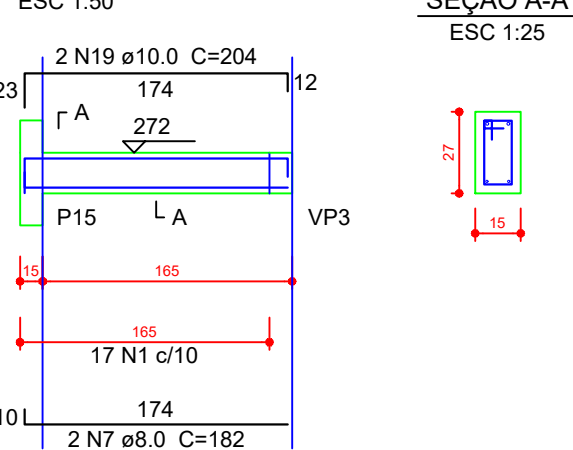
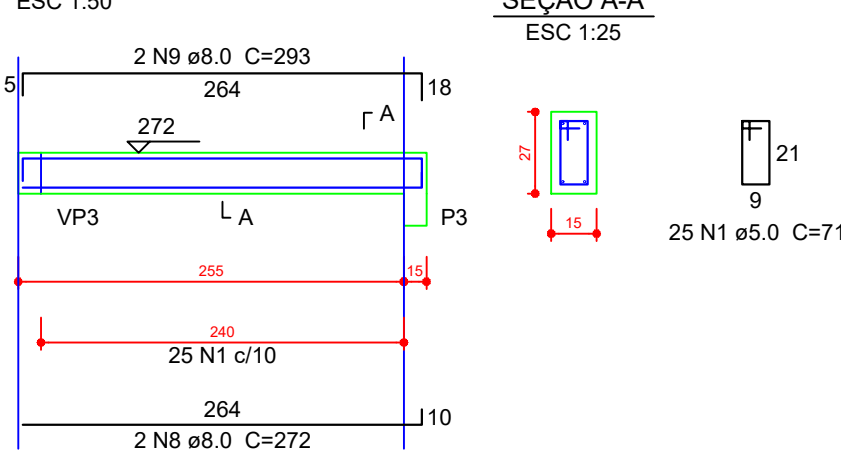


VIGAS DO PISO SUPERIOR
ESCALA1:50 E 1:25

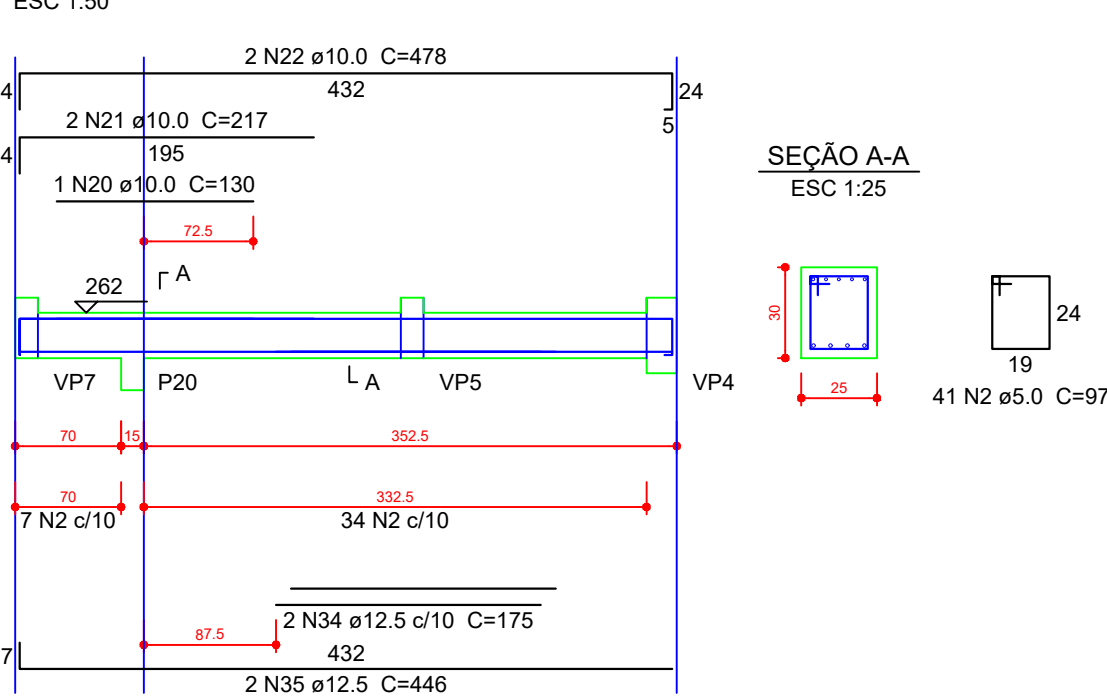
VP15 (15 x 27)



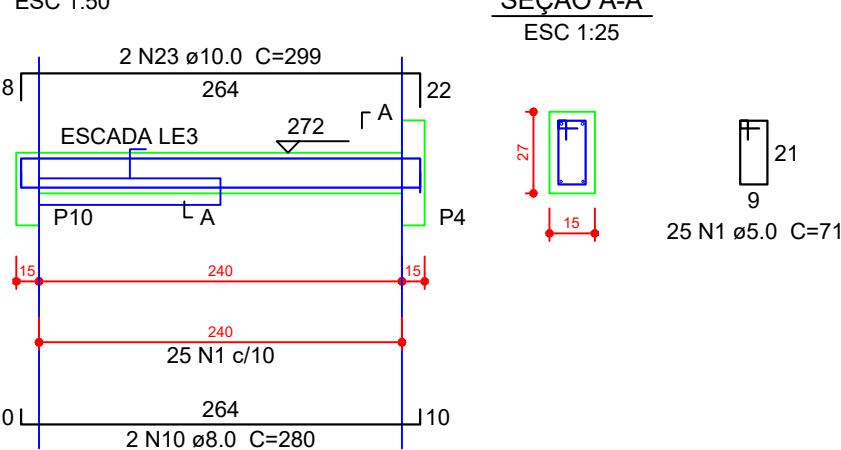
VP16 (15 x 27)



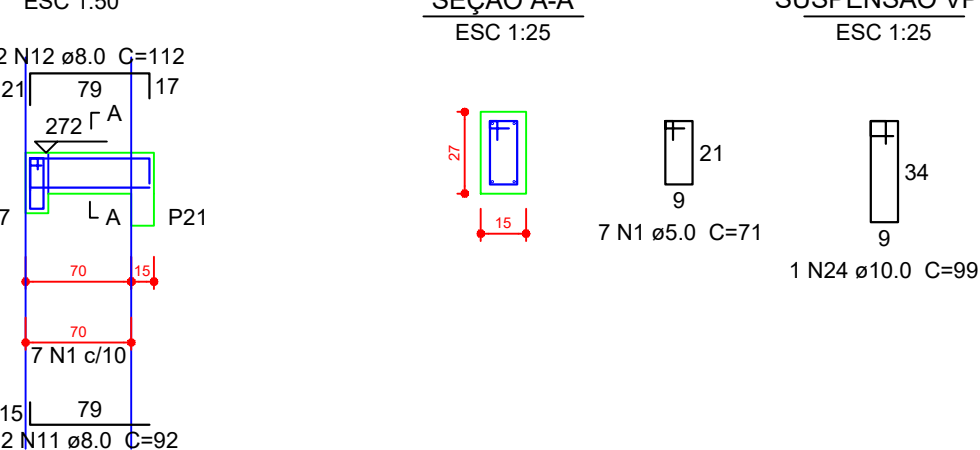
VP17 (25 x 30)



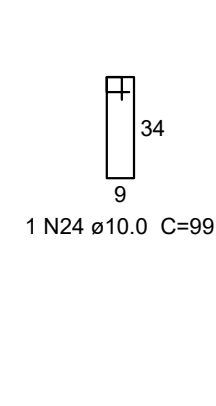
VP18 (15 x 27)



VP19 (15 x 27)



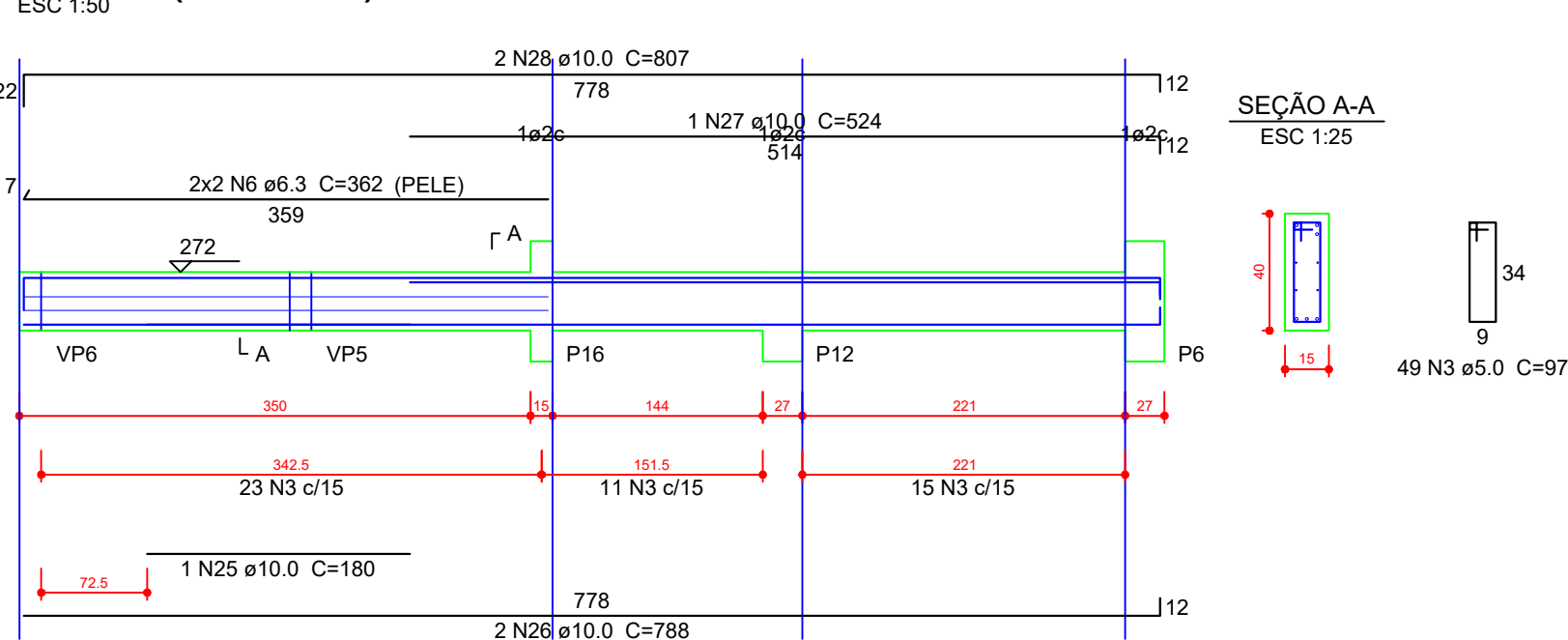
SUSPENSÃO VP7



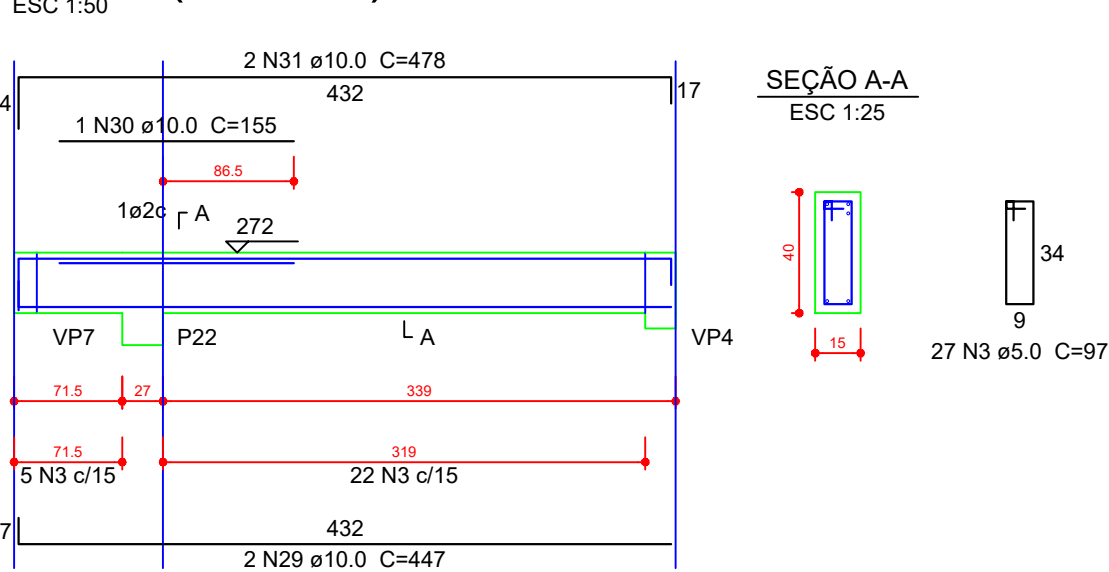
Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VP15	1	5.0	119	71	8449
VP18	2	5.0	41	97	3977
VP21	3	5.0	76	97	7372
VP24	4	5.0	26	117	3042
CA50	5	5.0	42	61	2562
	6	6.3	4	362	1448
	7	8.0	2	182	364
	8	8.0	2	272	544
	9	8.0	2	293	586
	10	8.0	4	280	1120
	11	8.0	2	92	184
	12	8.0	2	112	224
	13	8.0	2	487	974
	14	8.0	2	503	1006
	15	8.0	4	143	572
	16	8.0	2	173	346
	17	8.0	2	180	360
	18	8.0	2	305	610
	19	10.0	2	204	408
	20	10.0	1	130	130
	21	10.0	2	217	434
	22	10.0	2	478	956
	23	10.0	2	299	598
	24	10.0	1	99	99
	25	10.0	1	180	180
	26	10.0	2	788	1576
	27	10.0	1	524	524
	28	10.0	2	807	1614
	29	10.0	2	447	894
	30	10.0	1	155	155
	31	10.0	2	478	956
	32	10.0	2	436	872
	33	10.0	4	445	1780
	34	12.5	2	175	350
	35	12.5	2	446	892

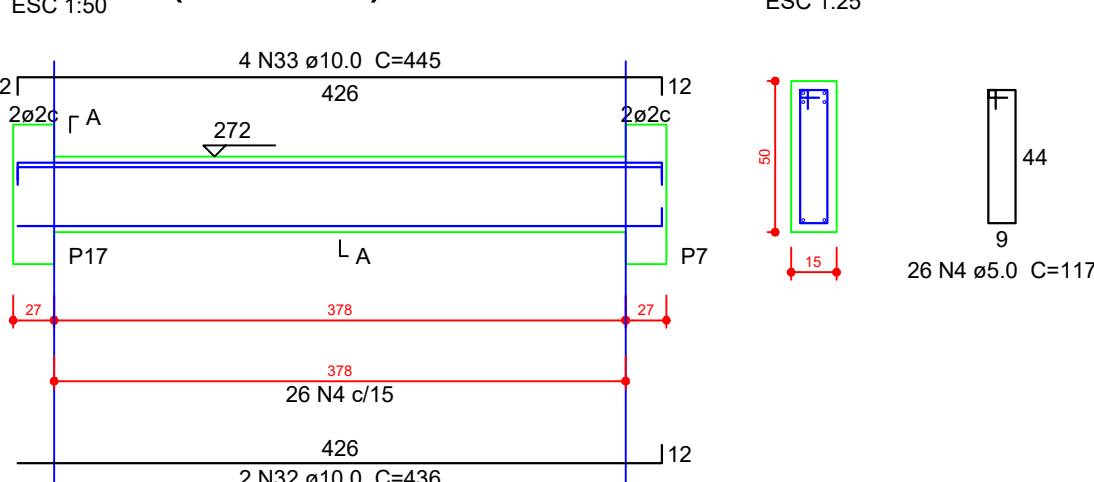
VP20 (15 x 40)



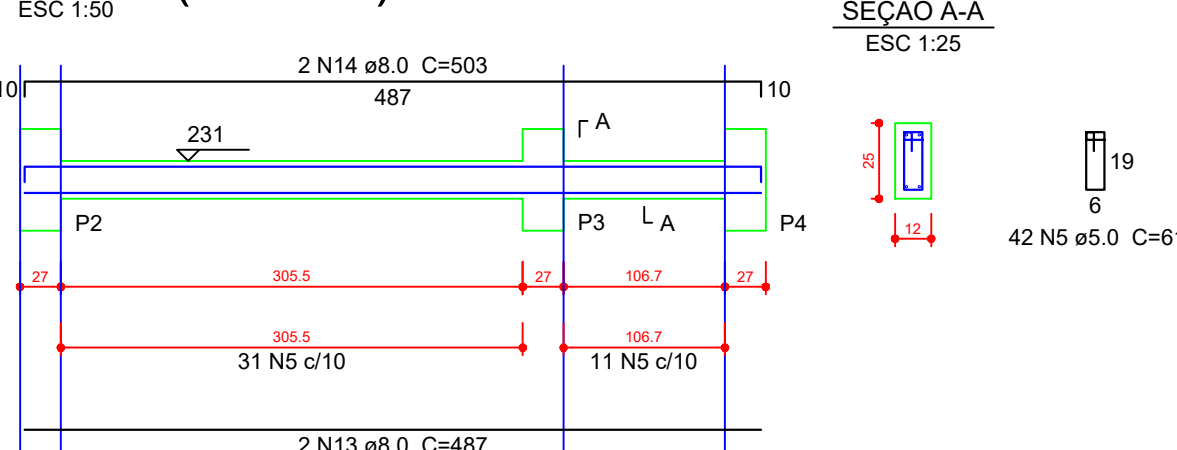
VP21 (15 x 40)



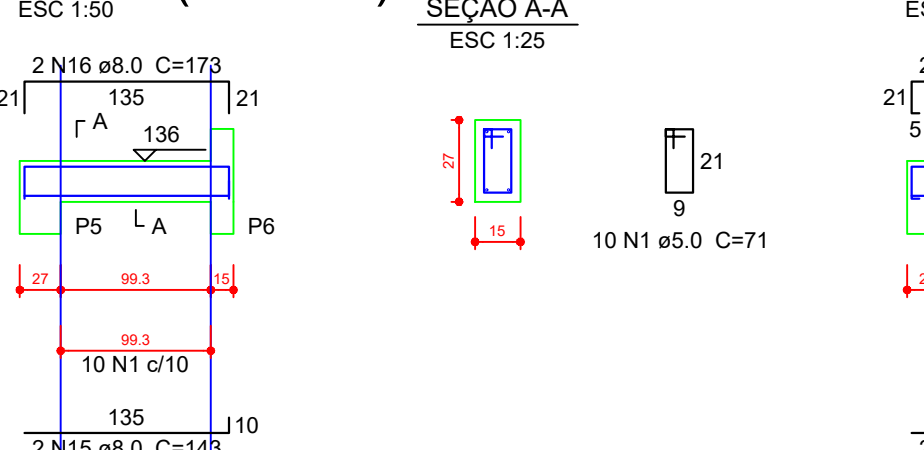
VP22 (15 x 50)



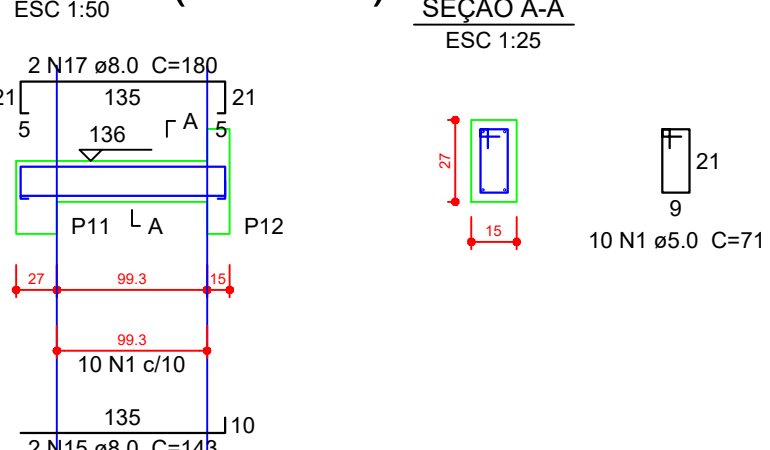
VP23 (12 x 25)



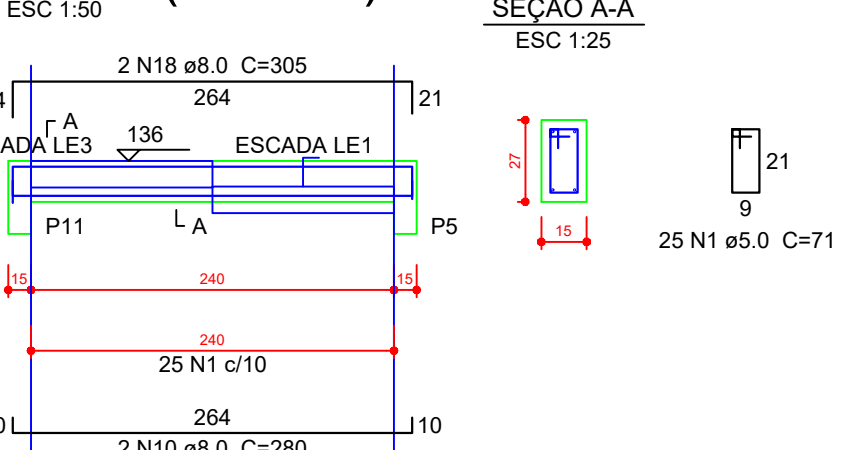
VP24 (15 x 27)



VP25 (15 x 27)



VP26 (15 x 27)

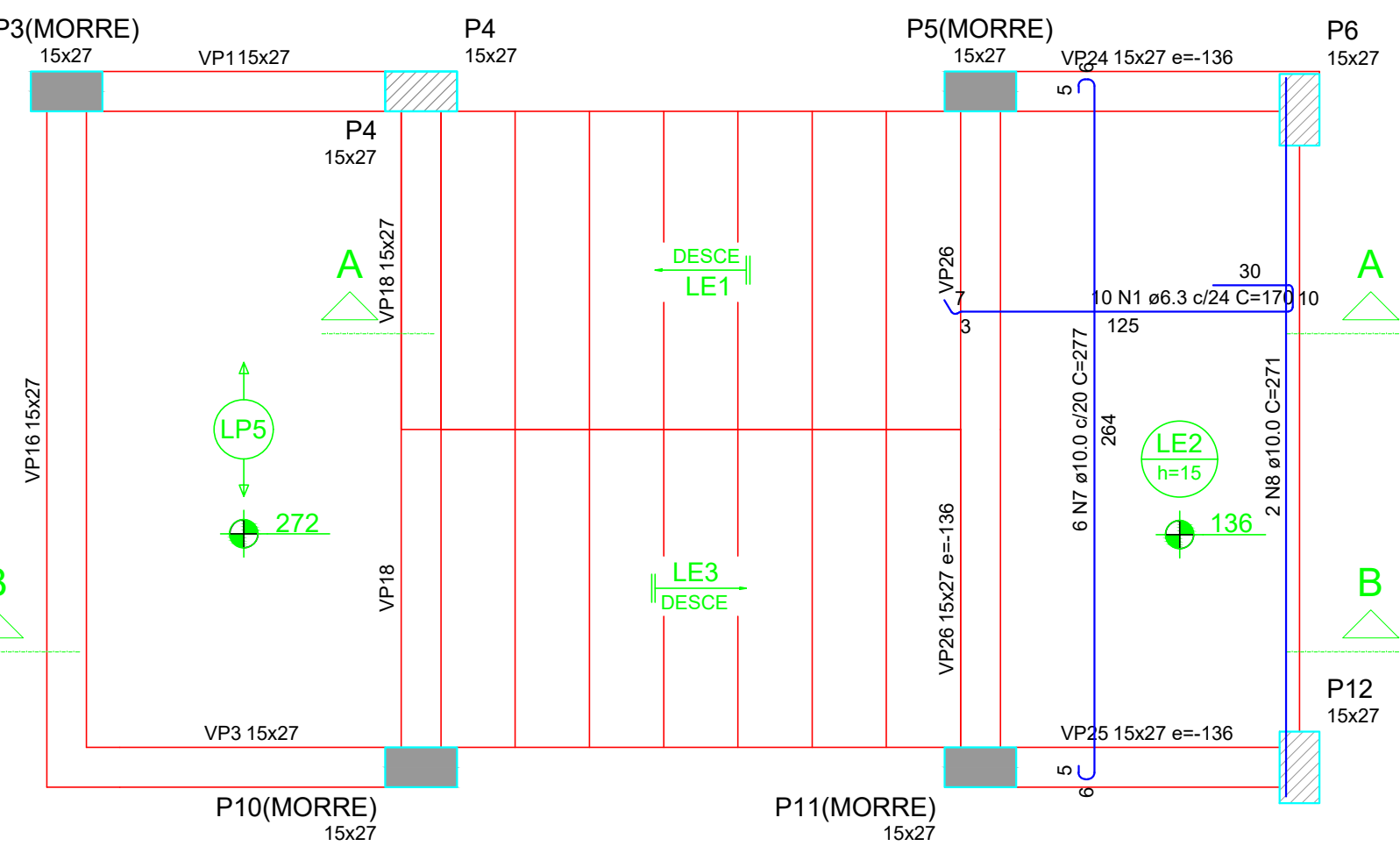


Resumo do aço

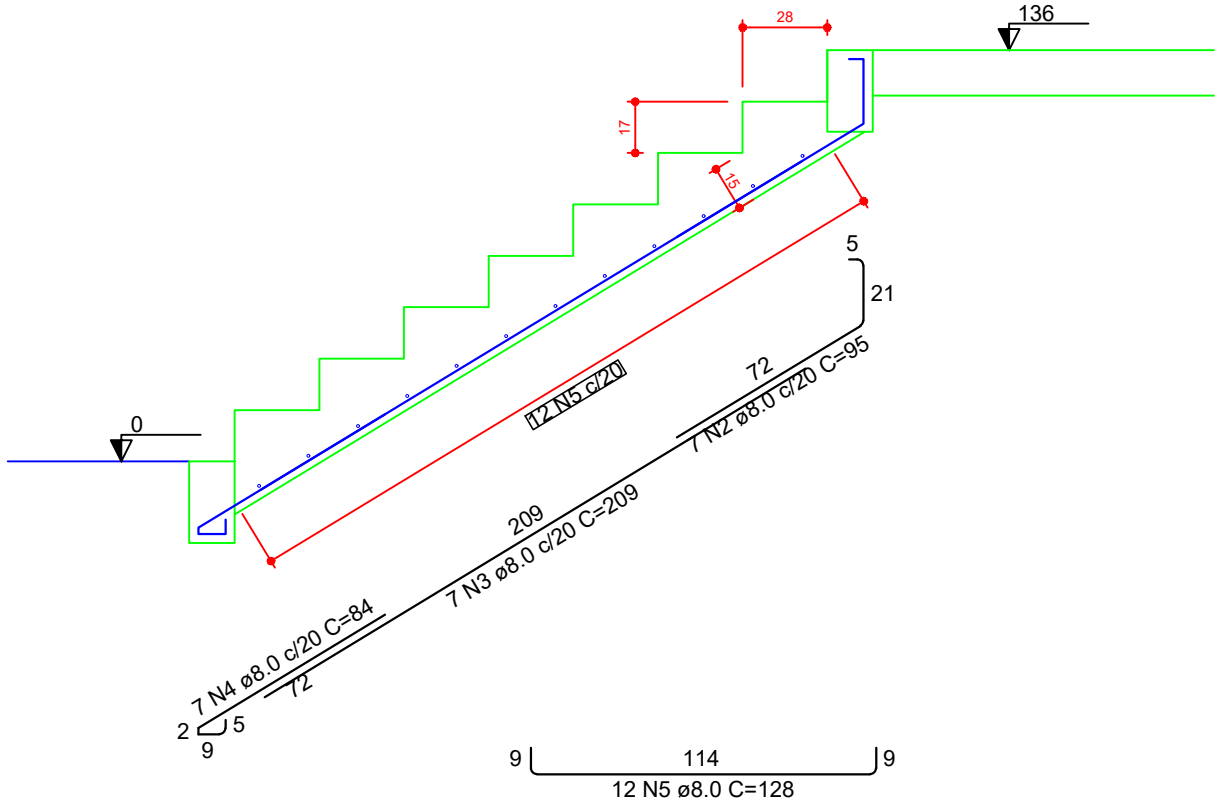
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	14.5	3.9
	8.0	68.9	29.9
	10.0	111.8	75.8
	12.5	12.5	13.2
CA60	5.0	254.1	43.1
PESO TOTAL (kg)			
CA50		122.8	
CA60		43.1	

Volume de concreto (C-25) = 1.85 m³
Área de forma = 22.66 m²

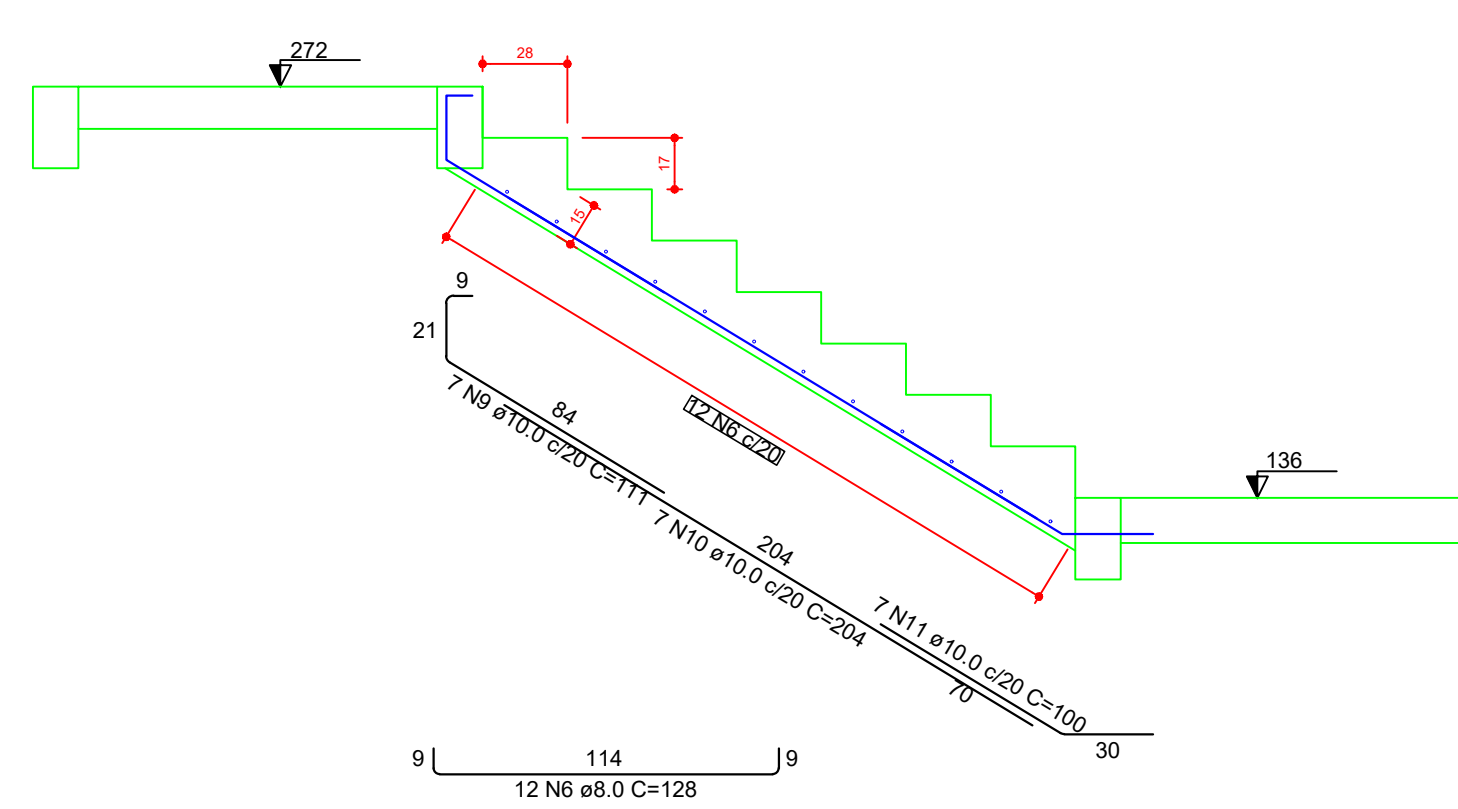
DETALHES DA ESCADA
ESCALA1:25



Armação positiva da escada E1



Corte A-A (LE1)



Corte B-B (LE3)

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	10	170	1700
	2	8.0	7	95	665
	3	8.0	7	209	1463
	4	8.0	7	84	588
	5	8.0	12	128	1536
	6	8.0	12	128	1536
	7	10.0	6	277	1662
	8	10.0	2	271	542
	9	10.0	7	111	777
	10	10.0	7	204	1428
	11	10.0	7	100	700

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	17	4.6
	8.0	57.9	25.1
	10.0	51.1	34.6
PESO TOTAL (kg)			
CA50		64.3	

Volume de concreto (C-25) = 1.67 m³
Área de forma = 14.66 m²

PROJETO	PROJETO ESTRUTURAL - CABINES	
	obra	
	CABINES DE NARRAÇÃO, ARQUIBANCADA E BANCO DE RESERVA	
	proprietário PREFEITURA MUNICIPAL DE RIO AZUL	prancha: 08/16
	projeto e responsável técnico JÉSSICA ELAINE CUSTÓDIO	VIGAS DO PISO SUPERIOR, ESCADA
	ENGENHEIRA CIVIL - CREA/PR-166.456/0	
	escala: 1:25	DESENHO: JEP
	data: 08/08/2008	art: 08/08/2008