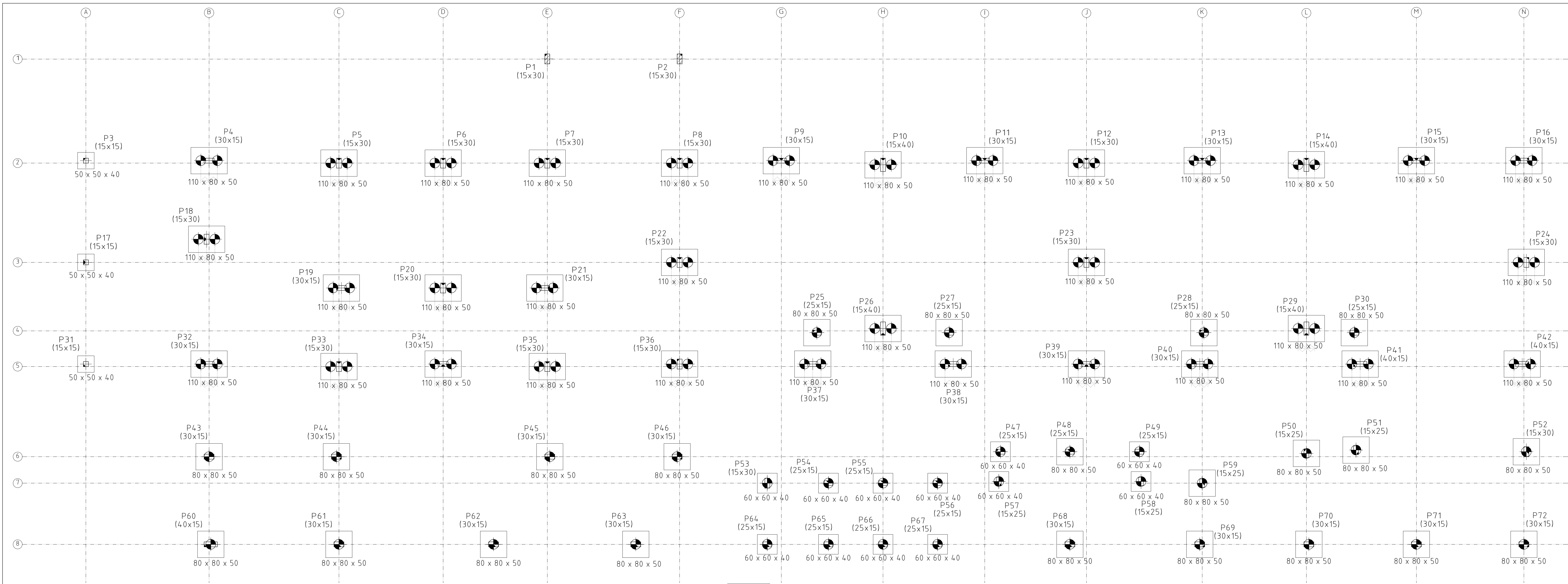
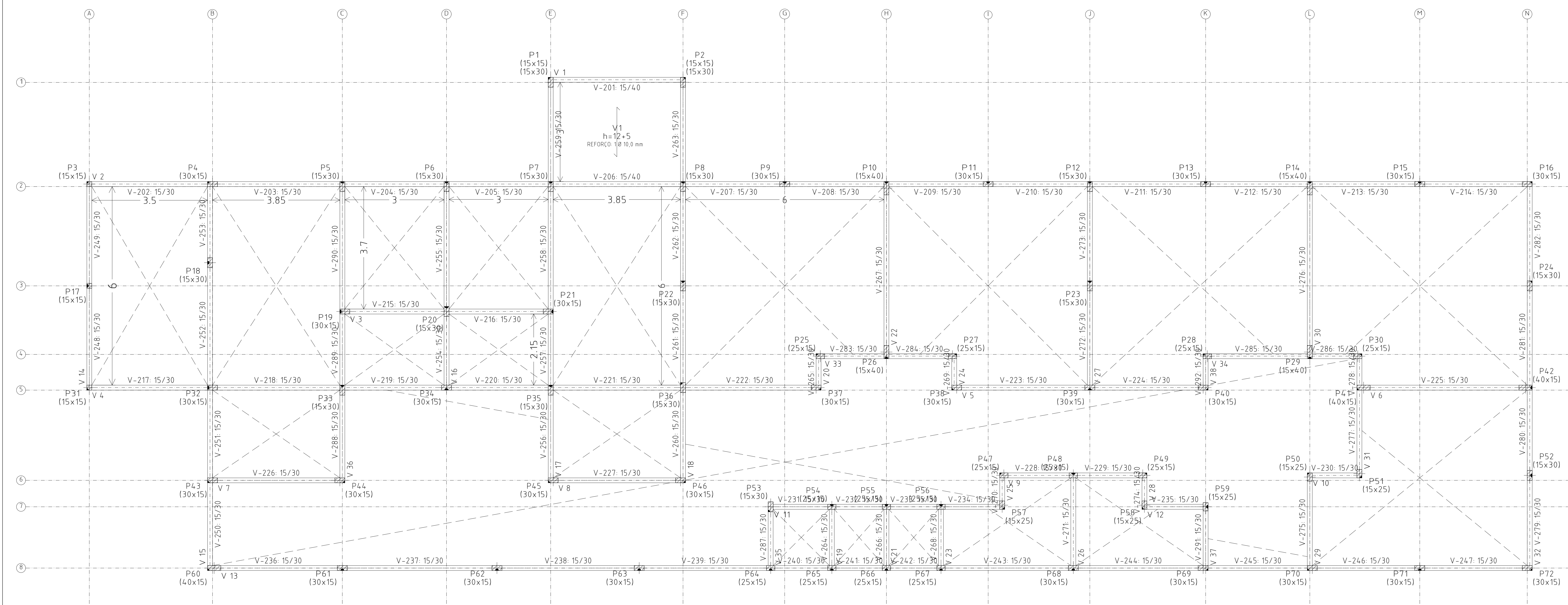




FUNDAÇÃO SUPERIOR



VIGAS BALDRAME

Baldrame

P18	110 x 80 x 15
M1	Momento fletor de cálculo por metro de largura
V	Esforço cortante de cálculo por metro de largura
Escala	1:50

Tab. de características de lajes e vigas (Escala 1:50)

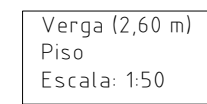
Elemento	Forma	Volume	Barra
Lajes	11,55	0,930	7
Vigas	14,01	36,68	12 x 10
Pilares	2,35	2,56	8 x 1
Total	48,23	15,540	188
Índices (por m2)	-	0,303	36,64
Superfície total	31,1	-	-

Baldrame

Elemento	Forma	Volume	Barra
Lajes	11,55	0,930	7
Vigas	14,01	36,68	12 x 10
Pilares	2,35	2,56	8 x 1
Total	48,23	15,540	188
Índices (por m2)	-	0,303	36,64
Superfície total	31,1	-	-

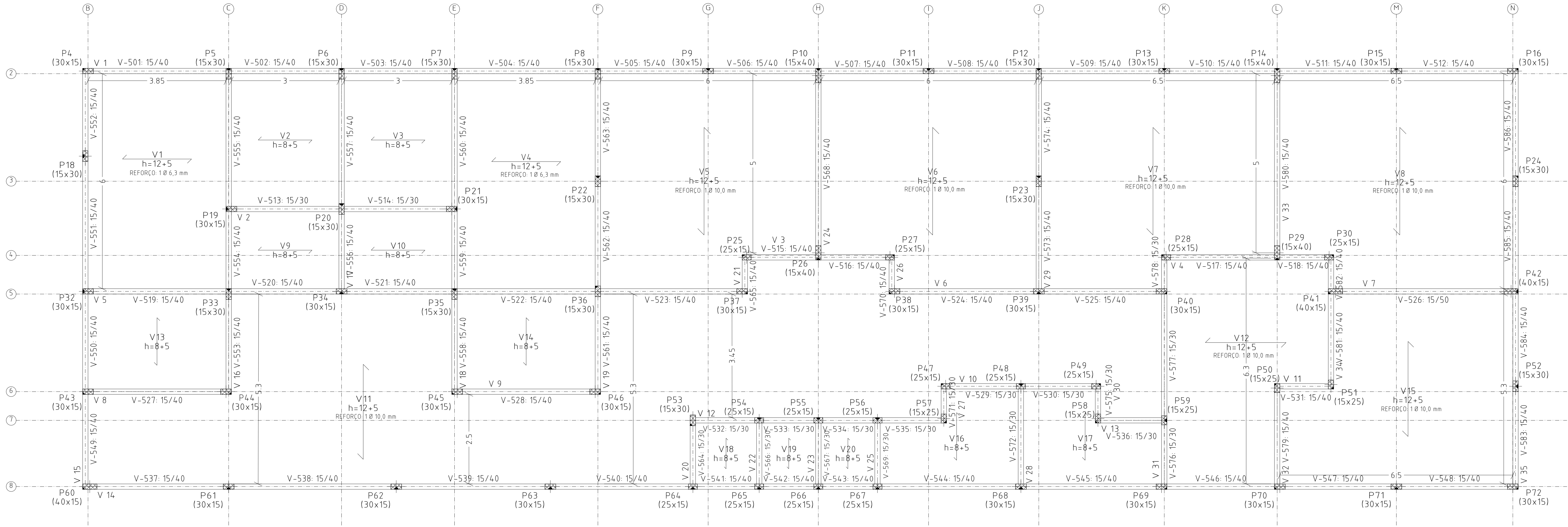
FUNDAÇÃO TALUDE

ESTACAS				
PILAR	Ø DA ESTACA (cm)	QUANTIDADE DE ESTACAS	PROFUNDIDADE MÍNIMA (m)	ARMADURA LONGITUDINAL
P1	30 cm	2	3,00	Ø 5,0 mm c/ 15 cm
P2	30 cm	2	3,00	Ø 5,0 mm c/ 15 cm
P3	-	-	-	-
P4	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P5	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P6	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P7	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P8	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P9	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P10	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P11	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P12	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P13	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P14	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P15	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P16	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P17	-	-	-	-
P18	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P19	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P20	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P21	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P22	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P23	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P24	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P25	30 cm	1	6,00	Ø 5,0 mm c/ 15 cm
P26	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P27	30 cm	1	6,00	Ø 5,0 mm c/ 15 cm
P28	30 cm	1	6,00	Ø 5,0 mm c/ 15 cm
P29	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P30	30 cm	1	6,00	Ø 5,0 mm c/ 15 cm
P31	-	-	-	-
P32	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P33	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P34	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P35	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P36	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P37	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P38	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P39	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P40	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P41	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P42	30 cm	2	6,00	Ø 5,0 mm c/ 15 cm
P43	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P44	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P45	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P46	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P47	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P48	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P49	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P50	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P51	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P52	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P53	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P54	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P55	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P56	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P57	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P58	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P59	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P60	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P61	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P62	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P63	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P64	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P65	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P66	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P67	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P68	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P69	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P70	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P71	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
P72	30 cm	1	3,00	Ø 5,0 mm c/ 15 cm
TOTAL		104	522,00	



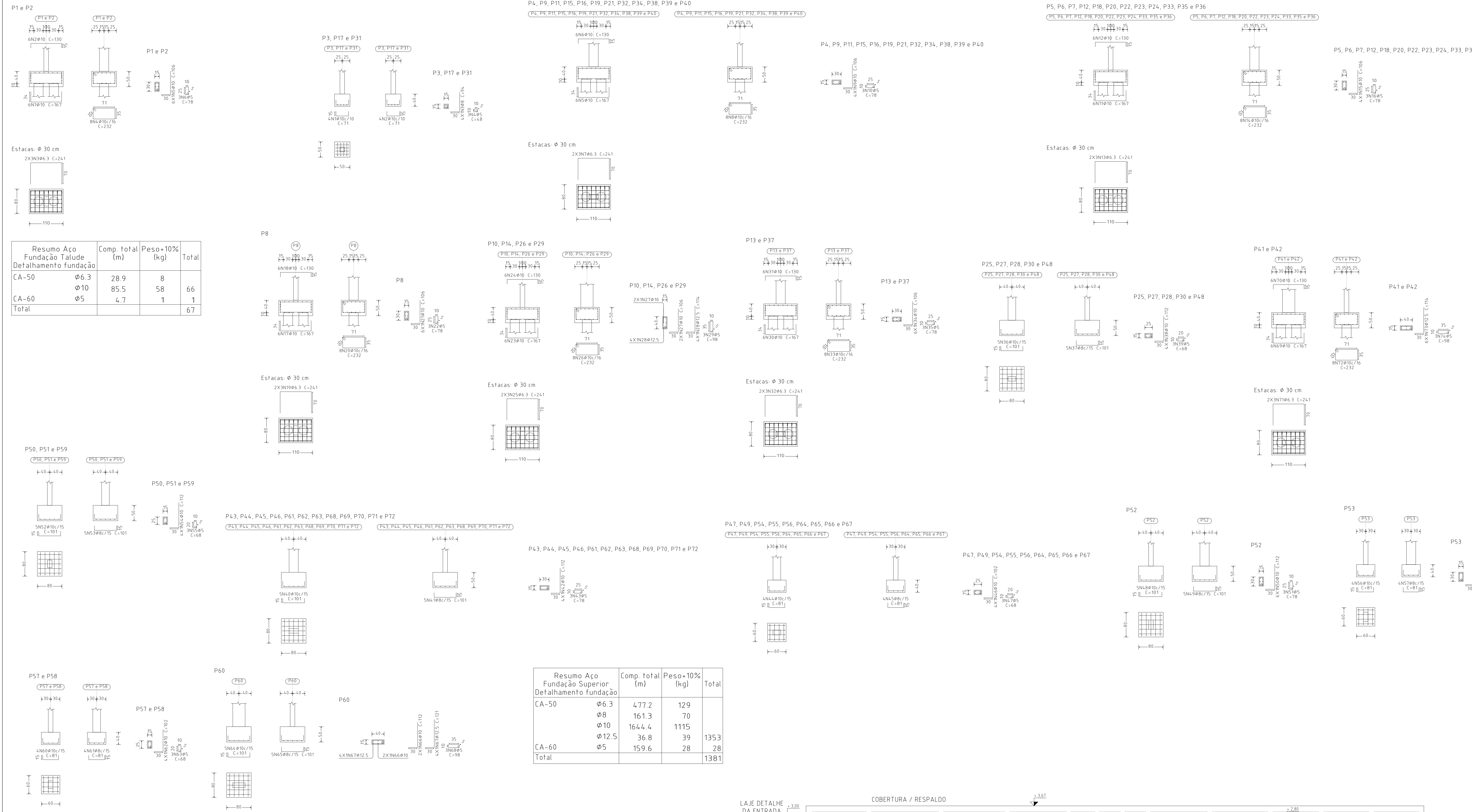
Elemento	Pos.	Diam. Q.	Dob (cm)	Retá (cm)	Dob (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Armadura longitudinal inferior	1	Ø8	55	10	VAR	9	9900	39,1	
							Total: 10%	4,30	
Armadura transversal inferior	2	Ø8	15	10	5,41	10	561	84,5	33,2
							Total: 10%	36,5	
Armadura longitudinal superior	3	Ø8	55	13	16,1	29	19835	42,8	
							Total: 10%	4,71	
Armadura transversal superior	4	Ø8	15	28	5,41	13	582	8730	34,5
							Total: 10%	36,0	
							Ø8	164,6	0,0
							Total:	164,6	0,0

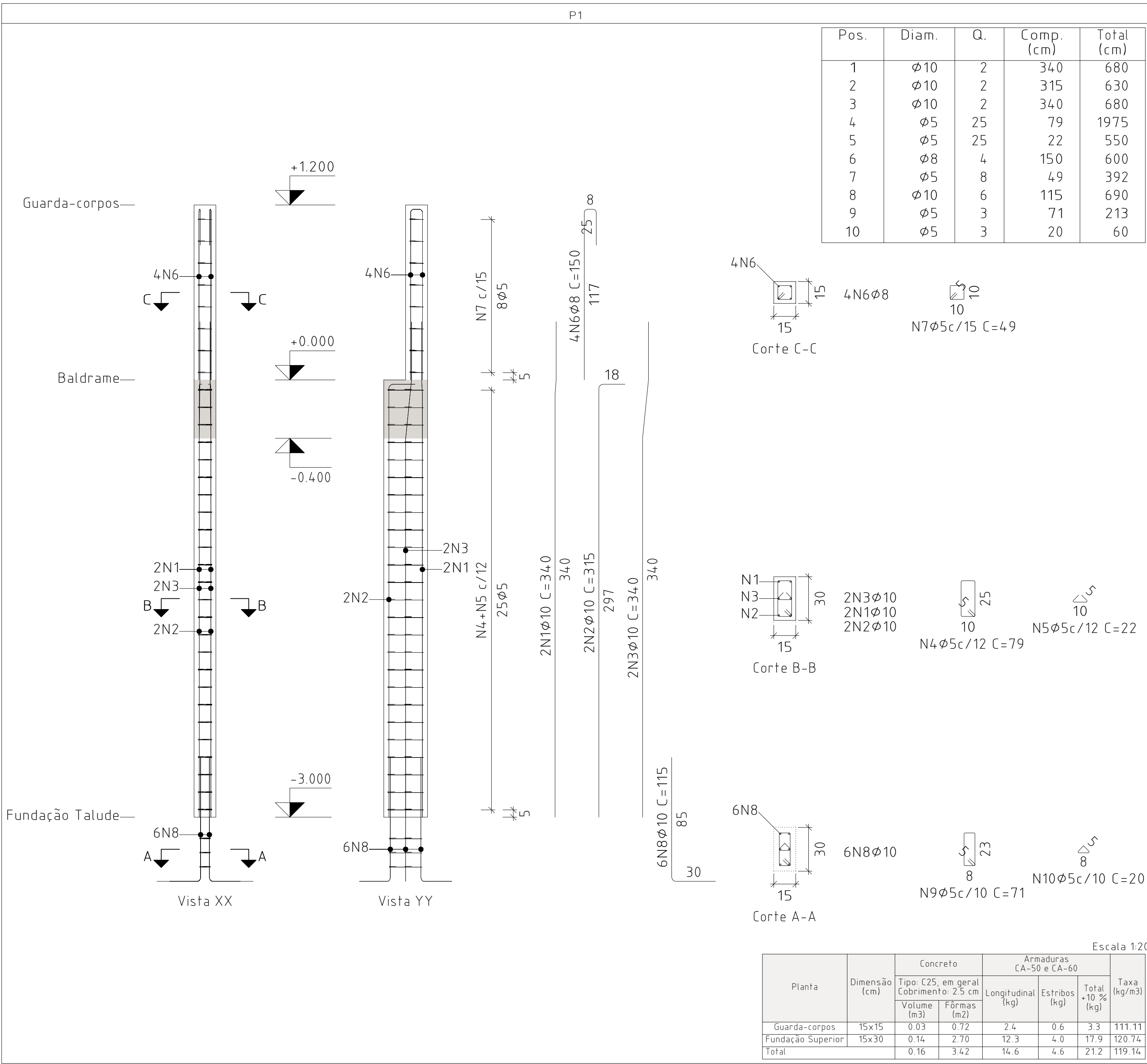
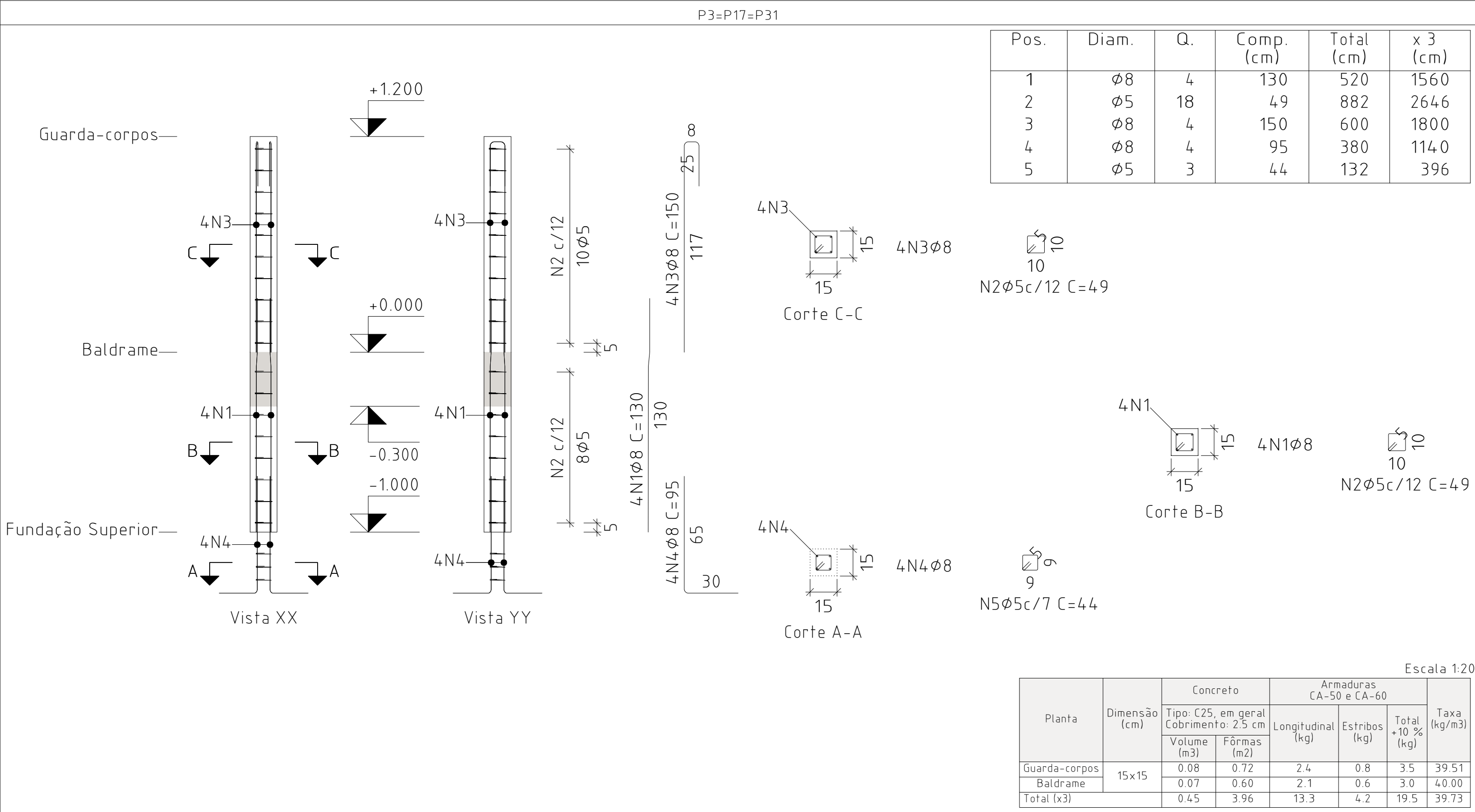
NOTAS IMPORTANTES



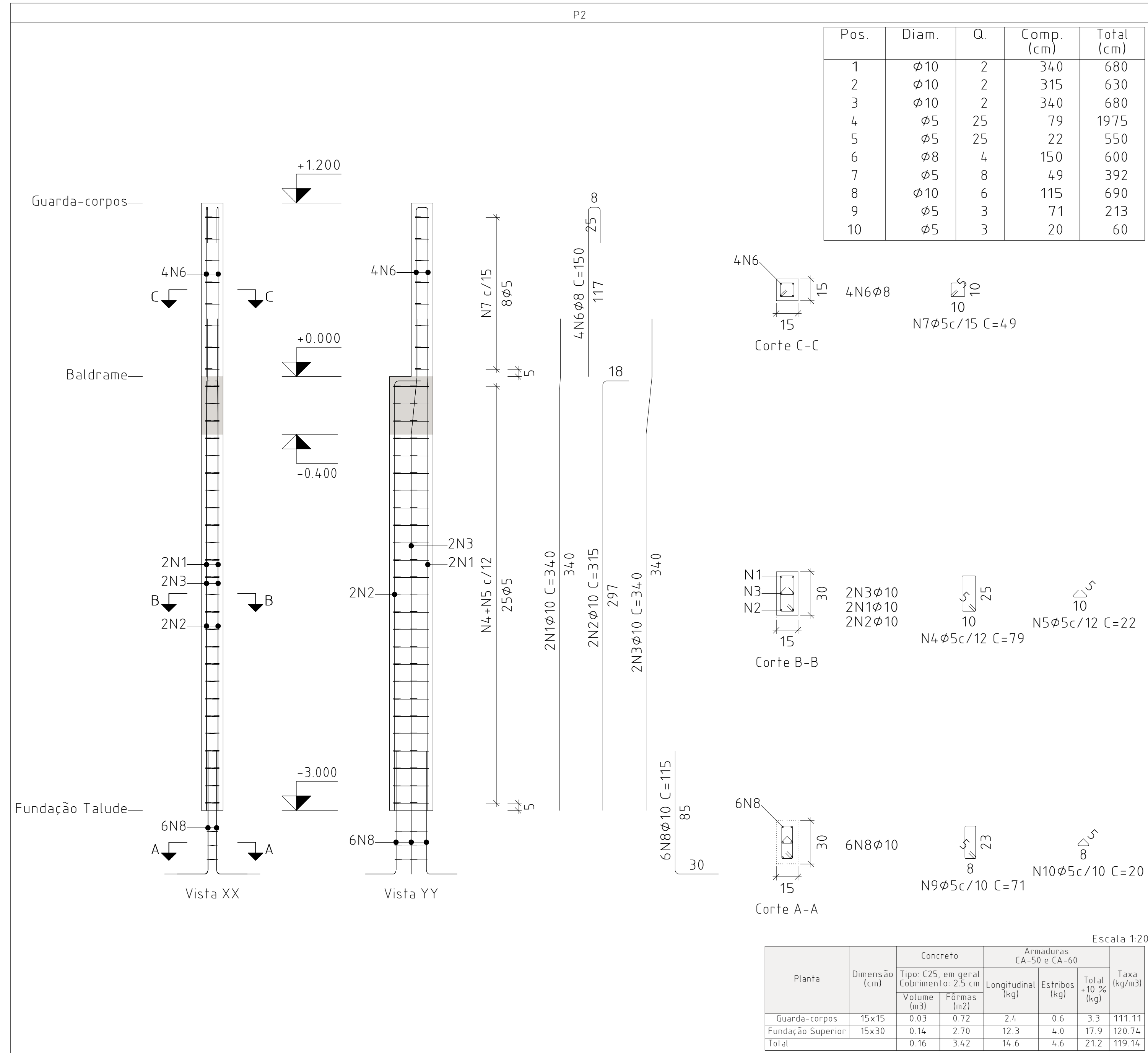
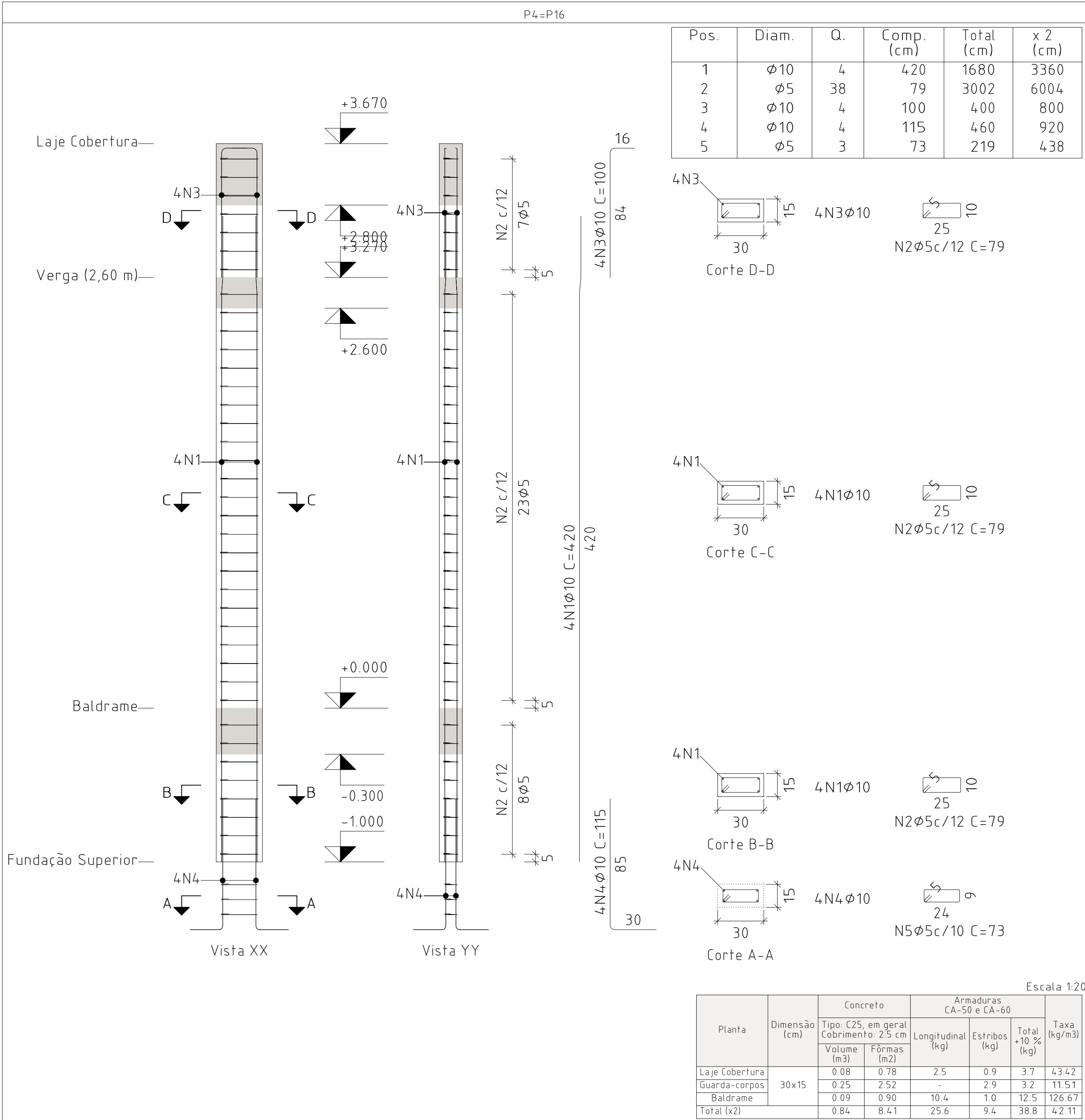
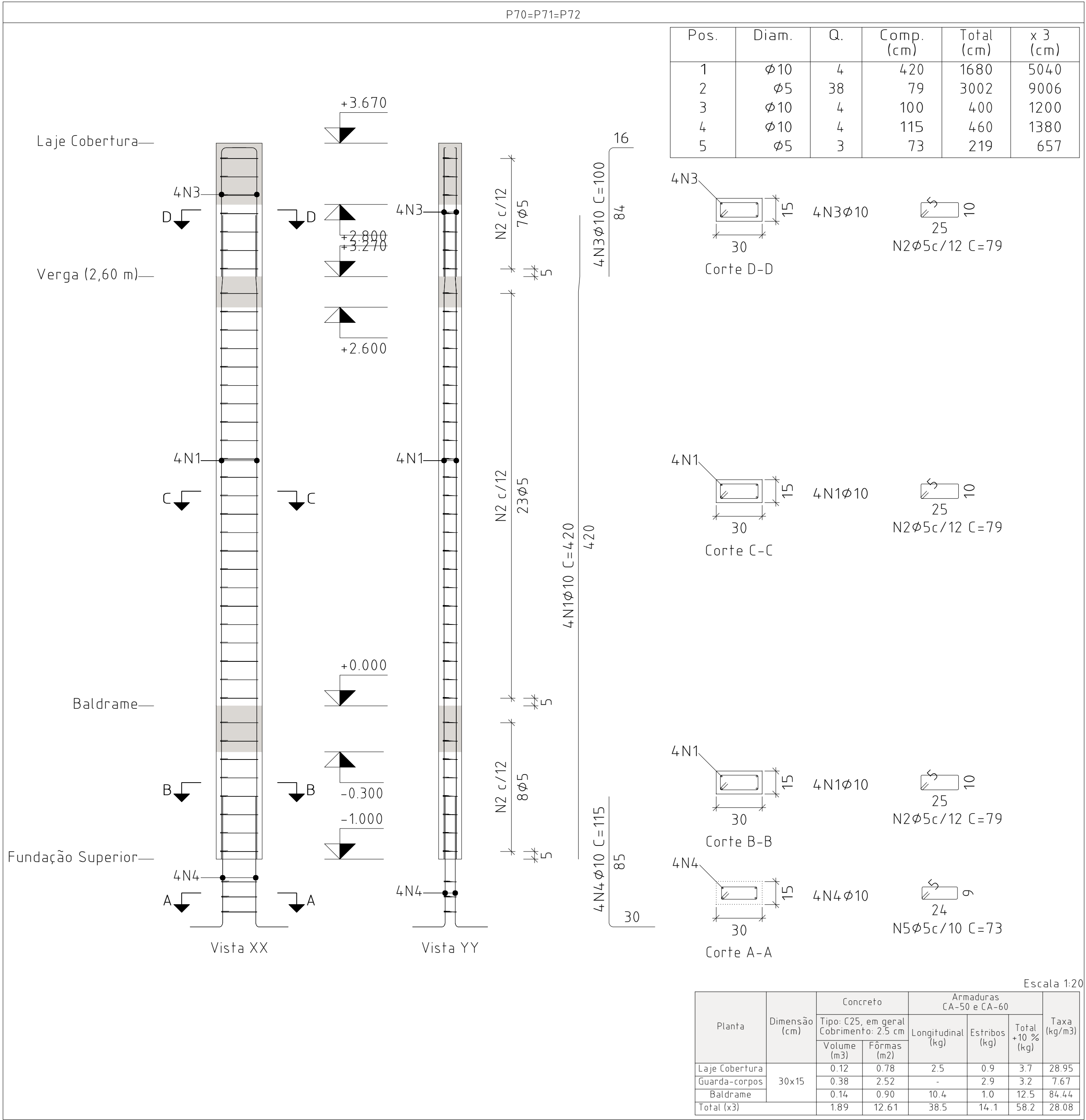
RESPALDO (COBERTURA)

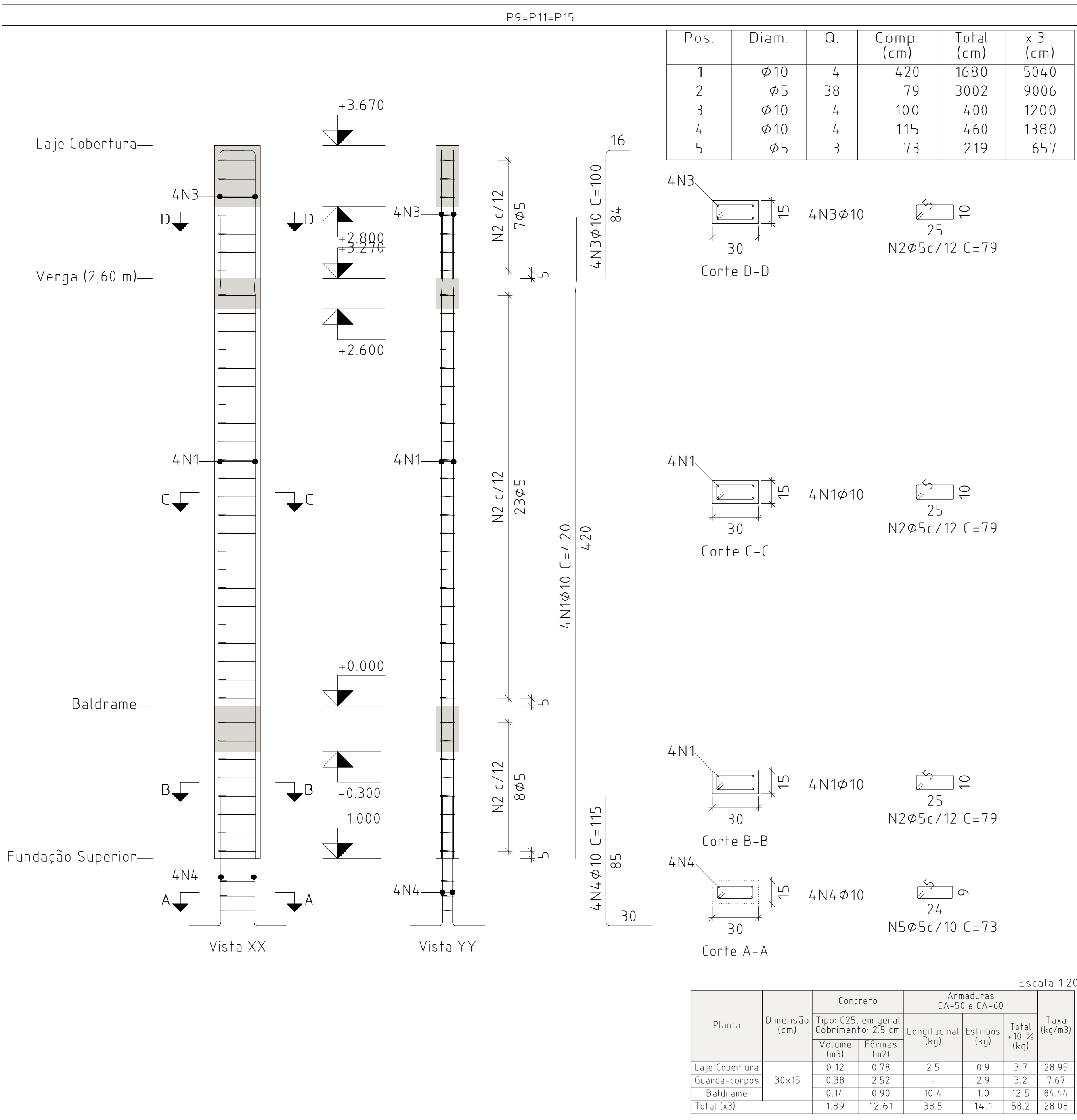
	
IDENTIFICAÇÃO DA OBRA:	PROJETO ESTRUTURAL - AMPLIAÇÃO DO CEMETARIO JESUS II
CONTEUDO:	PLANTAS DE FÔRMA (VERGAS E COBERTURA), NOTAS IMPORTANTES
ENDEREÇO:	RUA DR. PINTO DE OLIVEIRA, 564, VILA COLI, ELÓI MENDES - MG
RESP. TÉCNICO: BRUNO AMBRÓSIO COELHO CREA: MG-325.624	PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ELÓI MENDES CNPJ: 20.34.723/0001-26
DATA: AGOSTO/2026	PRANCHA: 2/18



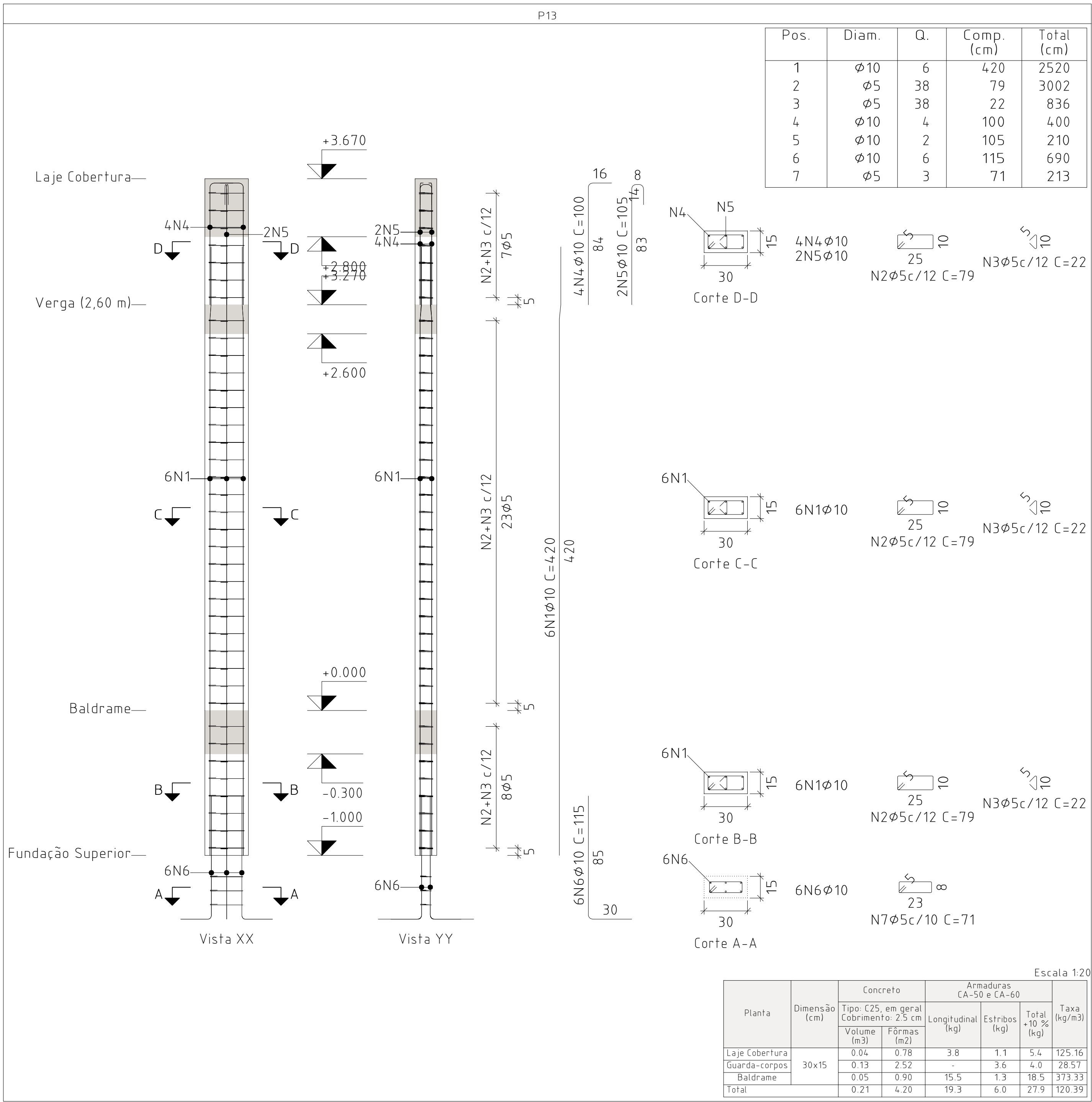


Elemento	Pos	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	(CA-50/CA-60) (kg)
P1	1	Ø10	2		340	680	4.2
	2	Ø10	2		315	630	3.9
	3	Ø10	2		340	680	4.2
	4	Ø5	25		79	1975	3.1
	5	Ø5	25		22	550	0.9
	6	Ø8	4		150	600	2.4
	7	Ø5	8		49	392	0.6
	8	Ø10	6		115	690	4.3
	9	Ø5	3		71	213	0.3
	10	Ø5	3		20	60	0.1
						Total+10%	20.9
P2	1	Ø10	2		340	680	4.2
	2	Ø10	2		315	630	3.9
	3	Ø10	2		340	680	4.2
	4	Ø5	25		79	1975	3.1
	5	Ø5	25		22	550	0.9
	6	Ø8	4		150	600	2.4
	7	Ø5	8		49	392	0.6
	8	Ø10	6		115	690	4.3
	9	Ø5	3		71	213	0.3
	10	Ø5	3		20	60	0.1
						Total+10%	20.9
P3=P17=P31	1	Ø8	4		130	520	2.1
	2	Ø5	18		49	882	1.4
	3	Ø8	4		150	600	2.4
	4	Ø8	4		95	380	1.5
	5	Ø5	3		44	132	0.2
						Total+10% (x3)	6.6
P4=P16	1	Ø10	4		420	1680	10.4
	2	Ø5	38		79	3002	4.7
	3	Ø10	4		100	400	2.5
	4	Ø10	4		115	460	2.8
	5	Ø5	3		73	219	0.3
						Total+10% (x2)	17.3
P70=P71=P72	1	Ø10	4		420	1680	10.4
	2	Ø5	38		79	3002	4.7
	3	Ø10	4		100	400	2.5
	4	Ø10	4		115	460	2.8
	5	Ø5	3		73	219	0.3
						Total+10% (x3)	17.3
						Ø5	0.0
						Ø8	25.0
						Ø10	123.1
						Total	148.1

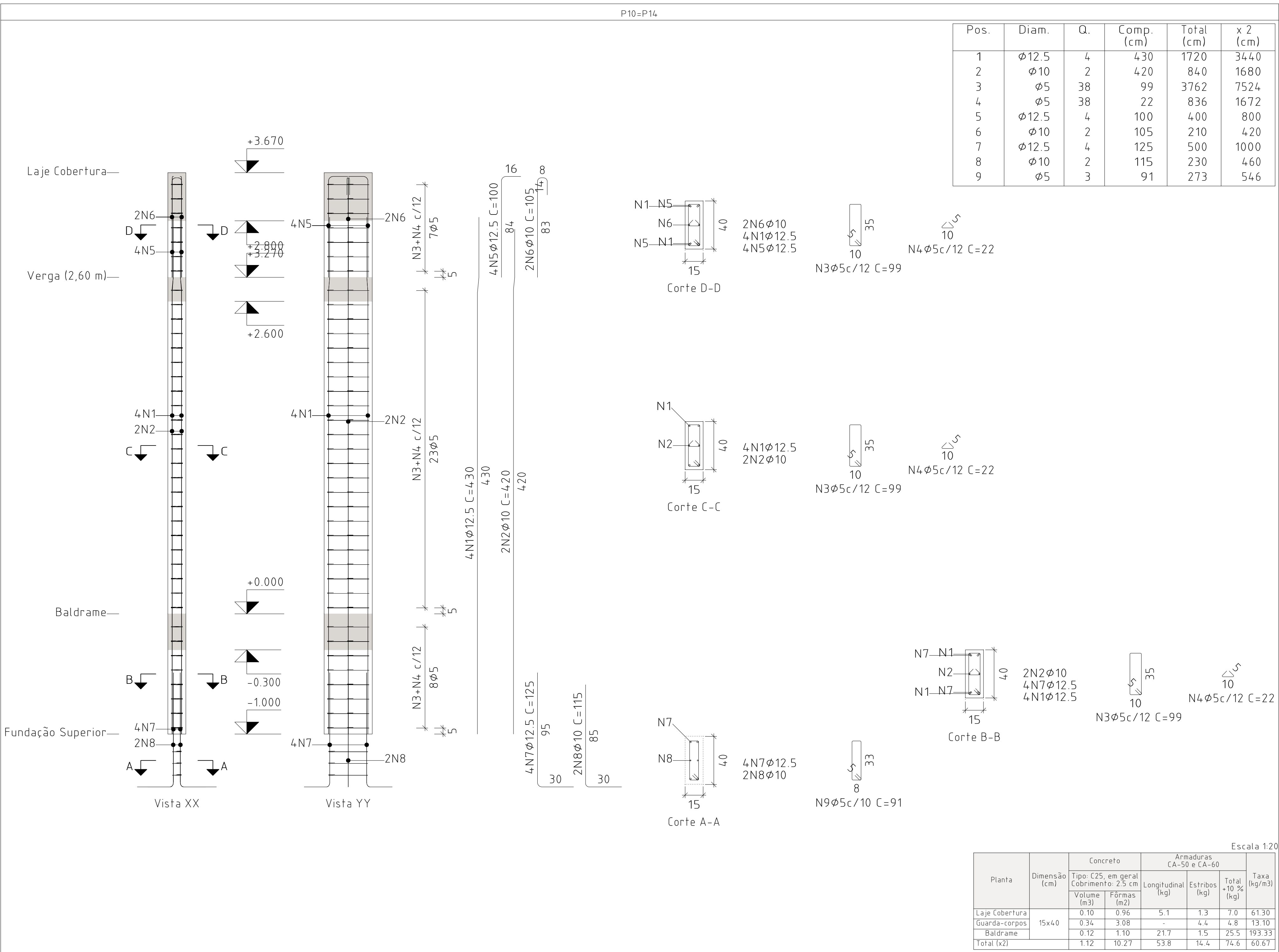
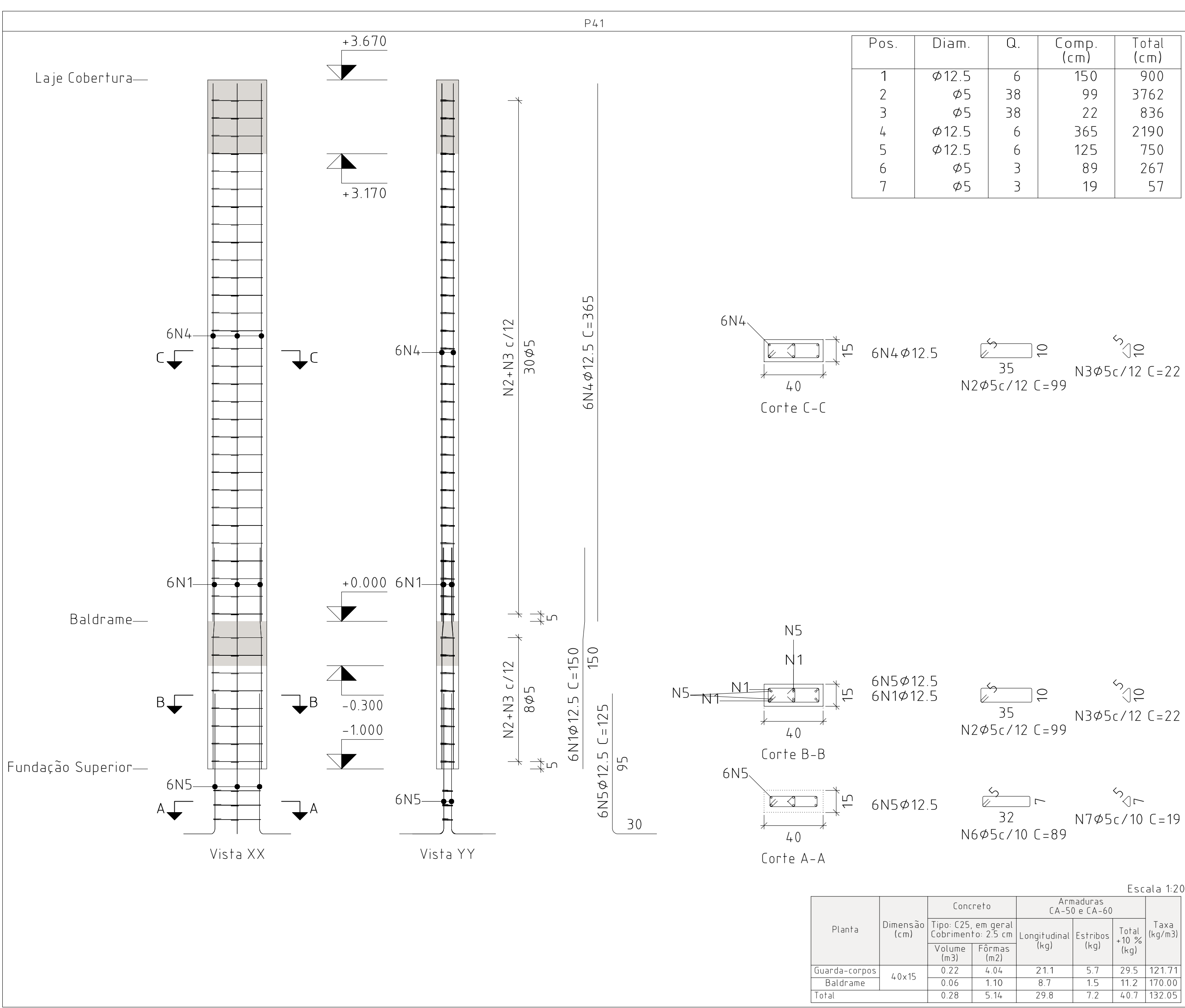


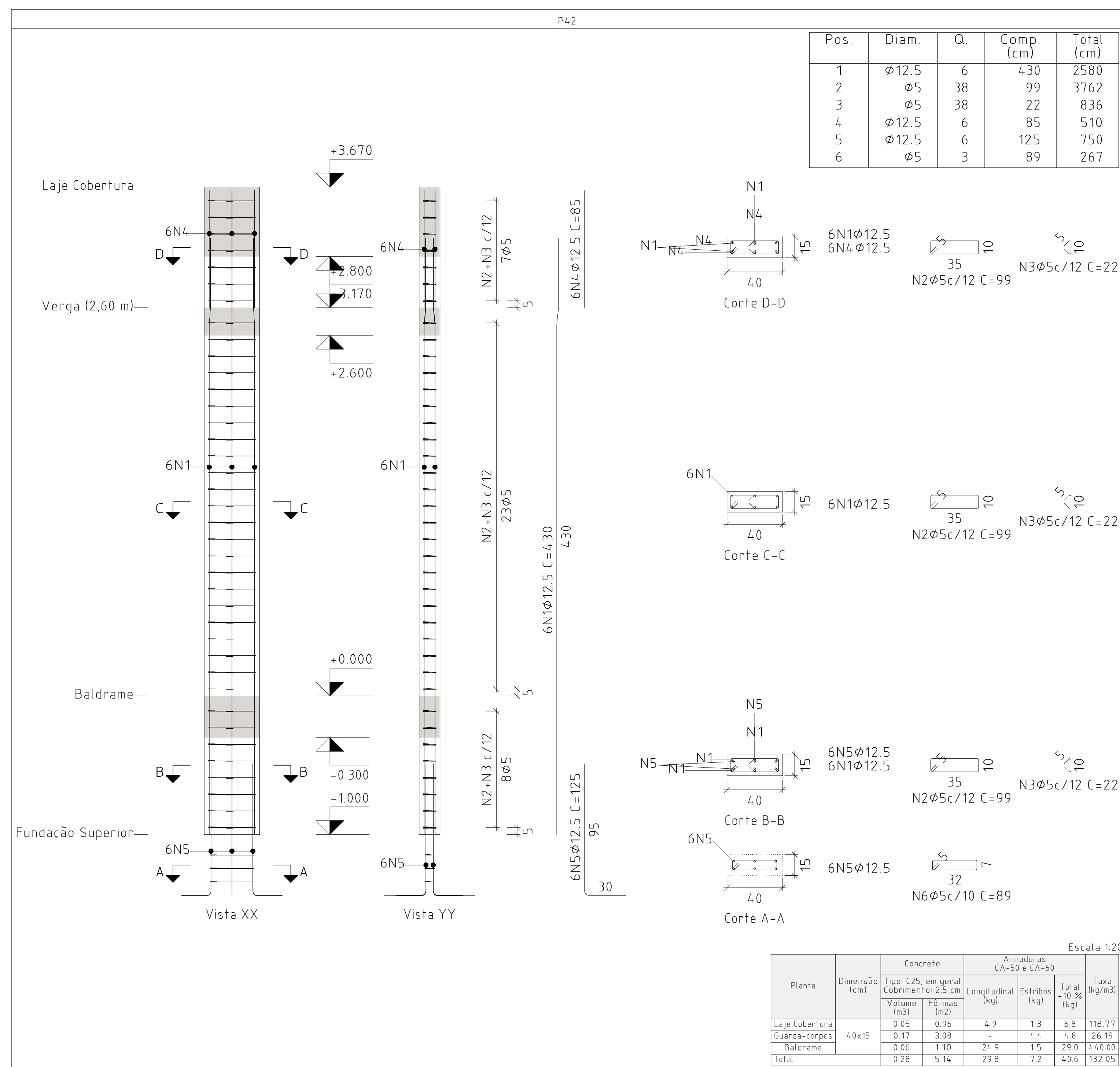
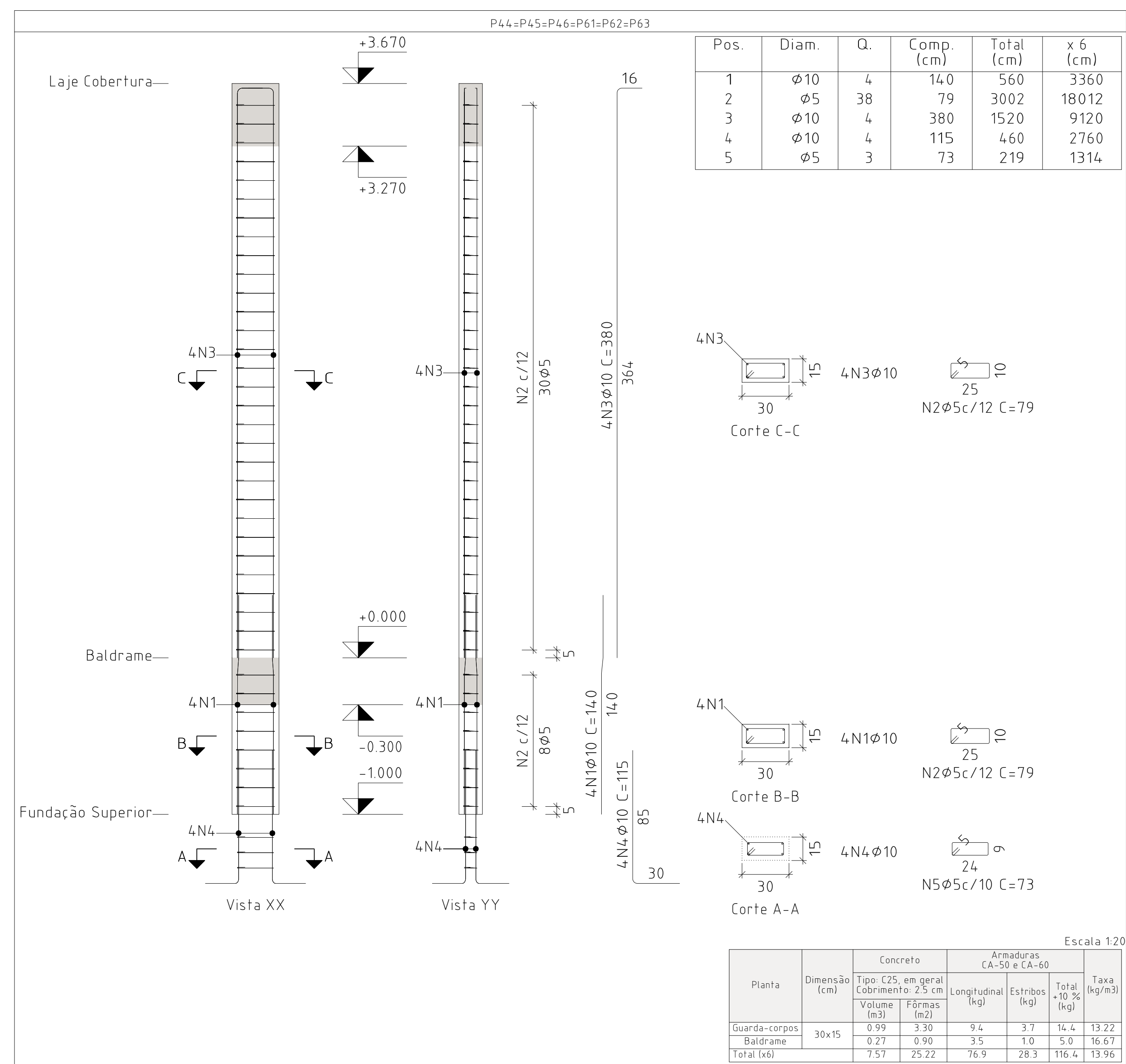
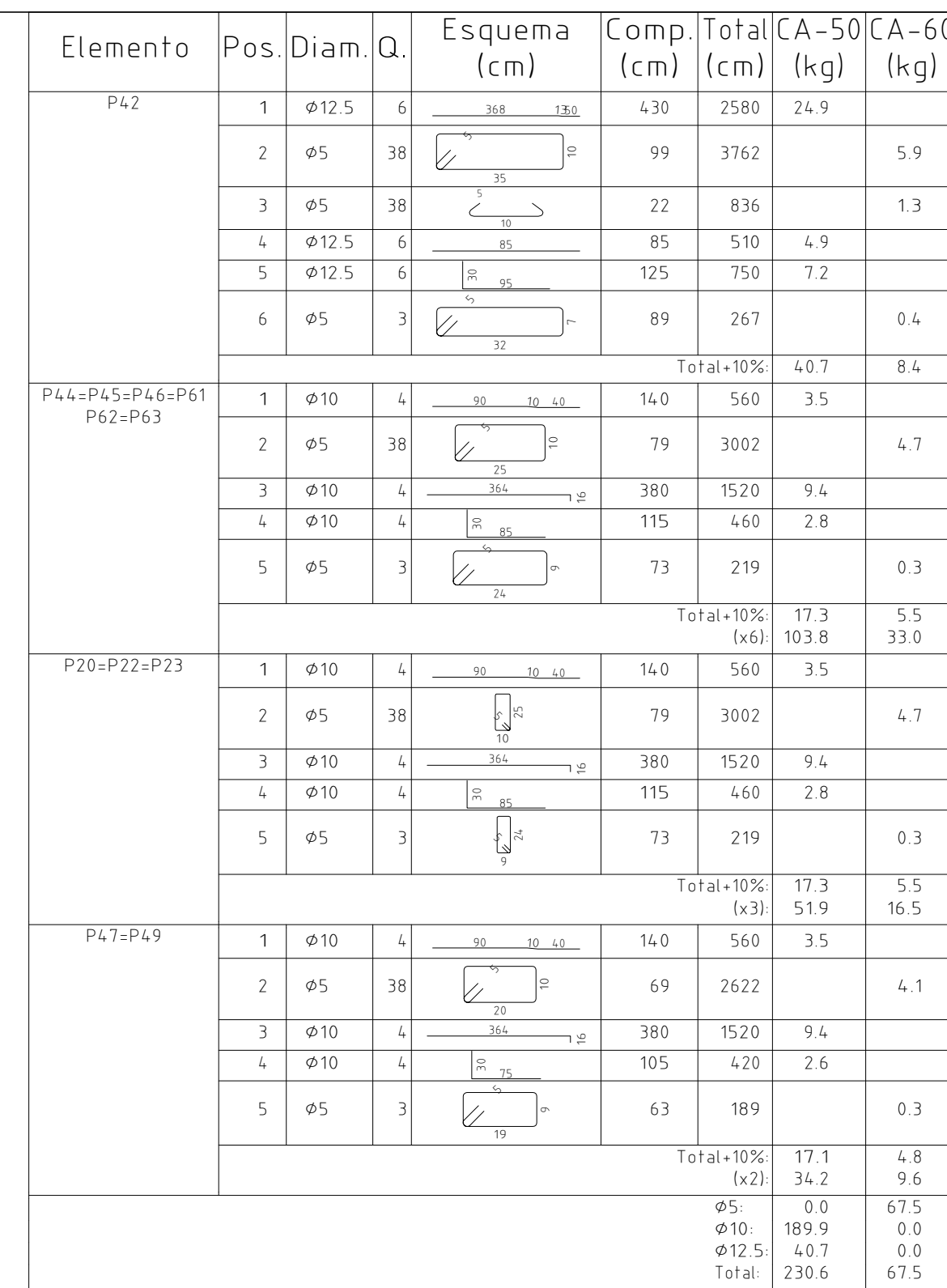
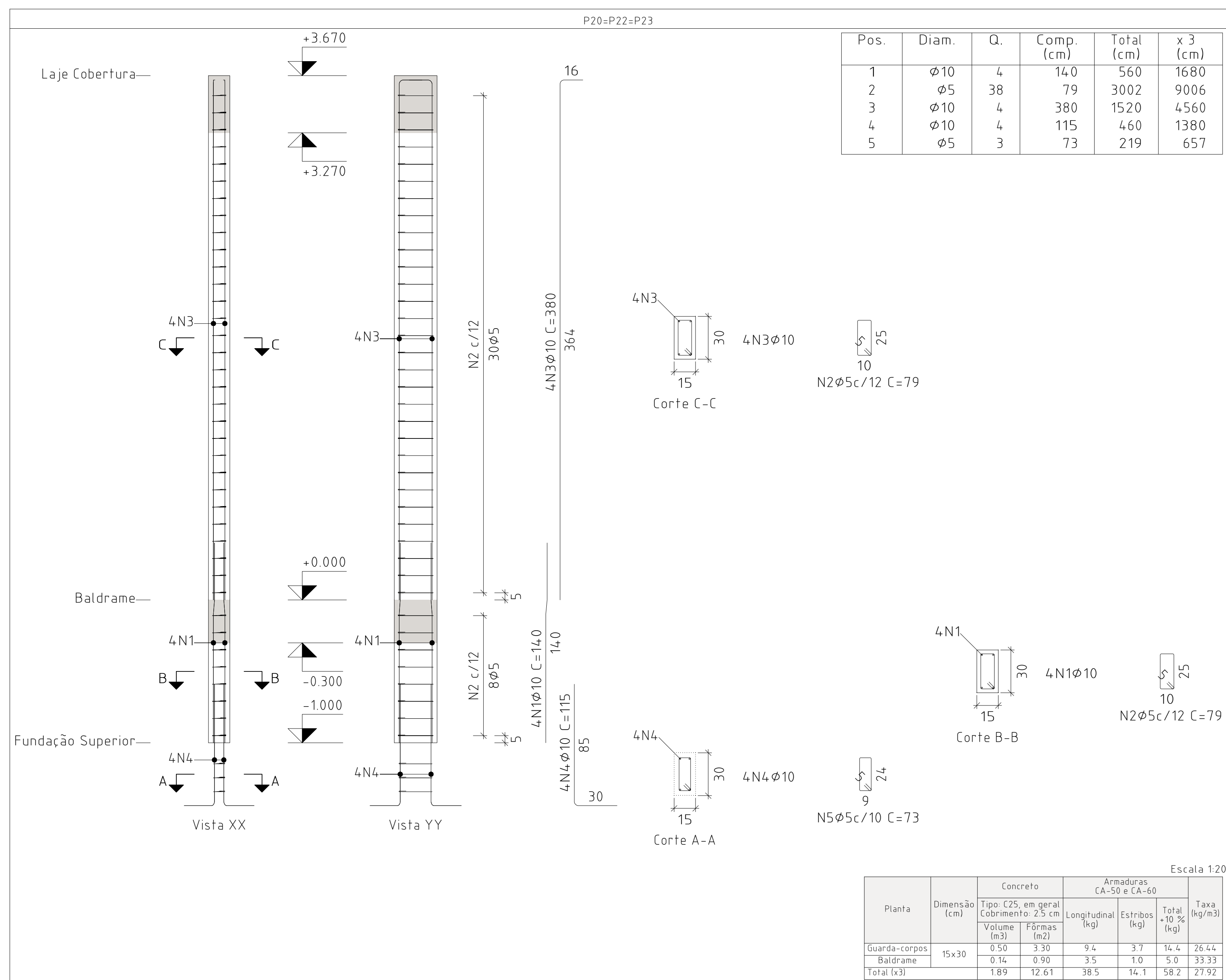
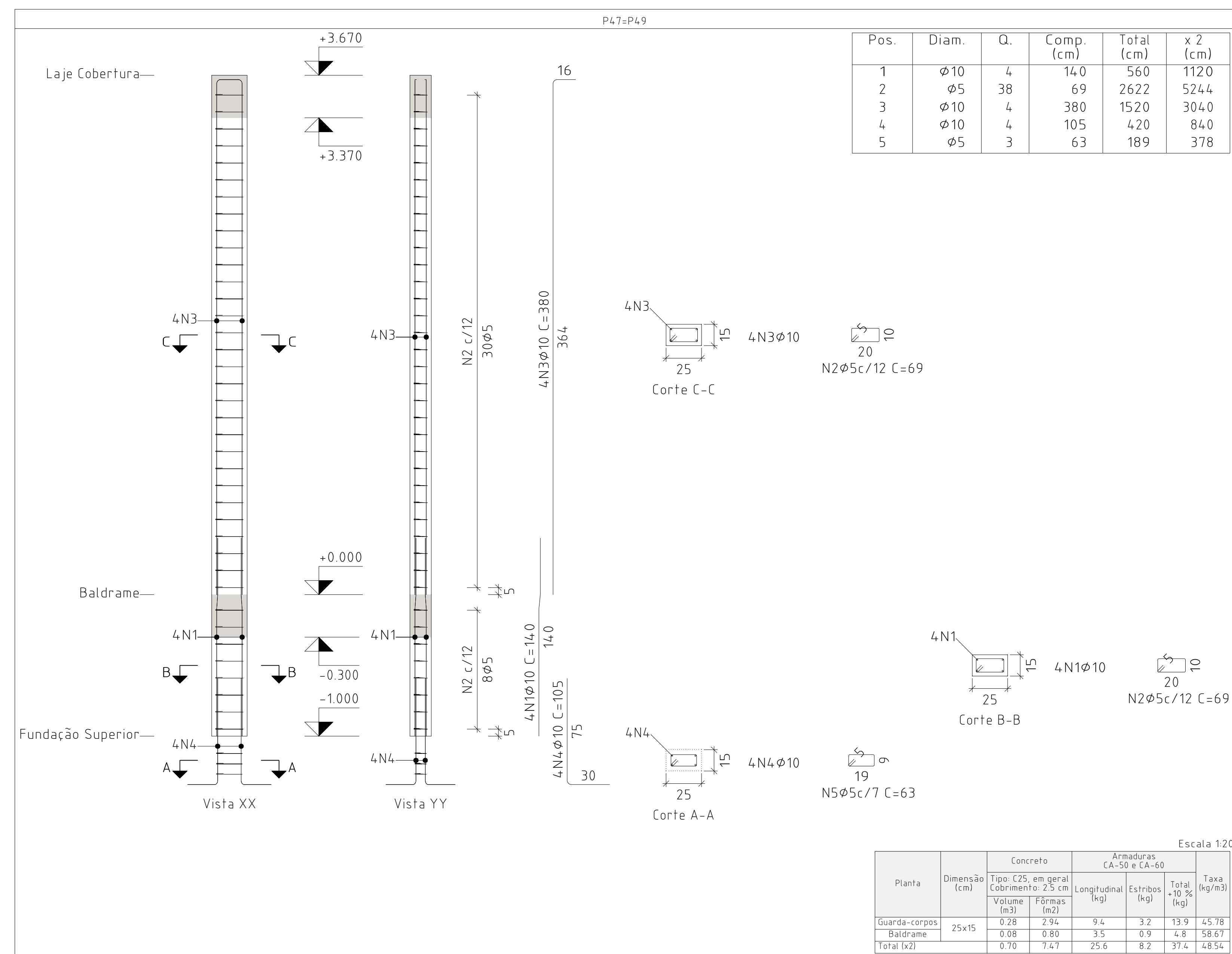


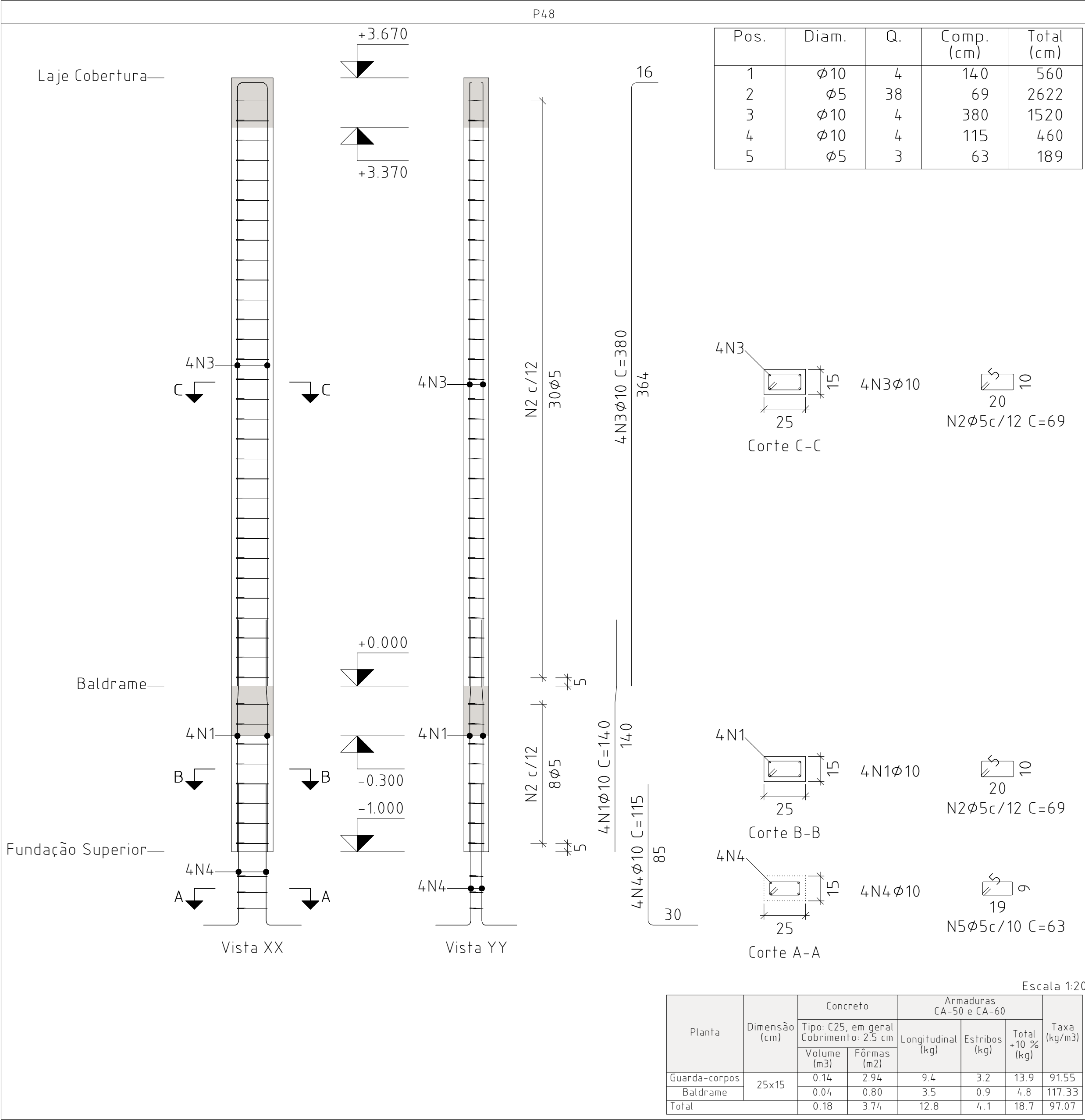
Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



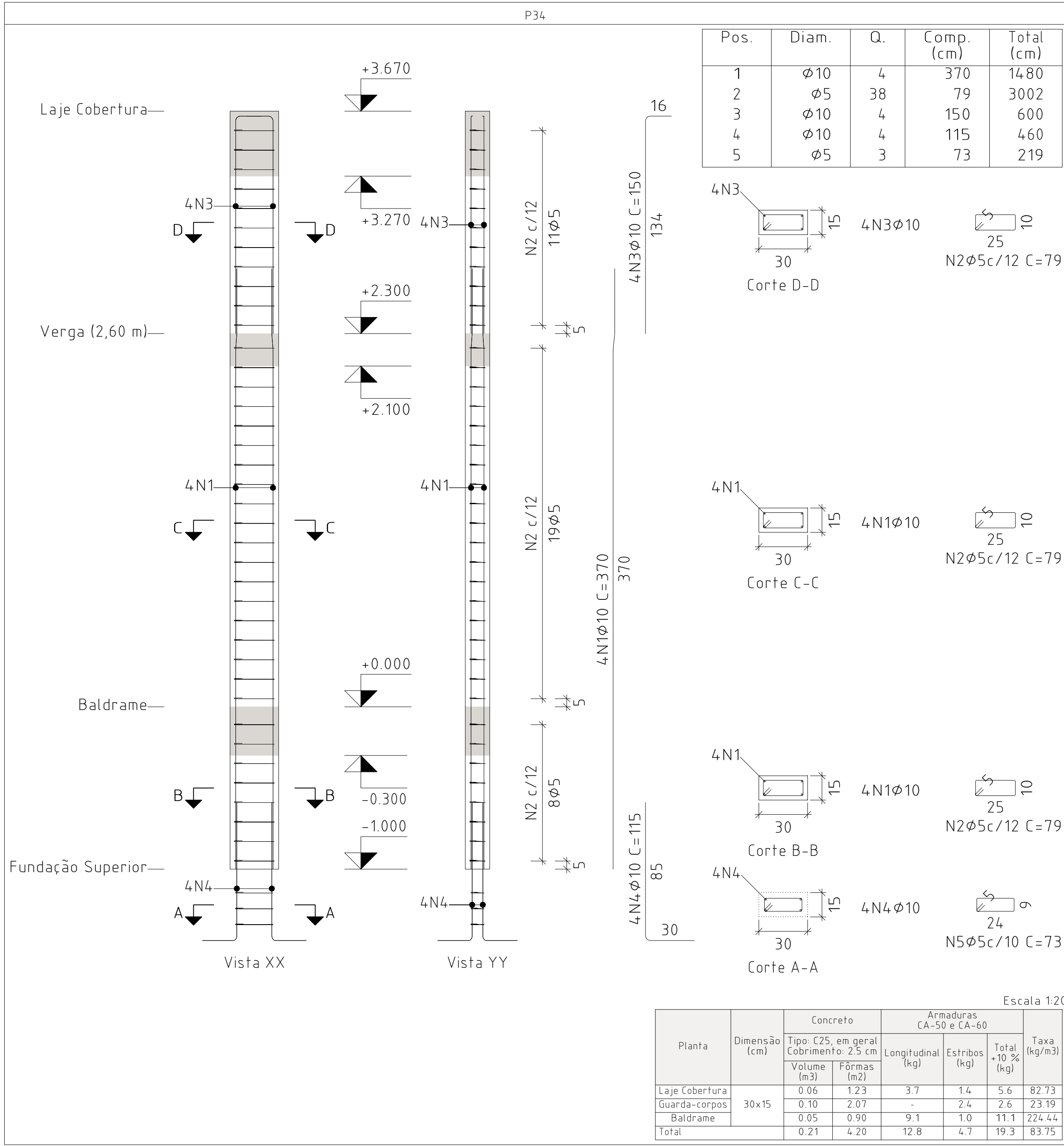
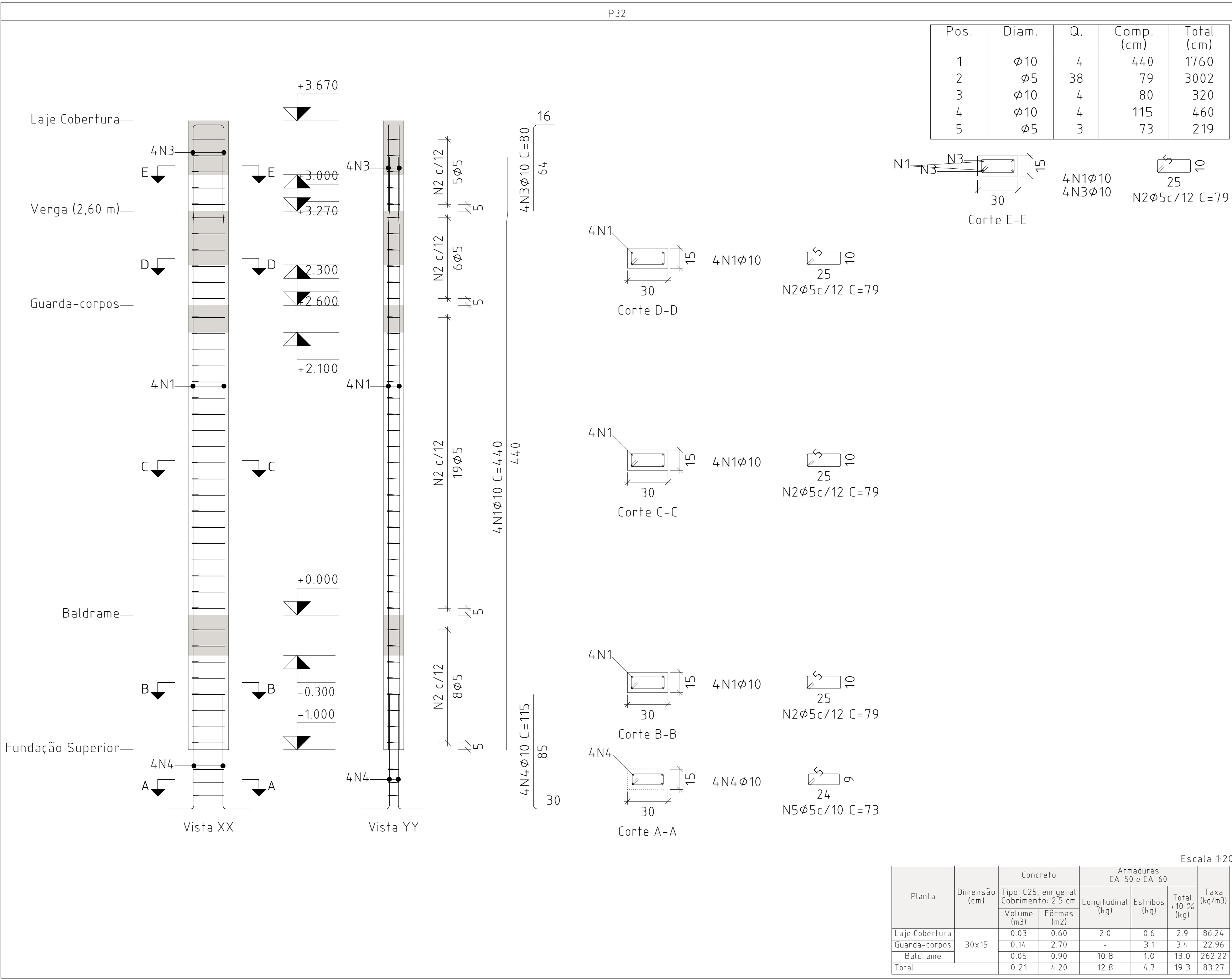
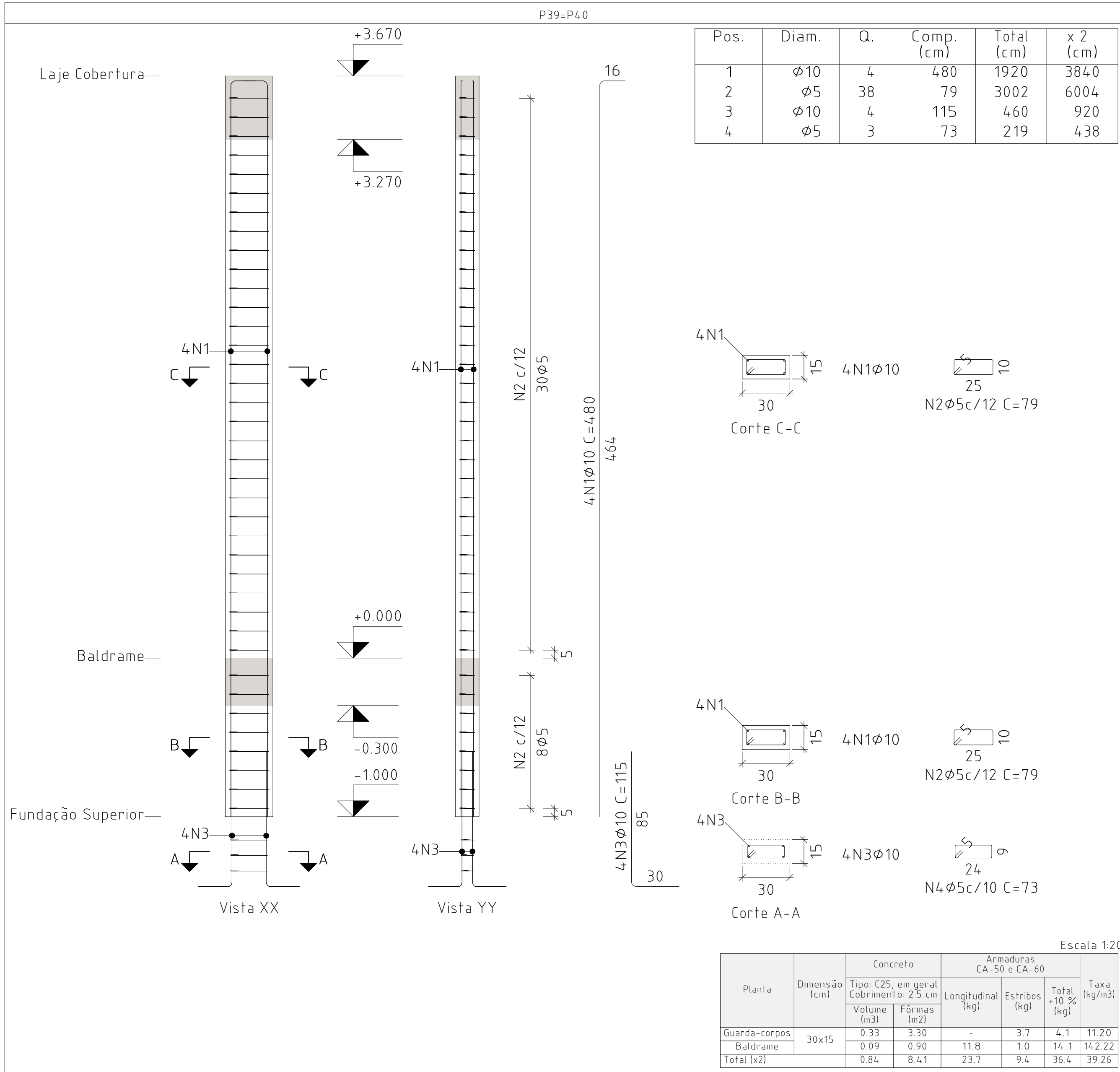
Elemento	Pos	Diam	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P9+P11+P15	1	Ø10	4		420	1680	10.4	
	2	Ø5	38		79	3002		4.7
	3	Ø10	4		100	400	2.5	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		73	219		0.3
P10+P14							Total+10% (x3)	17.3 5.5 16.5
	1	Ø12.5	4		420	1720	16.6	
	2	Ø10	2		105	210		1.3
	3	Ø5	38		99	3762		5.9
	4	Ø5	38		22	836		1.3
	5	Ø12.5	4		100	400	3.9	
	6	Ø10	2		105	210		1.3
	7	Ø12.5	4		125	500	4.8	
	8	Ø10	2		115	230	1.4	
P13	9	Ø5	3		91	273		0.4
							Total+10% (x2)	36.5 8.4 16.8
	1	Ø10	6		420	2520	15.5	
	2	Ø5	38		79	3002		4.7
	3	Ø5	38		22	836		1.3
	4	Ø10	4		100	400	2.5	
	5	Ø10	2		105	210		1.3
P41	6	Ø10	6		115	690	4.3	
	7	Ø5	3		71	213		0.3
							Total+10% (x2)	26.0 6.9
	1	Ø12.5	4		150	900	8.7	
	2	Ø5	38		99	3762		5.9
	3	Ø5	38		22	836		1.3
	4	Ø12.5	6		365	2190	21.1	
	5	Ø12.5	6		125	750	7.2	
	6	Ø5	3		89	267		0.4
	7	Ø5	3		19	57		0.1
							Total+10% (x2)	40.7 8.5
							Ø5 0.0 48.1	
							Ø10 95.9 0.0	
							Ø12.5 96.1 0.0	
							Total 191.4 48.1	



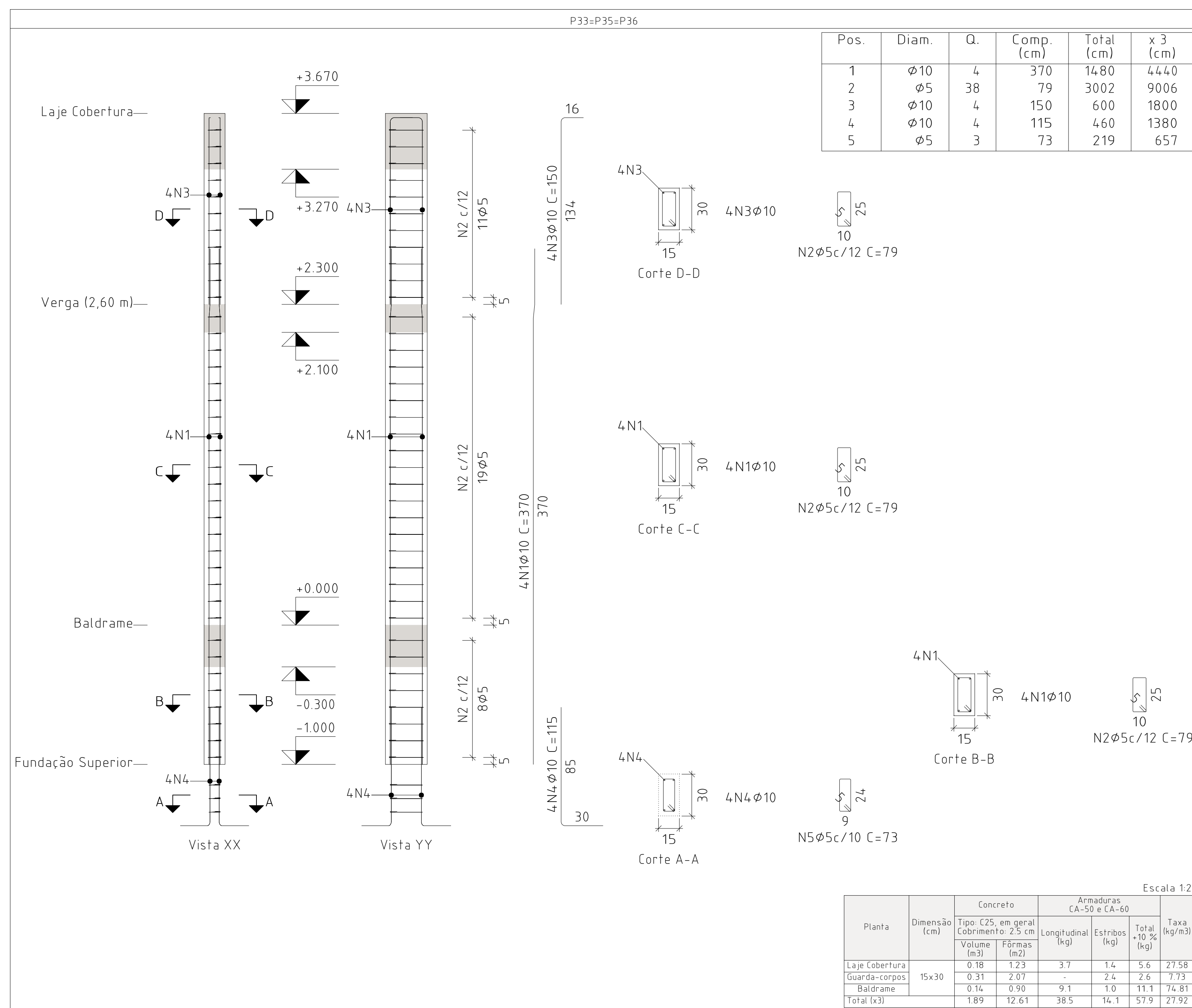
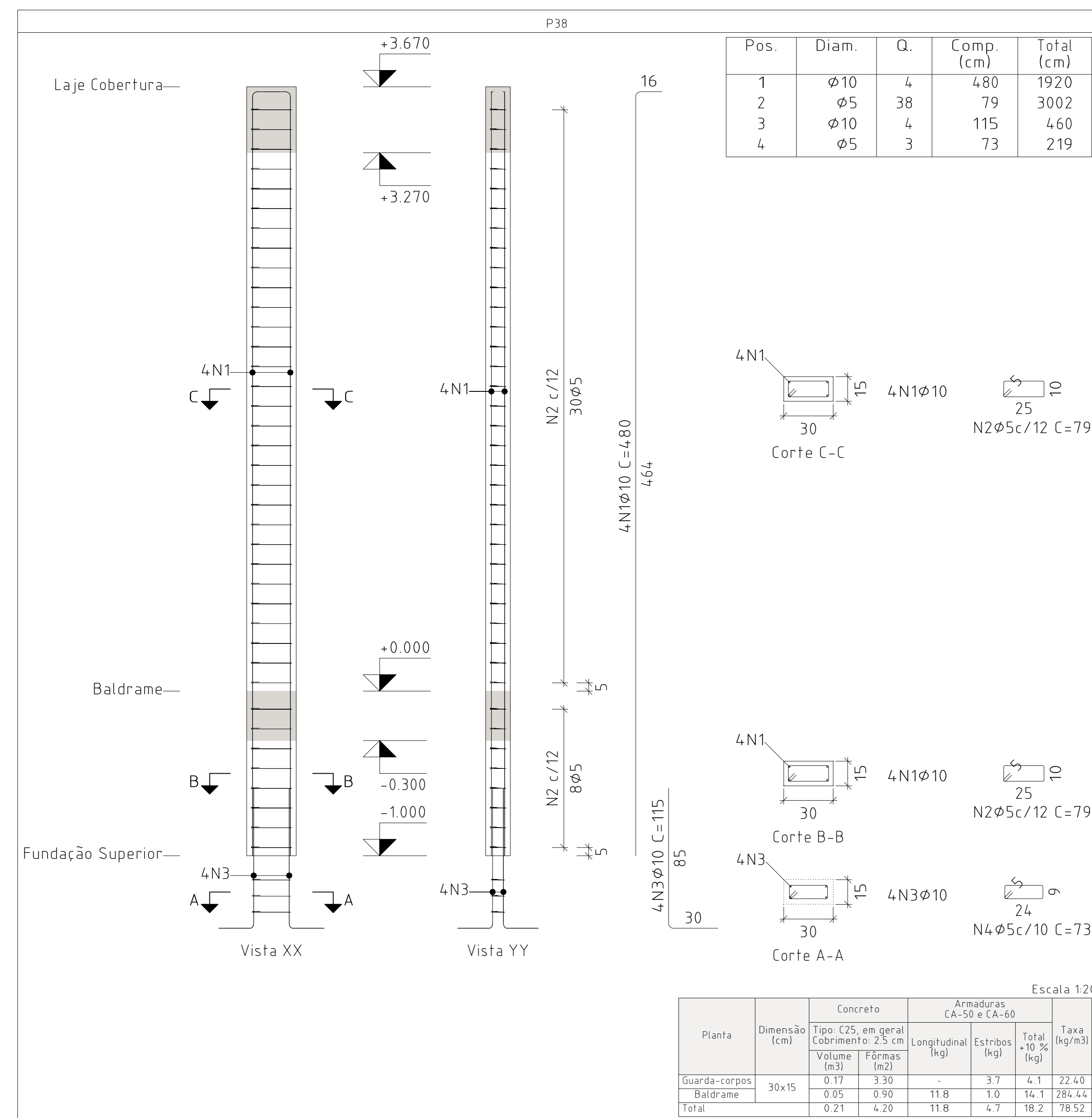
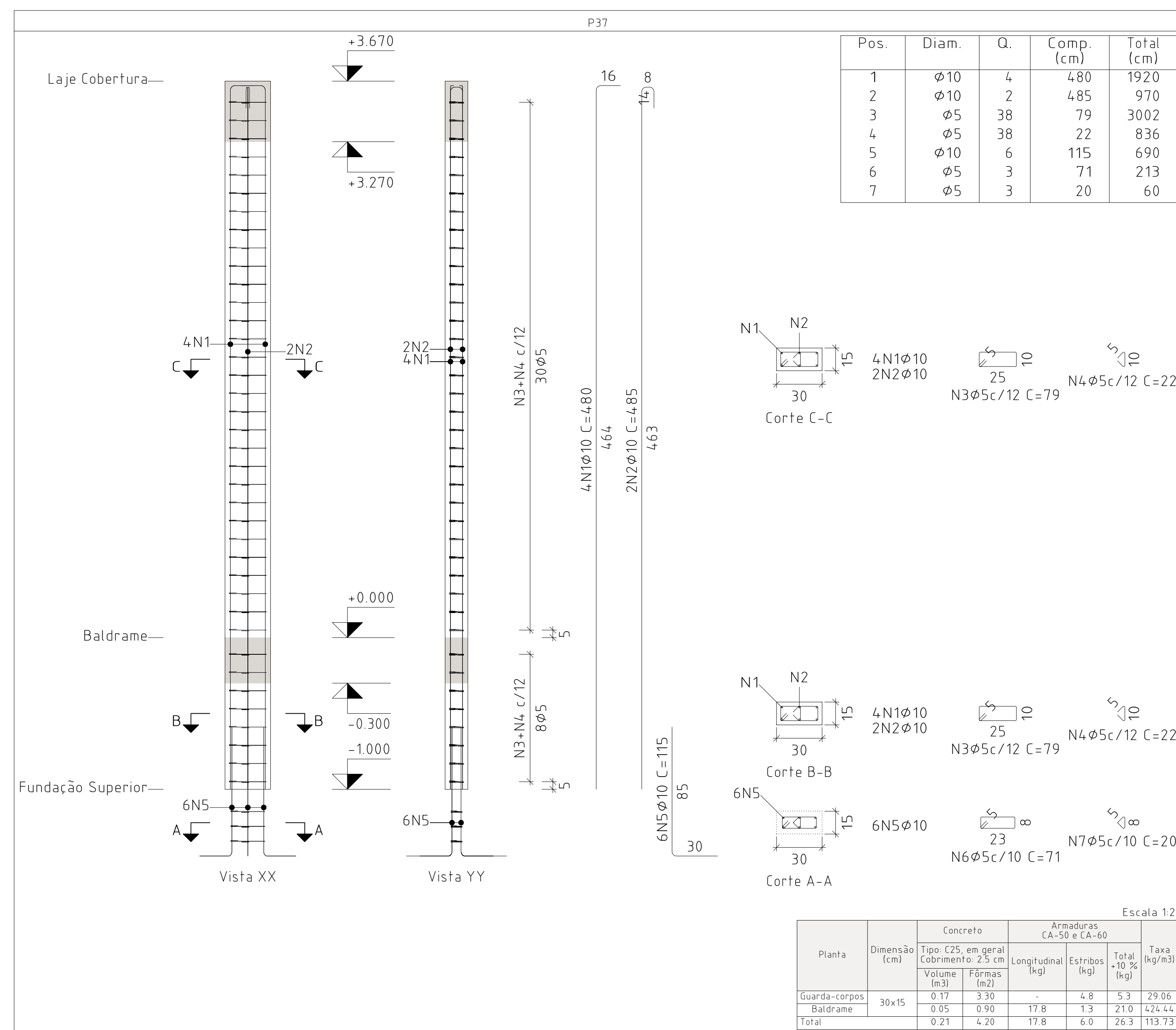
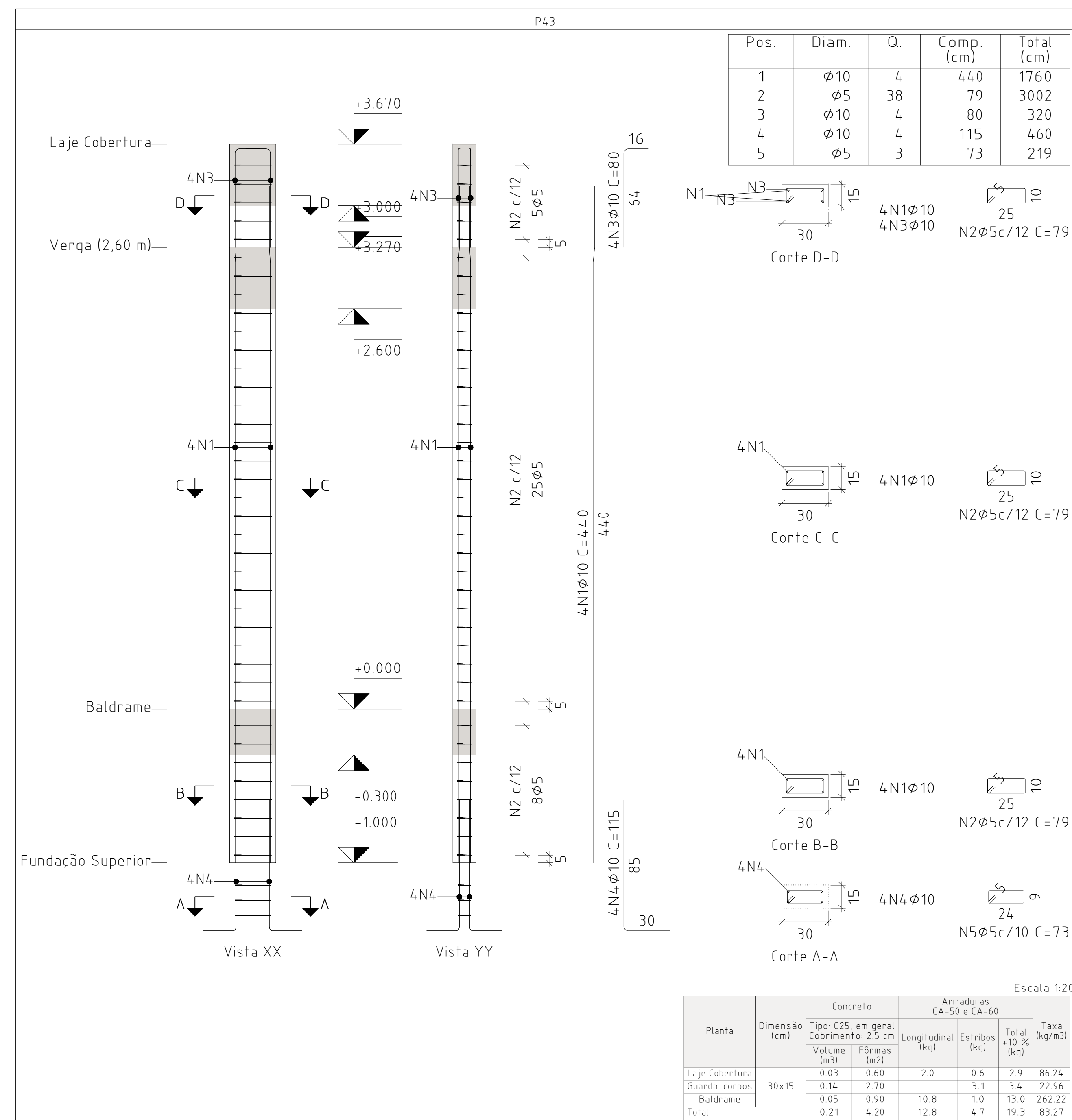




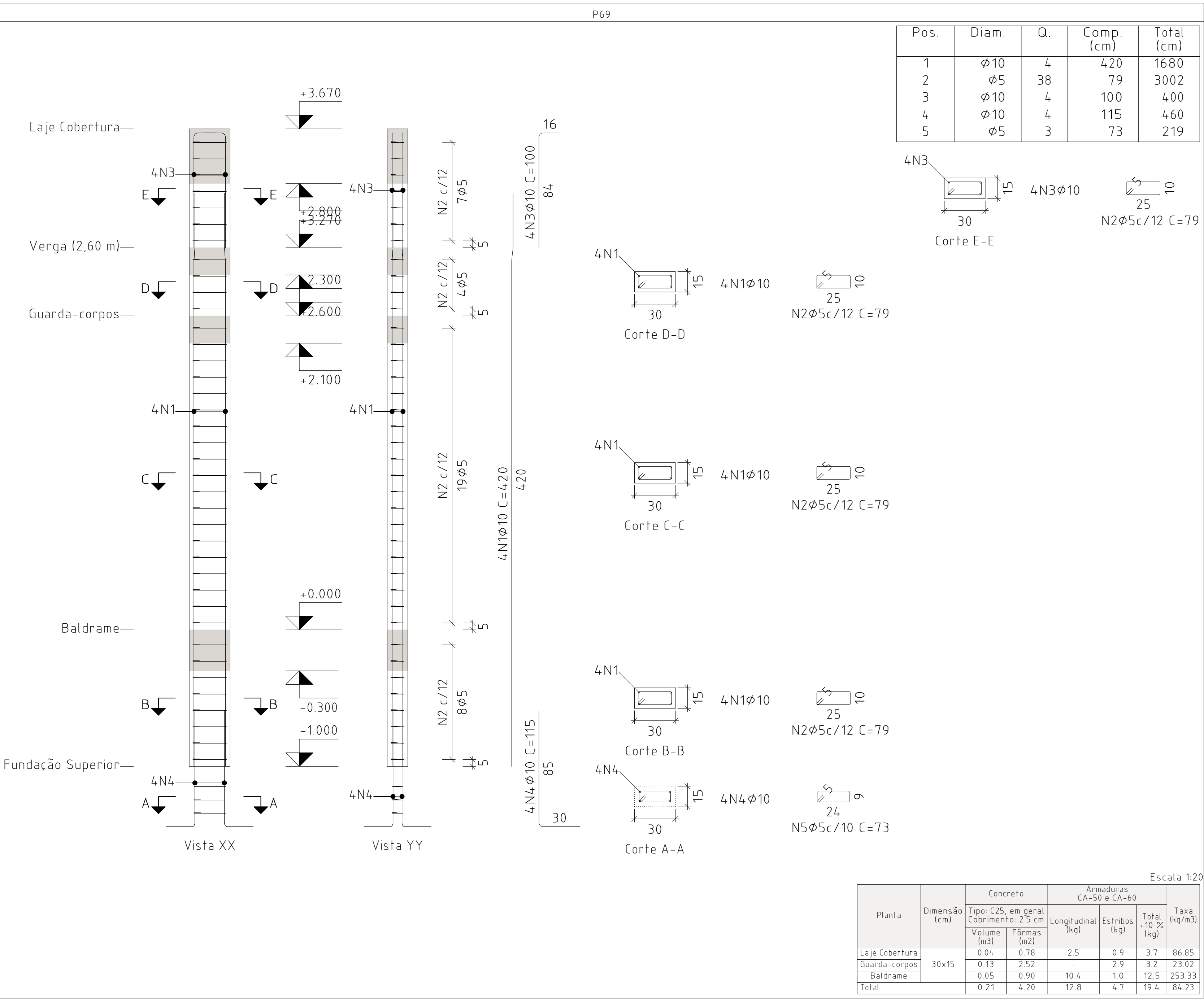
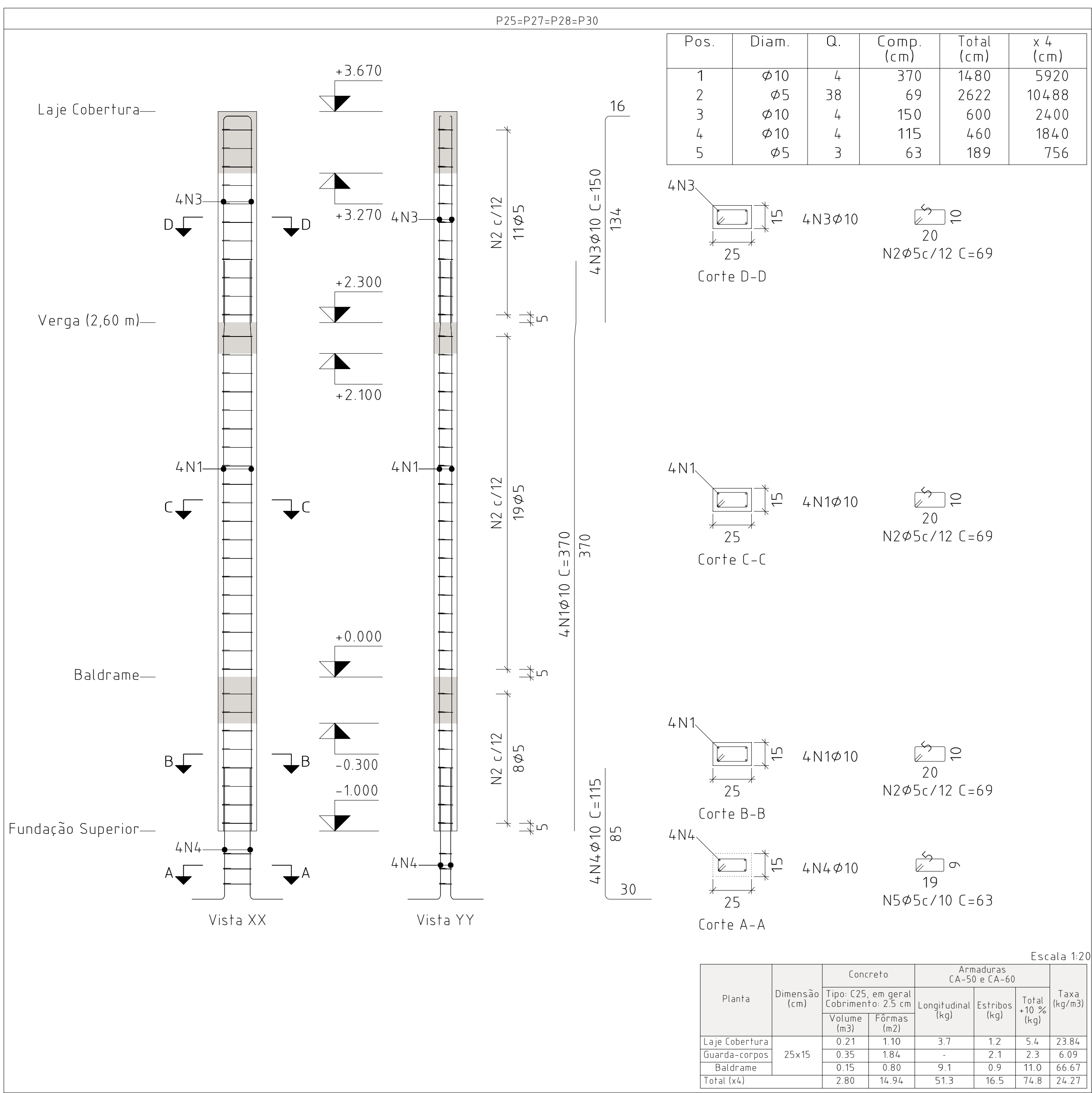
Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P48	1	Ø10	4		140	560	3.5	
	2	Ø5	38		69	2622		4.1
	3	Ø10	4		380	1520	9.4	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		63	189		0.3
Total+10%							17.3	4.8
P32	1	Ø10	4		440	1760	10.8	
	2	Ø5	38		79	3002		4.7
	3	Ø10	4		80	320	2.0	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		73	219		0.3
Total+10%							17.2	5.5
P34	1	Ø10	4		370	1480	9.1	
	2	Ø5	38		79	3002		4.7
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		73	219		0.3
Total+10%							17.2	5.5
P39=P40	1	Ø10	4		480	1920	11.8	
	2	Ø5	38		79	3002		4.7
	3	Ø10	4		115	460	2.8	
	4	Ø5	3		73	219		0.3
Total+10%							16.1	5.5
							Ø5:	0.0
							Ø10:	83.9
							Total:	83.9

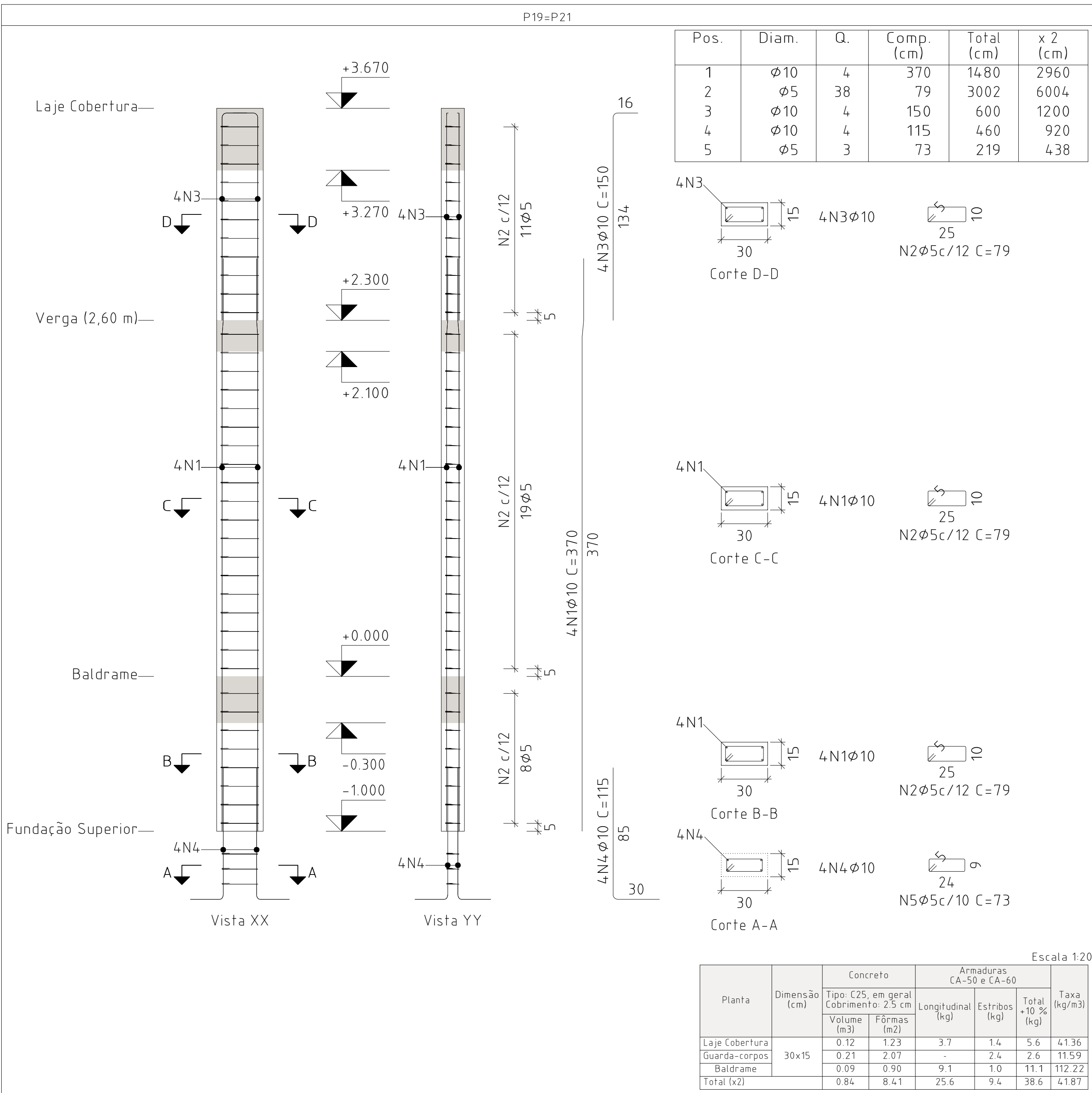
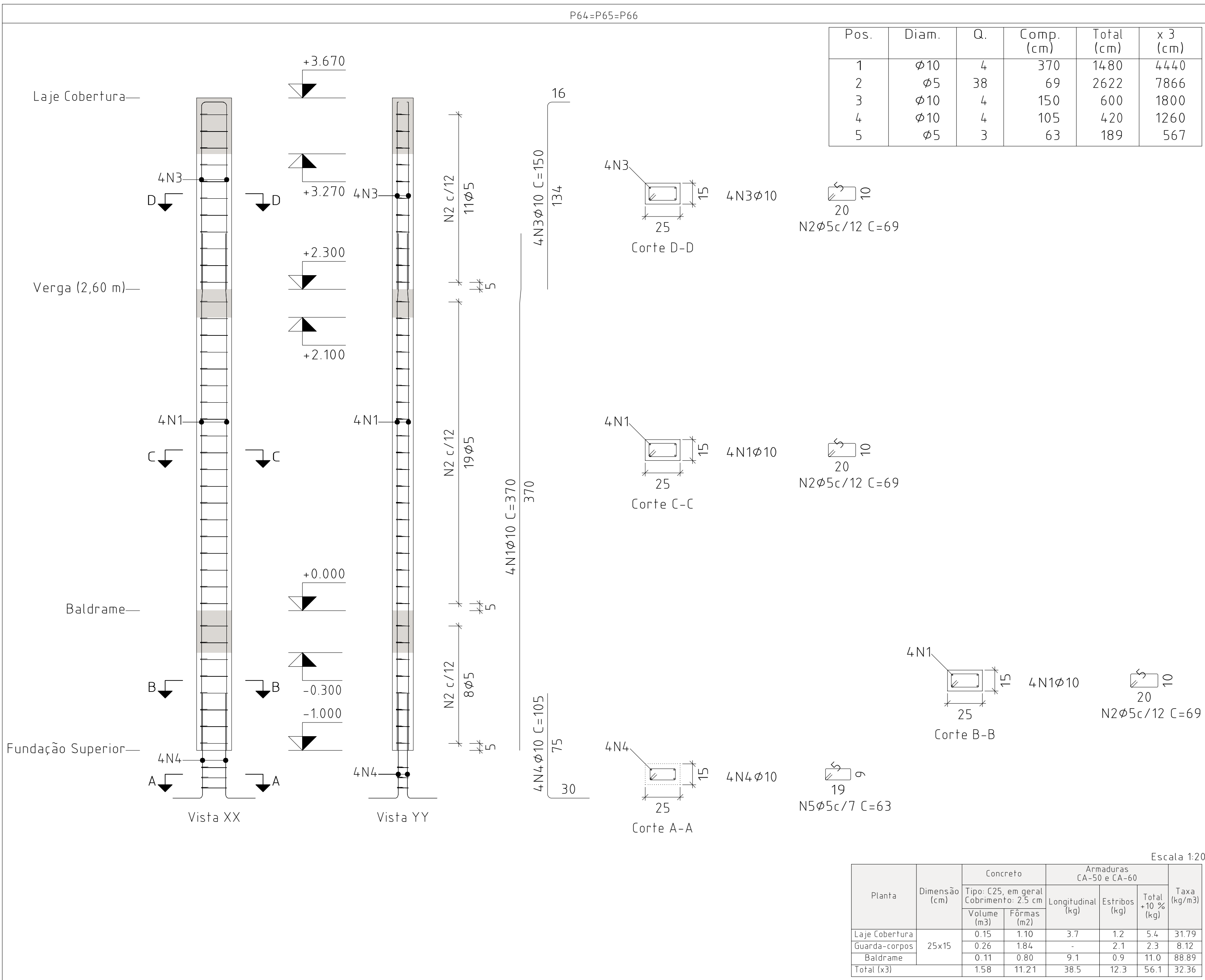


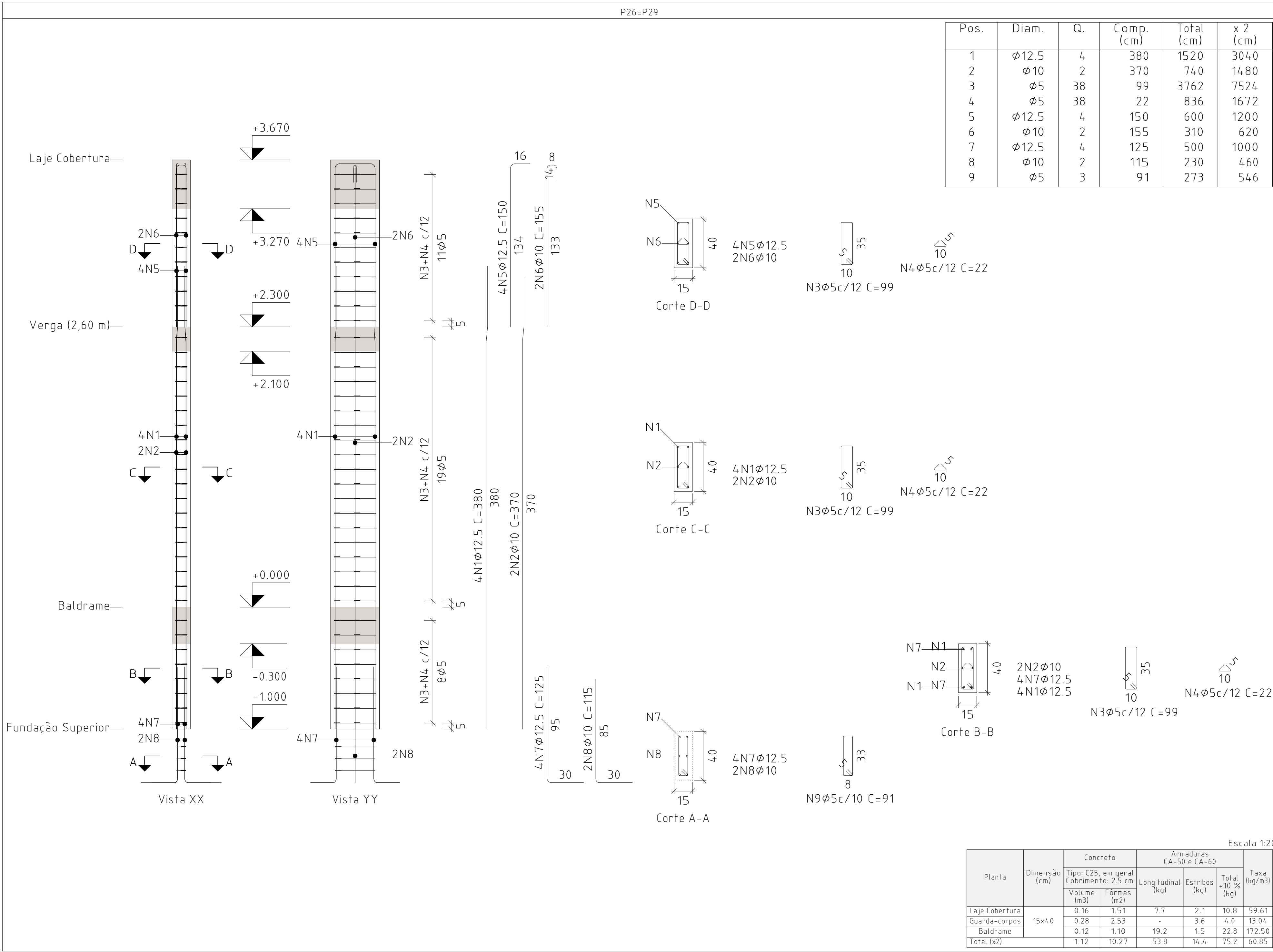
Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
 Concreto: C25, em geral
 Aço das barras: CA-50 e CA-60
 Aço dos estribos: CA-50 e CA-60



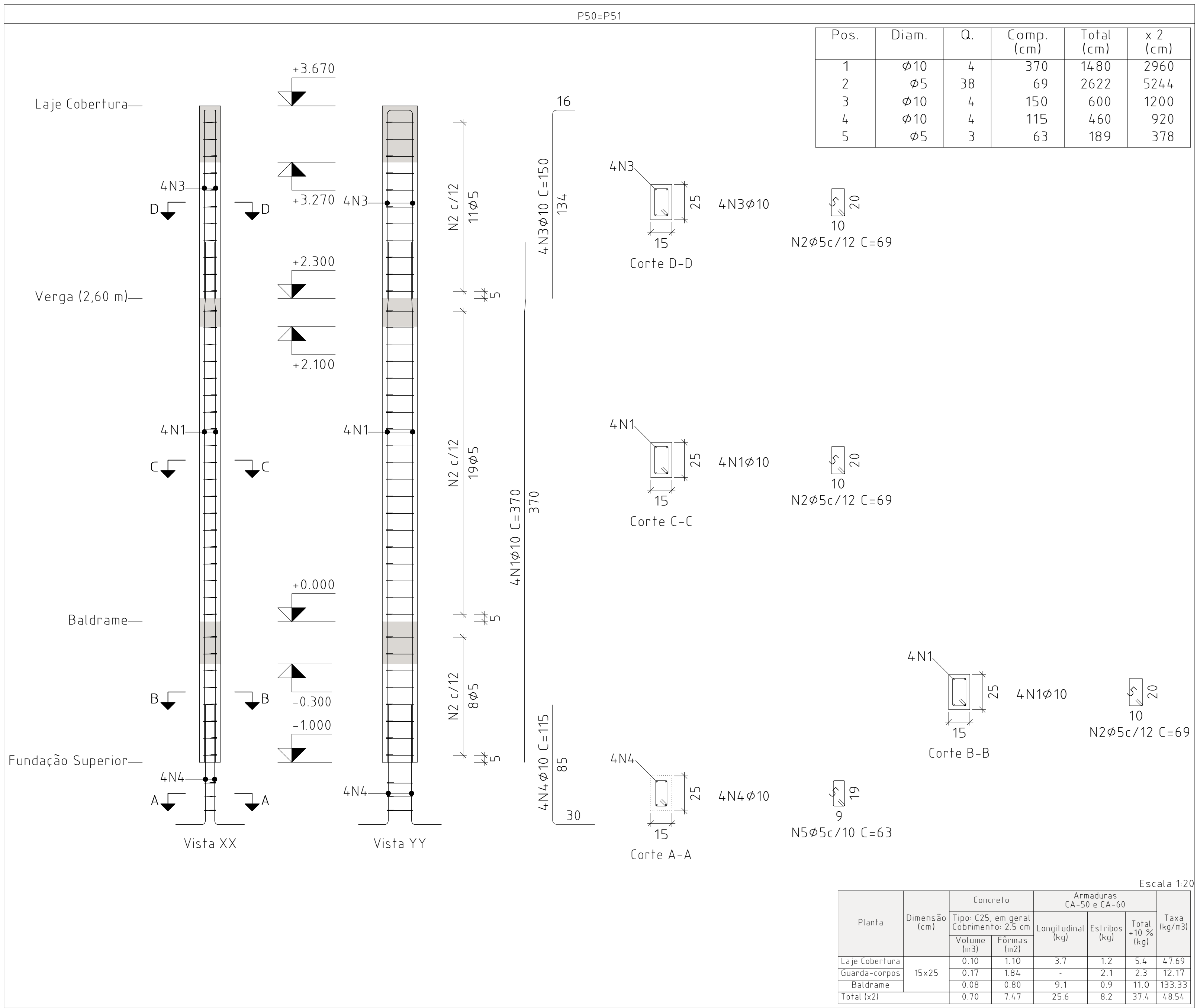
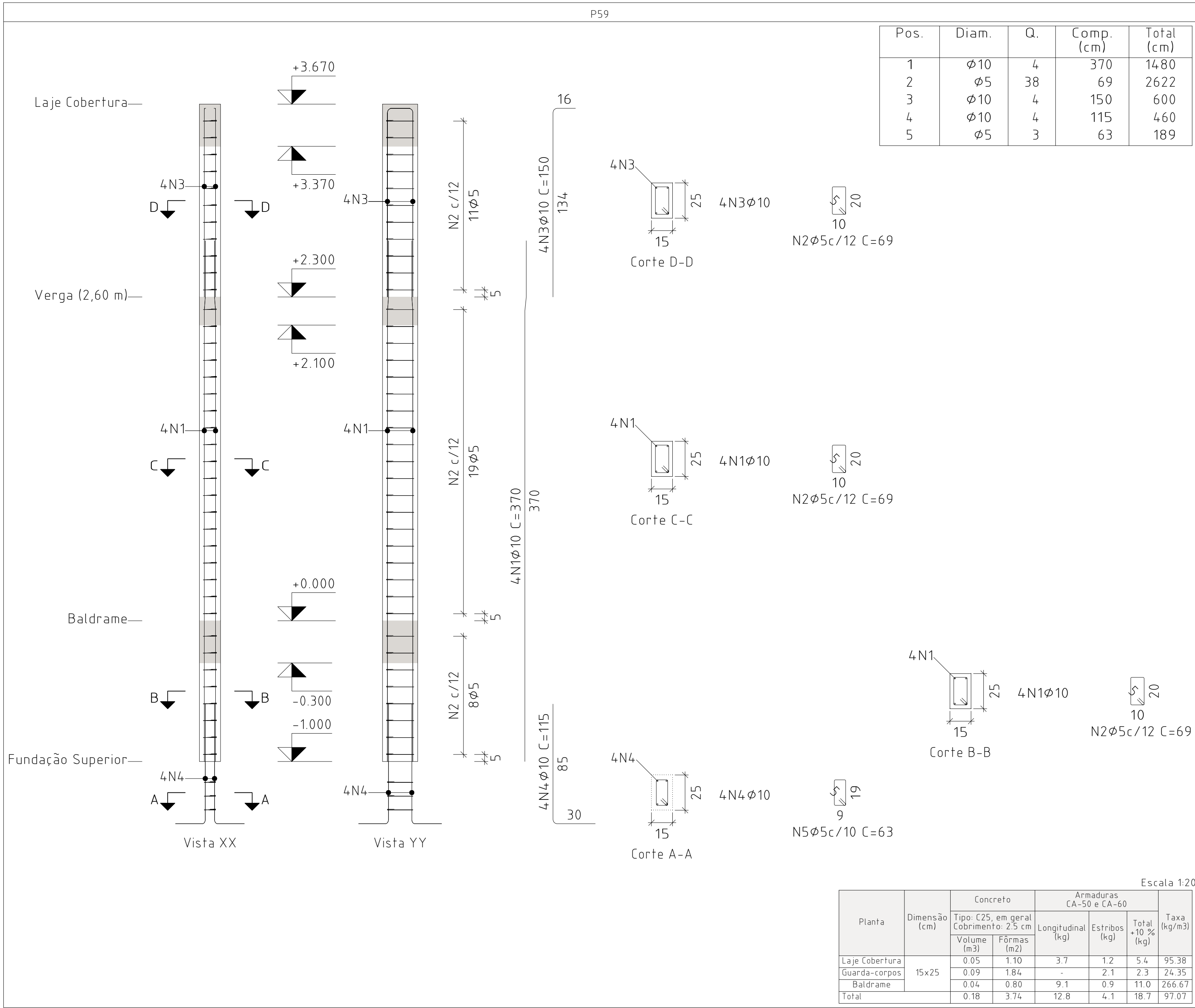
Elemento	Pos	Diam	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P69	1	Ø10	4		420	1680	10,4	
	2	Ø5	38		79	3002		4,7
	3	Ø10	4		100	400	2,5	
	4	Ø10	4		115	460	2,8	
	5	Ø5	3		73	219		0,3
Total+10%							17,3	5,5
P19+P21	1	Ø10	4		370	1480	9,1	
	2	Ø5	38		69	2622		4,7
	3	Ø10	4		150	600	3,7	
	4	Ø10	4		115	460	2,8	
	5	Ø5	3		73	219		0,3
Total+10%							17,2	5,5
Total							34,4	11,0
P25+P27+P28+P30	1	Ø10	4		370	1480	9,1	
	2	Ø5	38		69	2622		4,7
	3	Ø10	4		150	600	3,7	
	4	Ø10	4		115	460	2,8	
	5	Ø5	3		63	189		0,3
Total+10%							17,2	4,8
Total							68,8	19,2
P64+P65+P66	1	Ø10	4		370	1480	9,1	
	2	Ø5	38		69	2622		4,7
	3	Ø10	4		150	600	3,7	
	4	Ø10	4		105	420	2,6	
	5	Ø5	3		63	189		0,3
Total+10%							16,9	4,8
Total							50,7	14,4
Ø5							0,0	50,1
Ø10							171,2	0,0
Total							171,2	50,1

Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60





Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



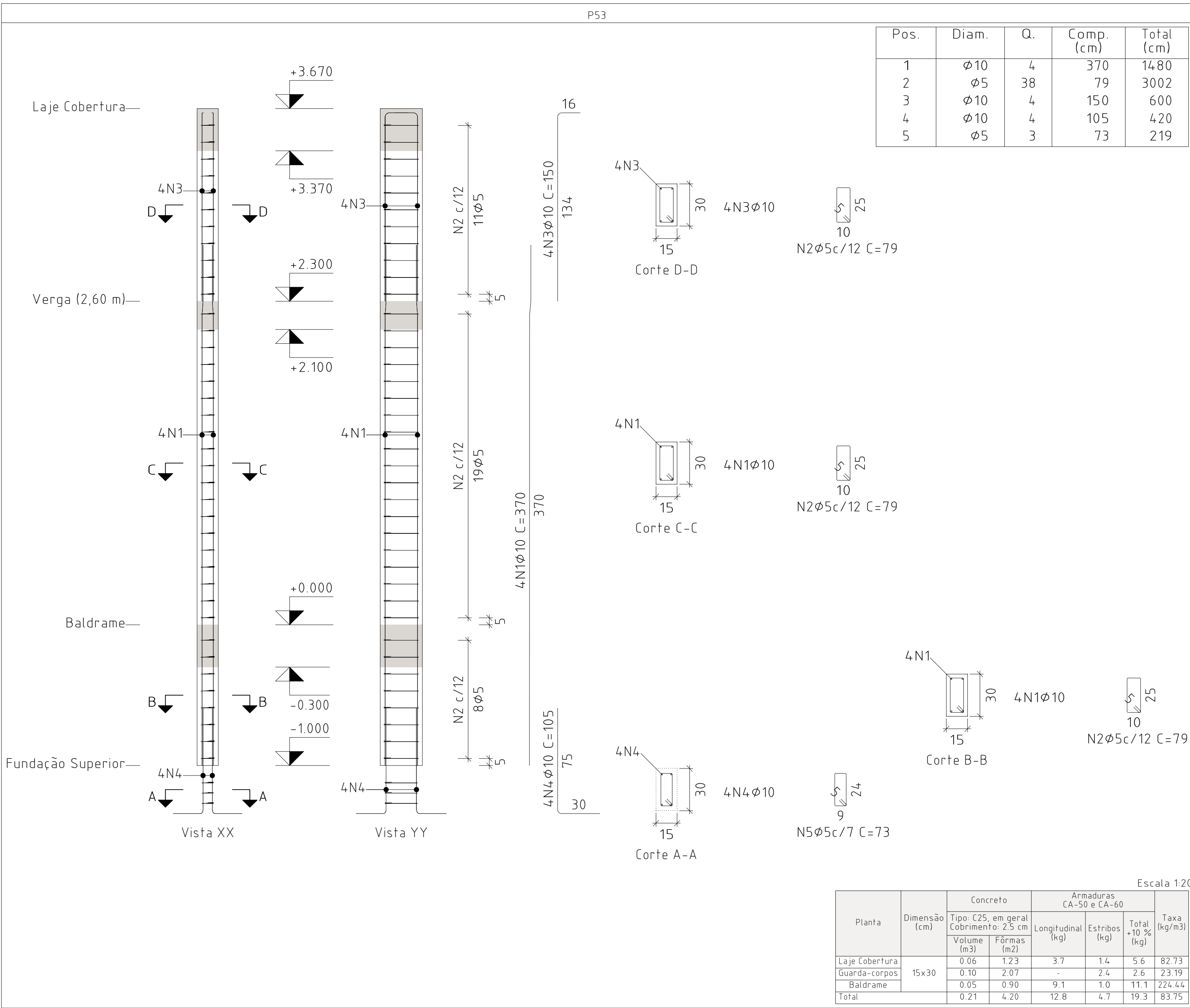
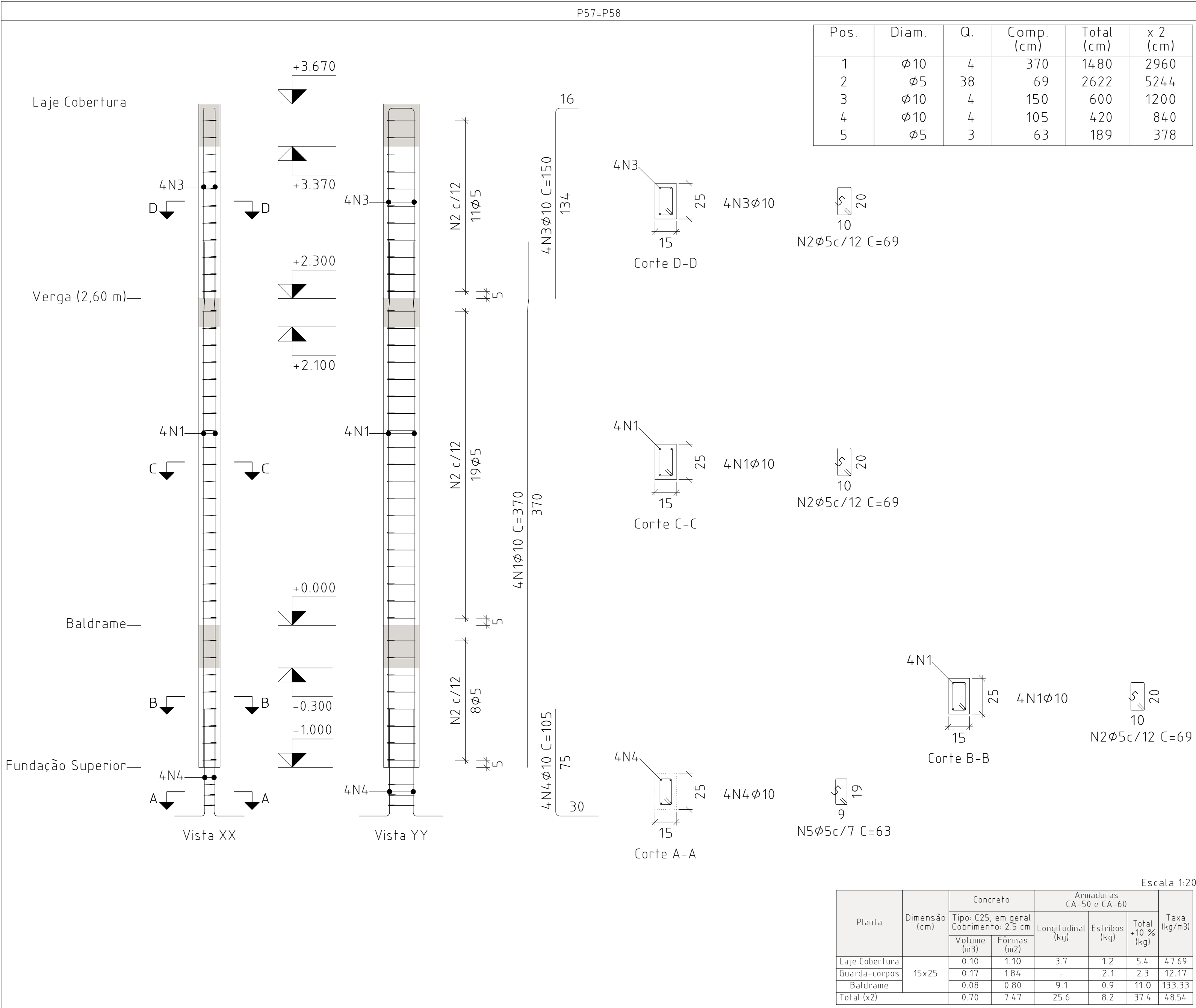
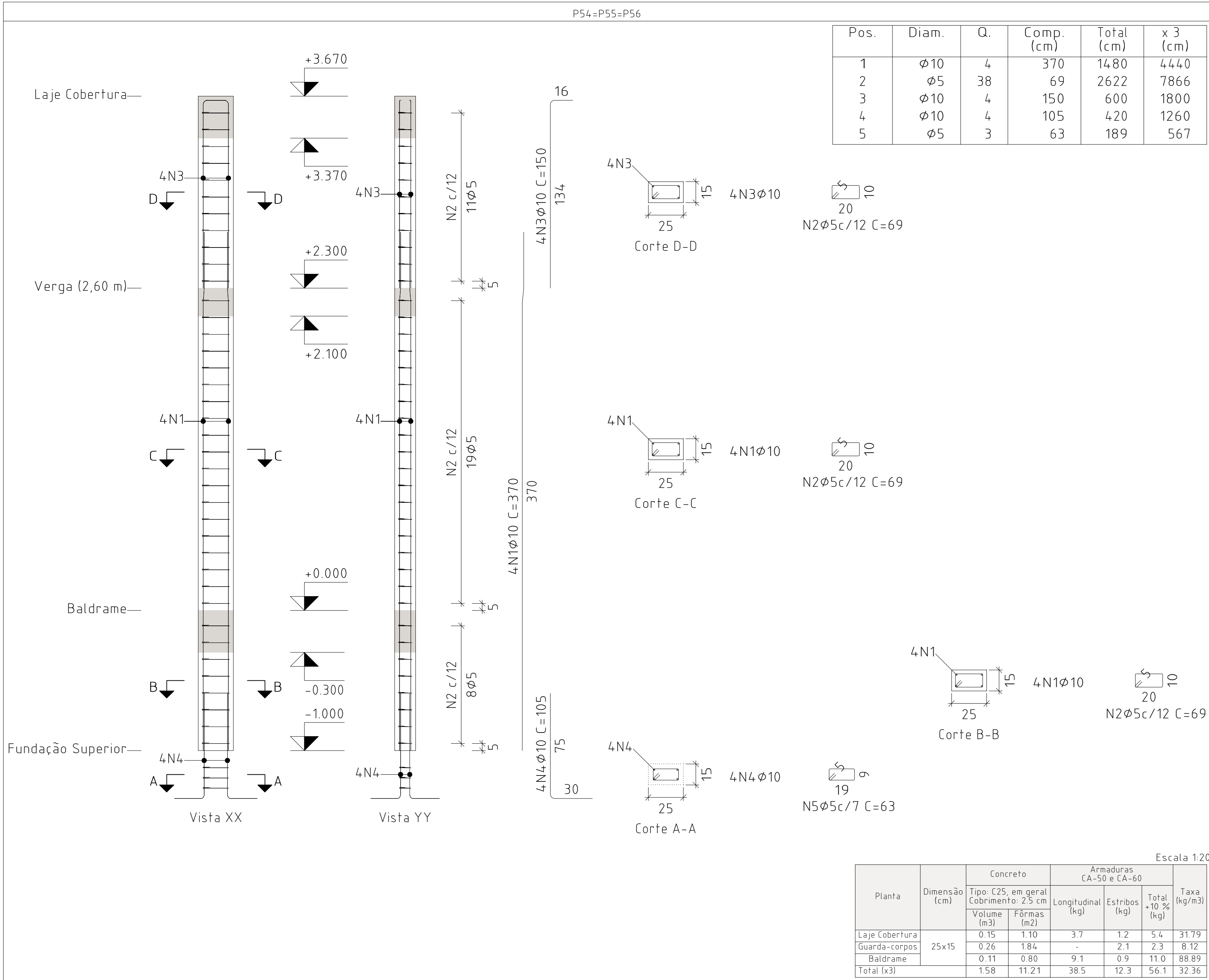
Elemento	Pos	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P26+P29	1	Ø12.5	4		380	1520	14.6	
	2	Ø10	2		740	740	4.6	
	3	Ø5	38		99	3762		5.9
	4	Ø5	38		22	836		1.3
	5	Ø12.5	4		150	600	5.8	
	6	Ø10	2		155	310	1.9	
	7	Ø12.5	4		125	500	4.8	
	8	Ø10	2		115	230	1.4	
	9	Ø5	3		91	273		0.4
							Total: 105% (x2)	36.4
P50+P51	1	Ø10	4		1480	1480	9.1	
	2	Ø5	38		69	2622		4.1
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		63	189		0.3
							Total: 105% (x2)	17.2
P59	1	Ø10	4		1480	1480	9.1	
	2	Ø5	38		69	2622		4.1
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		115	460	2.8	
	5	Ø5	3		63	189		0.3
							Total: 105% (x2)	17.2
P53	1	Ø10	4		1480	1480	9.1	
	2	Ø5	38		79	3002		4.7
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		105	420	2.6	
	5	Ø5	3		73	219		0.3
							Total: 105% (x2)	16.9
						Ø5: 0.0	36.7	
						Ø10: 85.9	0.0	
						Ø12.5: 55.4	0.0	
						Total: 141.3	36.7	

IDENTIFICAÇÃO DA OBRA:	PROJETO ESTRUTURAL - AMPLIAÇÃO DO CEMEI MENINO JESUS II
CONTEÚDO:	DETALHAMENTO DOS PILARES (9/10)
ENDEREÇO:	RUA DR. PINTO DE OLIVEIRA, 564, VILA COLI, ELÓI MENDES - MG
RESP. TÉCNICO: BRUNO AMBRÓSIO COELHO CREA: MG-325.624	
PRÓPRIETÁRIO: PREFEITURA MUNICIPAL DE ELÓI MENDES CNPJ: 20.347.225/0001-26	
DATA:	AGOSTO/2026
PRANCHA:	12/18

Elemento	Pos	Diam.	Q.	Esquema (cm)	Comp (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P54-P55-P56	1	Ø10	4		370	1480	9.1	
	2	Ø5	38		69	2622		4.1
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		105	420	2.6	
	5	Ø5	3		63	189		0.3
						Total+10% (x2)	16.9	4.8
							50.7	14.4
P57-P58	1	Ø10	4		370	1480	9.1	
	2	Ø5	38		69	2622		4.1
	3	Ø10	4		150	600	3.7	
	4	Ø10	4		105	420	2.6	
	5	Ø5	3		63	189		0.3
						Total+10% (x2)	16.9	4.8
							50.7	14.4
						Ø5	0.0	24.0
						Ø10	84.5	0.0
						Total	84.5	24.0

Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø8	57.0	25	
Ø10	1680.8	1139	
Ø12.5	209.2	222	1386
CA-60 Ø5	2324.1	401	401
Total			1787

Pilares que nascem em Fundação Superior e chegam em Laje Cobertura
Concreto: C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60



IDENTIFICAÇÃO DA OBRA: PROJETO ESTRUTURAL - AMPLIAÇÃO DO CEMEI MENINO JESUS II
CONTEÚDO: DETALHAMENTO DOS PILARES (10/10)

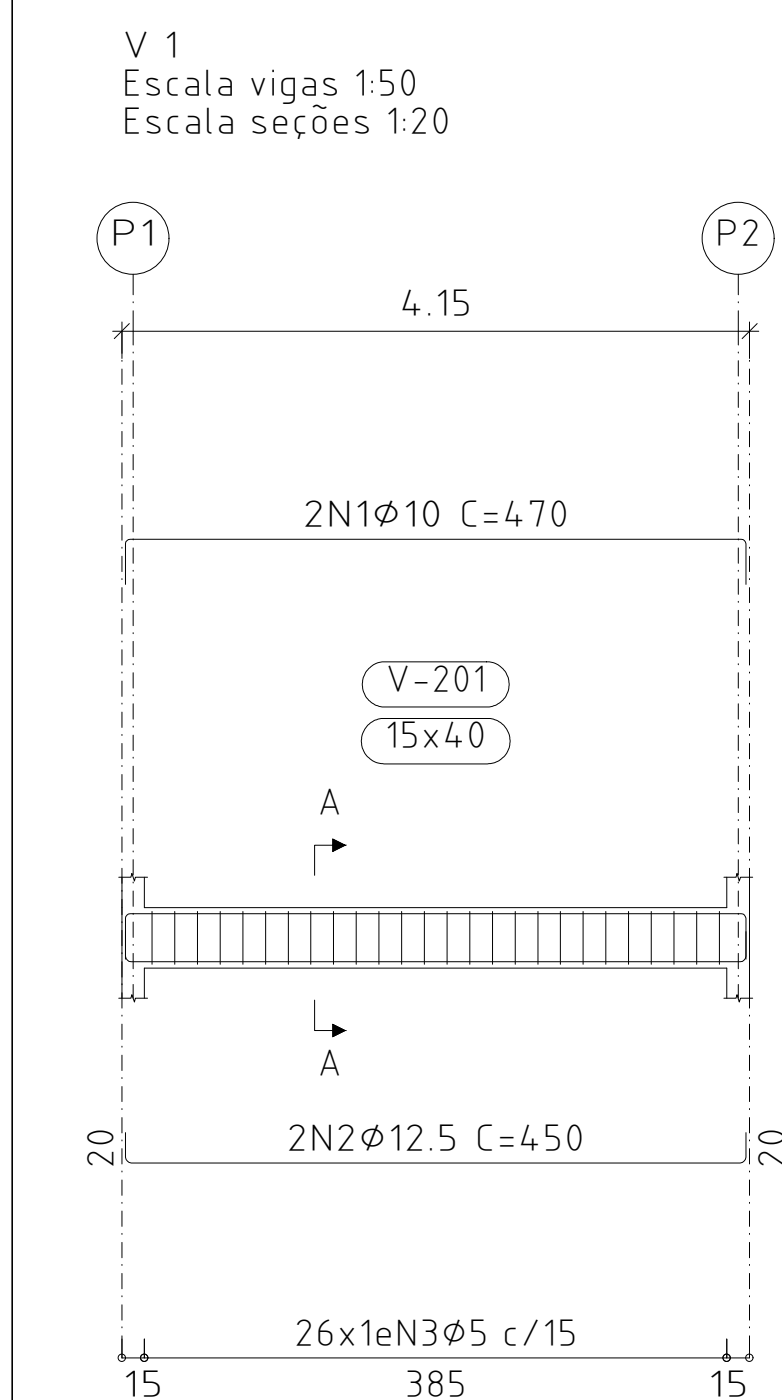
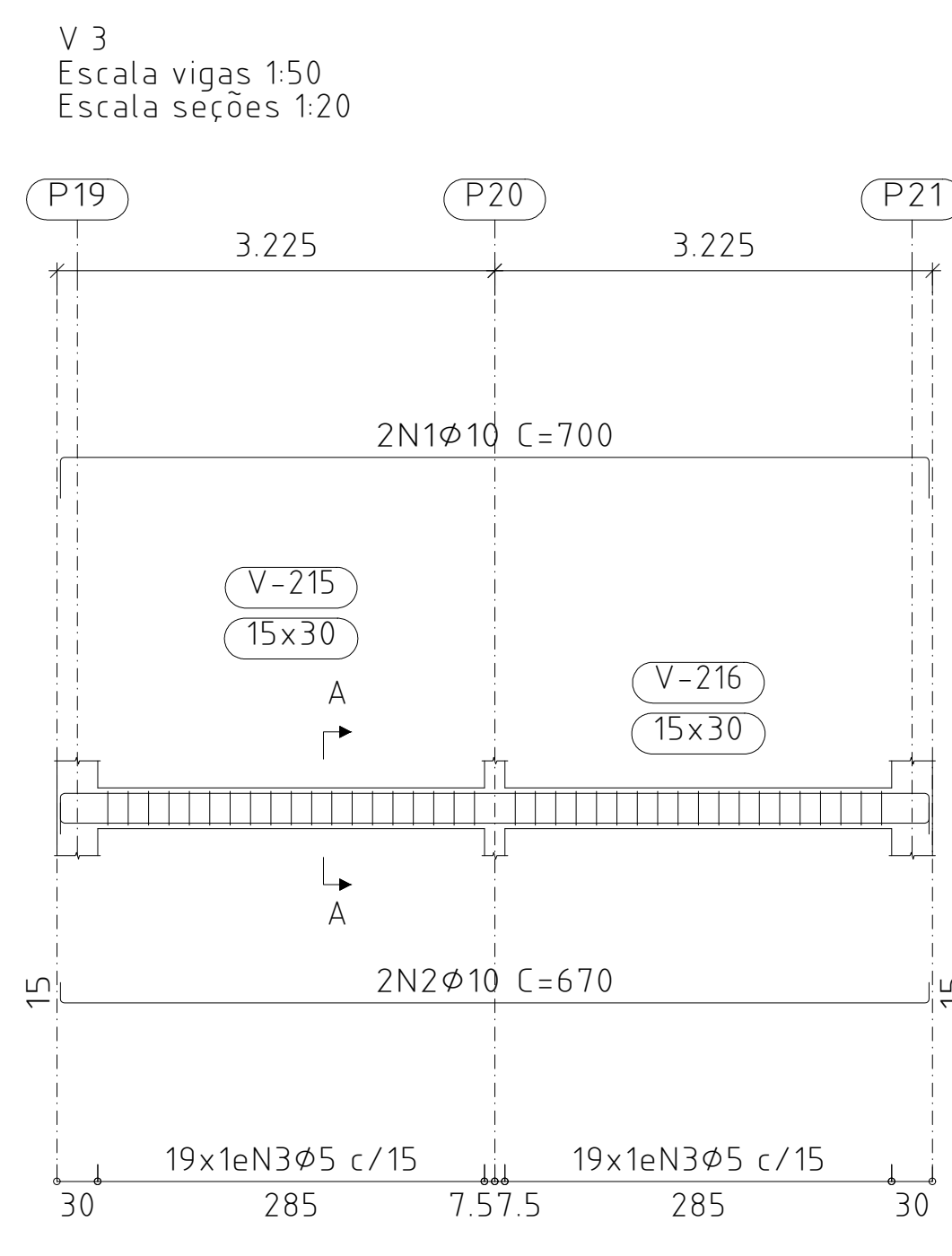
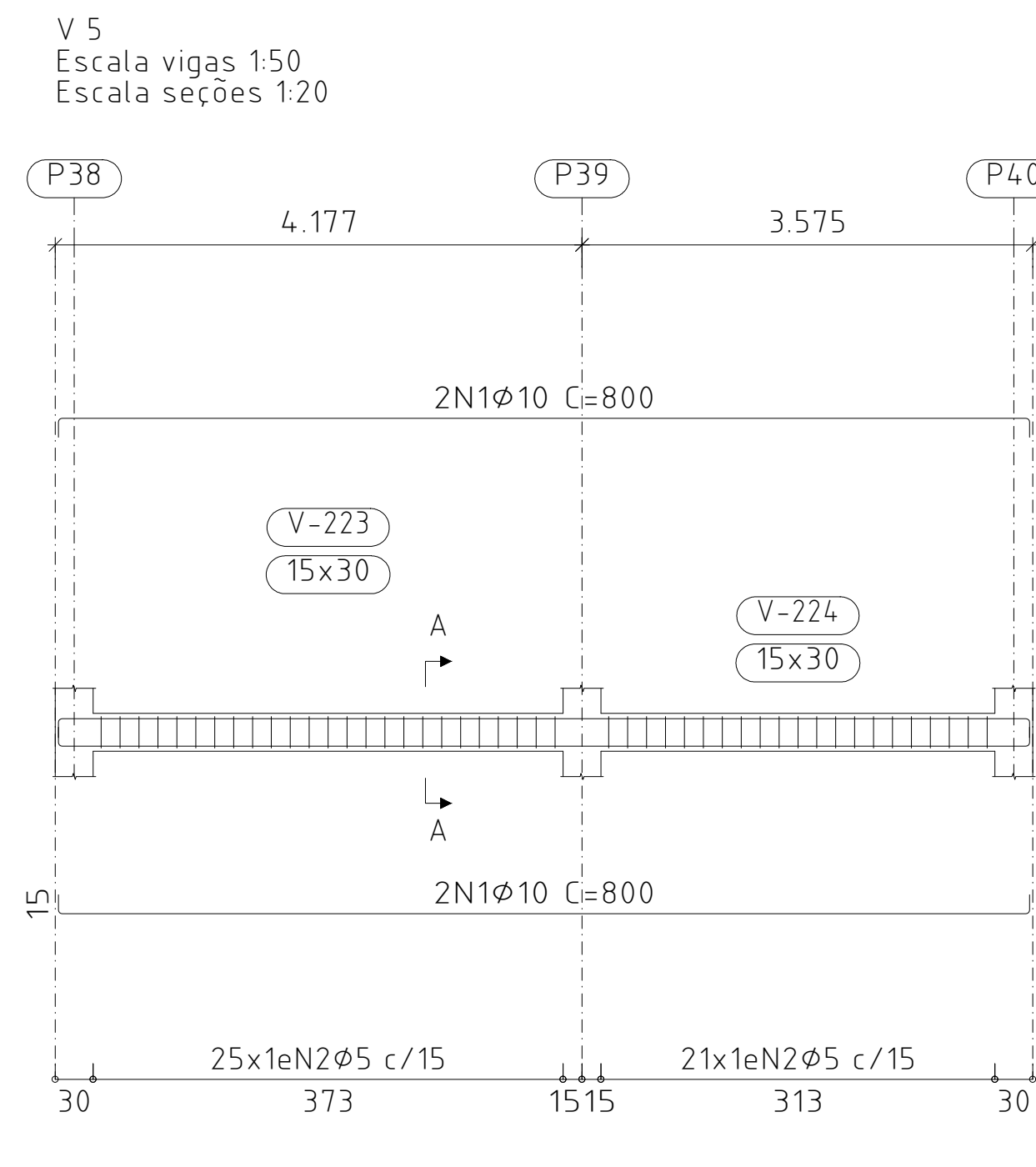
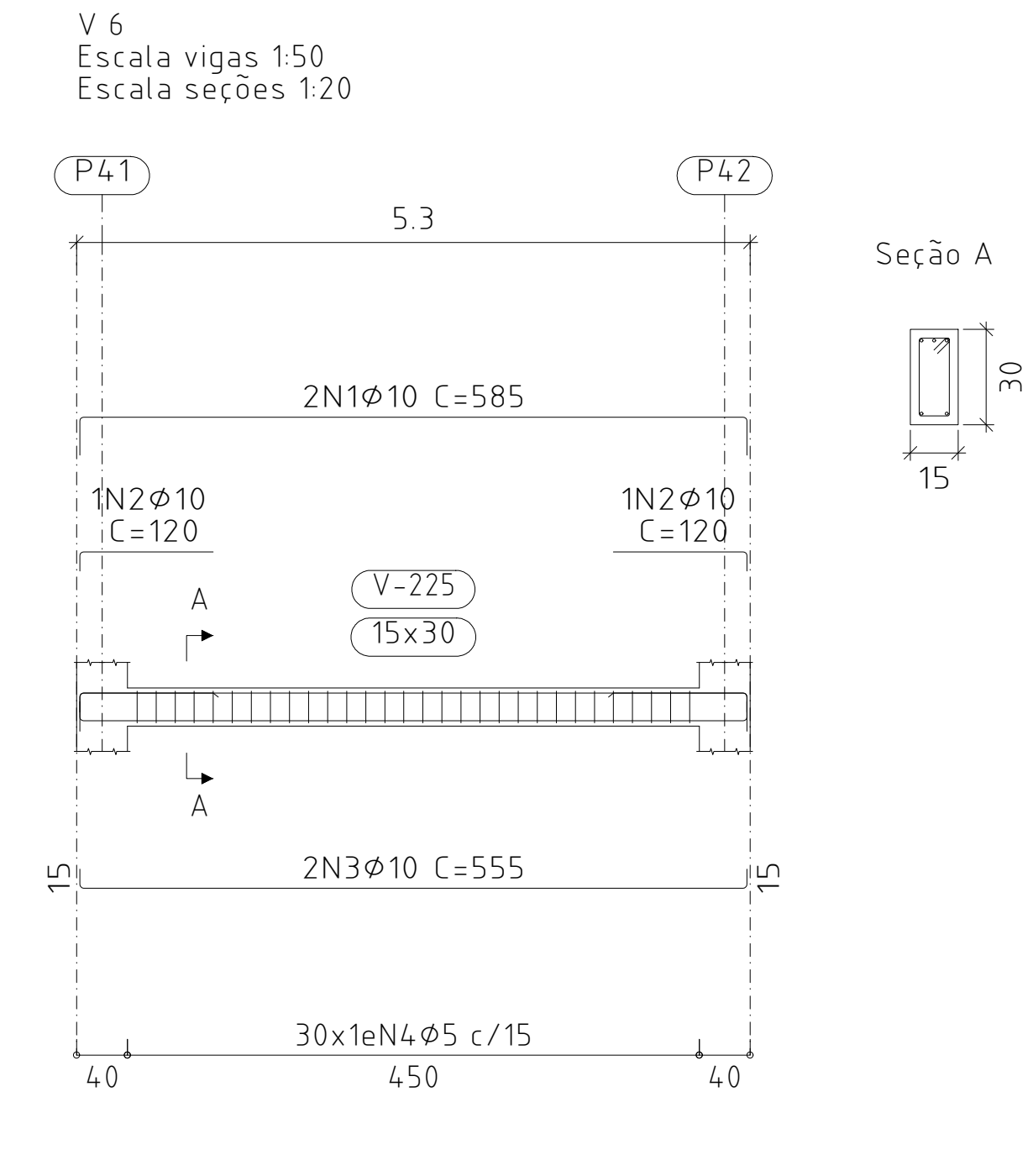
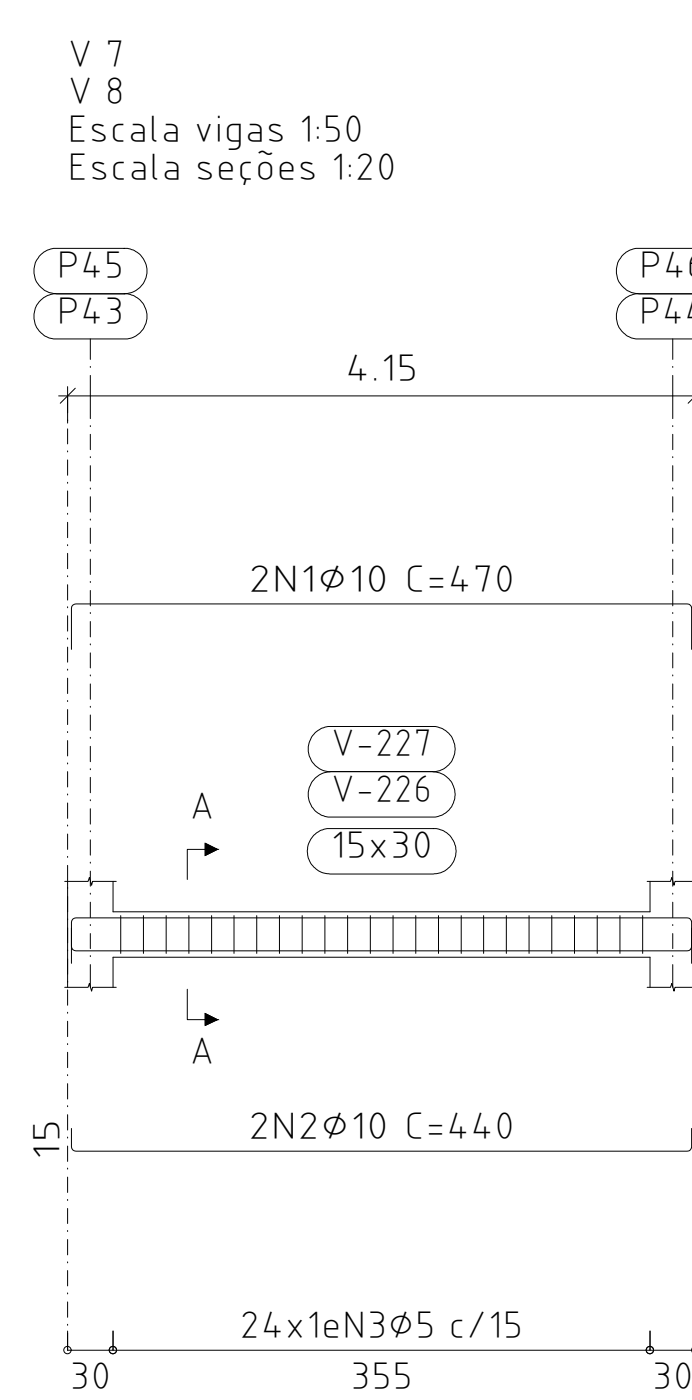
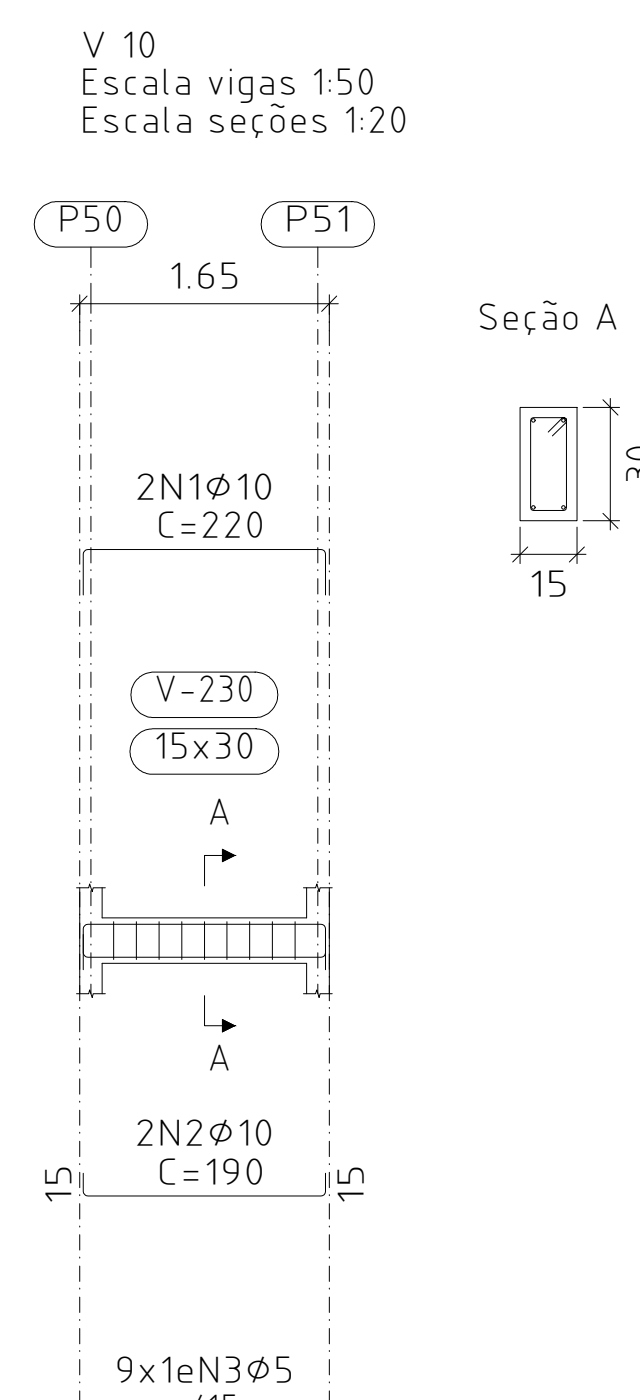
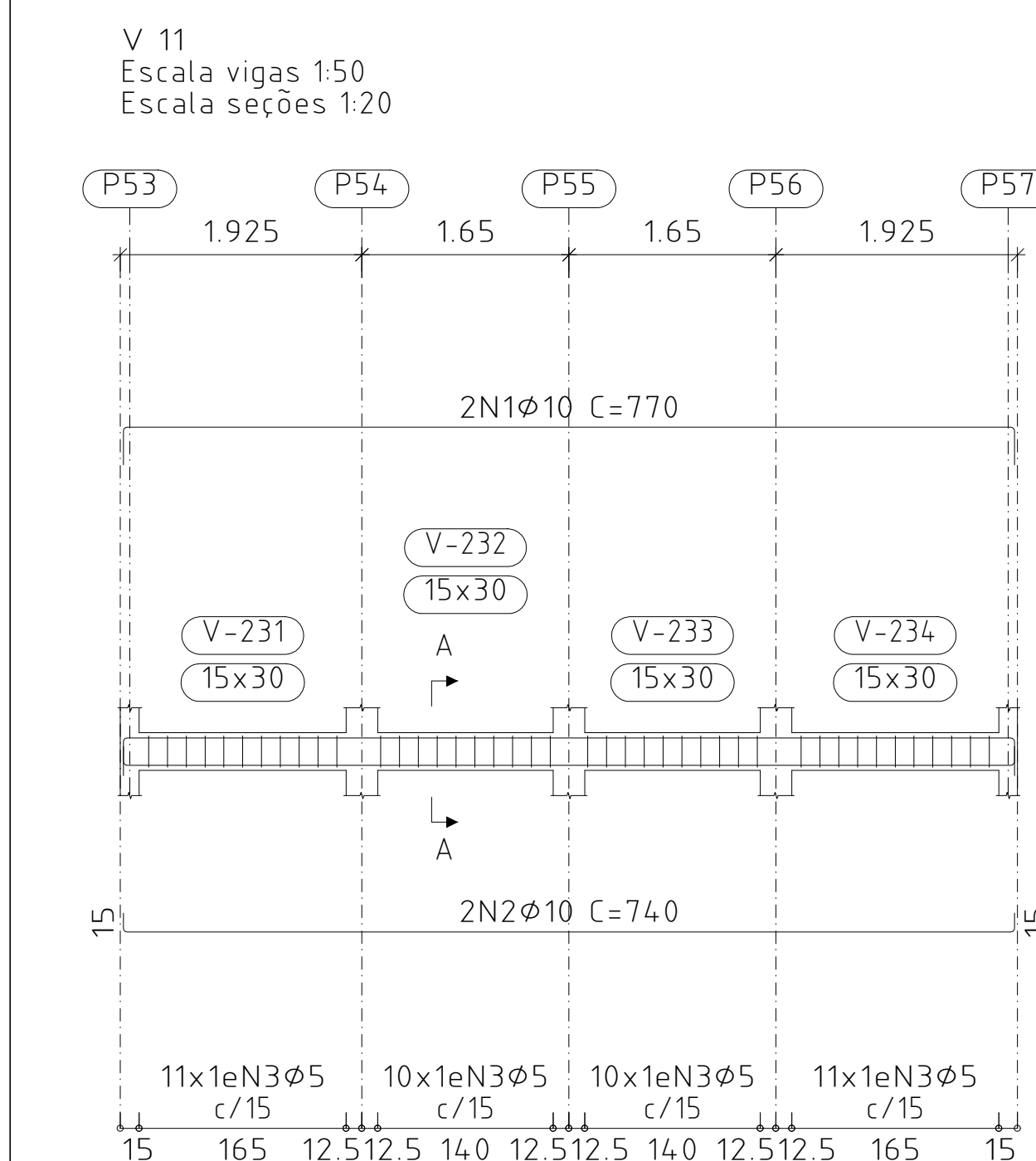
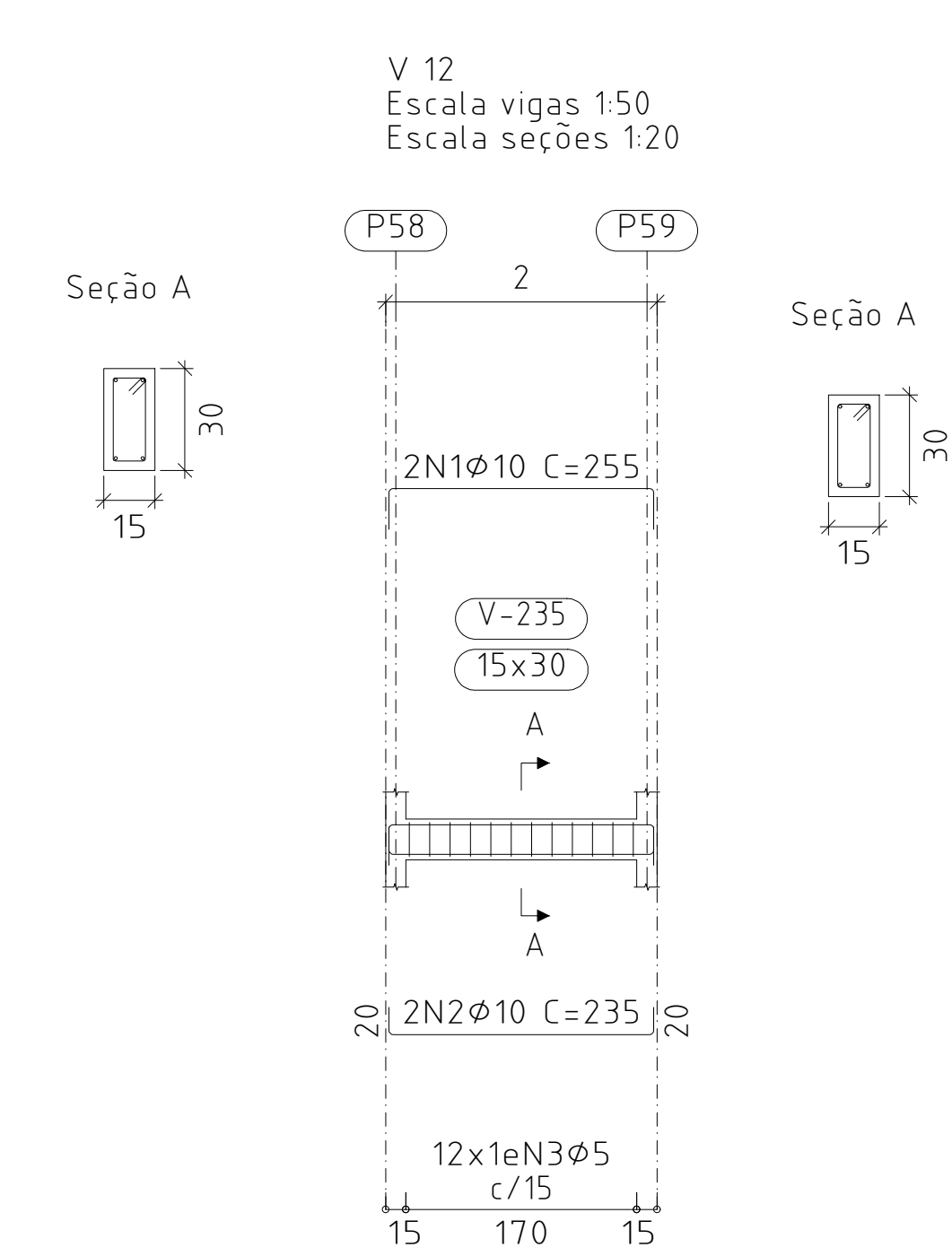
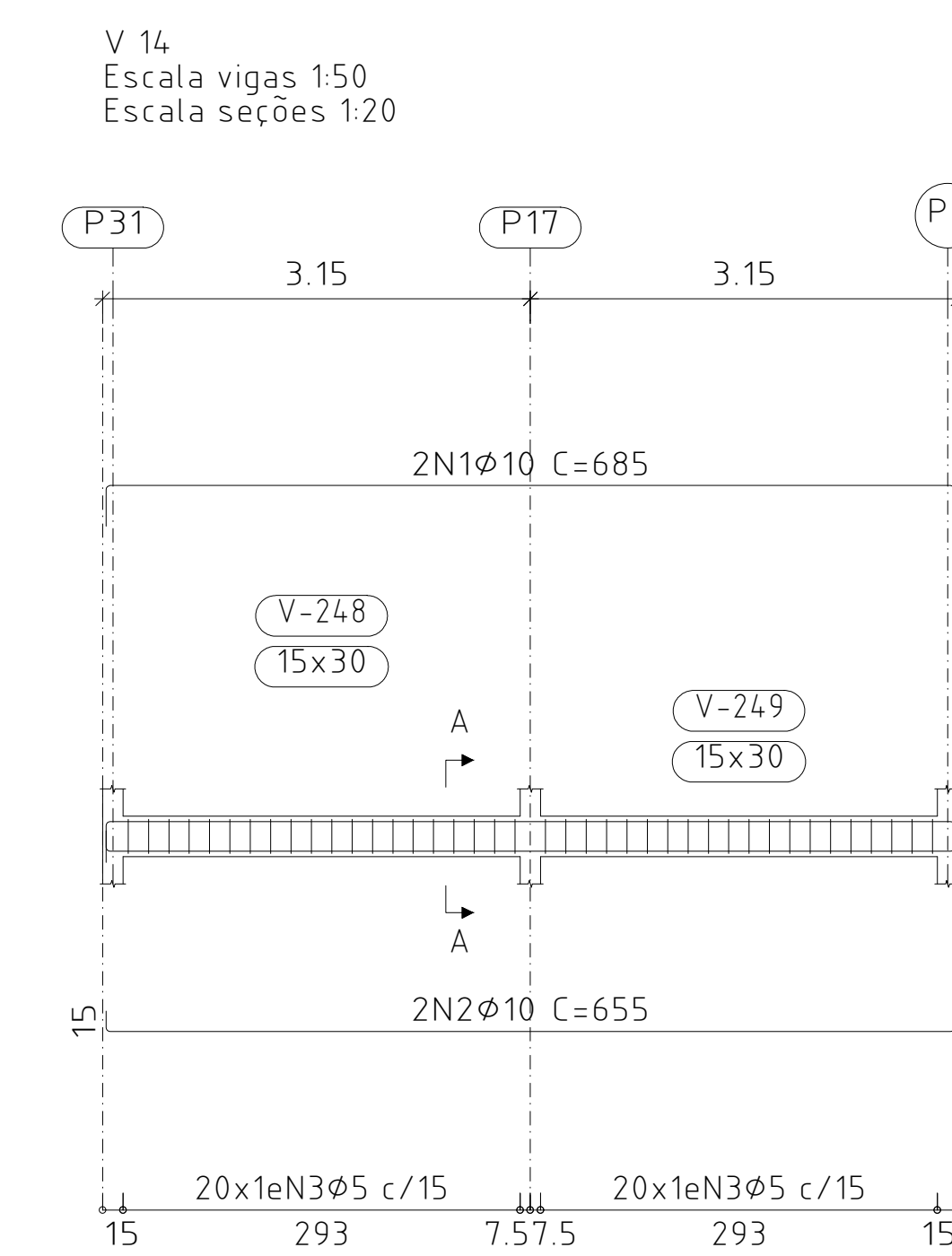
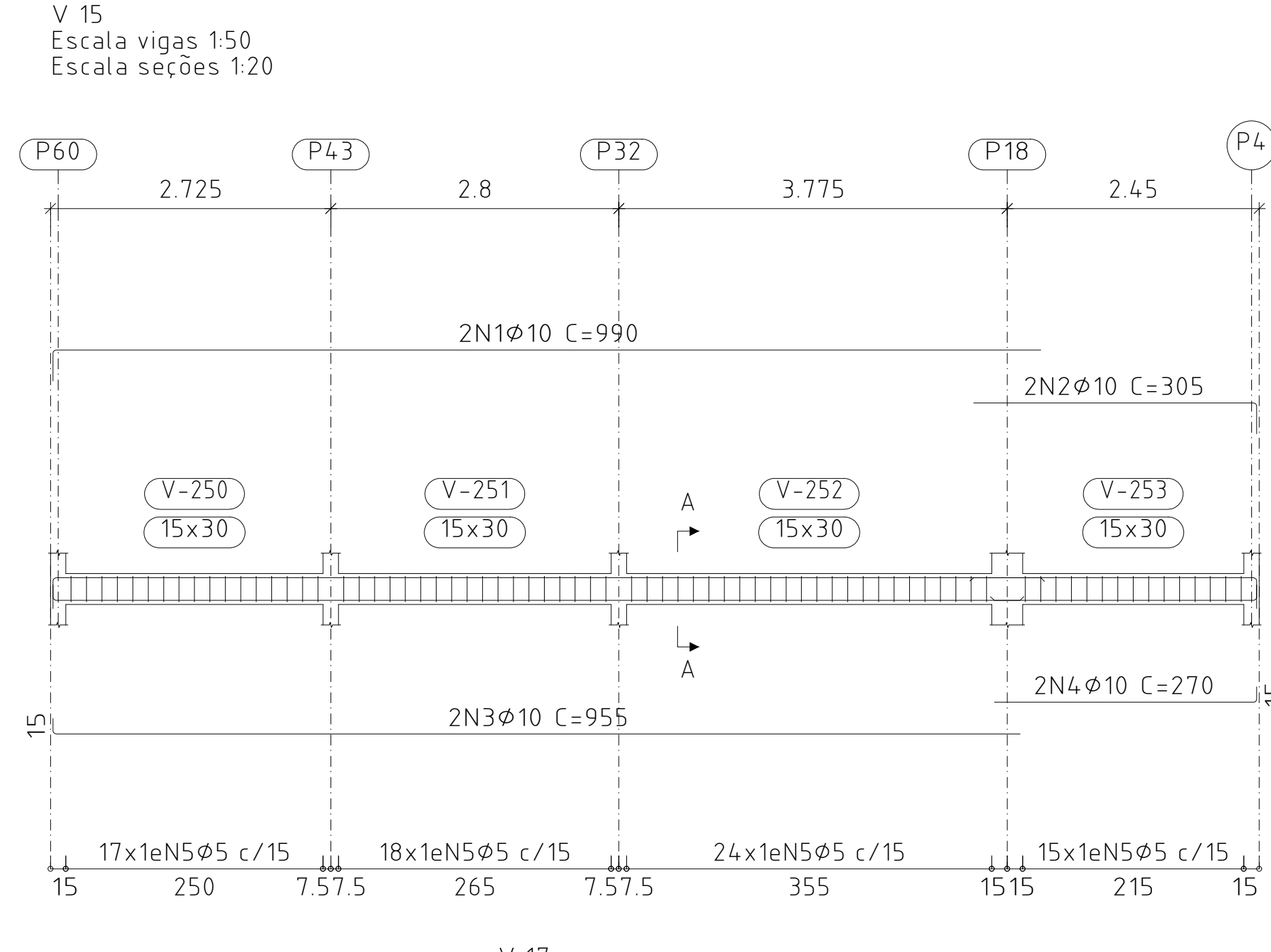
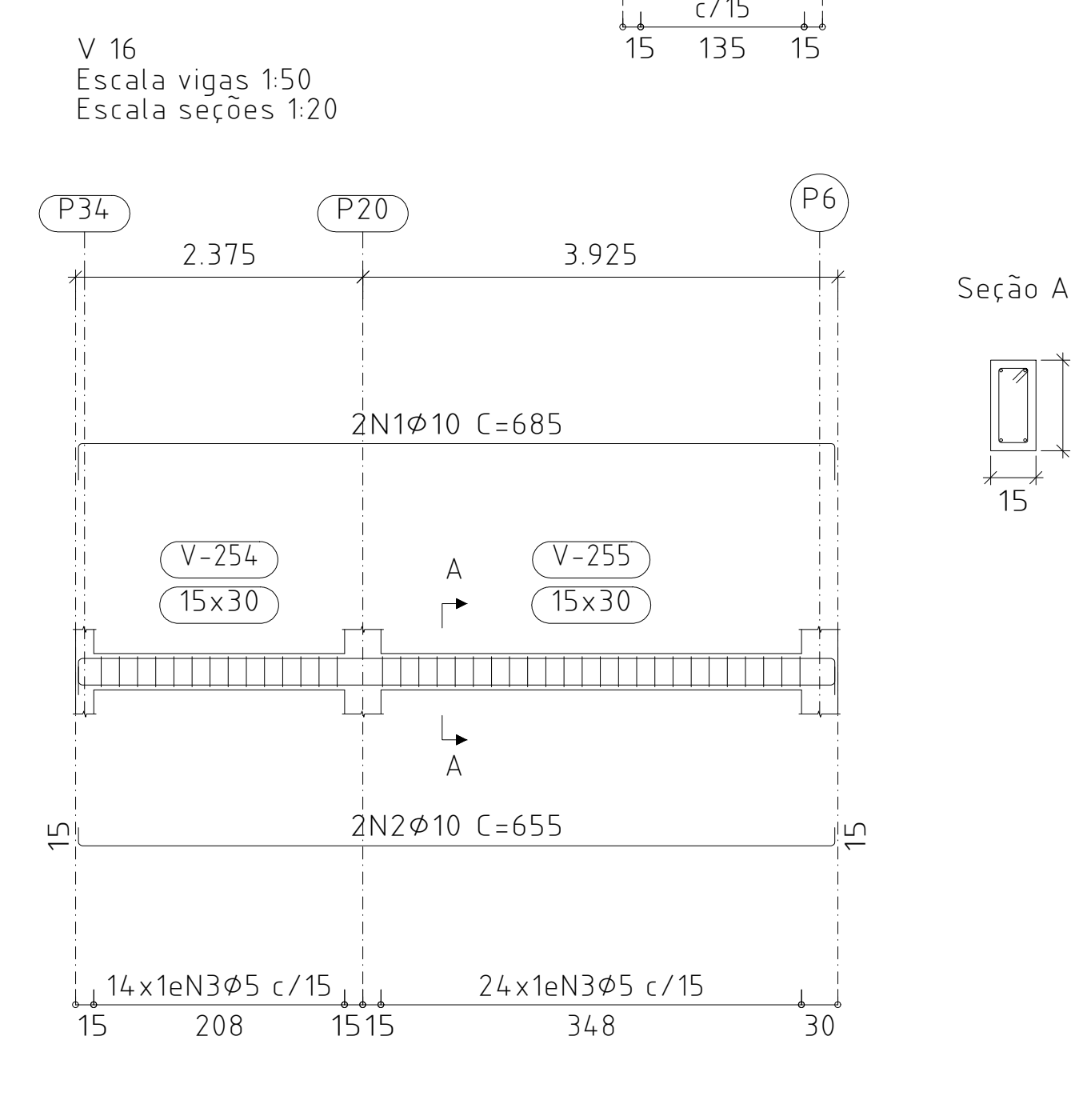
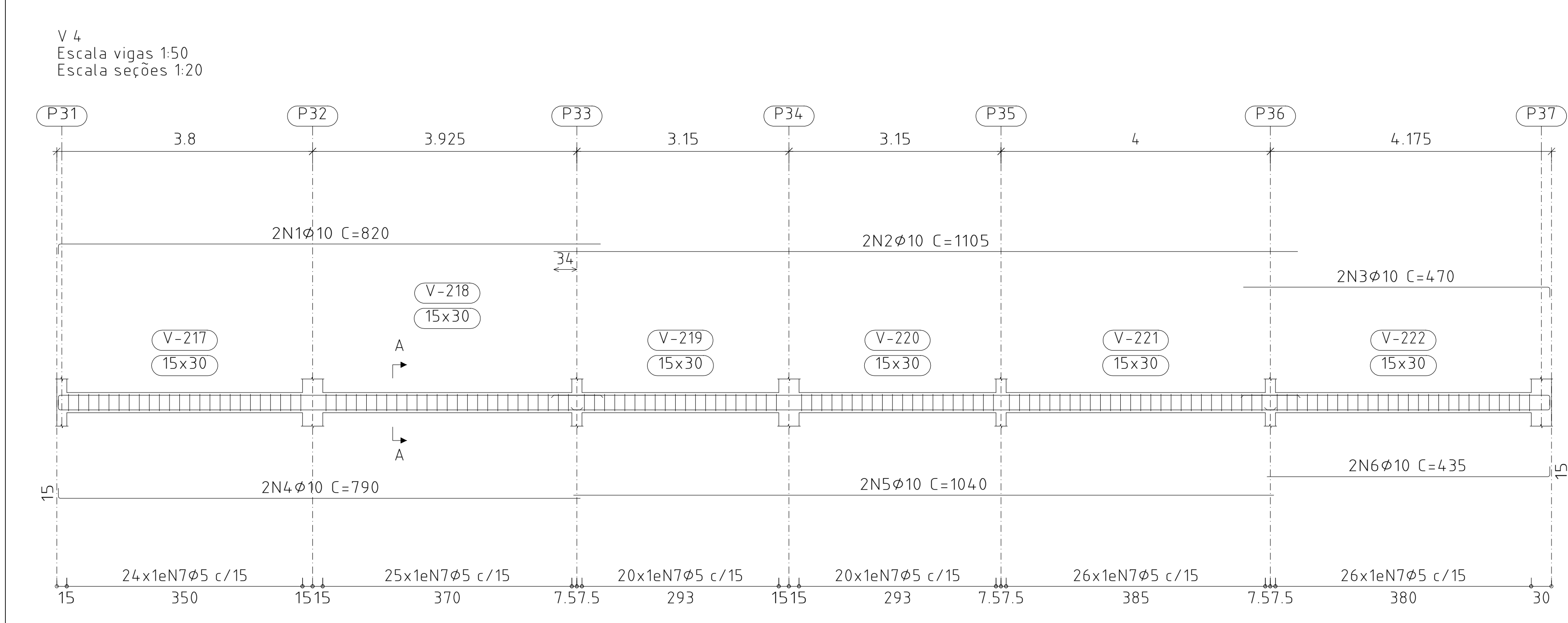
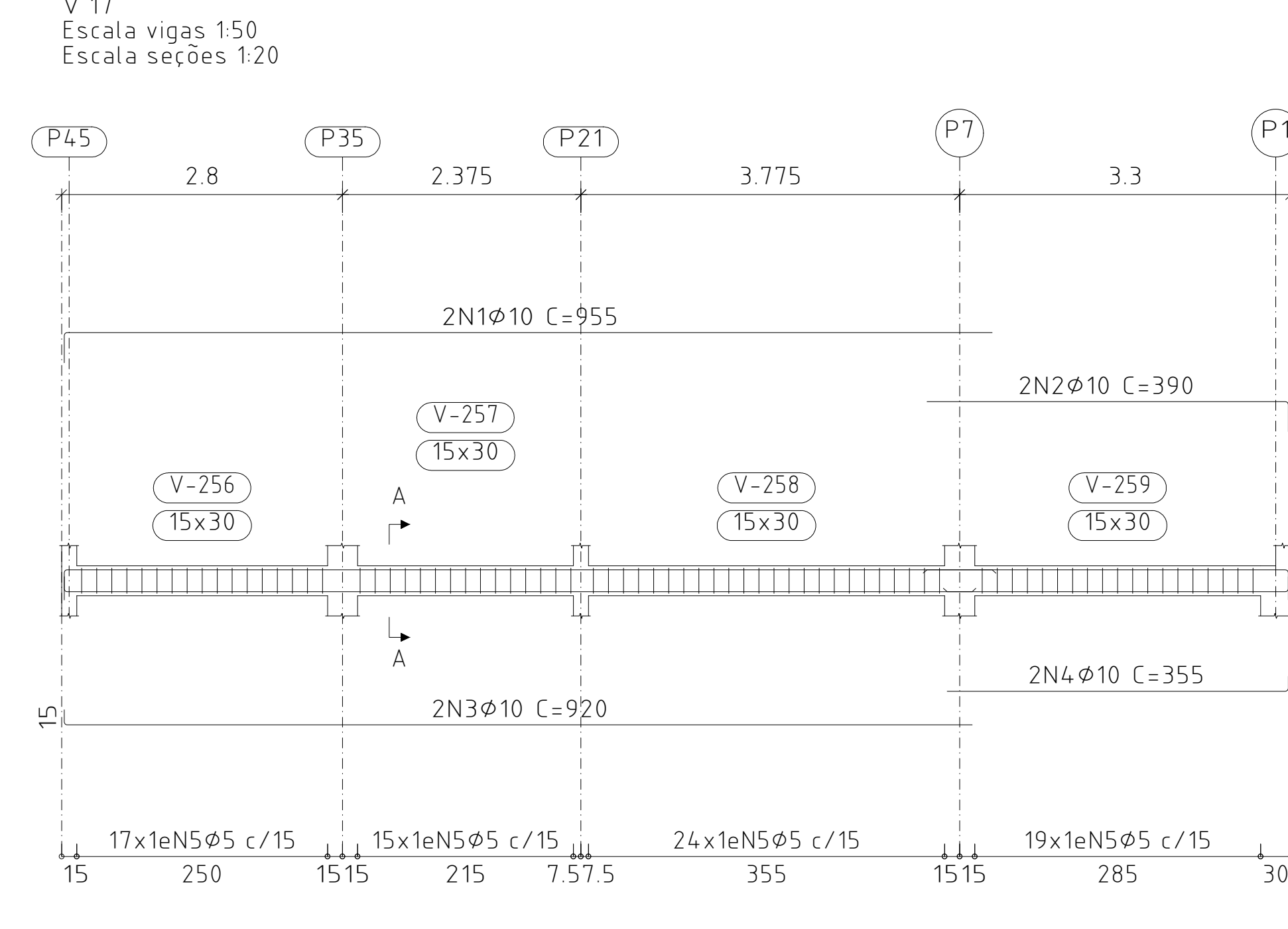
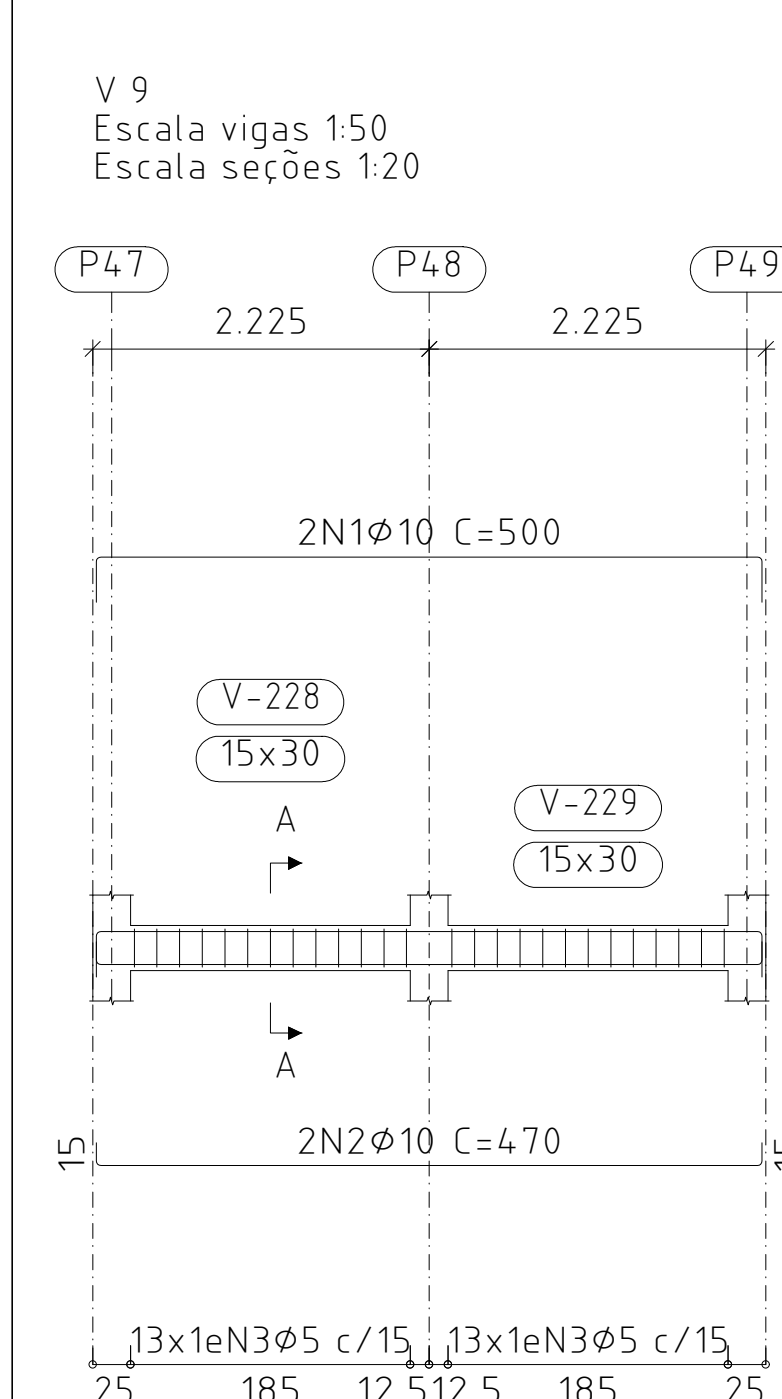
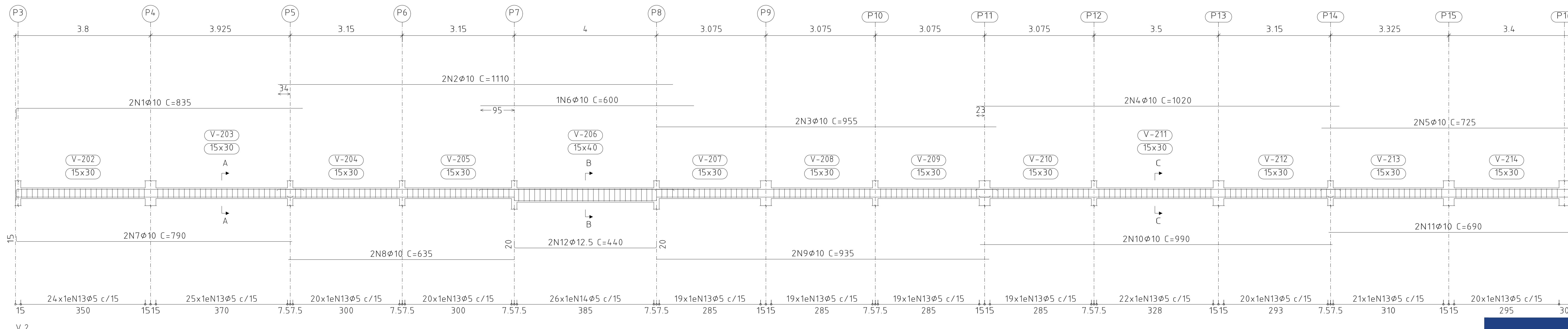
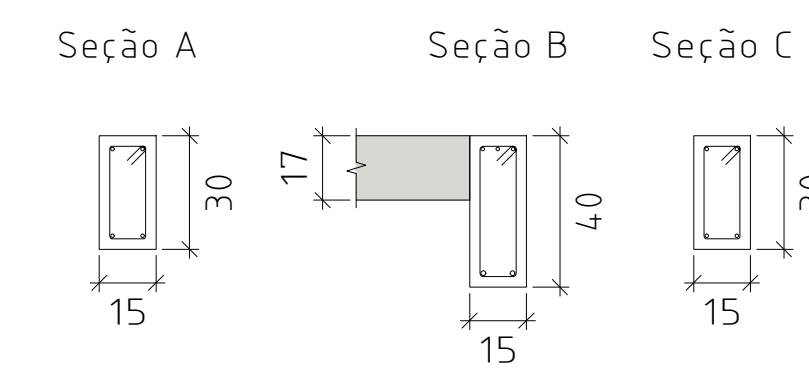
ENDEREÇO: RUA DR. PINTO DE OLIVEIRA, 564, VILA COLI, ELÓI MENDES - MG

RESP. TÉCNICO: BRUNO AMBROSIO COELHO
CREA: MG-325.624

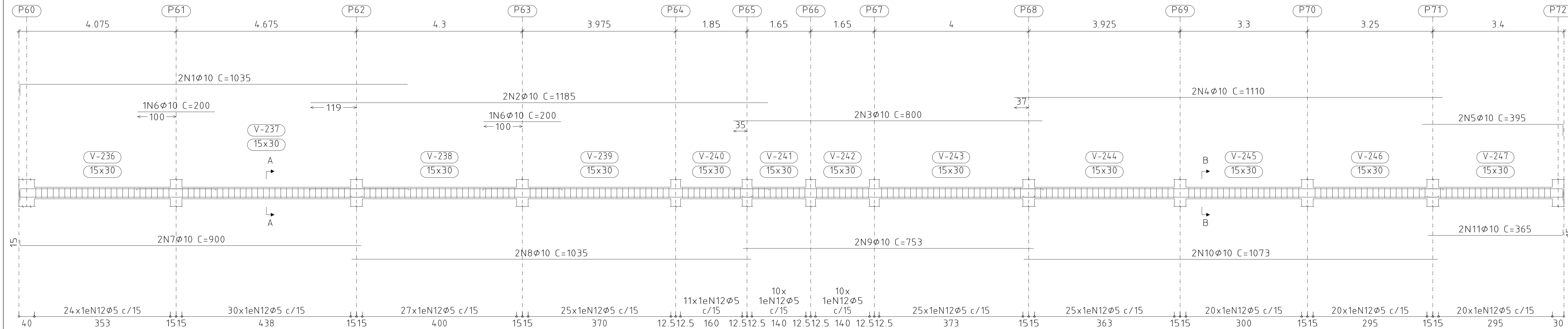
PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ELÓI MENDES
CNPJ: 20.347.225/0001-26

DATA: AGOSTO/2026

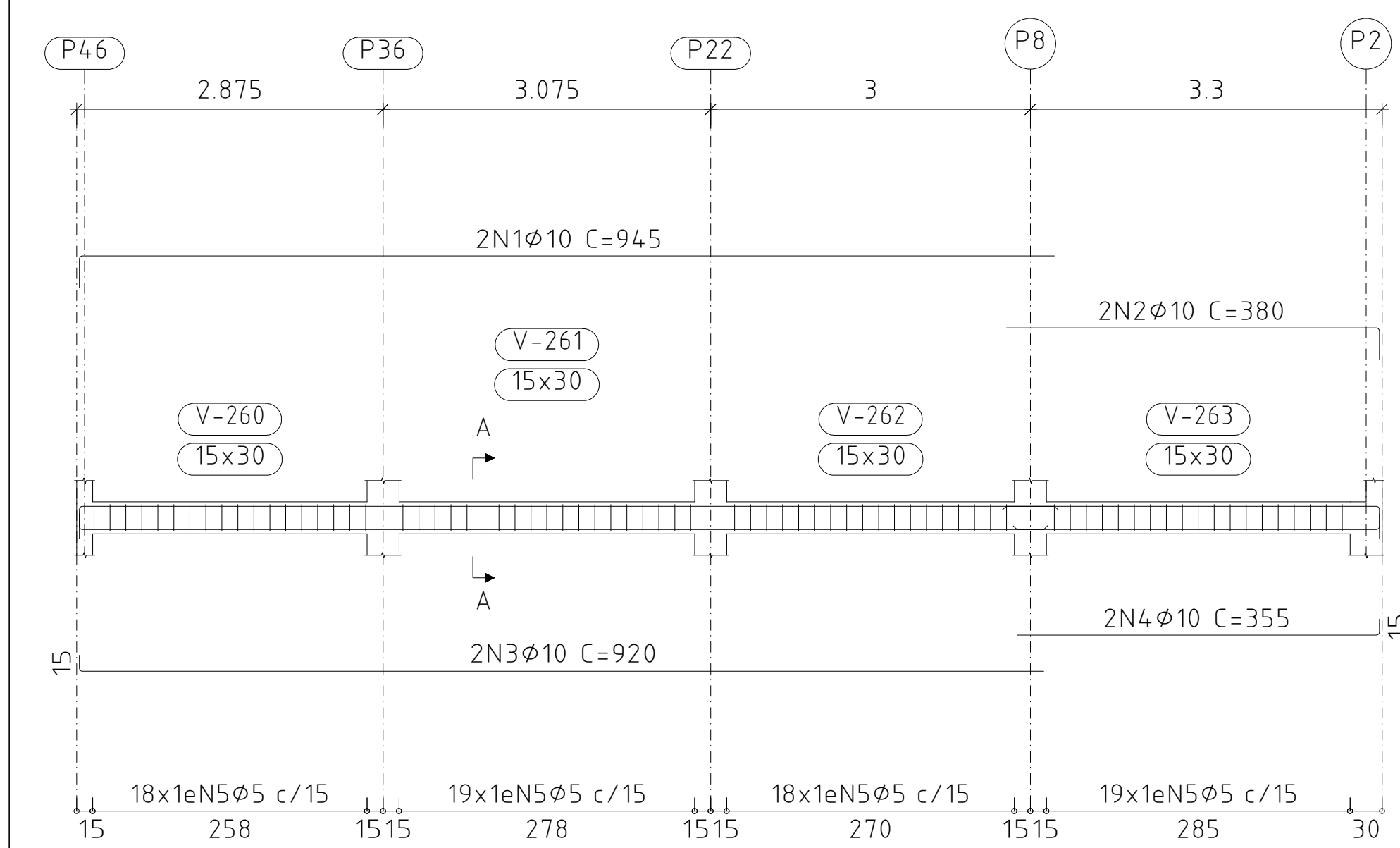
PRANCHA: 13/18



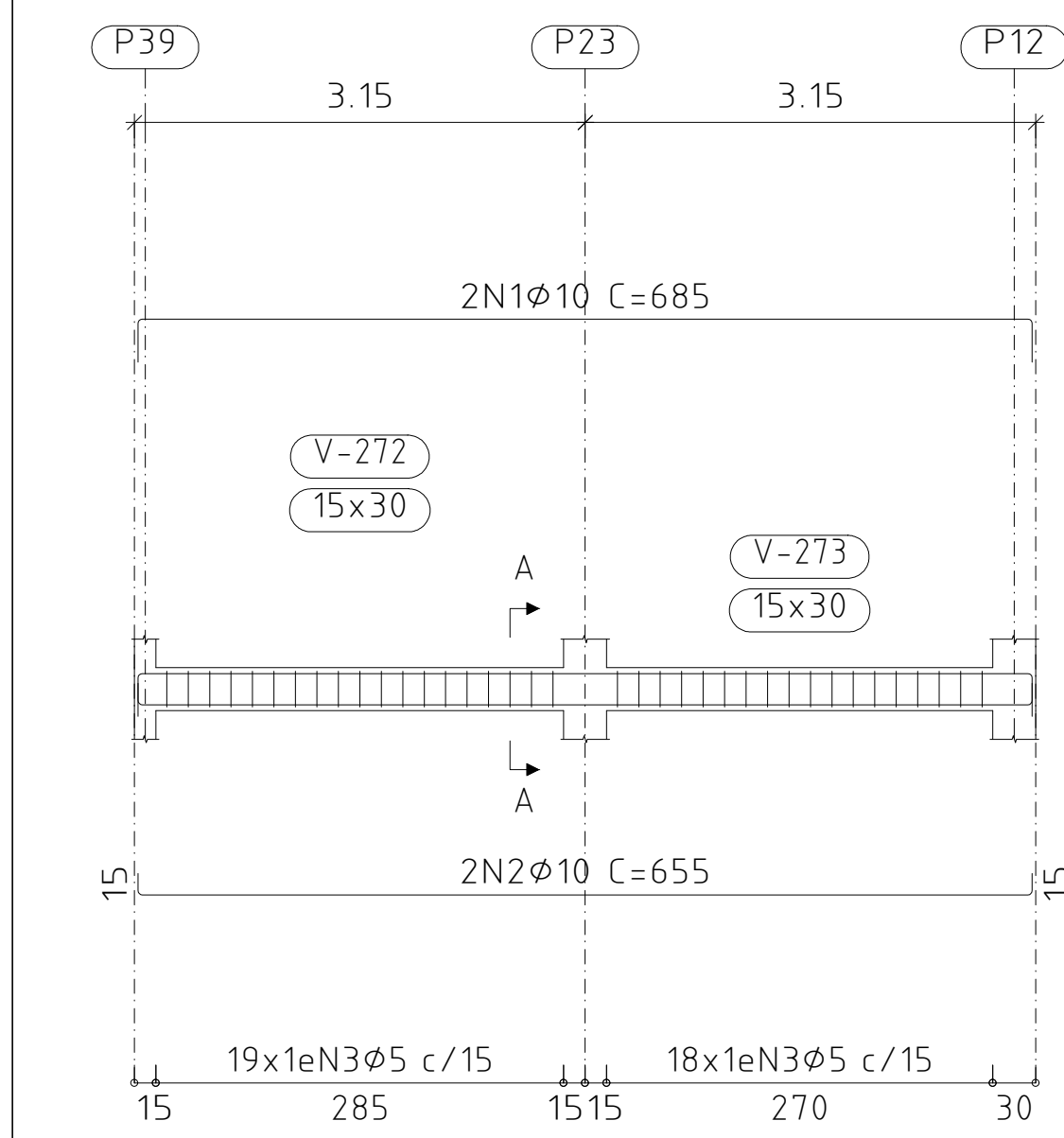
V 13
Escala vigas 1:50
Escala seções 1:20



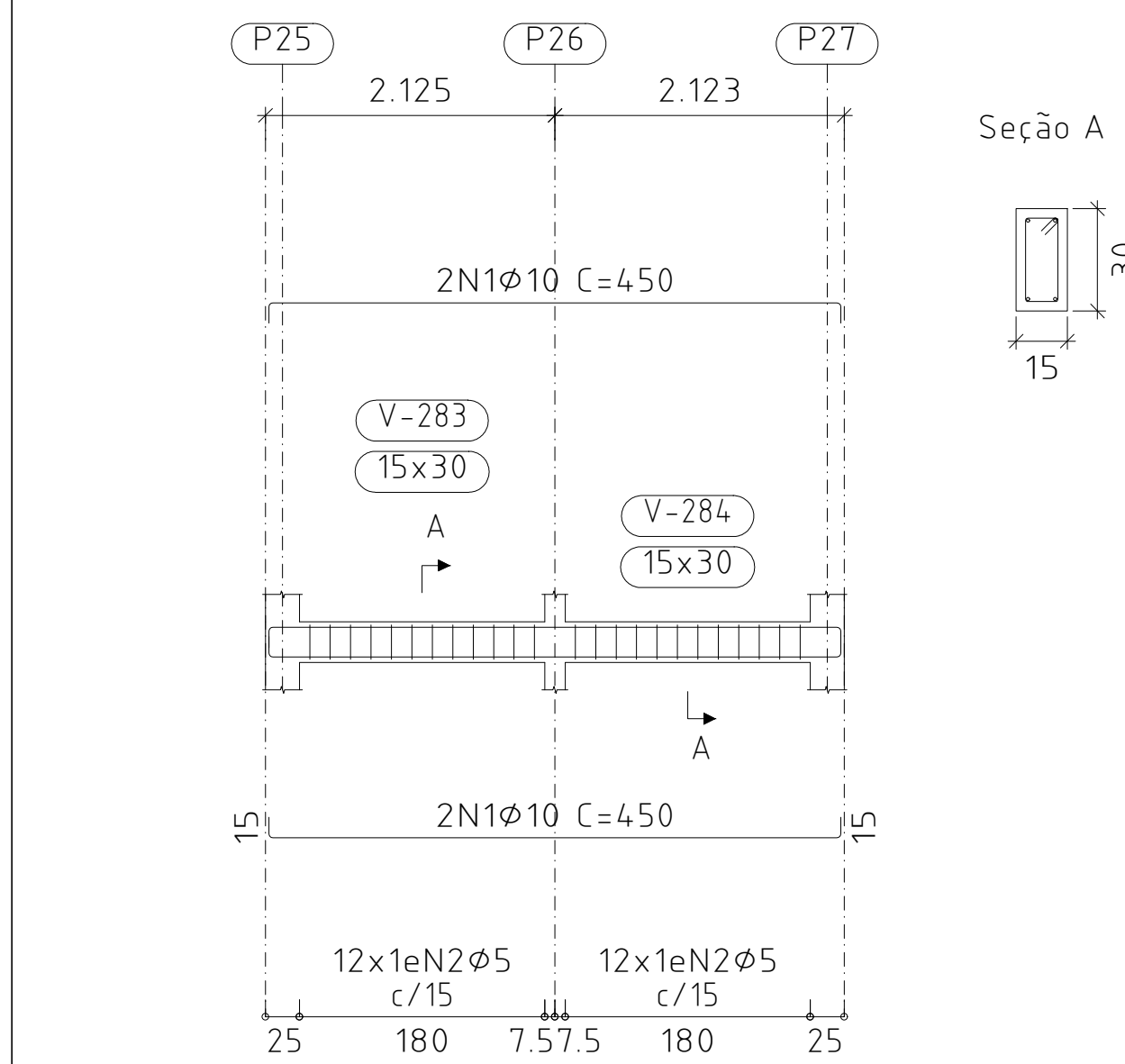
V 18
Escala vigas 1:50
Escala seções 1:20



V 27
Escala vigas 1:50
Escala seções 1:20

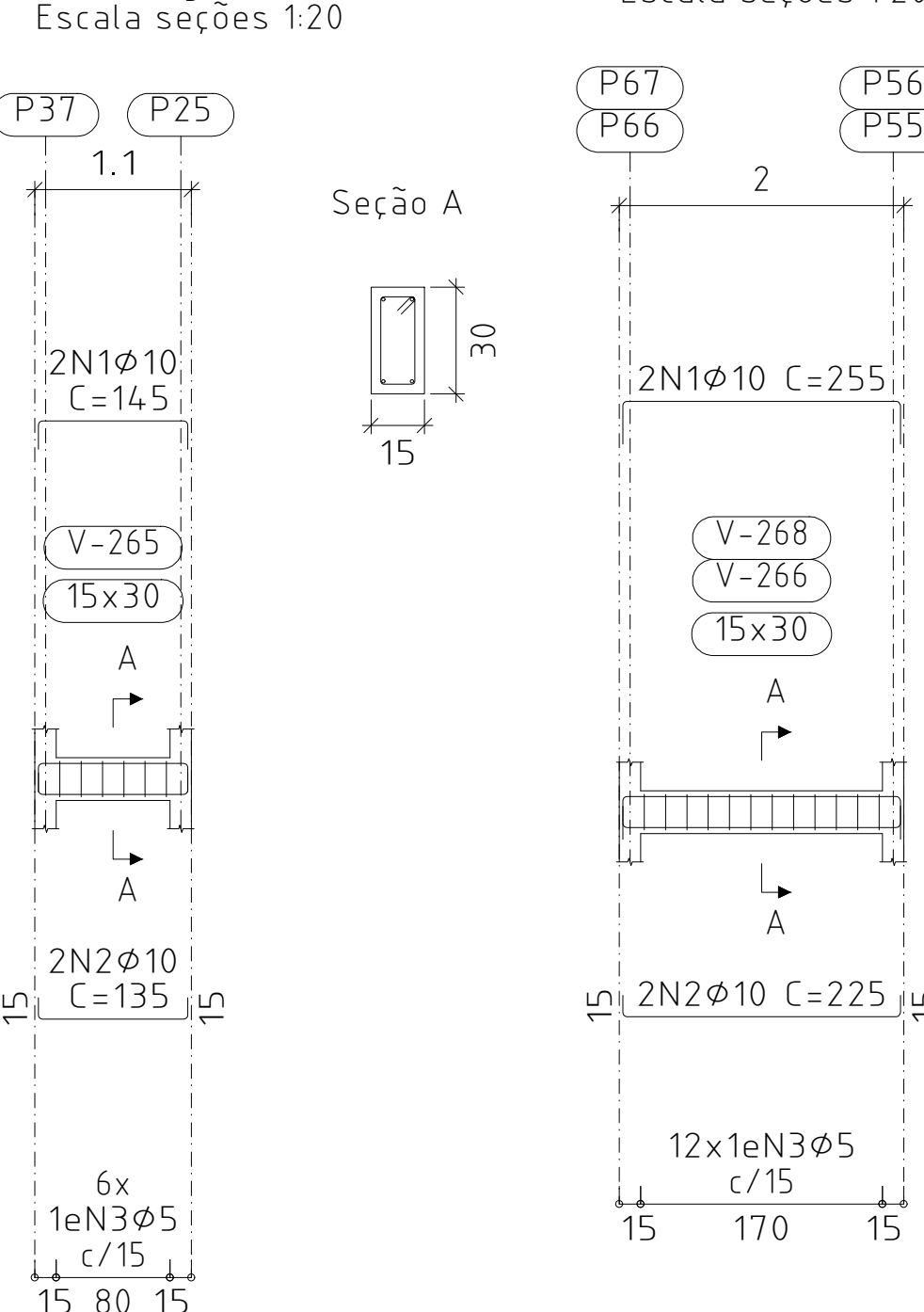


V 33
Escala vigas 1:50
Escala seções 1:20

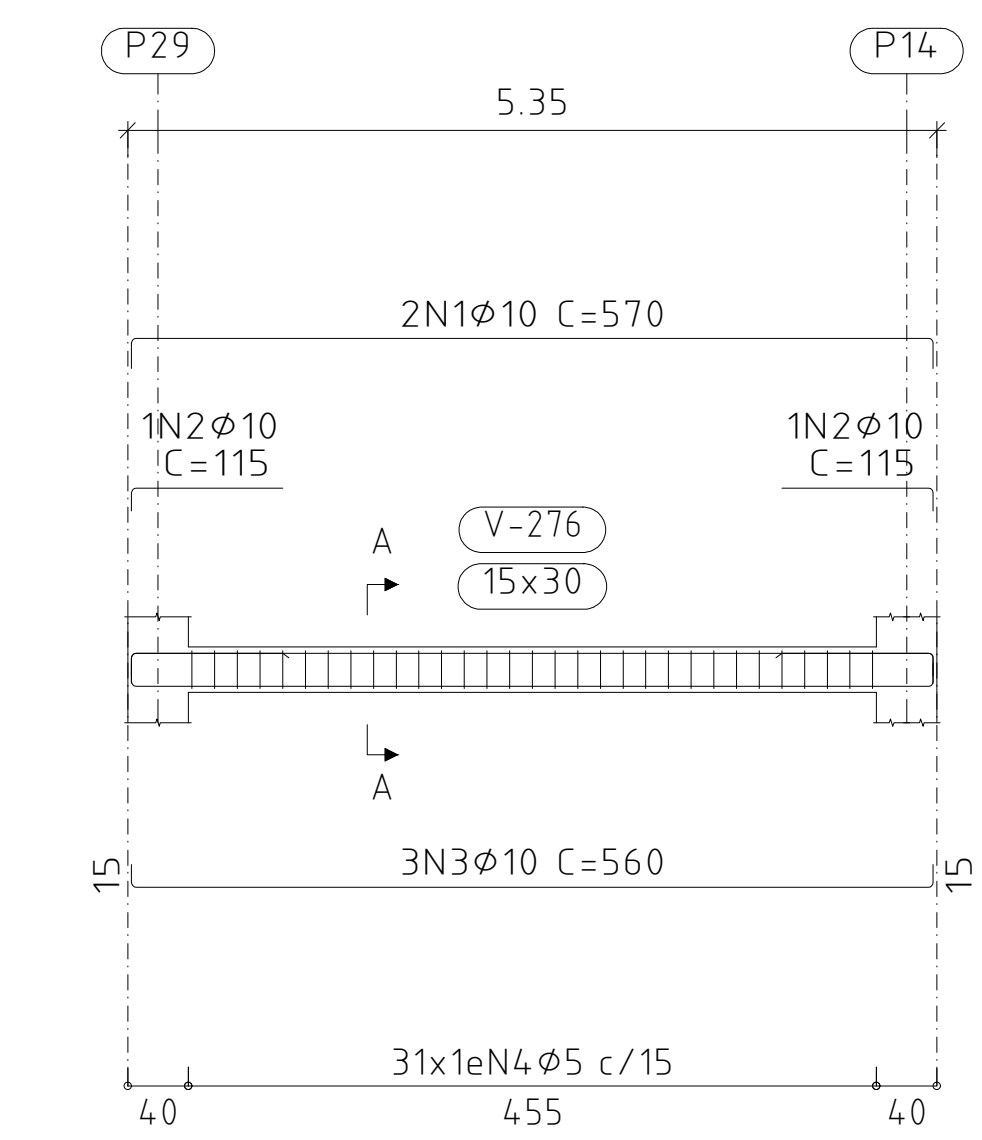


DETALHAMENTO DAS VIGAS BALDRAME (2/2)

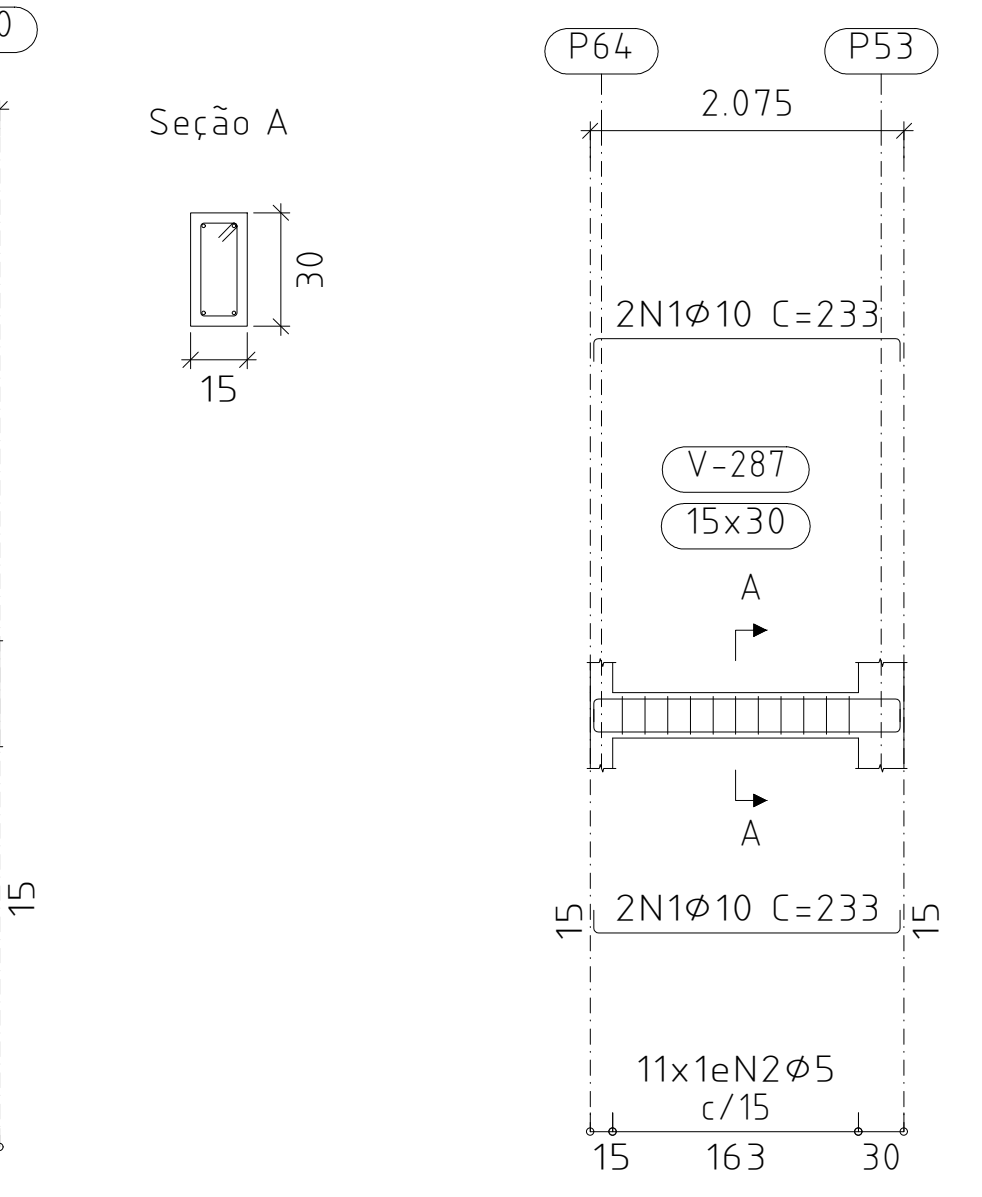
V 20
Escala vigas 1:50
Escala seções 1:20



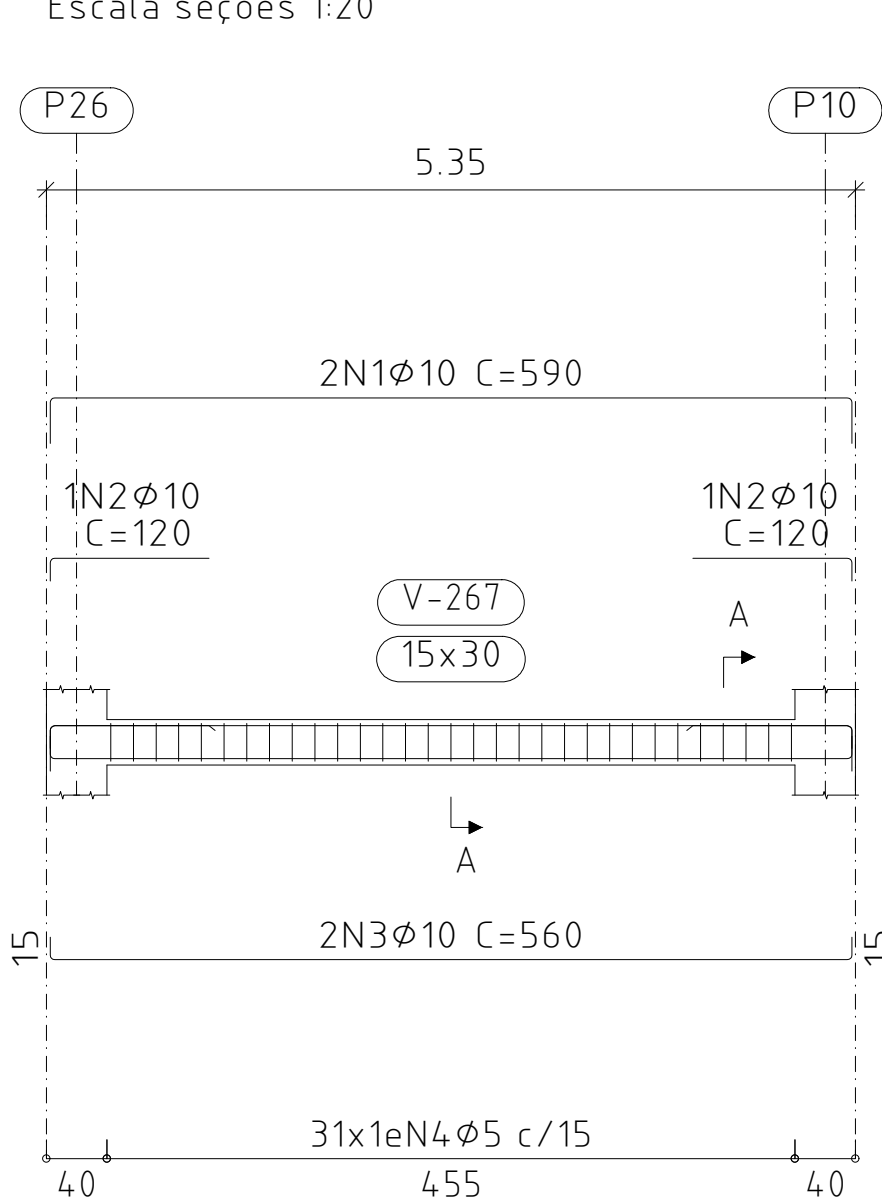
V 30
Escala vigas 1:50
Escala seções 1:20



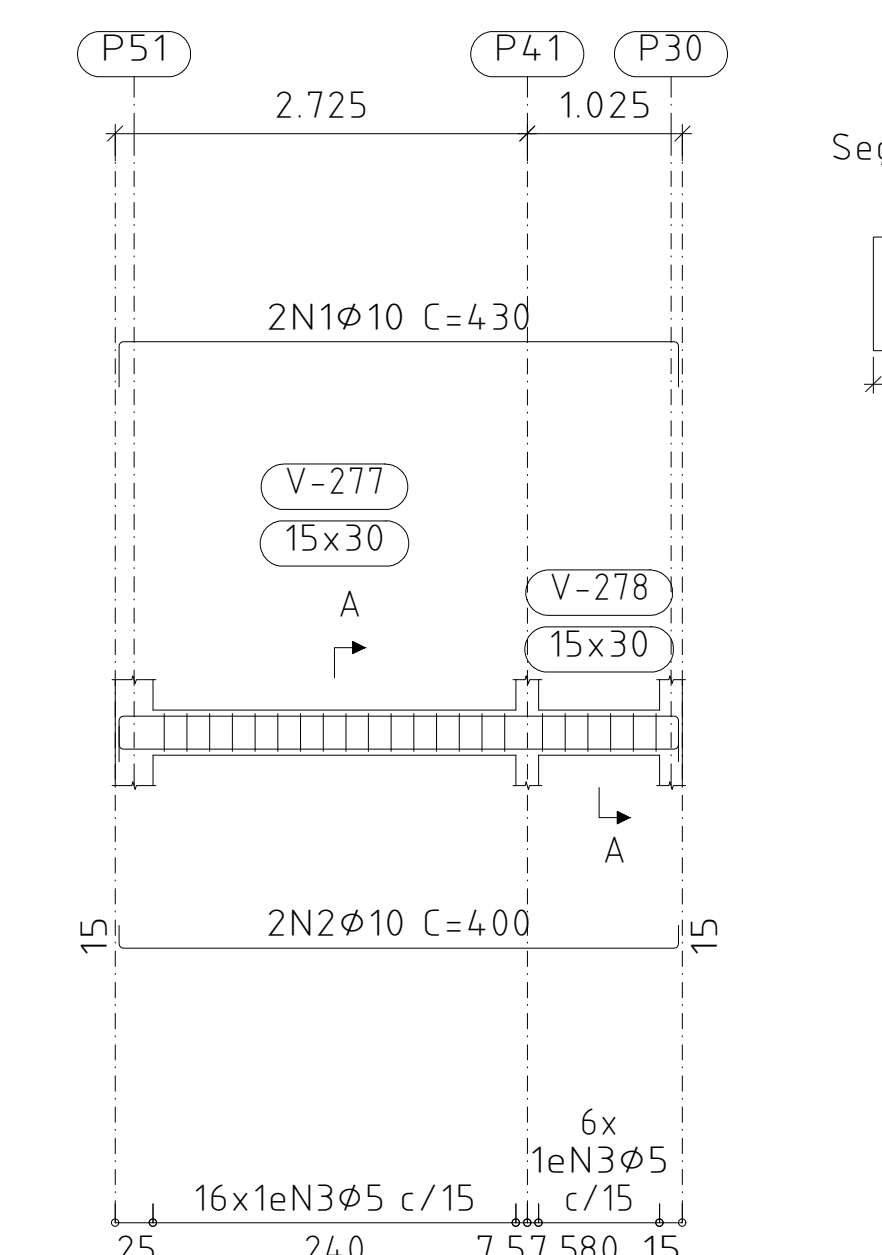
V 35
Escala vigas 1:50
Escala seções 1:20



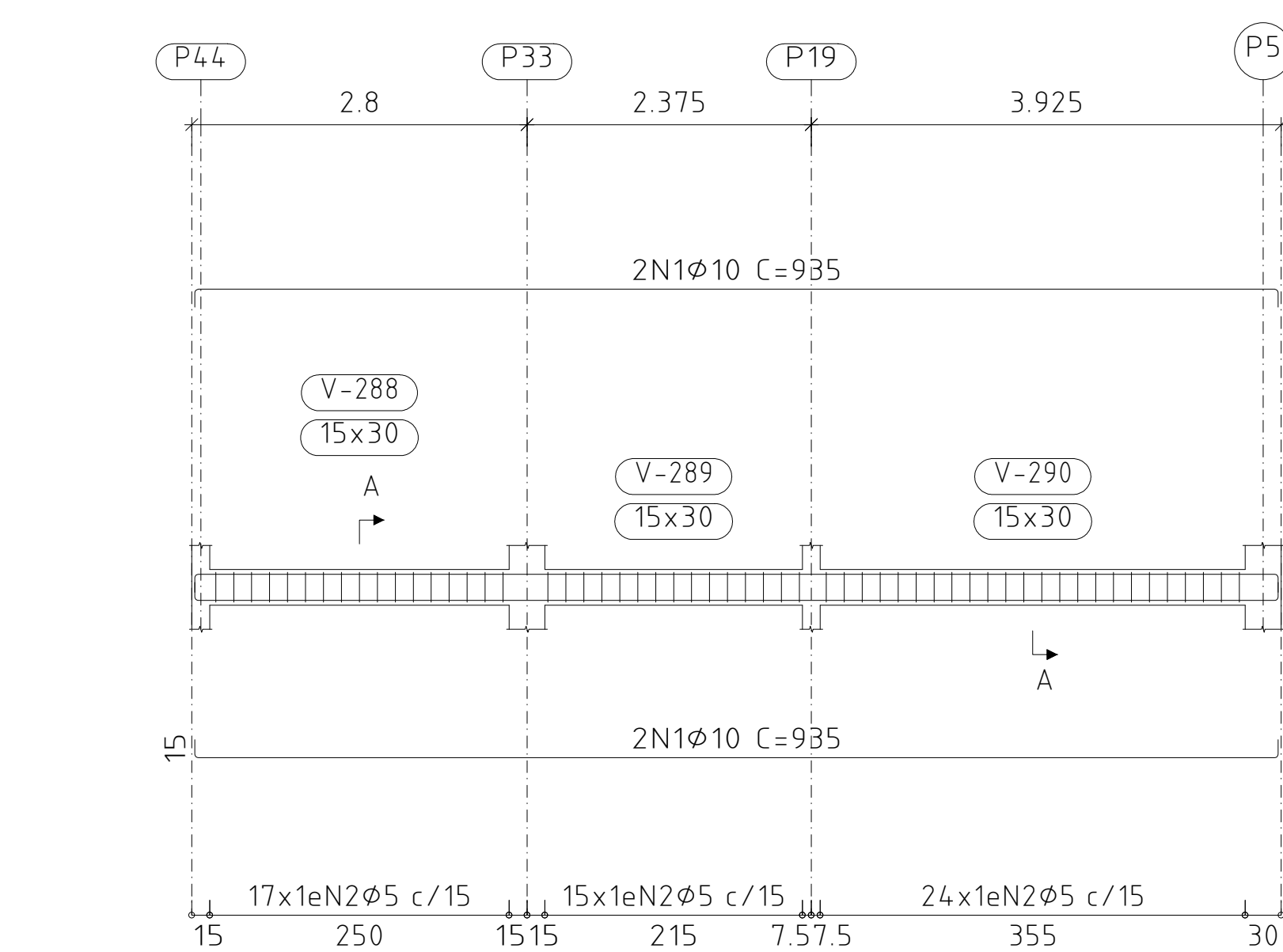
V 22
Escala vigas 1:50
Escala seções 1:20



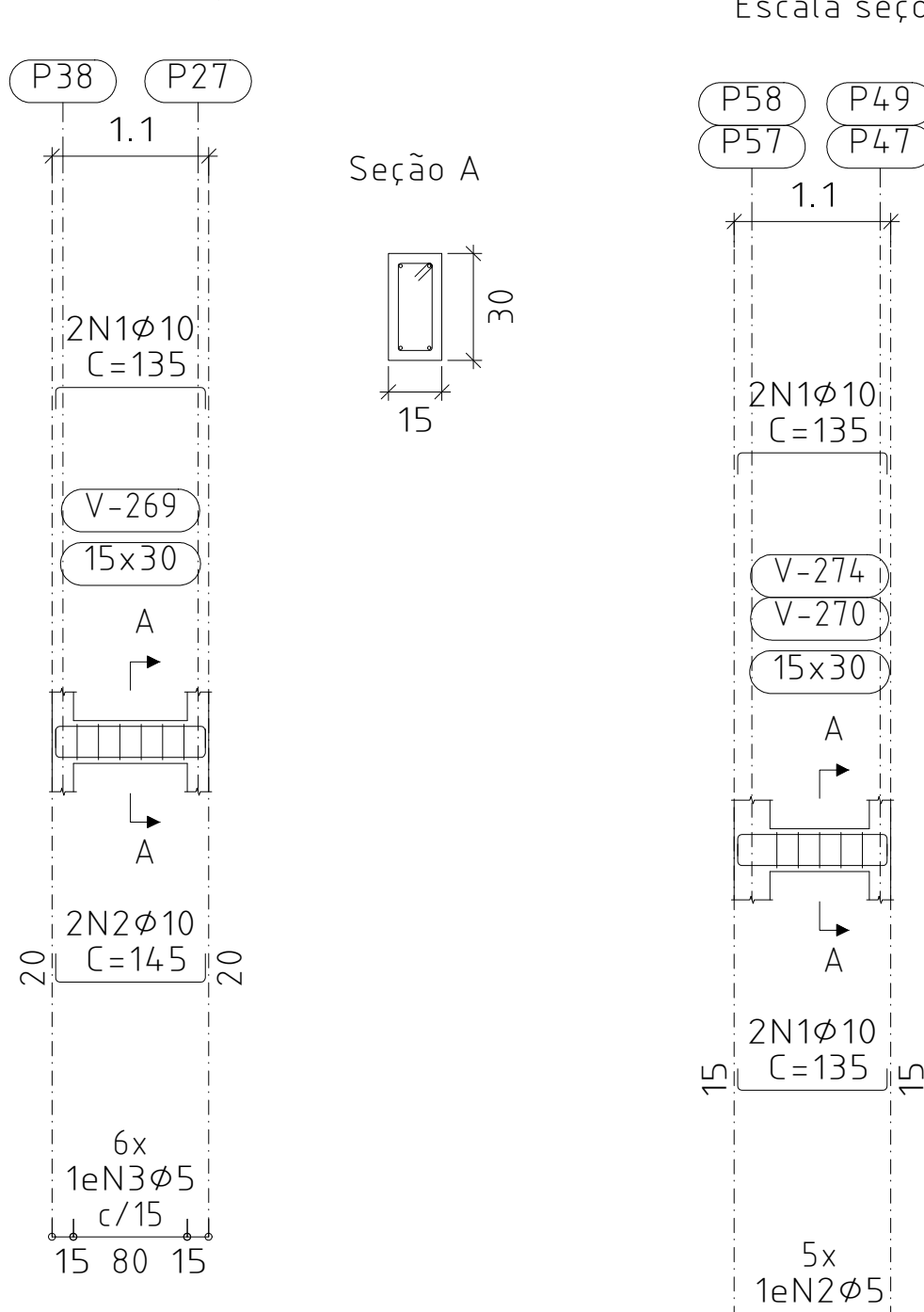
V 31
Escala vigas 1:50
Escala seções 1:20



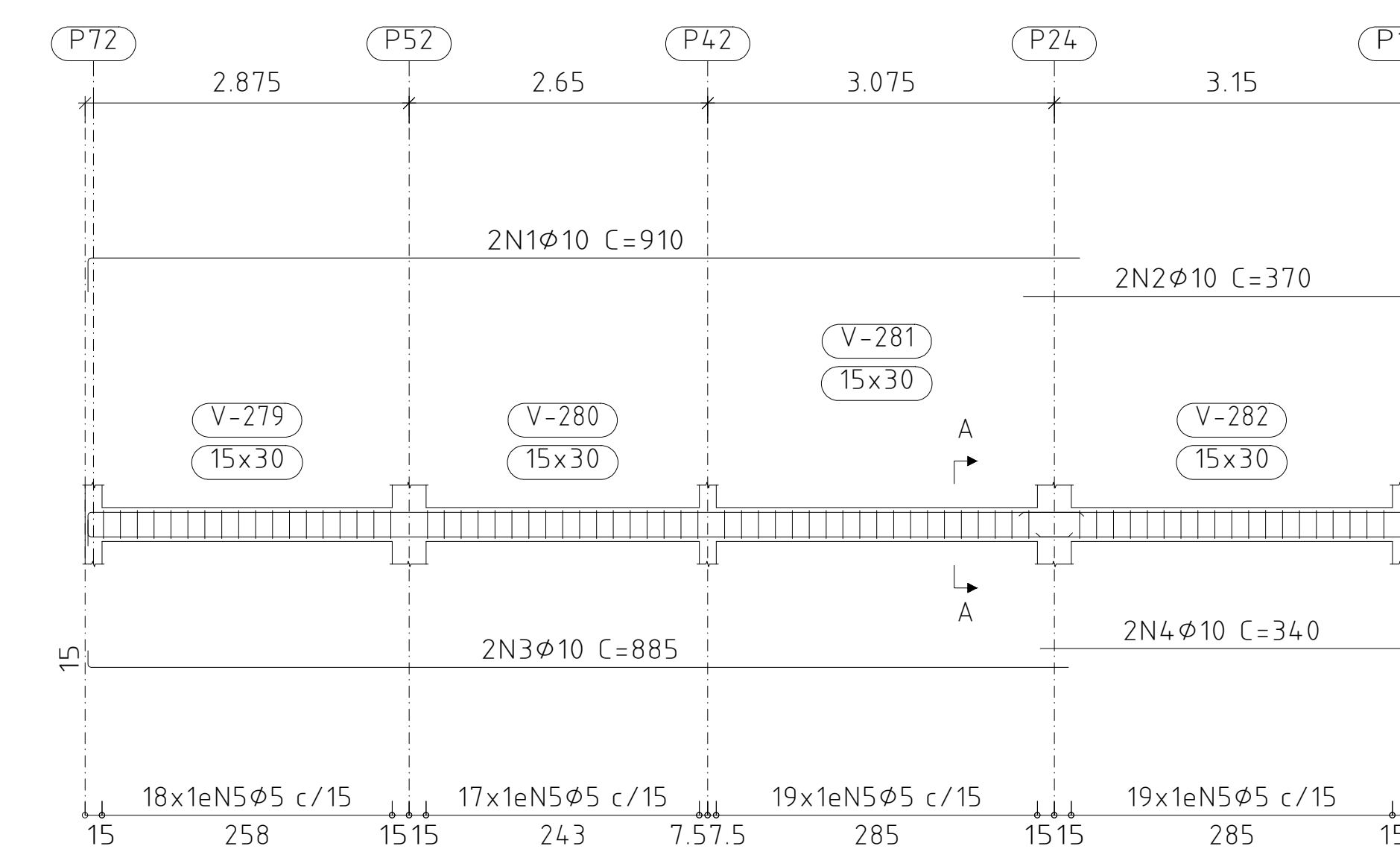
V 36
Escala vigas 1:50
Escala seções 1:20



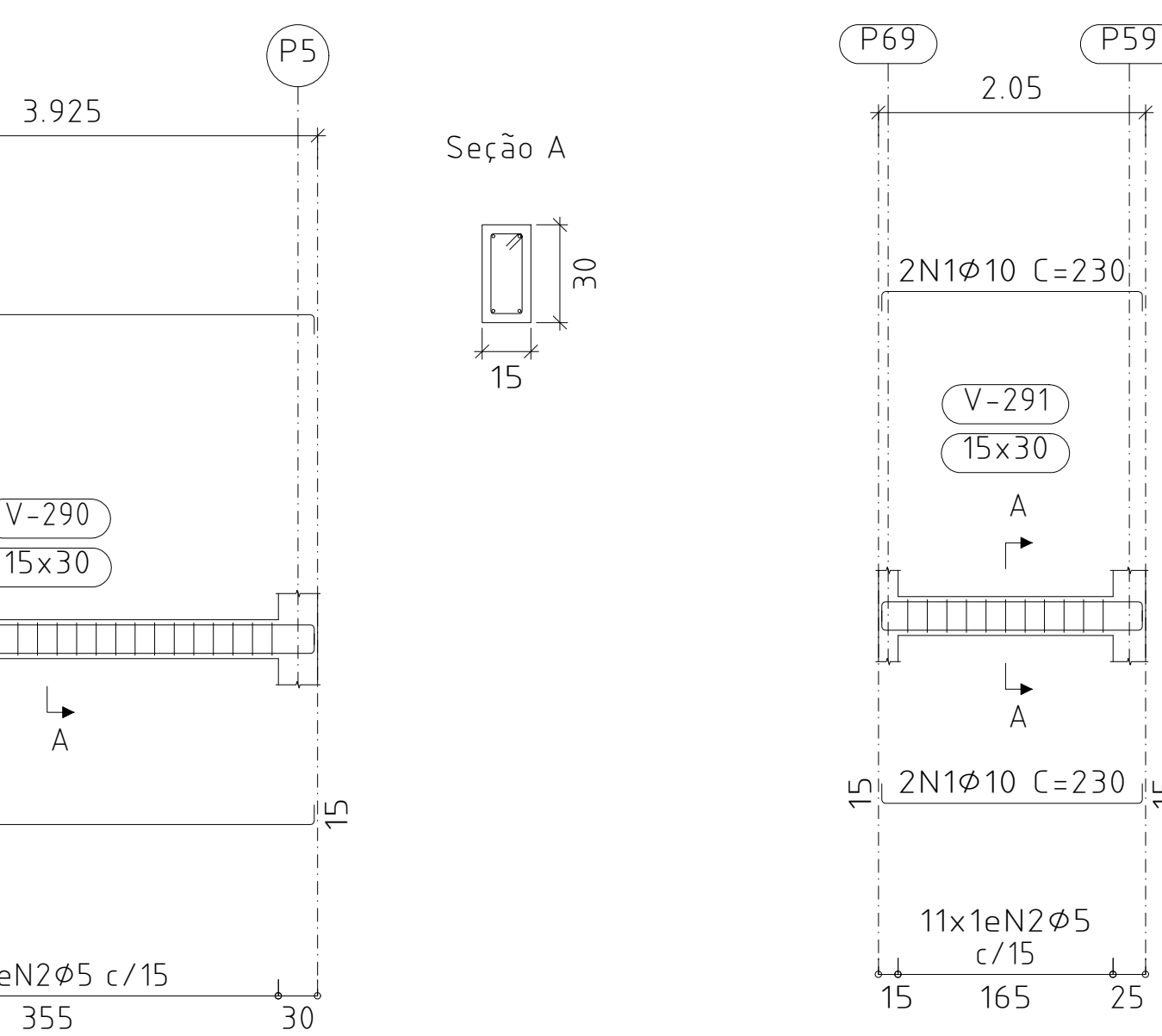
V 24
Escala vigas 1:50
Escala seções 1:20



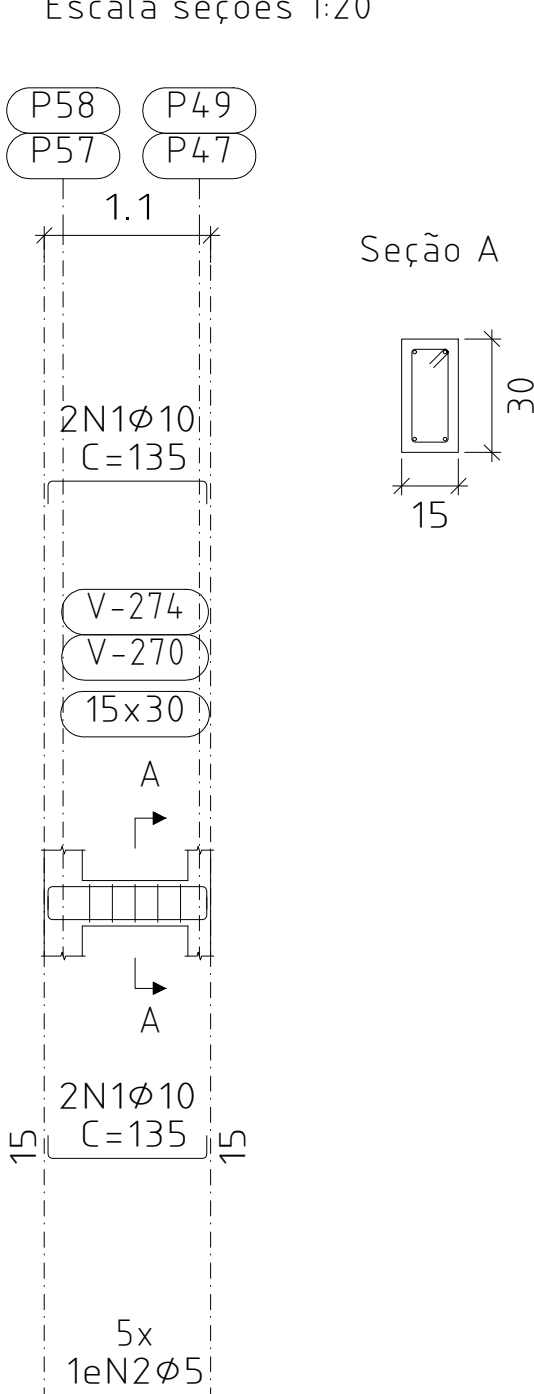
V 32
Escala vigas 1:50
Escala seções 1:20



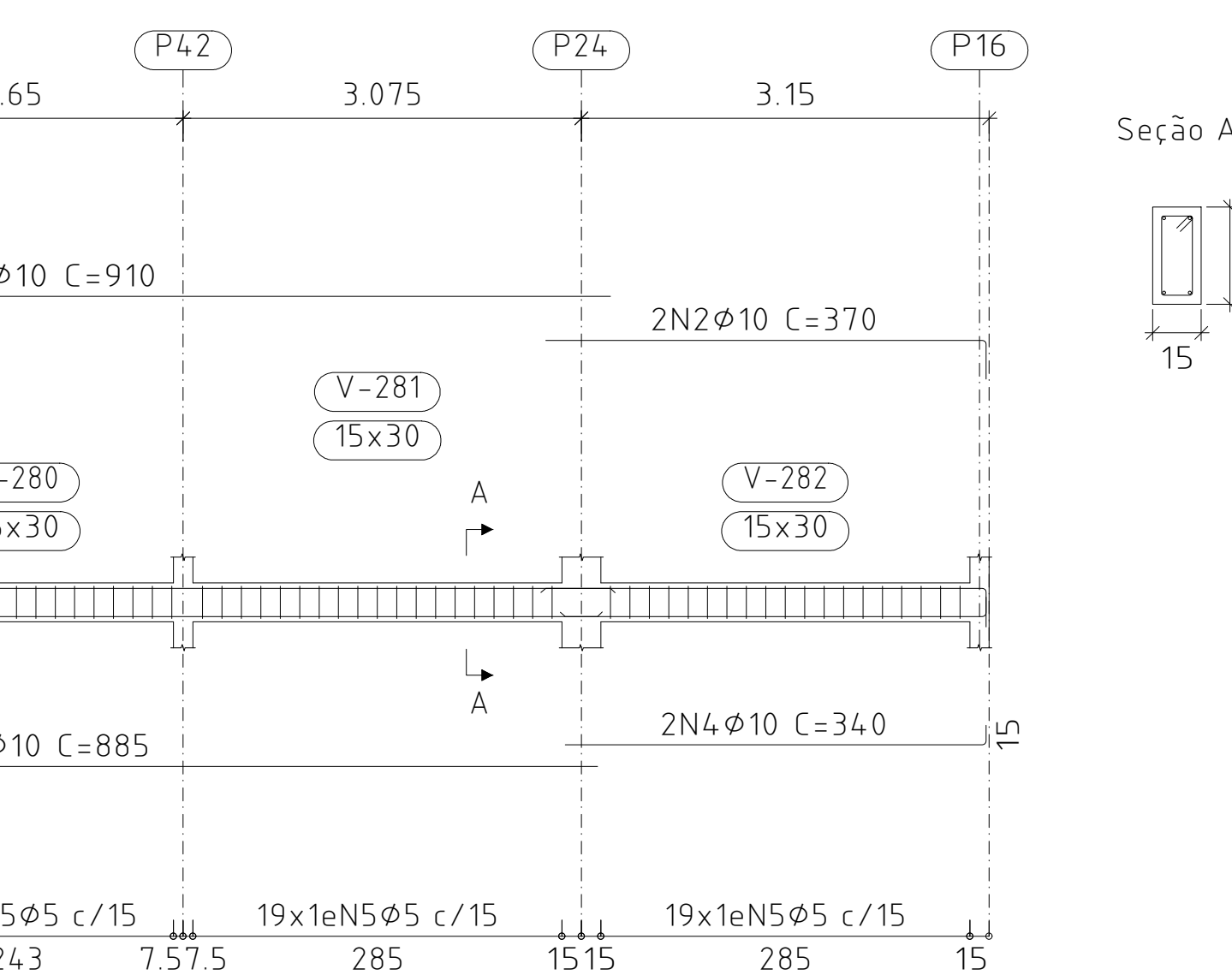
V 37
Escala vigas 1:50
Escala seções 1:20



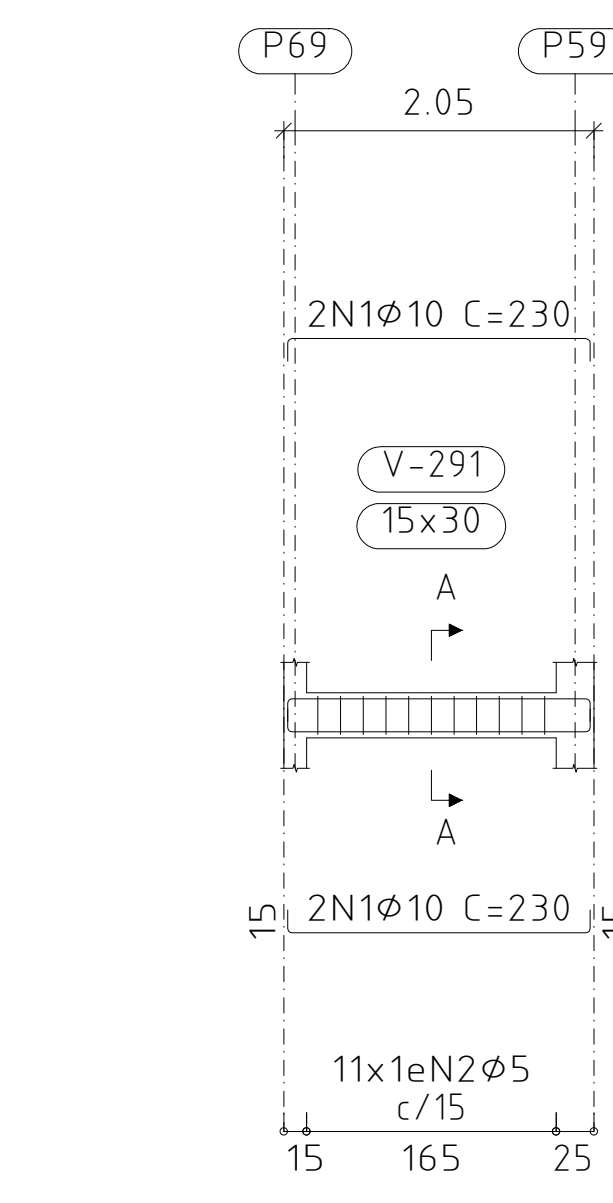
V 25
Escala vigas 1:50
Escala seções 1:20



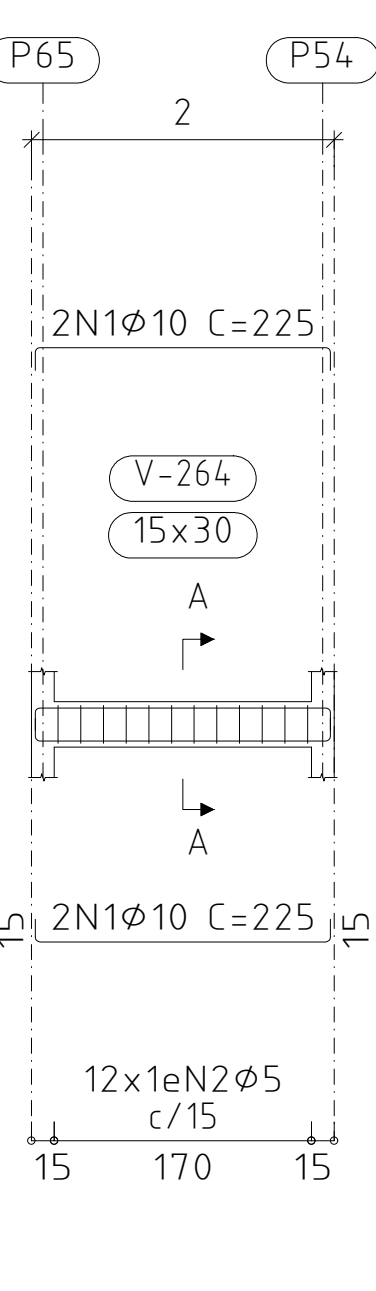
V 38
Escala vigas 1:50
Escala seções 1:20



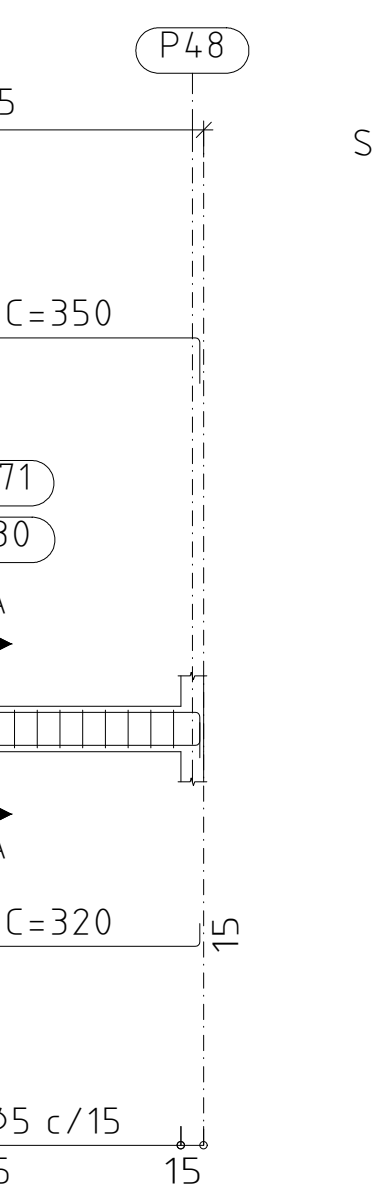
V 37
Escala vigas 1:50
Escala seções 1:20



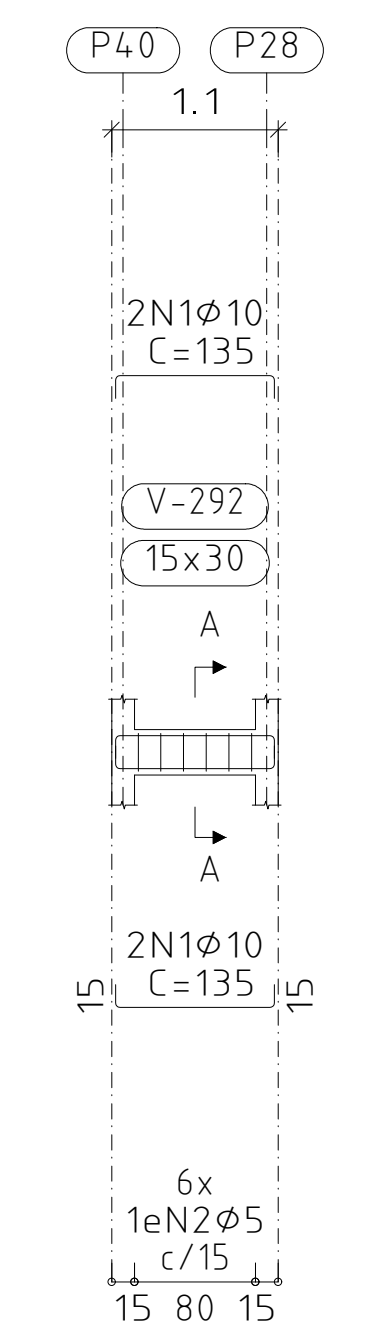
V 19
Escala vigas 1:50
Escala seções 1:20



V 26
Escala vigas 1:50
Escala seções 1:20



V 38
Escala vigas 1:50
Escala seções 1:20

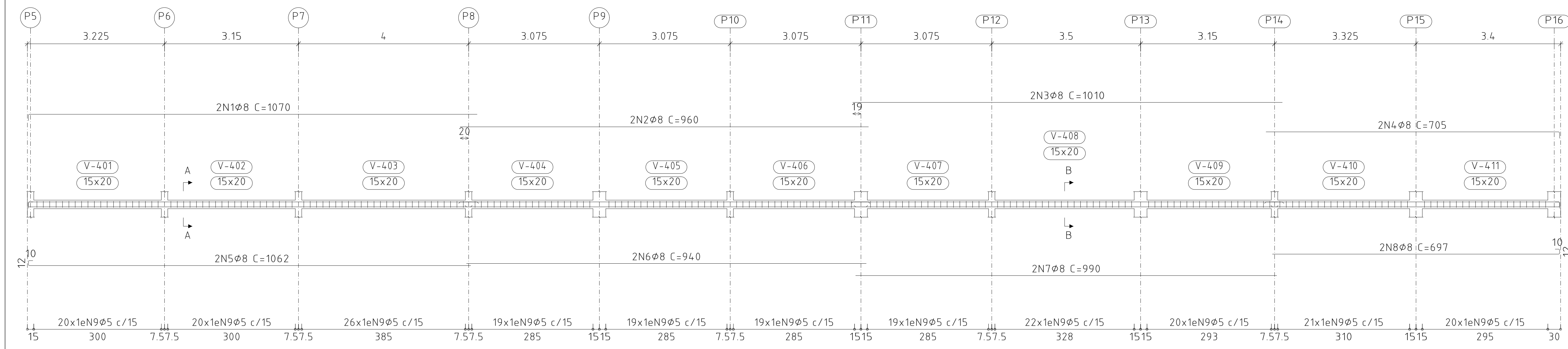
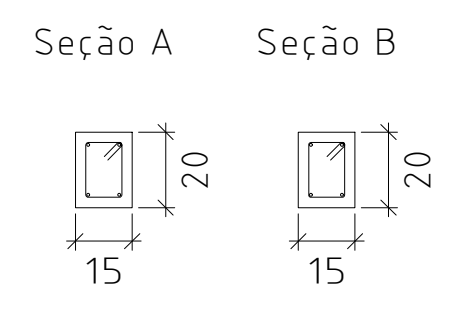


Baldrame
Desenho de vigas
Concreto C25, em geral
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:20
Escala aberturas 1:20

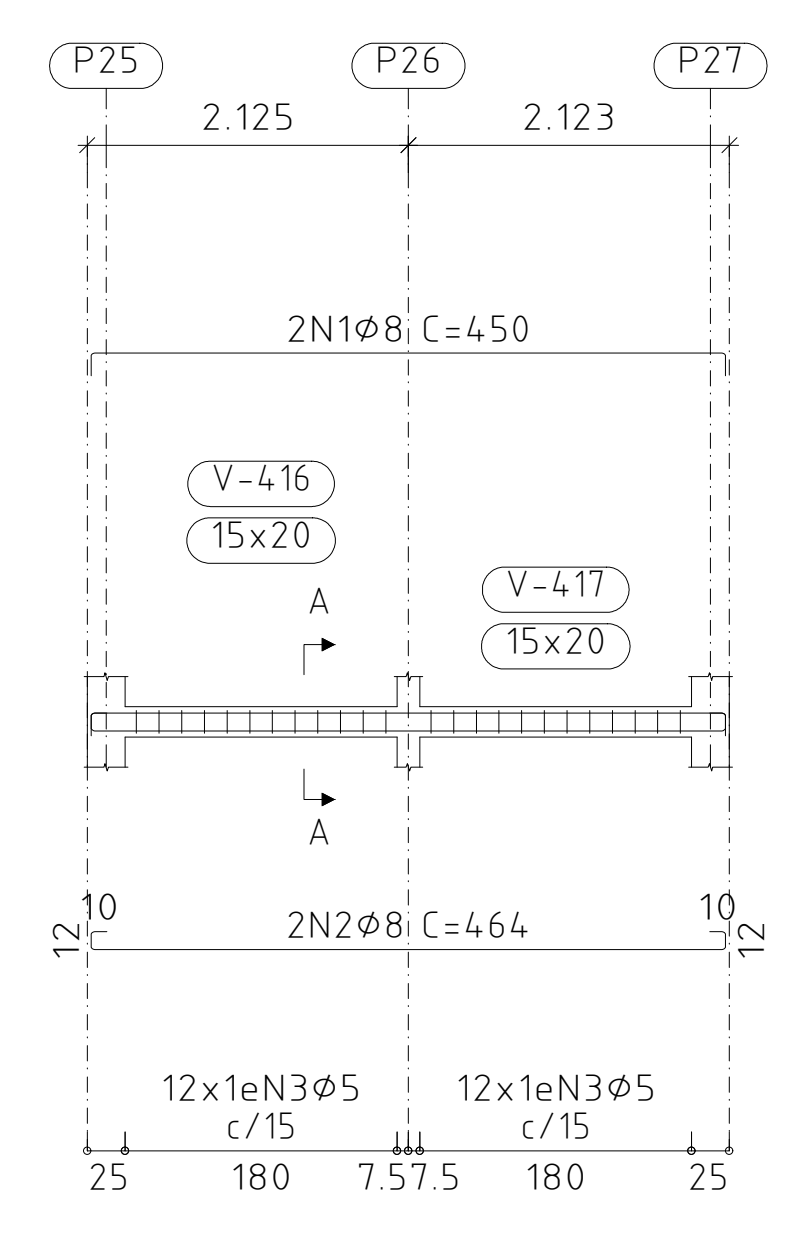
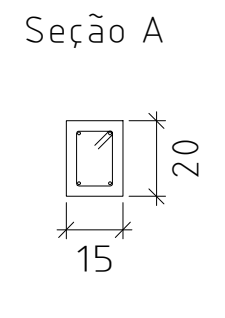
Resumo Aço	Comp. total (m)	Peso+10% (kg)	Total
CA-50	1182.2	801	820
CA-60	17.8	19	226
Total	1308.3	820	1046

IDENTIFICAÇÃO DA OBRA	PROJETO ESTRUTURAL - AMPLIAÇÃO DO CEMEI MENINO JESUS II
CONTEÚDO	DETALHAMENTO DAS VIGAS BALDRAMES (2/2)
ENDEREÇO	RUA DR. PINTO DE OLIVEIRA, 564, VILA COLI, ELÓI MENDES - MG
RESP. TÉCNICO	BRUNO AMBROSIO COELHO
PROPRIETÁRIO	PREFEITURA MUNICIPAL DE ELÓI MENDES
DATA	AGOSTO/2026
PRANCHA	15/18

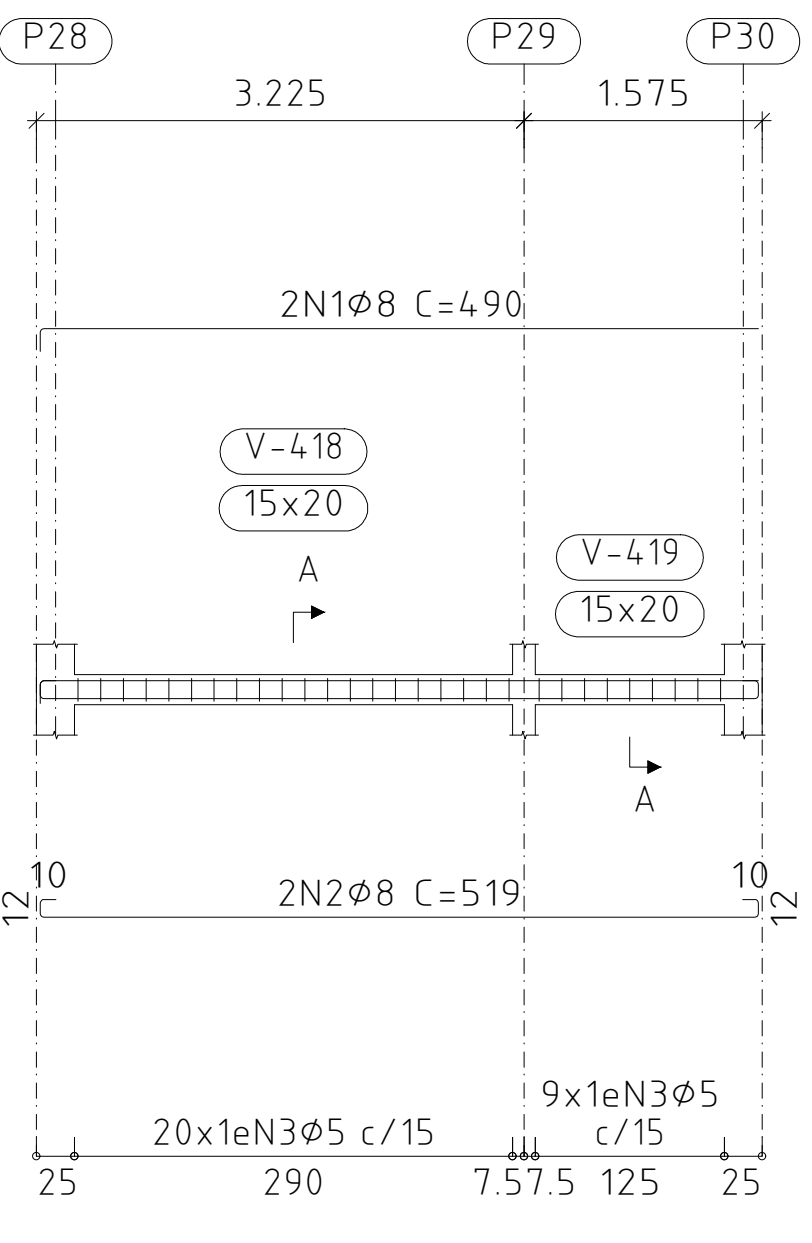
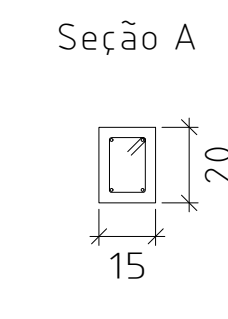
V 1
Escala vigas 1:50
Escala seções 1:20



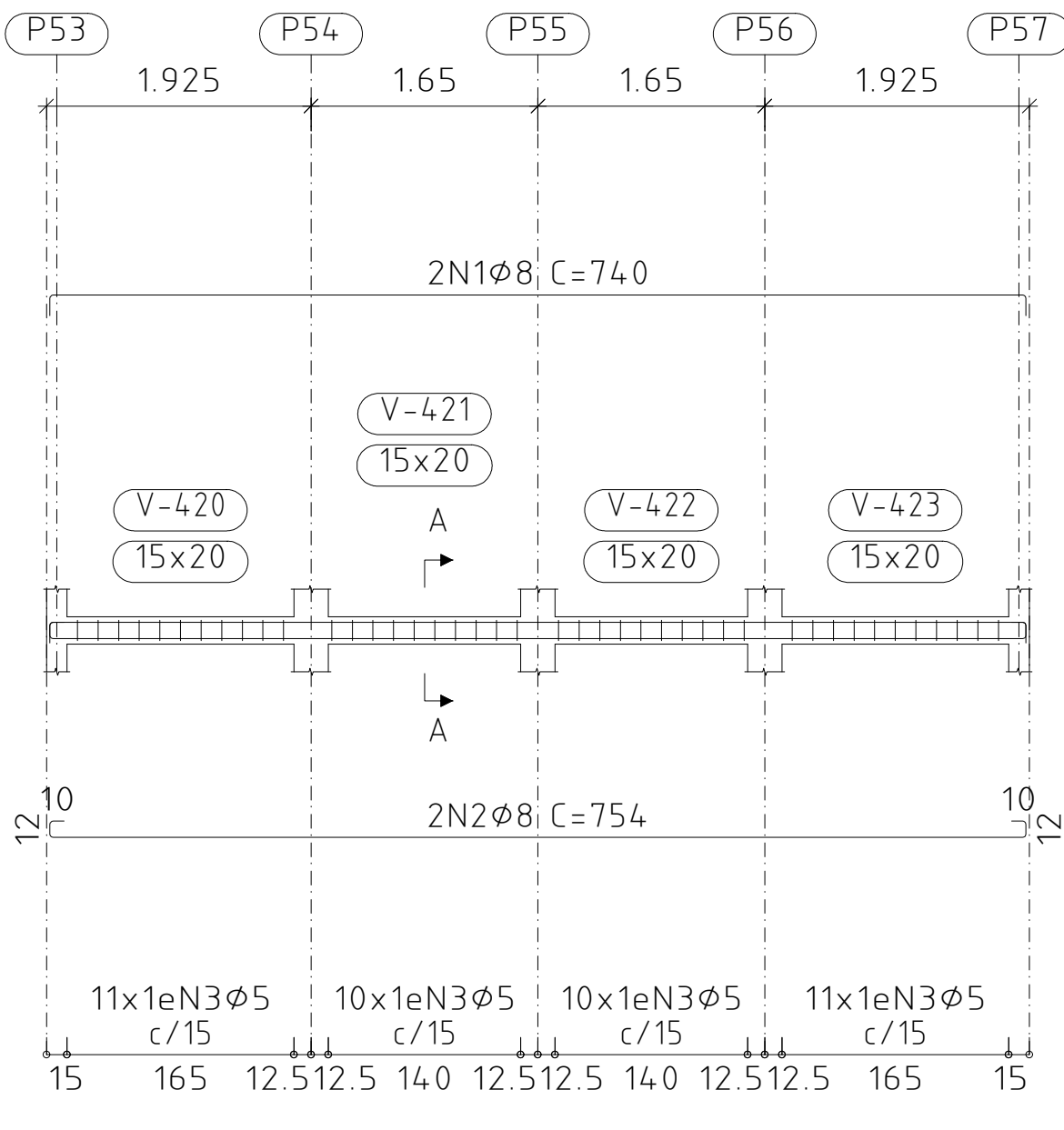
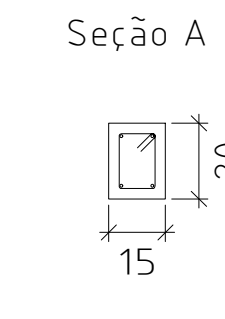
V 3
Escala vigas 1:50
Escala seções 1:20



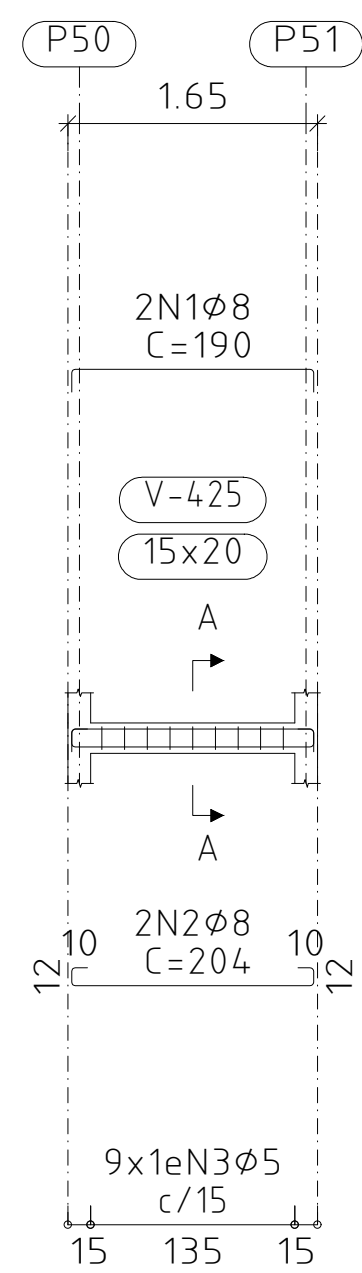
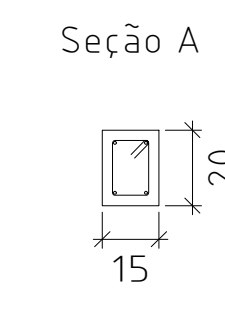
V 4
Escala vigas 1:50
Escala seções 1:20



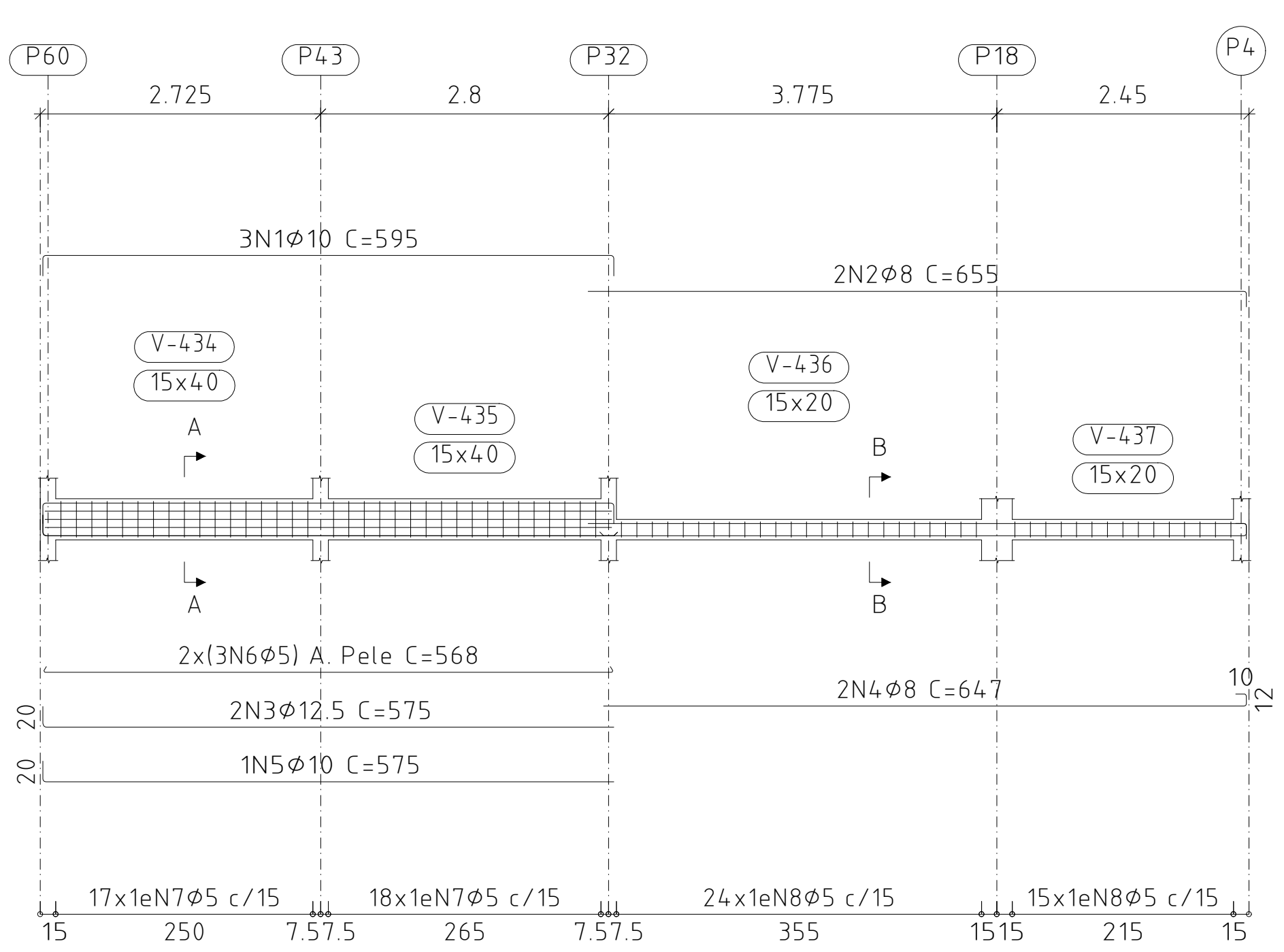
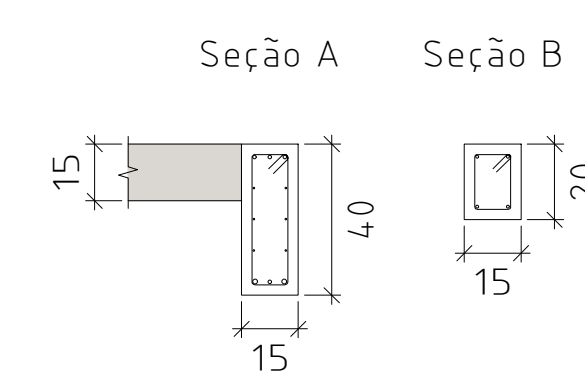
V 5
Escala vigas 1:50
Escala seções 1:20



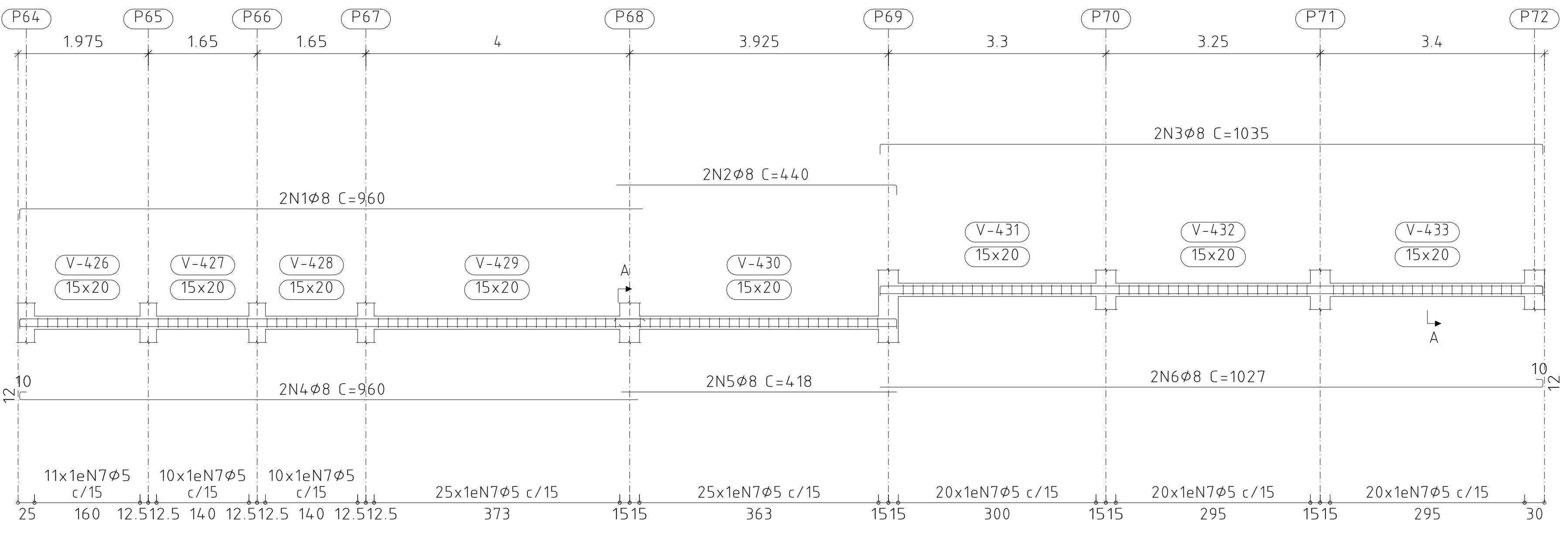
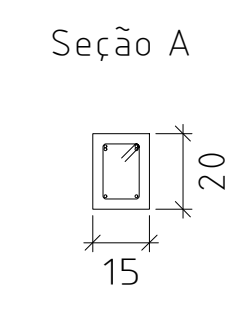
V 7
Escala vigas 1:50
Escala seções 1:20



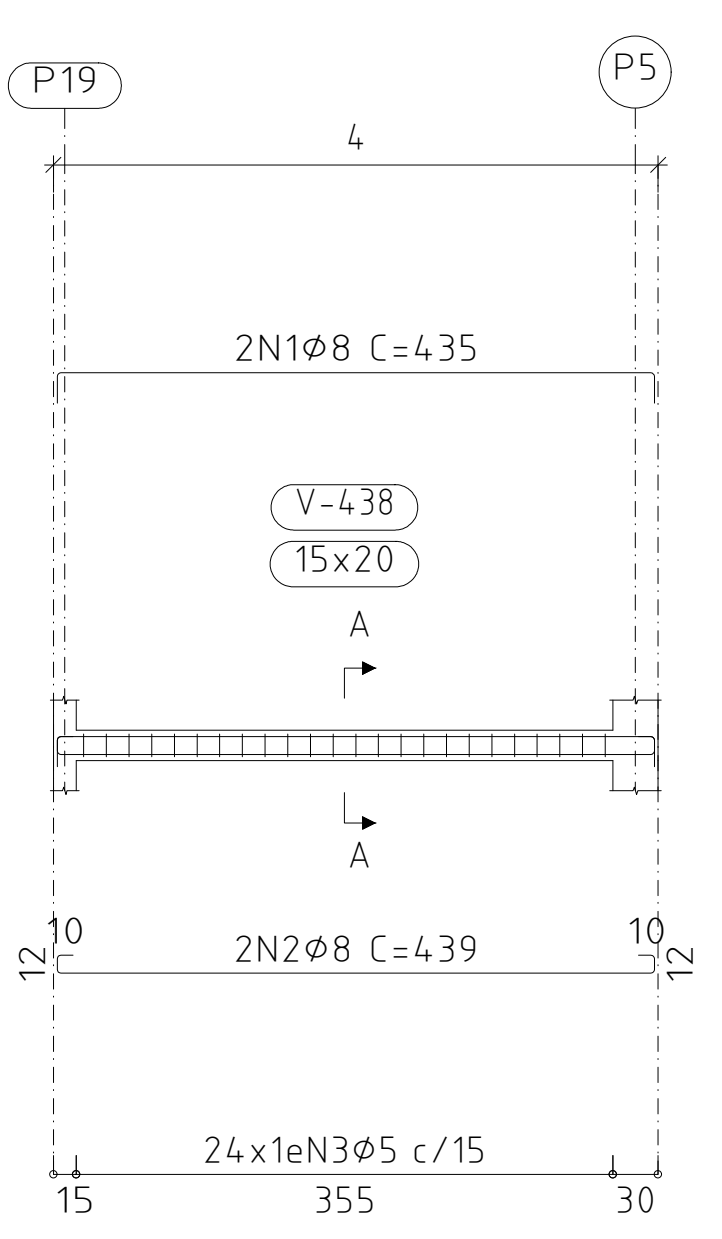
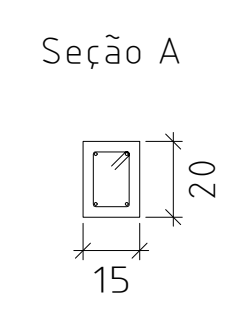
V 9
Escala vigas 1:50
Escala seções 1:20



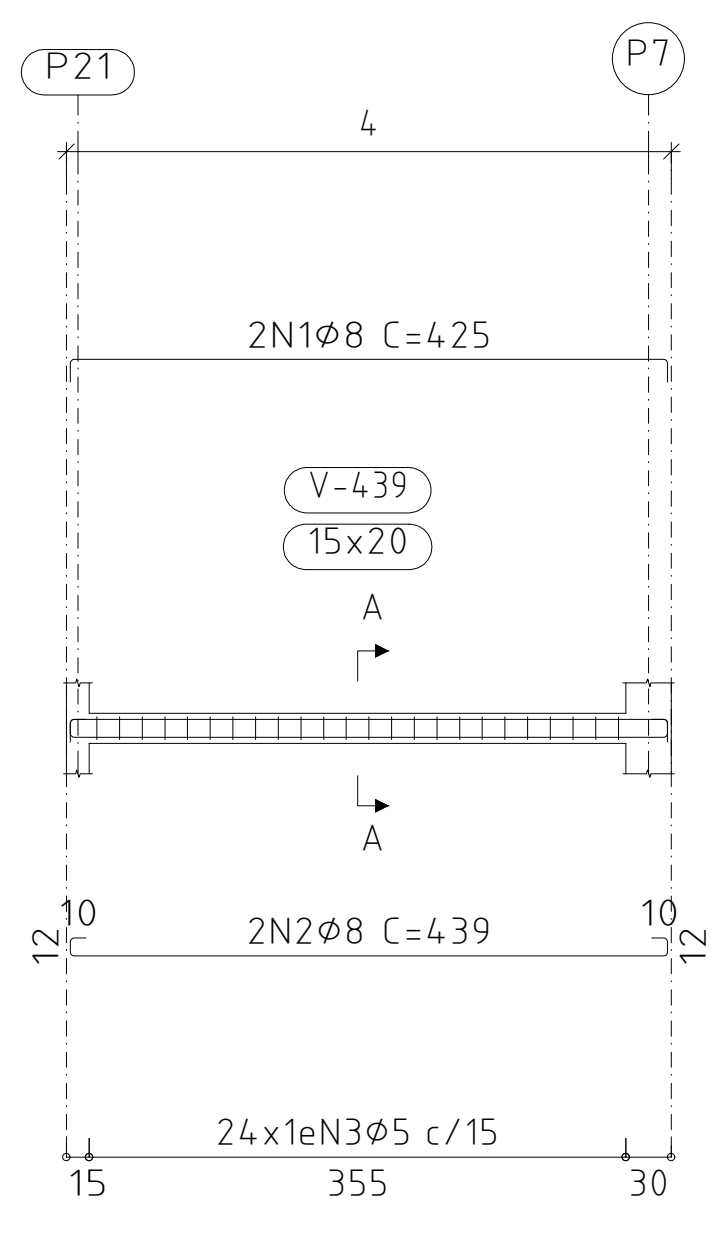
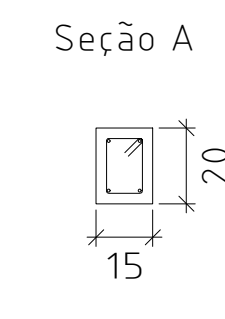
V 8
Escala vigas 1:50
Escala seções 1:20



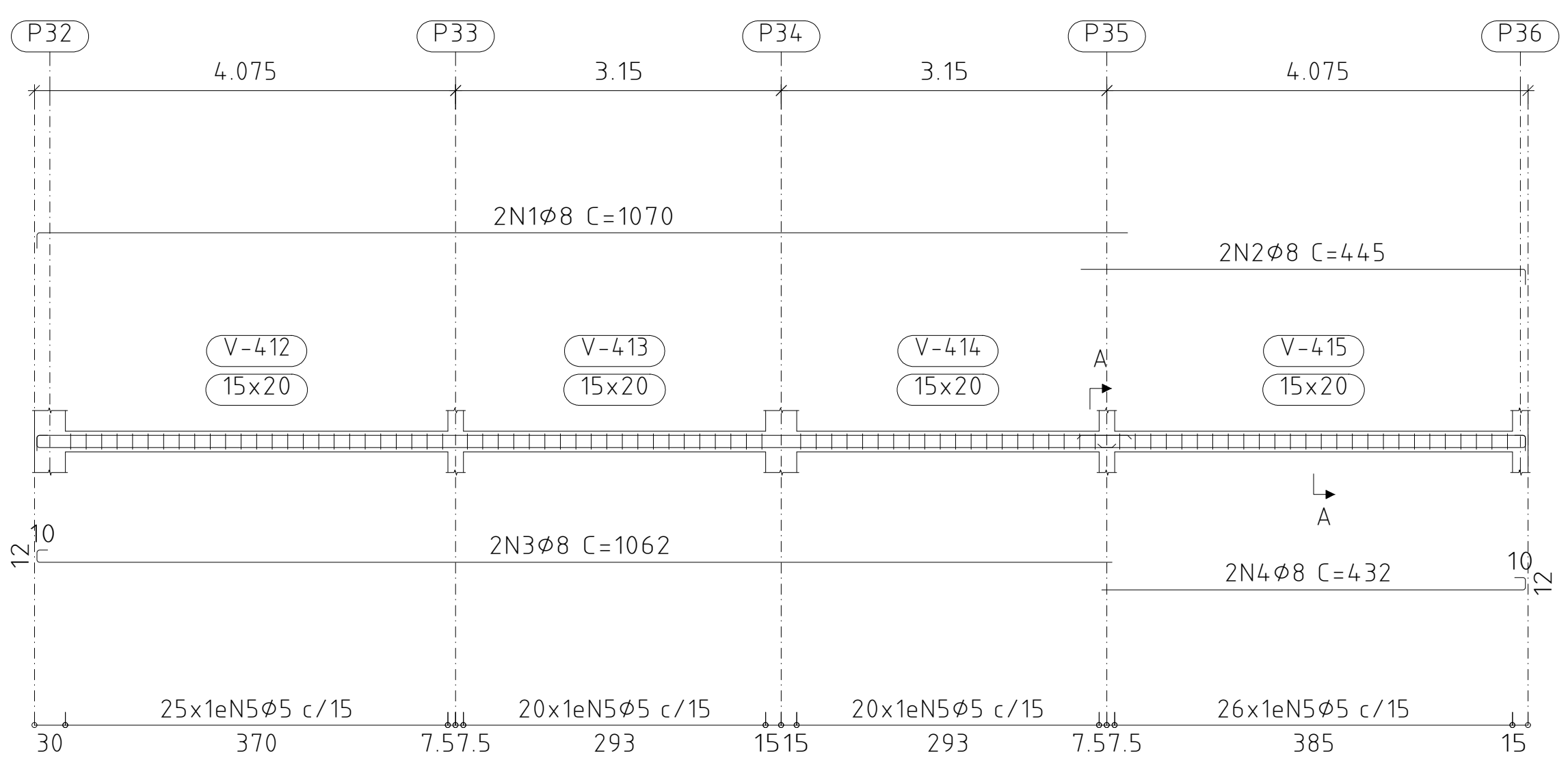
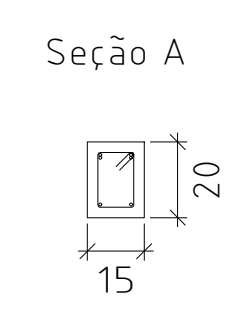
V 10
Escala vigas 1:50
Escala seções 1:20



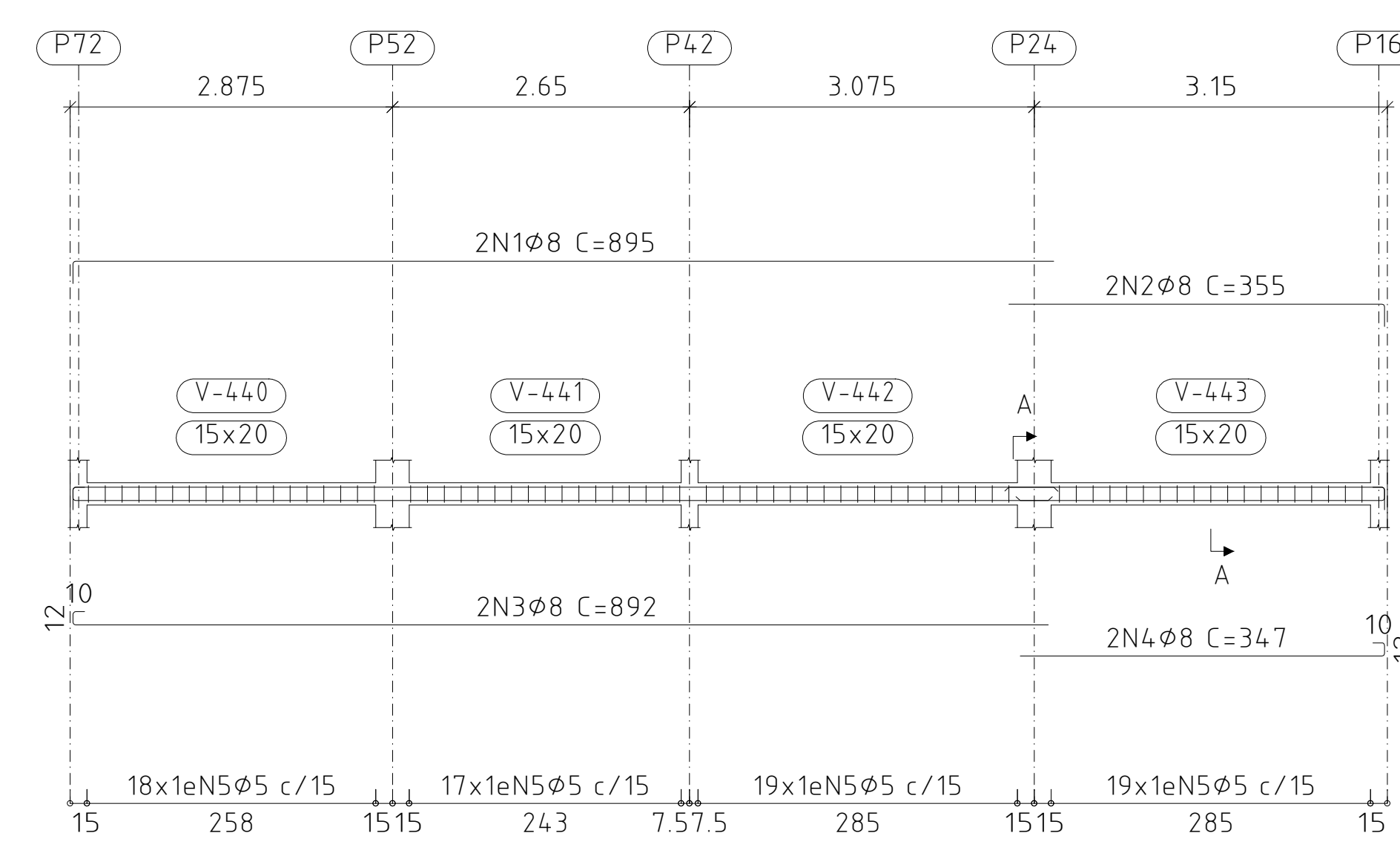
V 11
Escala vigas 1:50
Escala seções 1:20



V 2
Escala vigas 1:50
Escala seções 1:20



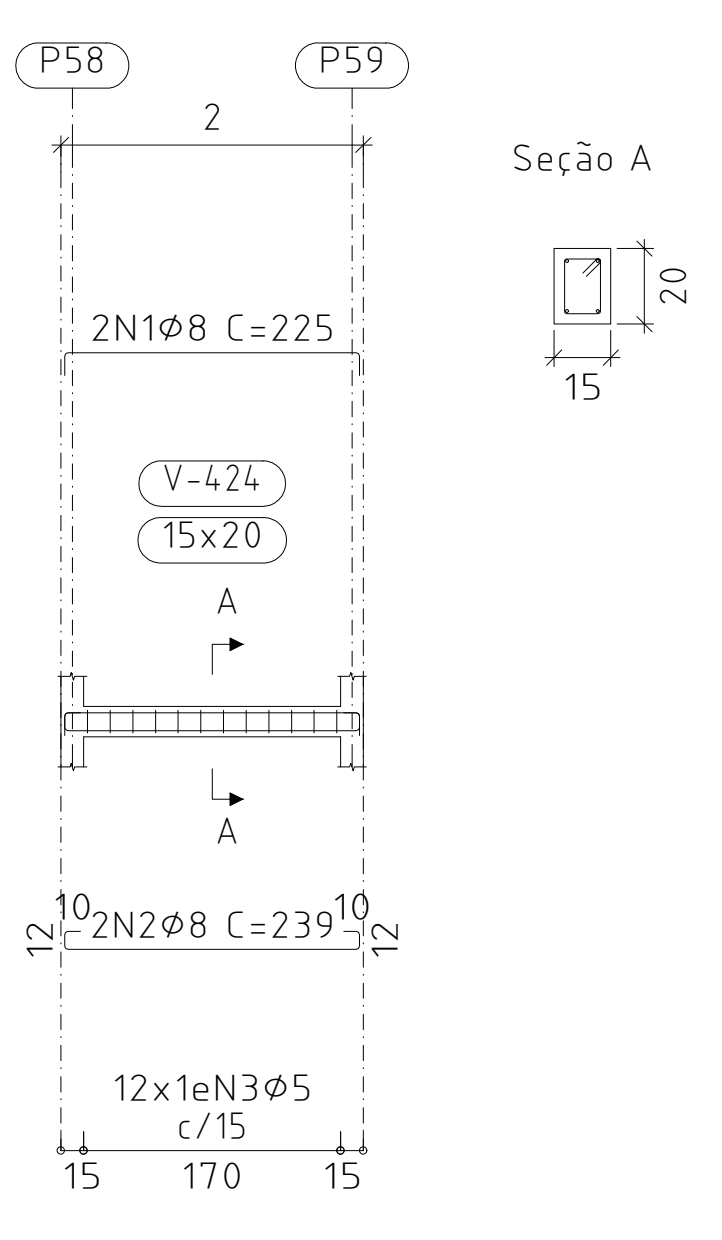
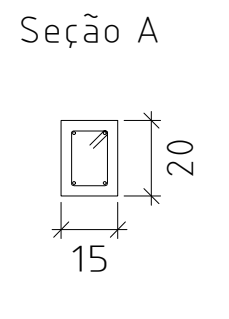
V 12
Escala vigas 1:50
Escala seções 1:20



Verga (2,60 m)
Desenho de vigas
Concreto C25, em geral
Aço das barras CA-50 e CA-60
Aço dos esbrios CA-50 e CA-60
Escala vigas 1:50
Escala seções 1:20
Escala aberturas 1:20

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
V 2	1	Ø8	2		1070	2140	8.4	
	2	Ø8	2		445	890	3.5	
	3	Ø8	2		1062	2124	8.4	
	4	Ø8	2		432	864	3.4	
	5	Ø5	91		58	5278		8.3
Total+10%							26.1	9.1
V 3	1	Ø8	2		450	900	3.6	
	2	Ø8	2		464	928	3.7	
	3	Ø5	24		58	1392		2.2
Total+10%							8.0	2.4
V 4	1	Ø8	2		490	980	3.9	
	2	Ø8	2		519	1038	4.1	
	3	Ø5	29		58	1682		2.6
Total+10%							8.8	2.9
V 5	1	Ø8	2		740	1480	5.8	
	2	Ø8	2		754	1508	6.0	
	3	Ø5	42		58	2436		3.8
Total+10%							13.0	4.2
V 6	1	Ø8	2		450	900	3.6	
	2	Ø8	2		478	956	3.8	
	3	Ø5	12		58	696		1.1
Total+10%							4.1	1.2
V 7	1	Ø8	2		190	380	1.5	
	2	Ø8	2		204	408	1.6	
	3	Ø5	9		58	522		0.8
Total+10%							3.4	0.9
V 9	1	Ø10	3		595	1190	11.0	
	2	Ø8	2		655	1310	5.2	
	3	Ø12.5	2		575	1150	11.1	
	4	Ø8	2		647	1294	5.1	
	5	Ø10	1		575	575	3.5	
	6	Ø5	6		568	3608		5.4
	7	Ø5	35		98	3630		5.4
	8	Ø5	39		58	2262		3.6
Total+10%							39.5	15.8
V 10	1	Ø8	2		435	870	3.4	
	2	Ø8	2		439	878	3.5	
	3	Ø5	24		58	1392		2.2
Total+10%							7.6	2.4
V 11	1	Ø8	2		425	850	3.4	
	2	Ø8	2		439	878	3.5	
	3	Ø5	24		58	1392		2.2
Total+10%							7.6	2.4
V 1	1	Ø8	2		1070	2140	8.4	
	2	Ø8	2		440	880	3.5	
	3	Ø8	2		1010	2020	8.0	
	4	Ø8	2		705	1410	5.6	
	5	Ø8	2		1062	2124	8.4	
	6	Ø8	2		940	1880	7.4	
	7	Ø8	2		990	1980	7.8	
	8	Ø8	2		697	1394	5.5	
	9	Ø5	225		58	13050		20.5
Total+10%							64.6	22.6
V 8	1	Ø8	2		960	1920	7.6	
	2	Ø8	2		440	880	3.5	
	3	Ø8	2		1035	2070	8.2	
	4	Ø8	2		960	1920	7.6	
	5	Ø8	2		418	836	3.3	
V 12	1	Ø8	2		895	1790	7.1	
	2	Ø8	2		355	710	2.8	
	3	Ø8	2		892	1784	7.0	
Total+10%							21.6	7.3
CA-50	Ø8						218.2	0.0
	Ø10						16.0	0.0
	Ø12.5						12.2	0.0
	Total						246.4	85.3

V 6
Escala vigas 1:50
Escala seções 1:20



Resumo Aço	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø8	501.7	218	
Ø10	23.6	16	
Ø12.5	11.5	12	246
CA-60 Ø5	493.5	85	85
Total			331

DETALHAMENTO DAS VERGAS 2,10 m E 2,60 m

