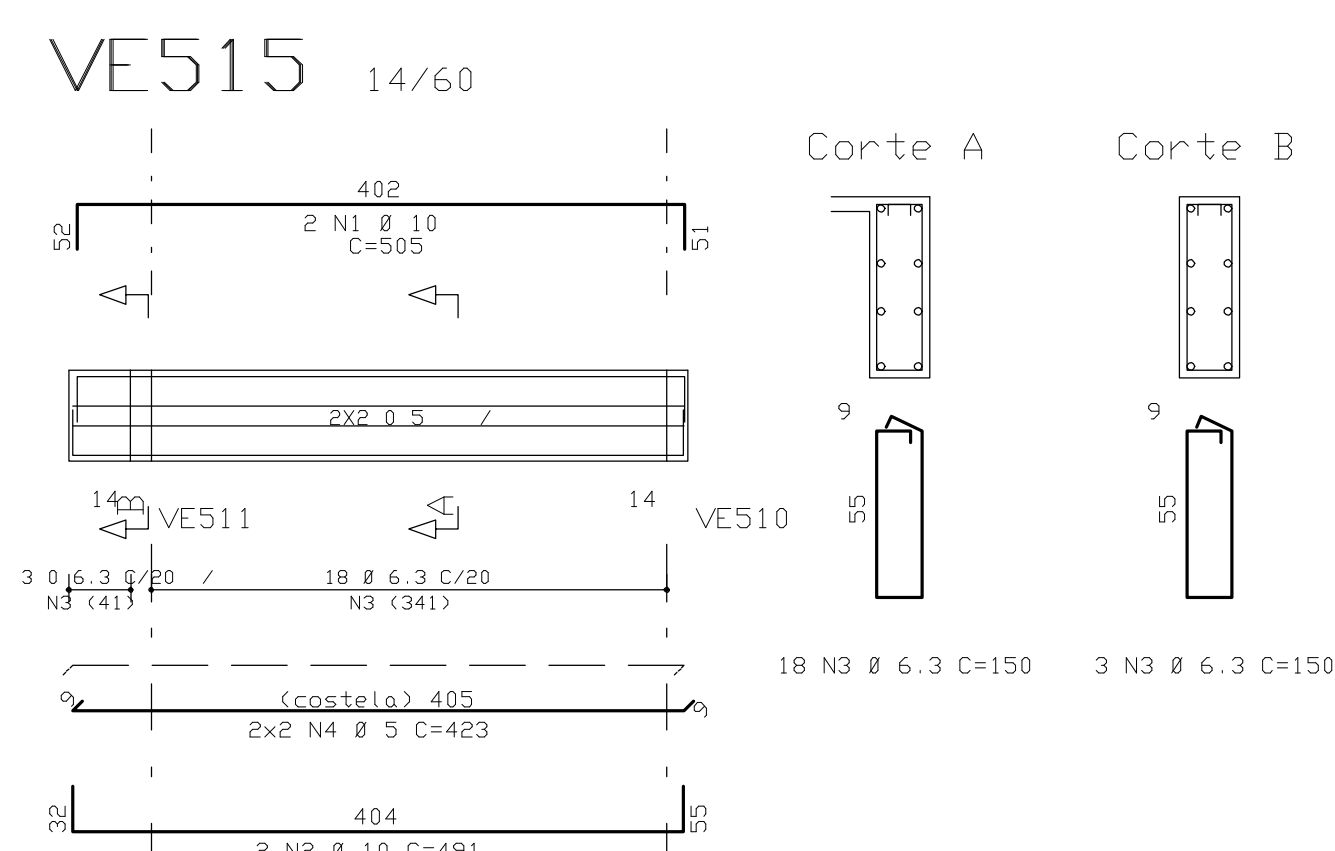
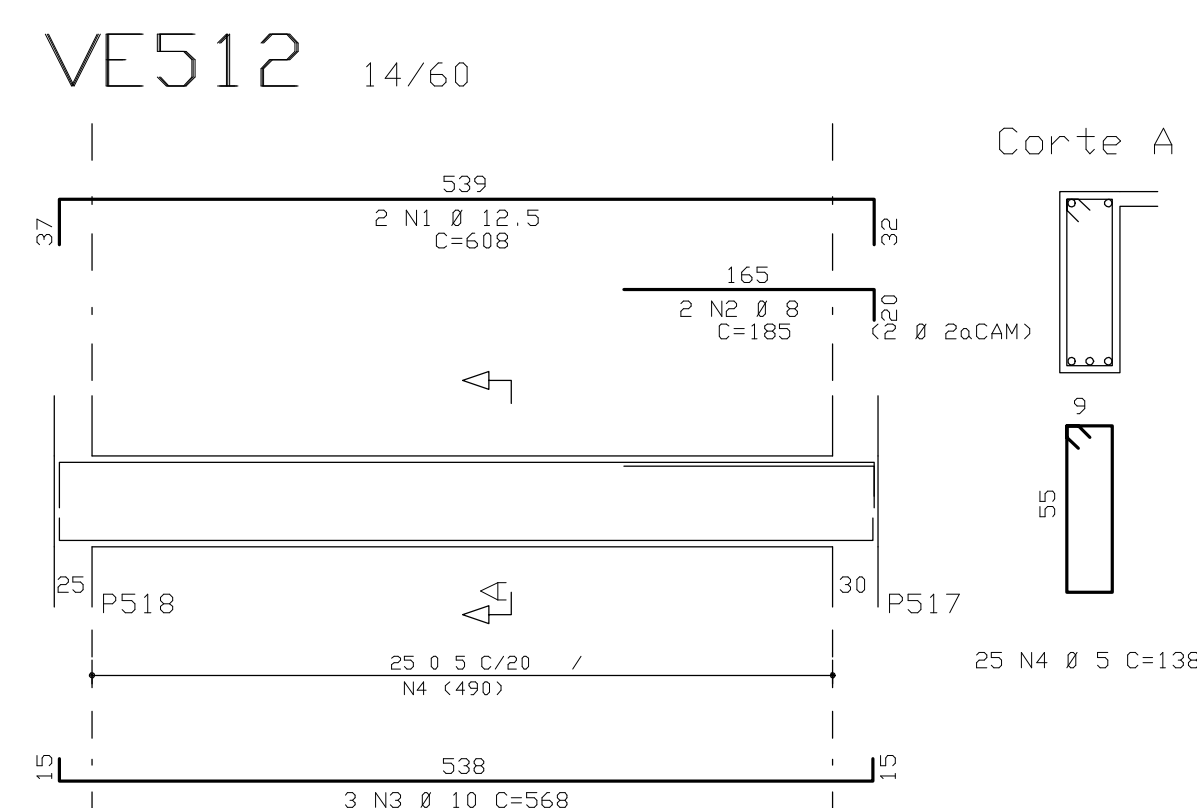
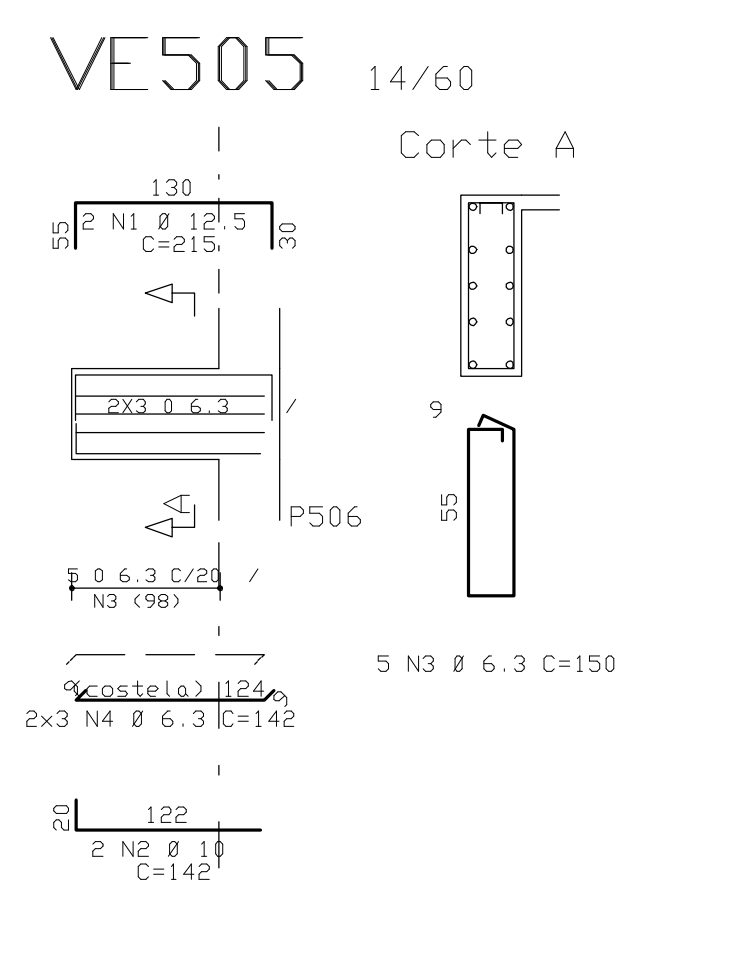
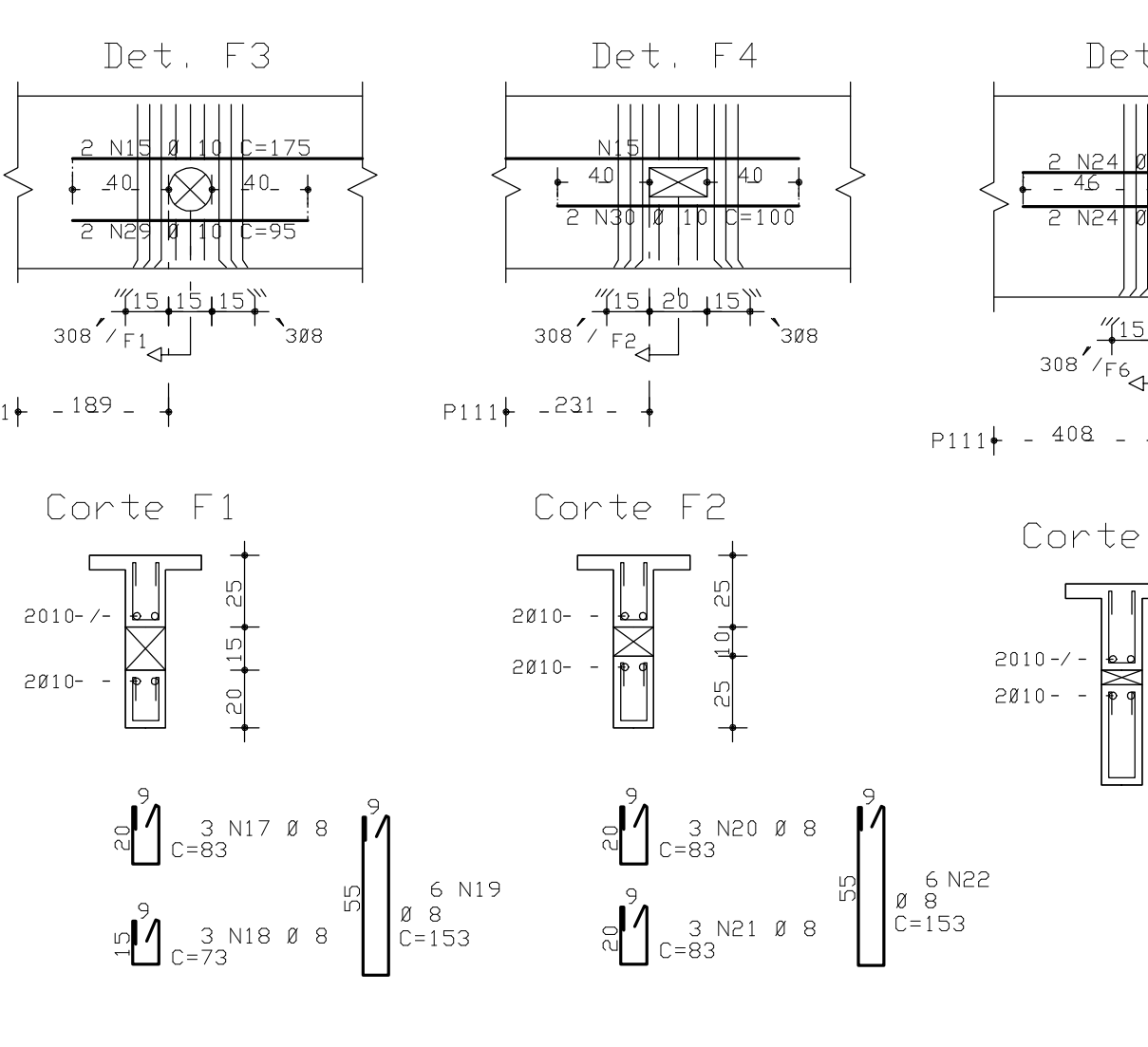
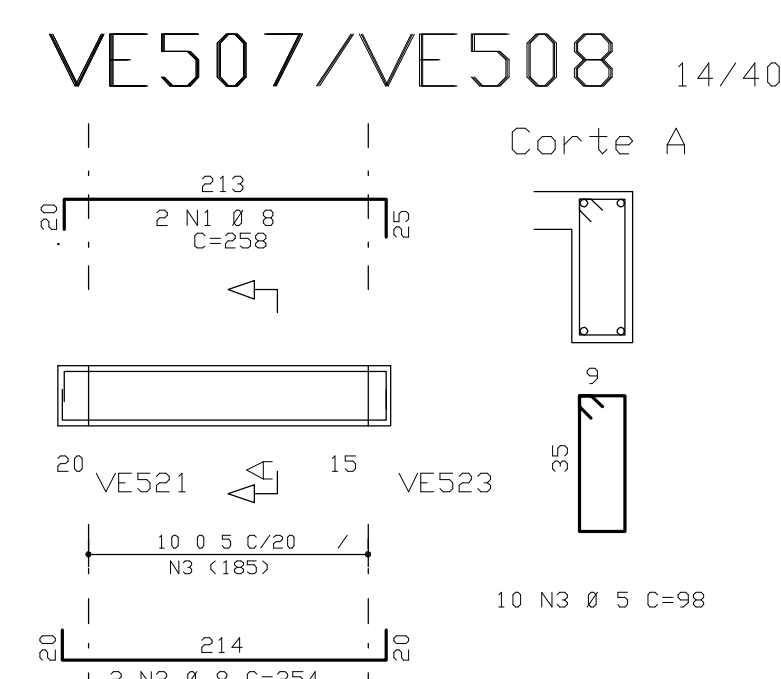
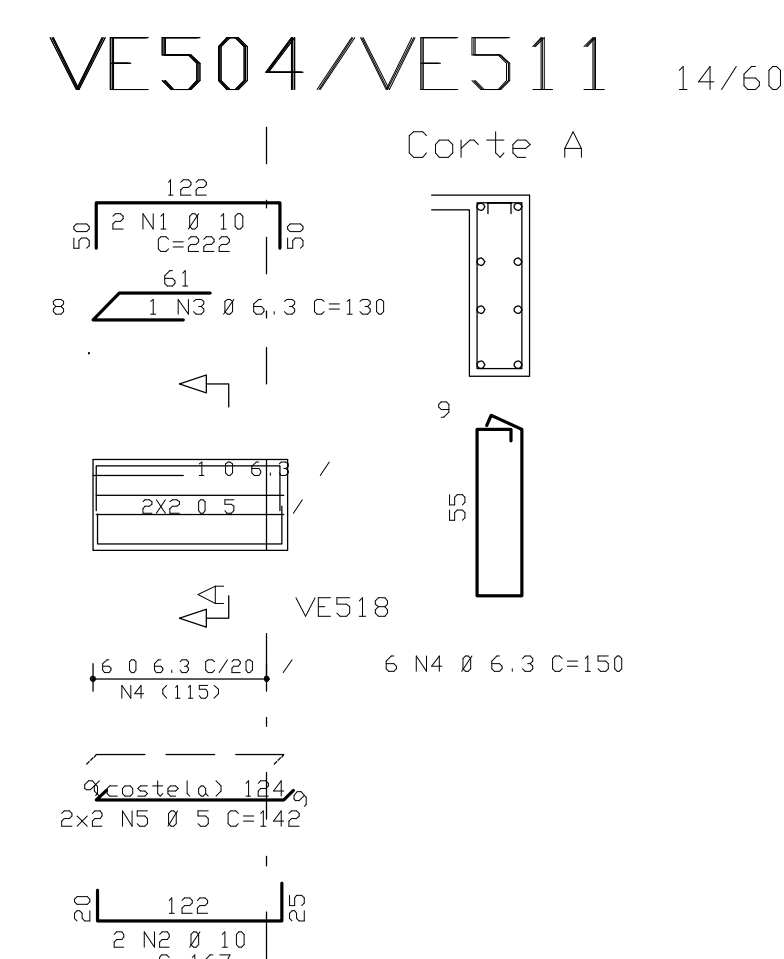
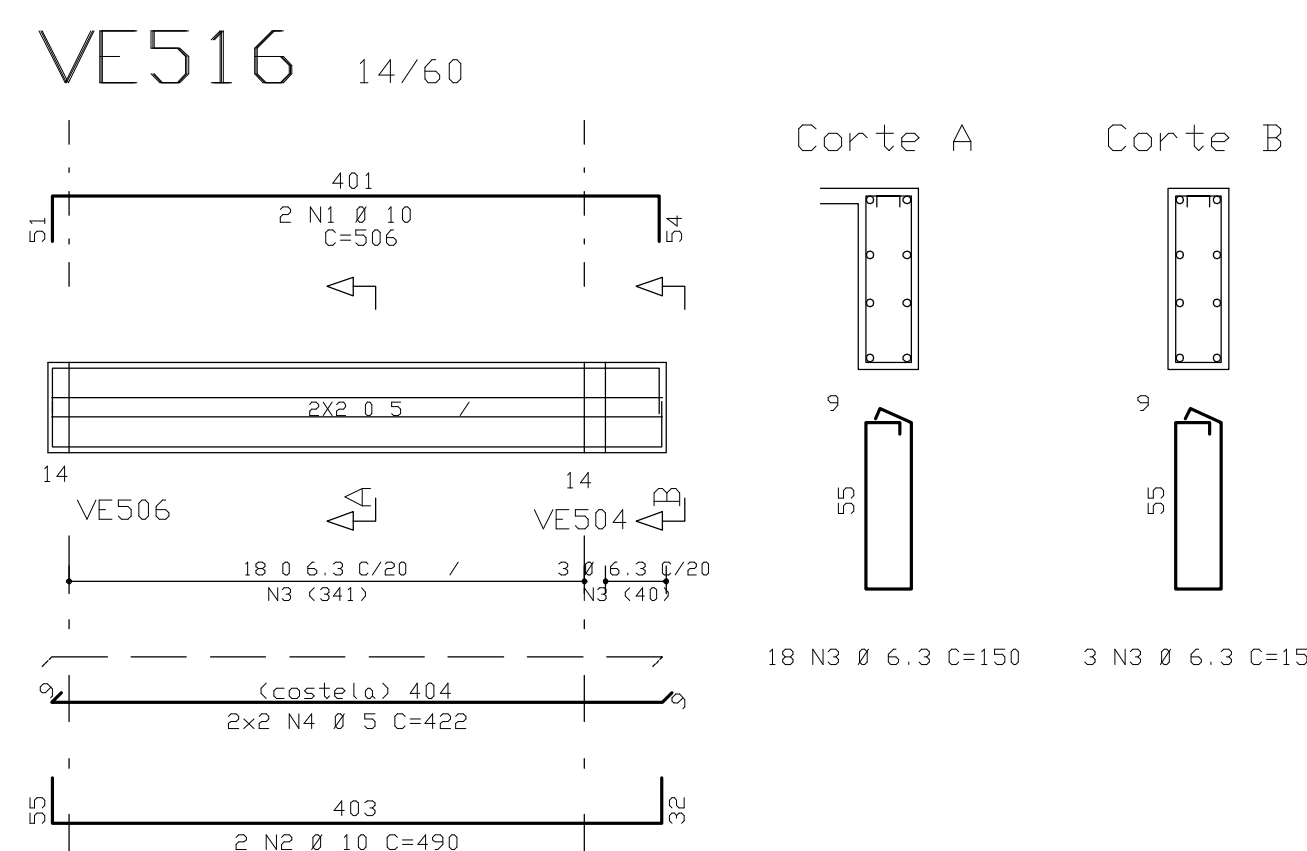
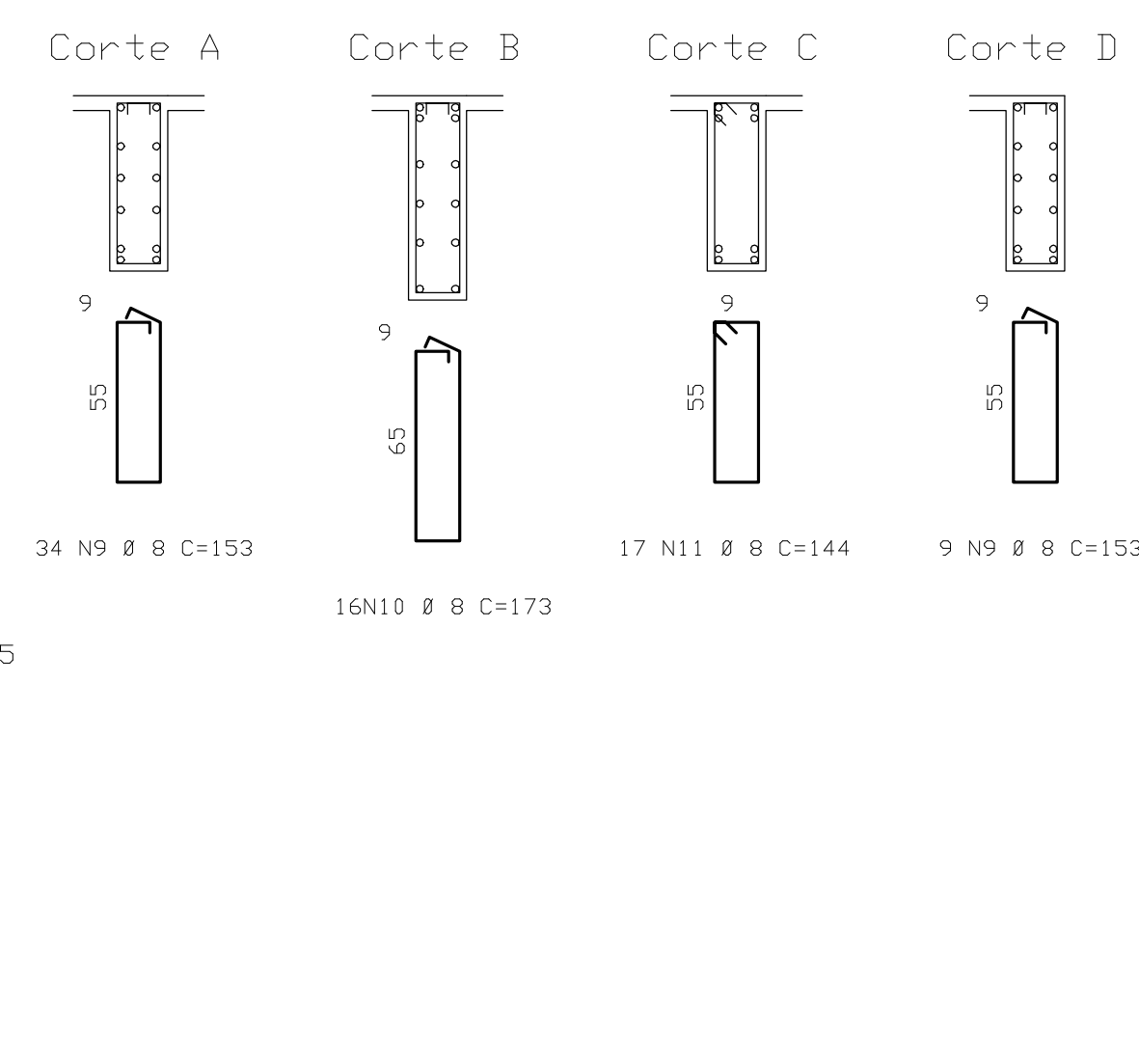
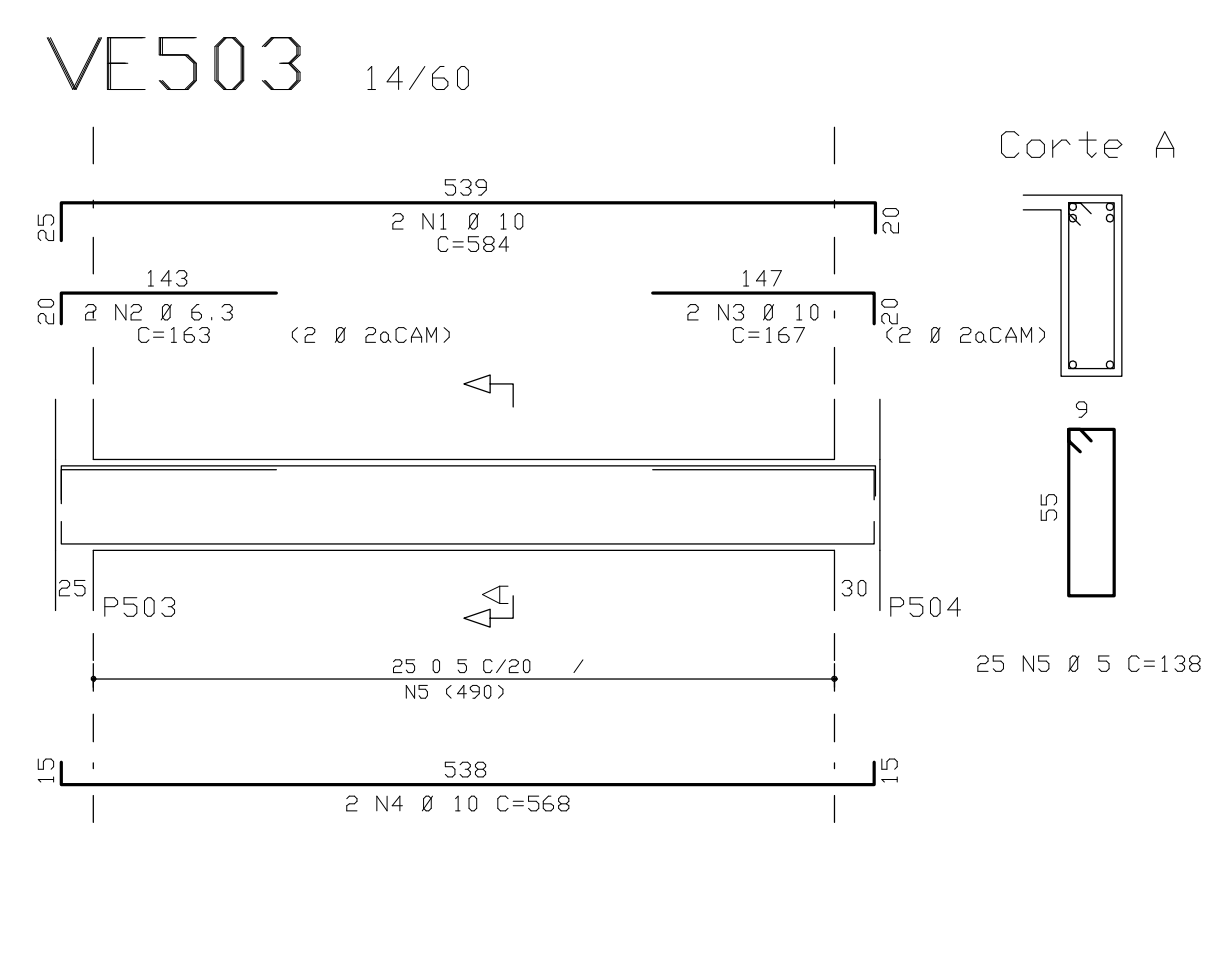
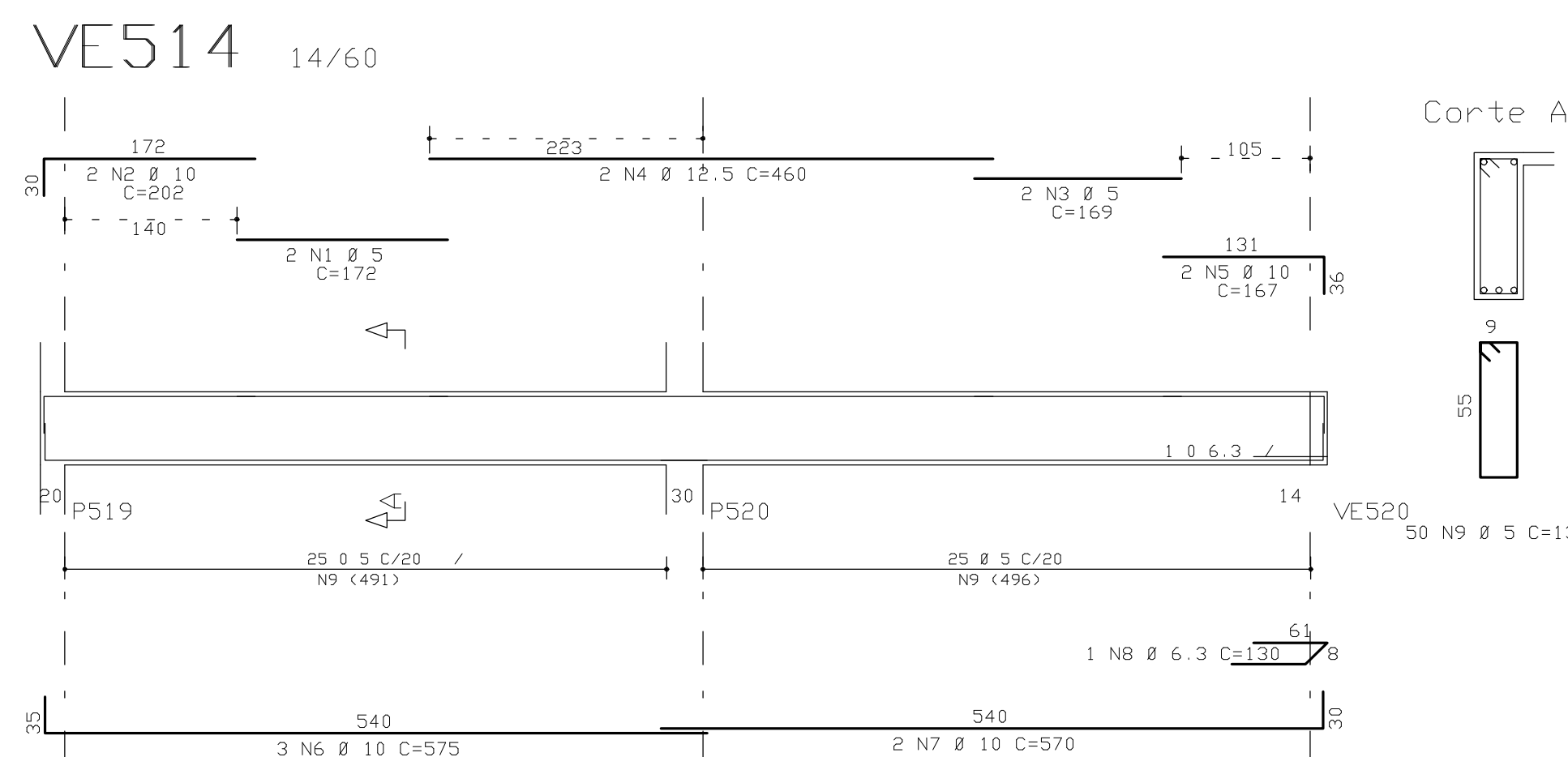
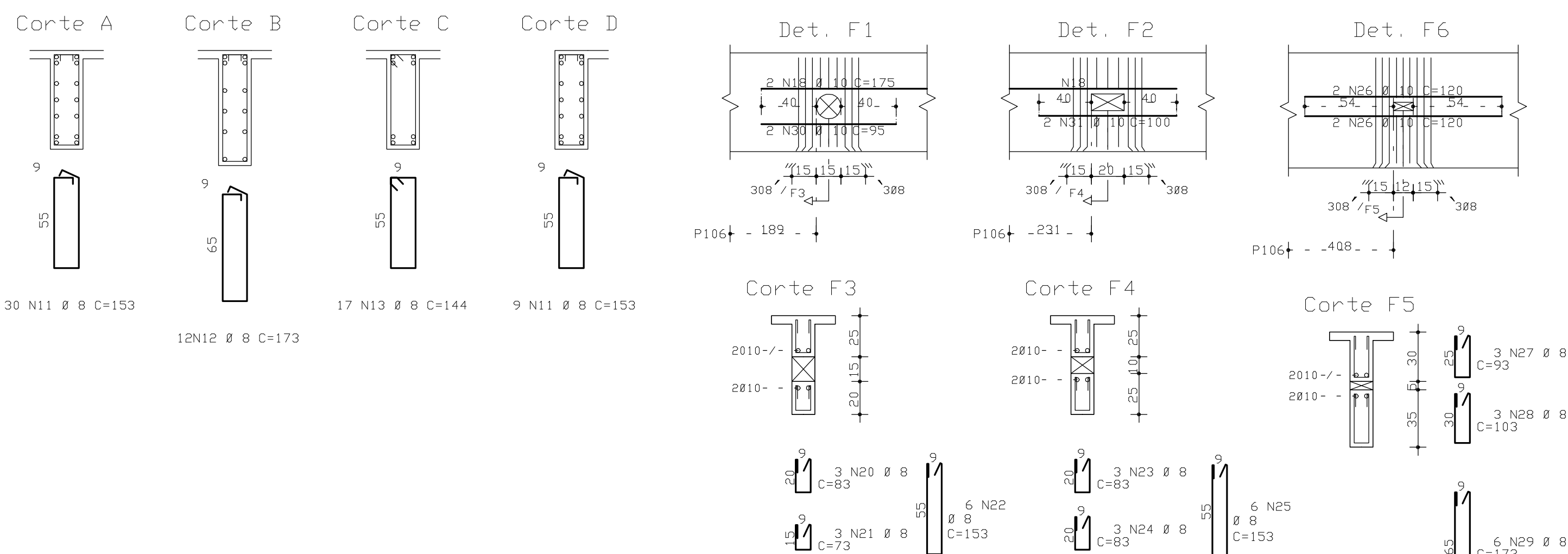
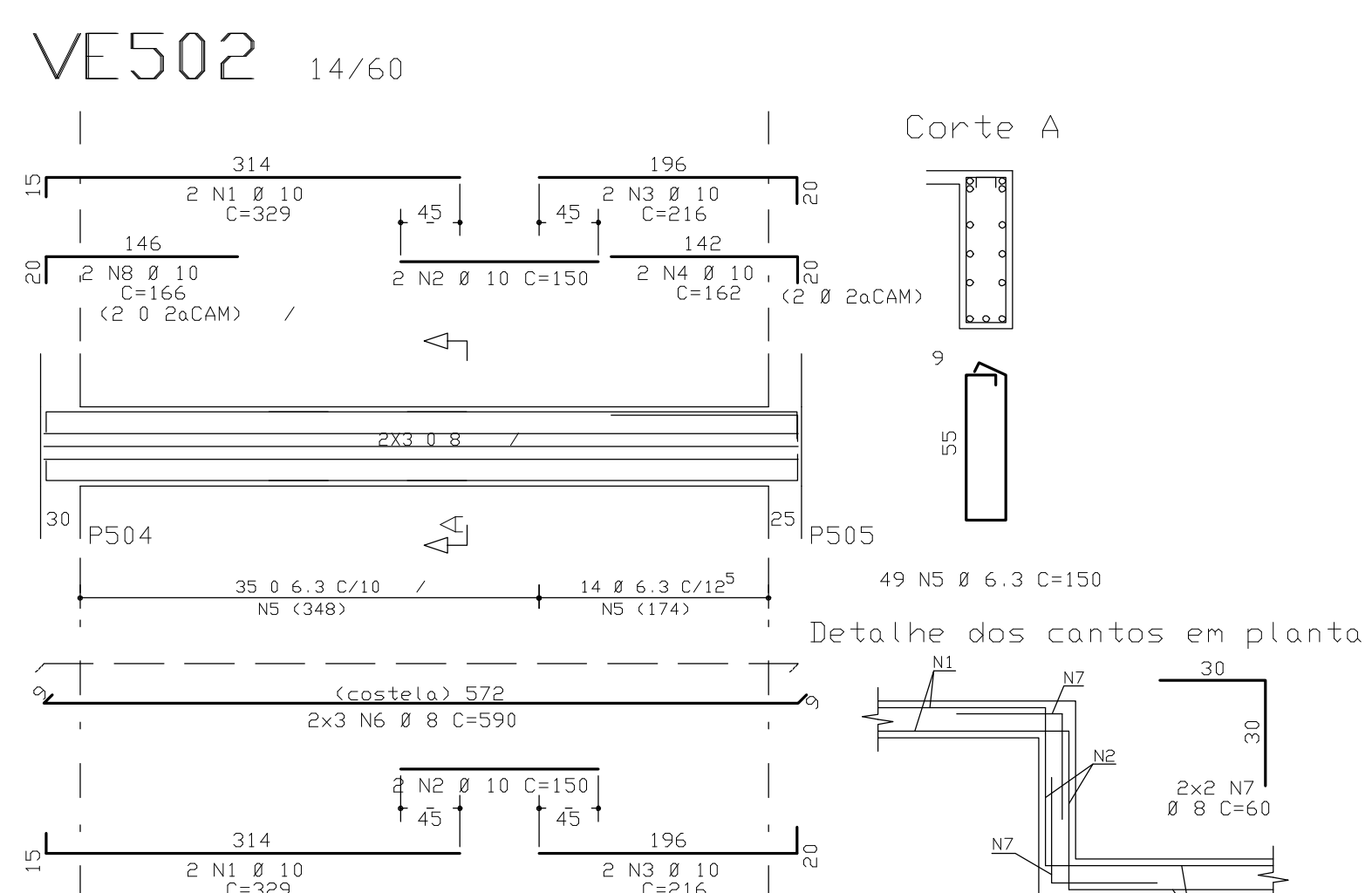
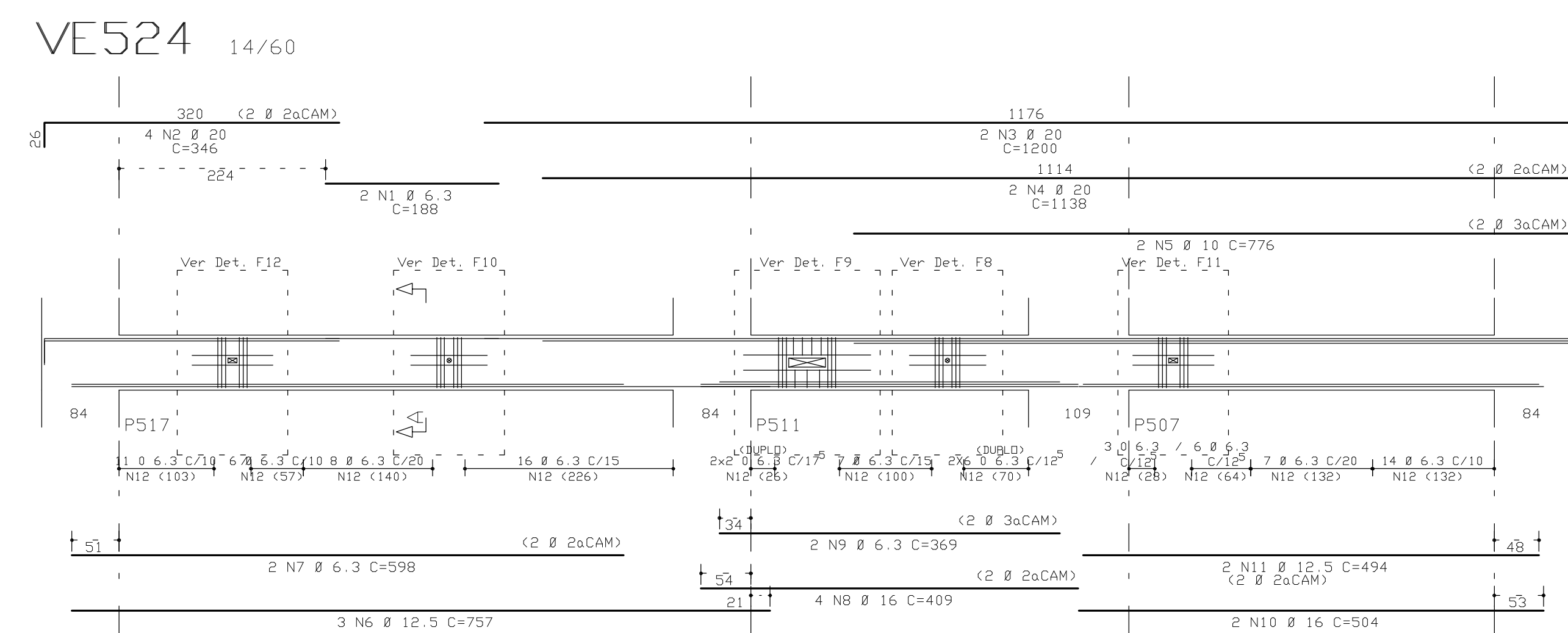
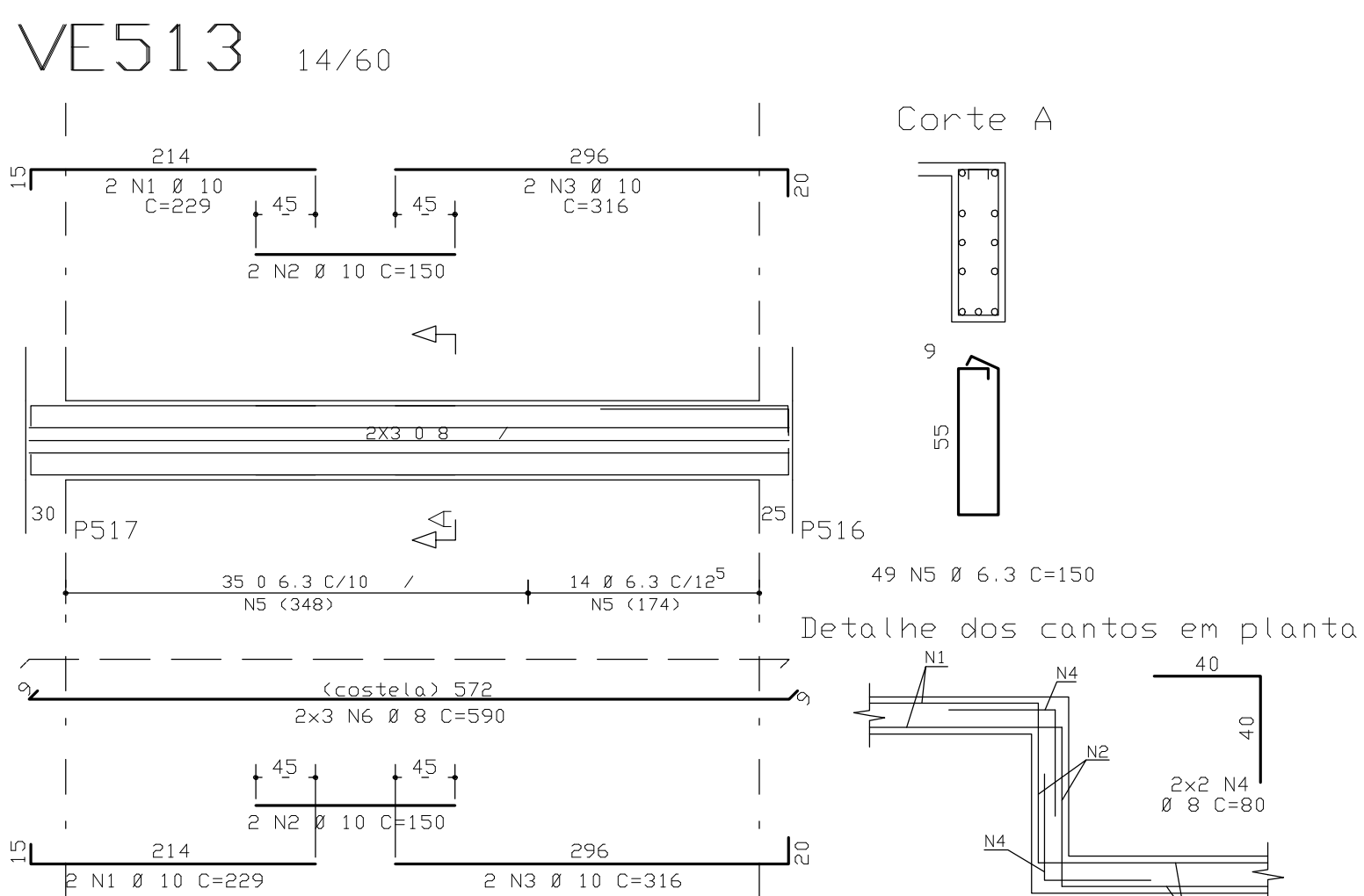
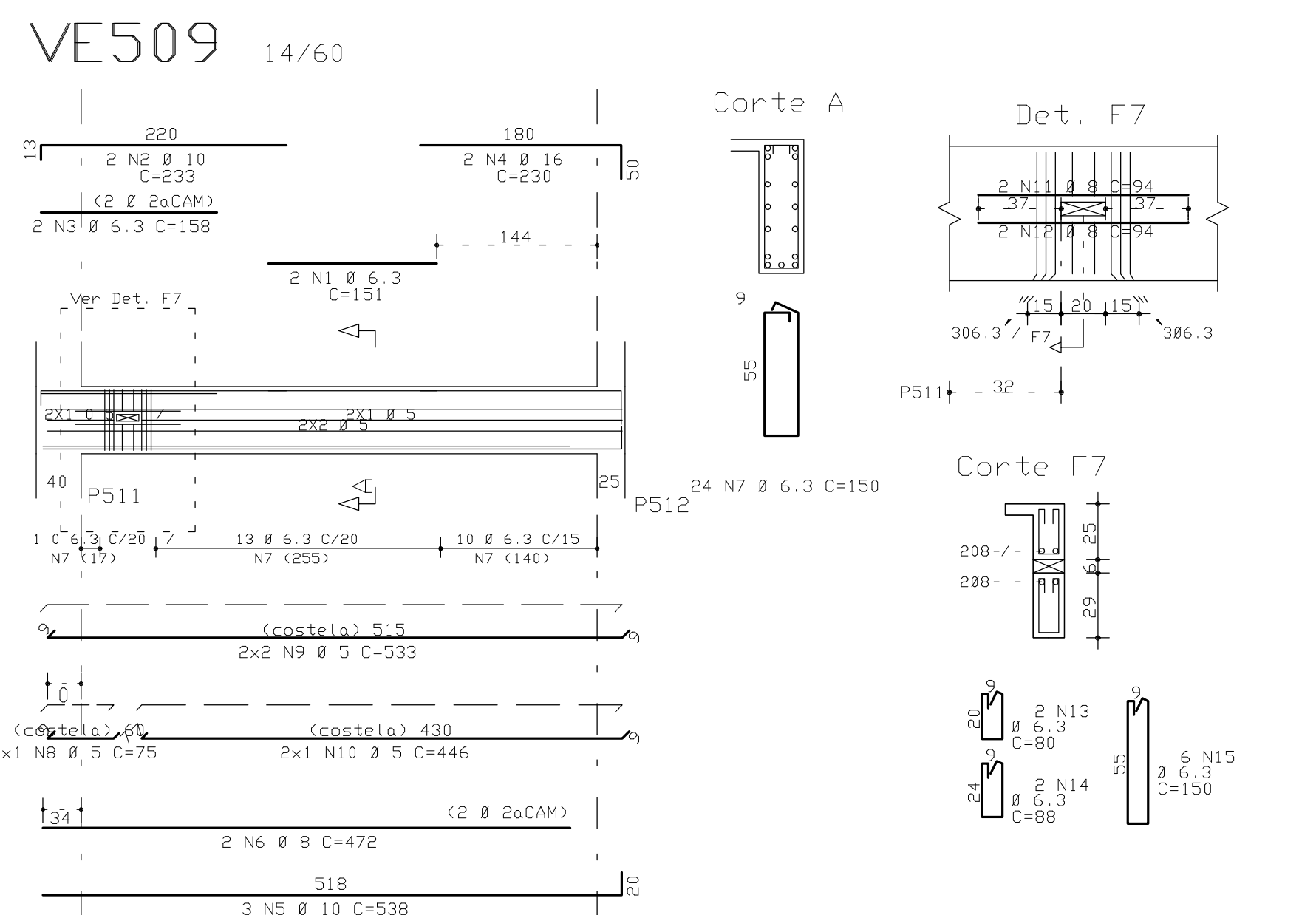
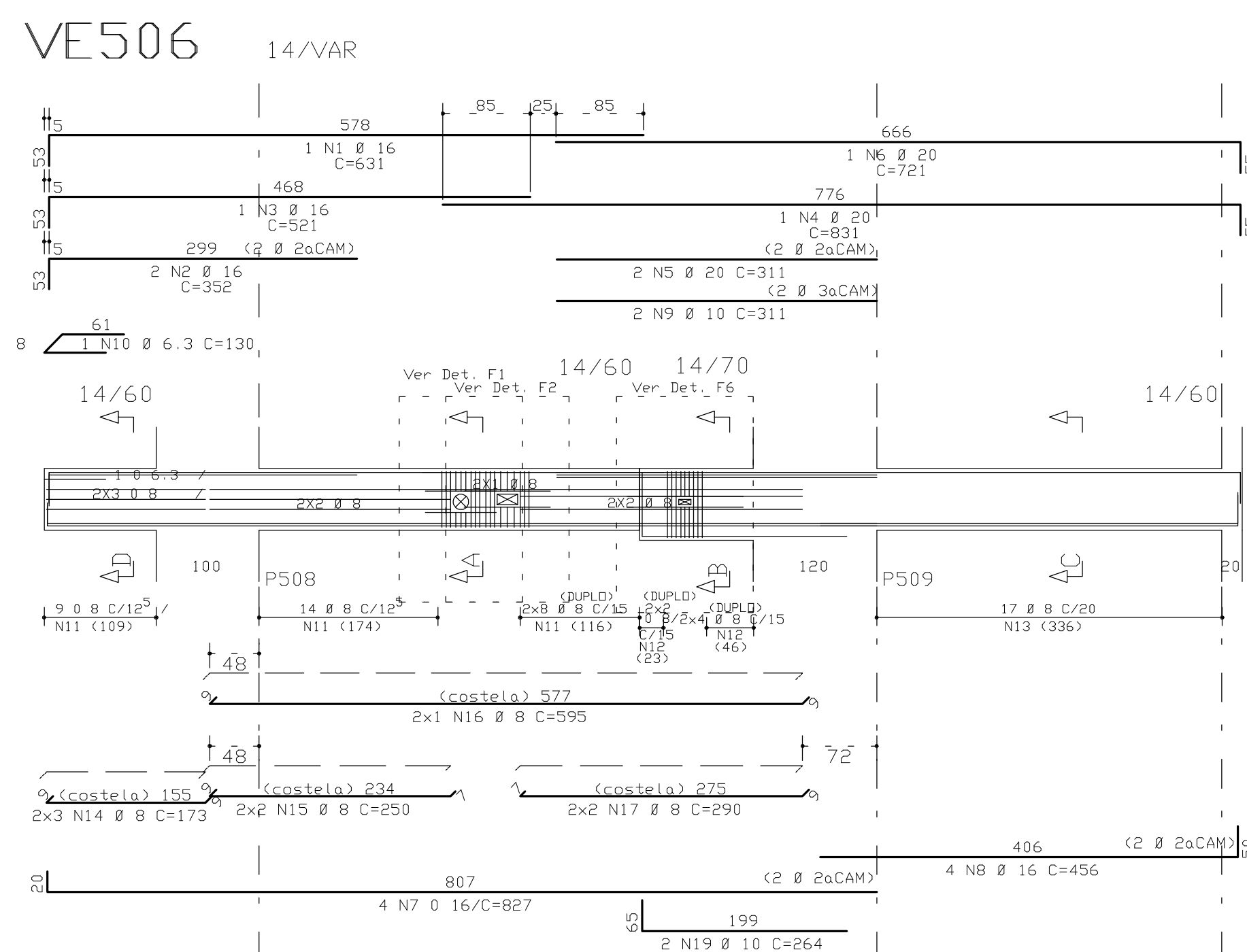
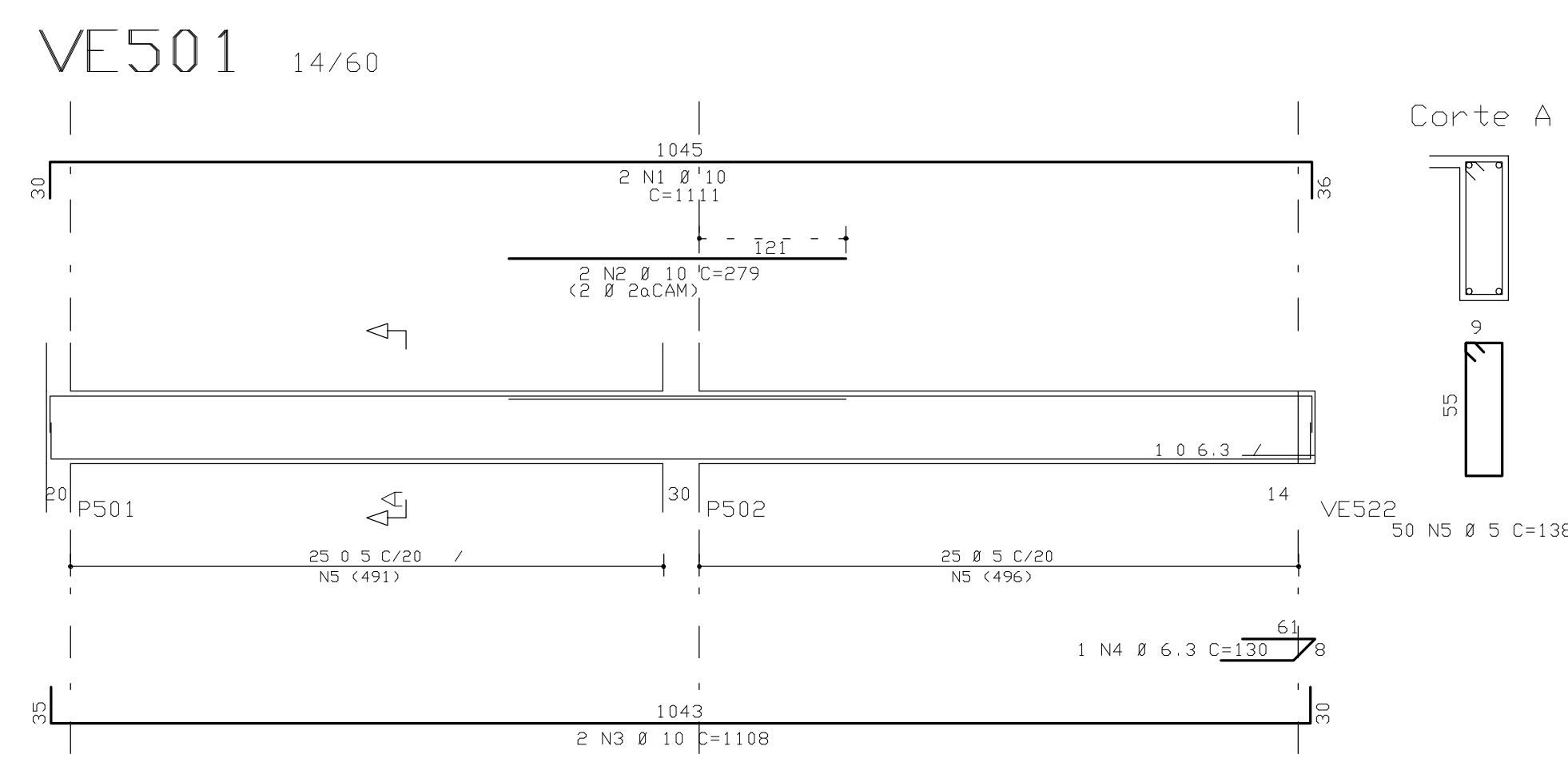




	ACD	POS	BIT	QUANT	COMPLEMENT		ACD	POS	BIT	QUANT	COMPLEMENT
			(cm)		UNIT TOTAL				(cm)		UNIT TOTAL
VE501	S0A	2	10	2	1111 2022	VE516	S0A	1	8	2	185 855
	S0A	2	10	2	1111 2022		S0A	2	8	2	185 855
	S0A	3	10	2	2 1108 2216		S0A	3	20	2	339 669
	S0A	5	3	9	30 138 6216		S0A	5	16	4	839 3356
VE502	S0A	2	10	4	329 1356	S0A	7	16	2	294 988	
	S0A	2	10	4	329 1356	S0A	9	8	2	130 130	
	S0A	3	10	4	216 864	S0A	9	8	2	153 6579	
	S0A	5	3	49	150 7320	S0A	11	8	2	174 144	
	S0A	5	8	4	60 240	S0A	14	8	2	408 408	
	S0A	5	8	4	60 240	S0A	13	8	2	753 1586	
VE503	S0A	2	10	2	1166 3214	S0A	15	10	2	175 320	
	S0A	2	10	2	1166 3214	S0A	16	12	8	249 549	
	S0A	2	13	2	163 3126	S0A	17	8	3	63 249	
	S0A	4	10	8	568 1136	S0A	20	8	6	153 918	
VE504 (K2)	S0A	2	10	8	258 3356	S0A	22	8	3	83 249	
	S0A	3	10	4	228 888	S0A	23	10	2	264 289	
	S0A	3	10	4	167 668	S0A	24	8	4	416 416	
	S0A	2	6	3	12 102 1880	S0A	25	8	3	93 279	
VE505	S0A	3	6	3	8 142 1136	S0A	26	8	3	103 309	
	S0A	3	6	3	8 142 1136	S0A	27	8	6	173 108	
	S0A	2	12	5	2 215 430	S0A	28	12	5	75 75	
	S0A	3	6	3	5 150 752	S0A	29	10	10	95 195	
VE506	S0A	1	16	1	631 631	VE517	S0A	1	12	2	608 1216
	S0A	2	16	2	352 704		S0A	2	8	2	165 370
	S0A	3	16	3	321 621		S0A	4	8	2	174 174
	S0A	4	20	1	631 631		S0A	4	8	2	138 3452
VE512	S0A	5	20	1	631 631	VE512	S0A	1	10	4	229 916
	S0A	5	20	1	631 631		S0A	1	10	10	162 162
	S0A	5	20	1	720 720		S0A	3	10	4	316 1264
	S0A	5	20	1	807 807		S0A	5	5	3	85 35
	S0A	9	10	2	311 652	S0A	5	5	6	49 150	
	S0A	9	10	2	311 652	S0A	5	5	6	49 150	
	S0A	11	3	39	153 2967	VE514	S0A	6	1	5	2 175 344
	S0A	11	3	39	153 2967		S0A	6	1	5	2 175 344
	S0A	13	8	17	144 2448		S0A	6	1	5	2 169 388
	S0A	13	8	17	144 2448		S0A	4	4	12	5 2 460 920
	S0A	15	8	4	290 1900	S0A	5	10	10	2 324 1674	
	S0A	15	8	4	290 1900	S0A	6	10	10	3 575 1725	
	S0A	17	8	4	296 1160	S0A	6	10	10	3 575 1725	
	S0A	18	10	5	250 1250	S0A	7	6	3	1 970 1140	
	S0A	19	10	2	264 290	S0A	7	6	3	1 105 130	
	S0A	20	8	3	93 249	S0A	7	6	3	1 970 1140	
	S0A	21	8	3	73 219	VE515	S0A	1	10	8	335 1015
	S0A	21	8	3	73 219		S0A	1	10	10	195 3150
	S0A	23	8	3	83 249		S0A	2	10	3	491 980
	S0A	24	8	3	83 249		S0A	2	10	3	491 980
S0A	26	10	4	153 918	S0A	6	1	5	4 423 1650		
S0A	27	8	3	83 249	VE516	S0A	1	10	2	356 1015	
S0A	28	10	4	153 918		S0A	1	10	10	195 3150	
S0A	29	8	3	83 249		S0A	3	6	3	1 515 3150	
S0A	29	8	3	83 249		S0A	3	6	3	1 515 3150	
S0A	30	10	19	250 1250	VE517 (K2)	S0A	1	20	8	411 5986	
S0A	31	10	2	105 1050		S0A	2	8	4	277 1580	
S0A	31	10	2	105 1050		S0A	3	10	3	380 1380	
S0A	31	10	2	105 1050		S0A	4	8	4	160 640	
VE507 (K2)	S0A	2	8	4	258 1032	S0A	5	8	4	160 640	
	S0A	2	8	4	258 1032	S0A	5	8	4	160 640	
	S0A	3	5	20	98 1960	S0A	6	8	12	1018 1018	
	S0A	3	5	20	98 1960	S0A	6	8	12	1018 1018	
VE509	S0A	2	10	2	161 960	VE522	S0A	1	6	3	2 188 376
	S0A	3	6	3	158 316		S0A	1	6	3	2 188 376
	S0A	5	10	2	203 406		S0A	3	20	2	1020 2400
	S0A	5	10	2	203 406		S0A	3	20	2	1020 2400
	S0A	6	10	3	538 1614		S0A	5	10	2	776 1552
	S0A	6	10	3	538 1614		S0A	7	12	5	757 1521
	S0A	7	6	3	24 1560		S0A	5	10	10	2 792 1521
	S0A	7	6	3	24 1560		S0A	7	6	3	598 1196
	S0A	10	10	4	533 812		S0A	10	16	10	426 426
	S0A	10	16	4	416 832		S0A	9	6	3	369 738
	S0A	11	8	2	94 188		S0A	11	12	5	594 1089
	S0A	12	16	4	416 832		S0A	11	12	5	594 1089
VE510	S0A	13	6	3	2 88 166	S0A	14	6	3	2 88 166	
	S0A	13	6	3	2 88 166	S0A	14	6	3	2 88 166	
	S0A	14	6	3	2 88 166	S0A	14	6	3	2 88 166	
	S0A	14	6	3	2 88 166	S0A	14	6	3	2 88 166	
	S0A	15	6	3	2 88 166	S0A	15	6	3	2 88 166	
	S0A	15	6	3	2 88 166	S0A	15	6	3	2 88 166	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	
	S0A	16	12	5	75 150	S0A	16	12	5	75 150	

RESUMO ACO CA 50-60			
ACO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	310	50
50A	6,3	501	125
50A	8	360	264
50A	10	333	210
50A	12,5	93	93
50A	16	149	239
50A	20	142	354
Peso Total	60B =	50 kg	
Peso Total	50A =	1285 kg	

COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
 - VIGAS E PILARES = 2,5 cm
 - BLOCOS, BALDRAMES E CONTÊNDORES (FACE EM CONTATO COM A TERRA) = 3,0 cm
 1. ESSES COBRIMENTOS DEVERÃO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.
 COBRIMENTOS ESPECÍFICOS EM CONTRÁRIO AOS VALORES INDICADOS ACIMA, ESTÃO INDICADOS NOS DESENHOS FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:
 NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO
 NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

INDICE:
VE501 A VE518 / VE524

$$f_{ck} = 35 \text{ MPa}$$
$$EC = 28 \text{ GP}_a$$
$$A/C = 0,65$$

0	21/09/2009	EMISSÃO INICIAL	
REV	DATA	DESCRIÇÃO	
		Sinetria Engenharia SIA DOPAR - LOTE 1 - AL. DA SERRA - Nº 333 BRASÍLIA - DF - CEP: 71200-540 Fone: (61) 3111-2000 e-mail: s@sinetria.eng.br	
PROJETO ESTRUTURAL			
CLIENTE:	DISCO INDEPENDRADORA E EMBELBILHADA LTDA		
OBRA:	EDIFÍCIO RESIDENCIAL OLYMPIQUE		Nº ORÇA.: 001
ENDEREÇO:	RUA MARIA ANA DE SALES 04 LOTES G H I - GUARA/DF		
ARMACAS DAS VIGAS DO 20 AO 60 PAVIMENTOS TORRE C - JUNTA E (01/62)			NÚMERO NO 169-XXI
DESENHISTA:	DATA:	ESCALA:	UNIDADE:
105/HELENA	21/09/2009	1 : 50	cm
APROVADO POR:	AUT. EST-169-XXX-RO-PLT		Nº PROJ. SINETRIA: 421
PROF. TITULAR:		RESPONSÁVEL TÉCNICO	
RESPONSÁVEL TÉCNICO PELO PROJETO ESTRUTURAL			
SINETRIA ENGENHARIA E PROJETOS S/C LTDA CREA-10384			

