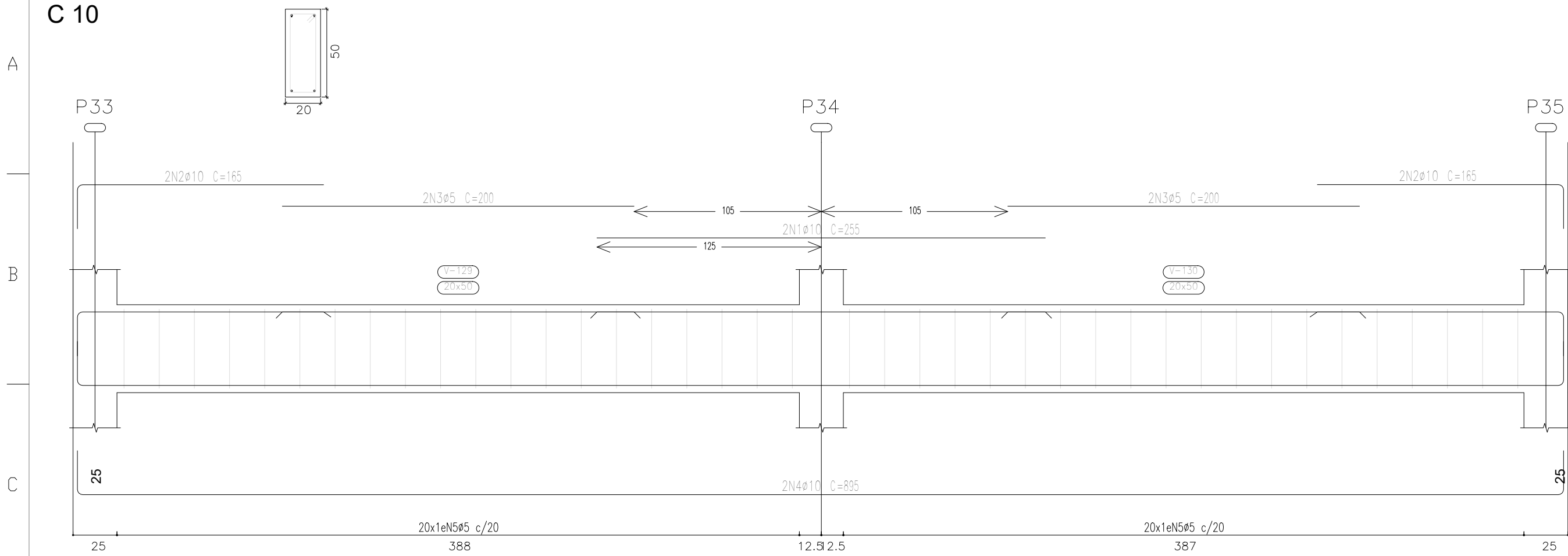
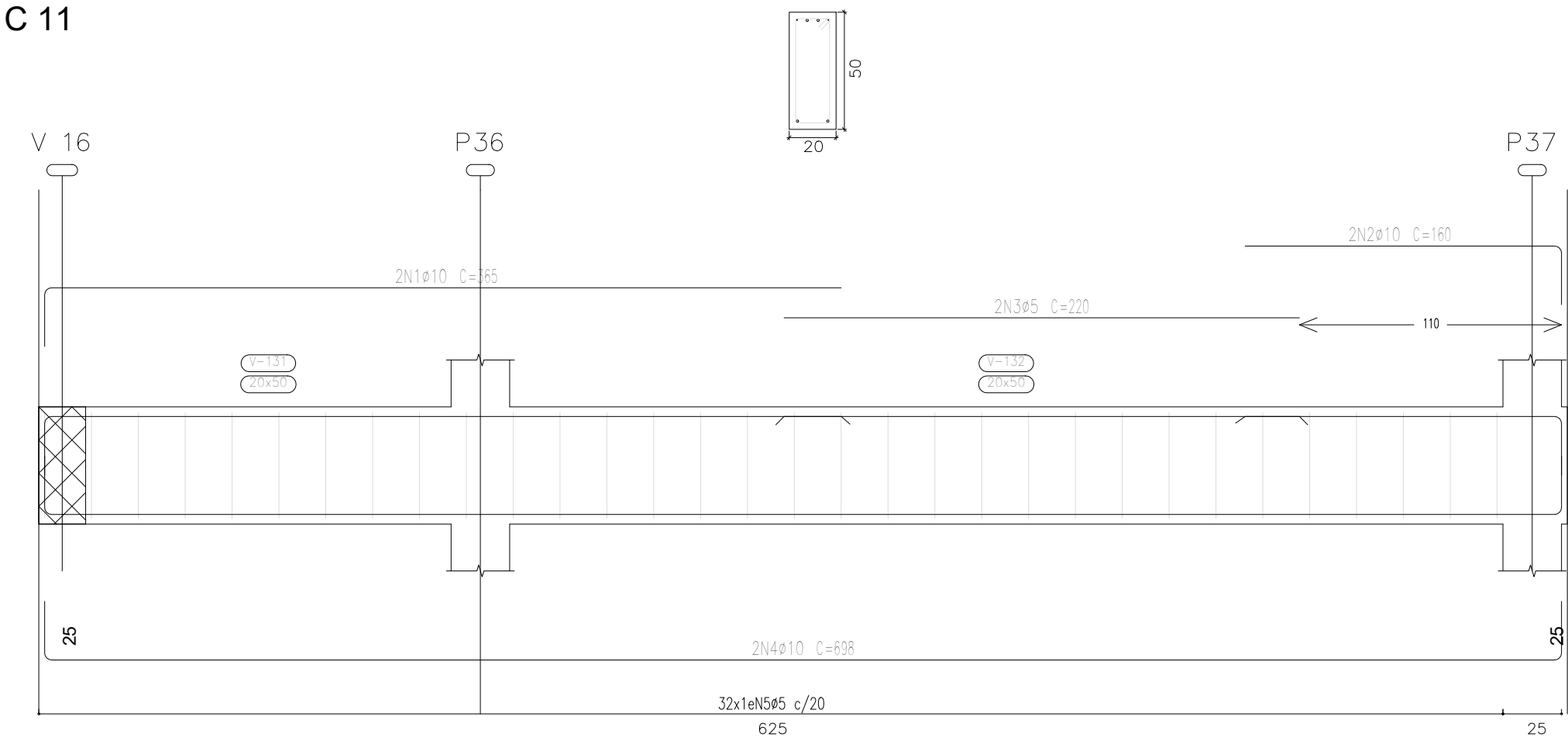


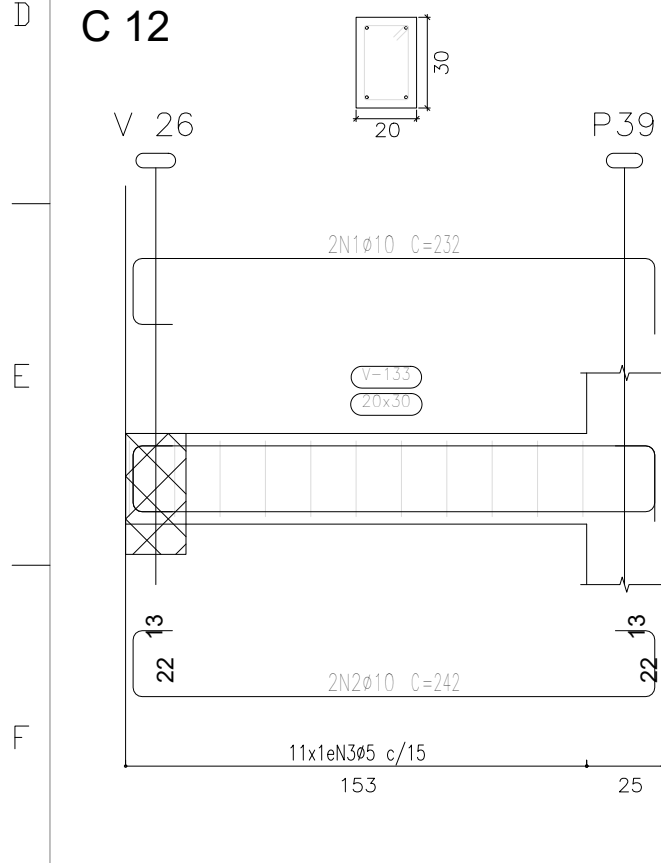
C 10



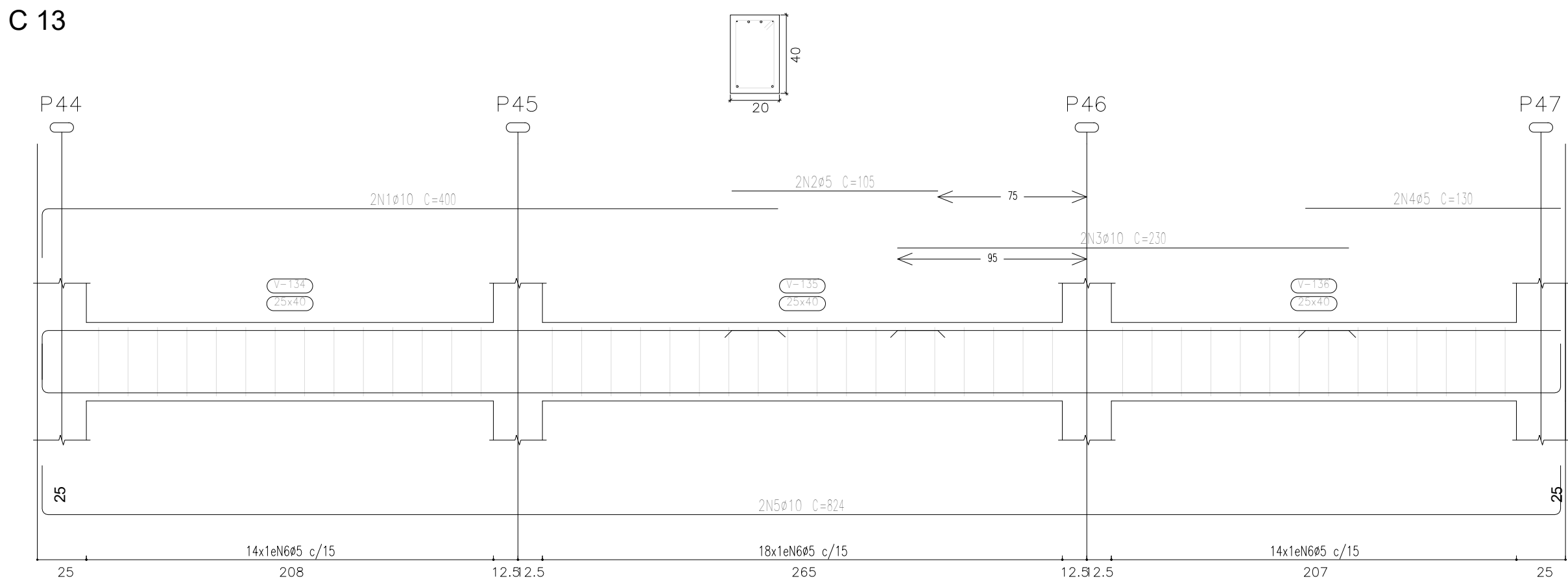
C 11



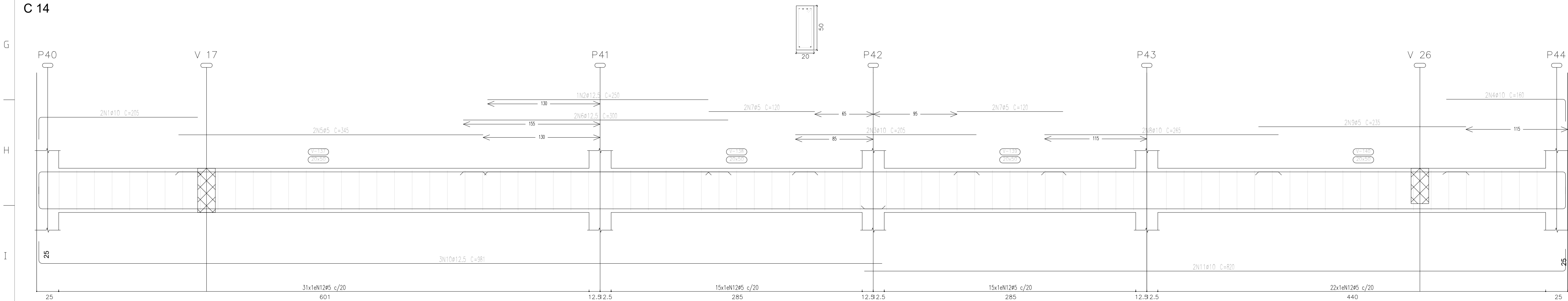
C 12



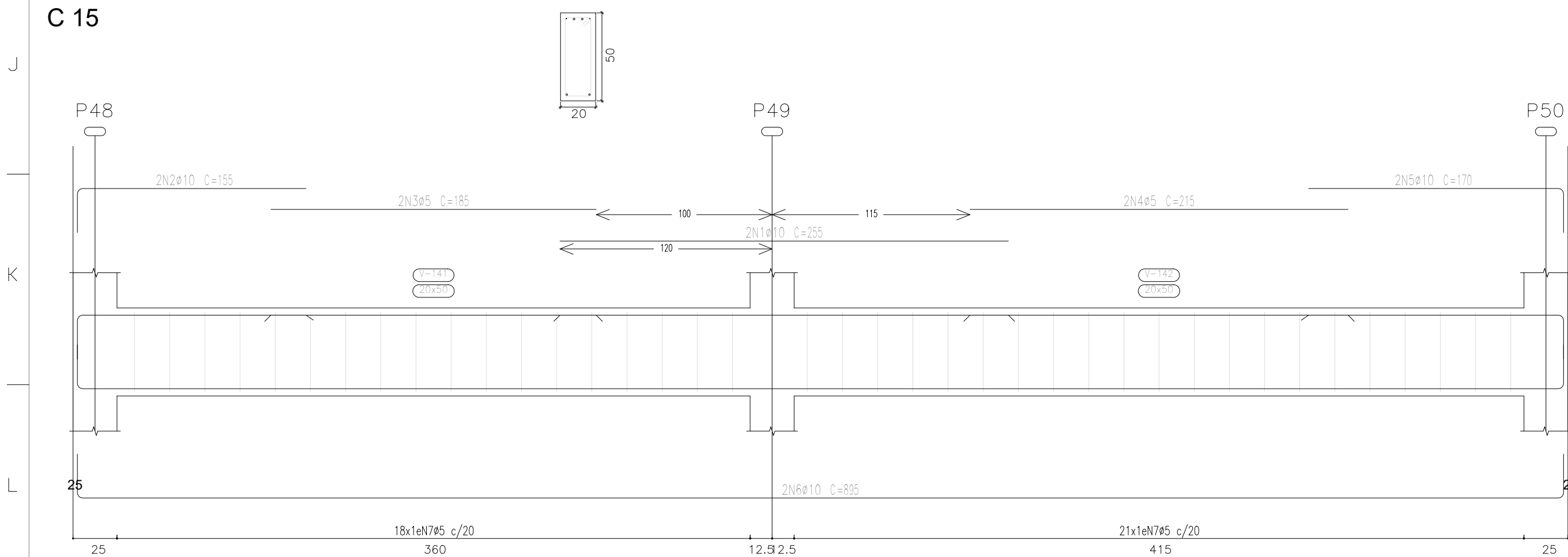
C 13



C 14



C 15



Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA=50 (kg)	CA=60 (kg)
V 15	1	ø10	2	255	510	3.1	
	2	ø10	2	155	310	1.9	
	3	ø5	2	185	370		0.8
	4	ø5	2	215	430		0.7
	5	ø10	2	175	340	2.1	
	6	ø10	2	895	1790	11.0	
	7	ø5	39	128	4992		7.8
				Total=1092	19.9	10.0	
				ø5:	0.0	10.0	
				ø10:	19.9	0.0	
				Total:	19.9	10.0	

Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA=50 (kg)	CA=60 (kg)
V 10	1	ø10	2	255	510	3.1	
	2	ø10	4	165	660	4.1	
	3	ø5	4	200	800		1.3
	4	ø10	2	895	1790	11.0	
	5	ø5	40	128	5120		8.0
				Total=1092	20.0	10.2	
V 11	1	ø10	2	365	730	4.5	
	2	ø10	2	160	320	2.0	
	3	ø5	2	220	440		0.7
	4	ø10	2	698	1396	8.6	
	5	ø5	32	128	4096		6.4
				Total=1092	19.8	7.8	
V 12	1	ø10	2	232	464	2.9	
	2	ø10	2	242	484	3.0	
	3	ø5	11	88	968		1.5
				Total=1092	6.5	1.7	
V 13	1	ø10	2	400	800	4.9	
	2	ø5	2	105	210		0.3
	3	ø10	2	230	460	2.8	
	4	ø5	2	130	260		0.4
	5	ø10	2	824	1648	10.2	
	6	ø5	46	118	5428		8.5
				Total=1092	19.7	10.1	
V 14	1	ø10	2	205	410	2.5	
	2	ø12.5	1	250	250	2.4	
	3	ø10	2	205	410	2.5	
	4	ø10	2	160	320	2.0	
	5	ø5	2	345	690		1.1
	6	ø12.5	2	300	600	5.8	
	7	ø5	4	120	480		0.8
	8	ø10	2	265	530	3.3	
	9	ø5	2	235	470		0.7
	10	ø12.5	3	981	2943	28.3	
	11	ø10	2	820	1640	10.1	
	12	ø5	83	128	10624		16.7
				Total=1092	82.8	21.2	
				ø5:	0.0	21.2	
				ø10:	22.4	0.0	
				ø12.5:	40.2	0.0	
				Total:	62.6	21.2	



OBRA: CONSTRUÇÃO DE ESCOLA MUNICIPAL

LOCAL: R. AMÉLIO JOSÉ FERREIRA, DISTRITO SERRA DA CANASTRA, MUNICÍPIO SÃO ROQUE DE MINAS

PROJETO ESTRUTURAL

PROPRIETÁRIO: PREFEITURA M. DE SÃO ROQUE DE MINAS/MG-CNPJ: 18.306.670/0001-04

ASSUNTO: DETALHE VIGAS BALDRAME

RESPONSÁVEL: BRUNO CÉSAR DA SILVA CORREIA-CREA 168.800/D-MG

DESENHO: DATA: FEV/2026

PROJETO: ESCALA: 1 / 25

FOLHA: 03/12