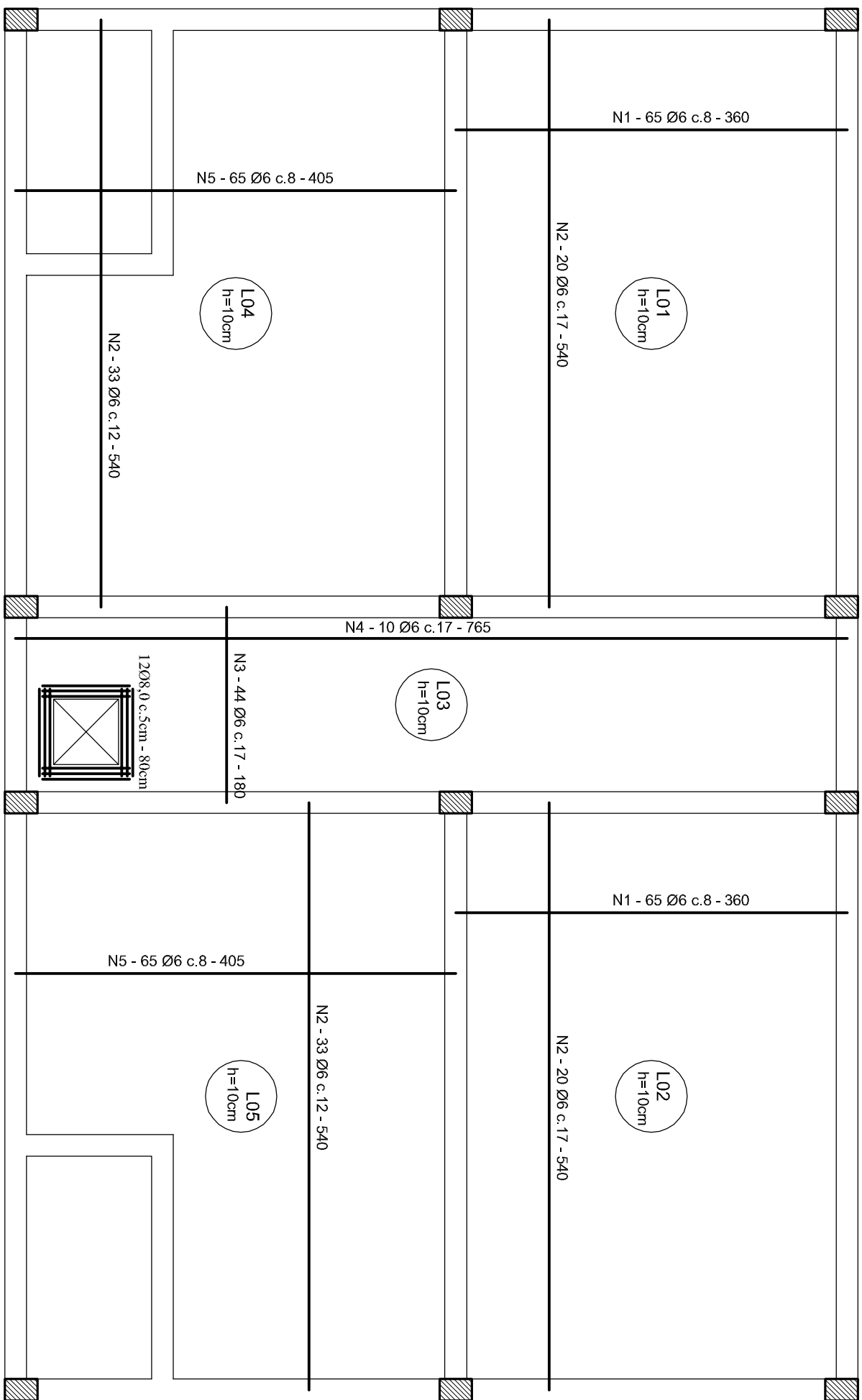


Planta de Formas e Localização
esc -1:50



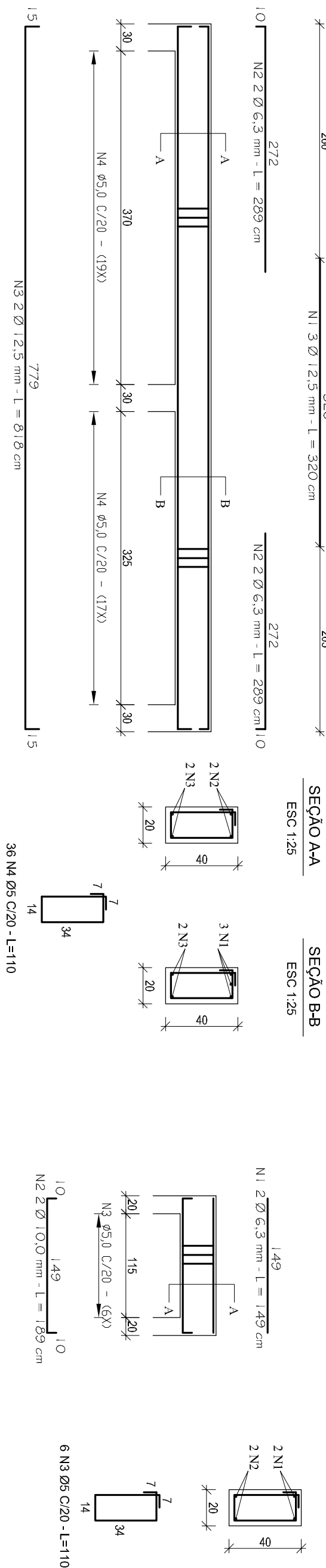
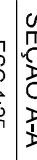
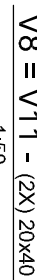
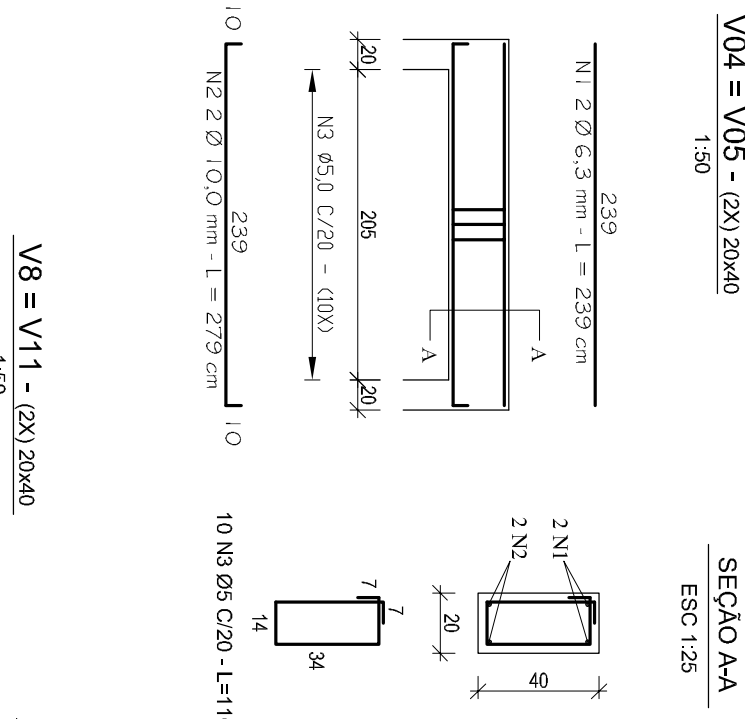
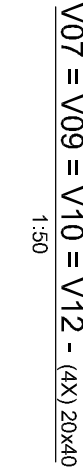
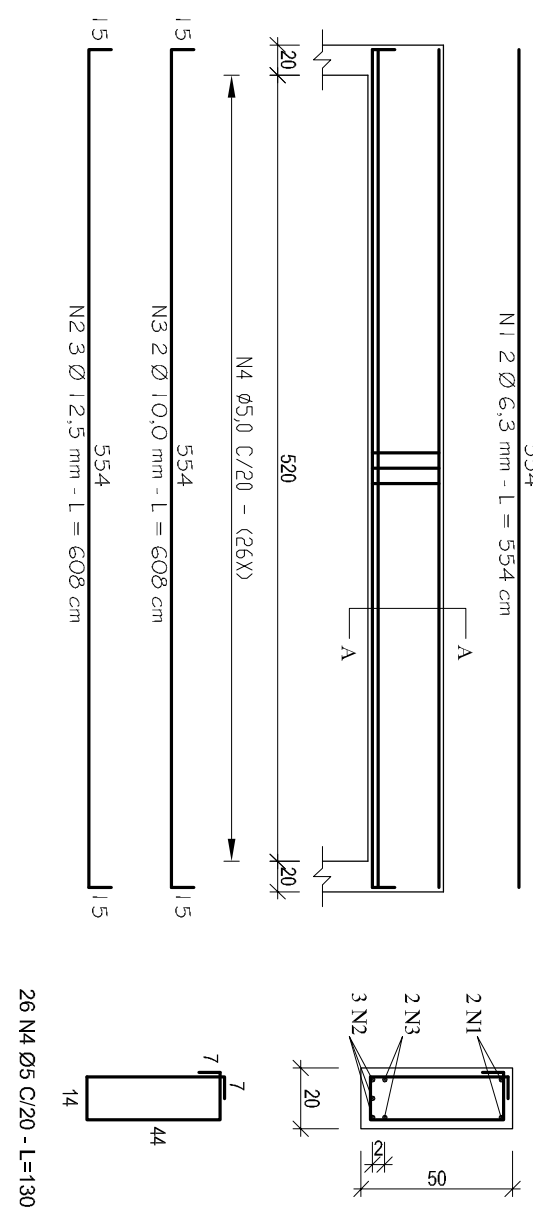
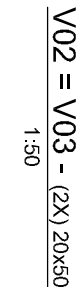
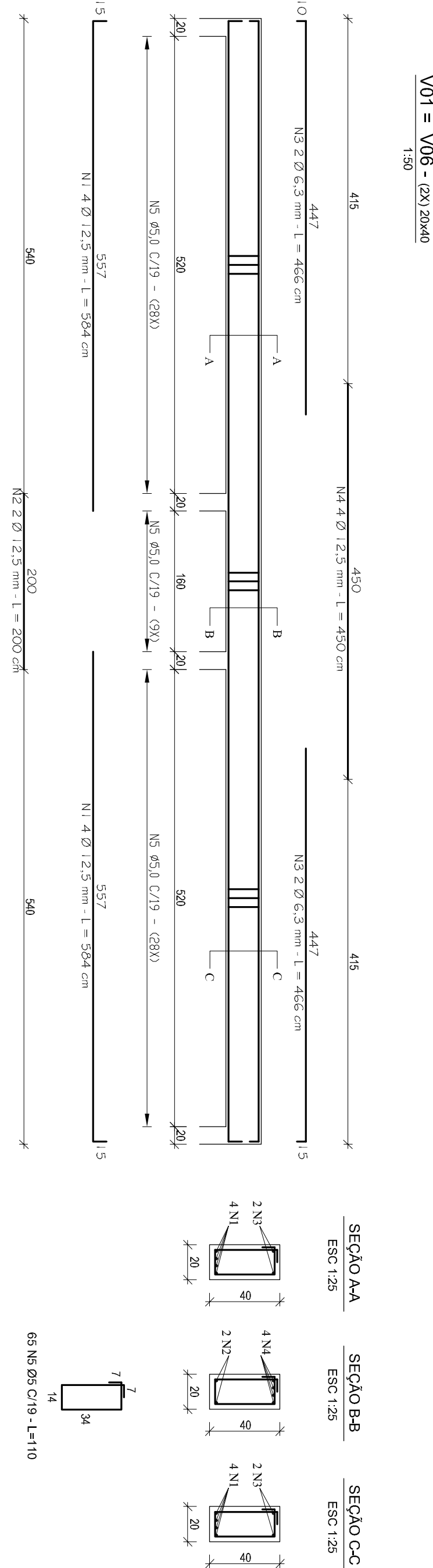
Planta de Armação
esc - 1:50

Quatro Dealtamentos de Ferros				
Aço	N	ϕ	L (cm)	Quantidade Total (m)
CA60	N1	6,0	360	46800
CA60	N2	6,0	540	57240
CA60	N3	6,0	810	44 7920
CA60	N4	6,0	785	10 7650
CA60	N5	6,0	405	130 52650

Quatro Resumo			
Aço	Bitola (mm)	compimento (m)	Peso (kg) Peso +10%
CA60	6,0	172260	382,42 420,66

Fck =	25	Mpa
Fator a/c =	0,5	
Cobrimento =	2	cm
Volume Concreto =	10,55	m³
Área de Formas =	100,48	m²

Quadro Resumo			
Aço	Bitola (mm)	comprimento (cm)	Peso (Kg)
CA60	6,0	172260	382,42
			420,66



Quilombo Distribuição de Freqüências					
Apo	Paredão	Barras	Quantidade	Complemento (cm)	
				Uniterio	Total
Vgs 01 = Vgs 05					
CA50	N1	12,5	8	557	445,6
CA50	N2	12,5	2	200	400
CA50	N3	6,3	4	466	186,4
CA50	N4	12,5	4	450	180

	Quatro Resumos			
	Bitola (mm)	Comp. (mm)	Peso (kg)	Peso (10%)
CA50	6,3	112,50	2,959	32,66
CA50	10,0	49,04	2,556	29,21
CA50	11,5	395,40	3,51,84	388,13
CA60	5,0	404,00	6,325	68,47
Peso Total CA50		450,00		
Peso Total CA60		68,47		

Aço	Perf.ão	Eixo	Quantidade	Comprimento	
				Unitário	Total
Viga 02 = Viga 03					

CASO	N3	100	2	608	1216
CASO	N4	50	26	130	3380

Case	Number of cases		Number of cases	Number of cases
	Number of cases	Number of cases		
CA50	N2	100	2	279
CA80	N3	5.0	10	110

V23.07 = V23.09 = V23.10 = V23.12						
Aço	(4x)				Unidade	Total
	CA50	N1	12,5	3	360	
	CA50	N2	6,8	4	289	1156
	CA50	N3	12,5	2	779	1558
	CA60	N4	5,0	35	110	3960
Perda		Bras	Quantidade	Compensação (cm)		
				Unidade	Total	

Category	1990	1991	1992	1993
CA50	10.0	2	189	378
CA60	5.0	6	110	660

F _{dk} =	25	Mpa
Fator a/c =	0,5	
Cobrimento =	2,5	cm
Volume Concreto =	4,84	m³
Área de Formas =	71,04	m²