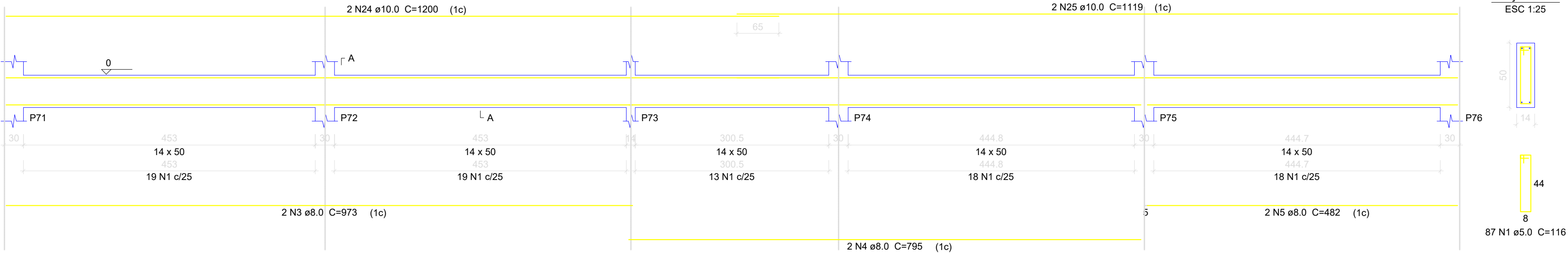


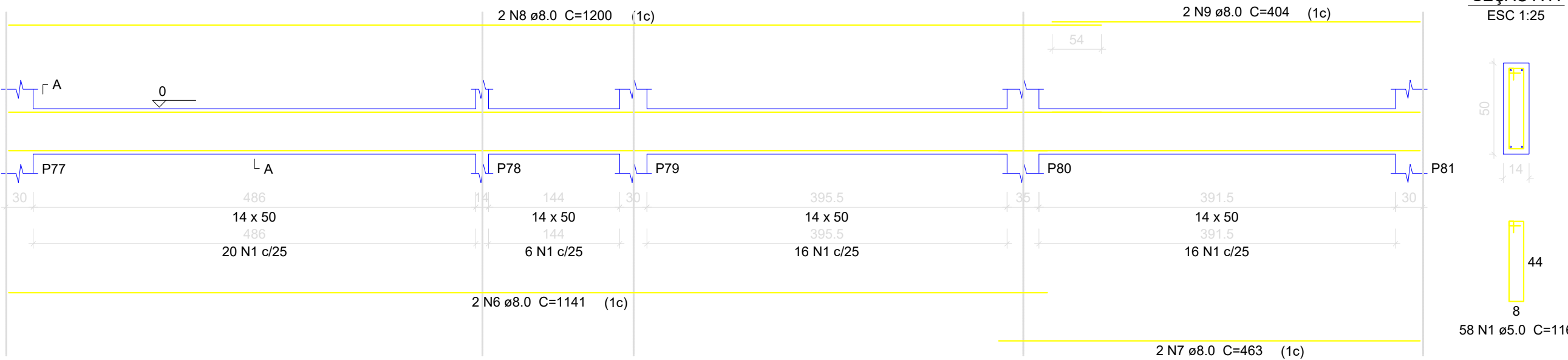
VB118

ESC 1:50



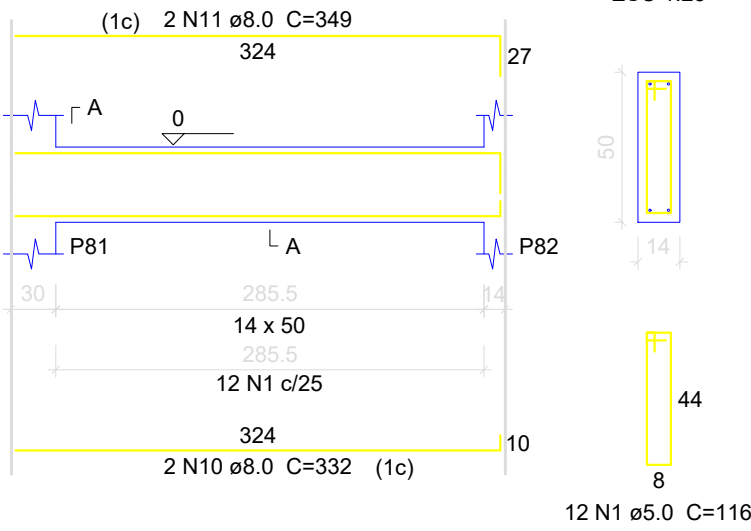
VB119

ESC 1:50



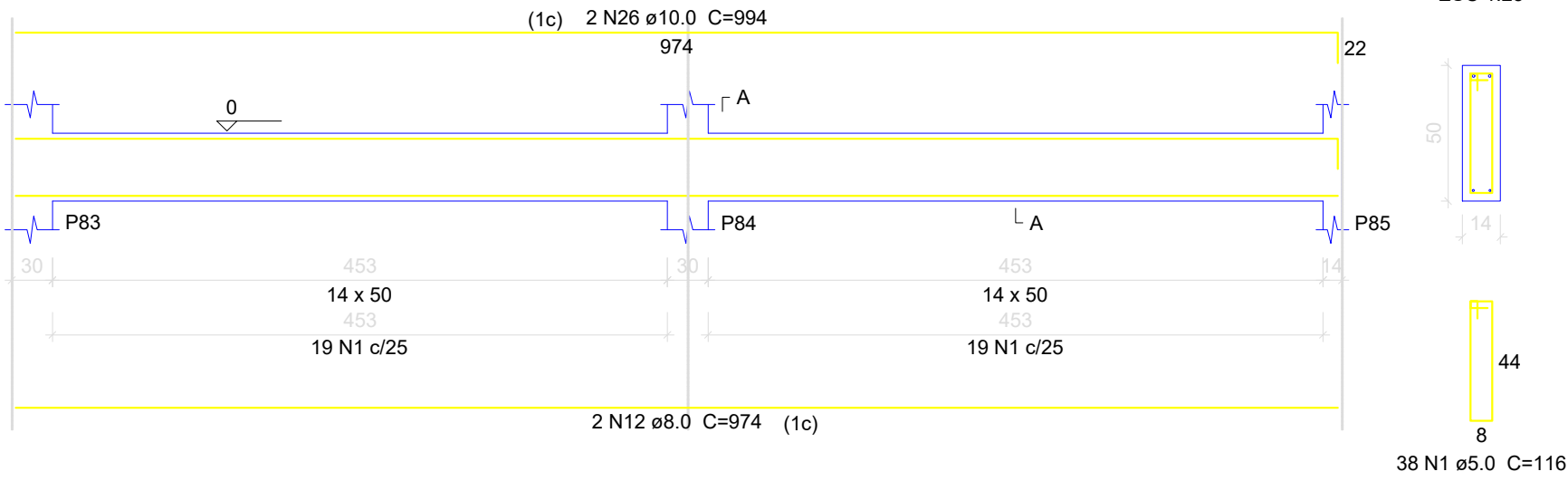
VB120

ESC 1:50



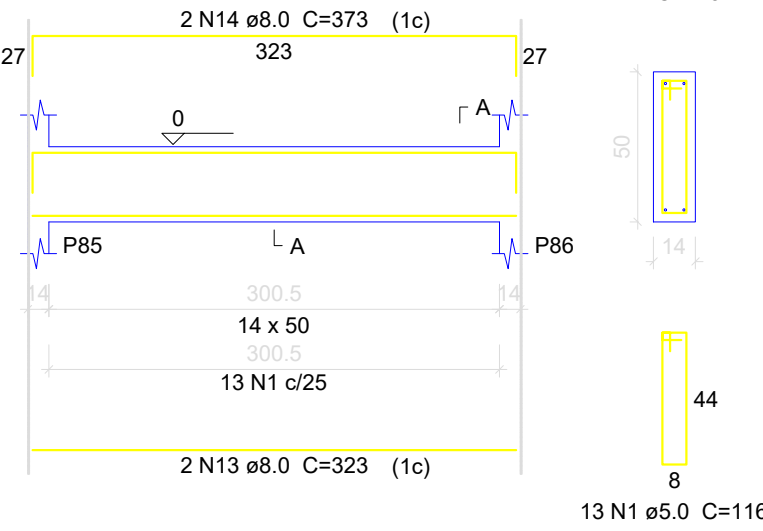
VB121

ESC 1:50



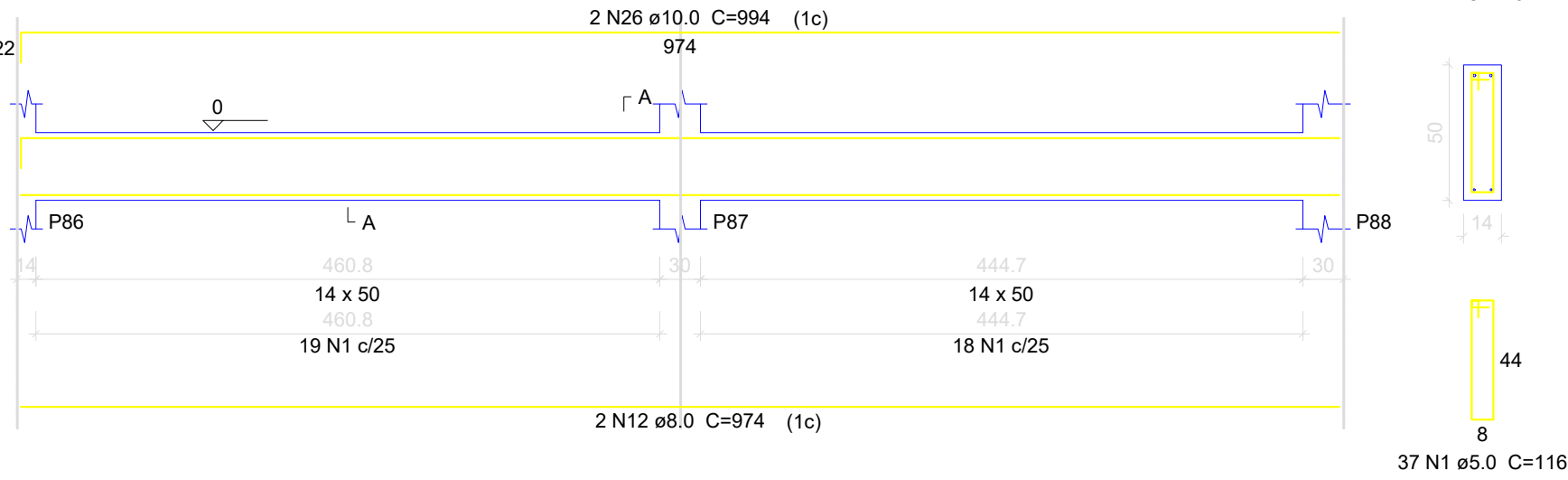
VB122

ESC 1:50



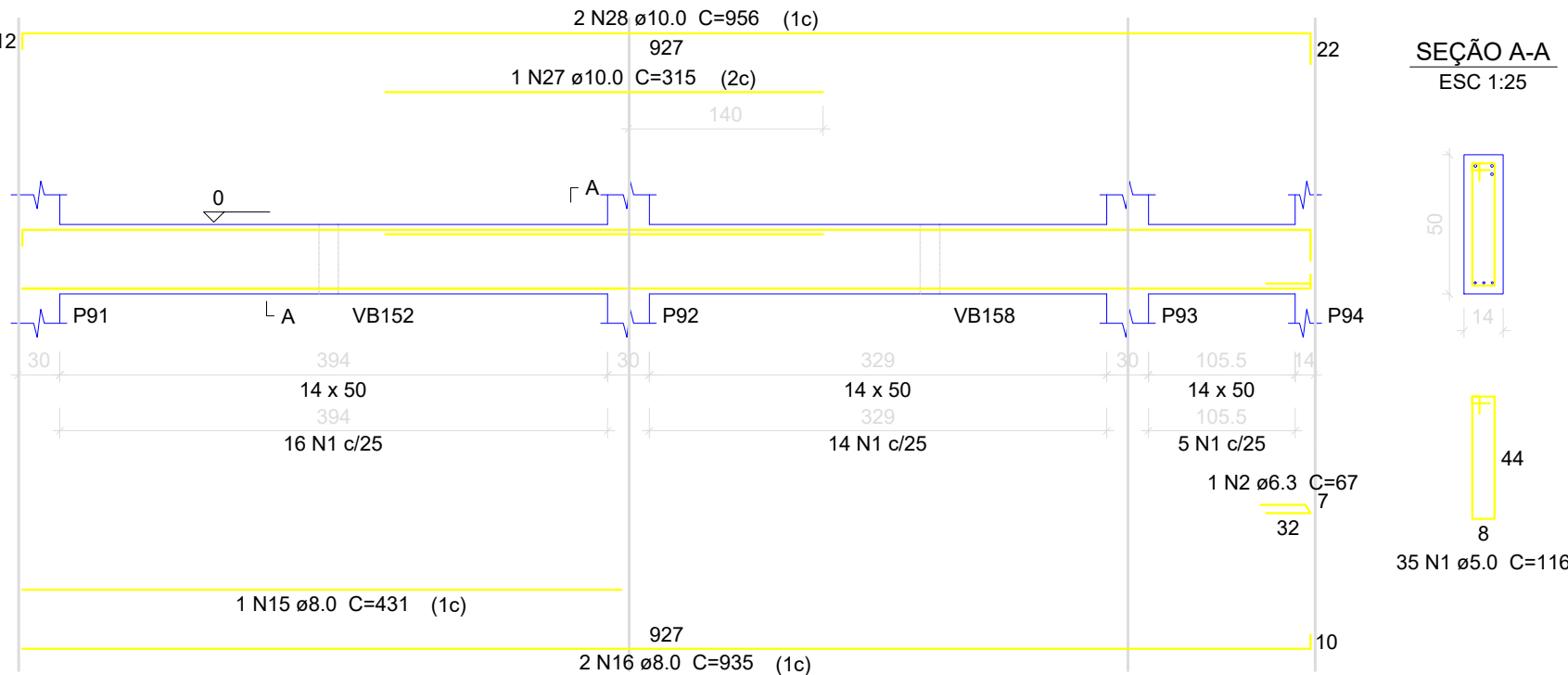
VB123

ESC 1:50



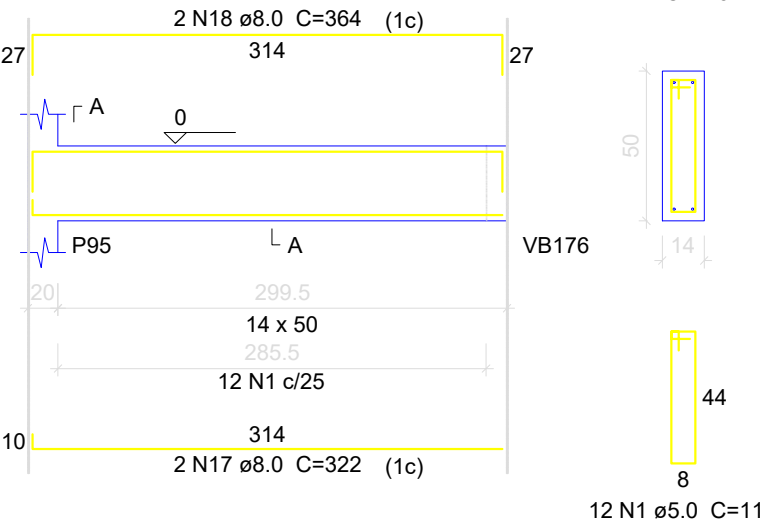
VB124

ESC 1:50



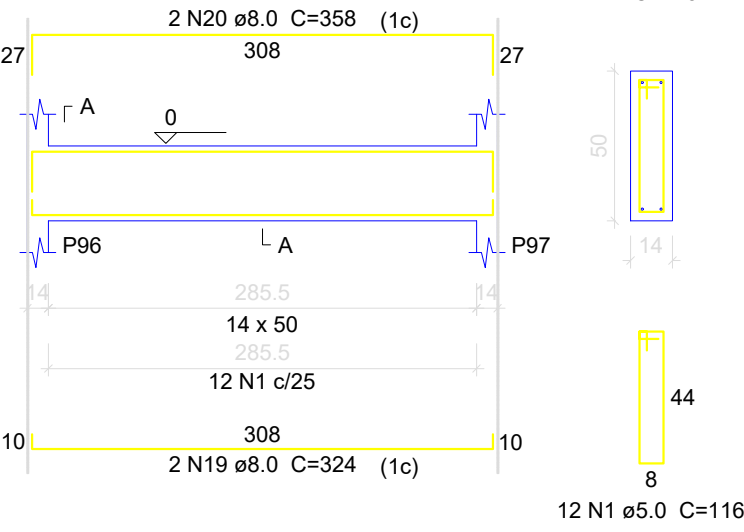
VB125

ESC 1:50



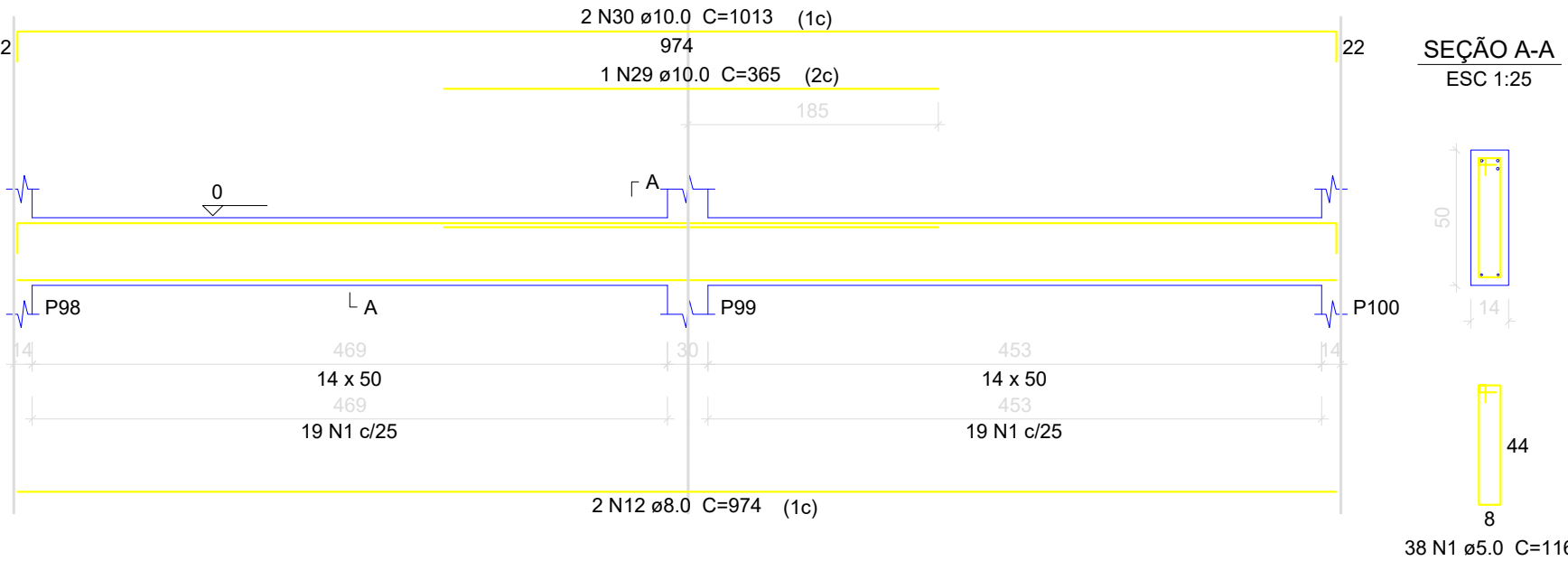
VB126

ESC 1:50



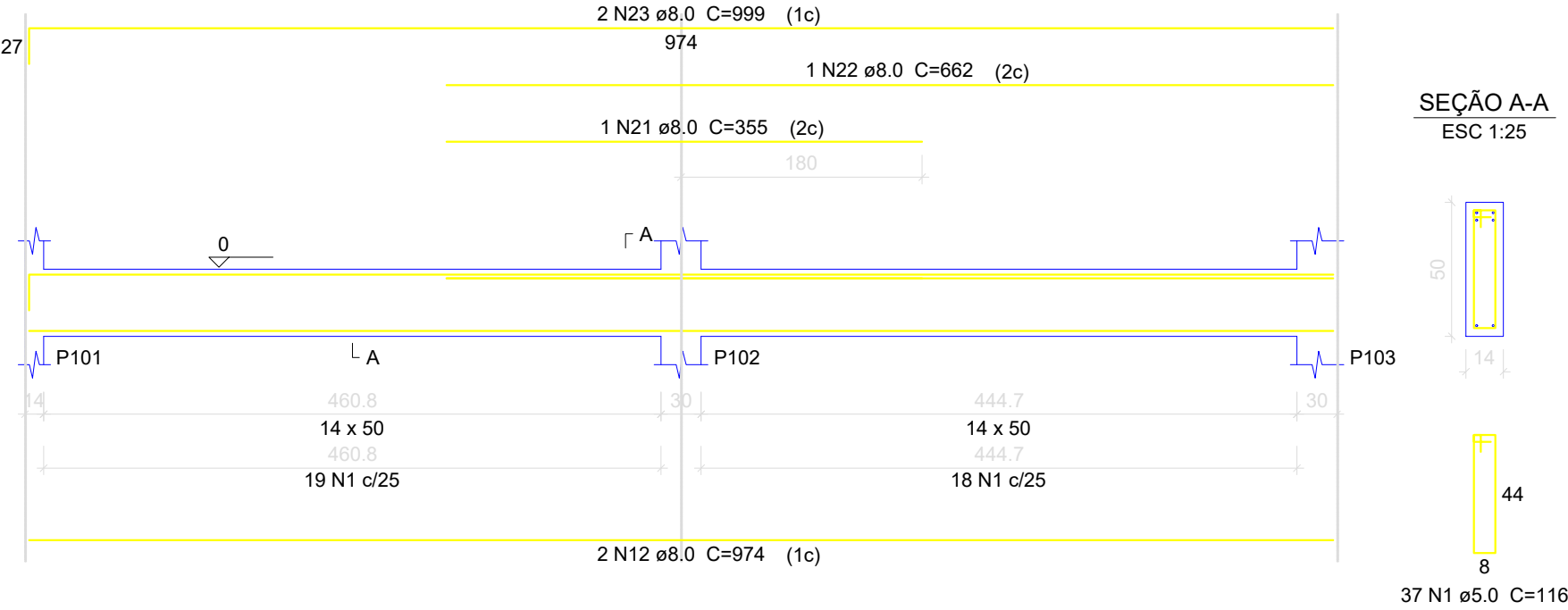
VB127

ESC 1:50



VB128

ESC 1:50




Relação do aço

AÇO	N	DIAM	Q	UNIT	C.TOTAL
VB118	1	5.0	379	(cm)	116
VB121	2	6.3	1	67	43964
VB124	3	8.0	2	973	1946
VB127	4	8.0	2	795	1590
	5	8.0	2	482	964
	6	8.0	2	1141	2262
	7	8.0	2	463	926
	8	8.0	2	1200	2400
	9	8.0	2	404	808
	10	8.0	2	332	664
	11	8.0	2	349	698
	12	8.0	8	974	7792
	13	8.0	2	323	646
	14	8.0	2	373	746
	15	8.0	1	431	431
	16	8.0	2	935	1870
	17	8.0	2	322	644
	18	8.0	2	364	728
	19	8.0	2	324	648
	20	8.0	2	358	716
	21	8.0	1	355	355
	22	8.0	1	662	662
	23	8.0	2	999	1998
	24	10.0	2	1200	2400
	25	10.0	2	1119	2238
	26	10.0	4	994	3976
	27	10.0	1	315	315
	28	10.0	2	956	1912
	29	10.0	1	365	365
	30	10.0	2	1013	2026

Resumo do aço

AÇO	DIAM	C.TOTAL	PESO + 10 %
CA50	6.3	0.7	0.2
	8.0	295.2	128.1
	10.0	132.4	89.7
CA60	5.0	439.7	74.5
PESO TOTAL			
CA50		218	
CA60		74.5	

Vol. de concreto total (C-30) = 6.97 m³
Área de forma total = 113.53 m²



ARQUITETURA E ENGENHARIA
> PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E PÚBLICAS
> ASSESSORIA / CONSULTORIA
> GESTÃO DE OBRAS
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Eng. Civil - CREA 13.4548-3

CLIENTE:
Prefeitura Municipal de Rio Rufino

OBRA:
PROJETO ESTRUTURAL
ESCOLA MUNICIPAL DE RIO RUFINO

PLANTA DAS VIGAS DE BALDRAMES - TÉRREO

DESENHO:

ESCALA:

DATA:
OUT/2022