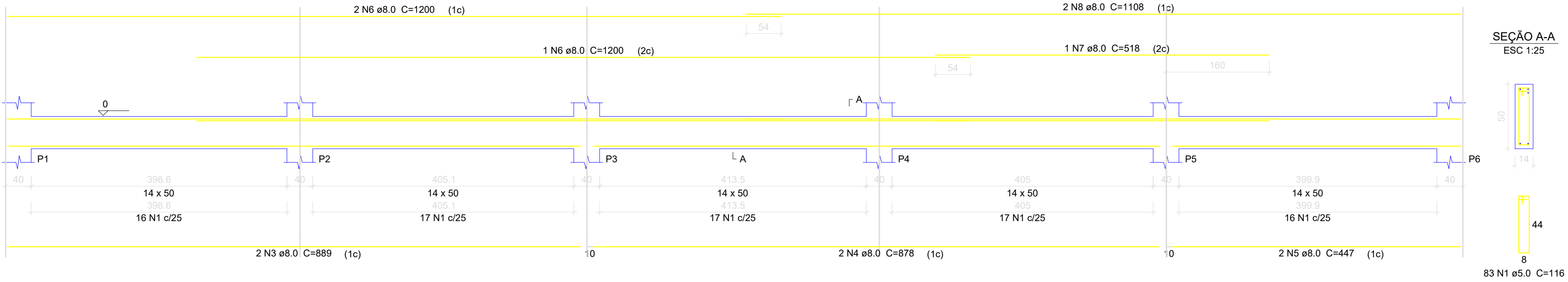


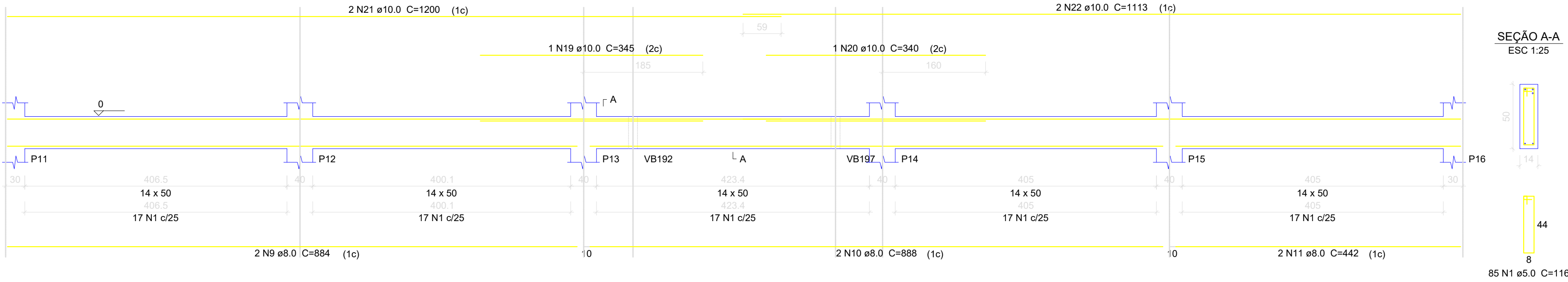
VB100

ESC 1:50



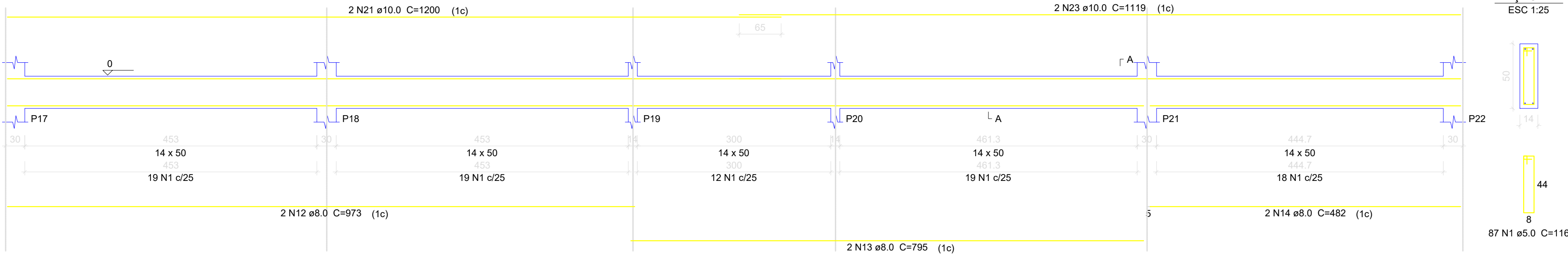
VB101

ESC 1:50



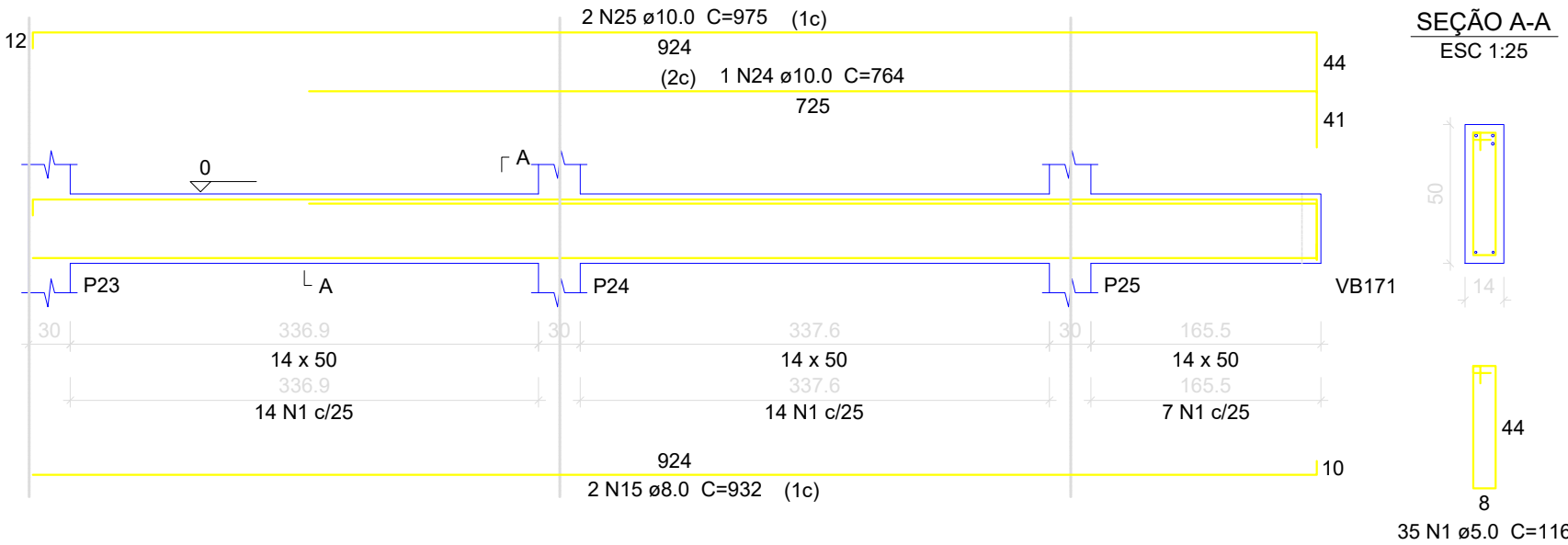
VB102

ESC 1:50



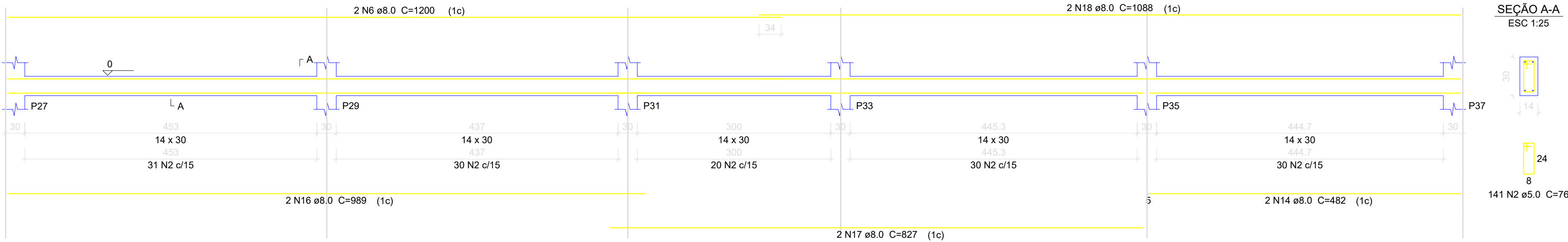
VB103

ESC 1:50



VB104

ESC 1:50



Relação do aço

VB100 VB103		VB101 VB104		VB102	
AÇO	N	DIAM	Q	UNIT (cm)	C-TOTAL (cm)
CA60	1	5.0	290	116	33640
	2	5.0	141	76	10716
CA50	3	8.0	2	889	1778
	4	8.0	2	878	1756
	5	8.0	2	447	894
	6	8.0	5	1200	6000
	7	8.0	1	518	518
	8	8.0	2	1108	2216
	9	8.0	2	884	1768
	10	8.0	2	888	1776
	11	8.0	2	442	884
	12	8.0	2	973	1946
	13	8.0	2	795	1590
	14	8.0	4	482	1928
	15	8.0	2	932	1864
	16	8.0	2	989	1978
	17	8.0	2	827	1654
	18	8.0	2	1088	2176
	19	10.0	1	345	345
	20	10.0	1	340	340
	21	10.0	4	1200	4800
	22	10.0	2	1113	2226
	23	10.0	2	1119	2238
	24	10.0	1	764	764
	25	10.0	2	975	1950

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	307.3	133.4
	10.0	126.7	85.9
CA60	5.0	443.6	75.2
PESO TOTAL			
CA50	219.2		
CA60	75.2		

Vol. de concreto total (C-30) = 6.35 m³
Área de forma total = 104.62 m²



ARQUITETURA E ENGENHARIA

> PROJETOS INDUSTRIAIS / COMERCIAIS / RESIDENCIAIS E PÚBLICAS
> ASSESSORIA / CONSULTORIA
> GESTÃO DE OBRAS
> PERÍCIAS
> EXECUÇÃO DE OBRAS

AV. BRASIL, 1225 - SALA 03
UNIVERSITÁRIO
CSP 04609-017 - LACERDOTE
TEL: (49) 99923 2944
CNPJ 23.270.410/0001-49

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RESP. TÉCN.:

James André Clauberg
Eng. Civil - CREA 45.160-6

RESP. TÉCN.:

Indiamara de Oliveira Ribeiro
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