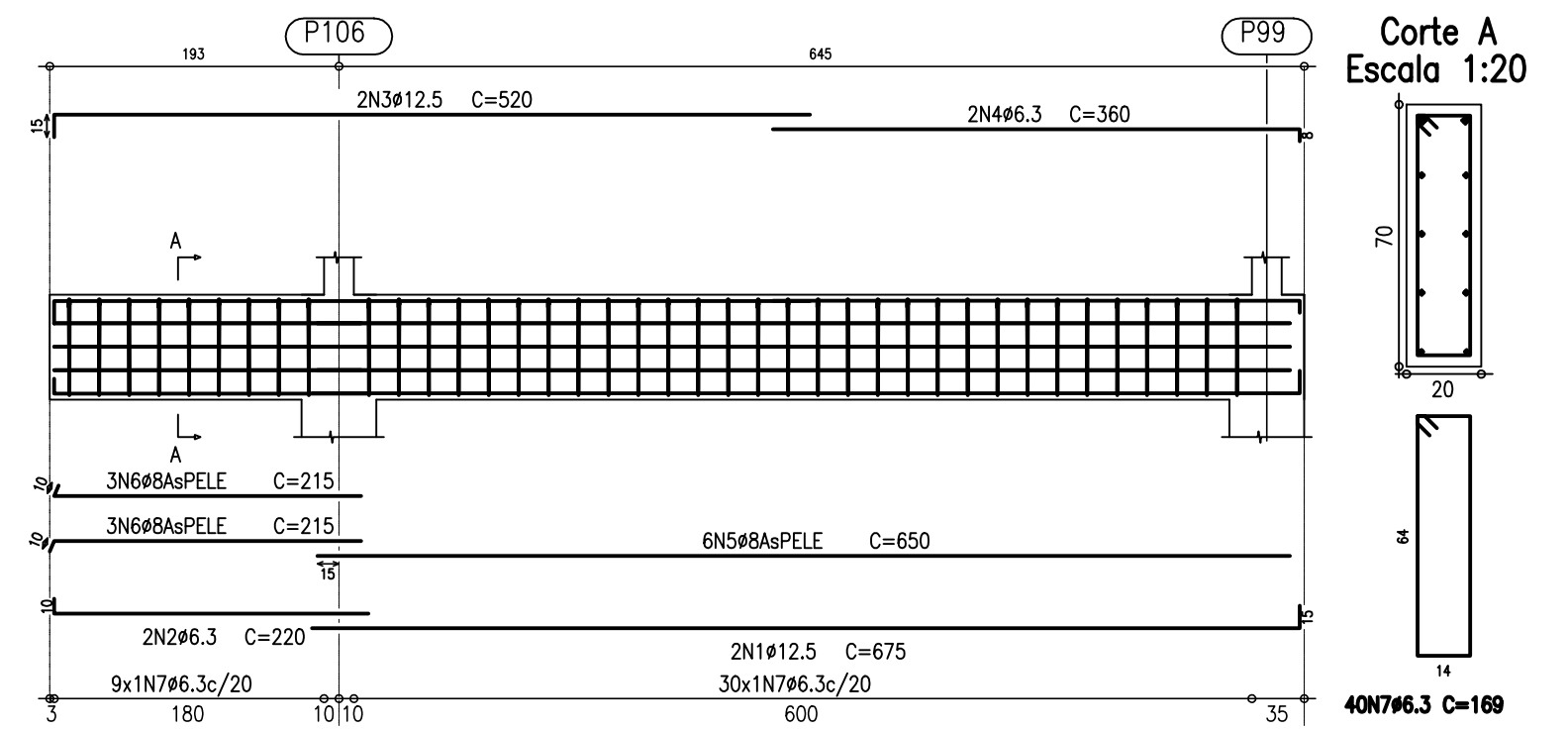
VB116
Escala 1:50



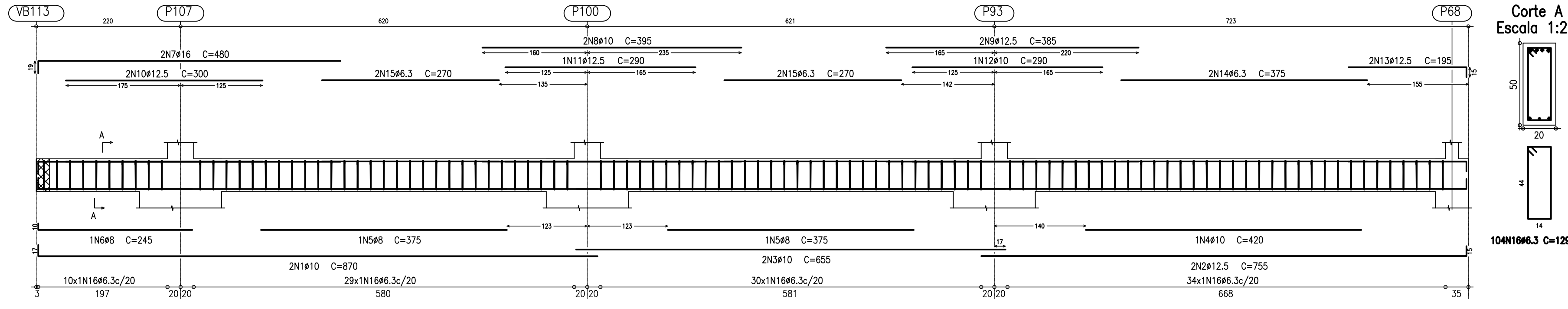
VB117
Escala 1:50



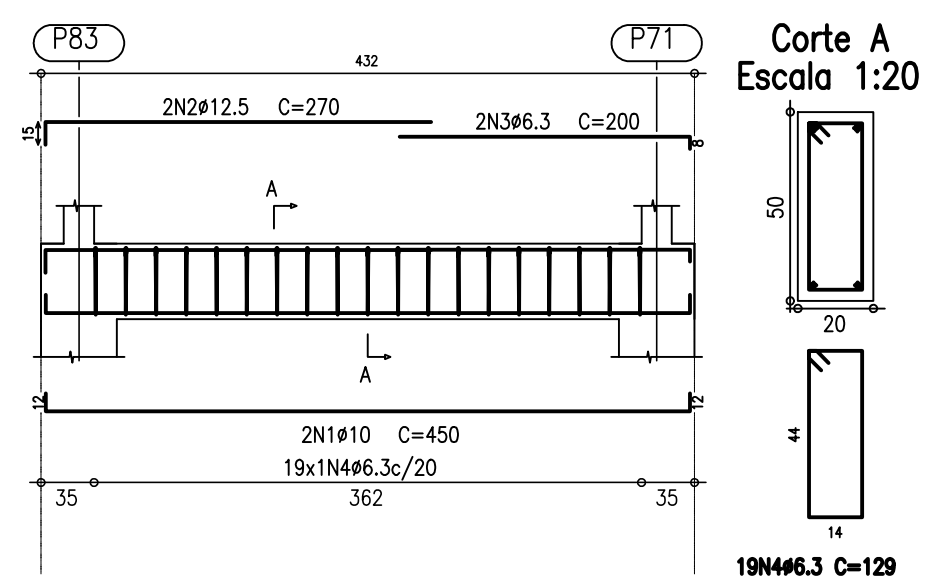
VB118
Escala 1:50



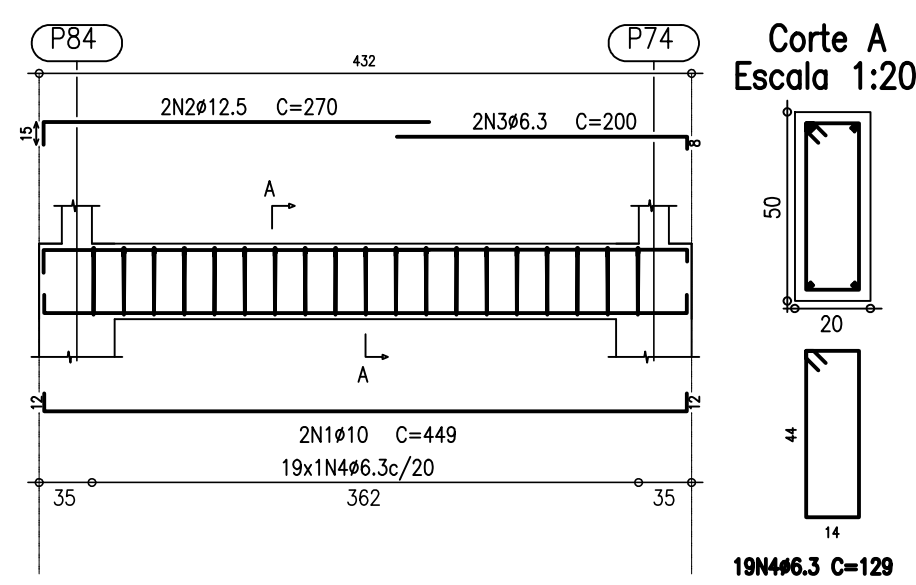
VB119
Escala 1:50



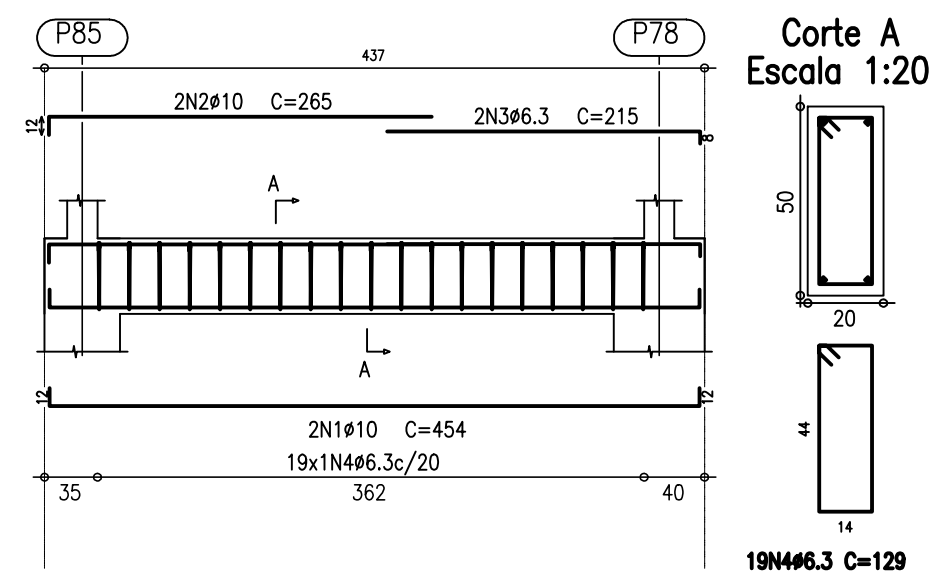
VB120
Escala 1:50



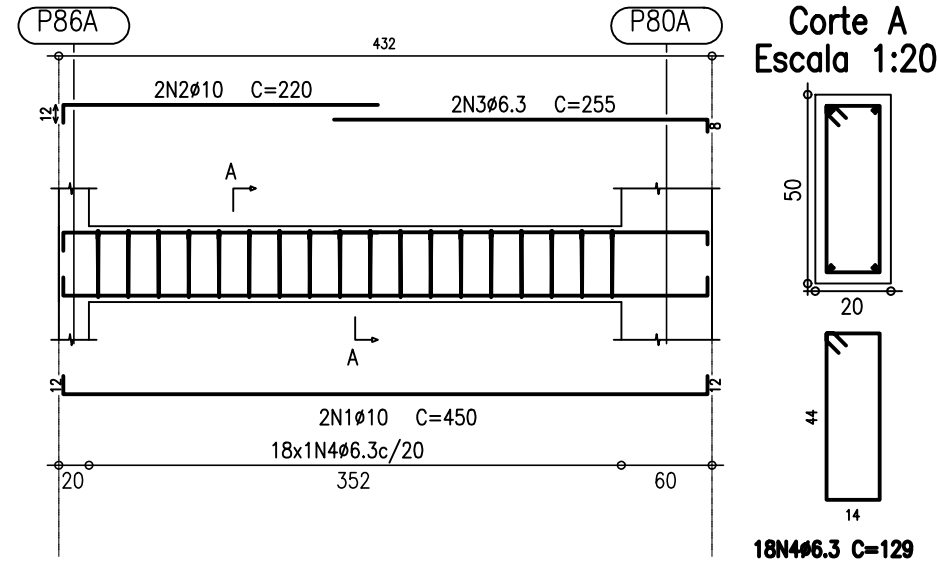
VB121
Escala 1:50



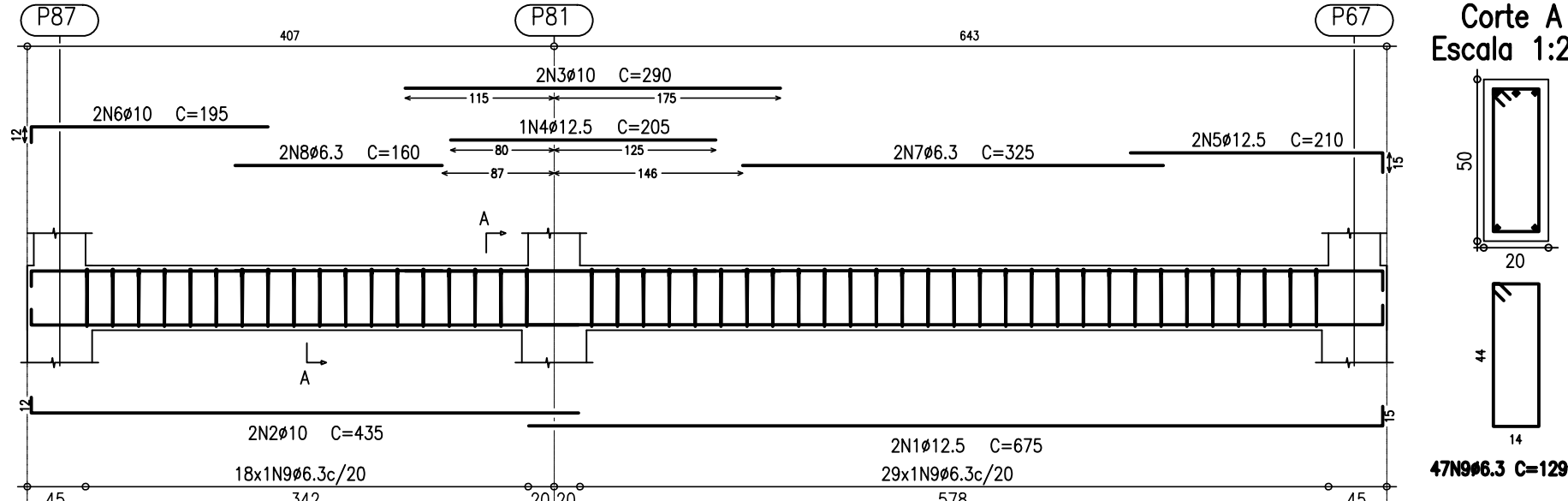
VB122
Escala 1:50



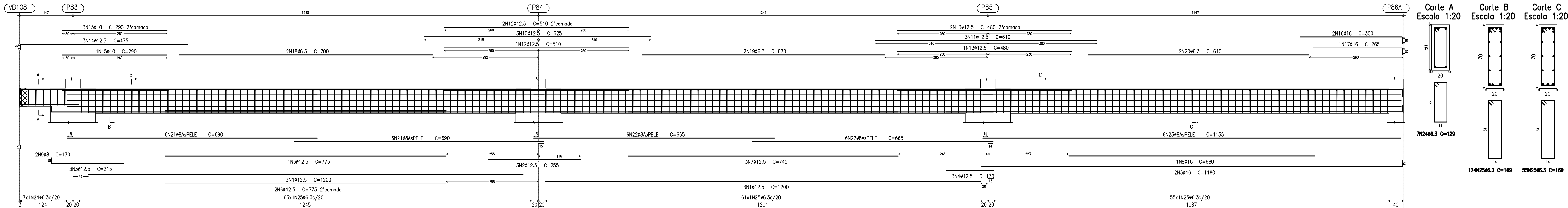
VB123
Escala 1:50



VB124
Escala 1:50

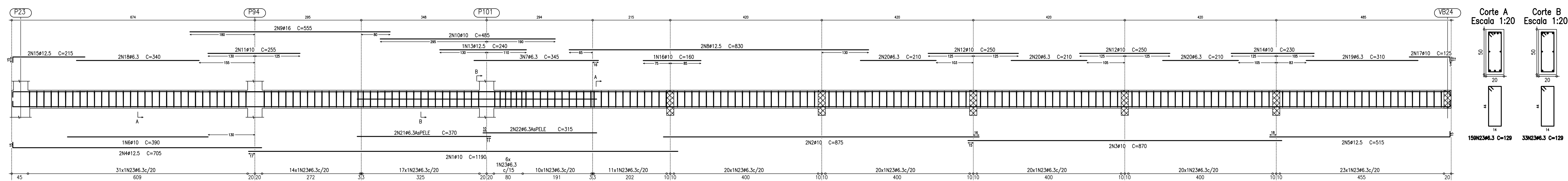


VB109
Escala 1:50

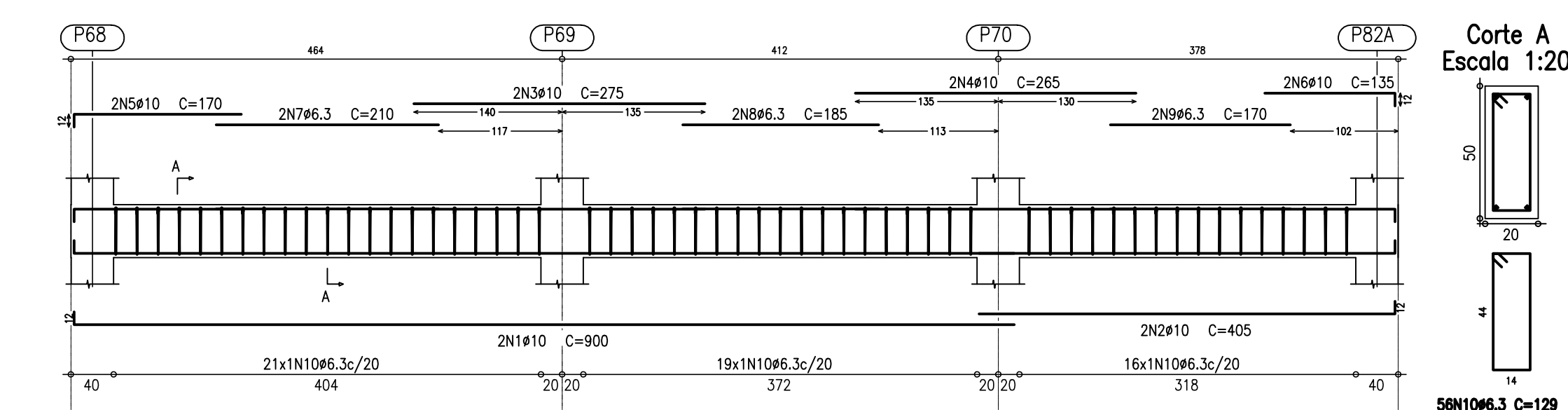


Elemento	Pos.	Diam.	Q.	Deb. (cm)	Reta (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
VB109	1	#12,5	3	200	1500	2200	30,7	941	2802,7
	2	#12,5	3	255	255	255	765	255	765
	3	#12,5	3	150	200	215	645	63	63
	4	#12,5	3	130	130	360	36	36	36
	5	#16	2	1161	118	180	2360	37,1	37,1
	6	#12,5	3	275	775	2325	228	228	228
	7	#12,5	3	745	745	2235	219	219	219
	8	#16	2	680	680	10,7	10,7	10,7	10,7
	9	#8	2	10	160	170	340	1,3	1,3
	10	#12,5	3	625	625	1875	184	184	184
	11	#12,5	3	610	610	1830	180	180	180
	12	#12,5	3	510	510	1530	150	150	150
	13	#12,5	3	480	480	1440	141	141	141
	14	#12,5	3	460	475	1425	140	140	140
	15	#10	4	290	290	1160	7,3	7,3	7,3
	16	#16	2	281	19	300	600	8,4	8,4
	17	#16	2	246	19	260	260	4,2	4,2
	18	#6,3	2	700	700	1400	3,2	3,2	3,2
	19	#6,3	2	670	670	1340	3,3	3,3	3,3
	20	#6,3	2	610	610	1220	3,0	3,0	3,0
	21	#8	12	690	690	8280	32,5	32,5	32,5
	22	#8	12	665	665	7980	31,3	31,3	31,3
	23	#8	4	1155	1155	6930	27,2	27,2	27,2
	24	#6,3	2	903	129	903	2,2	2,2	2,2
	25	#6,3	179	169	30251	74,8	74,8	74,8	74,8
Total+10%								506,3	506,3
VB113	1	#12,5	3	925	925	15	15	941	2802,7
	2	#10	2	12	893	905	1810	11,4	11,4
	3	#10	2	885	885	1770	11,1	11,1	11,1
	4	#12,5	3	760	760	2280	22,4	22,4	22,4
	5	#8	1	505	505	505	2,0	2,0	2,0
	6	#10	2	265	450	600	5,7	5,7	5,7
	7	#6,3	2	330	330	660	1,6	1,6	1,6
	8	#12,5	3	695	695	2085	20,5	20,5	20,5
	9	#12,5	2	565	565	1130	11,1	11,1	11,1
	10	#10	2	465	465	930	5,8	5,8	5,8
	11	#12,5	3	350	350	1050	10,3	10,3	10,3
	12	#10	2	310	310	620	3,9	3,9	3,9
	13	#12,5	3	215	215	645	2,1	2,1	2,1
	14	#10	2	208	12	220	440	2,8	2,8
	15	#6,3	2	545	545	1090	2,7	2,7	2,7
	16	#6,3	2	205	205	410	1,0	1,0	1,0
	17	#6,3	2	365	365	730	1,8	1,8	1,8
	18	#6,3	2	129	1870	1870	6,9	6,9	6,9
	19	#6,3	144	169	30251	74,8	74,8	74,8	74,8
Total+10%								209,7	209,7
VB114	1	#12,5	2	19	852	15	866	1772	17,4
	2	#12,5	3	15	565	565	1740	17,1	17,1
	3	#10	2	228	228	456	3,0	3,0	3,0
	4	#6,3	2	307	8	315	630	1,6	1,6
	5	#8	6	650	650	3900	15,3	15,3	15,3
	6	#8	6	10	225	235	1410	5,5	5,5
	7	#6,3	40	169	6929	17,1	17,1	17,1	17,1
	Total+10%							87,5	87,5
VB115	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	228	228	456	3,0	3,0	3,0
	3	#8	2	14	231	245	490	1,9	1,9
	4	#16	19	576	595	1190	18,7	18,7	18,7
	5	#10	2	265	260	520	3,3	3,3	3,3
	6	#6,3	2	302	8	310	620	1,5	1,5
	7	#8	6	650	650	3900	15,3	15,3	15,3
	8	#8	6	10	225	235	1410	5,5	5,5
	9	#6,3	41	169	6929	17,1	17,1	17,1	17,1
	Total+10%							85,8	85,8
VB116	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	228	228	456	3,0	3,0	3,0
	3	#12,5	2	15	530	545	1090	10,7	10,7
	4	#12,5	1	275	275	275	2,7	2,7	2,7
	5	#6,3	2	302	8	310	620	1,6	1,6
	6	#8	6	650	650	3900	15,3	15,3	15,3
	7	#8	6	10	230	240	1440	5,7	5,7
	8	#6,3	41	169	6929	17,1	17,1	17,1	17,1
	Total+10%							76,5	76,5
VB117	1	#12,5	2	26	856	15	897	1798	17,6
	2	#12,5	1	20	240	260	260	2,6	2,6
	3	#16	2	19	536	555	1655	26,1	26,1
	4	#16	3	320	320	960	15,1	15,1	15,1
	5	#6,3	8	342	8	350	700	1,7	1,7
	6	#8	6	650	650	3900	15,3	15,3	15,3
	7	#8	6	10	230	240	1440	5,7	5,7
	8	#6,3	41	169	6929	17,1	17,1	17,1	17,1
Total+10%							111,3	111,3	
VB118	1	#12,5	2	12	660	15	675	1350	13,2
	2	#12,5	2	15	505	505	1010	10,2	10,2
	3	#6,3	2	302	8	310	620	1,8	1,8
	4	#8	6	650	650	3900	15,3	15,3	15,3
	5	#8	6	10	205	215	1260	5,1	5,1
	6	#6,3	39	169	6929	17,1	17,1	17,1	17,1
	Total+10%							69,3	69,3
VB119	1	#10	2	17	853	870	1742	14,8	14,8
	2	#12,5	2	17	740	750	1510	14,8	14,8
	3	#10	2	655	655	1310	8,2	8,2	8,2
	4	#10	1	420	420	840	2,6	2,6	2,6
	5	#8	2	375	375	750	2,9	2,9	2,9
	6	#8	1	10	235	245	245	1,0	1,0
	7	#16	2	19	461	480	960	15,1	15,1
	8	#10	2	12	395	395	790	5,0	5,0
	9	#12,5	2	385	385	770	7,6	7,6	7,6
	10	#12,5	2	300	300	600	5,9	5,9	5,9
VB120	1	#12,5	1	290	290	290	2,8	2,8	2,8
	2	#10	1	290	290	290	1,8	1,8	1,8
	3	#12,5	2	180	180	360	3,9	3,9	3,9
	4	#6,3	2	375	375	750	1,9	1,9	1,9
	5	#6,3	4	270	270	1080	2,7	2,7	2,7
	6	#6,3	103	129	13287	32,9	32,9	32,9	32,9
	Total+10%							131,9	131,9
VB121	1	#10	2	12	426	426	852	5,7	5,7
	2	#12,5	2	15	255	270	540	5,3	5,3
	3	#6,3	2	192	8	200	400	1,0	1,0
	4	#6,3	19	129	2451	6,1	6,1	6,1	6,1
	Total+10%							19,9	19,9
VB122	1	#10	2	12	426	426	852	5,7	5,7
	2	#12,5	2	15	255	270	540	5,3	5,3
	3	#6,3	2	207	8	215	430	1,1	1,1
	4	#6,3	19	129	2451	6,1	6,1	6,1	6,1
	Total+10%							17,8	17,8
VB123	1	#10	2	12	426	426	852	5,7	5,7
	2	#10	2	12	208	220	440	2,8	2,8
	3	#6,3	2	247	8	255	510	1,3	1,3
	4	#6,3	16	129	2322	5,7	5,7	5,7	5,7
	Total+10%							17,8	17,8
VB124	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
	6	#10	2	12	183	195	390	2,4	2,4
	7	#6,3	2	325	325	650	1,6	1,6	1,6
VB125	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB126	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB127	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB128	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB129	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB130	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB131	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB132	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4	#12,5	1	205	205	205	2,0	2,0	2,0
	5	#12,5	2	185	15	210	420	4,1	4,1
VB133	1	#12,5	2	12	660	15	675	1350	13,2
	2	#10	2	12	423	435	870	5,5	5,5
	3	#10	2	290	290	580	3,6	3,6	3,6
	4								

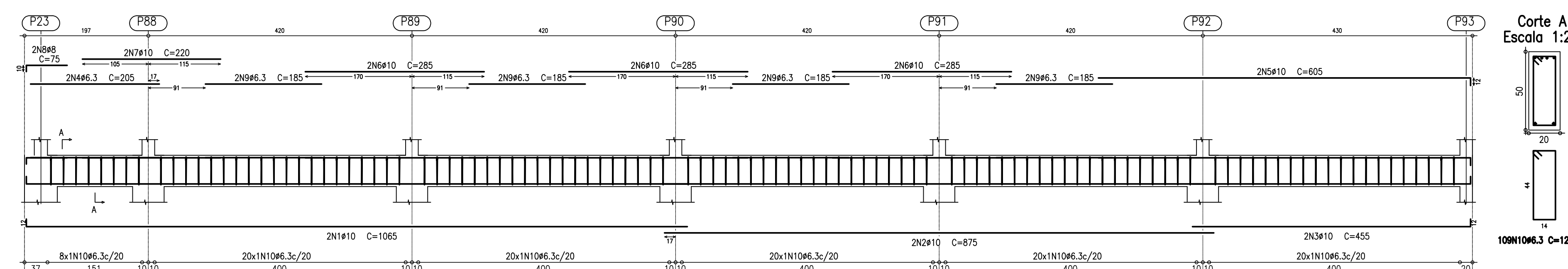
VB10
Escala 1:50



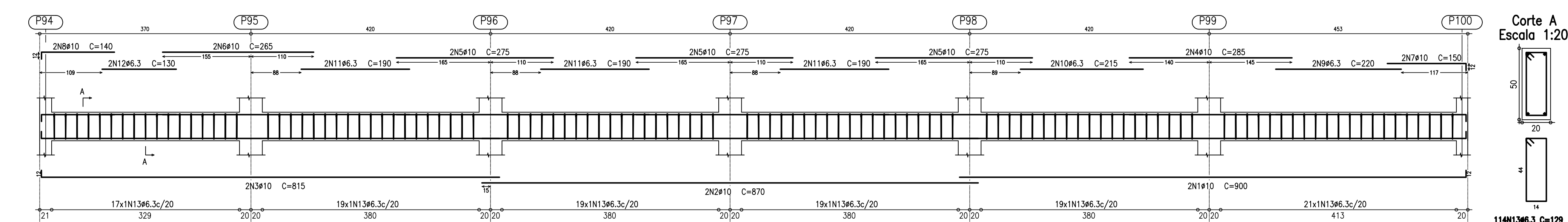
VB11
Escala 1:50



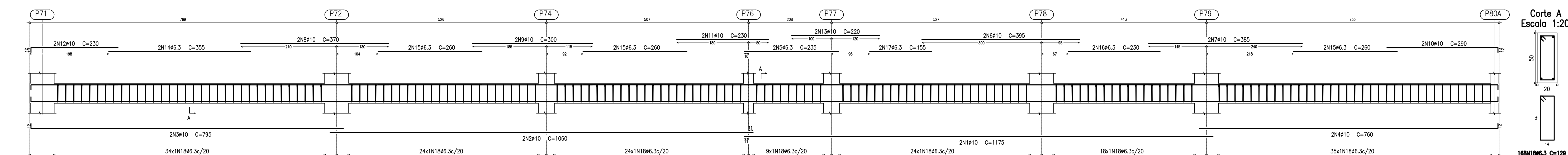
VB12
Escala 1:50



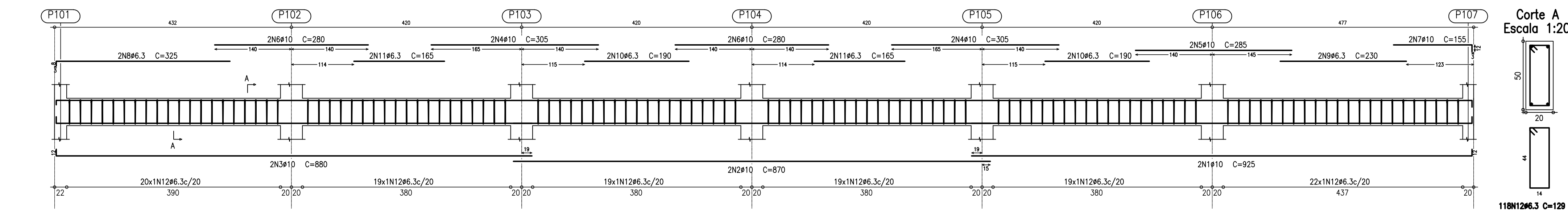
VB13
Escala 1:50



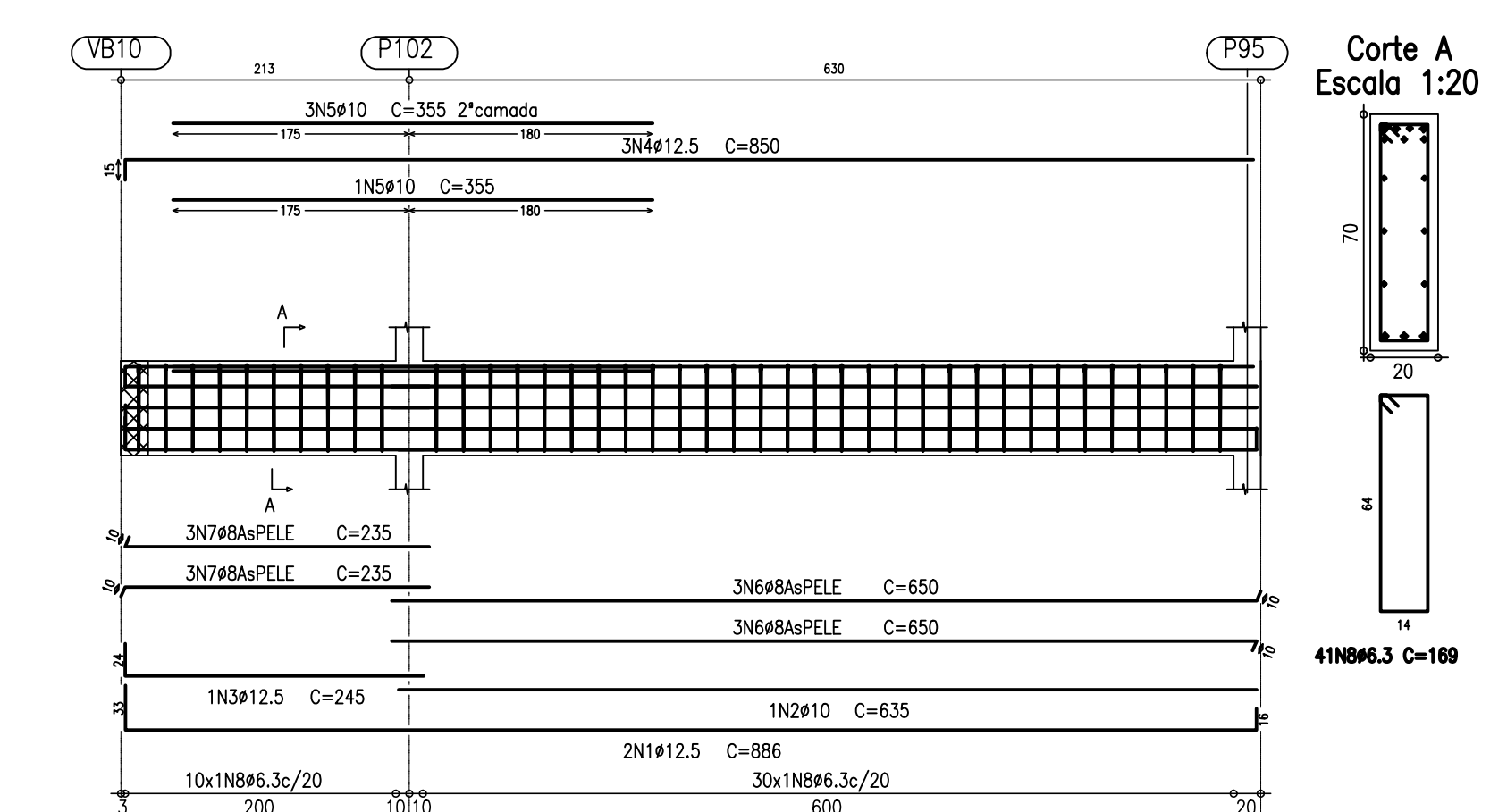
VB14
Escala 1:50



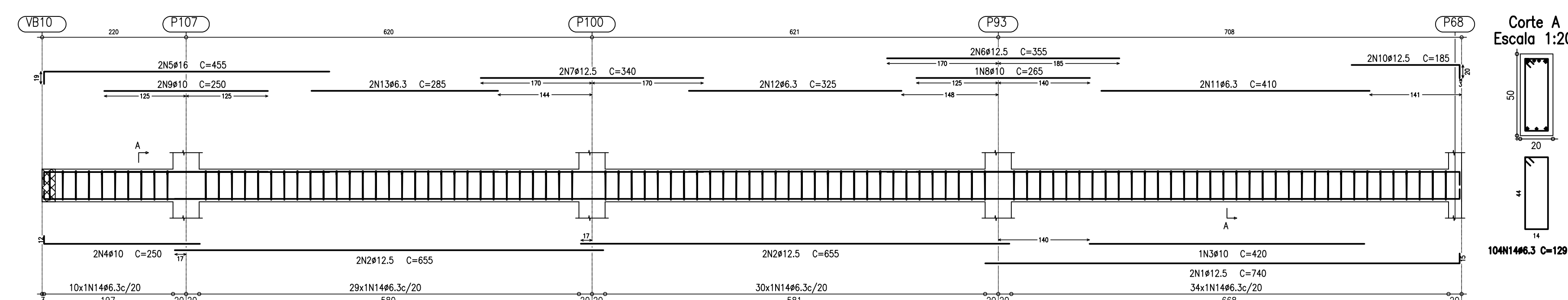
VB16
Escala 1:50



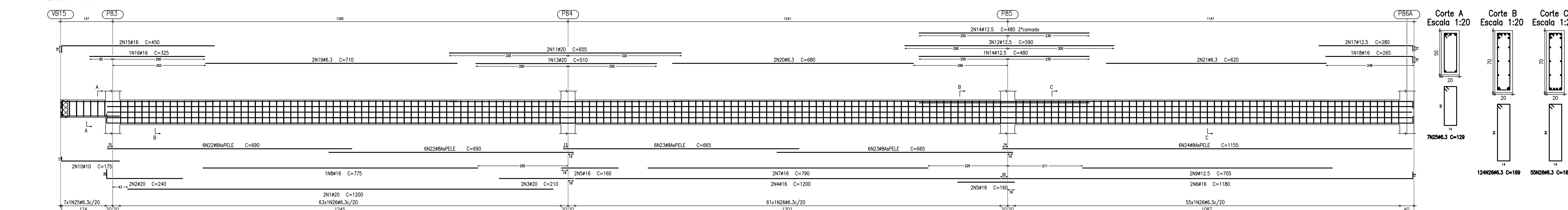
VB19
Escala 1:50



VB24
Escala 1:50



VB17
Escala 1:50



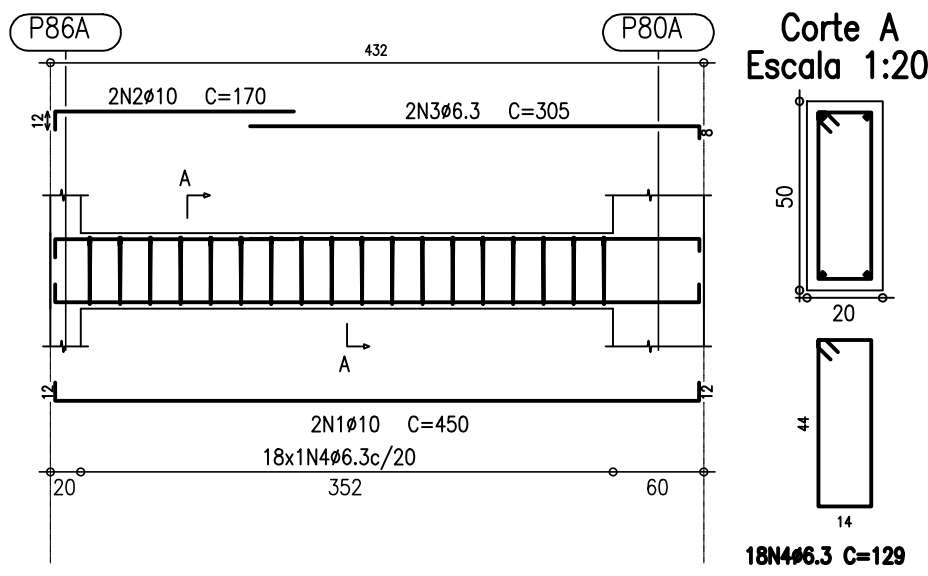
NOTAS:
1. CONCRETO fck 30MPa.
2. MEDIDAS EM CENTIMETROS.
3. COBERTURA PARA BLOCOS E BALDRAMES: 4,0cm.
4. NÍVEL DE REFERÊNCIA VER PROJETO DE ARQUITETURA.
5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

Elemento	Pos.	Diâm.	Q	Dob.	Rela (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A	CA-60-B	
VB10	1	#10	2		1190	1190		2380	14.9		
	2	#10	2		875	875		1750	11.0		
	3	#10	2		870	870		1740	10.9		
	4	#12.5	15		690	690		1035	13.8		
	5	#12.5	3		500	500		750	10.1		
	6	#10	1		390	390		390	2.4		
	7	#6.3	3		345	345		517.5	2.6		
	8	#12.5	3		835	835		1252.5	16.3		
	9	#16	2		555	555		832.5	11.4		
	10	#10	2		485	485		727.5	9.6		
	11	#10	2		255	255		382.5	5.1		
	12	#10	4		250	250		1000	6.3		
	13	#12.5	15		240	240		435	5.8		
	14	#10	2		230	230		345	4.5		
	15	#12.5	3	15	200	200		300	4.0		
	16	#10	1		160	160		160	1.0		
	17	#10	2		113	113		125	2.5		
	18	#6.3	2		340	340		510	6.7		
	19	#6.3	2		310	310		465	6.2		
	20	#6.3	2		210	210		315	4.1		
	21	#6.3	2		370	370		555	7.4		
	22	#6.3	2		315	315		472.5	6.2		
	23	#6.3	192					129	24768	61.2	
Total+10R:									217.8		
VB11	1	#10	2		888	888		1332	17.8		
	2	#10	2		383	383		574.5	7.6		
	3	#10	2		275	275		412.5	5.4		
	4	#10	2		265	265		397.5	5.3		
	5	#10	2		158	158		237	3.1		
	6	#10	2		123	123		184.5	2.4		
	7	#6.3	2		210	210		315	4.1		
	8	#6.3	2		185	185		277.5	3.7		
	9	#6.3	2		170	170		255	3.4		
	10	#6.3	56					129	2224	17.3	
Total+10R:									52.4		
VB12	1	#10	2		1053	1053		1579.5	20.9		
	2	#10	2		875	875		1312.5	17.5		
	3	#10	2		443	443		664.5	8.9		
	4	#6.3	3		250	250		375	5.0		
	5	#10	2		593	593		889.5	11.8		
	6	#10	6		285	285		427.5	5.7		
	7	#10	2		220	220		330	4.4		
	8	#8	2		65	65		97.5	1.3		
	9	#6.3	8		165	165		247.5	3.3		
	10	#6.3	108					129	1932	25.5	
Total+10R:									100.1		
VB13	1	#10	2		888	888		900	1800	13.1	
	2	#10	2		870	870		870	1740	10.9	
	3	#10	2		803	803		815	1630	10.2	
	4	#10	2		285	285		285	570	3.9	
	5	#10	6		275	275		275	1650	10.4	
	6	#10	2		265	265		265	530	3.9	
	7	#10	2		138	138		150	300	1.9	
	8	#10	2		128	146		146	290	1.8	
	9	#6.3	2		220	220		220	440	1.1	
	10	#6.3	2		215	215		215	430	1.1	
	11	#6.3	6		190	190		190	380	1.8	
	12	#6.3	2		130	130		130	260	0.8	
	13	#6.3	114					129	14706	36.4	
Total+10R:									106.8		
VB14	1	#10	2		1175	1175		1175	2350	14.8	
	2	#10	2		1060	1060		1060	2120	13.3	
	3	#10	2		783	783		795	1590	10.9	
	4	#10	2		748	748		748	1520	9.5	
	5	#6.3	2		235	235		235	470	3.0	
	6	#10	2		395	395		395	790	4.8	
	7	#10	2		395	395		395	790	4.8	
	8	#10	2		370	370		370	740	4.6	
	9	#10	2		300	300		300	600	3.7	
	10	#10	2		278	278		280	560	3.6	
	11	#10	2		230	230		230	460	2.9	
	12	#10	2		218	218		218	436	2.7	
	13	#10	2		220	220		220	440	2.8	
	14	#6.3	2		355	355		355	710	4.4	
	15	#6.3	6		260	260		260	520	3.1	
	16	#6.3	2		230	230		230	460	2.8	
	17	#6.3	2		155	155		155	310	1.5	
	18	#6.3	168					129	21672	53.6	
Total+10R:									164.4		
VB16	1	#10	2		913	913		925	1850	11.6	
	2	#10	2		870	870		870	1740	10.9	
	3	#10	2		868	868		868	1736	10.8	
	4	#10	4		395	395		395	790	4.8	
	5	#10	2		285	285		285	570	3.9	
	6	#10	4		280	280		280	560	3.8	
	7	#10	2		143	143		143	286	1.9	
	8	#6.3	2		317	317		325	650	4.0	
	9	#6.3	2		230	230		230	460	1.1	
	10	#6.3	4		190	190		190	380	1.8	
	11	#6.3	4		165	165		165	330	1.6	
Total+10R:									37.6		
VB17	1	#20	2		1200	1200		1200	2400	59.3	
	2	#20	2		214	214		214	428	10.4	
	3	#20	2		210	210		210	420	10.4	
	4	#16	2		1200	1200		1200	2400	59.3	
	5	#16	4		180	180		180	360	10.0	
	6	#16	2		1161	1161		1160	2320	37.1	
	7	#16	2		790	790		790	1580	26.0	
	8	#16	1		775	775		775	1550	25.2	
	9	#12.5	12		705	705		705	1410	22.8	
	10	#10	2		163	163		175	350	2.2	
	11	#20	2		655	655		655	1310	32.5	
	12	#12.5	3		590	590		590	1170	27.4	
	13	#20	1		510	510		510	1020	24.8	
	14	#12.5	19		480	480		480	960	23.1	
	15	#16	2	19	421	450		450	900	21.5	
	16	#16	1		325	325		325	650	15.5	
17	#12.5	2		265	265		265	530	12.2		
18	#16	1		246	246		246	492	11.6		
19	#6.3	2		710	710		710	1420	35.1		
20	#6.3	2		680	680		680	1360	34.0		
21	#6.3	2		620	620		620	1240	31.0		
22	#8	12		690	690		690	1380	34.0		
23	#8	12		665	665		665	1330	33.0		
24	#8	6		1155	1155		1155	2310	57.2		
25	#6.3	7		1155	1155		1155	2310	57.2		
26	#6.3	179					169	30251	74.8		
Total+10R:									553.1		
VB19	1	#12.5	2		33	637		1772	74.4		
	2	#10	1		635	635		635	1270	31.0	
	3	#12.5	1	24	221	245		245	490	2.4	
	4	#12.5	3		835	835		835	1670	41.7	
	5	#10	4		355	355		355	710	8.9	
	6	#8	6		640	640		640	1280	31.5	
	7	#8	6		225	225		225	450	5.5	
	8	#6.3	40					169	6760	16.7	
Total+10R:									164.7		
VB24	1	#12.5	2		725	15		740	1480	14.5	
	2	#12.5	4		655	655		655	1310	14.1	
	3	#10	1		420	420		420	840	2.6	
	4	#10	2		238	250		250	500	3.1	
	5	#16	2		436	450		450	900	6.7	
	6	#12.5	2		355	355		355	710	6.7	
	7	#12.5	2		340	340		340	680	7.1	
	8	#10	1		265	265		265	530	3.7	
	9	#10	2		250	250		250	500	3.0	
	10	#12.5	2		165	185		185	370	2.4	
	11	#6.3	2		410	410		410	820	20.0	
	12	#6.3	2		325	325		325	650	16.1	
	13	#6.3	2		285	285		285	570	14.4	
	14	#6.3	103					129	15267	37.9	
Total+10R:									132.2		
									#6.3:	465.4	0.0
									#8:	123.7	0.0
									#10:	364.1	0.0
									#12.5:	2220.0	0.0
									#16:	194.5	0.0
									Total:	1527.0	0.0



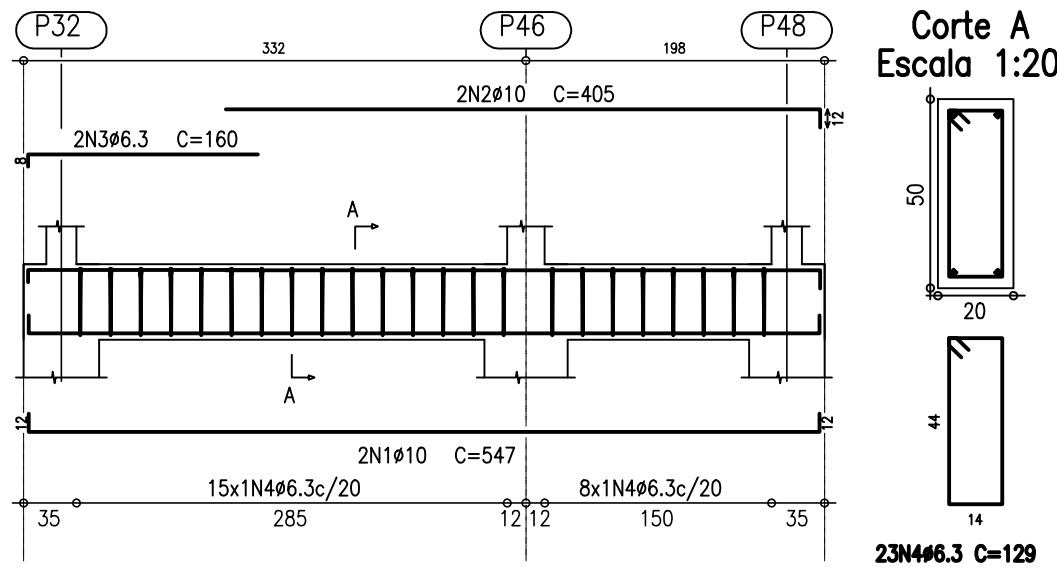
VB36

Escala 1:50



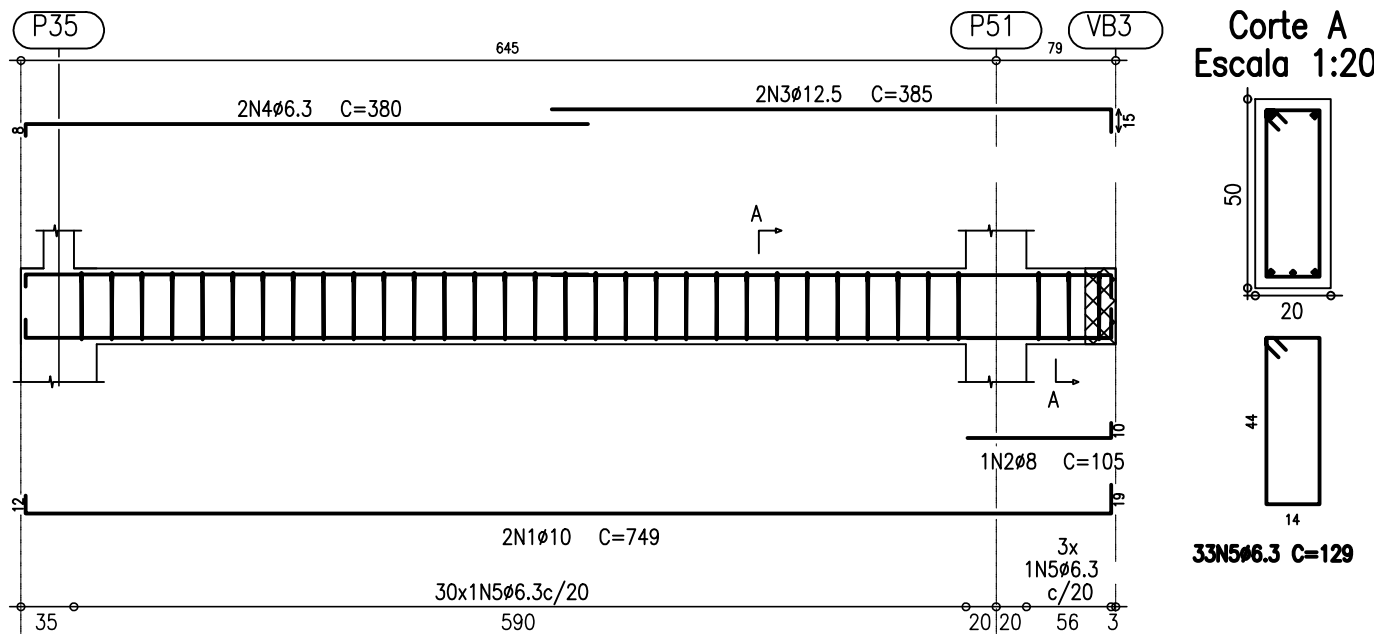
VB38

Escala 1:50



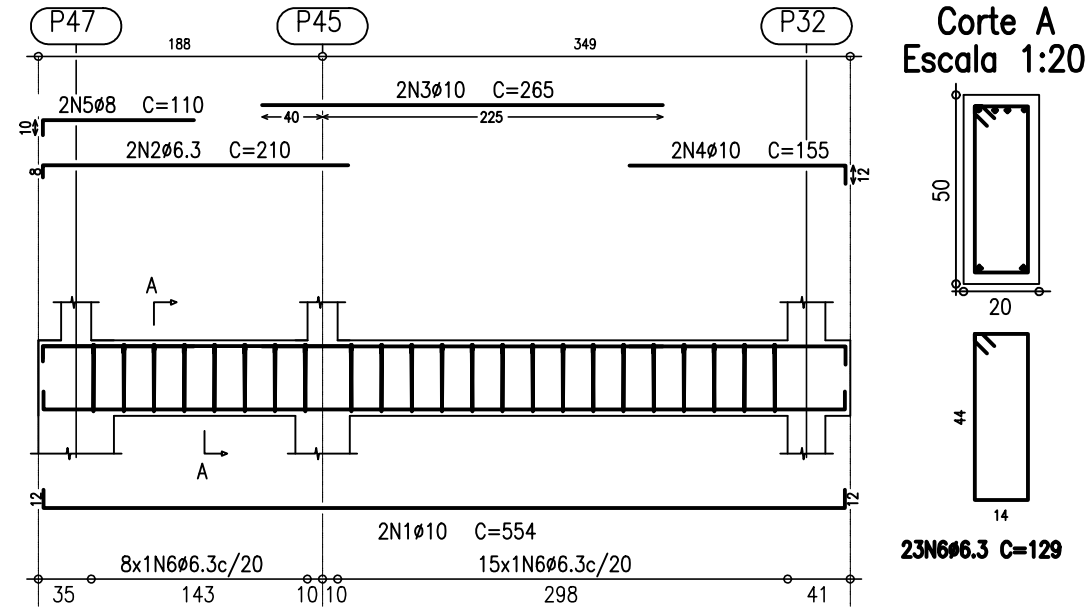
VB42

Escala 1:50



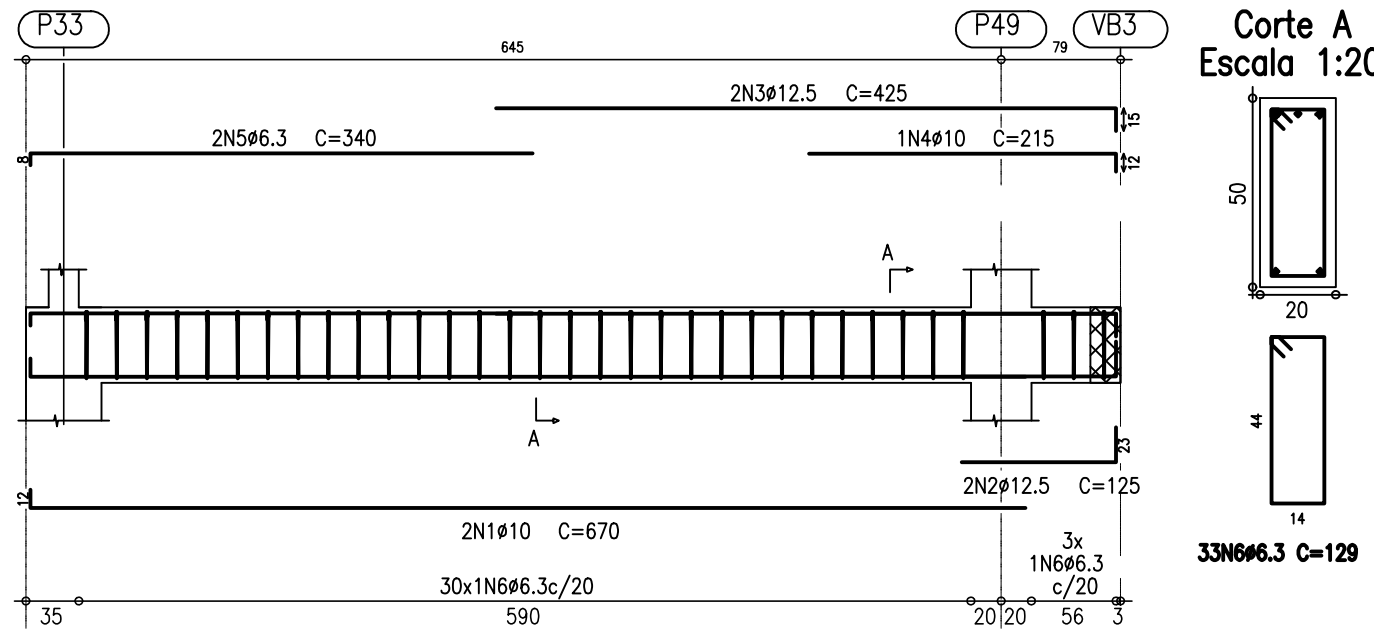
VB37

Escala 1:50



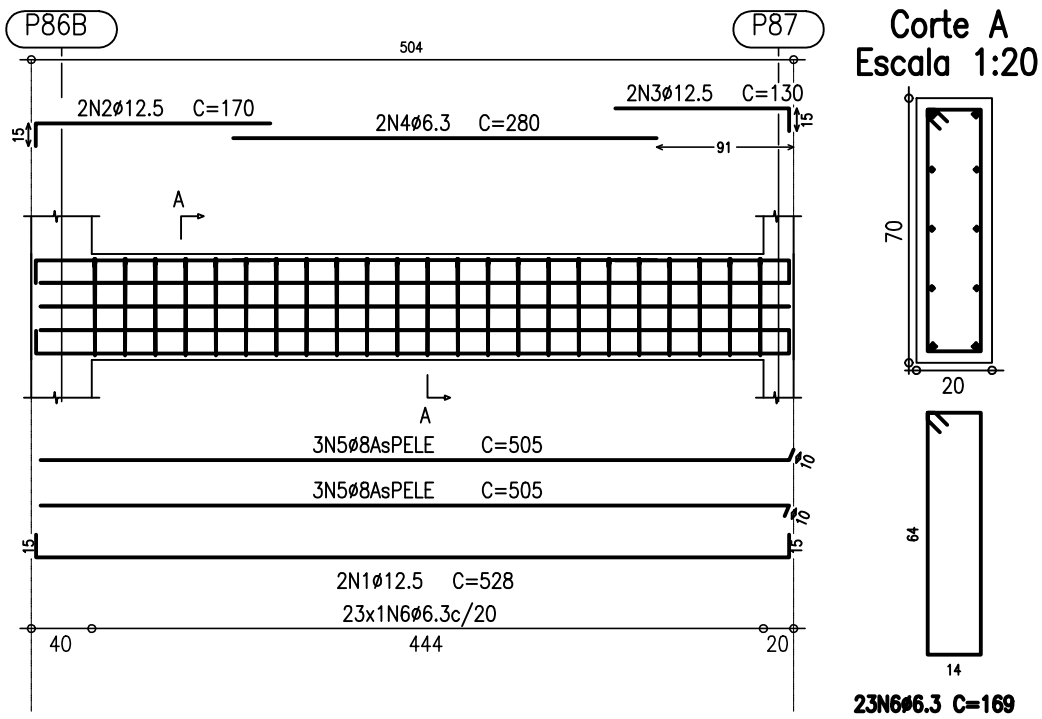
VB40

Escala 1:50



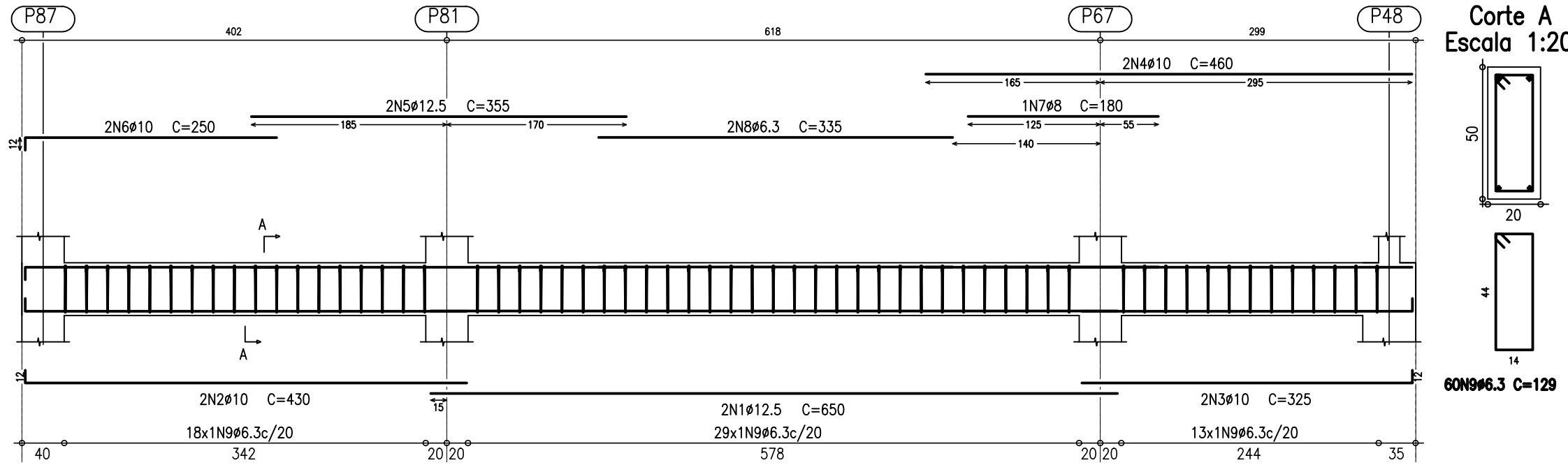
VB18

Escala 1:50



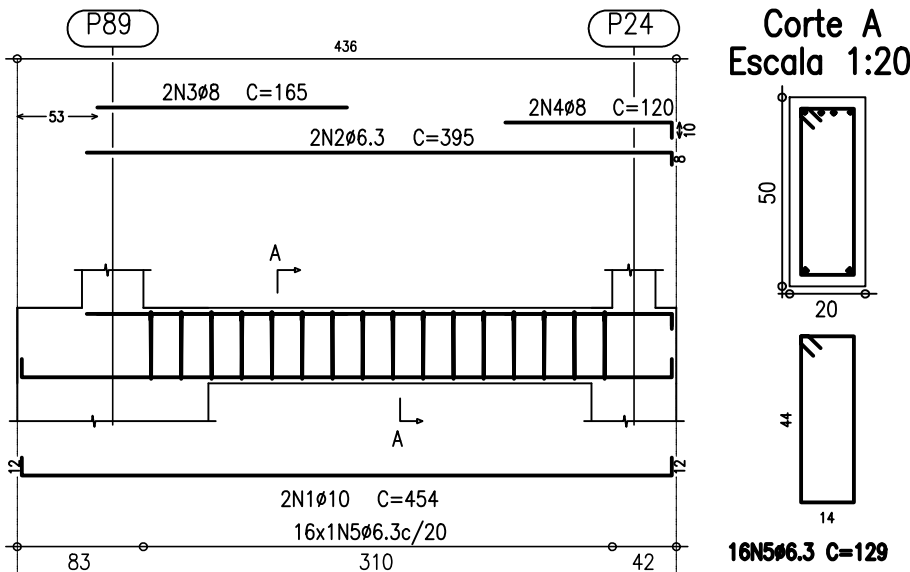
VB39

Escala 1:50



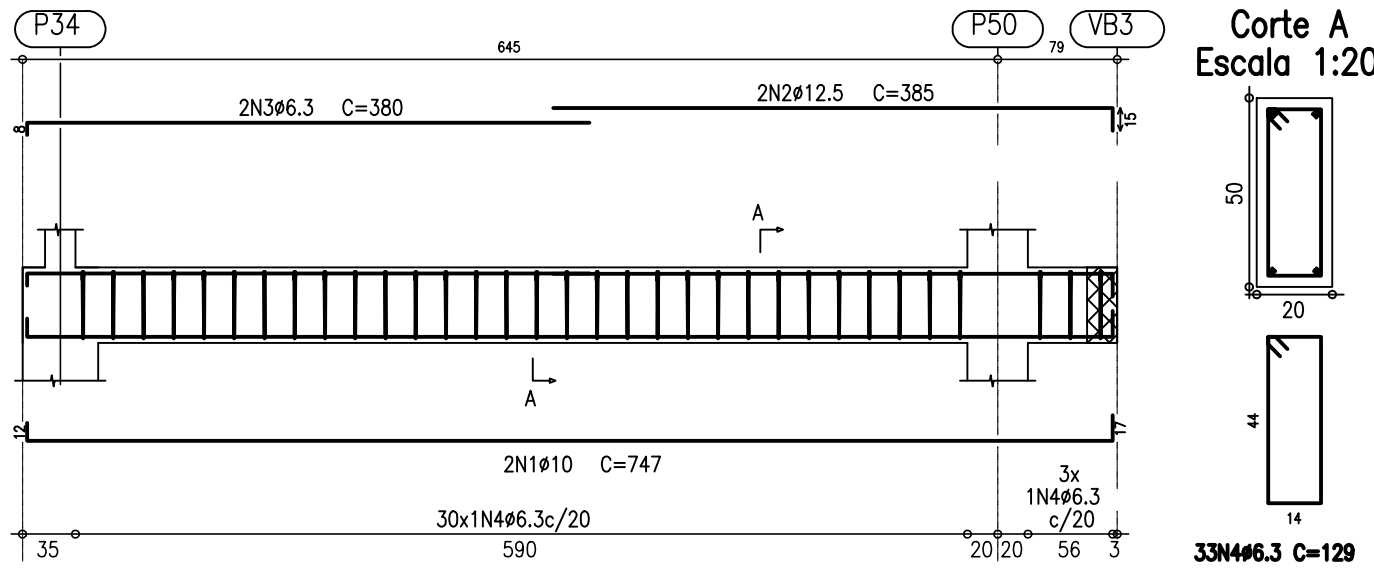
VB20

Escala 1:50



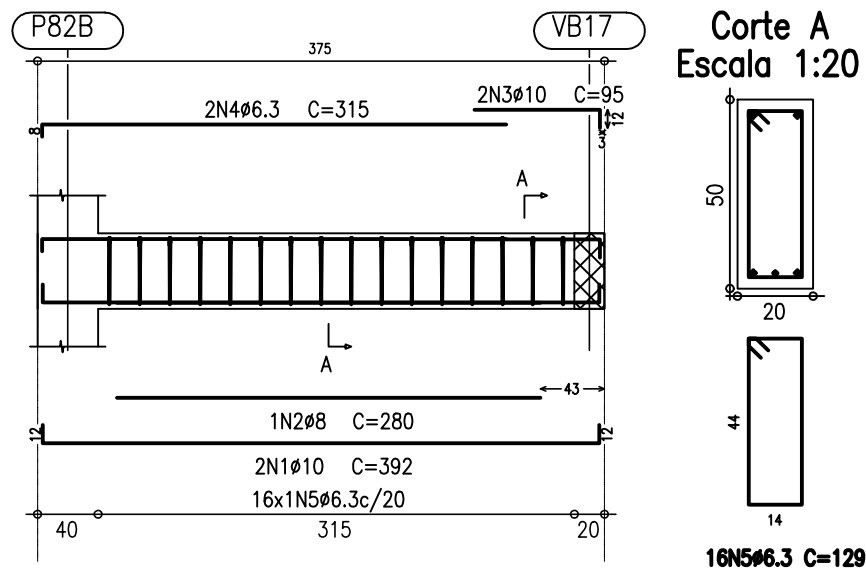
VB41

Escala 1:50



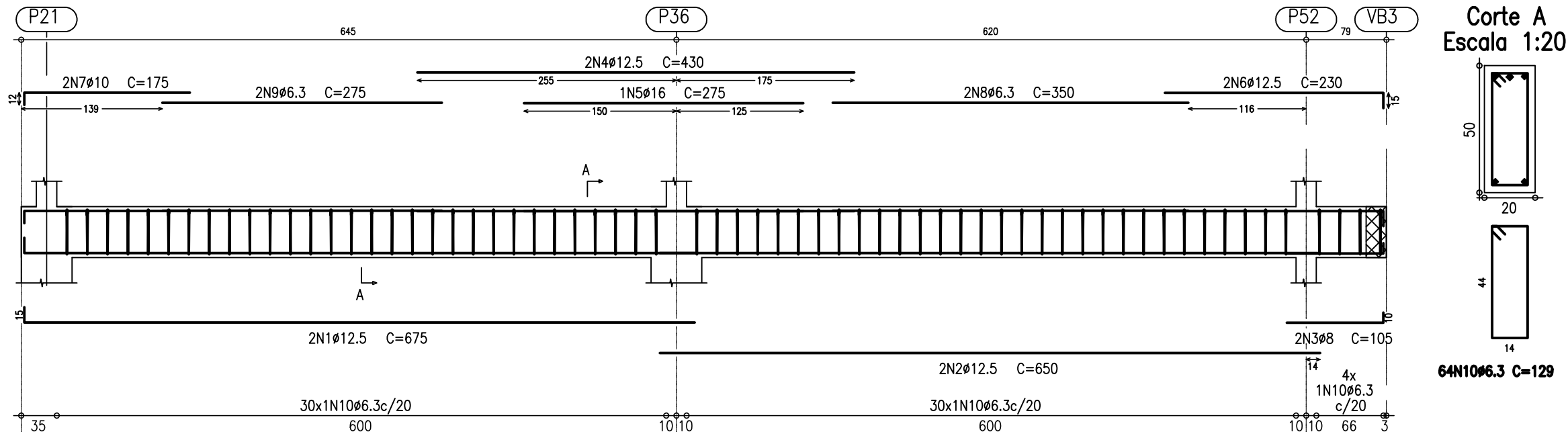
VB15

Escala 1:50



VB43

Escala 1:50



NOTAS:

1. CONCRETO fck 30MPa.
2. MEDIDAS EM CENTÍMETROS.
3. COBRIMENTO PARA BLOCOS E BALDRAMES: 4,0cm.
4. NÍVEL DE REFERÊNCIA: VER PROJETO DE ARQUITETURA
5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

Elemento	Pos.	Diarm.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
VB36	1	ø10	2	12	426	12	450	900	5.7	
	2	ø10	2	12	158	8	170	340	2.1	
	3	ø6.3	2	8	297	8	305	610	1.5	
	4	ø6.3	18				129	2322	5.7	
Total+10%:									16.5	
VB37	1	ø10	2	12	530	12	554	1108	7.0	
	2	ø6.3	2	8	265		265	530	3.3	
	3	ø10	2	8	143	12	155	310	1.9	
	4	ø8	2	10	100		110	220	0.9	
	5	ø6.3	23				129	2967	7.3	
	Total+10%:								23.5	
VB38	1	ø10	2	12	523	12	547	1094	6.9	
	2	ø10	2	8	152		405	810	5.1	
	3	ø6.3	2	8			160	320	0.8	
	4	ø6.3	23				129	2967	7.3	
Total+10%:									22.1	
VB39	1	ø12.5	2	12	650		650	1300	12.8	
	2	ø10	2	12	418		430	860	5.4	
	3	ø10	2	8	313	12	325	650	4.1	
	4	ø10	2	8	355		460	920	5.8	
	5	ø12.5	2				355	710	7.0	
	6	ø10	2	12	238		250	500	3.1	
	7	ø8	1	180			180	180	0.7	
	8	ø6.3	2		335		335	670	1.7	
	9	ø6.3	60				129	7740	19.1	
Total+10%:									65.7	
VB40	1	ø10	2	12	658		670	1340	8.4	
	2	ø12.5	2	12	425	23	125	550	2.5	
	3	ø12.5	2	8	410	15	425	850	8.3	
	4	ø10	1	203			215	215	1.4	
	5	ø6.3	2	8	332		340	680	1.7	
	6	ø6.3	33				129	4257	10.5	
Total+10%:									36.1	
VB41	1	ø10	2	12	718	17	747	1494	9.4	
	2	ø10	2	8	370	15	385	770	7.6	
	3	ø6.3	2	8	372		380	760	1.9	
	4	ø6.3	33				129	4257	10.5	
Total+10%:									32.3	
VB42	1	ø10	2	12	718	19	749	1498	9.4	
	2	ø8	1	95	10	105	105	105	0.4	
	3	ø12.5	2	8	372	15	385	770	7.6	
	4	ø6.3	2	8	372		380	760	1.9	
	5	ø6.3	33				129	4257	10.5	
Total+10%:									32.8	
VB43	1	ø12.5	2	15	660		675	1350	13.2	
	2	ø12.5	2		650		650	1300	12.8	
	3	ø8	2		95	10	105	210	0.8	
	4	ø12.5	2		430		430	860	8.4	
	5	ø16	1	275			275	275	4.3	
	6	ø12.5	2	215		15	230	460	4.5	
	7	ø10	2	12	163		175	350	2.2	
	8	ø6.3	2		350		350	700	1.7	
	9	ø6.3	2		275		275	550	1.4	
	10	ø6.3	64				129	8256	20.4	
Total+10%:									76.7	
VB18	1	ø12.5	2	15	498	15	528	1056	10.4	
	2	ø12.5	2	15	130	15	170	340	3.3	
	3	ø12.5	2	115			130	260	2.6	
	4	ø6.3	2	280			280	560	1.4	
	5	ø8	6	495		10	505	3030	11.9	
	6	ø6.3	23				169	3887	9.6	
Total+10%:									43.1	
VB15	1	ø10	2	12	368	12	392	784	4.9	
	2	ø8	1	280			280	280	1.1	
	3	ø10	2	8	83	12	95	190	1.2	
	4	ø6.3	2	8	307		315	630	1.6	
	5	ø6.3	16				129	2064	5.1	
Total+10%:									15.3	
VB20	1	ø10	2	12	430	12	454	908	5.7	
	2	ø6.3	2		387	8	395	790	2.0	
	3	ø8	2		165		165	330	1.3	
	4	ø8	2		110	10	120	240	0.9	
	5	ø6.3	16				129	2064	5.1	
Total+10%:									16.5	
									ø6.3: 142.8	0.0
									ø8: 19.8	0.0
									ø10: 102.2	0.0
									ø12.5: 111.1	0.0
									ø16: 4.7	0.0
									Total: 380.6	0.0

REALIZAÇÃO



PROJETO

TEA DIADEMA

LOCAL

RUA MANOEL DA NÓBREGA, 889 - CENTRO - DIADEMA/SP

FASE DO PROJETO

Projeto Executivo

TÍTULO

ARMAÇÕES BALDRAMES - NÍVEL INTERMEDIÁRIO - 3ª PARTE

ÁREA TÉCNICA

Estrutura

DATA

NOV/2025

REVISÃO

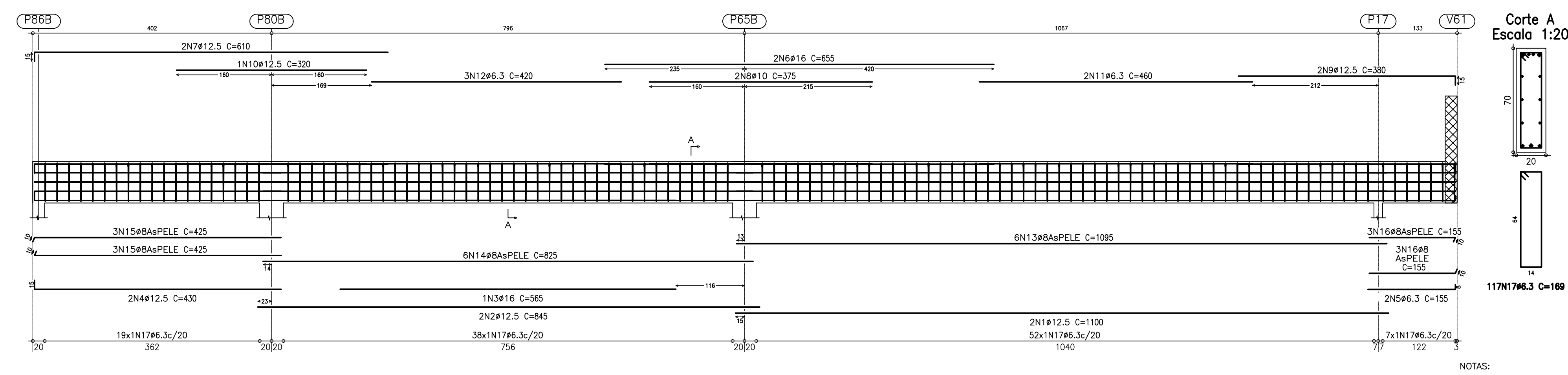
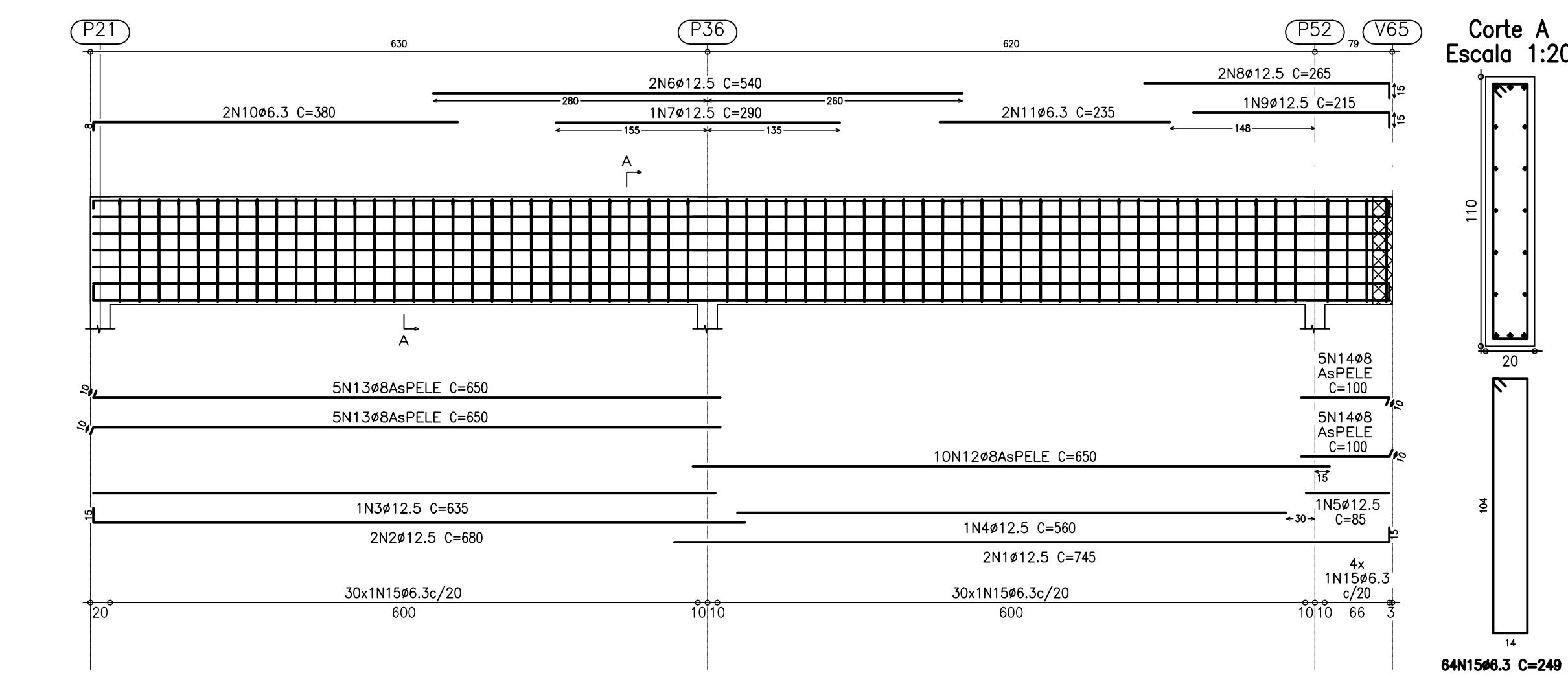
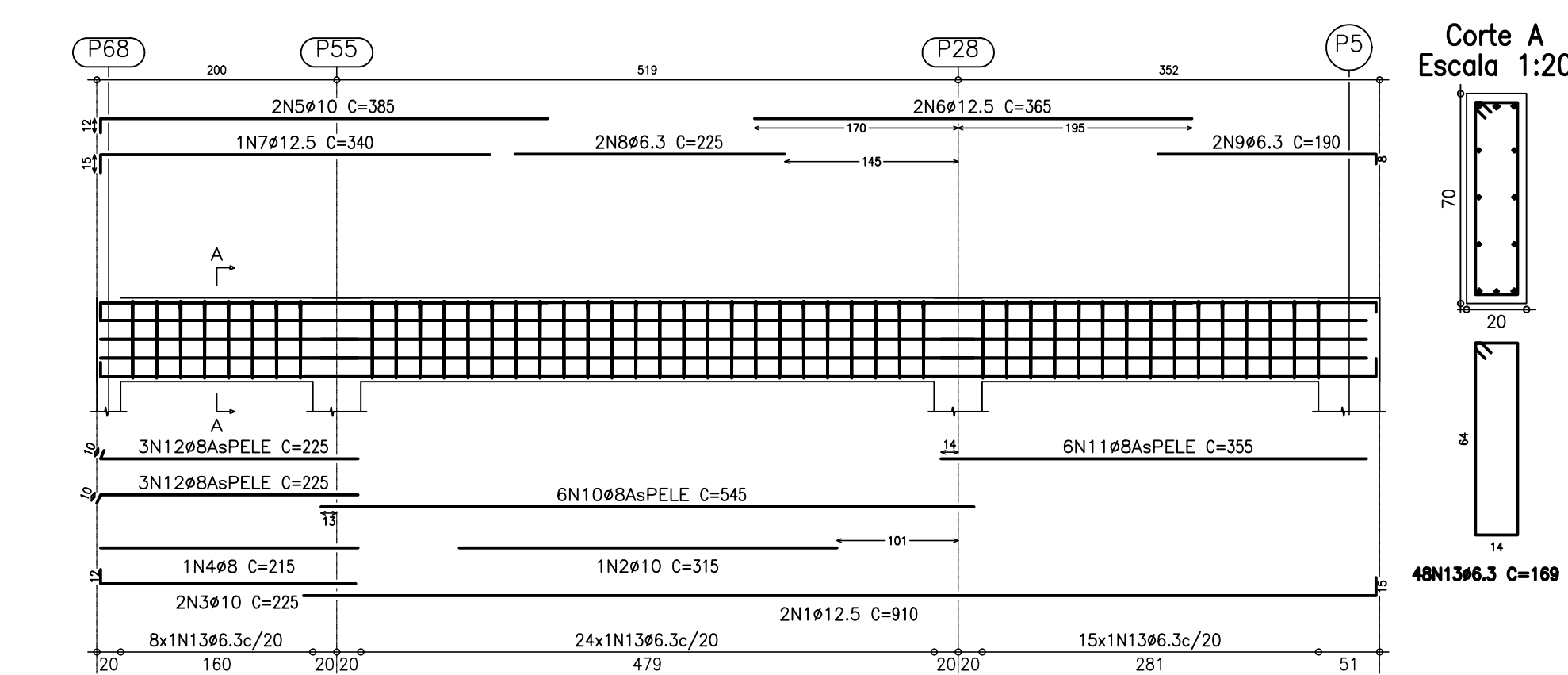
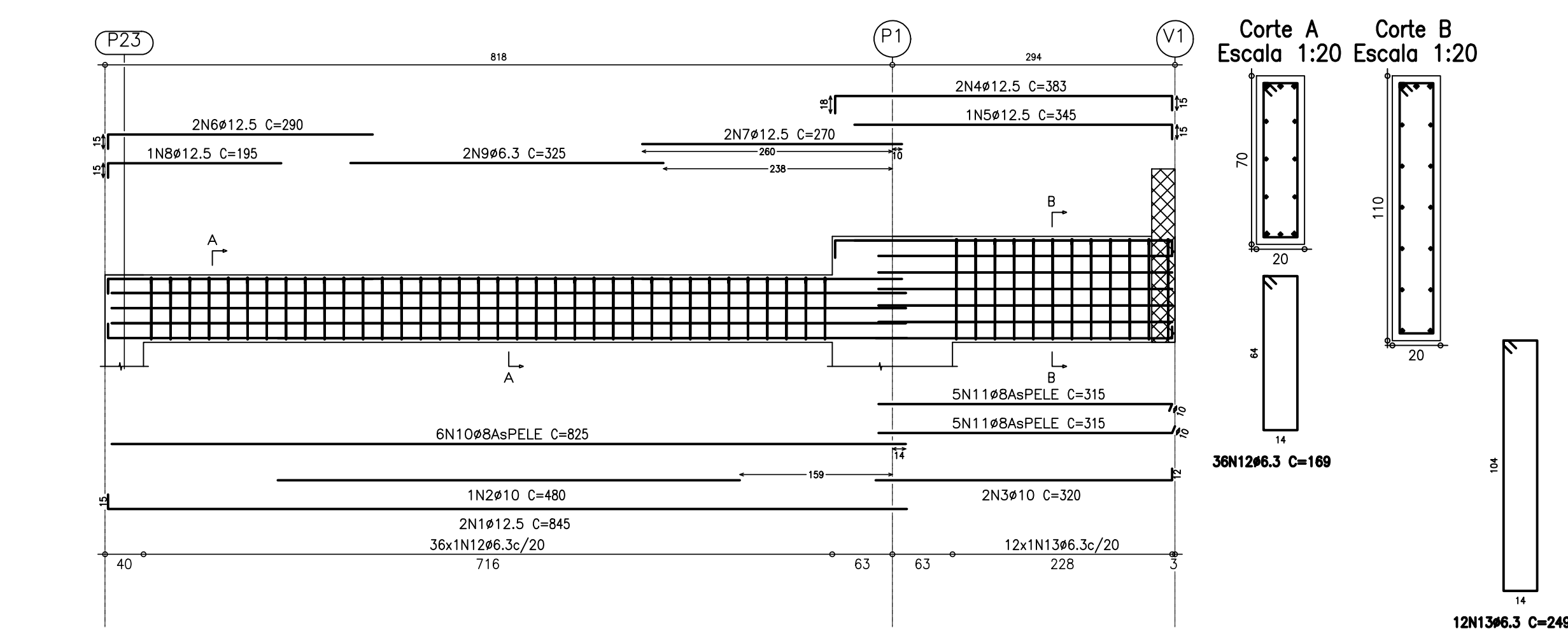
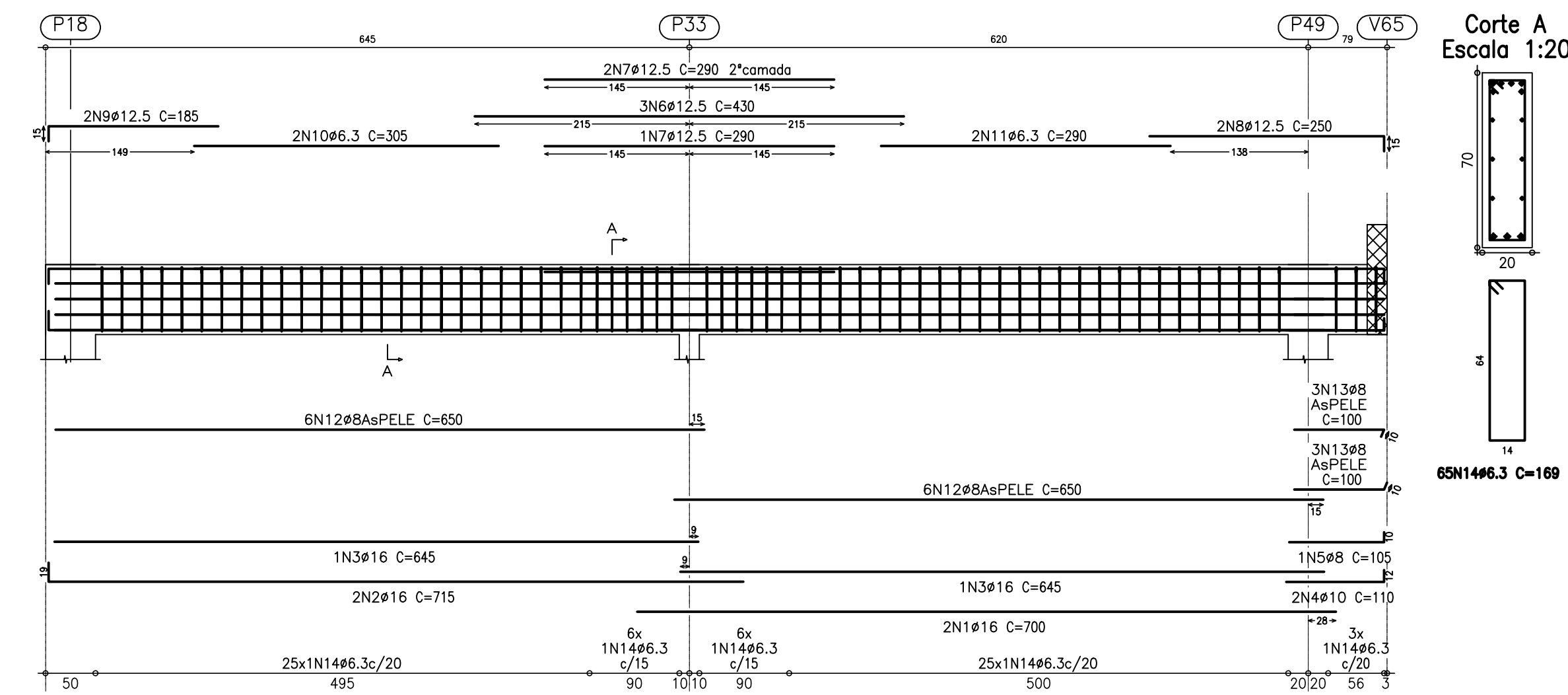
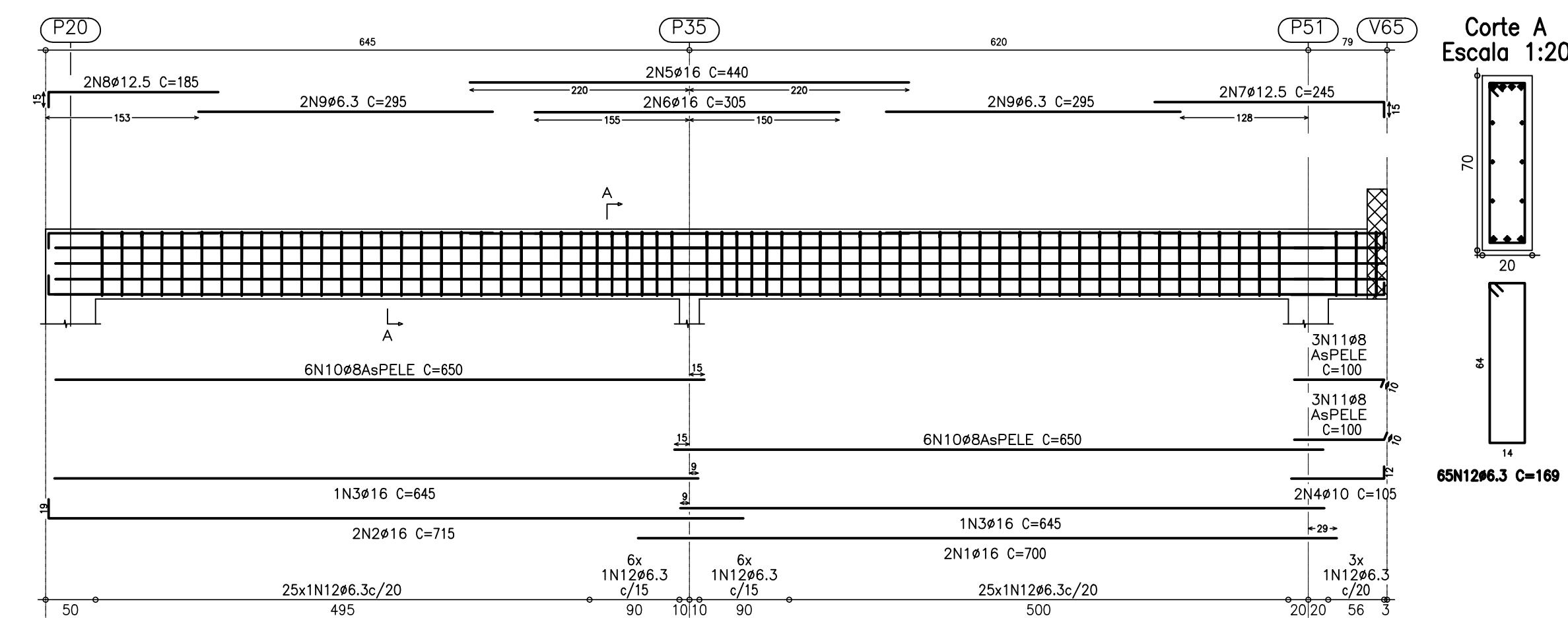
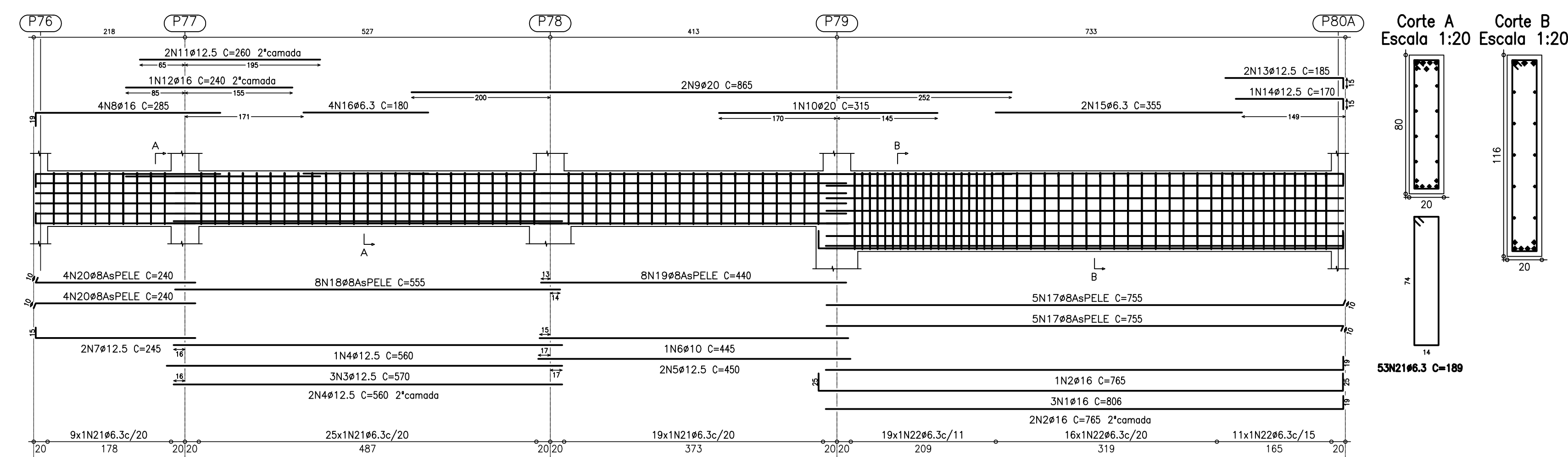
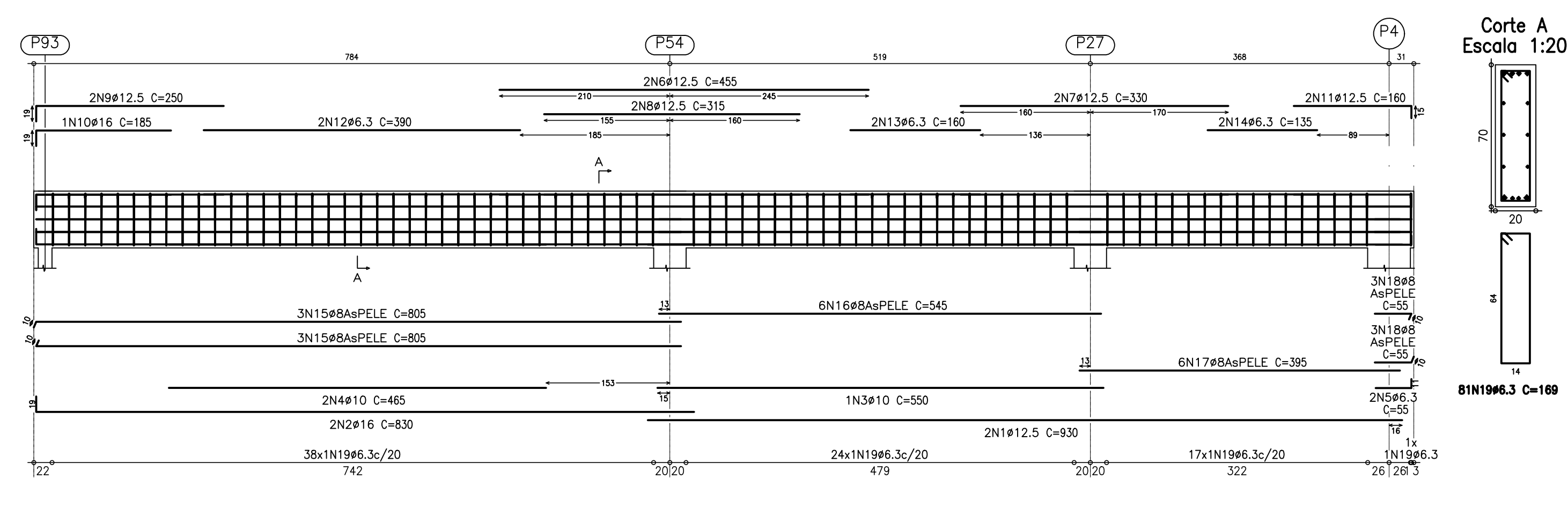
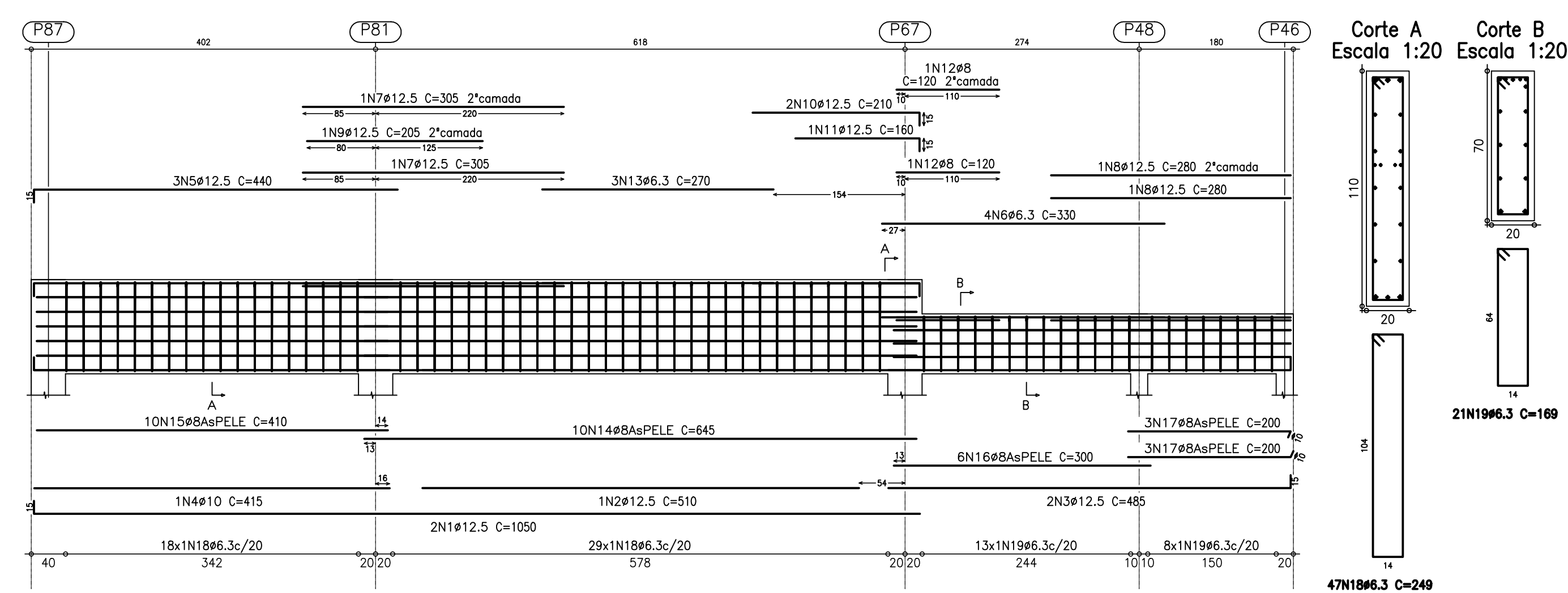
R01

ESCALA

INDICADA

FOLHA Nº

FL-16



1. CONCRETO fck 30MPa.
2. MEDIDAS EM CENTIMETROS.
3. COBRIMENTO PARA BLOCOS E BALDRAMES: 4,0cm.
4. NÍVEL DE REFERÊNCIA: VER PROJETO DE ARQUITETURA.
5. FUNDAÇÃO DE ACORDO COM PARECER TÉCNICO

Elemento	Pos.	Diam. o	Do	Ret	Do	Comp.	Total	(A-50-A)	(A-60-A)	
			(mm)	(mm)	(mm)	(mm)	(mm)	(kg)	(kg)	
V2	1	812.5	2	15	1035		1050	2100	20.6	
	2	812.5	3	510			510	1060	10.6	
	3	812.5	4	470	15	485	970	95	9.5	
	4	810	5	415	25	440	870	85	8.5	
	5	812.5	3	425	440	440	1320	130	13	
	6	863	4	330			330	320	3.2	
	7	812.5	2	305	305	305	610	60	6	
	8	812.5	2	280	280	280	560	55	5.5	
	9	812.5	1	205	205	205	410	40	4	
	10	812.5	2	195	15	210	420	41	4.1	
	11	812.5	1	145			145	14	1.4	
	12	86	2	120	120	120	240	23	2.3	
	13	86.3	3	87.5	87.5	87.5	175	17	1.7	
	14	86	10	645	645	6450	253	25.3	2.53	
	15	86	10	410	410	4100	161	16.1	1.61	
	16	86	6	300	300	3000	120	12	1.2	
	17	86	6	190	20	210	420	41	4.1	
	18	86.3	47		249	1170	249	24.9	2.49	
							169	3549	88	
							Total:106K			
V3	1	816	3	25	756	25	807	2415	36.3	
	2	816	3		746	19	765	2295	36.3	
	3	812.5	3	570			570	1160	16.6	
	4	812.5	3	560	560	560	1680	168	16.8	
	5	812.5	4	455			455	910	9.1	
	6	810	1	445	445	445	890	88	8.8	
	7	812.5	2	230	230	245	490	48	4.8	
	8	816	4	286	286	286	572	56	5.6	
	9	820	2	865	865	850	1730	328	32.8	
	10	820	15	315	315	315	630	126	12.6	
	11	812.5	2	260	260	260	520	51	5.1	
	12	816	1	240			240	24	2.4	
	13	812.5	2	170	15	185	370	36	3.6	
	14	812.5	2	155	15	170	340	33	3.3	
	15	86.3	1	350			350	34	3.4	
	16	86.3	4	180	180	180	720	71	7.1	
	17	86	10	740	740	750	2960	296	29.6	
	18	86	8	555	555	555	2220	222	22.2	
19	86	40	440	440	440	1320	132	13.2		
20	86	8	230	240	240	480	47	4.7		
21	86.3	10	100	100	100	200	19	1.9		
22	86.3	10	825	825	825	4950	495	49.5		
23	86.3	36	10	10	10	3150	315	31.5		
24	86.3	36	10	169	169	4084	104	10.4		
25	86.3	12	10	249	249	2498	74	7.4		
							Total:106K			
V10	1	812.5	2		830	930	1860	183	18.3	
	2	810	1	480			480	480	48	
	3	810	2	308	12	320	640	640	64	
	4	812.5	3	300	15	315	630	630	63	
	5	812.5	1	330	15	345	345	345	34.5	
	6	812.5	2	270	15	285	570	570	57	
	7	812.5	2	270	270	270	540	540	54	
	8	812.5	1	180			180	180	18	
	9	86.3	2	325	325	325	650	65	6.5	
	10	86	8	825	825	825	4950	495	49.5	
	11	86	36	10	10	10	3150	315	31.5	
	12	86	36	10	169	169	4084	104	10.4	
	13	86.3	12	10	249	249	2498	74	7.4	
								Total:106K		
	V22	1	812.5	2		830	930	1860	183	18.3
		2	816	1	810			810	810	81
		3	810	1	550	550	550	550	550	55
		4	810	1	465			465	465	46.5
5		86.3	2	44	11	55	110	55	5.5	
6		812.5	4	315			315	315	31.5	
7		812.5	2	330	330	330	660	65	6.5	
8		812.5	2	315	315	315	630	63	6.3	
9		812.5	2	231	231	230	462	46	4.6	
10		816	1	166	165	165	330	33	3.3	
11		812.5	2	140	140	140	280	28	2.8	
12		86.3	2	390	390	390	780	78	7.8	
13		86.3	1	160			160	160	16	
14		86.3	3	125	125	125	250	25	2.5	
15		86	10	790	790	845	3380	338	33.8	
16		86	6	545	545	545	2170	217	21.7	
17		86	6	395	395	395	1580	158	15.8	
18		86	6	5	5	5	30	3	0.3	
19	86.3	80	10	10	10	169	1320	334		
							Total:106K			
V23	1	812.5	2		895	15	910	1820	18.3	
	2	810	1	315	315	315	630	63	6.3	
	3	810	2	213	213	213	426	42	4.2	
	4	86	1	215	215	215	430	43	4.3	
	5	810	2	373	373	373	746	74	7.4	
	6	812.5	2	365	365	365	730	72	7.2	
	7	812.5	1	325	340	340	680	67	6.7	
	8	812.5	2	225	225	225	450	45	4.5	
	9	86.3	2	182	8	190	380	39	3.9	
	10	86	4	545	545	545	2180	218	21.8	
	11	86	6	355	355	355	1410	141	14.1	
	12	86	6	215	225	225	450	45	4.5	
	13	86.3	47		169	169	2434	196	19.6	
								Total:106K		
	V77	1	812.5	2		730	15	745	1490	14.8
		2	812.5	2	15	665	680	1360	133	13.3
		3	812.5	3	540			540	1080	10.8
		4	812.5	1	560	560	560	560	560	56
5		812.5	1	85	85	85	85	85	8.5	
6		812.5	2	540	540	540	1080	108	10.8	
7		812.5	1	290	290	290	580	58	5.8	
8		812.5	2	255	255	255	510	51	5.1	
9		812.5	1	200	200	215	215	21	2.1	
10		86.3	2	373	373	373	746	74	7.4	
11		86.3	2	235	235	240	470	47	4.7	
12		86	10	650	650	650	2625	262	26.2	
13		86	10	640	640	650	2620	262	26.2	
14		86.3	10	90	10	100	100	39	3.9	
15		86.3	64		249	1170	249	24.9	2.49	
							Total:106K			
V76		1	816	2		700	700	1400	22.2	22.2
		2	816	1	696	715	715	1430	22.5	22.5
	3	816	2	645	645	645	1290	20.3	20.3	
	4	810	5	415	415	415	830	13	13	
	5	816	2	440	440	440	880	13.8	13.8	
	6	816	1	305	305	305	610	9.6	9.6	
	7	812.5	2	230	235	245	490	48	4.8	
	8	812.5	2	170	185	370	740	73	7.3	
	9	86.3	4	285	285	285	570	56	5.6	
	10	86	12	650	650	650	2600	260	26	
	11	86	6	60	60	60	120	12	12	
	12	86.3	65	10	10	169	1985	272	27.2	
								Total:106K		
	V74	1	816	2		700	700	1400	22.2	22.2
		2	816	2	696	715	715	1430	22.5	22.5
		3	816	2	645	645	645	1290	20.3	20.3
		4	810	5	415	415	415	830	13	13
		5	816	2	430	430	430	860	13.8	13.8
6		812.5	3	290	290	290	580	58	5.8	
7		812.5	2	230	235	245	490	48	4.8	
8		812.5	2	15	170	185	370	73	7.3	
9		86.3	2	373	373	373	746	74	7.4	
10		86.3	2	290	290	290	580	58	5.8	
11		86.3	2	650	650	650	2600	260	26	
12		86	6	60	60	60	120	12	12	
13		86.3	65	10	10	169	1985	272	27.2	
							Total:106K			
V75		1	816	2		695	695	1390	21.8	21.8
		2	816	2	696	715	715	1430	22.5	22.5
		3	816	1	565	565	565	1130	20.6	20.6
		4	812.5	2	85	105	105	210	8	8
	5	812.5	3	290	290	290	580	58	5.8	
	6	812.5	2	230	235	245	490	48	4.8	
	7	812.5	2	15	160	175	350	34	3.4	
	8	86.3	2	310	310	310	620	61	6.1	
	9	86.3	2	305	305	305	610	60	6	
	10	812.5	2	650	650	650	2600	260	26	
	11	86	6	60	60	60	120	12	12	
	12	86.3	63	90	10	169	1947	263	26.3	
								Total:106K		
	V70	1	812.5	2	1160	1160	1220	2380	238	23.8
		2	812.5	2	845	845	845	1690	166	16.6
		3	816	1	565	565	565	1130	20.6	20.6
		4	812.5	2	415	430	860	860	84	8.4
		5	86.3	2	310	310	310	620	61	6.1
6		816	2	655	655	655	1310	20.6	20.6	
7		812.5	2	595	610	1220	1220	120	12	
8		810	2	375	375	375	750	74	7.4	
9		812.5	2	365	365	380	760	75	7.5	
10		812.5	3	290	290	290	580	58	5.8	
11		86.3	2	440	440	440	880	87	8.7	
12		86.3	3	310	310	310	620	61	6.1	
13		86.3	4	1095	1095	1095	4370	437	43.7	
14		86.3	6	825	825	825	3300	330	33	
15		86	6	415	425	500	1000	100	10	
16		86	6	145	15	160	320	31	3.1	
17		86.3	116		189	1890	445	44.5	4.45	
							Total:106K			
V71	1	812.5	2	15	184	15	214	428	42	
	2	812.5	2	180	180	180	360	36	3.6	
	3	86	6	184	10	204	1224	48	4.8	
	4	86.3	8		169	169	242	33	3.3	
								Total:106K		
								Total:106K		
								Total:106K		
								Total:106K		
								Total:106K		
								Total:106K		
								Total:106K		
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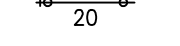
Escala 1:50



Escala 1:50



Y37



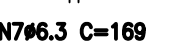
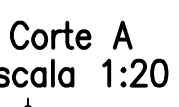
V62



1172



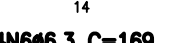
Escala 1:5



V35



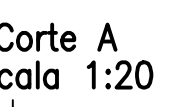
Escala 1:5



V18



Escala 1:50

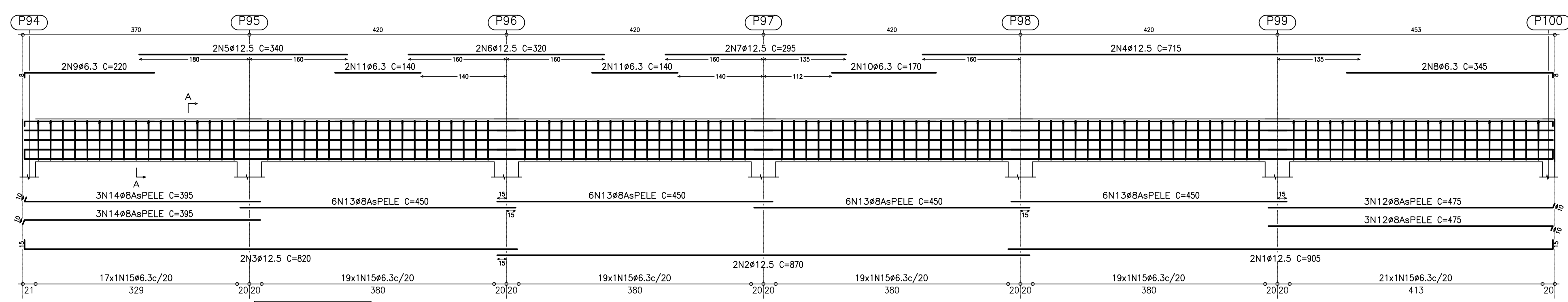


Corte B

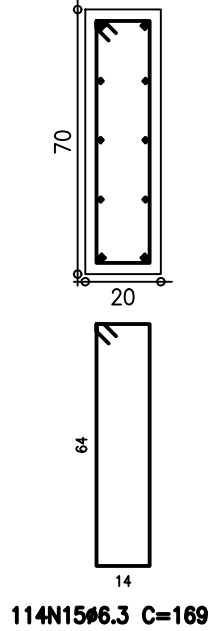


Total: 10%	251.1	
#6.3:	428.4	0.0
#8:	547.3	0.0
#10:	85.1	0.0
#12.5:	575.3	0.0
#16:	89.6	0.0
Total:	1725.7	0.0

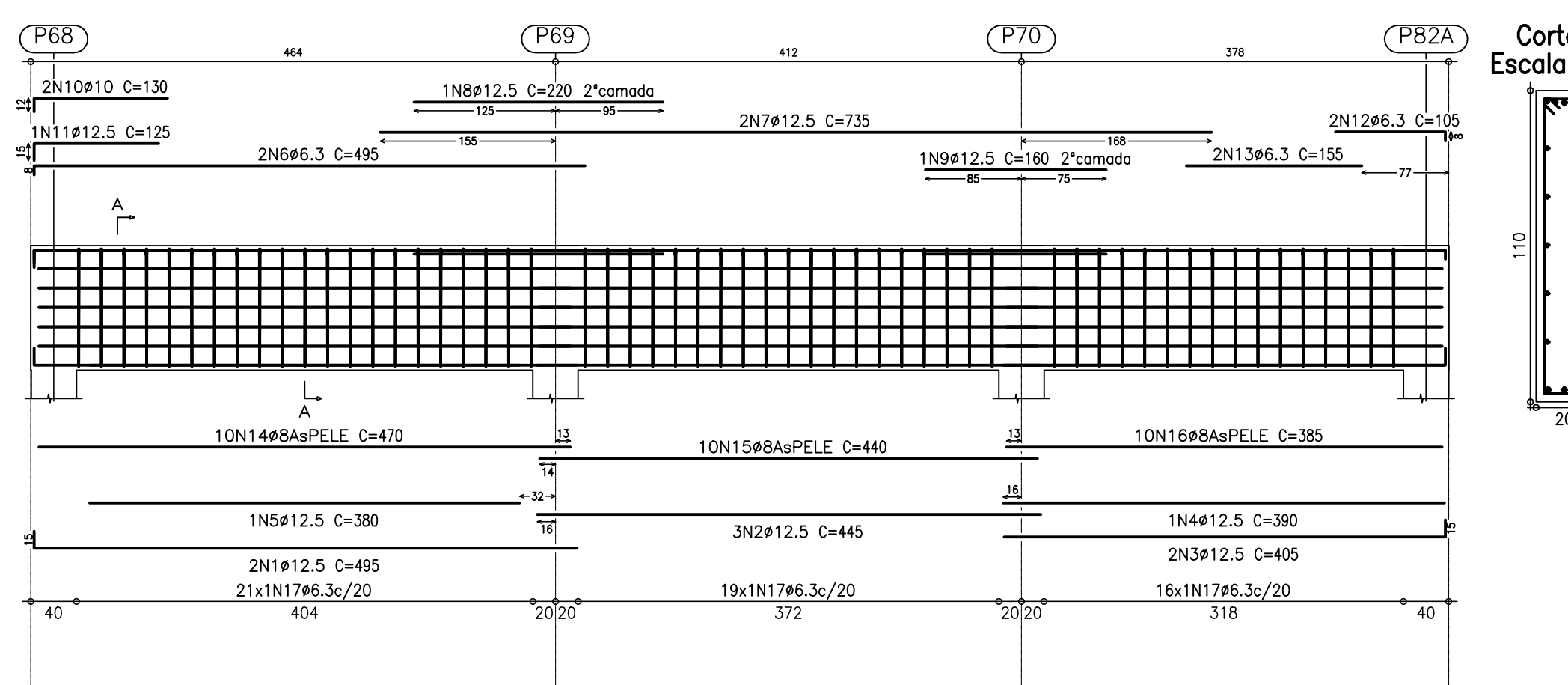
V6
Escala 1:50



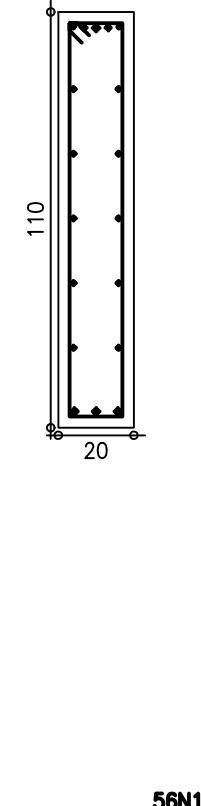
Corte A
Escala 1:20



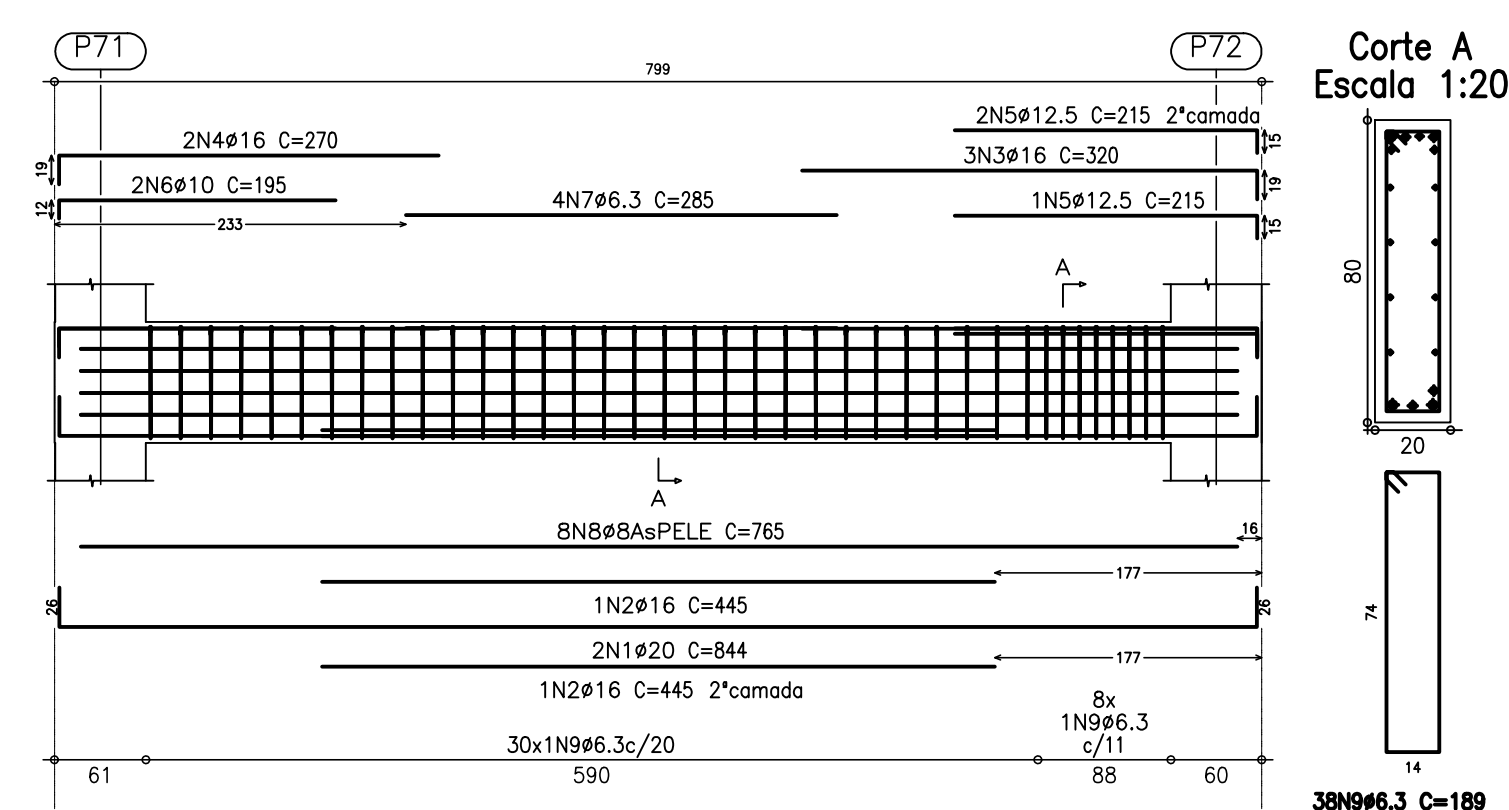
V17A
Escala 1:50



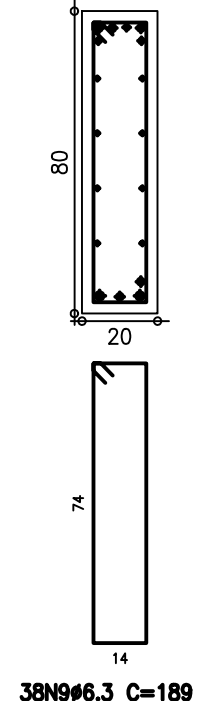
Corte A
Escala 1:20



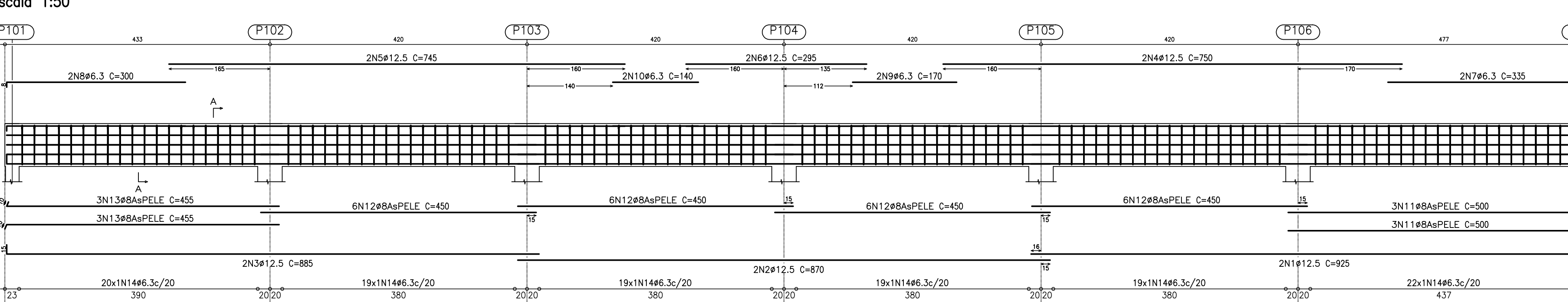
V38
Escala 1:50



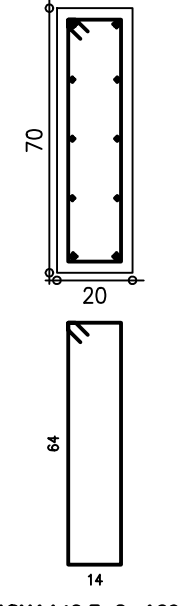
Corte A
Escala 1:20



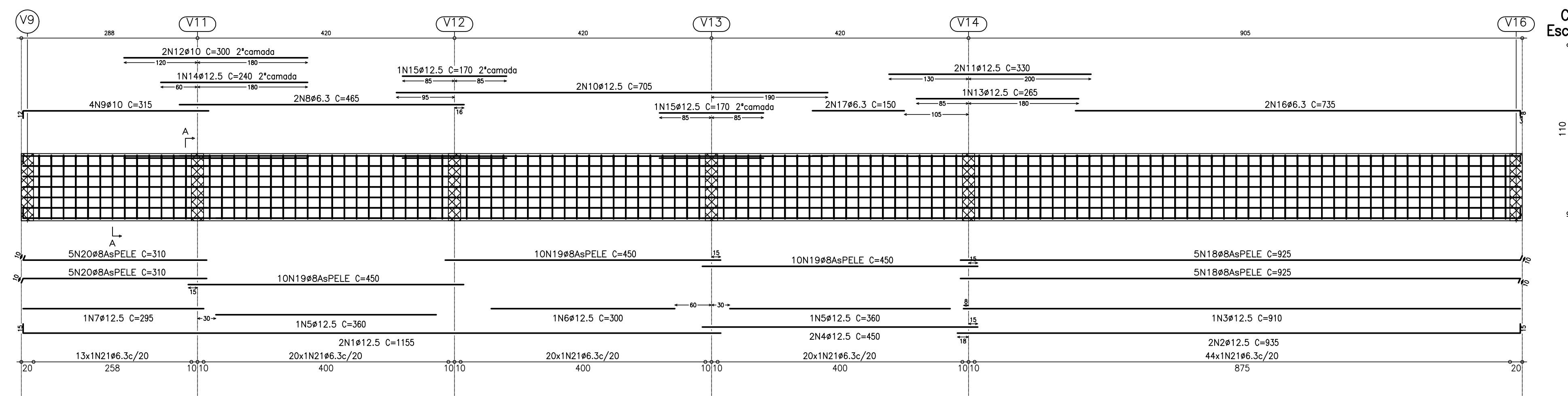
V7
Escala 1:50



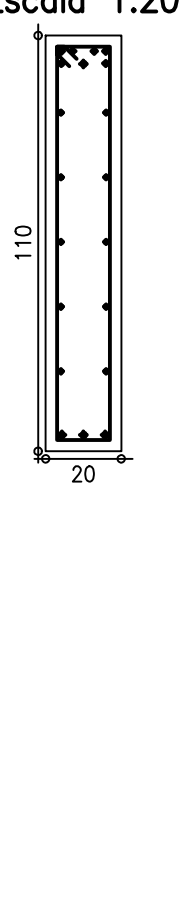
Corte A
Escala 1:20



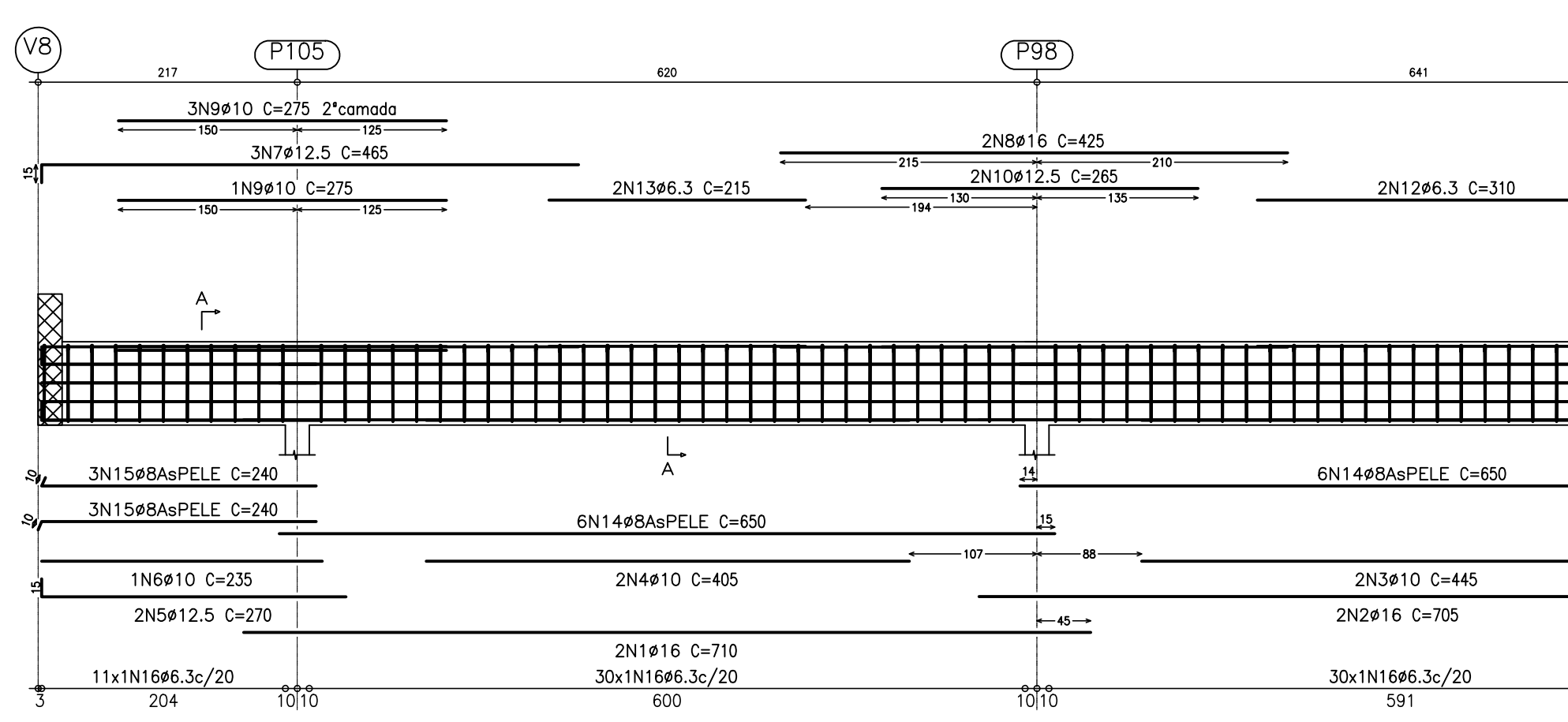
V8
Escala 1:50



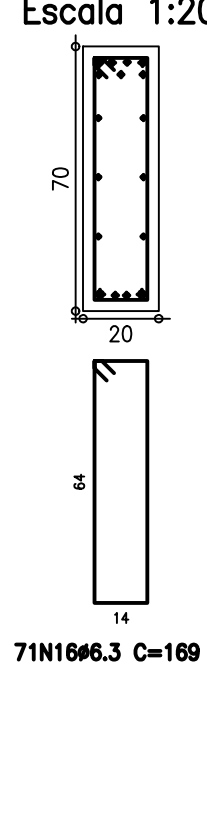
Corte A
Escala 1:20



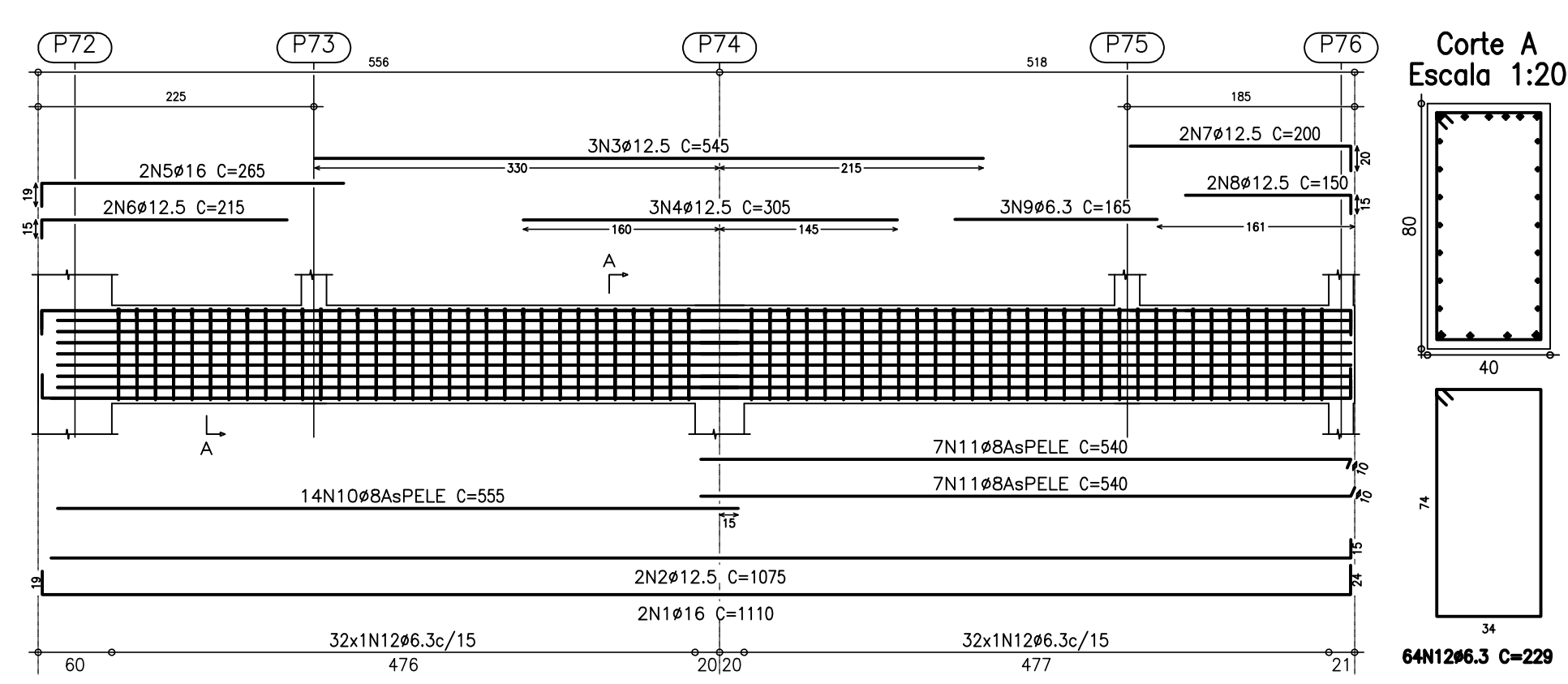
V14
Escala 1:50



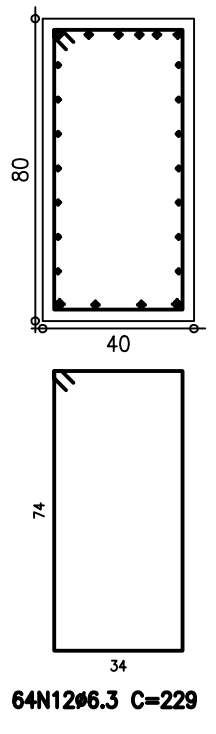
Corte A
Escala 1:20



V39
Escala 1:50

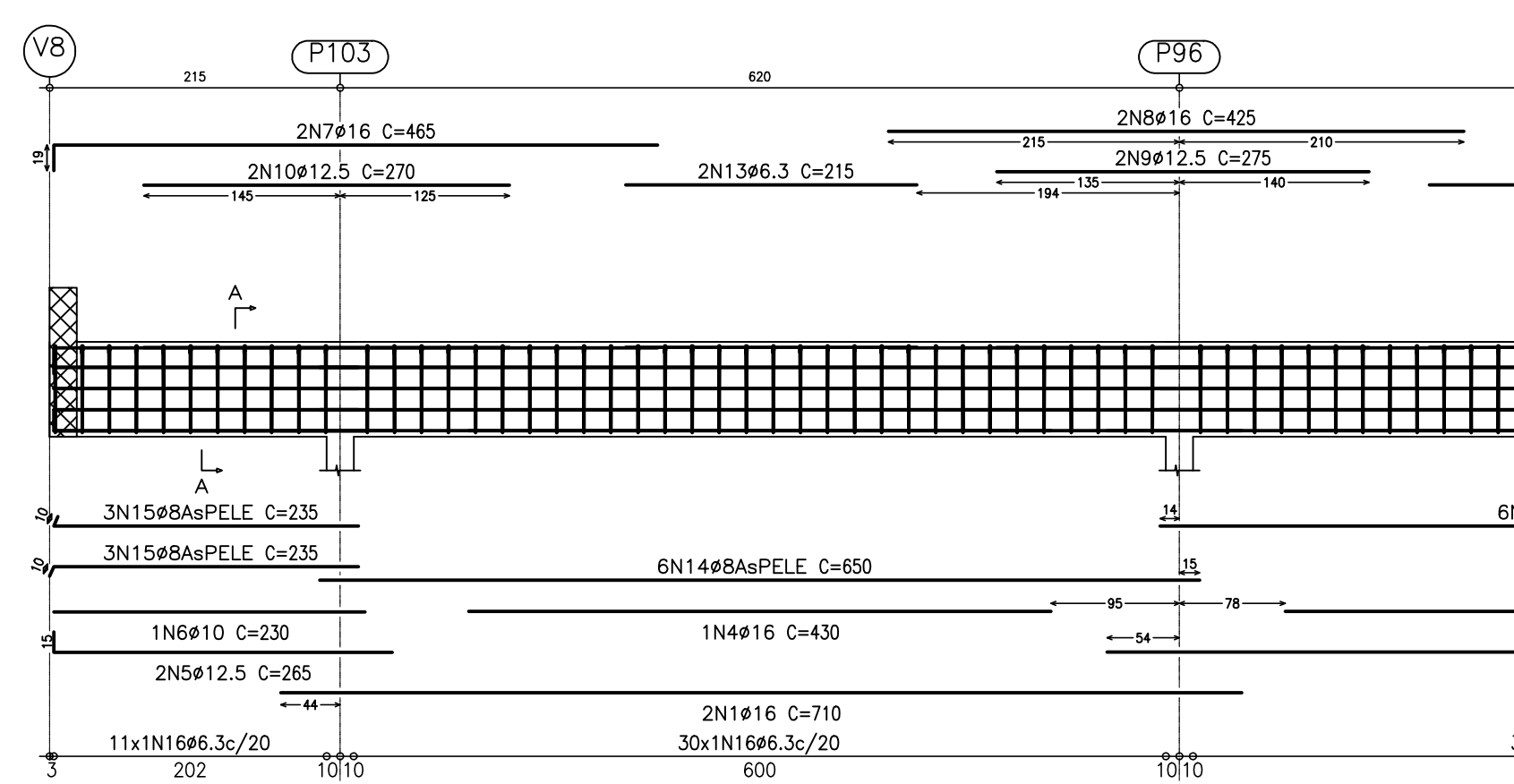


Corte A
Escala 1:20

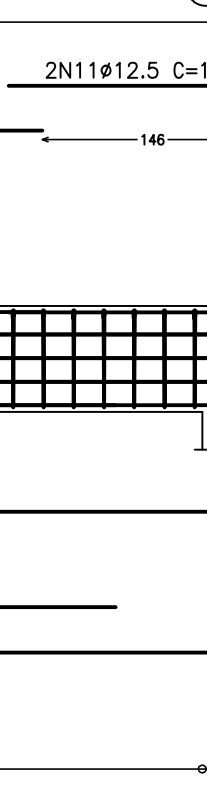


Plar ou muro oposto: P73 e P75
Ver espessa no detalhamento de placas ou vista de muros

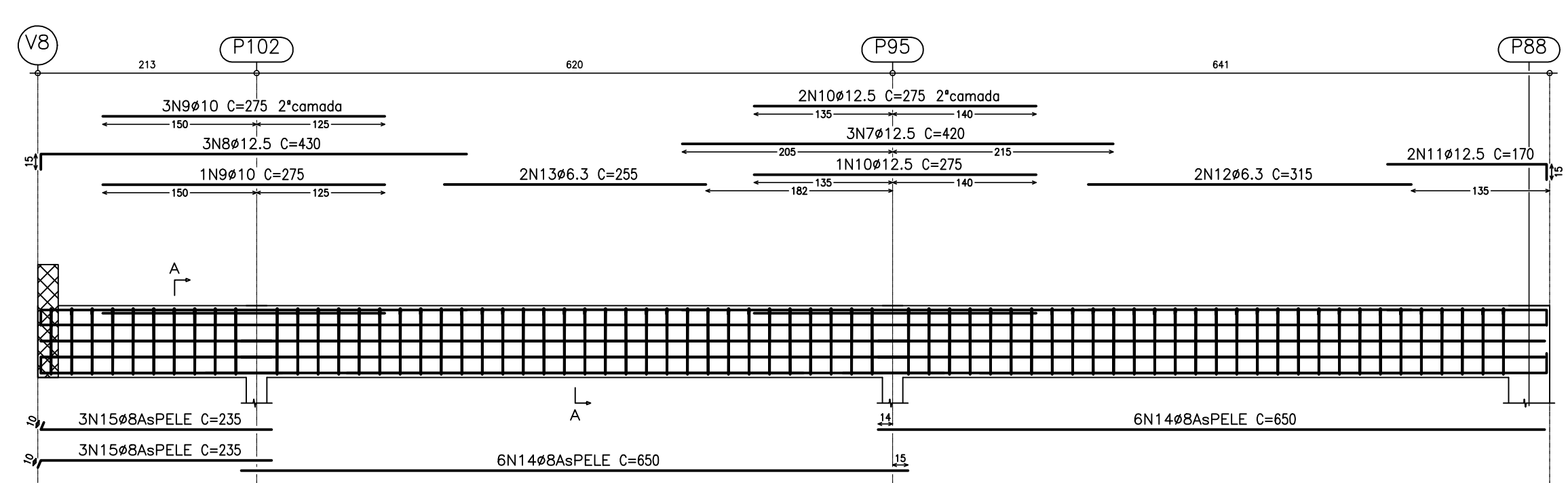
V12
Escala 1:50



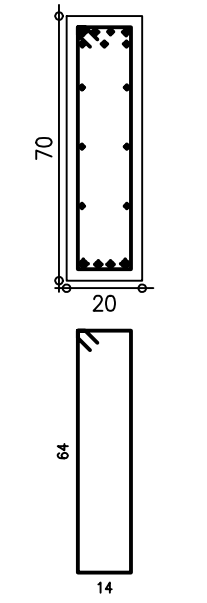
Corte A
Escala 1:20



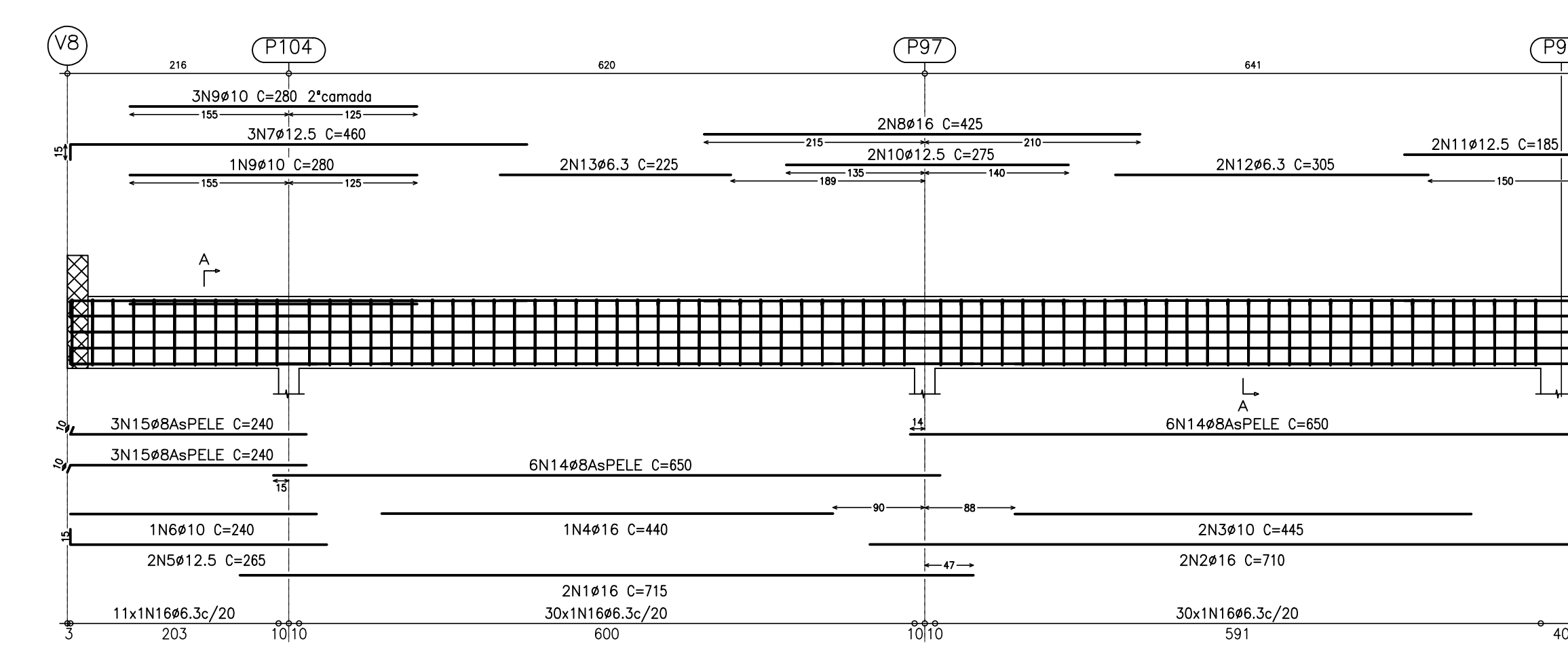
V11
Escala 1:50



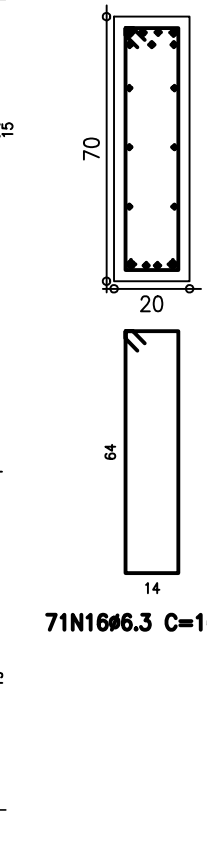
Corte A
Escala 1:20



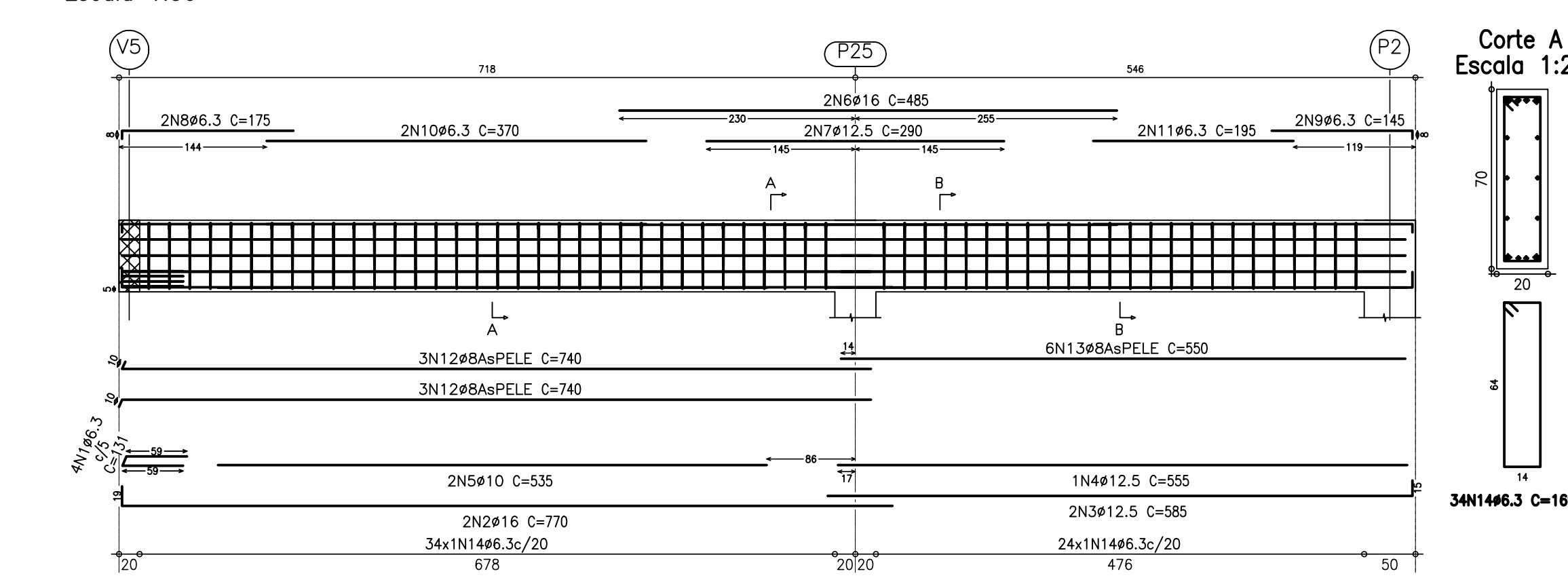
V13
Escala 1:50



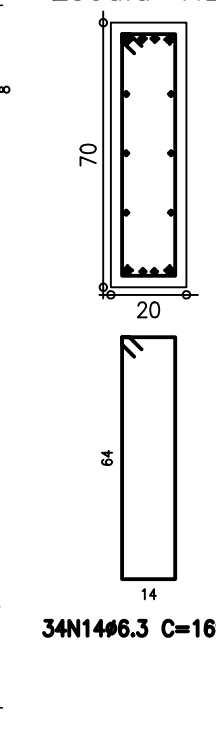
Corte A
Escala 1:20



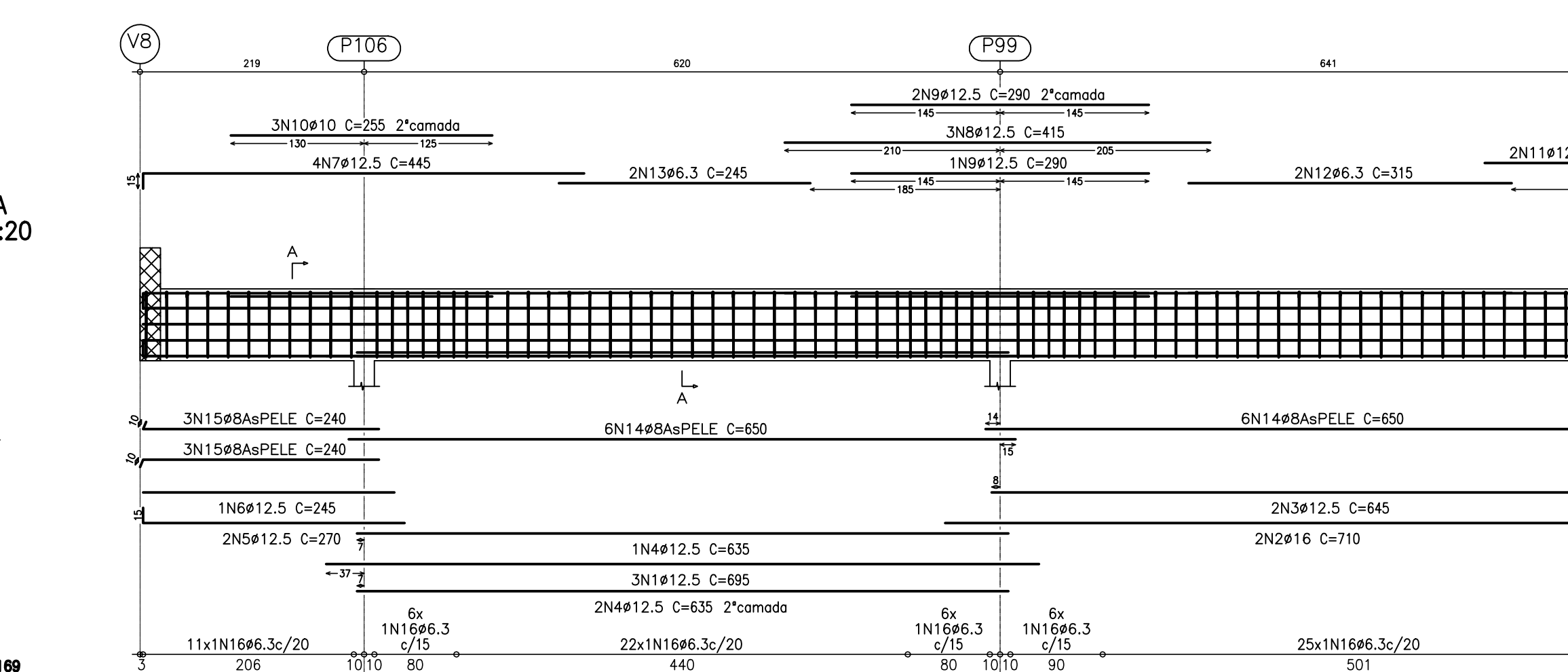
V20
Escala 1:50



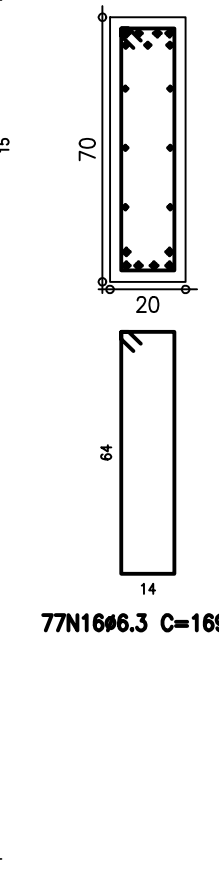
Corte A
Escala 1:20



V15
Escala 1:50



Corte A
Escala 1:20



#6.3	522.6	0.0
#8	633.3	0.0
#10	83.3	0.0
#12.5	706.2	0.0
#16	436.2	0.0
#20	45.0	0.0
Total	2427.5	0.0

Elemento	Pos.	Diam.	Q	DoB.	Ret.	DoB.	Comp.	Ret.	DoB.	Comp.	Ret.	CA-50-A (kg)	CA-60-B (kg)	
V6	1	#12.5	2	860	15	905	1810	17.8						
	2	#12.5	2	870	15	870	1740	17.1						
	3	#12.5	2	820	15	820	1640	16.1						
	4	#12.5	2	715	15	715	1430	14.0						
	5	#12.5	2	340	15	340	680	6.7						
	6	#12.5	2	320	15	320	640	6.3						
	7	#12.5	2	295	15	295	590	5.8						
	8	#6.3	2	337	8	345	690	1.7						
	9	#6.3	2	212	10	220	440	1.1						
	10	#6.3	2	170	10	170	340	0.8						
	11	#6.3	4	140	140	140	560	1.4						
	12	#8	6	475	60	475	2850	11.2						
	13	#8	24	450	450	450	10800	42.4						
	14	#8	16	395	395	395	1576	6.1						
Total+10R:													219.2	
V38	1	#6.3	114	26	792	26	844	1688	41.7					
	2	#16	3	445	19	301	19	320	960	15.1				
	3	#16	3	251	19	251	502	8.5						
	4	#12.5	3	200	15	215	645	6.3						
	5	#10	2	183	10	185	360	2.4						
	6	#6.3	4	285	285	285	1140	2.8						
	7	#8	8	765	765	765	6120	24.0						
	8	#6.3	36	169	169	169	6756	17.8						
	Total+10R:													145.9
	V7	1	#12.5	2	910	15	925	1850	18.2					
		2	#12.5	2	870	15	870	1740	17.1					
		3	#12.5	2	870	15	870	1740	17.1					
		4	#12.5	2	750	15	750	1500	14.7					
		5	#12.5	2	745	15	745	1490	14.6					
6		#12.5	2	295	15	295	590	5.8						
7		#6.3	2	327	8	335	670	1.7						
8		#6.3	2	292	10	292	580	1.5						
9		#6.3	2	170	10	170	340	0.8						
10		#6.3	2	140	10	140	280	0.7						
11		#8	6	490	10	500	3000	11.8						
12		#8	24	450	450	450	10800	42.4						
13		#8	16	445	445	445	1782	6.1						
14		#6.3	118	169	169	169	6942	49.3						
Total+10R:													227.4	
V8	1	#12.5	2	1140	15	1154	2308	22.7						
	2	#12.5	2	920	15	935	1870	18.3						
	3	#12.5	1	910	15	910	180	8.3						
	4	#12.5	2	450	15	450	900	8.8						
	5	#12.5	1	380	15	380	760	7.1						
	6	#12.5	1	300	15	300	600	5.8						
	7	#12.5	1	295	15	295	590	5.8						
	8	#6.3	2	465	15	465	930	2.3						
	9	#10	4	12	303	315	1260	7.9						
	10	#12.5	2	735	15	735	1470	14.4						
	11	#12.5	2	330	330	660	6.5							
	12	#10	2	300	300	600	3.8							
	13	#12.5	1	265	265	530	2.6							
	14	#12.5	1	240	240	480	2.4							
V17A	1	#12.5	2	1155	15	1155	2310	22.7						
	2	#12.5	2	920	15	935	1870	18.3						
	3	#12.5	1	910	15	910	180	8.3						
	4	#12.5	2	450	15	450	900	8.8						
	5	#12.5	1	380	15	380	760	7.1						
	6	#12.5	1	300	15	300	600	5.8						
	7	#12.5	1	295	15	295	590	5.8						
	8	#6.3	2	465	15	465	930	2.3						
	9	#10	4	12	303	315	1260	7.9						
	10	#12.5	2	735	15	735	1470	14.4						
	11	#12.5	2	330	330	660	6.5							
	12	#10	2	300	300	600	3.8							
	13	#12.5	1	265	265	530	2.6							
	14	#12.5	1	240	240	480	2.4							
V39	1	#16	2	1960	24	1117	2234	54.9						
	2	#12.5	2	1060	15	1075	2150	21.1						
	3	#12.5	3	545	545	1635	16.0							
	4	#12.5	3	305	915	305	915	9.0						
	5	#16	2	19	246	265	530	8.3						
	6	#12.5	2	15	220	215	430	4.2						
	7	#12.5	2	180	20	200	400	3.9						
	8	#12.5	2	135	15	150	300	2.9						
	9	#6.3	3	165	165	495	1.2							
	10	#6.3	14	150	150	7770	30.5							
	11	#8	14	300	10	550	7560	29.7						
	12	#6.3	64	10	229	14656	56.2							
	Total+10R:													163.0
	V11	1	#16	2	720	19	720	1440	22.6					
2		#16	2	686	19	705	1410	22.1						
3		#16	1	450	15	450	900	8.7						
4		#12.5	2	445	15	445	890	8.7						
5		#12.5	2	290	15	295	590	5.2						
6		#10	1	235	235	470	4.7							
7		#12.5	2	420	15	420	840	12.4						
8		#12.5	3	15	430	1290	12.7							
9		#10	4	275	275	1100	6.9							
10		#12.5	2	275	825	275	825	8.1						
11		#12.5	2	155	15	170	340	3.3						
12		#6.3	2	315	1.6	315	630	1.6						
13		#6.3	2	255	255	510	1.3							
14		#8	12	650	650	7800	30.6							
V12	1	#16	2	710	19	710	1420	22.3						
	2	#16	1	465	15	465	930	8.7						
	3	#16	1	445	15	445	890	8.7						
	4	#12.5	2	430	15	430	860	8.6						
	5	#12.5	2	250	15	265	530	5.2						
	6	#16	2	19	230	230	460	4.6						
	7	#16	1	446	15	446	890	8.7						
	8	#12.5	2	425	15	425	850	8.5						
	9	#16	2	275	275	550	5.5							
	10	#12.5	2	270	270	540	5.3							
	11	#12.5	2	165	165	330	3.3							
	12	#6.3	2	310	310	620	1.5							
	13	#6.3	2	215	215	430	1.1							
	14	#8	12	650	650	7800	30.6							
15	#8	6	225	160	235	1410	5.5							
16	#6.3	71	169	169	169	6759	29.7							
Total+10R:													195.3	
V13	1	#16	2	715	19	715	1430	22.5						
	2	#16	1	691	19	715	1430	22.3						
	3	#10	2	445	15	445	890	8.6						
	4	#12.5	2	430	15	430	860	8.6						
	5	#12.5	2	250	15	265	530	5.2						
	6	#10	1	240	240	480	4.8							
	7	#12.5	3	15	450	1350	13.3							
	8	#16	2	425	425	850	8.5							
	9	#10	2	280	280	560	5.6							
	10	#12.5	2	275	275	550	5.4							
	11	#12.5	2	170	170	340	3.4							
	12	#6.3	2	305	305	610	1.5							
	13	#6.3	2	255	255	510	1.5							
	14	#8	12	650	650	7800	30.6							
15	#8	6	230	240	240	1440	5.7							
16	#6.3	71	169	169	169	6759	29.7							
Total+10R:													192.9	
V20	1	#16	2	710	19	710	1420	22.3						
	2	#16	2	686	19	705	1410	22.1						
	3	#16	1	445	15	445	890	8.6						
	4	#10	1	465	465	930	9.3							
	5	#12.5	2	255	250	500	5.0							
	6	#12.5	3	15	450	1350	13.3							
	7	#12.5	3	15	450	1350	13.3							
	8	#16	2	425	425	850	8.5							
	9	#10	4	275	275	1100	6.9							
	10	#12.5	2	265	265	530	5.3							
	11	#12.5	2	165	165	330	3.3							
	12	#6.3	2	310	310	620	1.5							
	13	#6.3	2	215	215	430	1.1							
	14	#8	12	650	650	7800	30.6							
15	#8	6	230	240	240	1440	5.7							
16	#6.3	71	169	169	169	6759	29.7							
Total+10R:													190.4	
V14	1	#16	2	710	19	710	1420	22.3						
	2	#16	2	686	19	705	1410	22.1						
	3	#16	1	445	15	445	890	8.6						
	4	#10	1	465	465	930	9.3							
	5	#12.5	2	255	250	500	5.0							
	6	#												