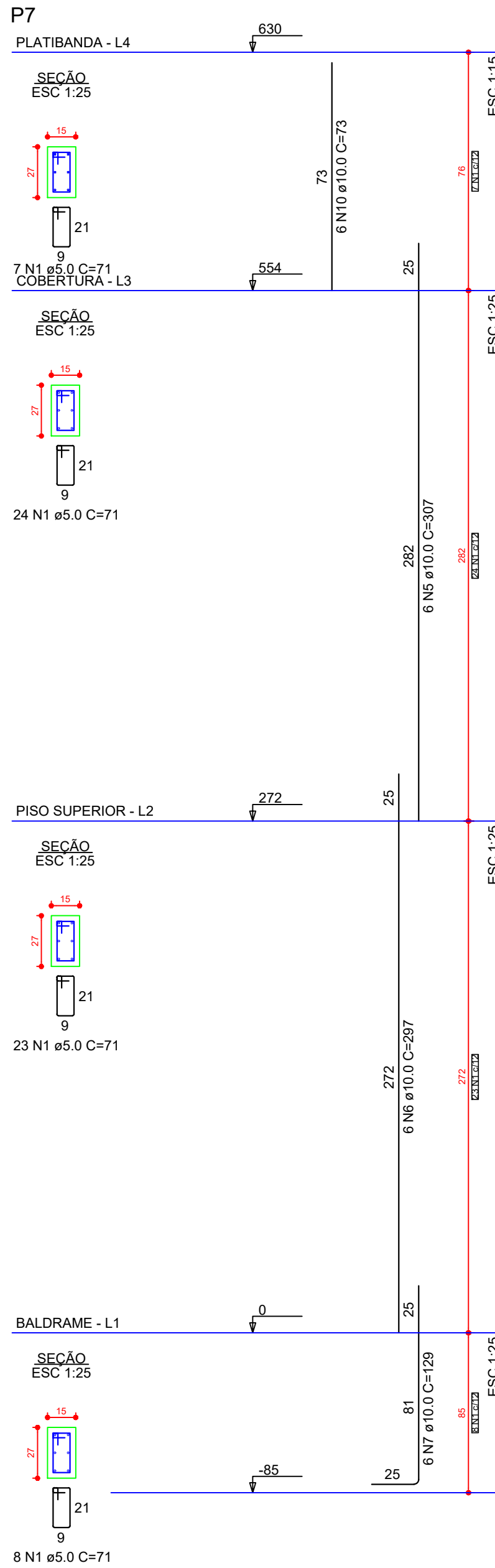
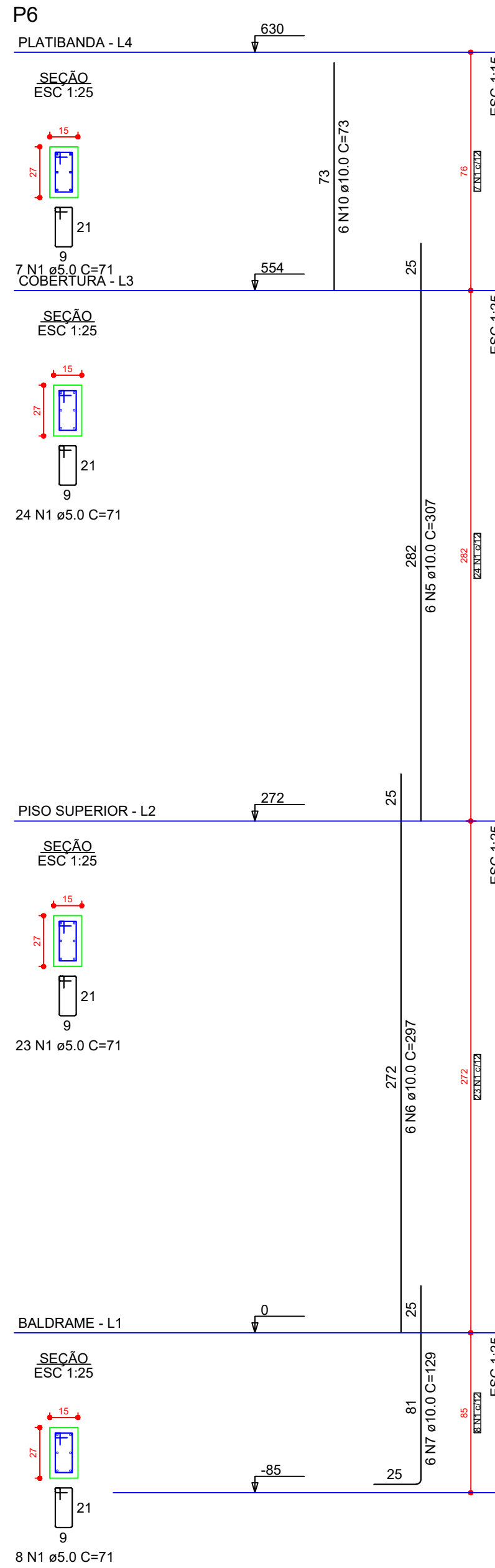
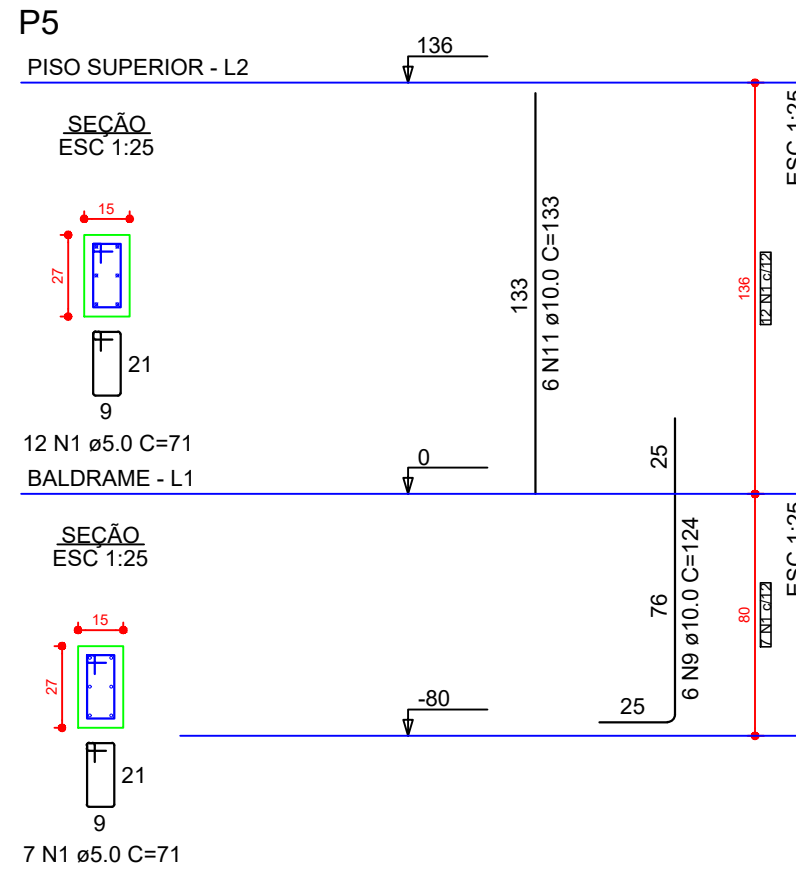
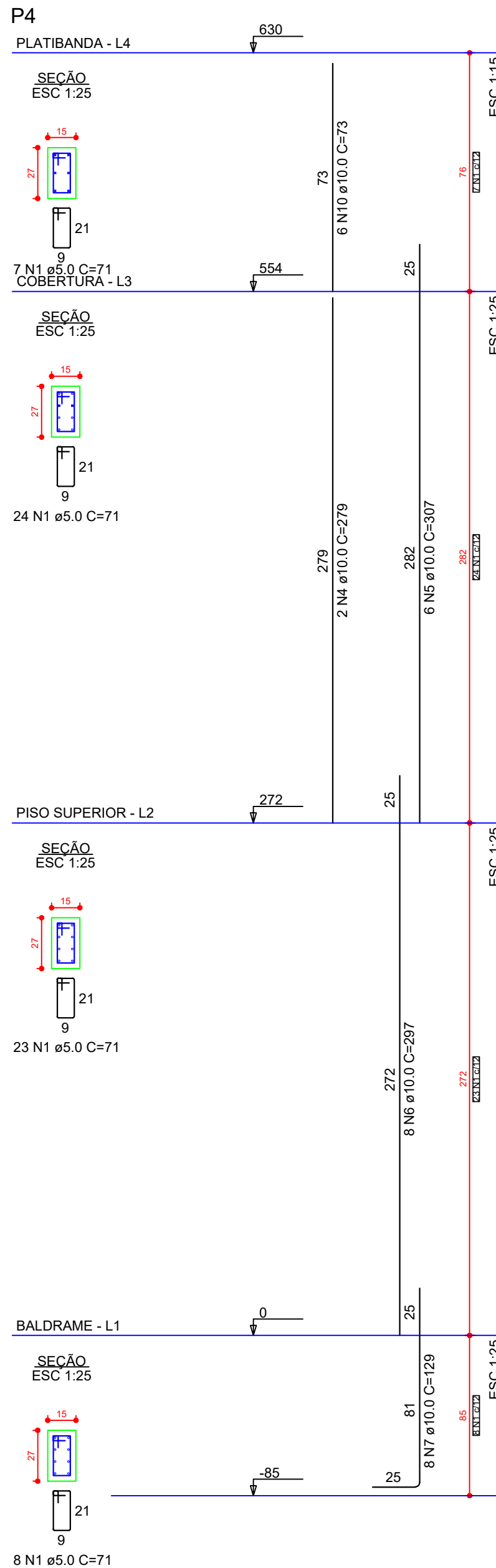
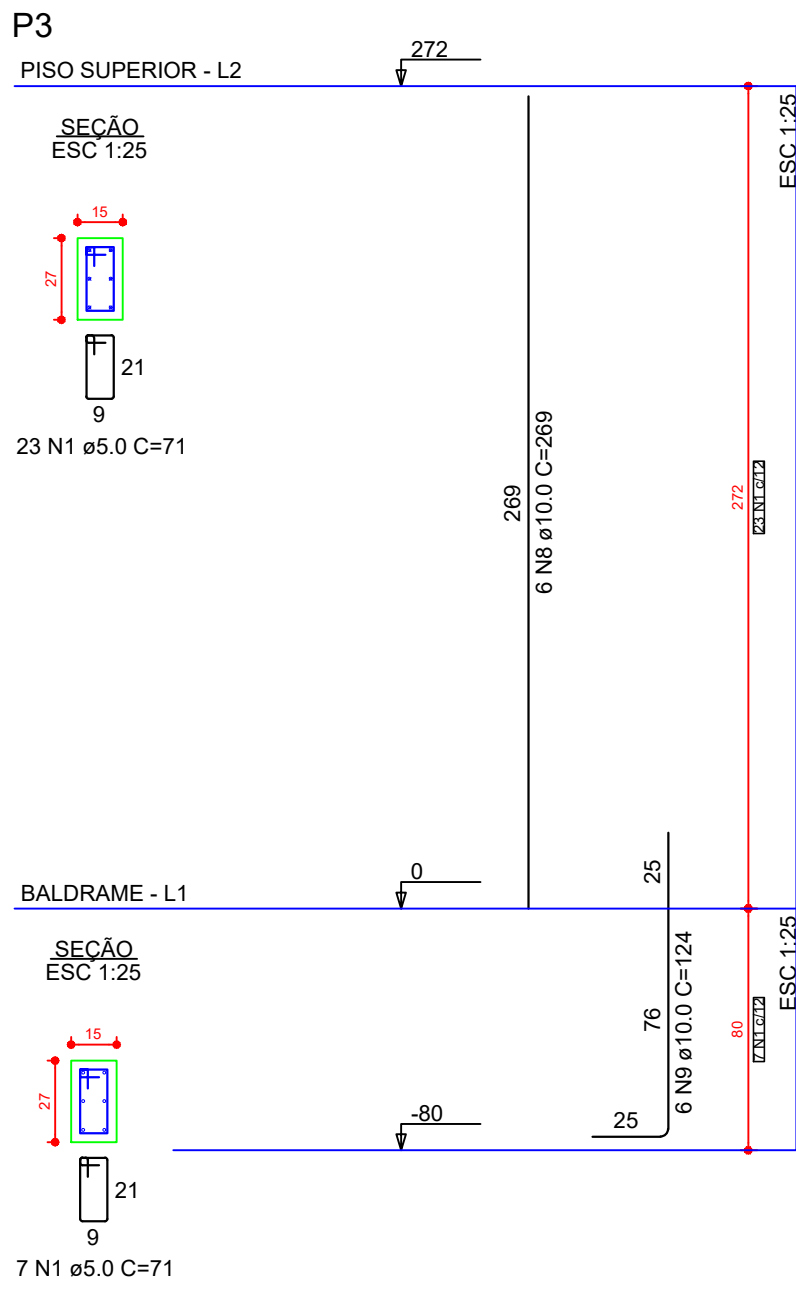
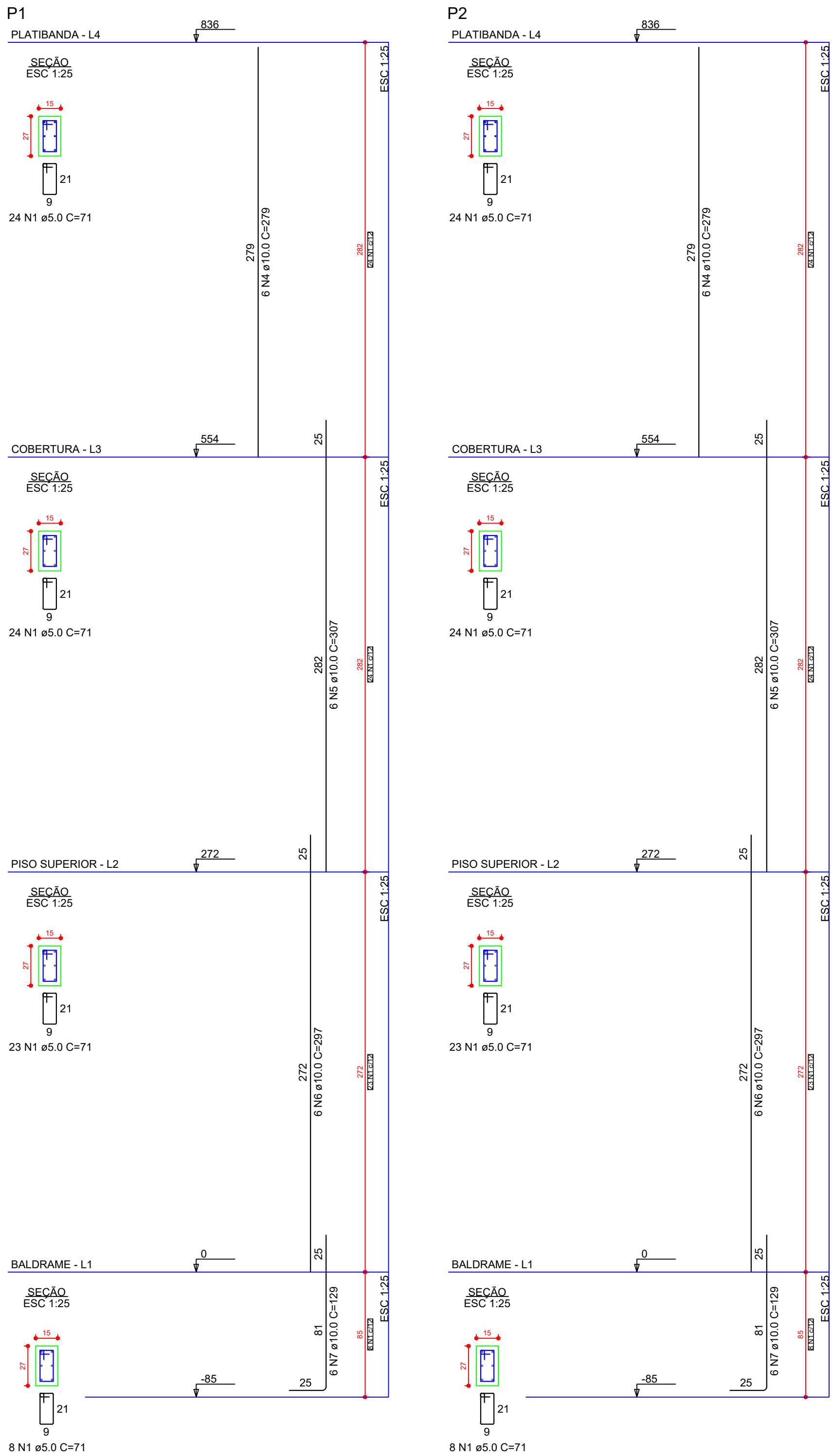


DETALHES DOS PILARES

ESCALA1:20 E 1:25



RELAÇÃO DO AÇO

P1-L4	P1-L3	P1-L2
P1-L1	P2-L4	P2-L3
P2-L2	P2-L1	P3-L4
P3-L1	P4-L4	P4-L3
P4-L2	P4-L1	P5-L2
P5-L1	P6-L4	P6-L3
P6-L2	P6-L1	P7-L4
P7-L3	P7-L2	P7-L1
P8-L3	P8-L2	P8-L1
P9-L2	P9-L1	P10-L2
P10-L1	P11-L2	P11-L1
P12-L2	P12-L1	P13-L4
P13-L3	P13-L2	P13-L1
P14-L4	P14-L3	P14-L2
P14-L1	P15-L4	P15-L3
P15-L2	P15-L1	P16-L4
P16-L3	P16-L2	P16-L1
P17-L4	P17-L3	P17-L2
P17-L1	P18-L2	P18-L1
P19-L2	P19-L1	P20-L2
P20-L1	P21-L2	P21-L1
P22-L2	P22-L1	

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	869.1	589.4
CA60	5.0	855	145
PESO TOTAL (kg)			
CA50	589.4		
CA60	145		
Volume de concreto (C-25) = 5.07 m³			
Área de forma = 102.13 m²			

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	857	71	60847
	2	5.0	247	24	5928
	3	5.0	193	97	18721
	4	10.0	42	279	11718
	5	10.0	66	307	17192
	6	10.0	72	297	21384
	7	10.0	38	129	4902
	8	10.0	54	269	14526
	9	10.0	74	124	9176
	10	10.0	36	73	2628
	11	10.0	12	133	1596
	12	10.0	6	50	300
	13	10.0	26	134	3484

PROJETO

PROJETO ESTRUTURAL - CABINES			
obra			
CABINES DE NARRAÇÃO, ARQUIBANCADA E BANCO DE RESERVA			
proprietário			prancha:
PREFEITURA MUNICIPAL DE RIO AZUL			14/16
projeto e responsável técnico			PILARES
JÉSSICA ELAINE CUSTÓDIO			
ENGENHEIRA CIVIL - CREA/PR-166.456/0			
data: Maio/2008	escala: indicada	DESENHO: GP	art: mmao