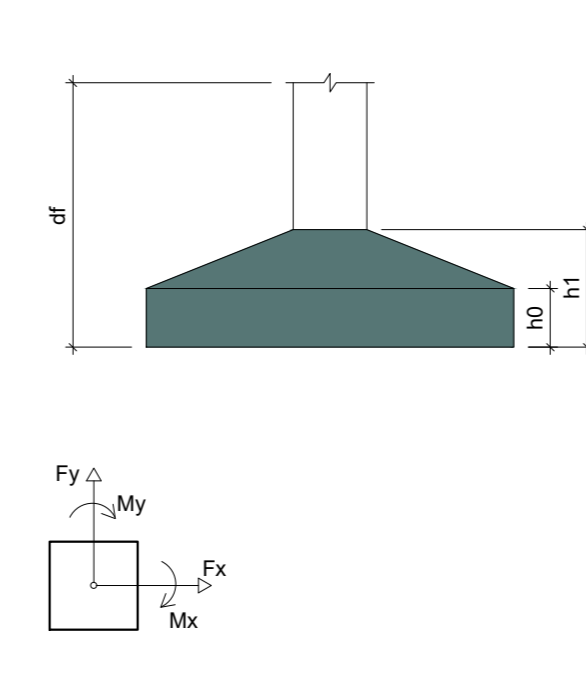


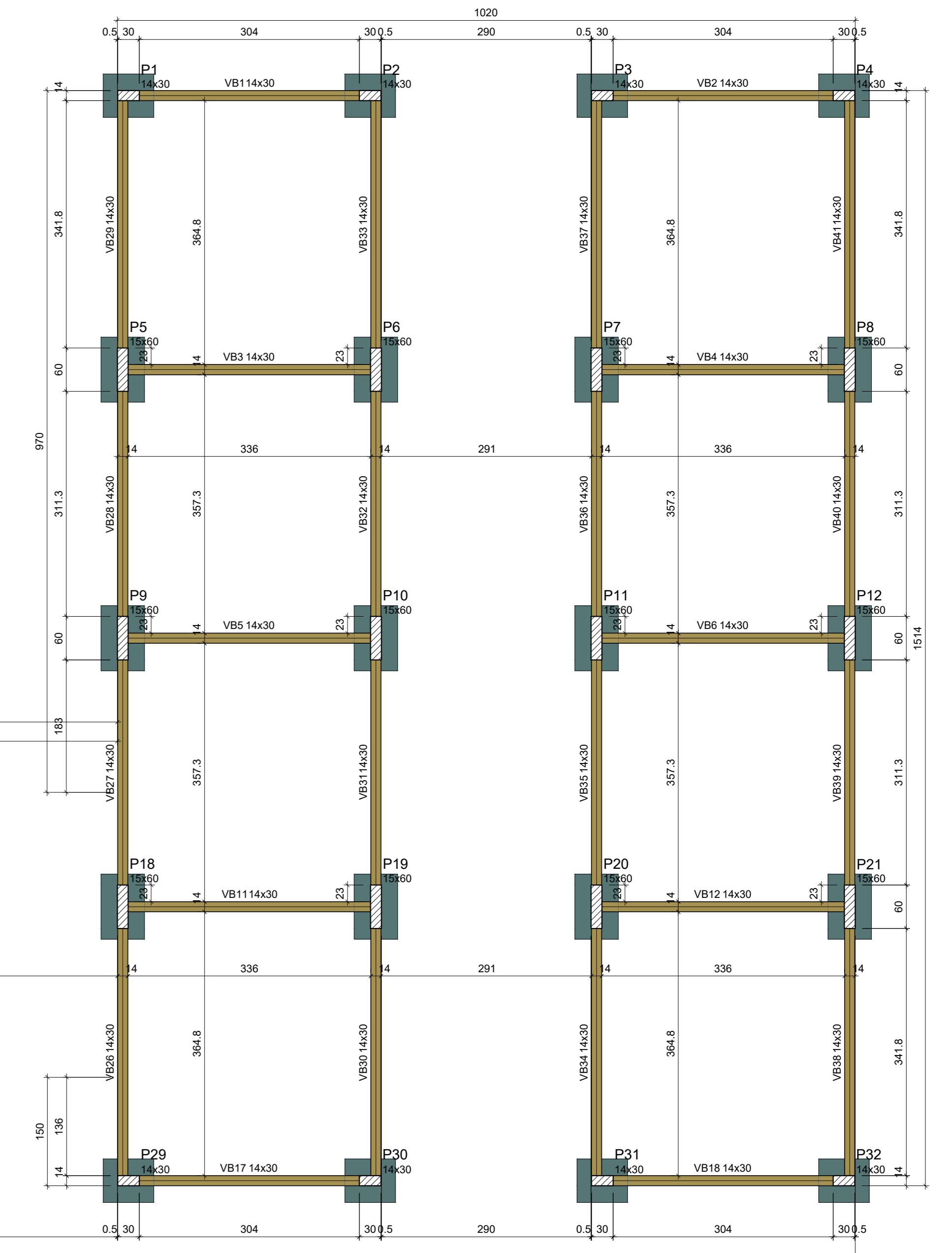
Nome	Seção	X (cm)	Y (cm)	Carga Máx. (t)	Carga Min. (t)	Pilar				Fundação							
						Mx Máximo (kgf.m)		My Máximo (kgf.m)		Fx Máximo (t)		Fy Máximo (t)					
						Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo				
P1	14x30	1715.50	1387.50	2.5	2.0	0	0	0	0	0.4	0.5	0.4	0.0	60	70	25	25

Localização no eixo X		Localização no eixo Y	
Coordenadas (cm)	Nome	Coordenadas (cm)	Nome
7.50	P13, P25	1387.50	P1, P2, P3, P4
343.50	P26	978.75	P5, P6, P7, P8
526.51	P27	607.50	P9, P10, P11, P12
695.51	P28	387.50	P13, P14
1077.00	P29	236.25	P15, P16, P17, P18
		150.00	P19, P20, P21, P22, P23, P24
		-142.50	P25, P26, P27, P28, P29, P30, P31, P32



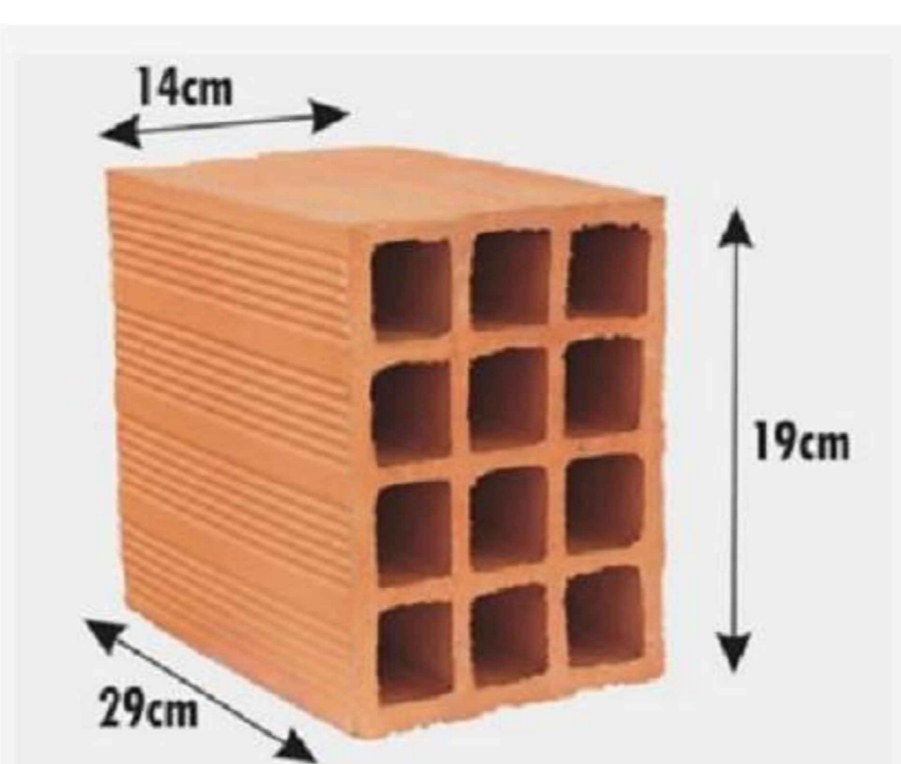
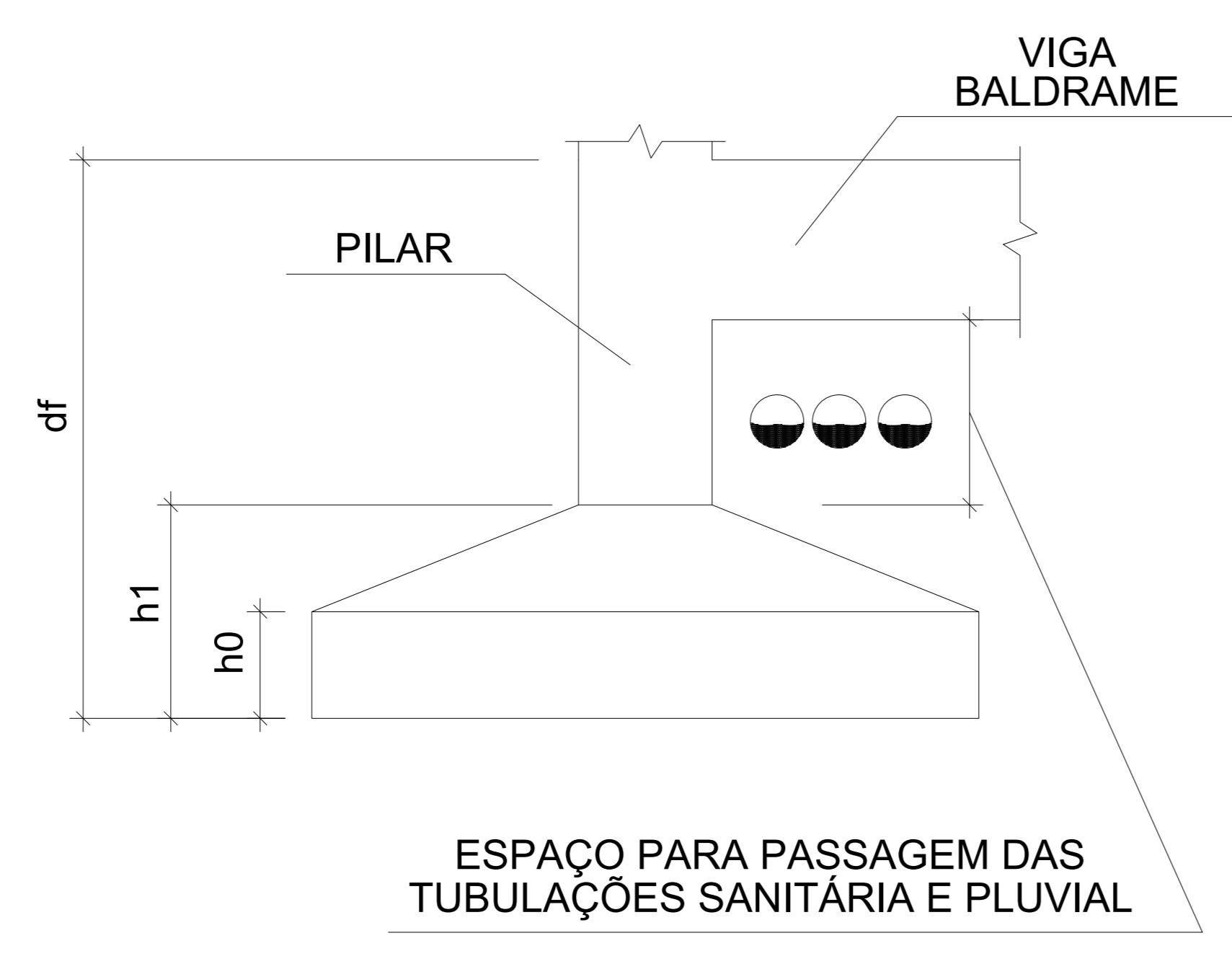
CONSIDERAÇÕES

- Tensão admissível do solo considerada igual a 0,80 kgf/cm².
- Realizar um lastro de brita 1 com 3 cm de altura no fundo das sapatas;
- Drenar a água, se encontrada durante a escavação, antes de executar a fundação;
- Espessura de cobrimento de proteção igual a 5cm em elementos em contato com o solo;
- Executar compactação do solo previamente.



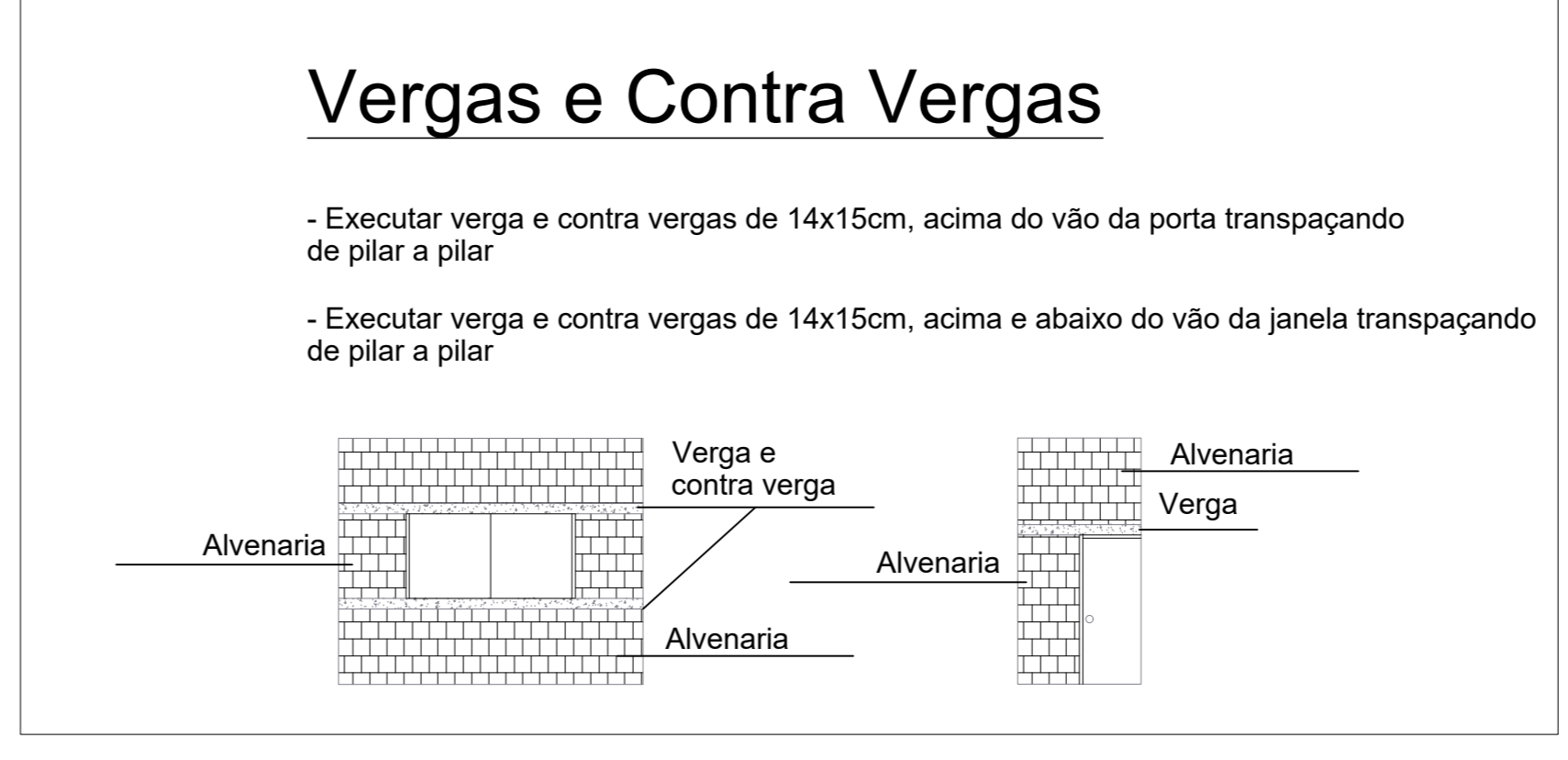
Nome	Seção	Elevação (cm)	Nível (cm)
VB1	14x30	0	0
VB2	14x30	0	0
VB3	14x30	0	0
VB4	14x30	0	0
VB5	14x30	0	0
VB6	14x30	0	0
VB7	14x30	0	0
VB8	14x30	0	0
VB9	14x30	0	0
VB10	14x30	0	0
VB11	14x30	0	0
VB12	14x30	0	0
VB13	14x30	0	0
VB14	14x30	0	0
VB15	14x30	0	0
VB16	14x30	0	0
VB17	14x30	0	0
VB18	14x30	0	0
VB19	14x30	0	0
VB20	14x30	0	0
VB21	14x30	0	0
VB22	14x30	0	0
VB23	14x30	0	0
VB24	14x30	0	0
VB25	14x30	0	0
VB26	14x30	0	0
VB27	14x30	0	0
VB28	14x30	0	0
VB29	14x30	0	0
VB30	14x30	0	0
VB31	14x30	0	0
VB32	14x30	0	0
VB33	14x30	0	0
VB34	14x30	0	0
VB35	14x30	0	0
VB36	14x30	0	0
VB37	14x30	0	0
VB38	14x30	0	0
VB39	14x30	0	0
VB40	14x30	0	0
VB41	14x30	0	0

Nome	Seção	Elevação (cm)	Nível (cm)
P1	14x30	0	0
P2	14x30	0	0
P3	14x30	0	0
P4	14x30	0	0
P5	15x60	0	0
P6	15x60	0	0
P7	15x60	0	0
P8	15x60	0	0
P9	15x60	0	0
P10	15x60	0	0
P11	15x60	0	0
P12	15x60	0	0
P13	14x30	0	0
P14	14x30	0	0
P15	14x30	0	0
P16	14x30	0	0
P17	14x30	0	0
P18	14x30	0	0
P19	15x60	0	0
P20	15x60	0	0
P21	15x60	0	0
P22	14x30	0	0
P23	14x30	0	0
P24	14x30	0	0
P25	14x30	0	0
P26	14x30	0	0
P27	14x30	0	0
P28	14x30	0	0
P29	14x30	0	0
P30	14x30	0	0
P31	14x30	0	0
P32	14x30	0	0



SUGESTÃO DE TIJOLO CERÂMICO

- 12 furos;
- Rendimento de 17 peças por m² (assentamento em pé);
- Utilizar argamassa de cimento e areia no traço 1:4
- Em paredes de divisa deve-se utilizar de 1/2 vez (deitado);



Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kg/m ²)	Adicional	Acidental	Localizada
LB1	Mauca	12	0	0	300	154	300	-

Características dos materiais		
fcx (kgf/cm ²)	Ecs (kgf/cm ²)	
200	241500	

Legenda dos pilares		Legenda das vigas e paredes	
[Symbol]	Pilar que passa	[Symbol]	Viga

Forma do pavimento FUNDAÇÃO (Nível 0) escala 1:50

1. ESTE PROJETO É PROPRIEDADE DO PROJETISTA REGISTRADO NO SELO, CONFORME LEI N.º 5196/96 NÃO DEVE SER UTILIZADO PARA QUALQUER OUTRA FINALIDADE QUE NÃO SE RELACIONE COM A EXECUÇÃO DA PRESENTE EDIFICAÇÃO, SENDO TERMINANTEMENTE VEDADA SUA COLOCAÇÃO A DISPOSIÇÃO DE TERCEIROS;

2. O PROJETISTA NÃO SE RESPONSABILIZARÁ POR EVENTUAIS ALTERAÇÕES DESSTE PROJETO DURANTE SUA EXECUÇÃO. QUALQUER MODIFICAÇÃO, O MESMO DEVE SER CONTACTADO.

3. ESTE PROJETO FÓR BASEADO NO LAYOUT E INFORMAÇÕES FORNECIDAS PELO ARQUITETO OU PROPRIETÁRIO;

4. QUALQUER MODIFICAÇÃO OU DÚVIDA DEVERÁ SER IMEDIATAMENTE COMUNICADA POR ESCRITO AO PROJETISTA.

Agência Orça | Engenharia Civil - Custos
Avenida das Embaixas, nº 822 - Sala 03, Setor Comercial, Sinoop.MT.
(65) 9999-3345
robertson.orcas@gmail.com

PROJETO DE URBANIZAÇÃO
PRAÇA DOS MIGRANTES, CLÁUDIA - MT, CEP: 78940-000

Projeto Estrutural

Único

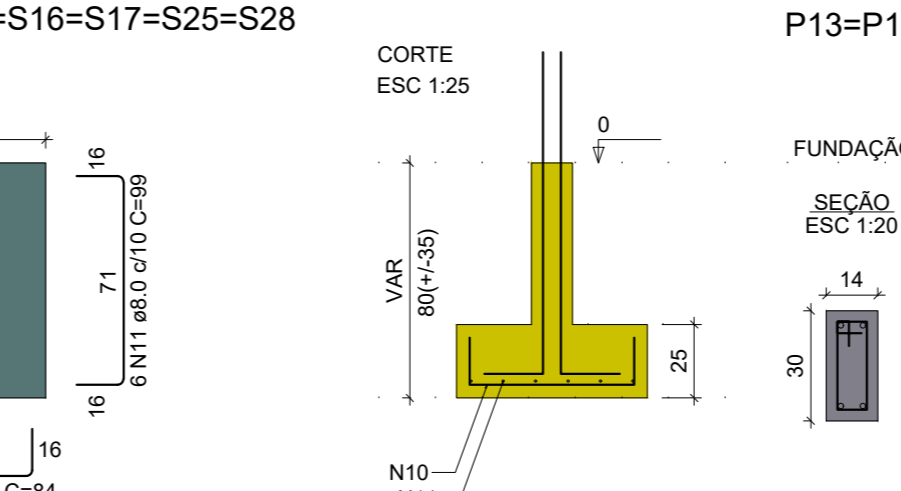
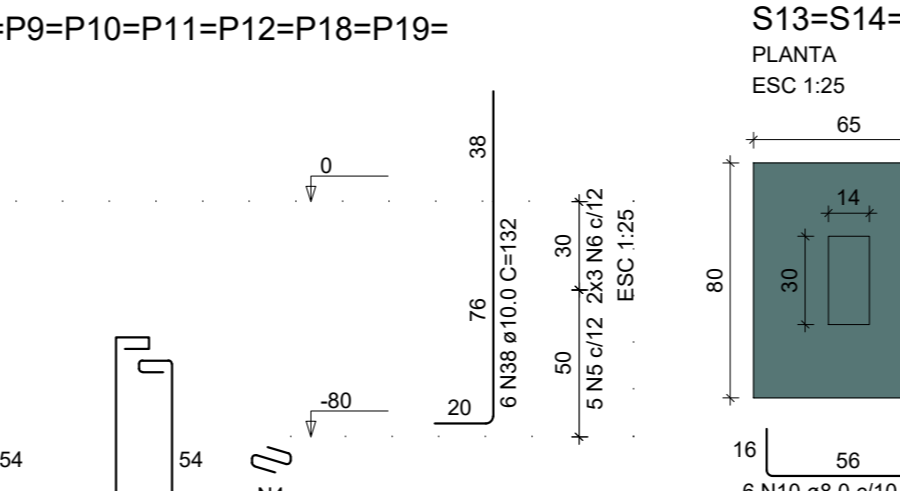
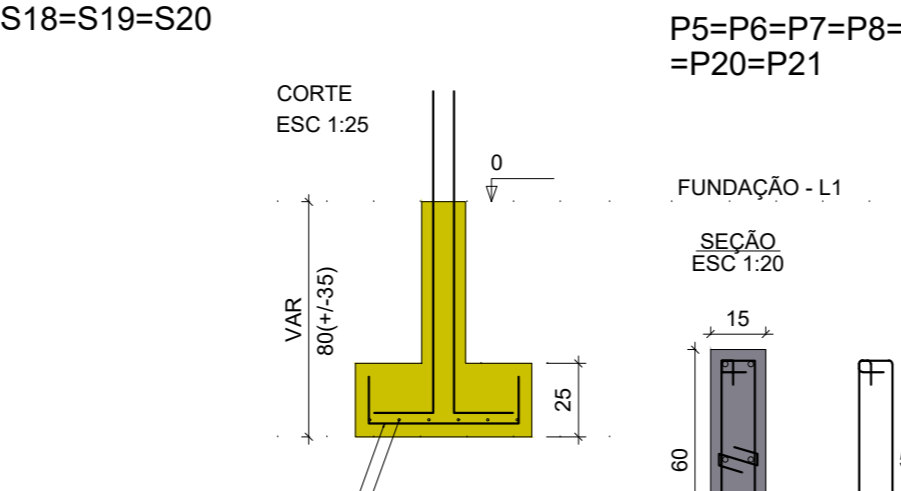
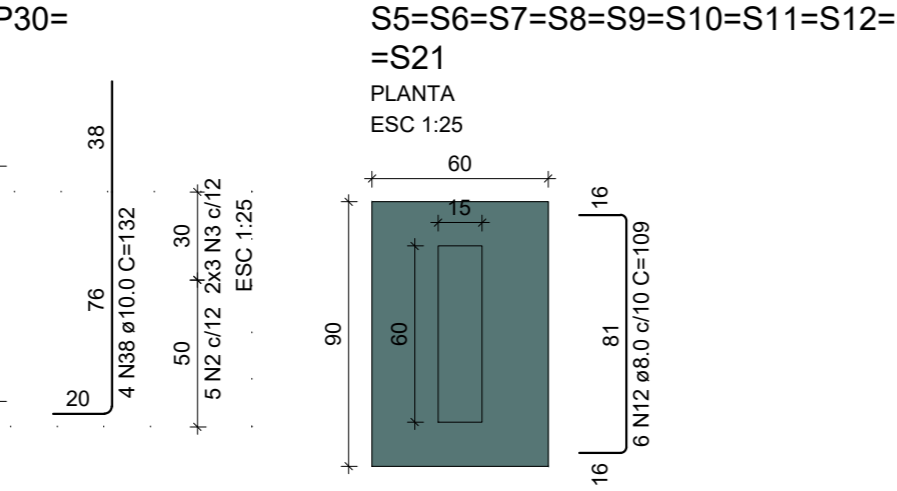
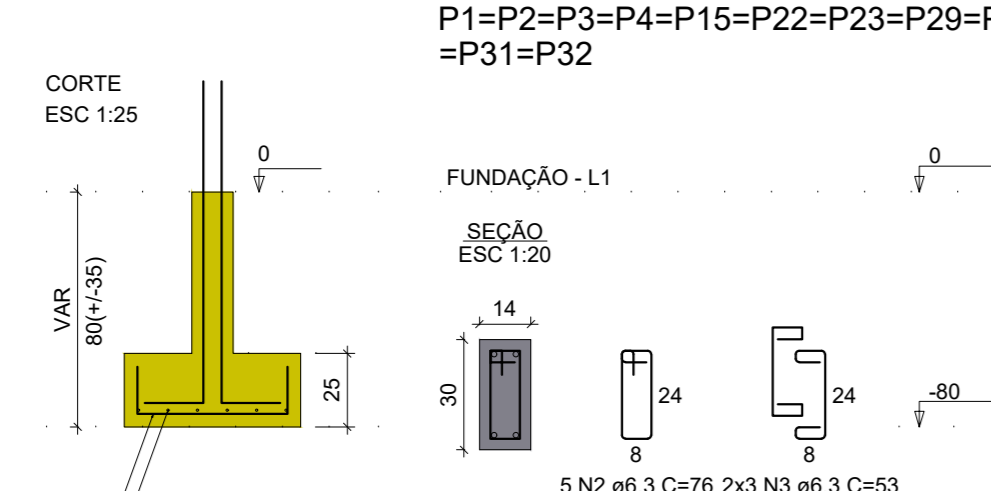
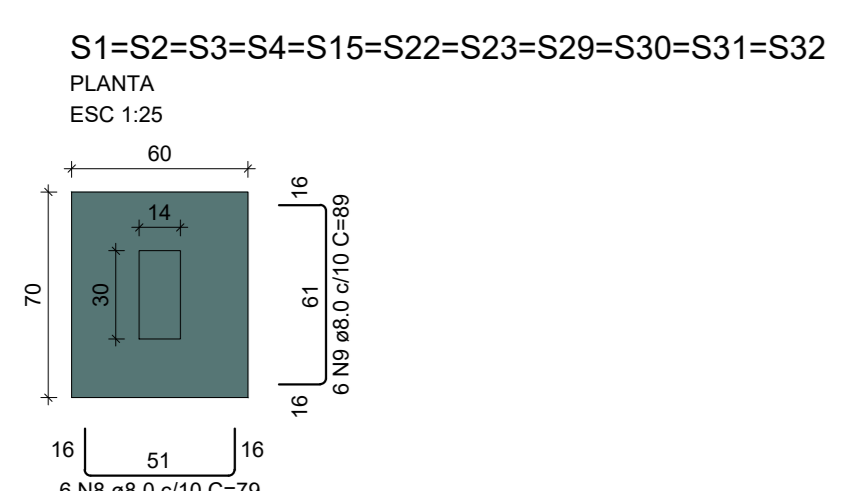
Localização; Fôrmas do Pavto. Fundação; Observações gerais.

Out/2020

Indicada

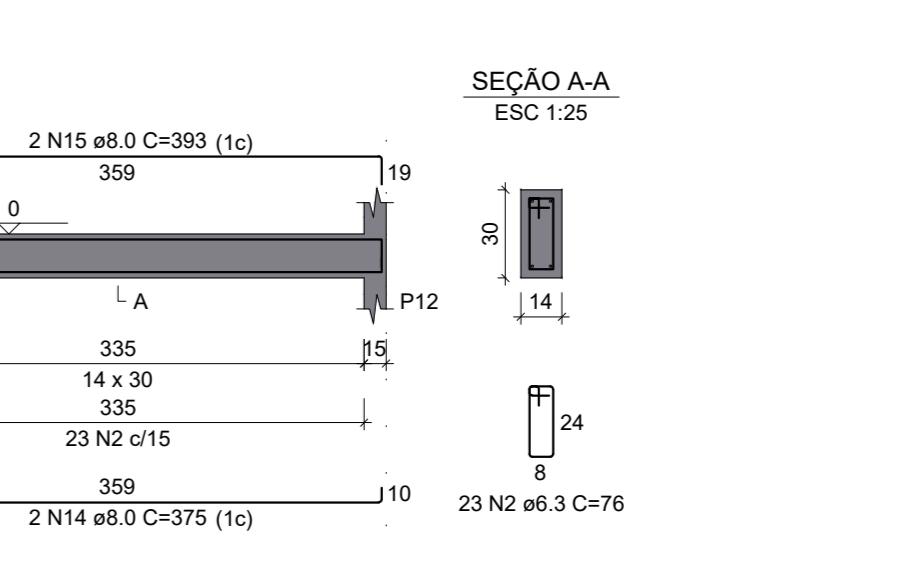
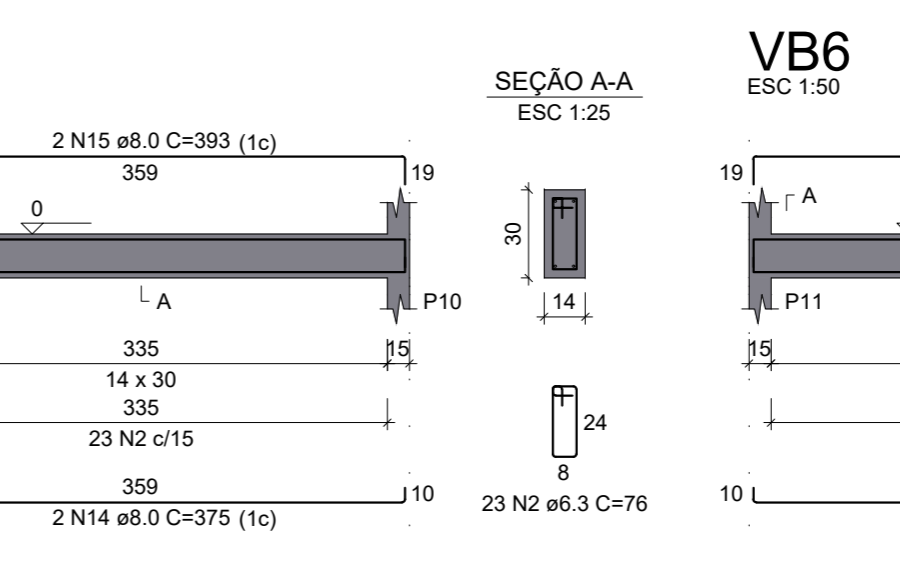
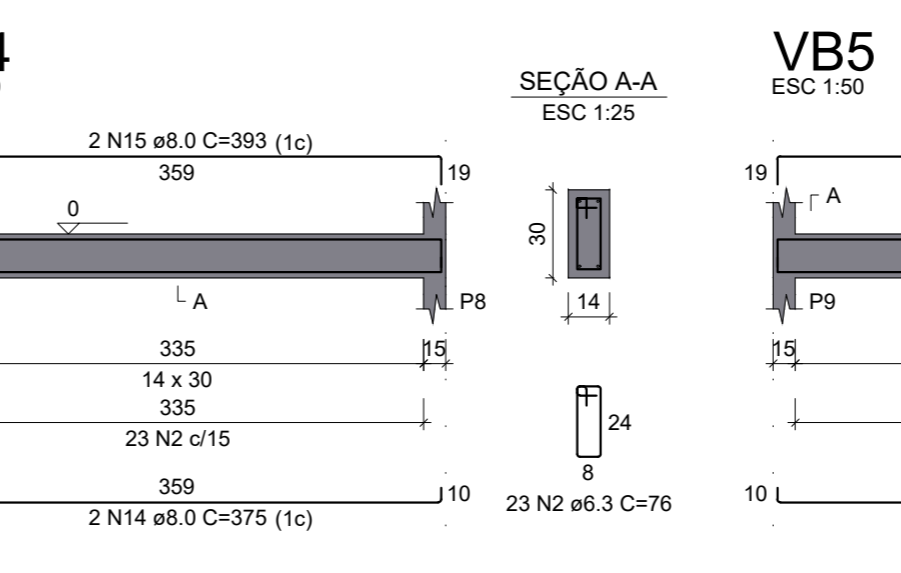
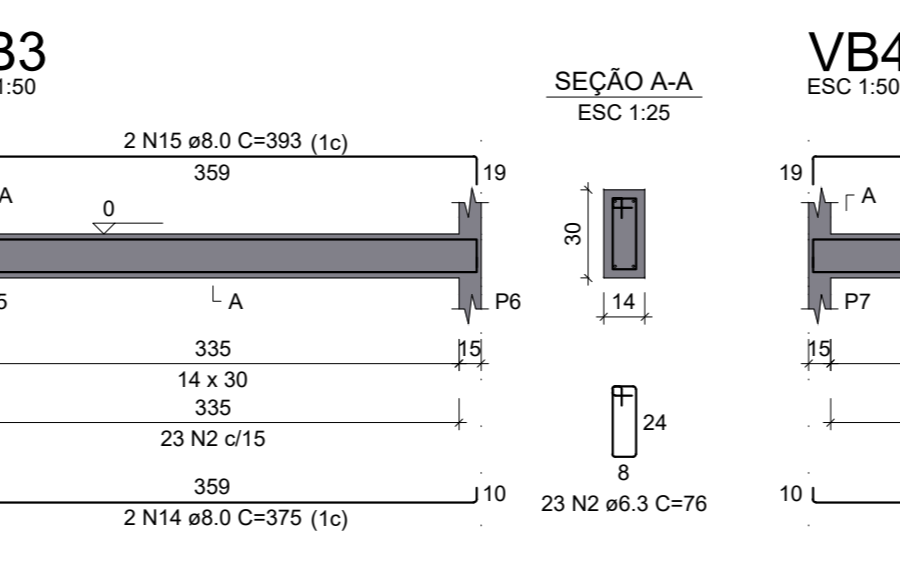
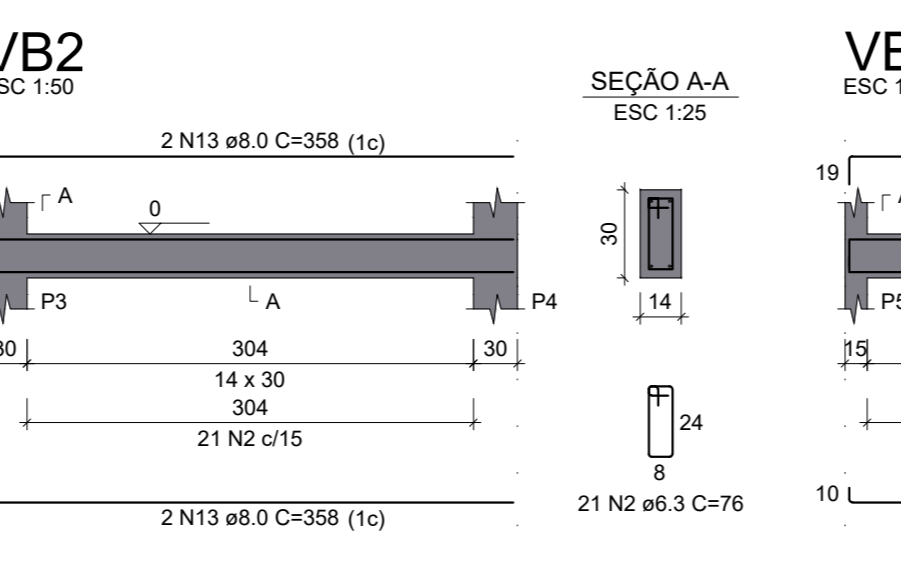
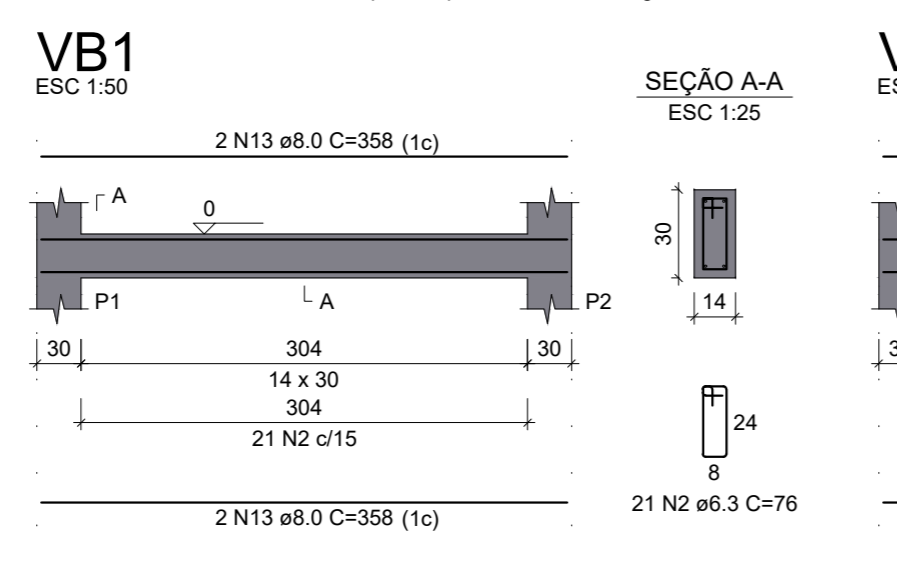
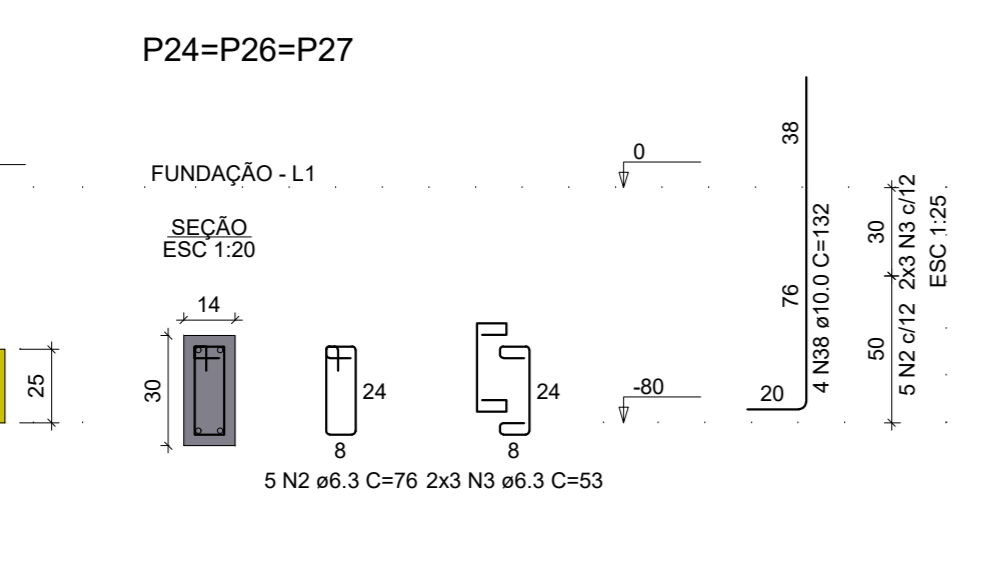
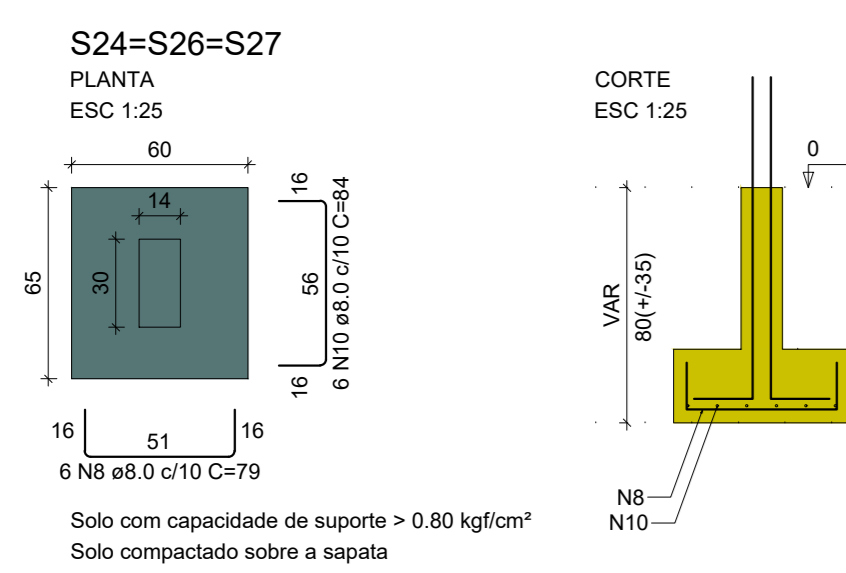
Daniela de Lima Delmondes

1



RELAÇÃO DO AÇO

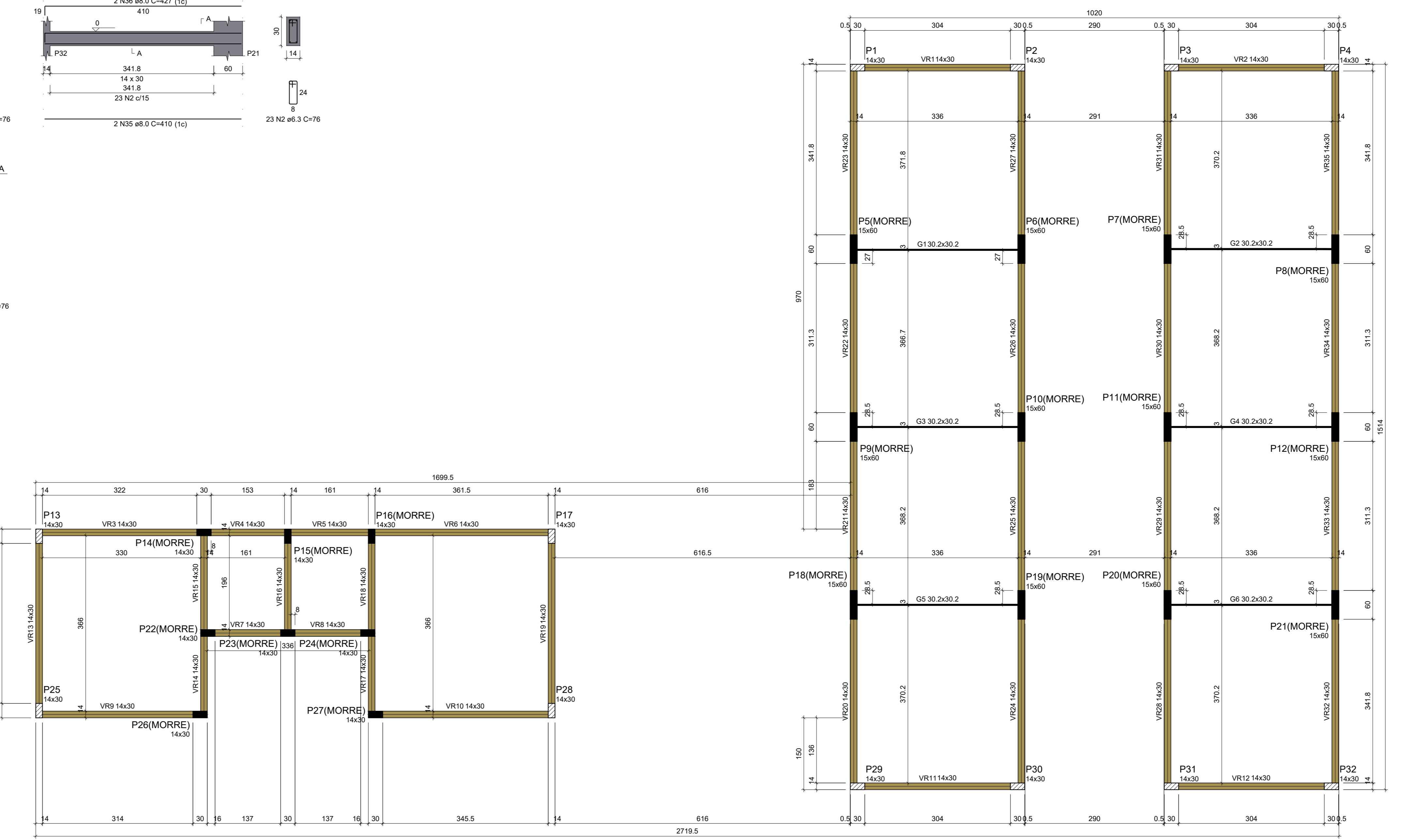
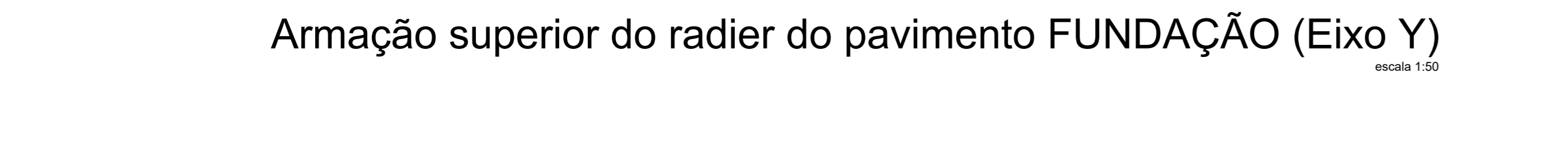
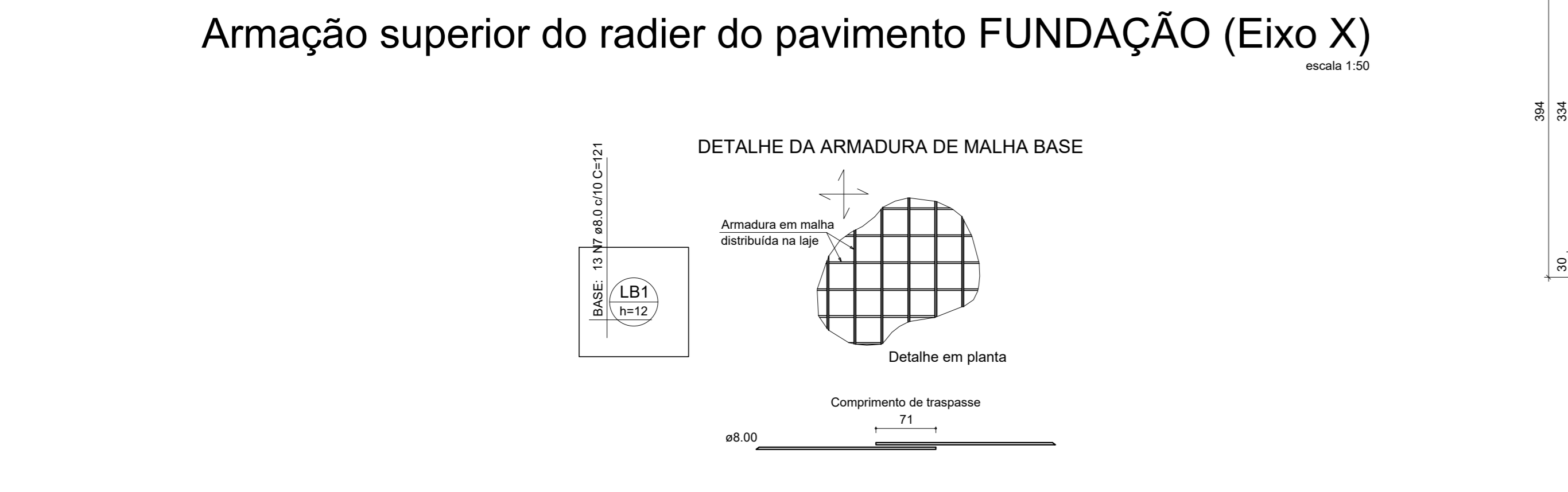
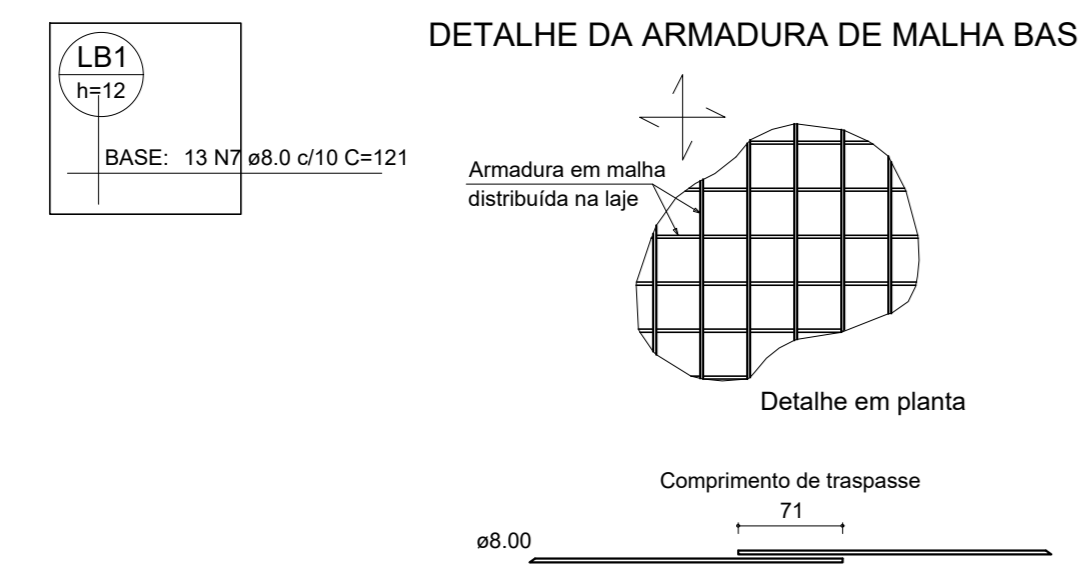
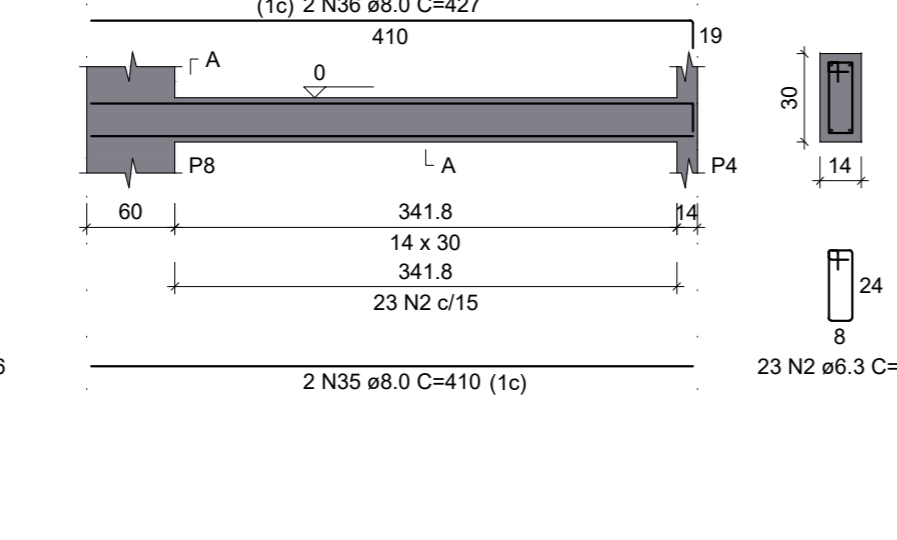
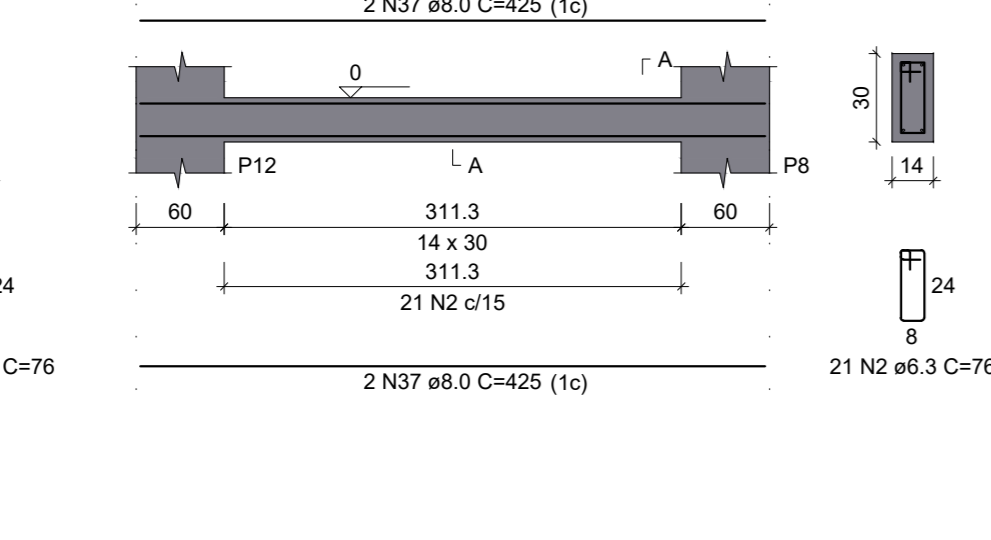
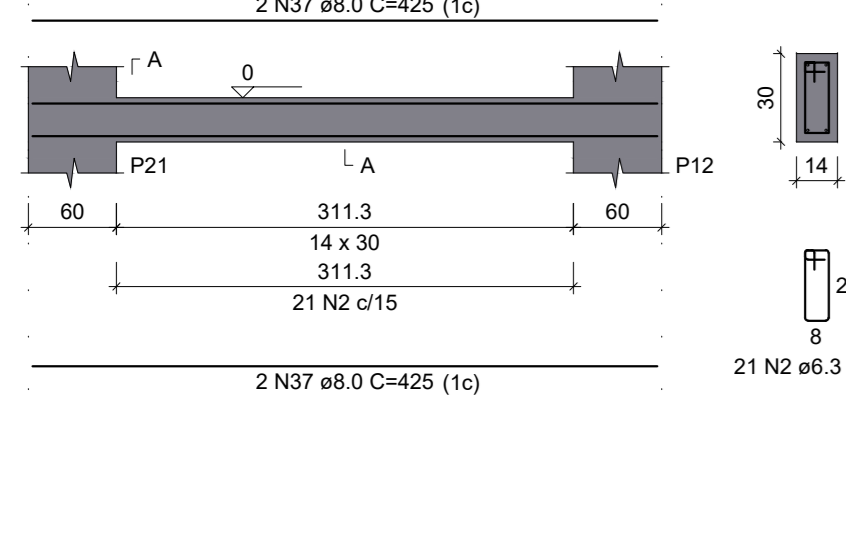
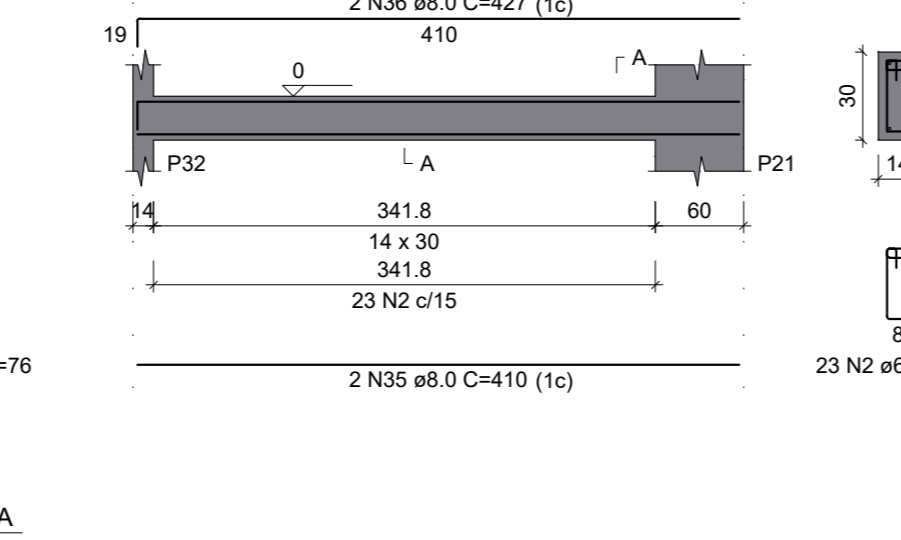
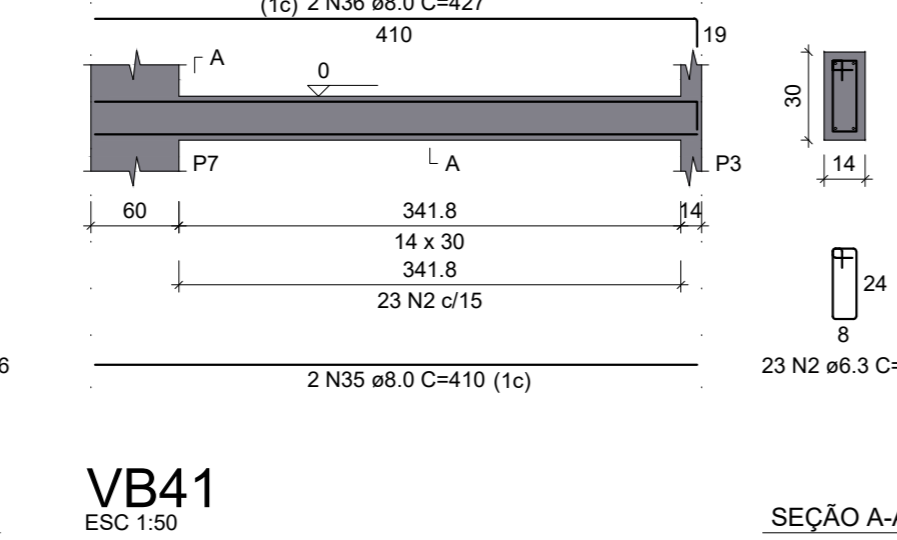
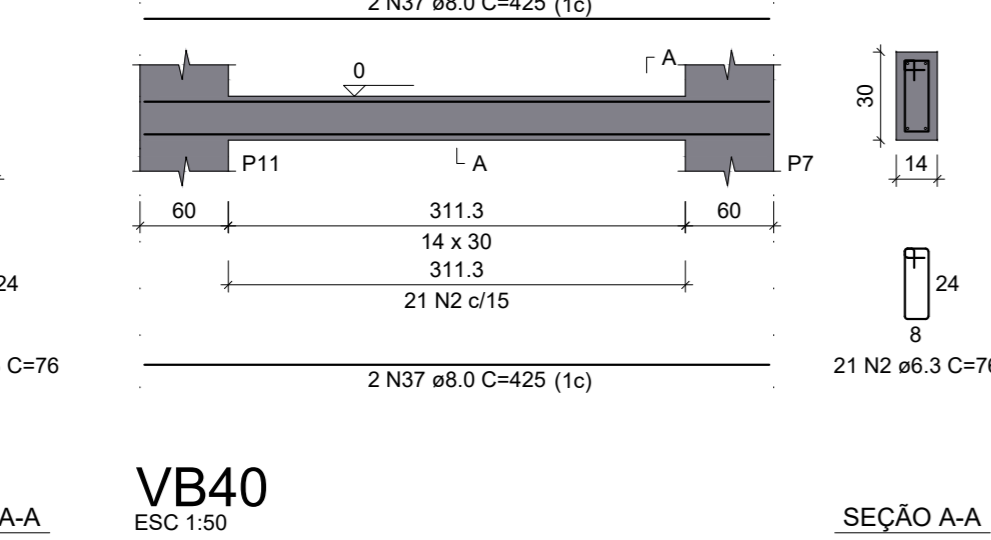
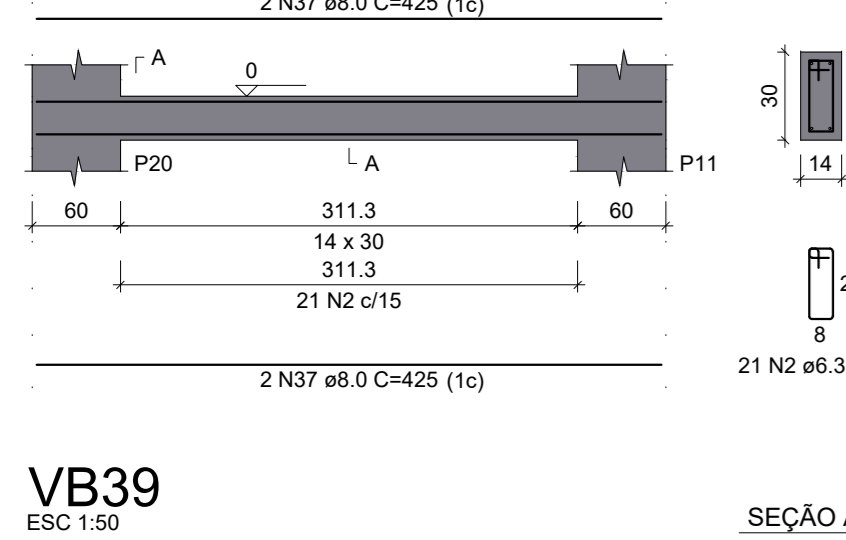
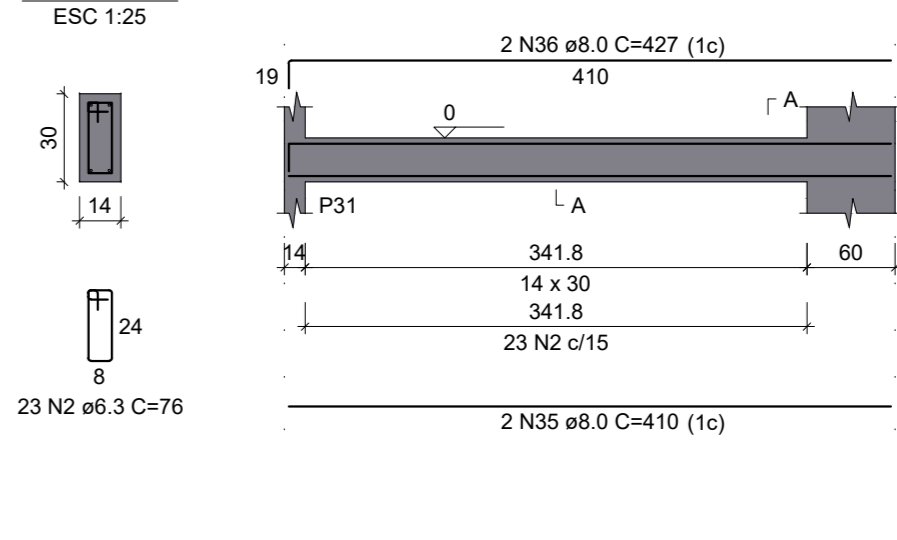
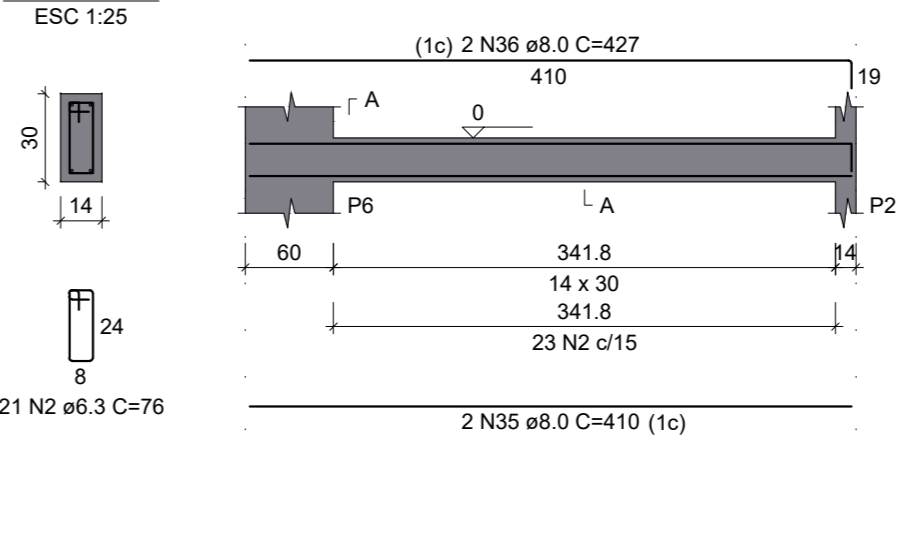
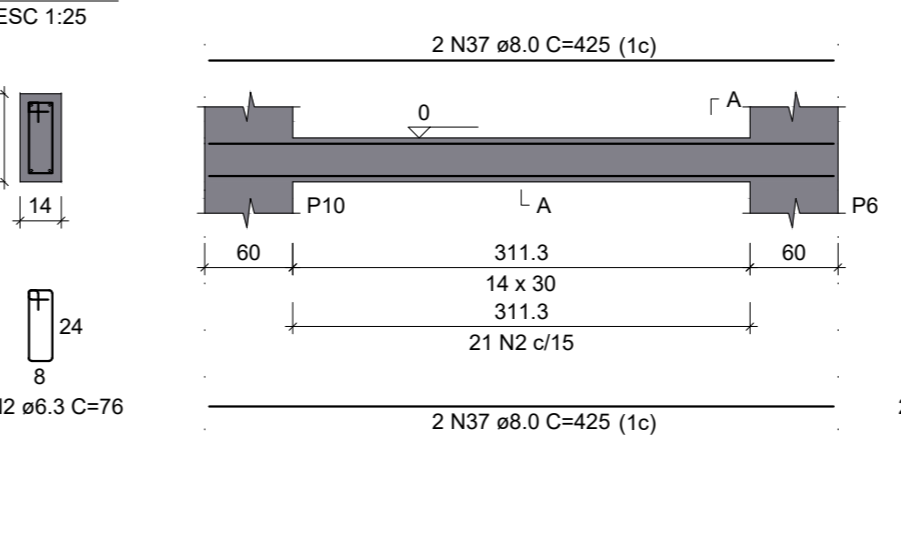
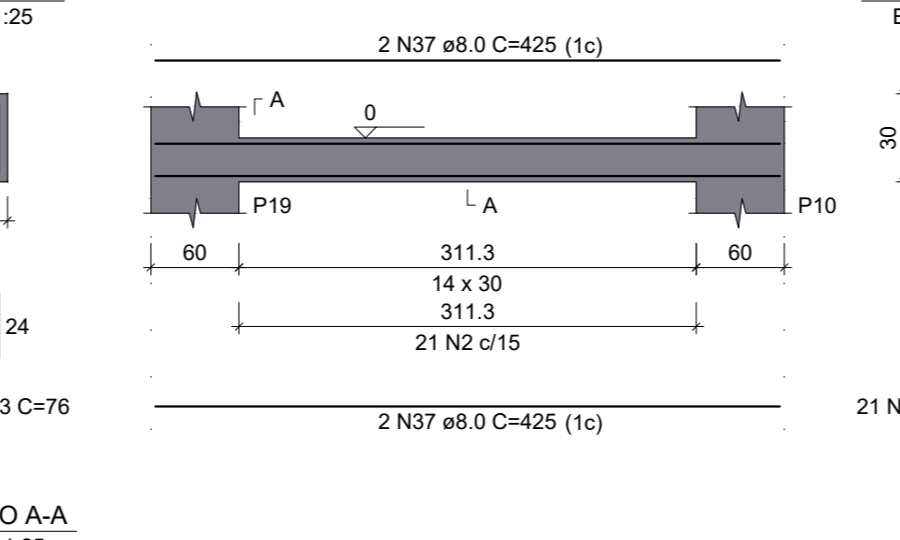
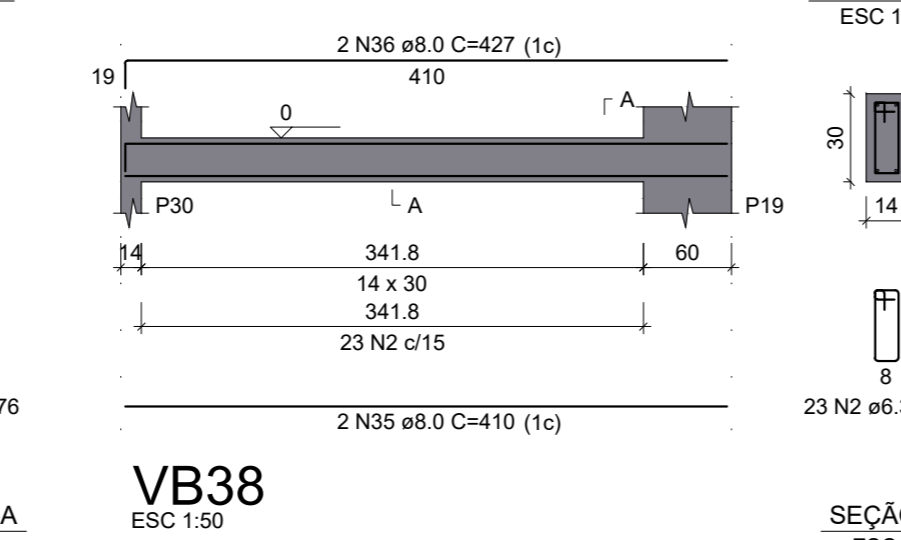
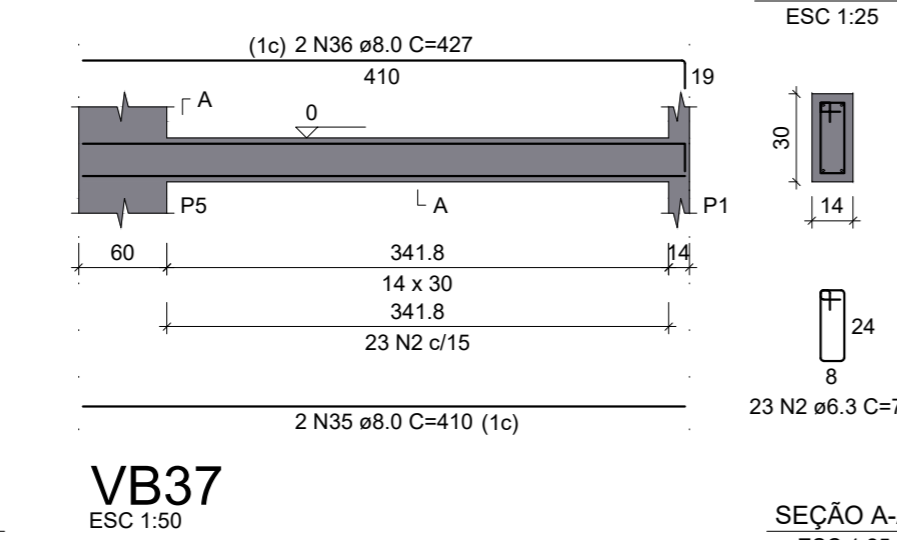
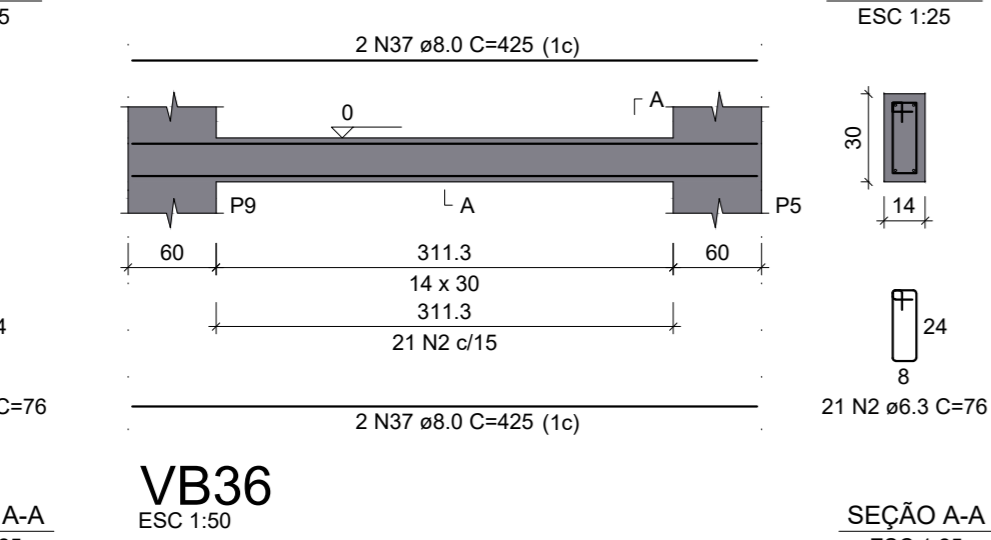
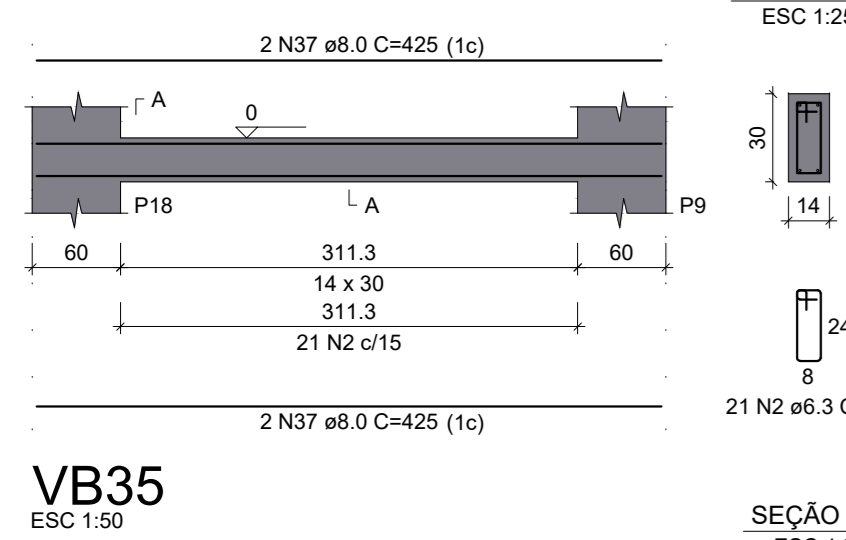
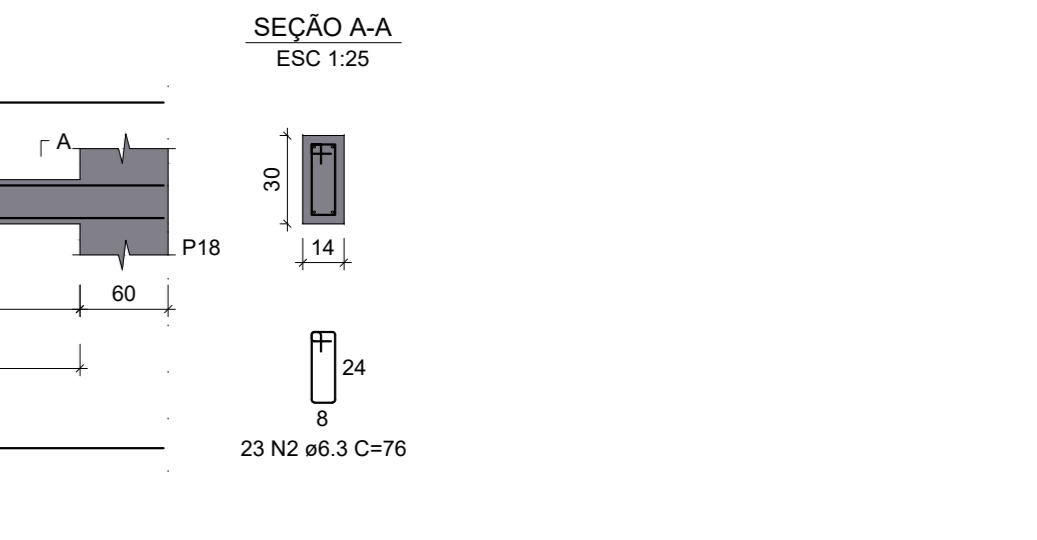
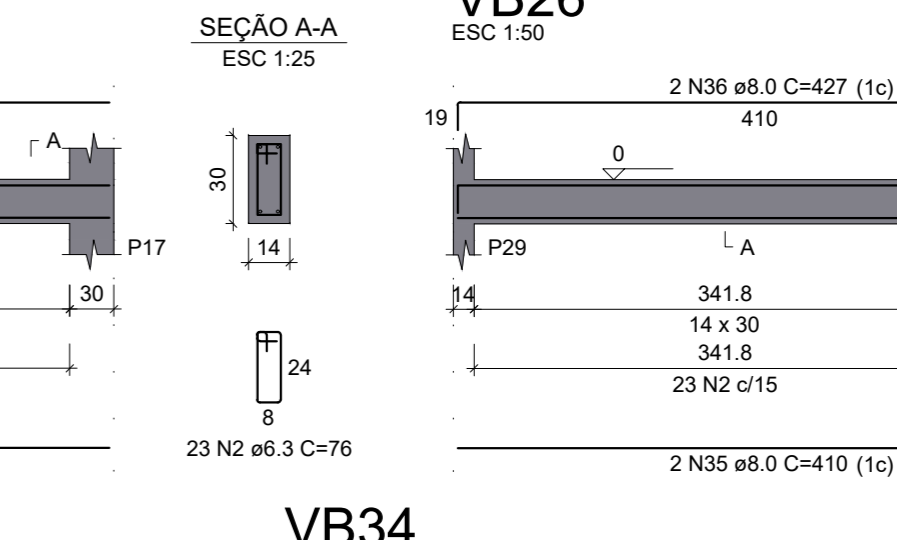
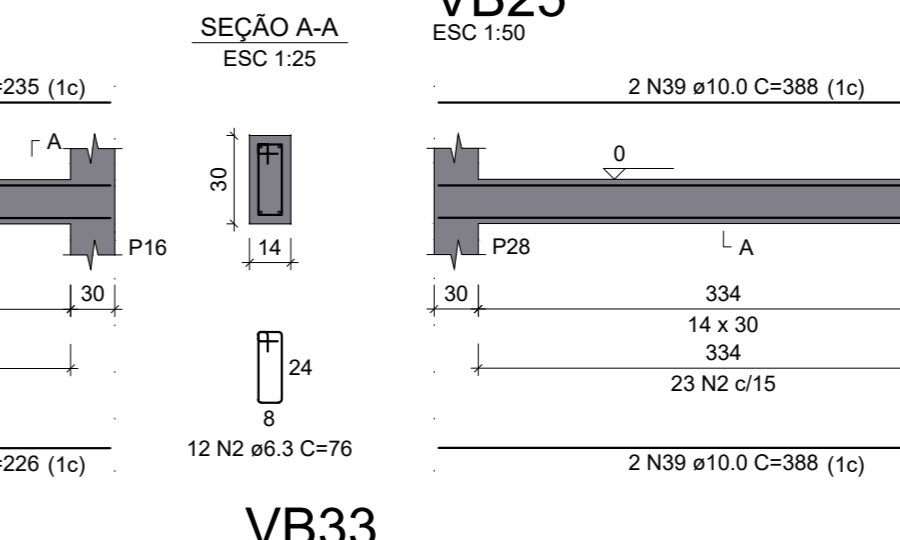
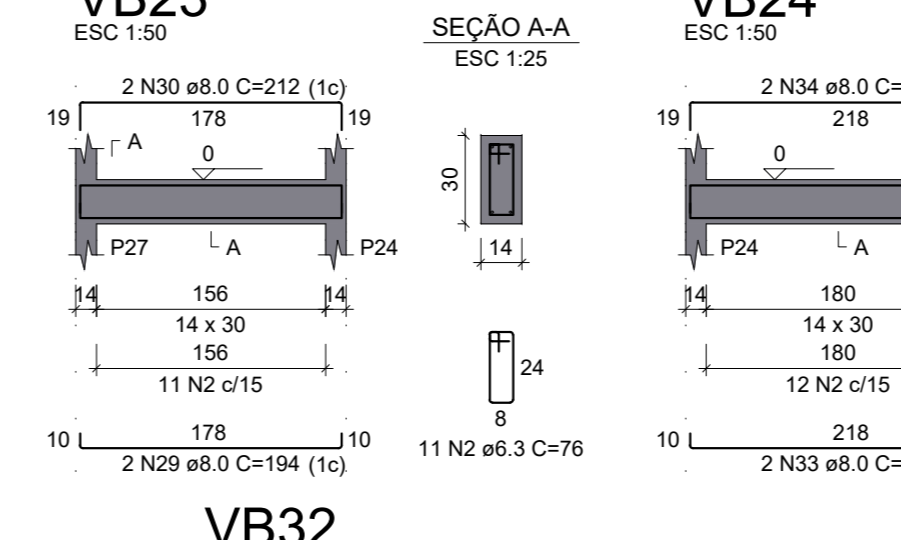
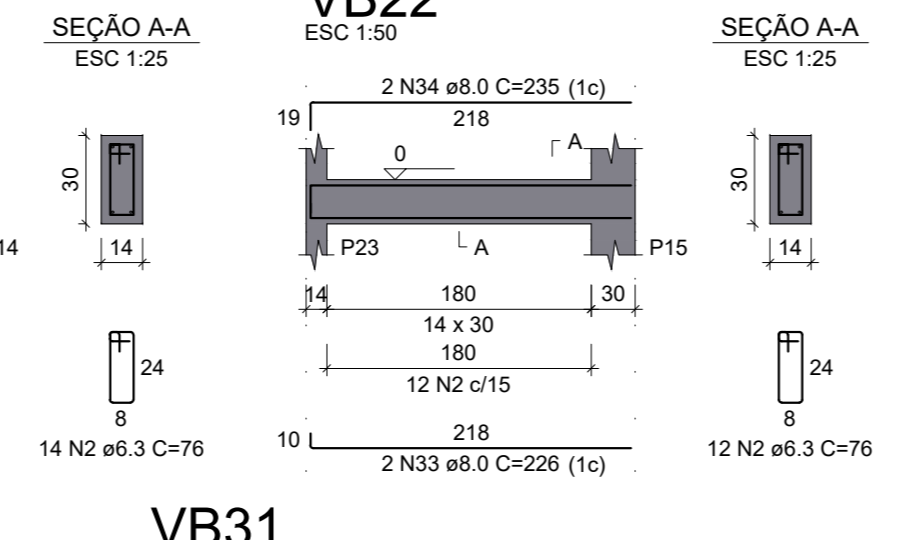
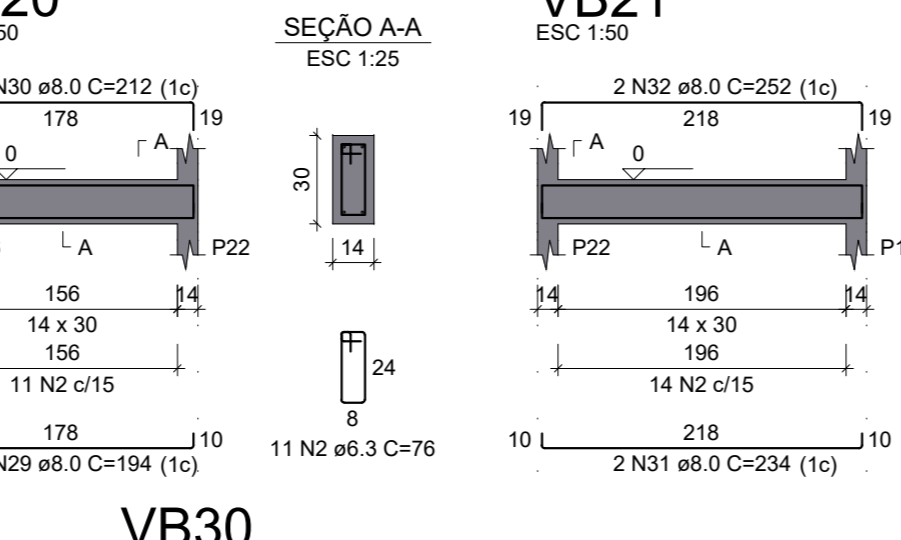
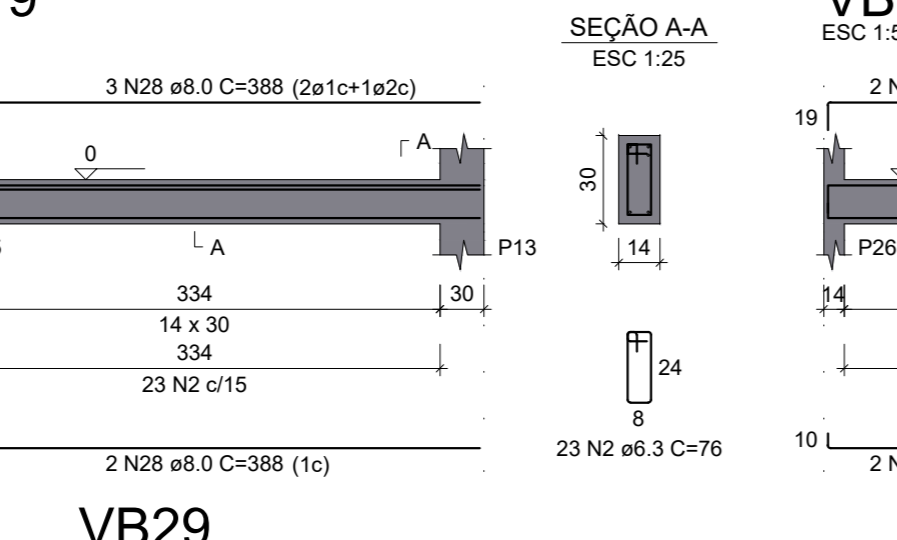
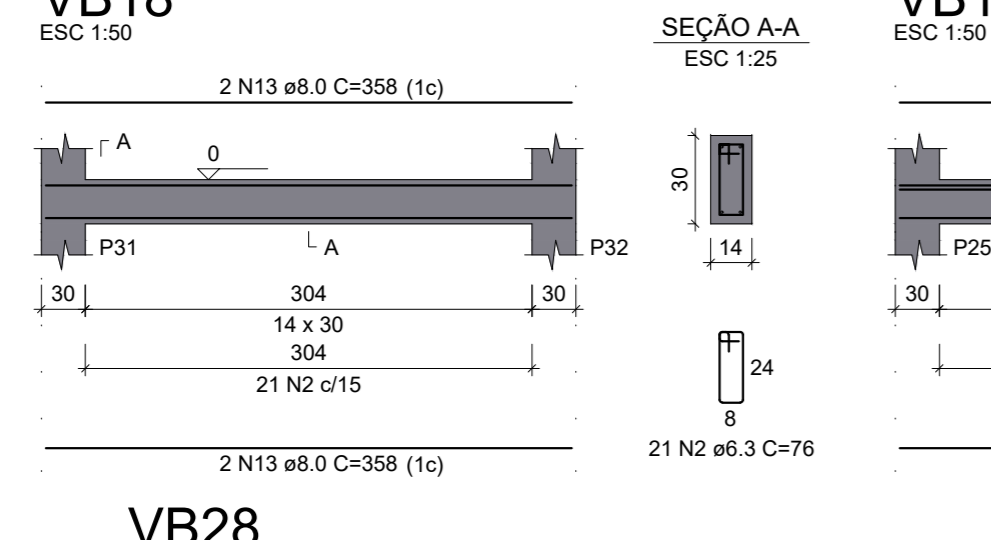
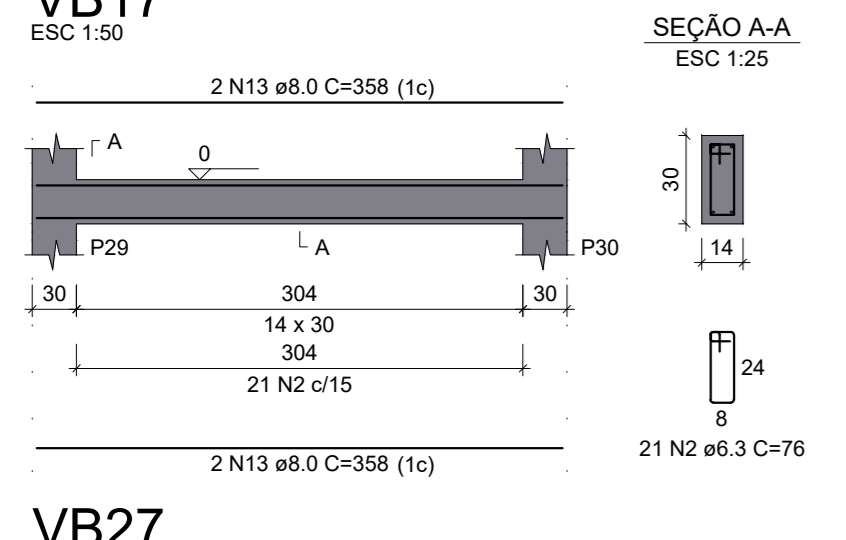
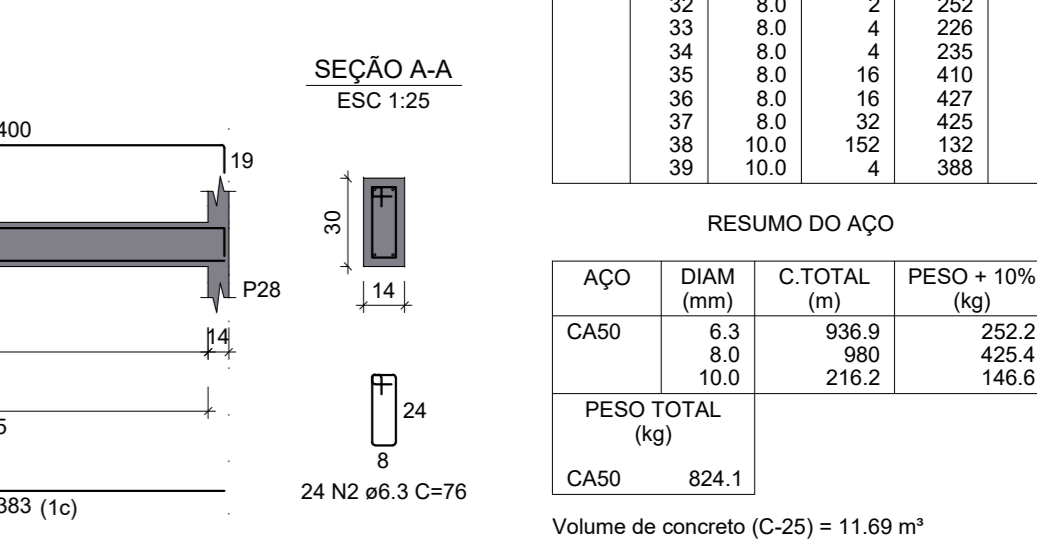
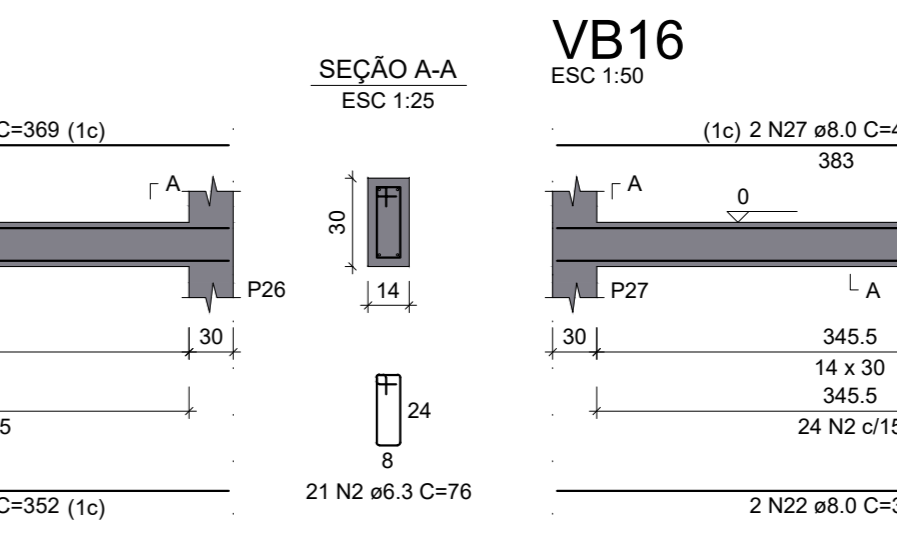
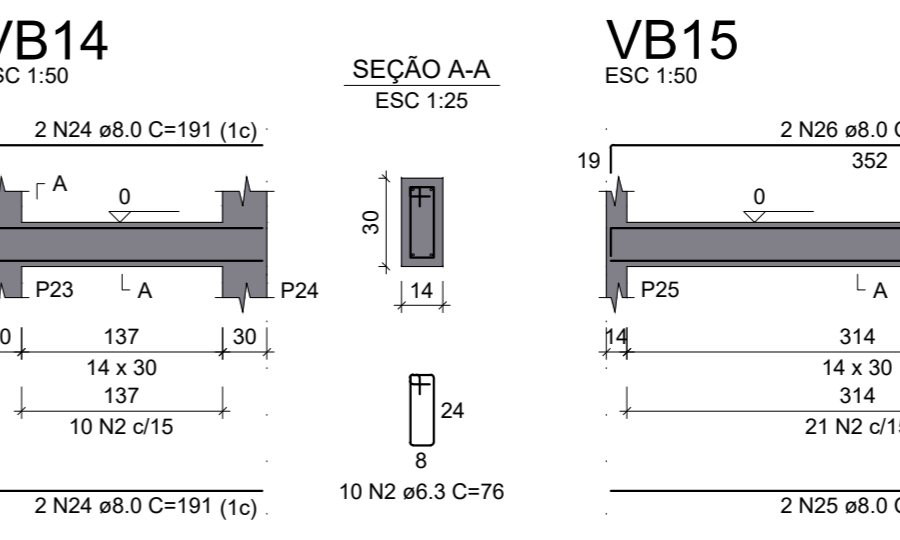
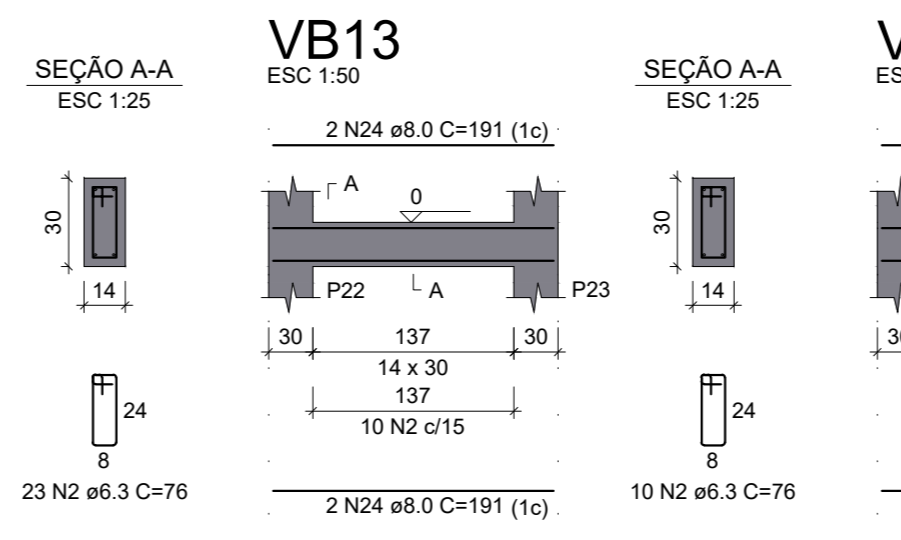
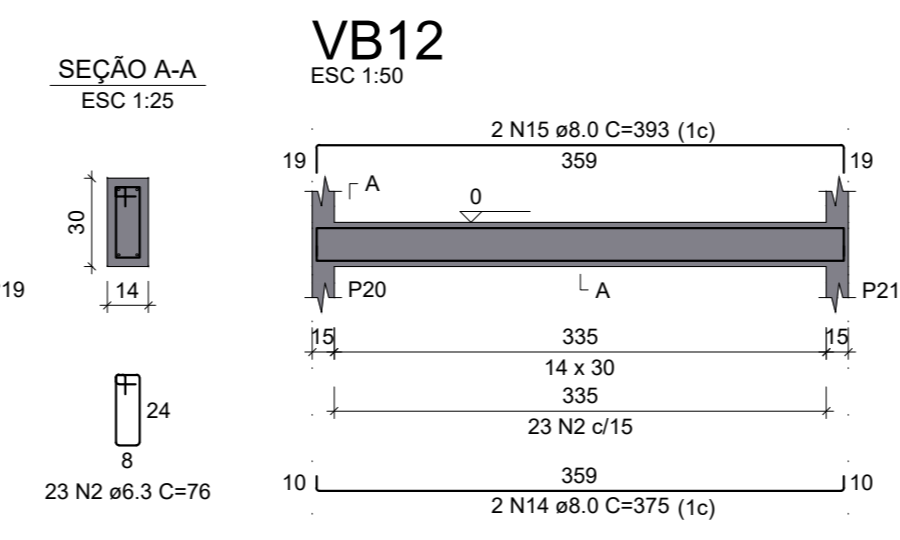
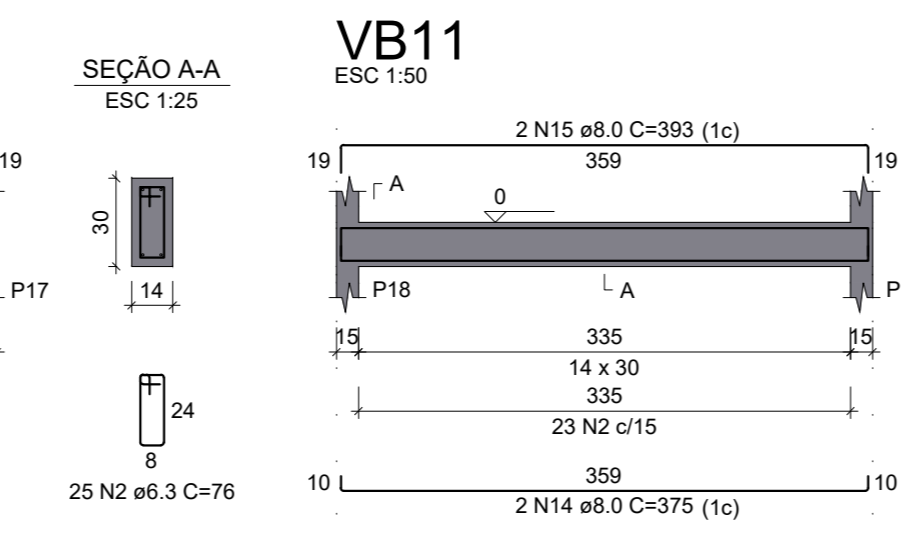
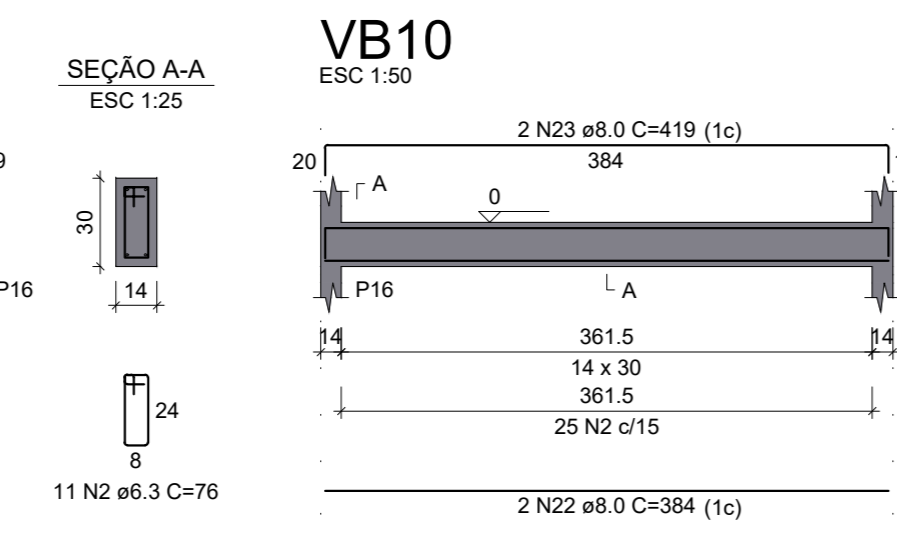
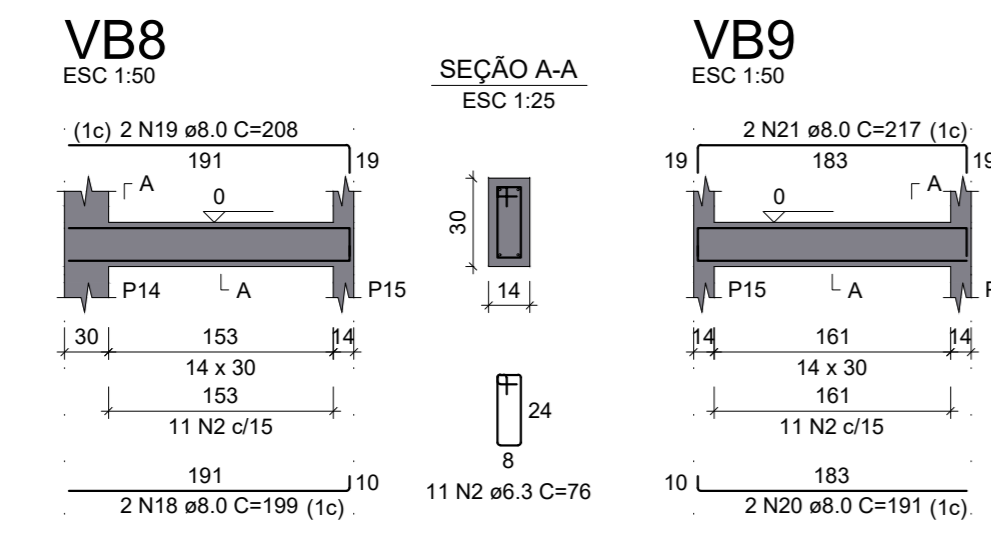
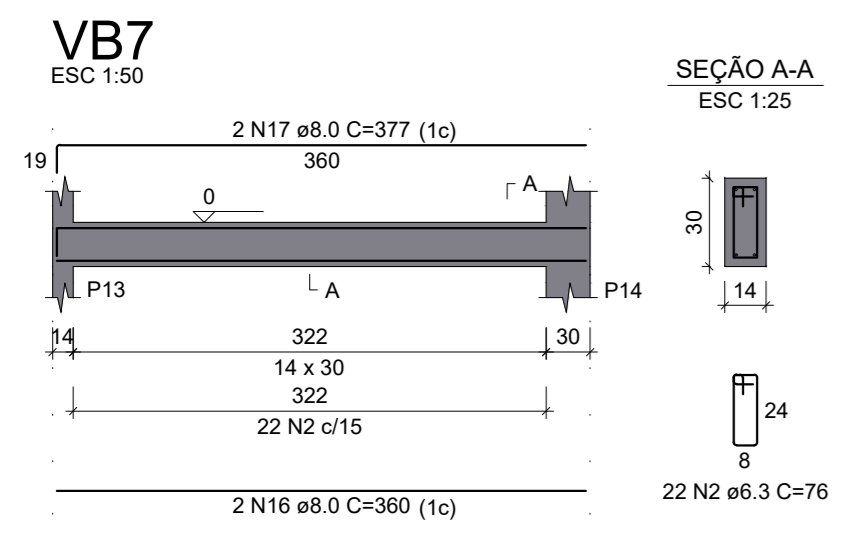
Positivo X	Positivo Y	Positivo Z
VB1	VB2	VB3
VB4	VB5	VB6
VB7	VB8	VB9
VB10	VB11	VB12
VB13	VB14	VB15
VB16	VB17	VB18
VB19	VB20	VB21
VB22	VB23	VB24
VB25	VB26	VB27
VB28	VB29	VB30
VB31	VB32	VB33
VB34	VB35	VB36
VB37	VB38	VB39
VB40	VB41	



RESUMO DO AÇO

CAISO	DIAM (mm)	C. TOTAL (cm)	PESO = 10% (kg)
CAISO	6.3	936.9	252.2
CAISO	8.0	345.5	424.4
CAISO	10.0	216.2	146.6
CAISO	824.1		

Volume de concreto (C-25) = 11.89 m³
 Área de forma = 159.02 m²



Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
G1	30.2x30.2	0	307
G2	30.2x30.2	0	307
G3	30.2x30.2	0	307
G4	30.2x30.2	0	307
G5	30.2x30.2	0	307
G6	30.2x30.2	0	307
G7	30.2x30.2	0	307
G8	30.2x30.2	0	307
G9	30.2x30.2	0	307
G10	30.2x30.2	0	307
G11	30.2x30.2	0	307
G12	30.2x30.2	0	307
G13	30.2x30.2	0	307
G14	30.2x30.2	0	307
G15	30.2x30.2	0	307
G16	30.2x30.2	0	307
G17	30.2x30.2	0	307
G18	30.2x30.2	0	307
G19	30.2x30.2	0	307
G20	30.2x30.2	0	307
G21	30.2x30.2	0	307
G22	30.2x30.2	0	307
G23	30.2x30.2	0	307
G24	30.2x30.2	0	307
G25	30.2x30.2	0	307
G26	30.2x30.2	0	307
G27	30.2x30.2	0	307
G28	30.2x30.2	0	307
G29	30.2x30.2	0	307
G30	30.2x30.2	0	307
G31	30.2x30.2	0	307
G32	30.2x30.2	0	307

Placas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	307
P2	14x30	0	307
P3	14x30	0	307
P4	14x30	0	307
P5	15x60	0	307
P6	15x60	0	307
P7	15x60	0	307
P8	15x60	0	307
P9	15x60	0	307
P10	15x60	0	307
P11	15x60	0	307
P12	15x60	0	307
P13	14x30	0	307
P14	14x30	0	307
P15	14x30	0	307
P16	14x30	0	307
P17	14x30	0	307
P18	15x60	0	307
P19	15x60	0	307
P20	15x60	0	307
P21	15x60	0	307
P22	14x30	0	307
P23	14x30	0	307
P24	14x30	0	307
P25	14x30	0	307
P26	14x30	0	307
P27	14x30	0	307
P28	14x30	0	307
P29	14x30	0	307
P30	14x30	0	307
P31	14x30	0	307
P32	14x30	0	307

Legenda das vigas e paredes

- Vigas
- Vigas genéricas
- Paredes
- Paredes genéricas

Características dos materiais

Material	Classe	ρ (kg/cm³)	f _{td} (kgf/cm²)
Concreto	C-25	24.500	24.500
Aço	A-50	78.500	50.000

Dimensão máxima do agregado = 19 mm

1. ESTE PROJETO É PROPRIEDADE DO PROJETISTA REGISTRADO NO SELO, CONFORME Lei n.º 5.196/66 NÃO DEVE SER UTILIZADO PARA QUALQUER OUTRA FINALIDADE QUE NÃO SE RELACIONE COM A EXECUÇÃO DA PRESENTE UTILIZAÇÃO, SENDO TERMINANTEMENTE VEJADA SUA COLOCAÇÃO A DISPOSIÇÃO DE TERCEIROS;

2. O PROJETISTA NÃO SE RESPONSABILIZARÁ POR EVENTUAIS ALTERAÇÕES DESTES PROJETO DURANTE SUA EXECUÇÃO, QUALQUER MODIFICAÇÃO, O MESMO DEVE SER CONTACTADO.

3. ESTE PROJETO FORNECE INFORMAÇÕES DE BASE PARA O LAYOUT E INFORMAÇÕES FORNECIDAS POR ARQUITETO OU PROPRIETÁRIO.

4. QUALQUER MODIFICAÇÃO OU DÚVIDA DEVERÁ SER IMEDIATAMENTE COMUNICADA POR ESCRITO AO PROJETISTA.

Agência Orça | Engenharia Civil - Custos
 Avenida das Embaixas, nº 622 - Sala 03, Setor Comercial, Smap/It.
 (61) 9990-3345
 robon.orcama@gmail.com

PROJETO DE URBANIZAÇÃO
 PRAÇA DOS MIGRANTES, CLAUDIA - MT, CEP: 78940-000

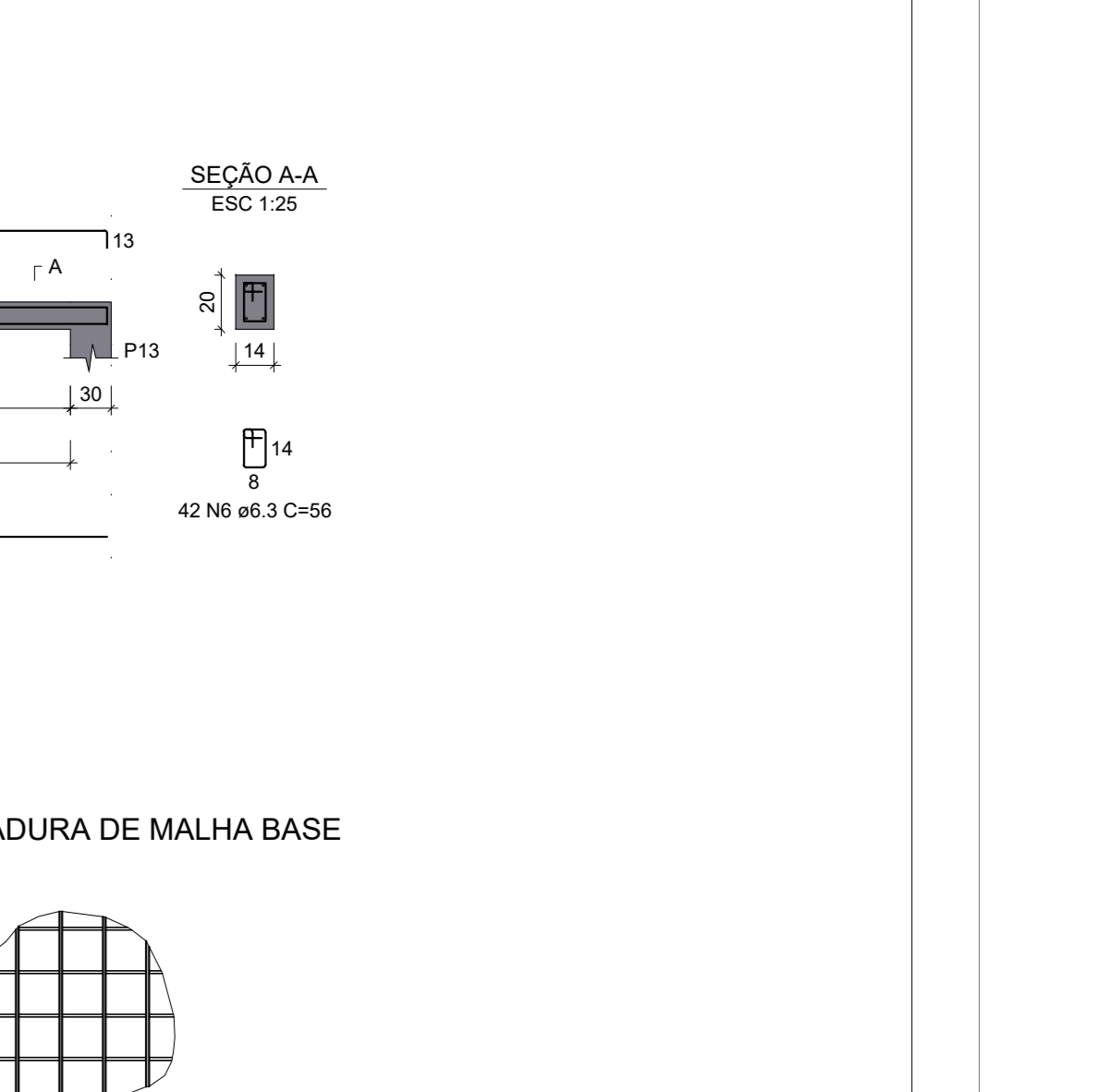
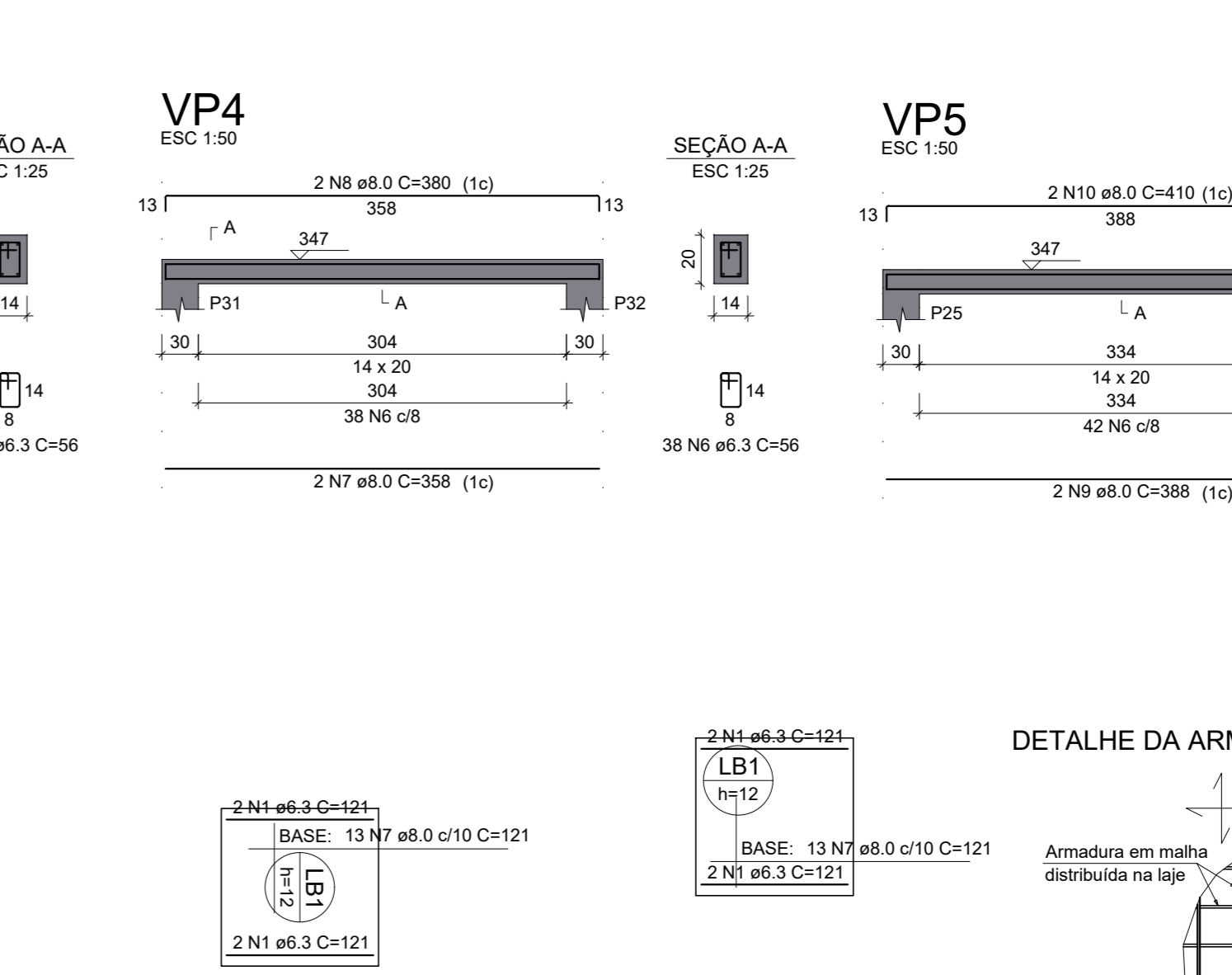
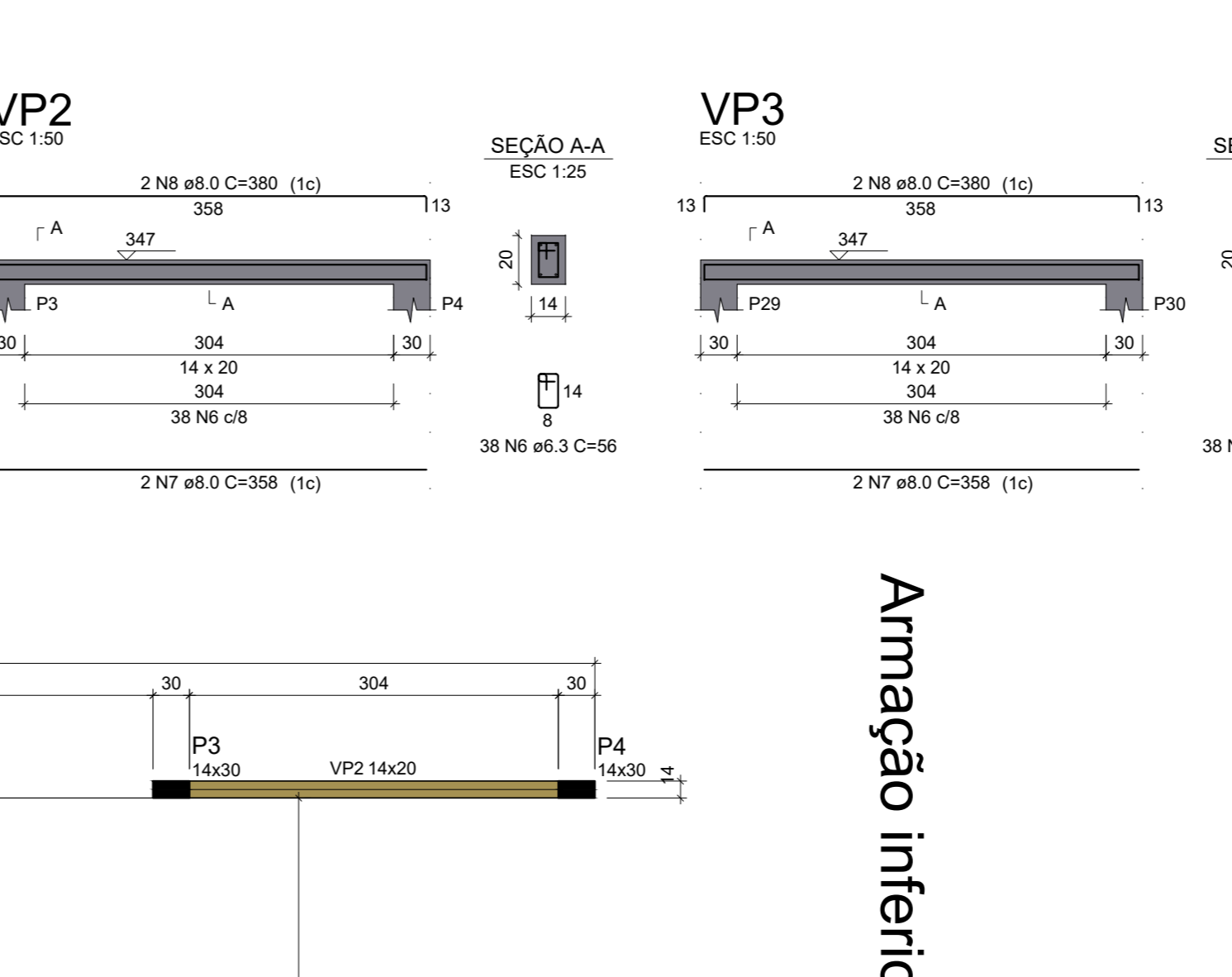
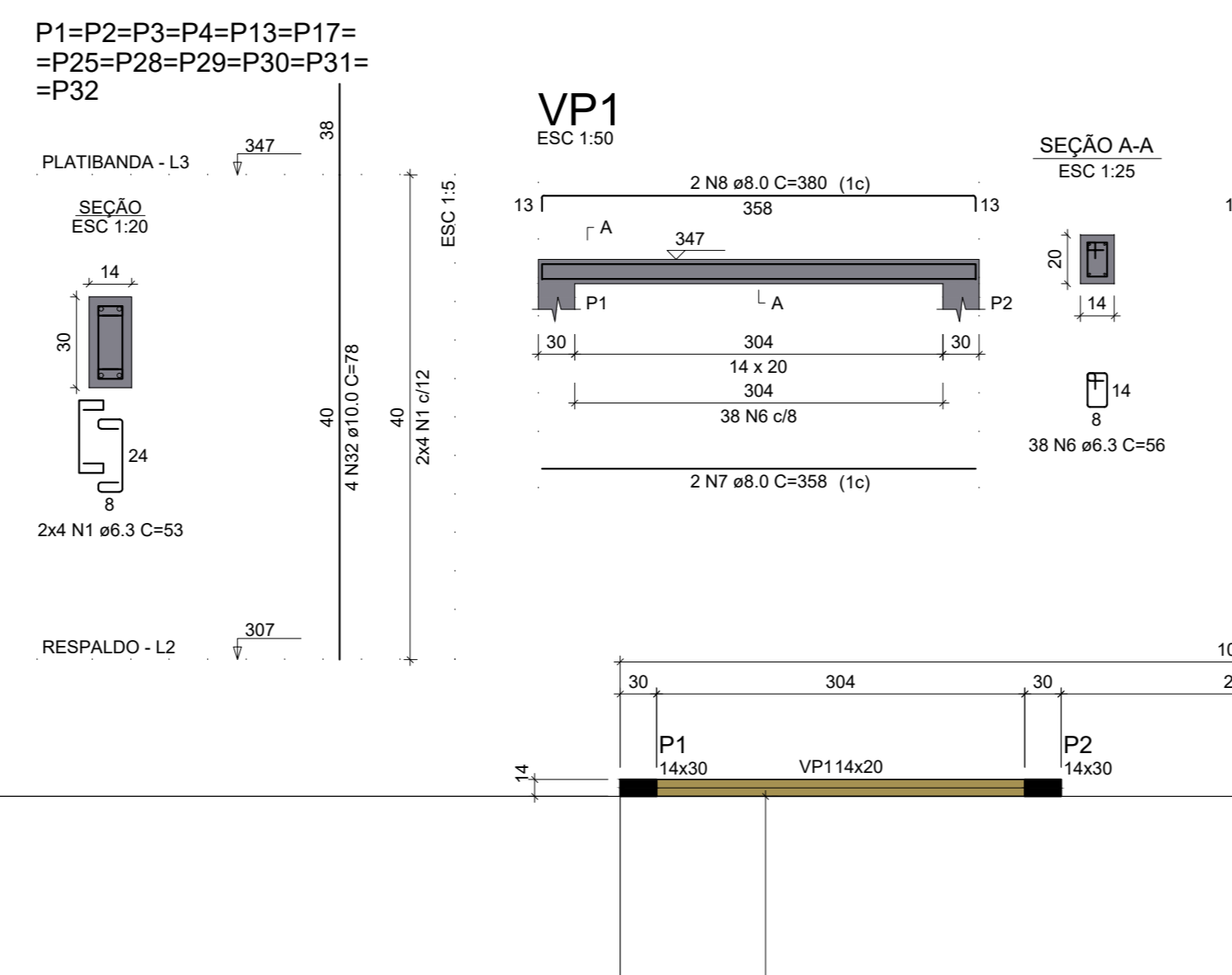
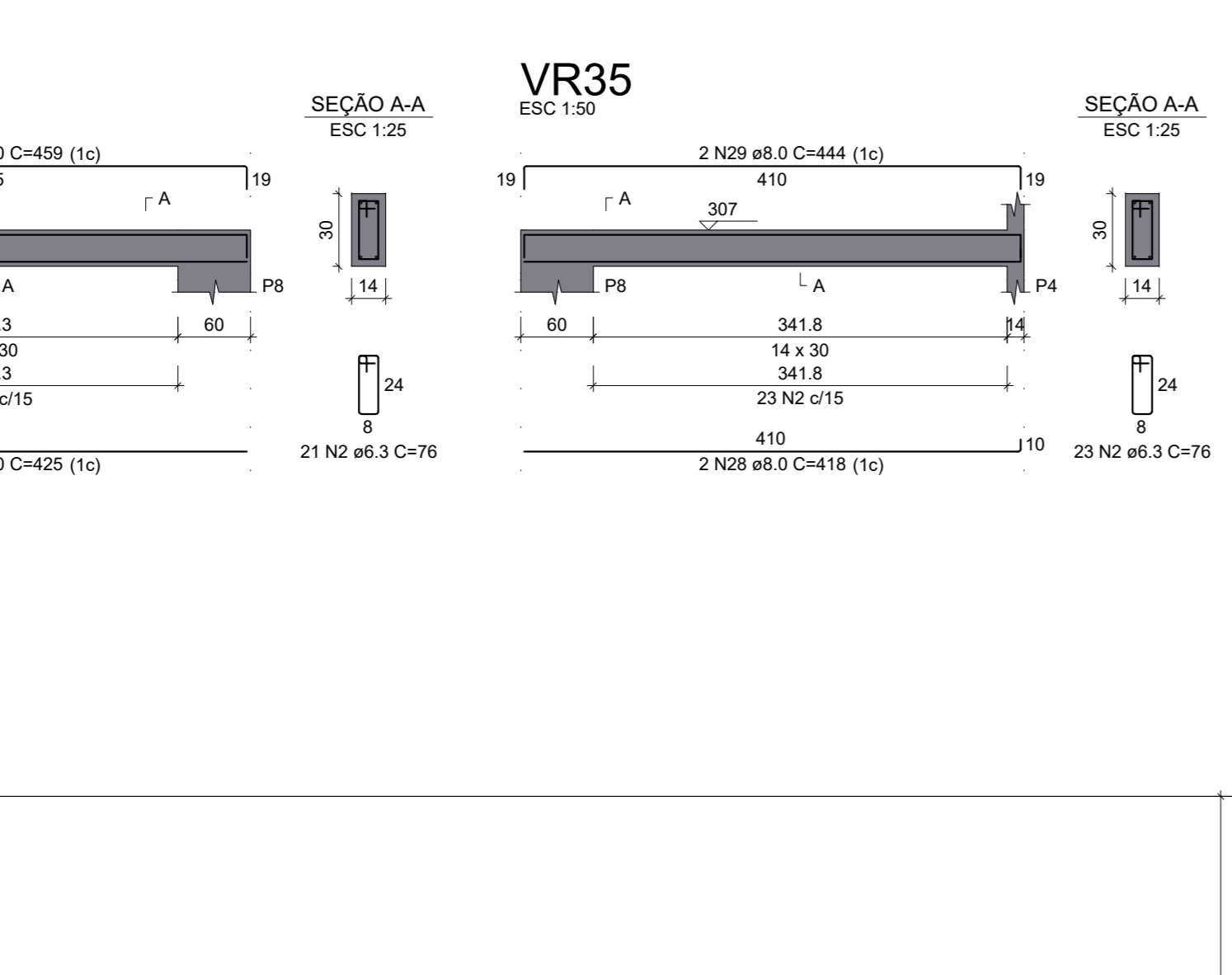
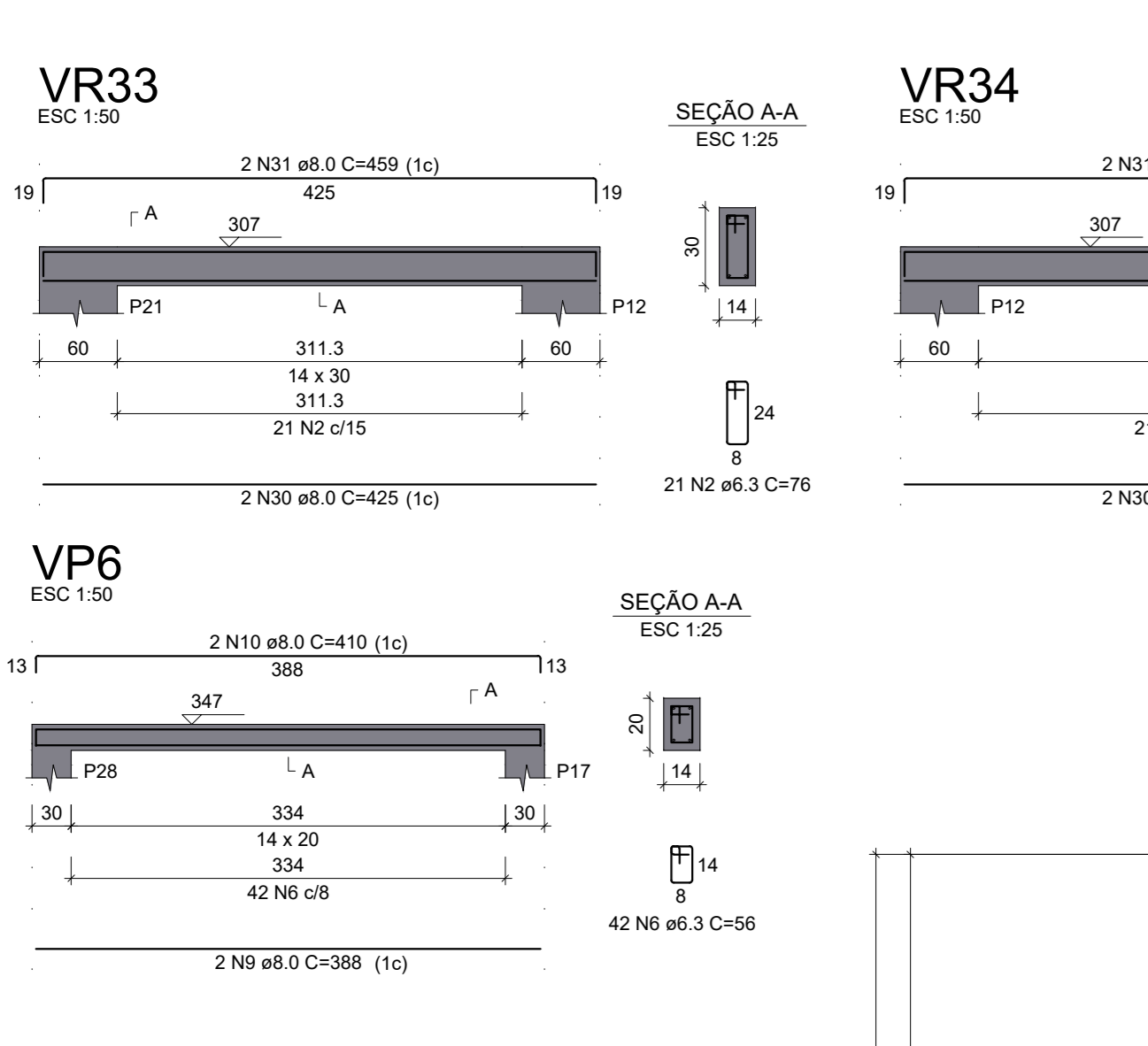
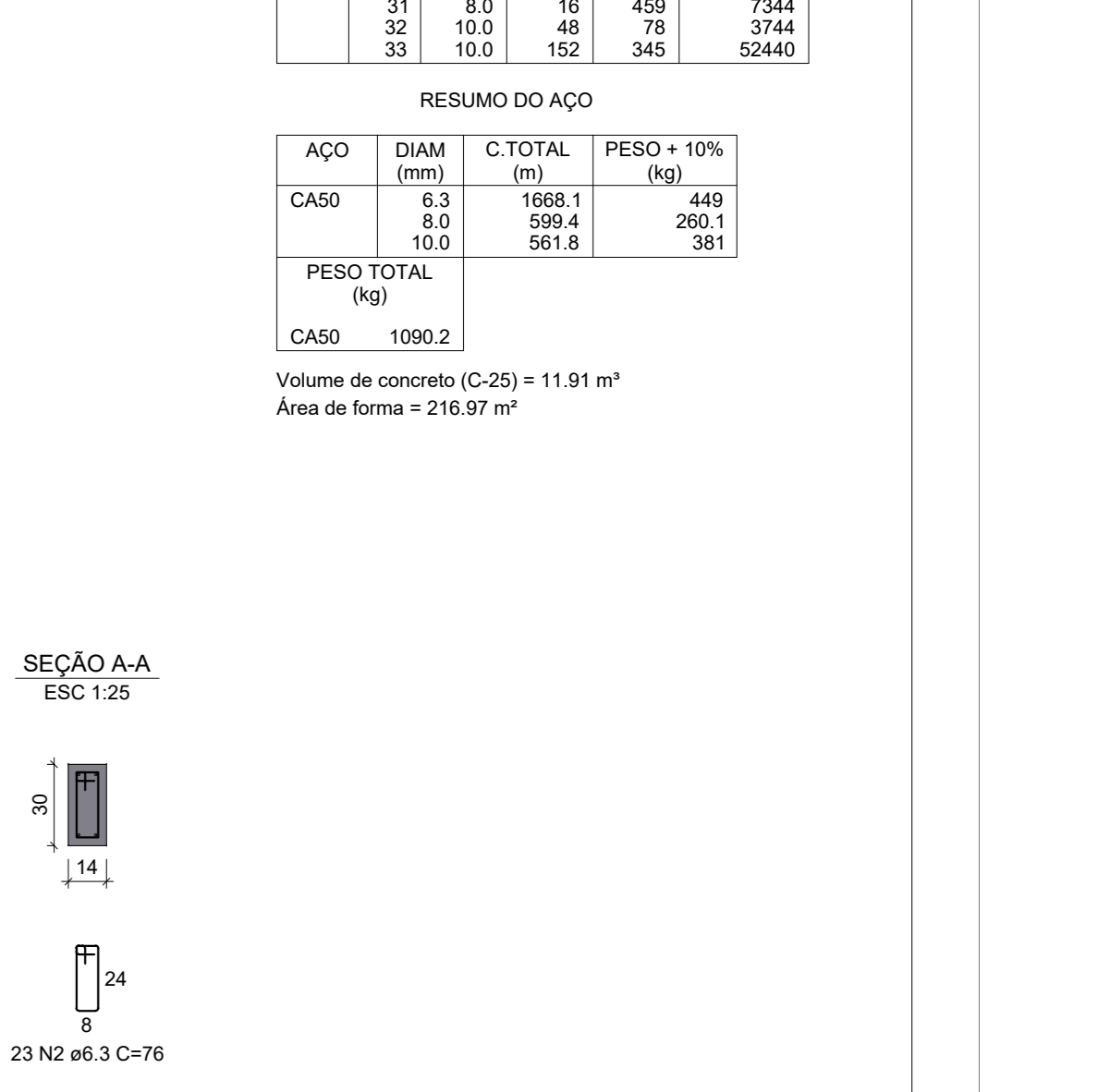
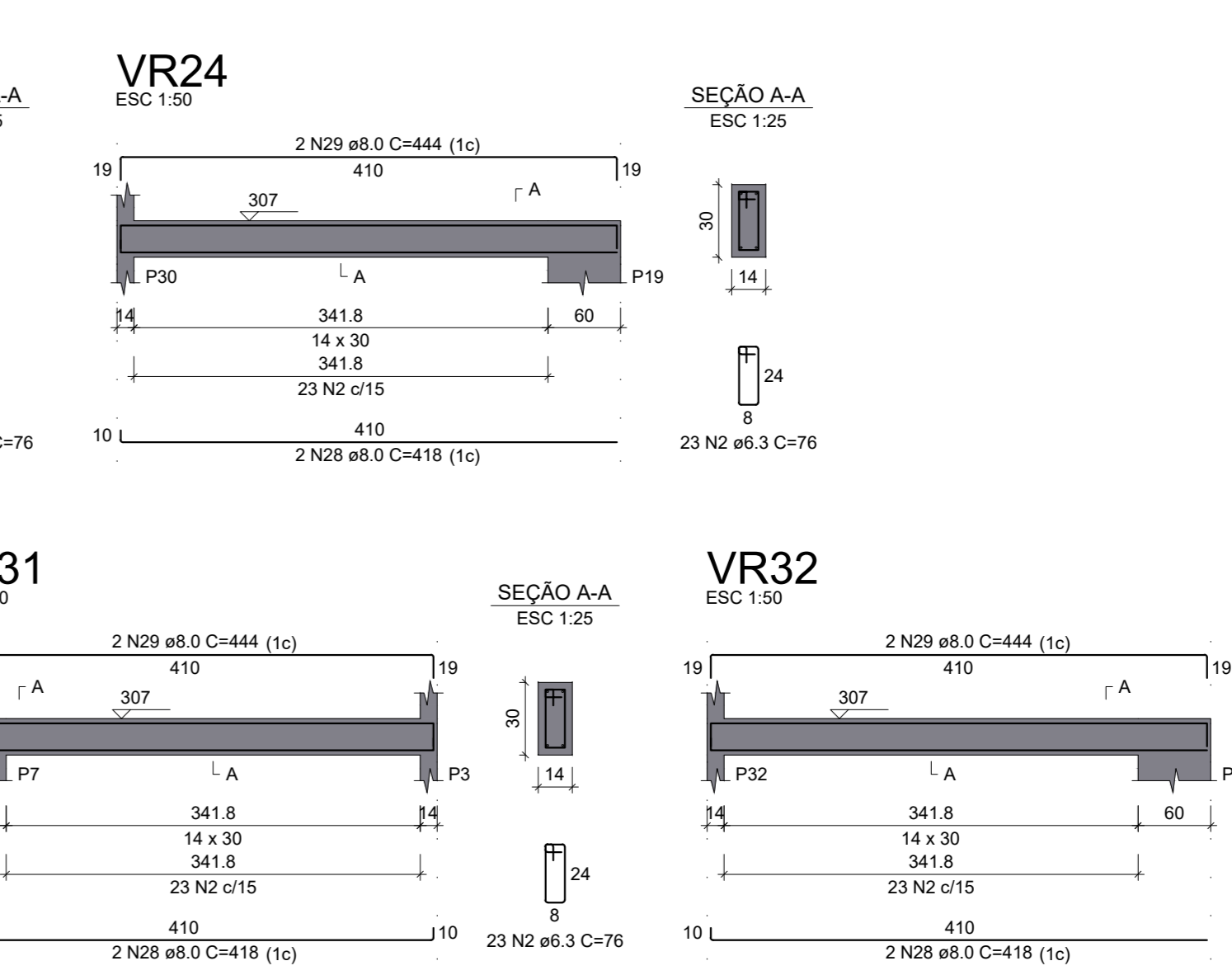
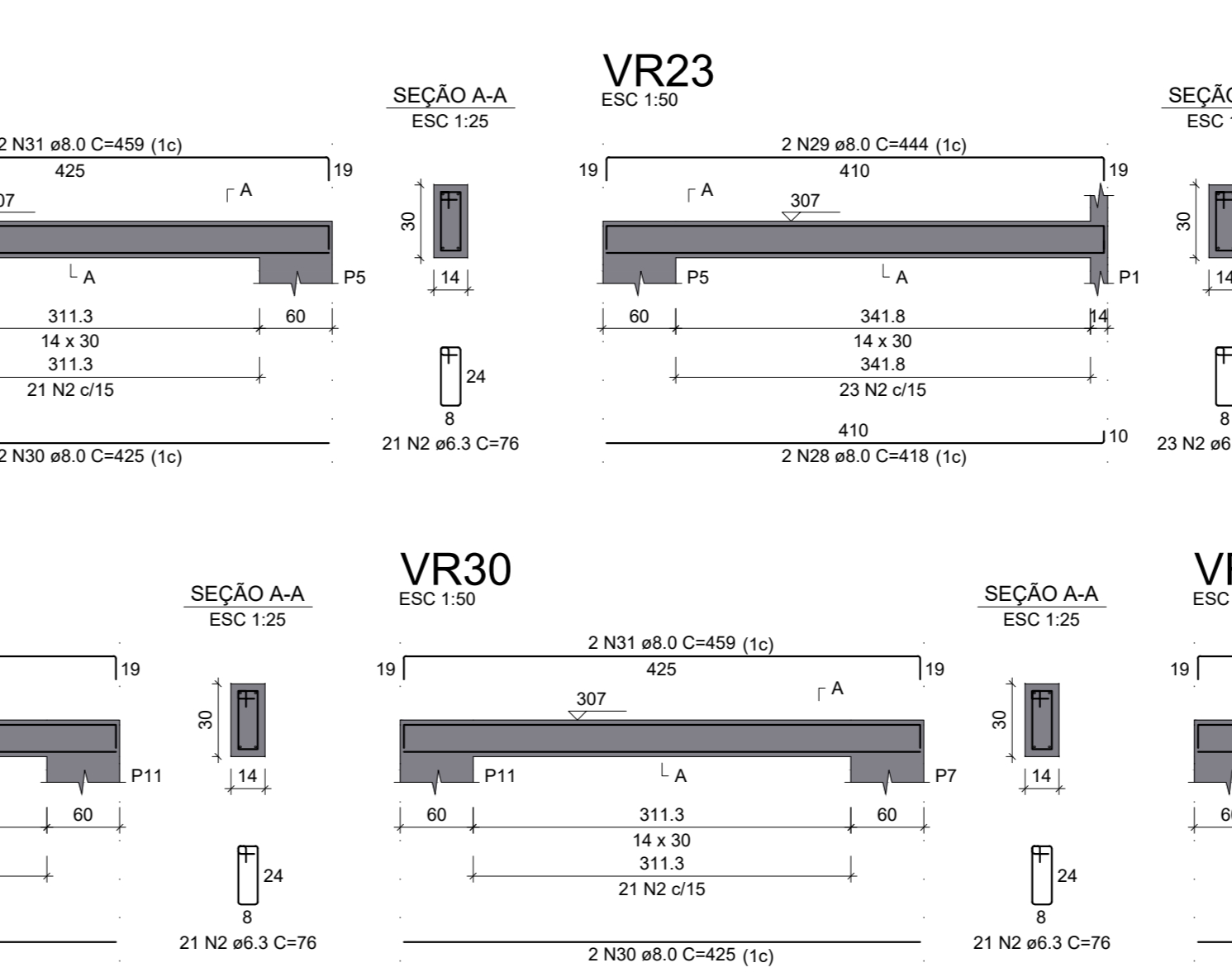
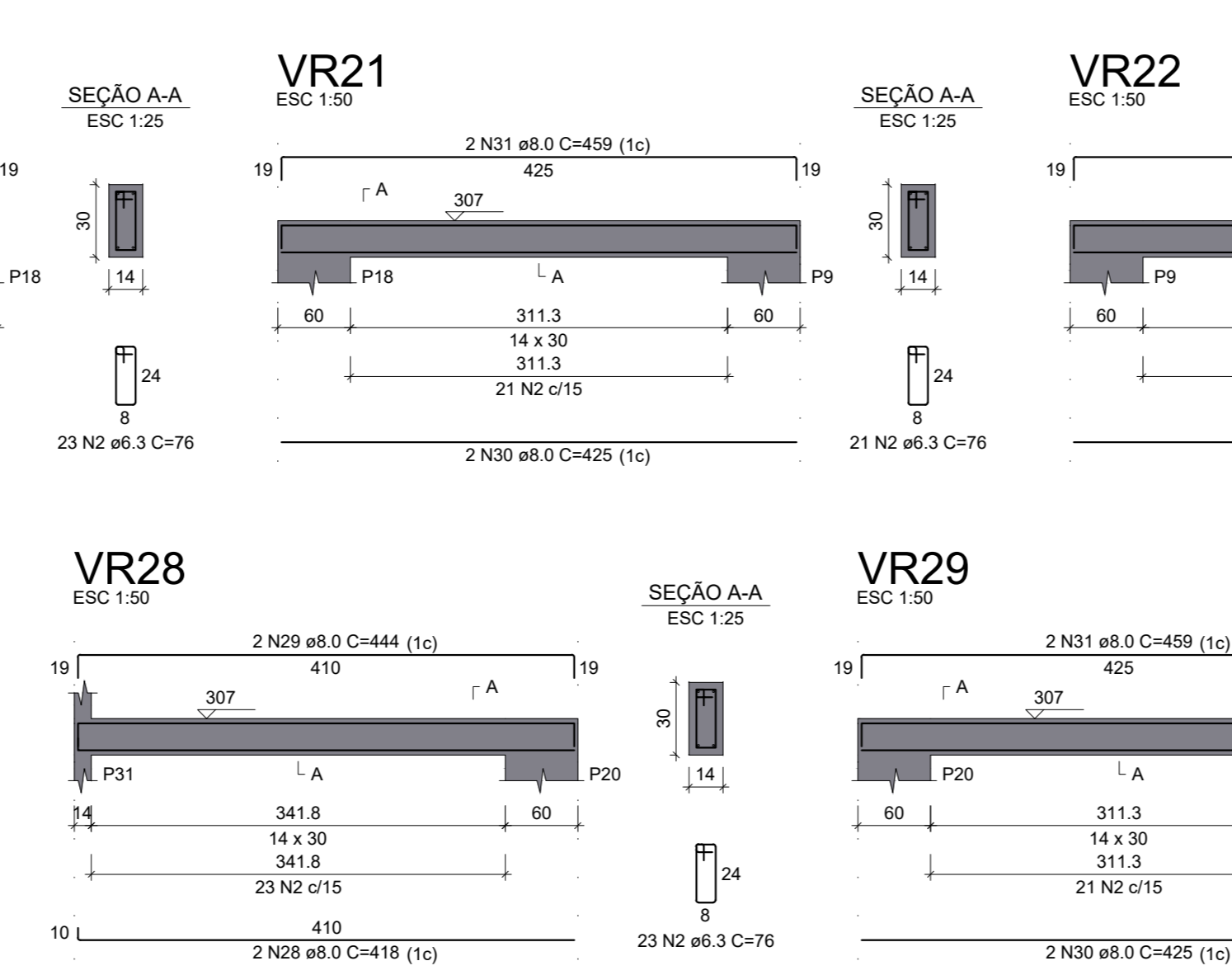
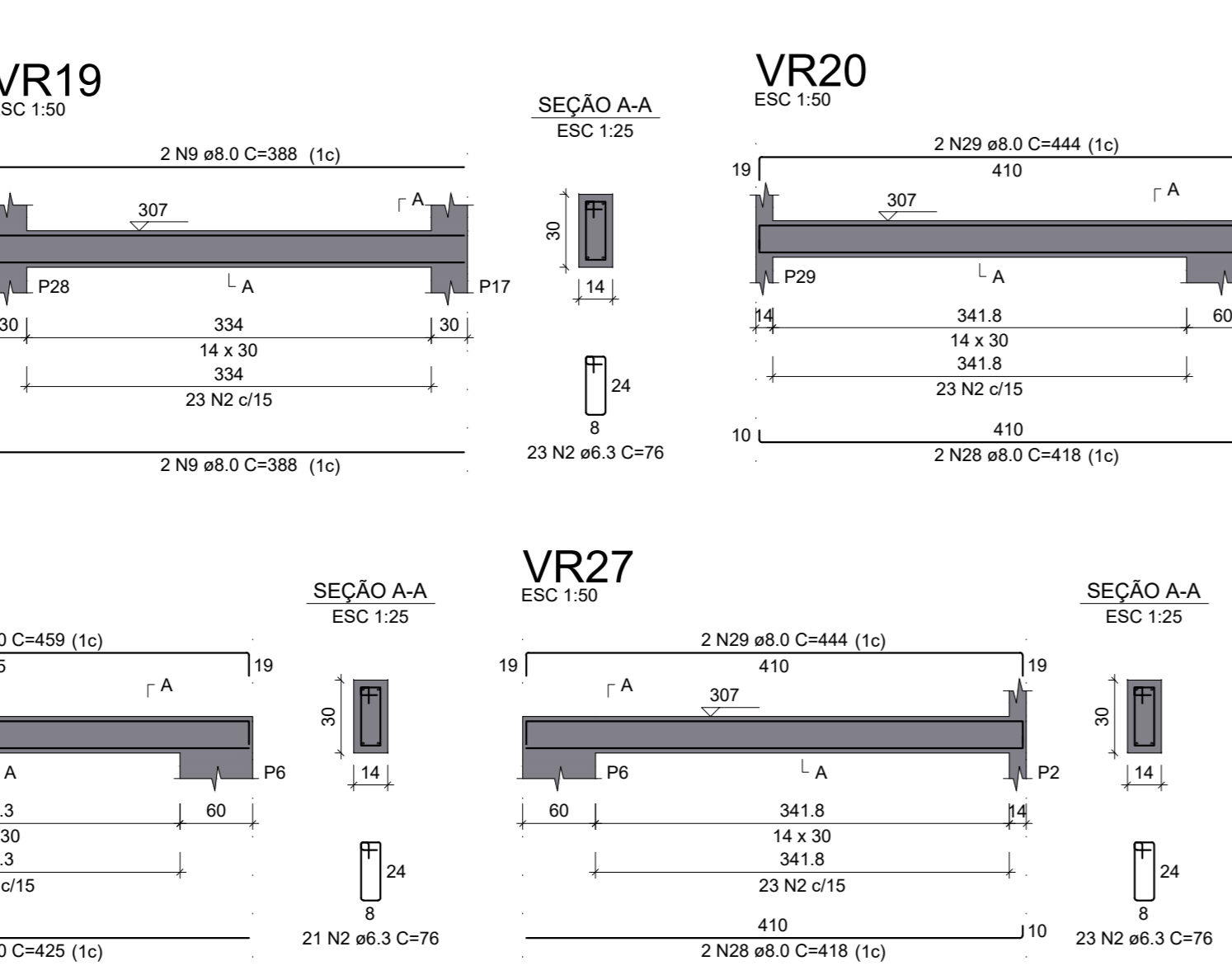
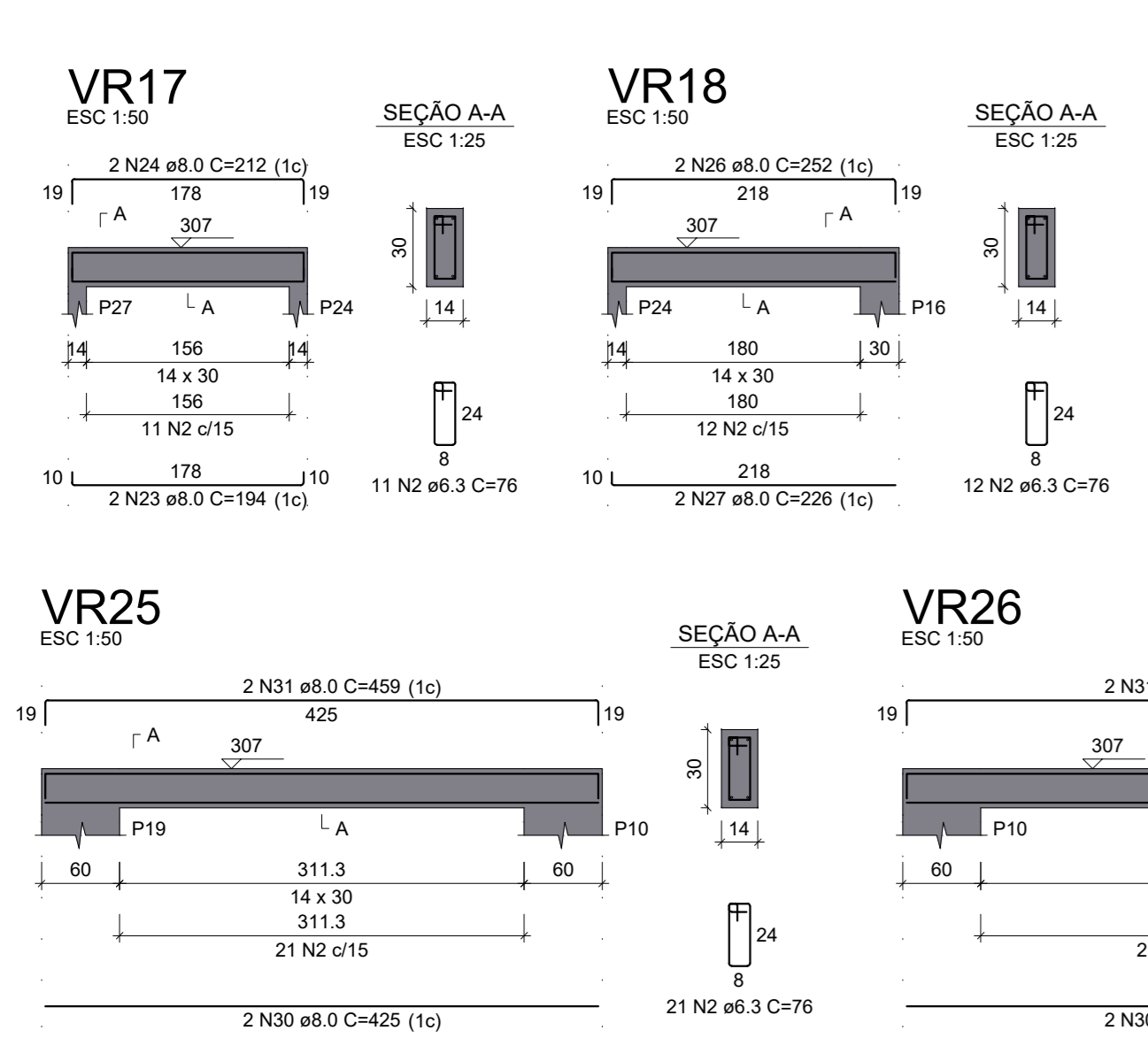
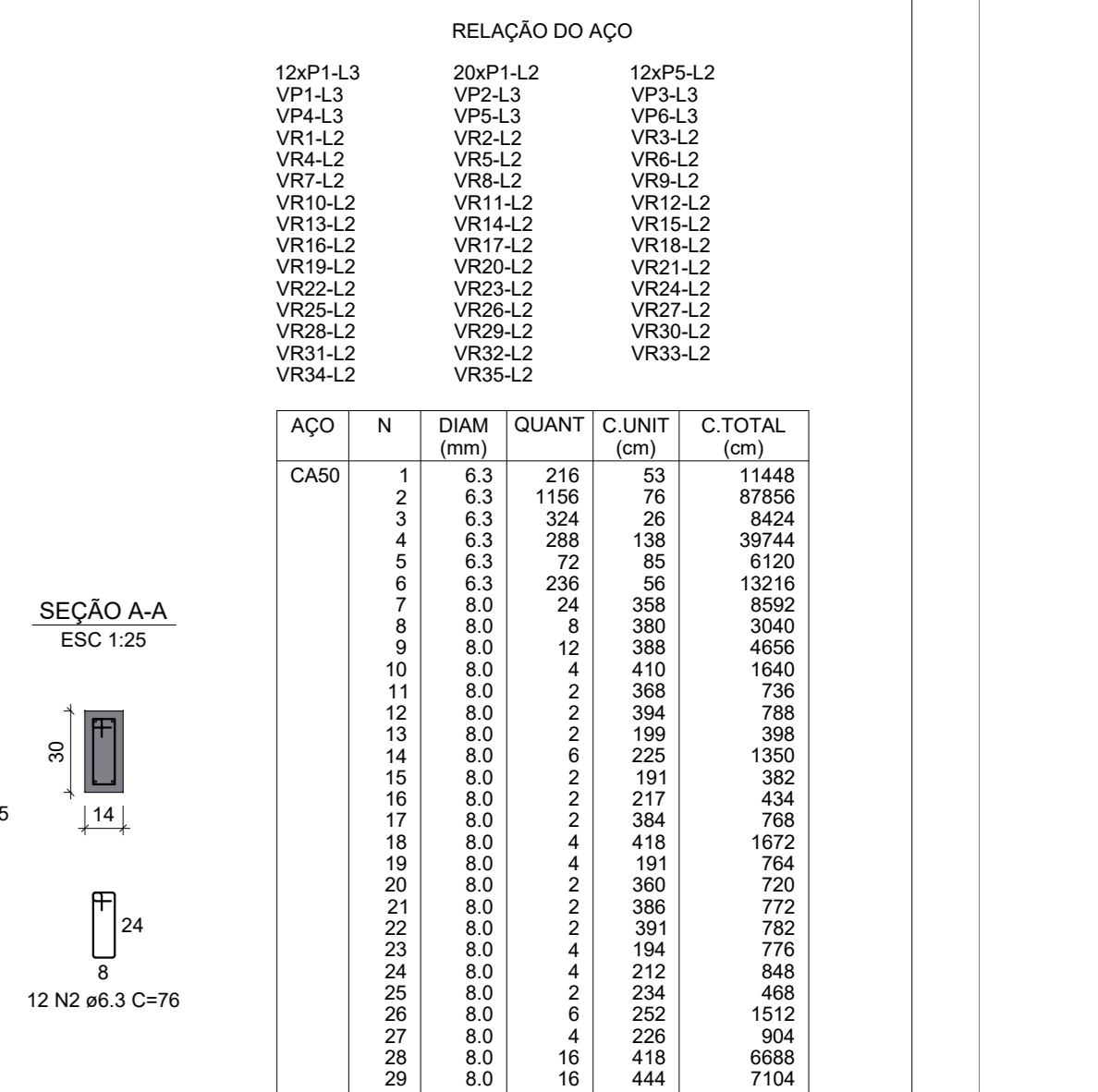
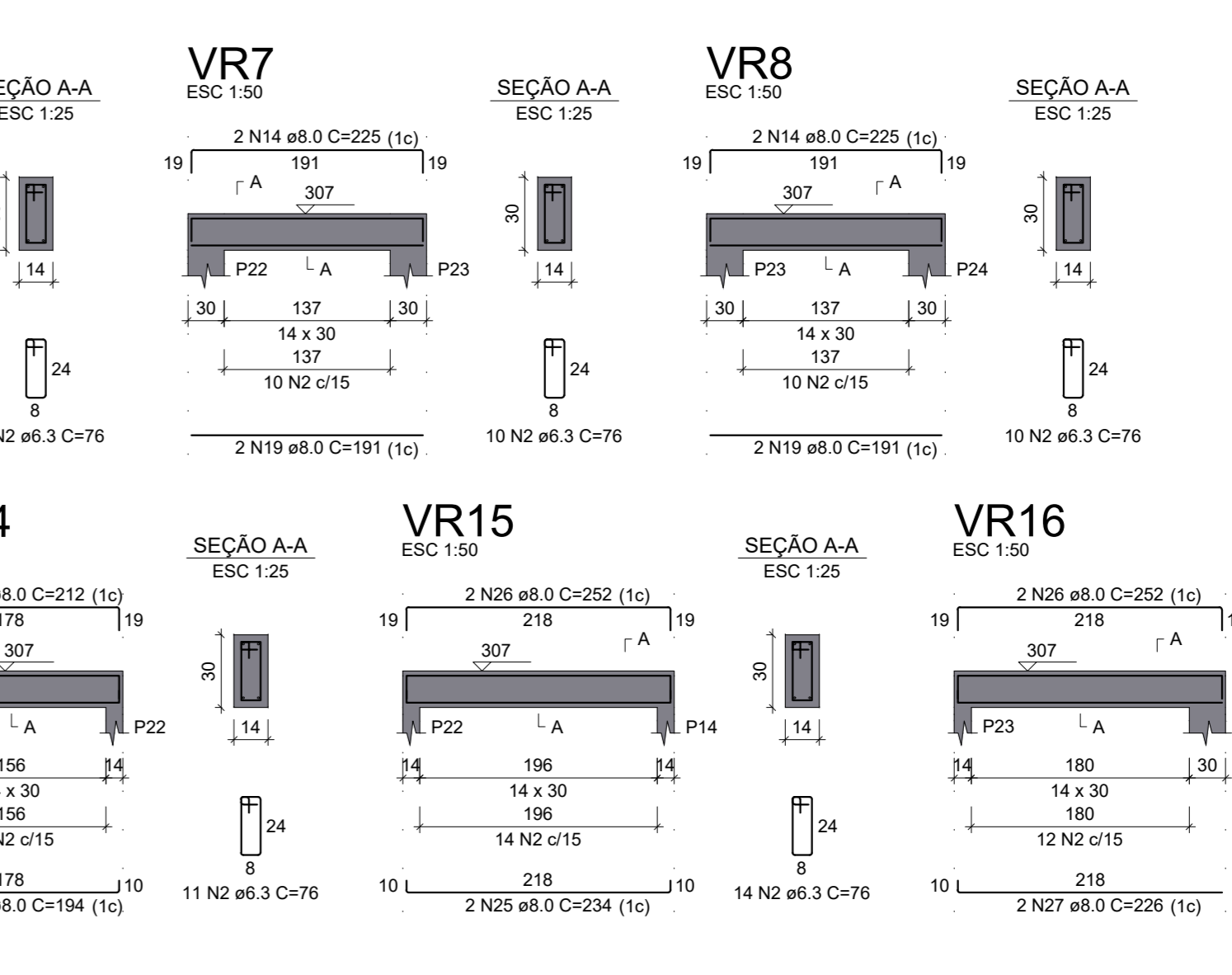
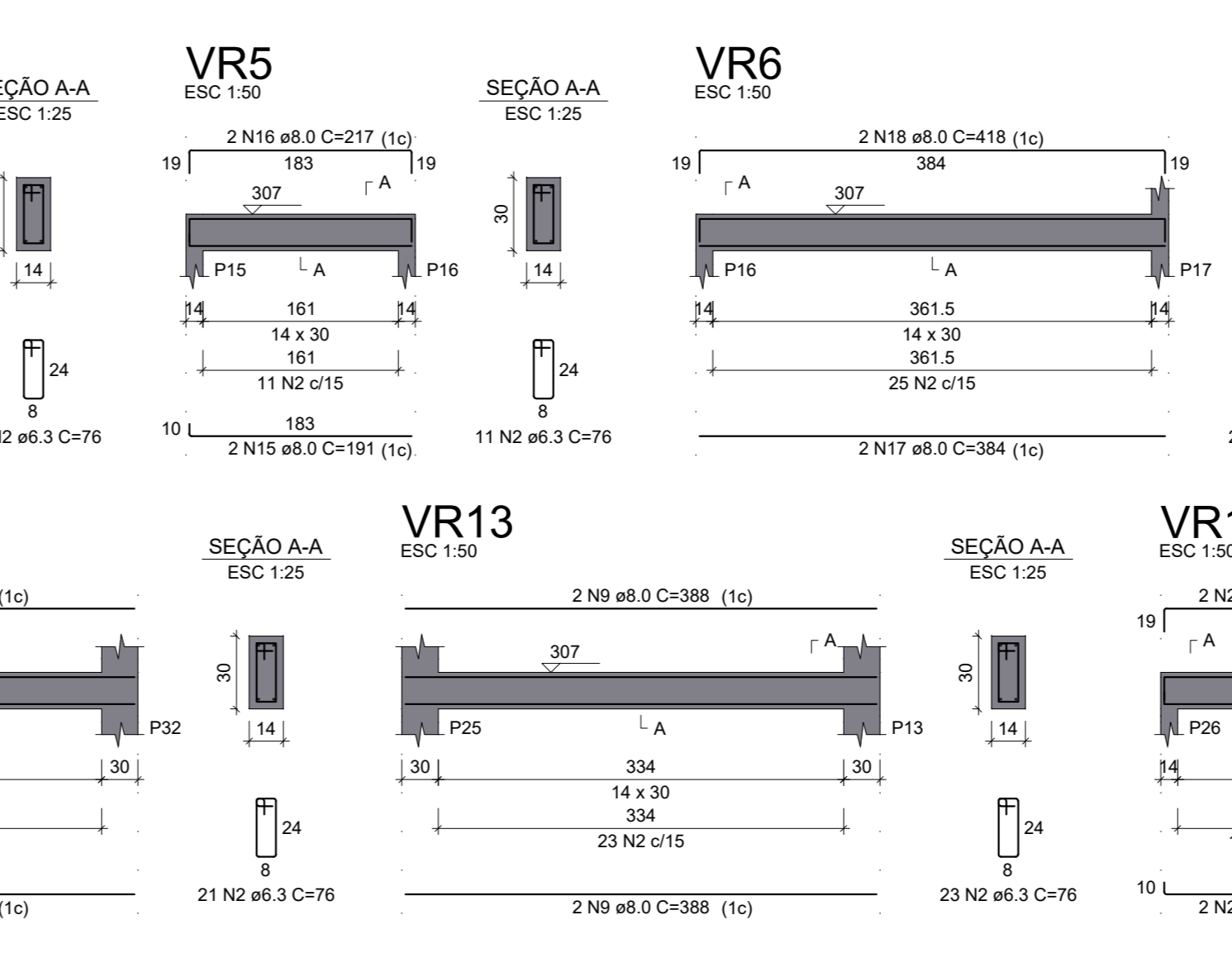
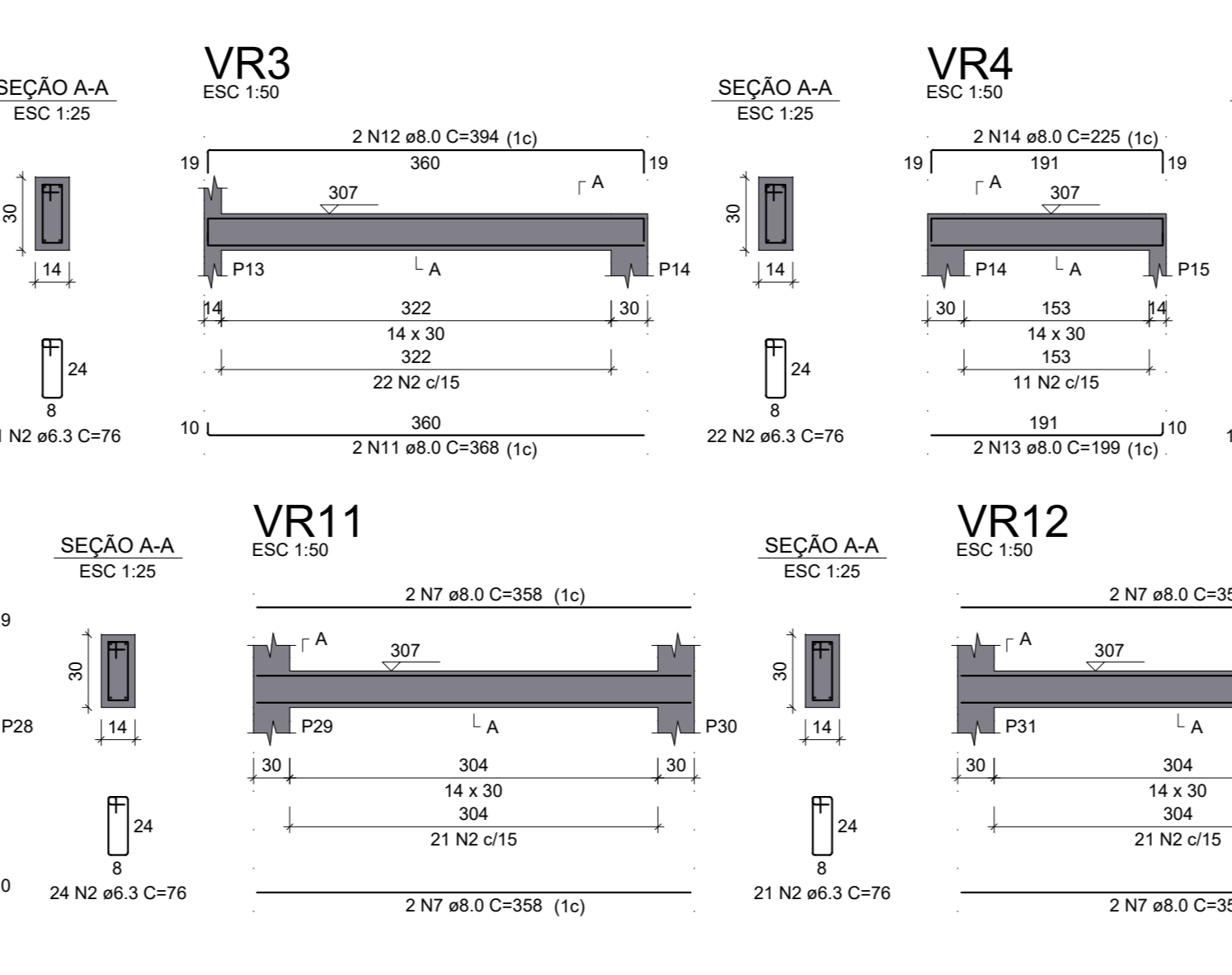
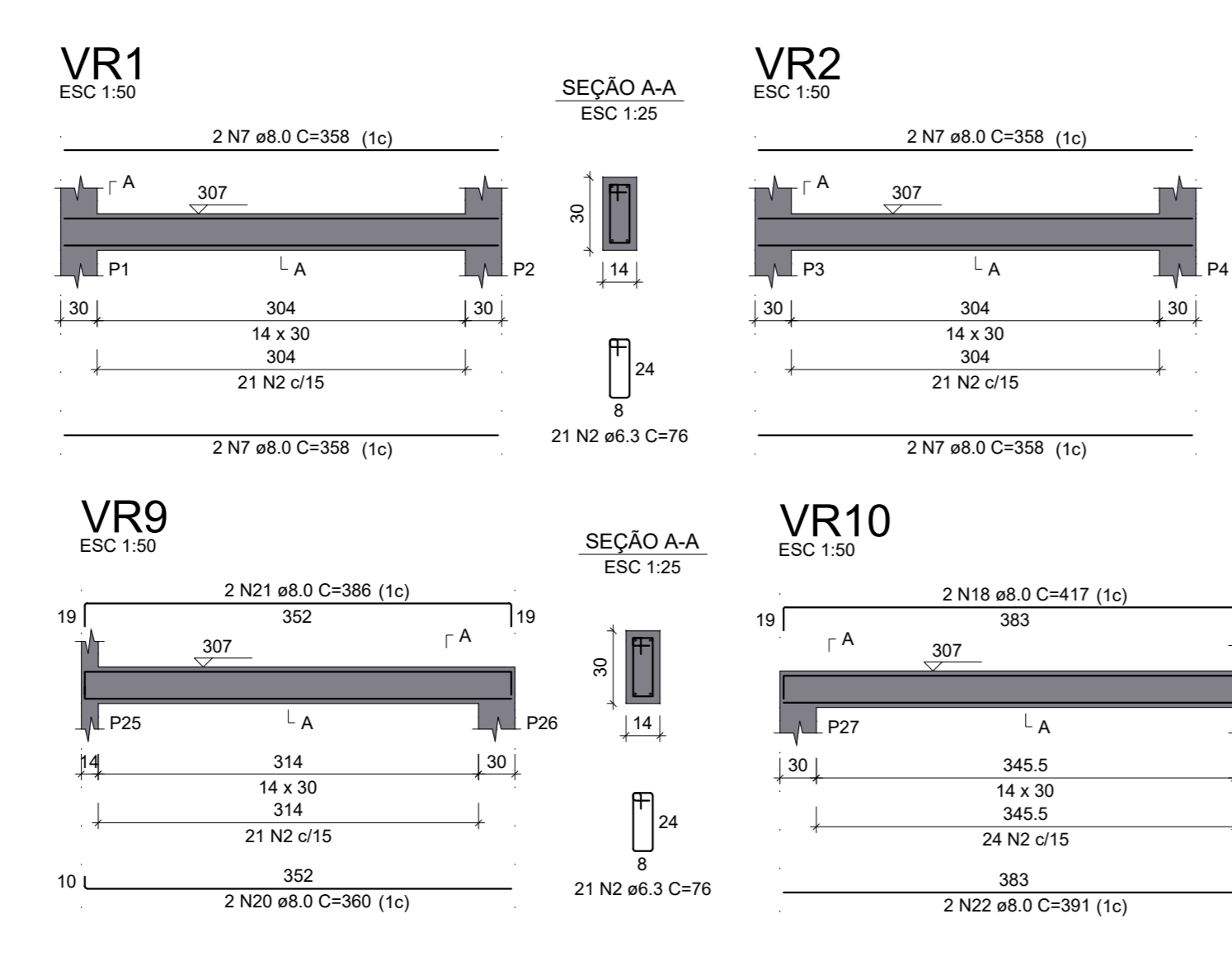
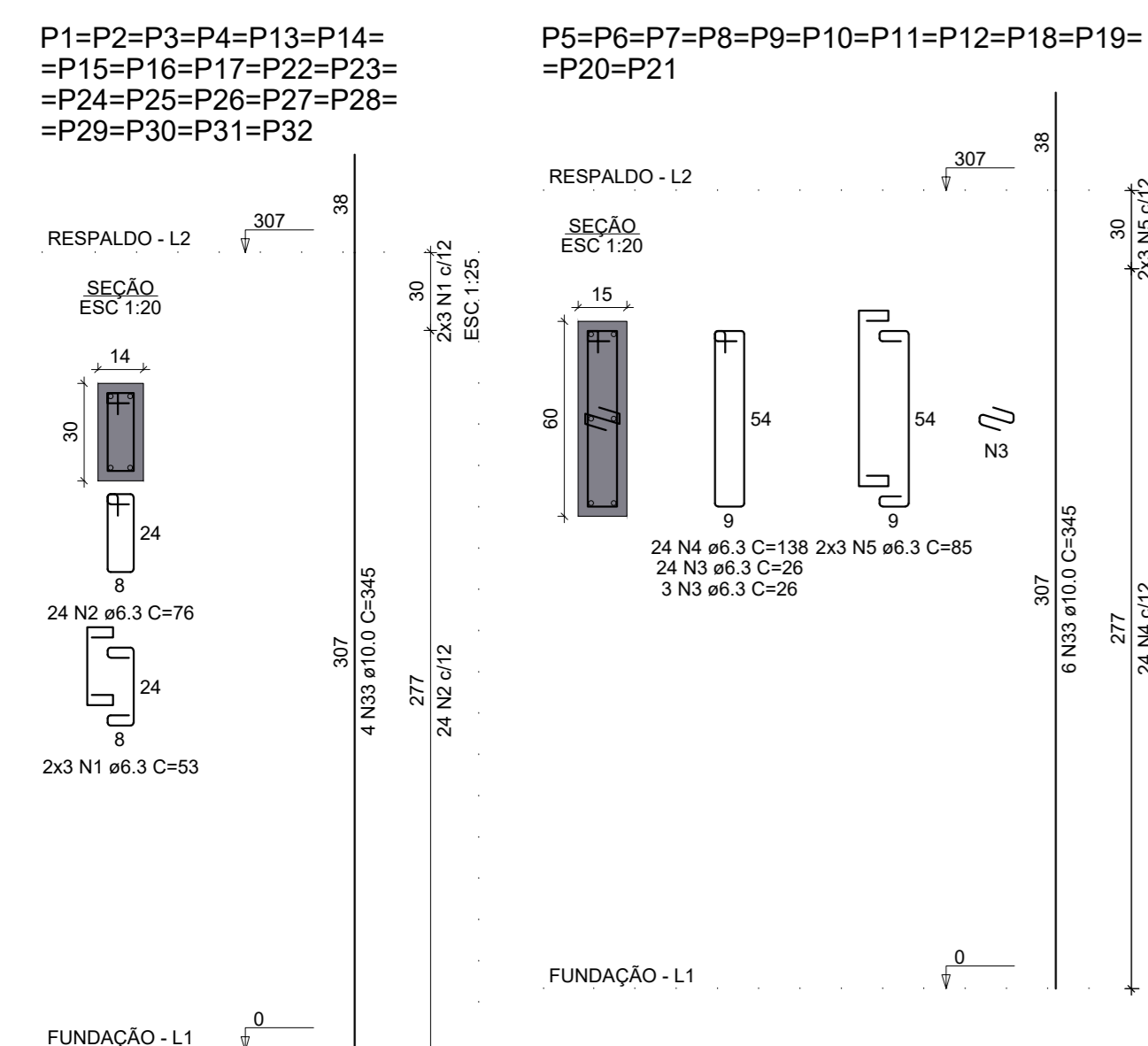
PROJETO ESTRUTURAL

Projeto: Projeto Estrutural

Único

Detalhamento da infra-estrutura.

2



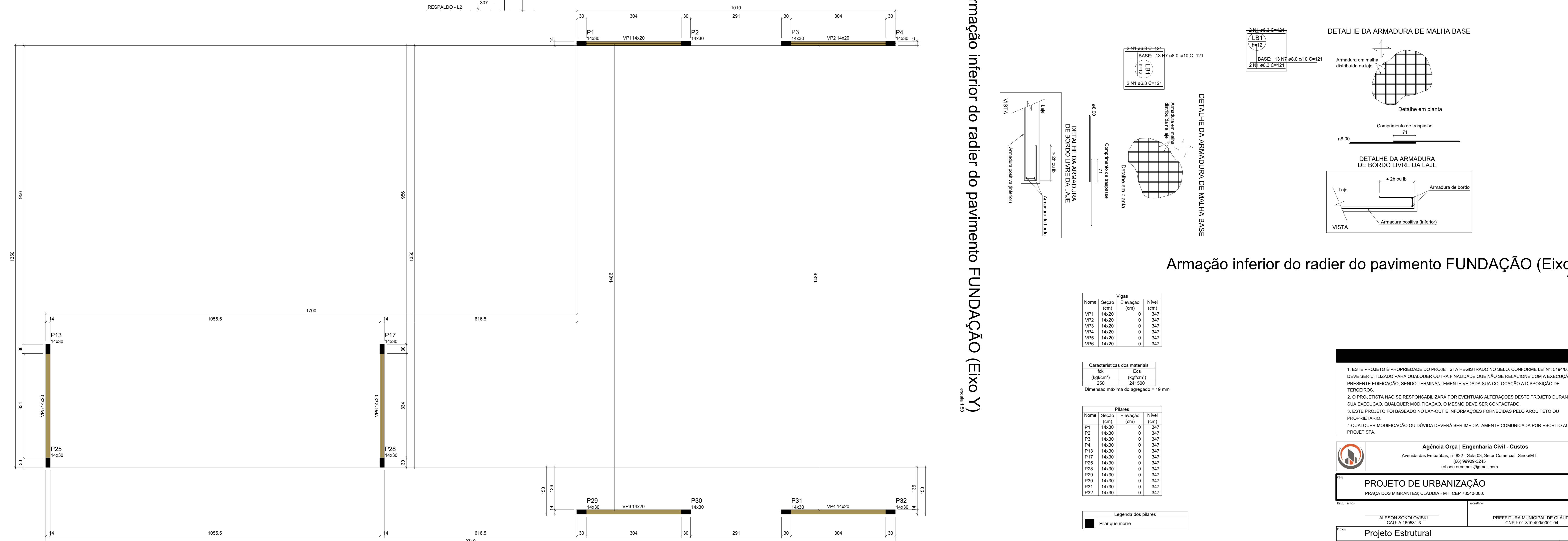
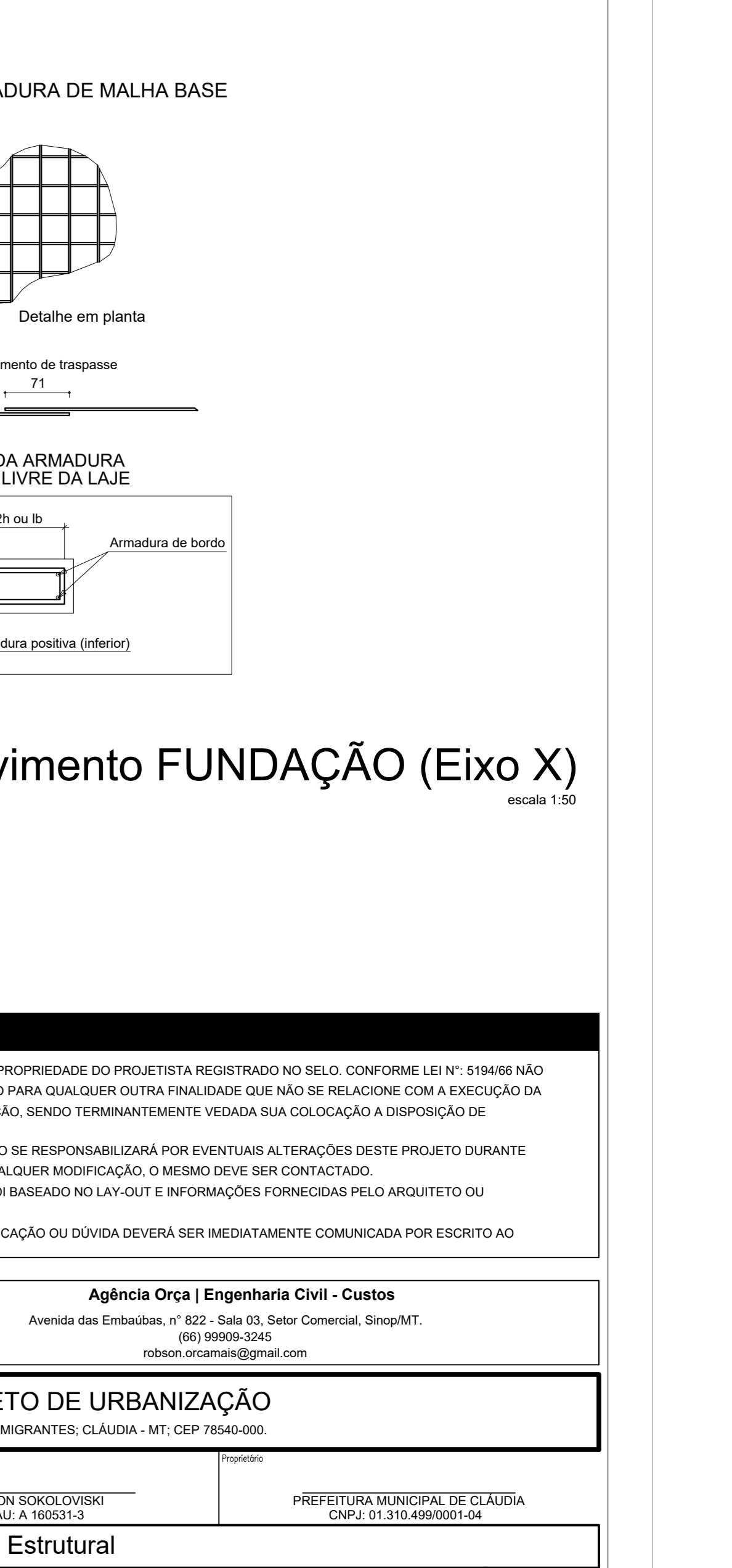
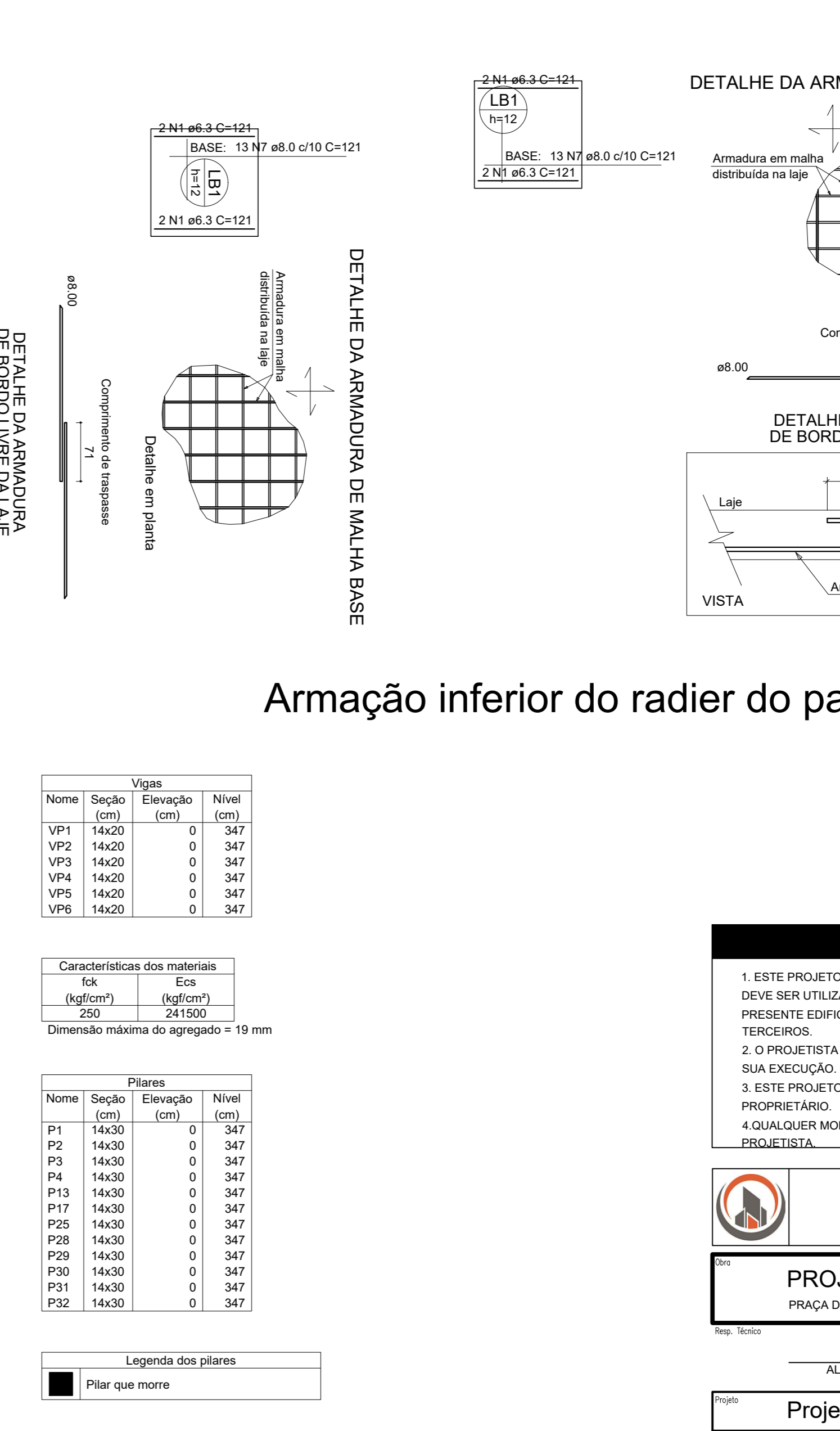
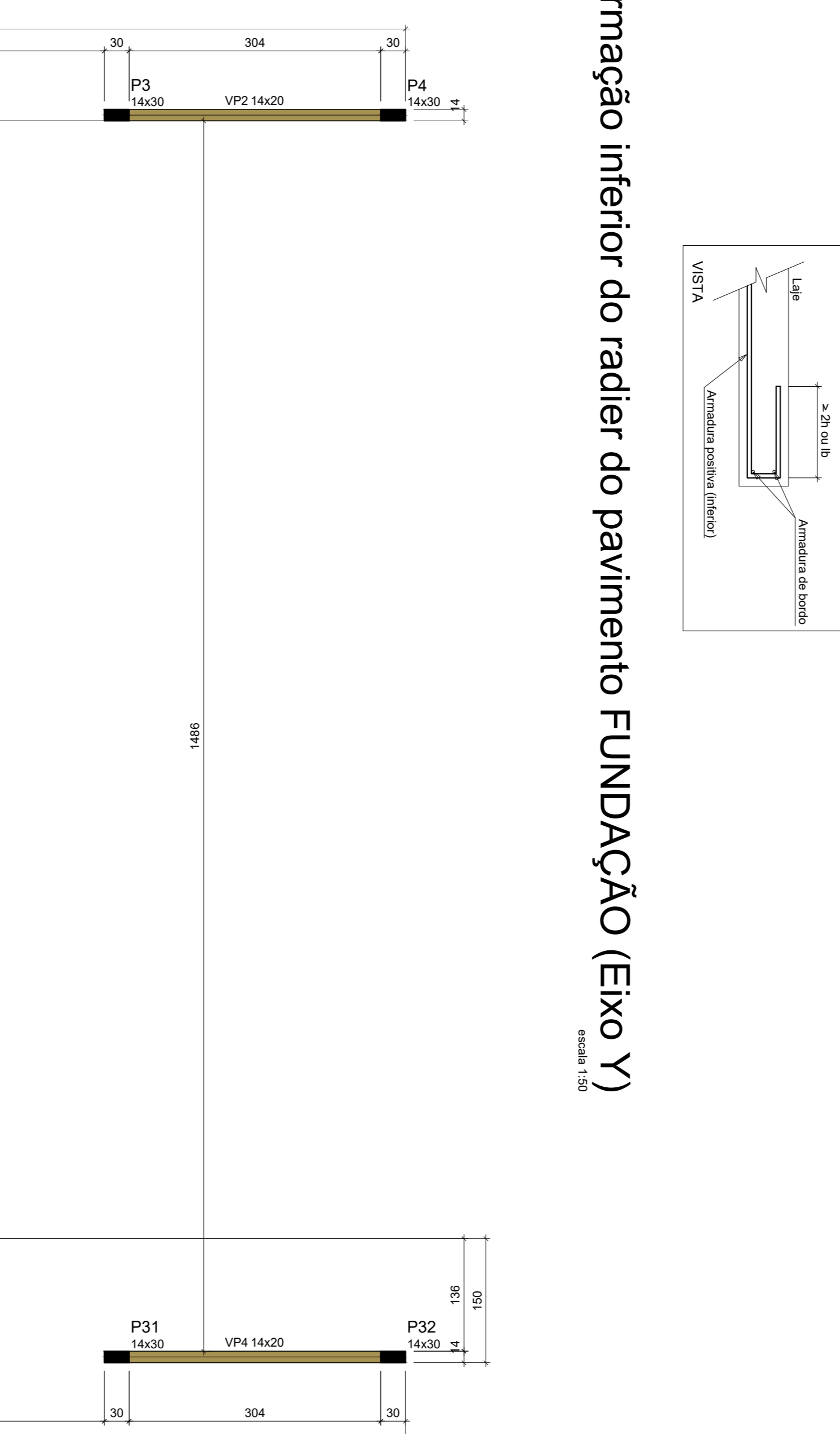
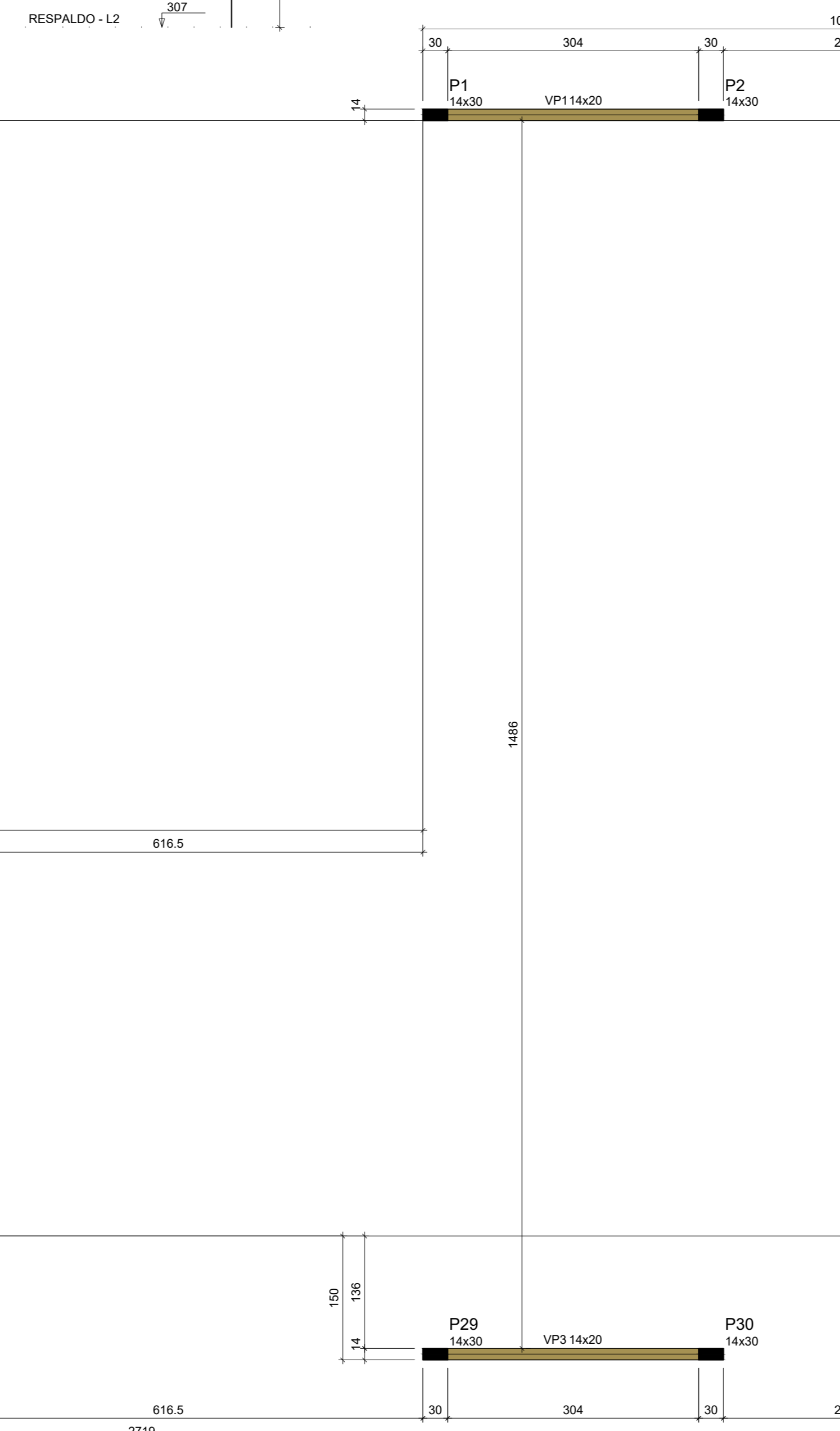
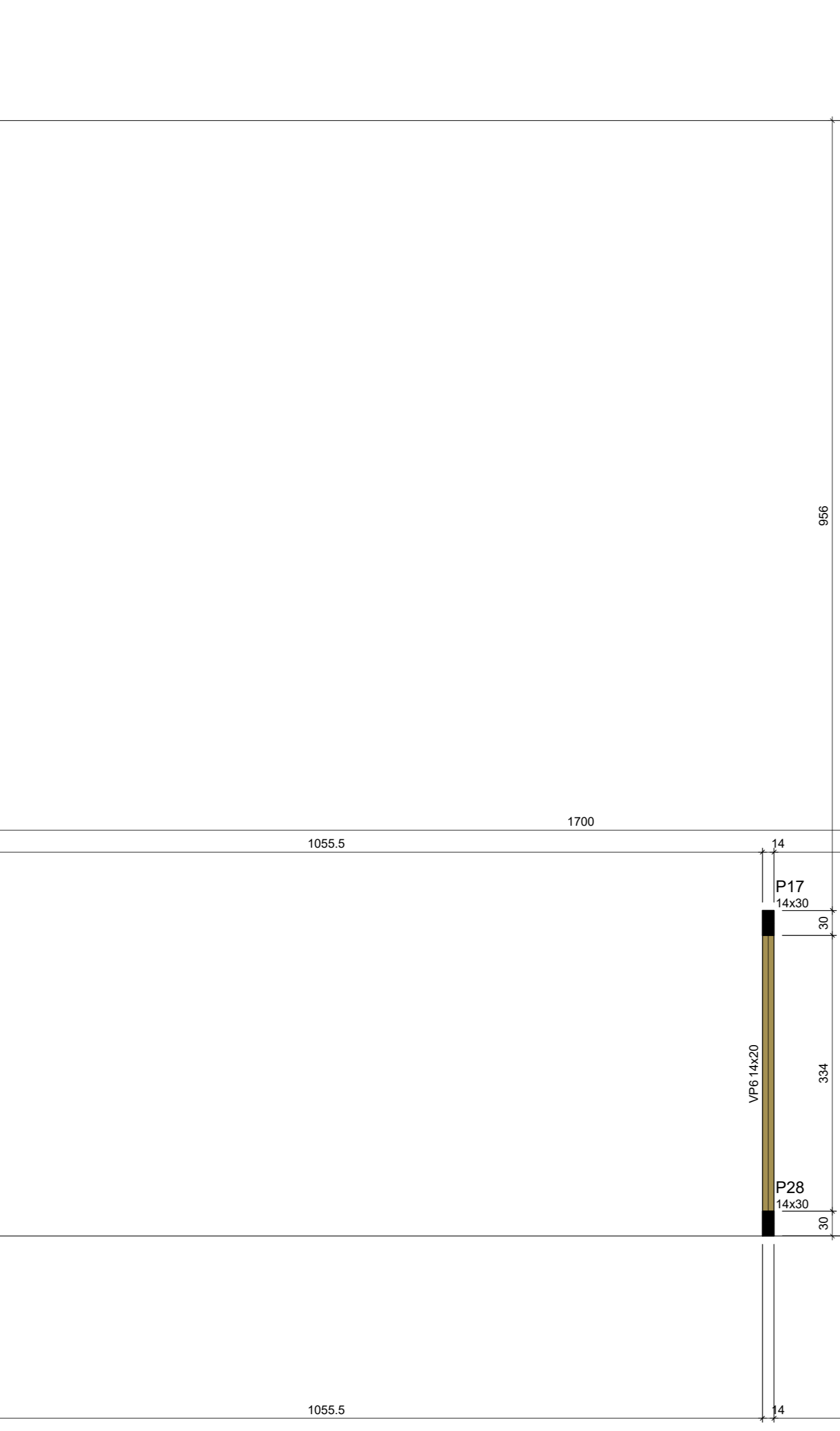
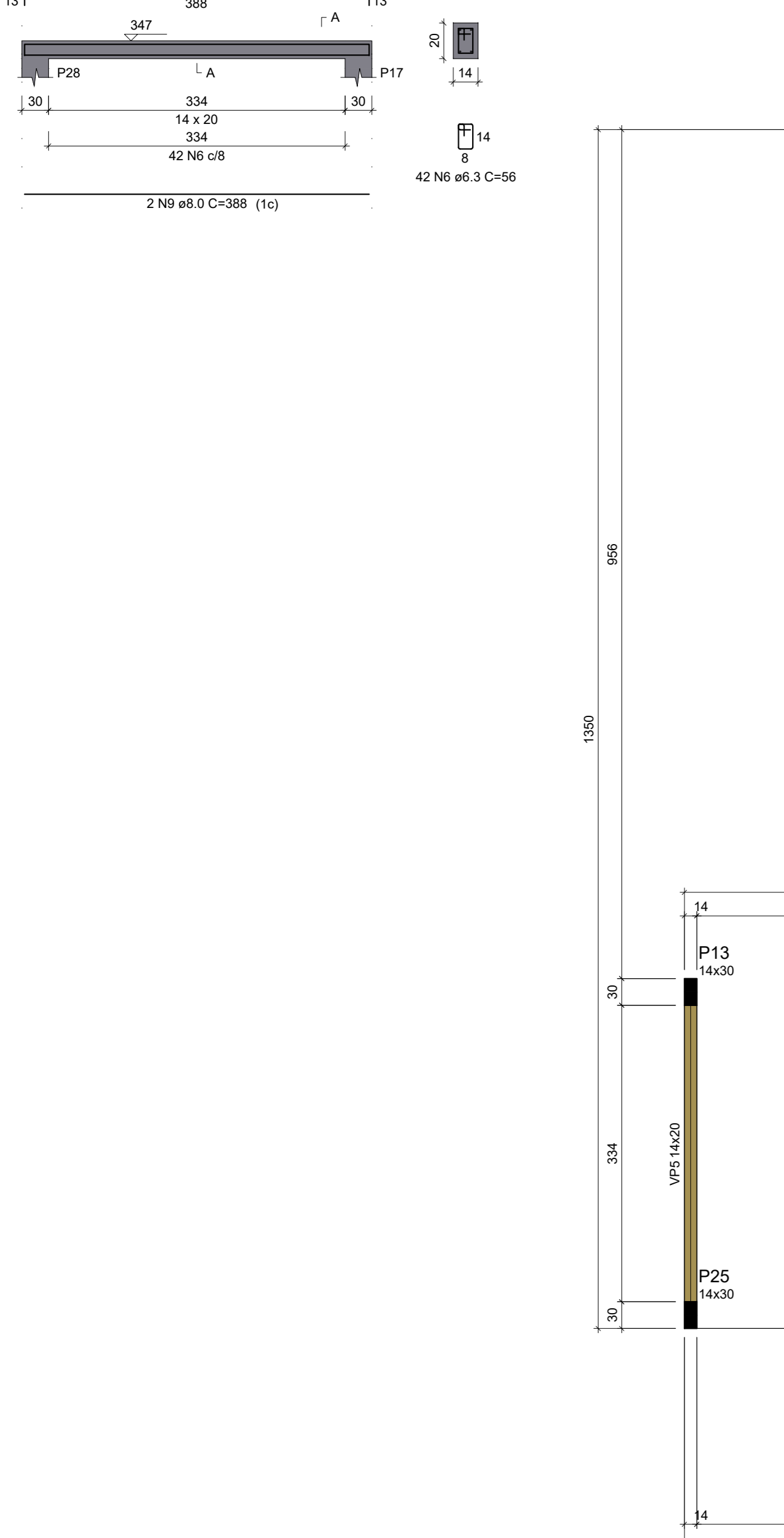
RELAÇÃO DO AÇO

CAISO	Nº	DIAM (mm)	QUANT	CUNT (cm)	C.TOTAL (cm)
1	6.3	216	53	11448	
2	6.3	156	76	8756	
3	6.3	324	25	8424	
4	6.3	288	138	39744	
5	6.3	225	25	5625	
6	6.3	236	56	13216	
7	8.0	24	358	8592	
8	8.0	8	380	3040	
9	8.0	12	388	4656	
10	8.0	4	410	1640	
11	8.0	2	368	736	
12	8.0	2	398	796	
13	8.0	2	358	716	
14	8.0	2	225	900	
15	8.0	2	236	944	
16	8.0	2	217	868	
17	8.0	2	334	1336	
18	8.0	2	418	1672	
19	8.0	4	191	764	
20	8.0	4	391	1564	
21	8.0	4	386	1544	
22	8.0	4	194	776	
23	8.0	4	212	848	
24	8.0	4	234	936	
25	8.0	4	229	916	
26	8.0	4	232	928	
27	8.0	4	229	916	
28	8.0	4	232	928	
29	8.0	16	444	1776	
30	8.0	16	425	1690	
31	8.0	16	459	1836	
32	10.0	68	79	3744	
33	10.0	152	345	52440	

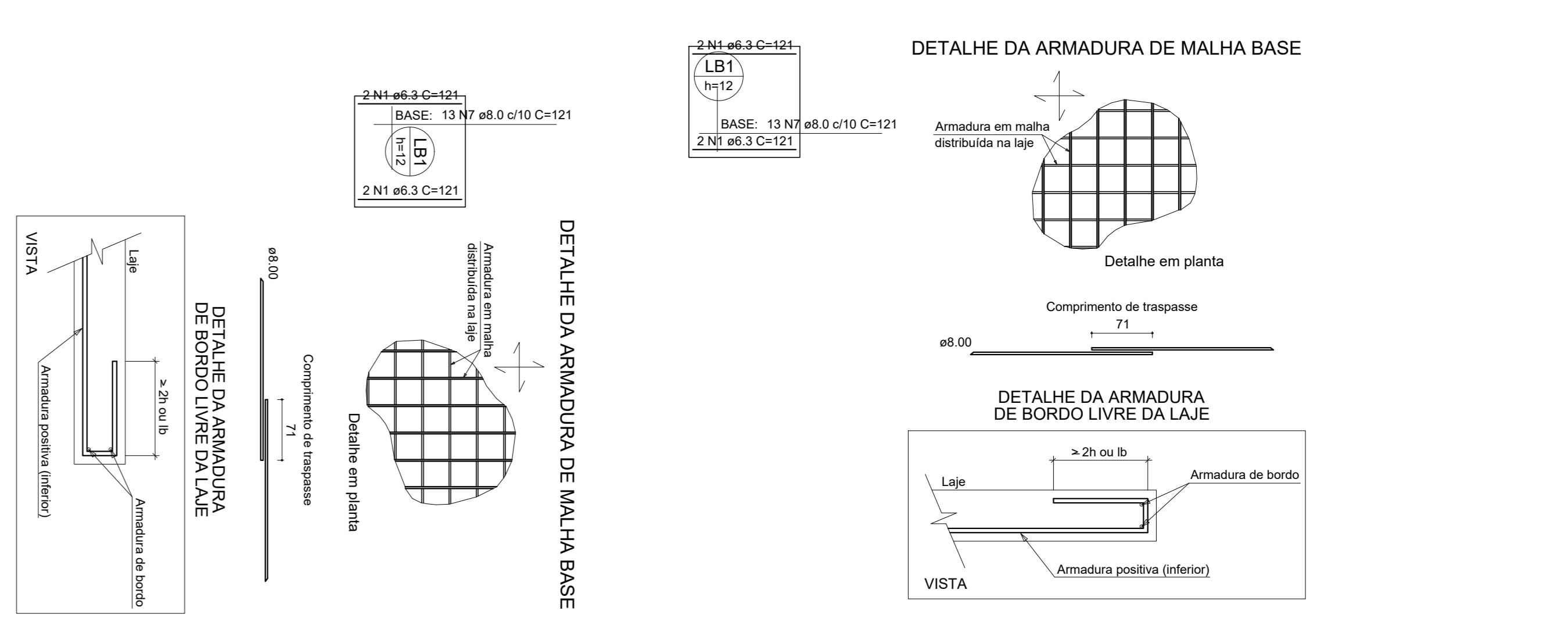
RESUMO DO AÇO

CAISO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
1	6.3	1666.1	449
2	6.3	599.4	200.1
3	6.3	561.8	301
4	6.3	1099.2	361
5	6.3	1099.2	361
6	6.3	1099.2	361
7	8.0	1099.2	361
8	8.0	1099.2	361
9	8.0	1099.2	361
10	8.0	1099.2	361
11	8.0	1099.2	361
12	8.0	1099.2	361
13	8.0	1099.2	361
14	8.0	1099.2	361
15	8.0	1099.2	361
16	8.0	1099.2	361
17	8.0	1099.2	361
18	8.0	1099.2	361
19	8.0	1099.2	361
20	8.0	1099.2	361
21	8.0	1099.2	361
22	8.0	1099.2	361
23	8.0	1099.2	361
24	8.0	1099.2	361
25	8.0	1099.2	361
26	8.0	1099.2	361
27	8.0	1099.2	361
28	8.0	1099.2	361
29	8.0	1099.2	361
30	8.0	1099.2	361
31	8.0	1099.2	361
32	10.0	1099.2	361
33	10.0	1099.2	361

Volume de concreto (C-25) = 1191 m³
Área de forma = 216.97 m²



Armação inferior do radier do pavimento FUNDAÇÃO (Eixo Y)



Armação inferior do radier do pavimento FUNDAÇÃO (Eixo X)

Vigas

Nome	Seção	Elevação (cm)	Nível (cm)
VP1	14x30	0	347
VP2	14x30	0	347
VP3	14x30	0	347
VP4	14x30	0	347
VP5	14x30	0	347
VP6	14x30	0	347

Características dos materiais

Esq.	Esc.
250	241500

Dimensão máxima do agregado = 19 mm

Planos

Nome	Seção	Elevação (cm)	Nível (cm)
P1	14x30	0	347
P2	14x30	0	347
P3	14x30	0	347
P4	14x30	0	347
P5	14x30	0	347
P6	14x30	0	347
P7	14x30	0	347
P8	14x30	0	347
P9	14x30	0	347
P10	14x30	0	347
P11	14x30	0	347
P12	14x30	0	347
P13	14x30	0	347
P14	14x30	0	347
P15	14x30	0	347
P16	14x30	0	347
P17	14x30	0	347
P18	14x30	0	347
P19	14x30	0	347
P20	14x30	0	347
P21	14x30	0	347
P22	14x30	0	347
P23	14x30	0	347
P24	14x30	0	347
P25	14x30	0	347
P26	14x30	0	347
P27	14x30	0	347
P28	14x30	0	347
P29	14x30	0	347
P30	14x30	0	347
P31	14x30	0	347
P32	14x30	0	347

Legenda dos pilares

■ Pilar que morre

Legenda das vigas e paredes

■ Viga

Forma do pavimento PLATIBANDA (Nível 347)

1. ESTE PROJETO É PROPRIEDADE DO PROJETISTA REGISTRADO NO SELO, CONFORME Lei nº 5.196/66 NÃO DEVE SER UTILIZADO PARA QUALQUER OUTRA FINALIDADE QUE NÃO SE RELACIONE COM A EXECUÇÃO DA PRESENTE EDIFICAÇÃO, SENDO TERMINANTEMENTE VEIADA SUA COLOCAÇÃO A DISPOSIÇÃO DE TERCEIROS;
2. O PROJETISTA NÃO SE RESPONSABILIZA POR EVENTUAIS ALTERAÇÕES DESSTE PROJETO DURANTE SUA EXECUÇÃO, QUALQUER MODIFICAÇÃO, O MESMO DEVE SER CONTACTADO;
3. ESTE PROJETO FOR BASEADO NO LAY-OUT E INFORMAÇÕES FORNECIDAS PELO ARQUITETO OU PROPRIETÁRIO;
4. QUALQUER MODIFICAÇÃO OU DÚVIDA DEVERÁ SER IMEDIATAMENTE COMUNICADA POR ESCRITO AO PROJETISTA.

Agência Orça | Engenharia Civil - Custos
Avenida das Embaibas, nº 622 - Sala 03, Seter Comercial, Sinop/MT.
(65) 9990-3345
robon.ocranias@gmail.com

PROJETO DE URBANIZAÇÃO
PRAÇA DOS MIGRANTES, CLÁUDIA - MT. CEP: 78640-000

ALISON SOLOLOVSKI
CRA: A 108551-3

PREFEITURA MUNICIPAL DE CLÁUDIA
CNPJ: 01.319.499/0001-04

Projeto Estrutural

Único

Detalhamento da supra-estrutura.

3

Out/2020