

Nome	Solo	X (m)	Y (m)	Carga Max. (kN)	Mx (kNm)	My (kNm)	Fx (kN)	Fy (kN)	Lado B (m)	Lado H (m)	h1 (m)	h2 (m)	ne (m)	de (m)	Bloco (m)	Base sub. (m)
P1	14x30	18.00	1400.00	4.2	3.8	0	0	0.6	0.3	60	60	0	55	1	30	-40
P2	14x30	480.00	1400.00	4.2	4.3	0	0	0.3	0.1	60	60	0	55	1	30	-40
P3	14x30	730.00	1400.00	5.3	5.1	0	0	0.3	0.6	60	60	0	55	1	30	-40
P4	14x30	1202.00	1400.00	4.9	4.5	0	0	0.6	0.1	60	60	0	65	1	30	-50
P5	14x30	18.00	1100.00	5.4	5.1	0	0	0.5	0.2	60	60	0	55	1	30	-40
P6	14x30	480.00	1100.00	4.4	3.9	0	0	0.5	0.1	60	60	0	65	1	30	-50
P7	14x30	18.00	909.95	5.3	4.8	0	0	0.5	0.2	60	60	0	55	1	30	-40
P8	14x30	480.00	909.95	4.4	4.4	0	0	0.4	0.1	60	60	0	65	1	30	-50
P9	14x30	730.00	909.95	6.5	6.2	0	0	0.4	0.2	60	60	0	55	1	30	-40
P10	14x30	1210.00	909.95	8.8	8.4	0	0	0.4	0.1	60	60	0	65	1	30	-50
P11	14x30	202.00	739.95	5.0	4.6	0	0	0.3	0.1	60	60	0	55	1	30	-40
P12	14x30	18.00	570.00	6.1	5.6	0	0	0.4	0.1	60	60	0	55	1	30	-40
P13	14x30	480.03	570.00	5.5	4.9	0	0	0.3	0.2	60	60	0	55	1	30	-40
P14	14x30	1100.00	570.00	4.7	4.1	0	0	0.3	0.1	60	60	0	65	1	30	-50
P15	14x30	730.00	458.00	5.5	3.3	0	0	0.4	0.5	60	60	0	65	1	30	-50
P16	14x30	1210.00	458.00	2.2	1.3	0	0	0.3	0.1	60	60	0	65	1	30	-50
P17	14x30	302.00	250.00	3.2	2.9	0	0	0.3	0.2	60	60	0	55	1	30	-40
P18	14x30	680.00	250.00	3.2	2.9	0	0	0.3	0.1	60	60	0	55	1	30	-40
P19	14x30	1210.00	250.00	6.9	6.4	0	0	0.3	0.7	60	60	0	55	1	30	-40
P20	30x30	18.00	20.00	3.2	2.4	0	0	0.2	0.2	60	60	0	65	1	30	-50
P21	30x30	302.00	20.00	2.7	2.1	0	0	0.2	0.1	60	60	0	65	1	30	-50
P22	30x30	680.00	20.00	2.8	2.1	0	0	0.2	0.1	60	60	0	65	1	30	-50
P23	30x30	1202.00	20.00	2.7	2.0	0	0	0.2	0.1	60	60	0	65	1	30	-50

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Estacas	Quantidade
30	23

Coordenadas	Nome
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18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
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18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
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18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
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1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
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18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
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1202.00	P4, P23
1210.00	P10, P19
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20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
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20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
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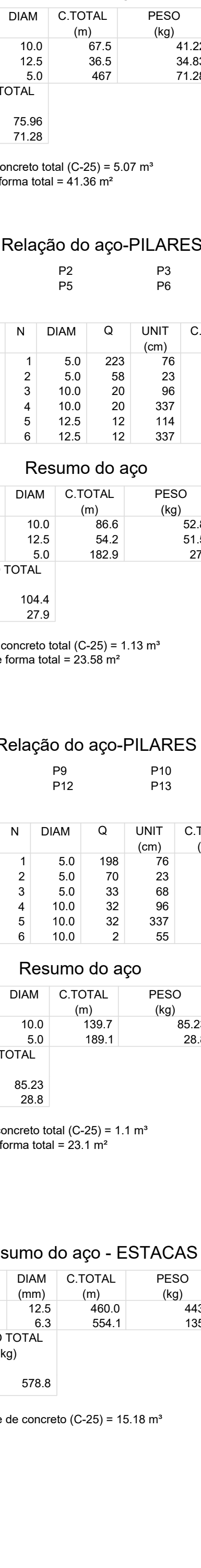
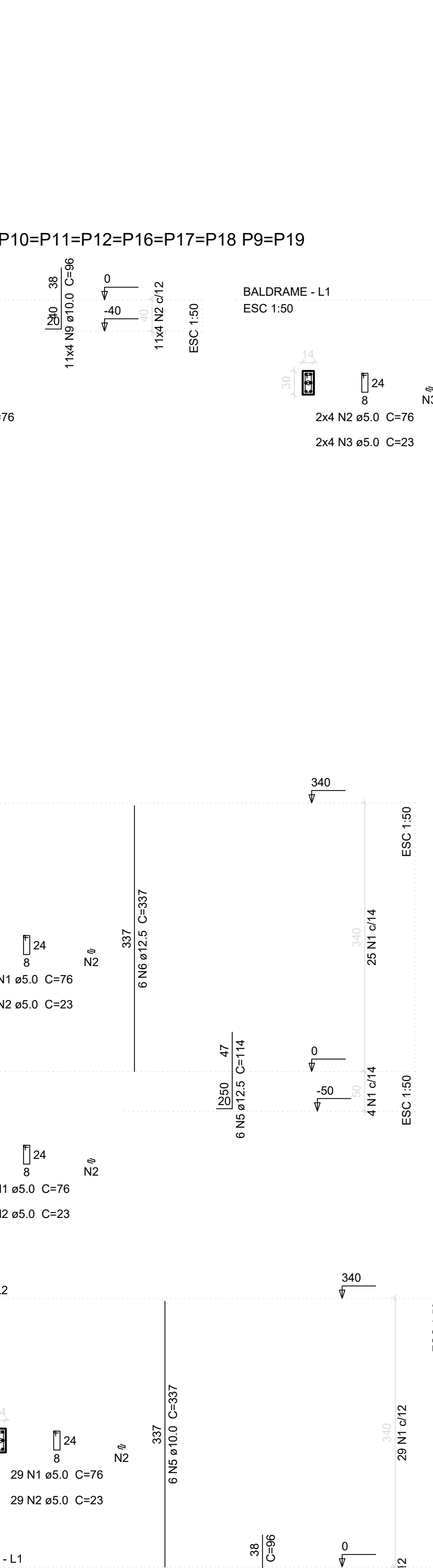
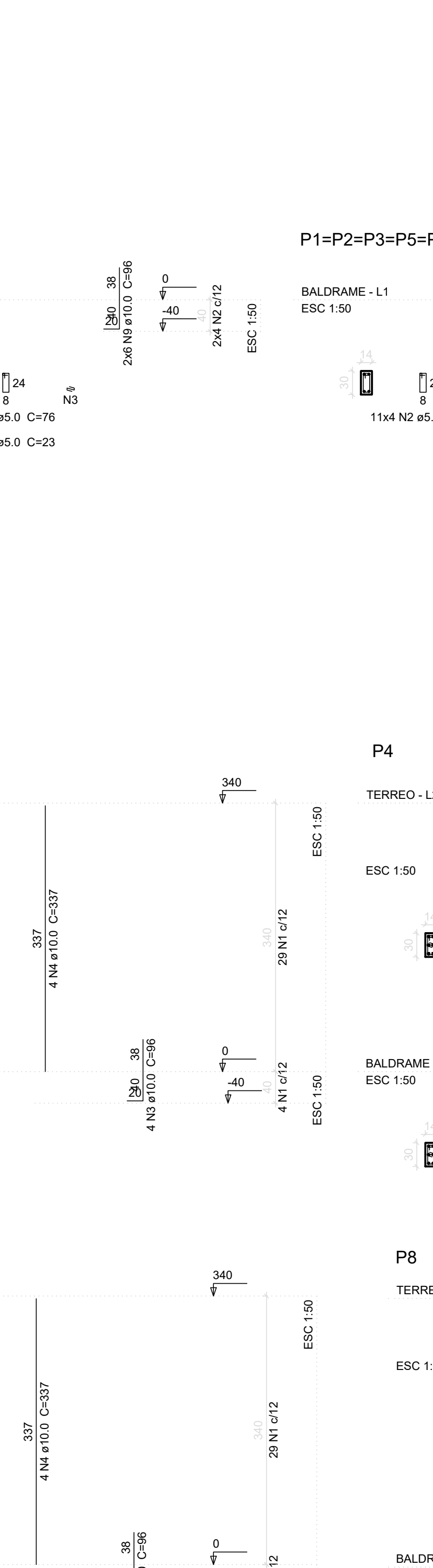
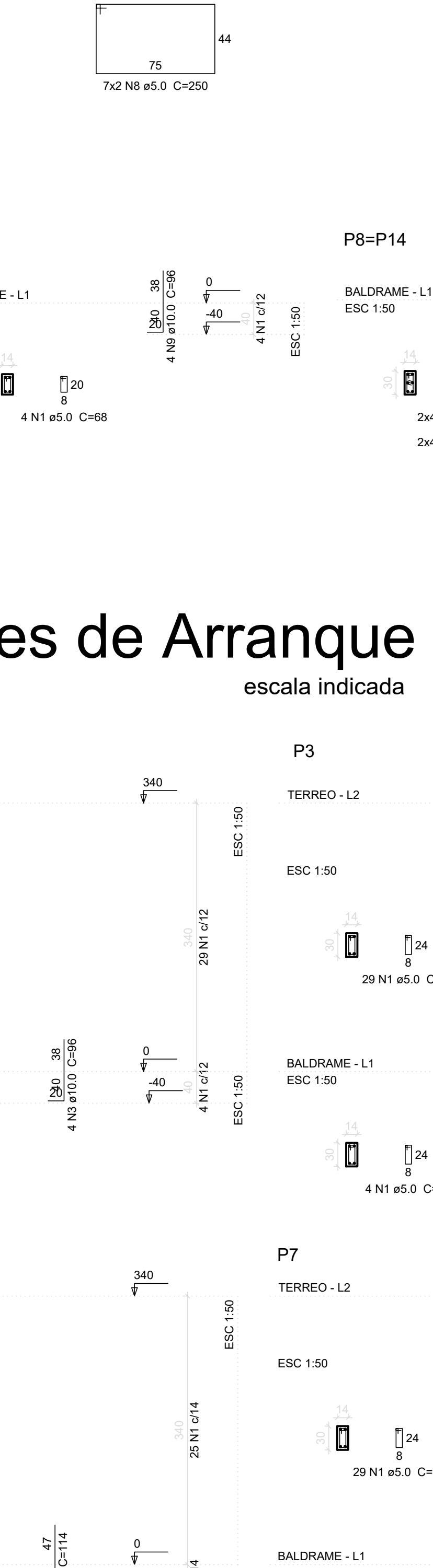
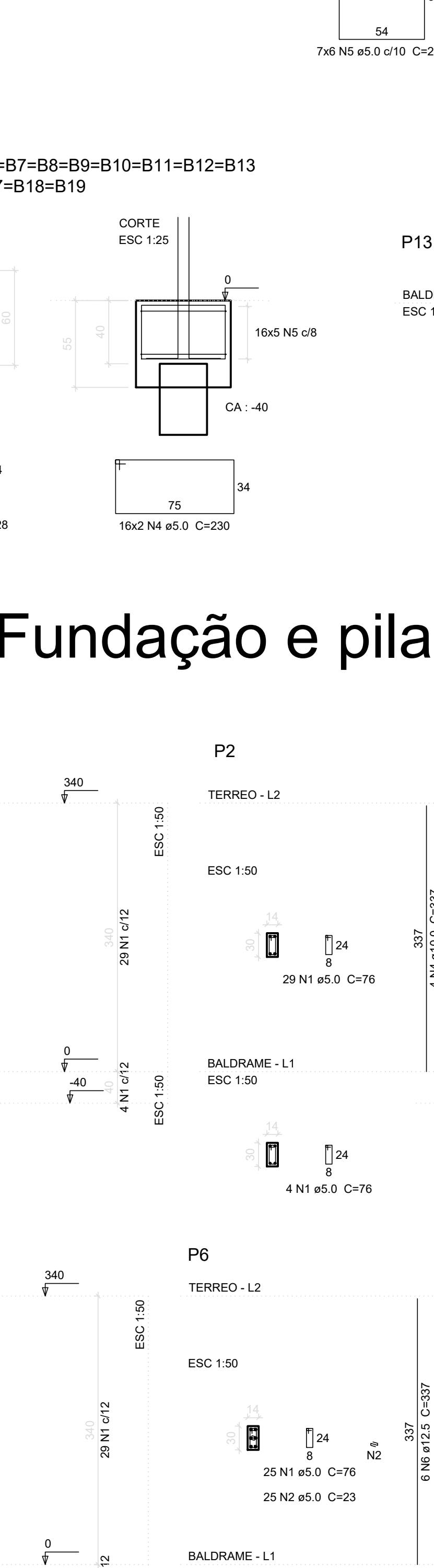
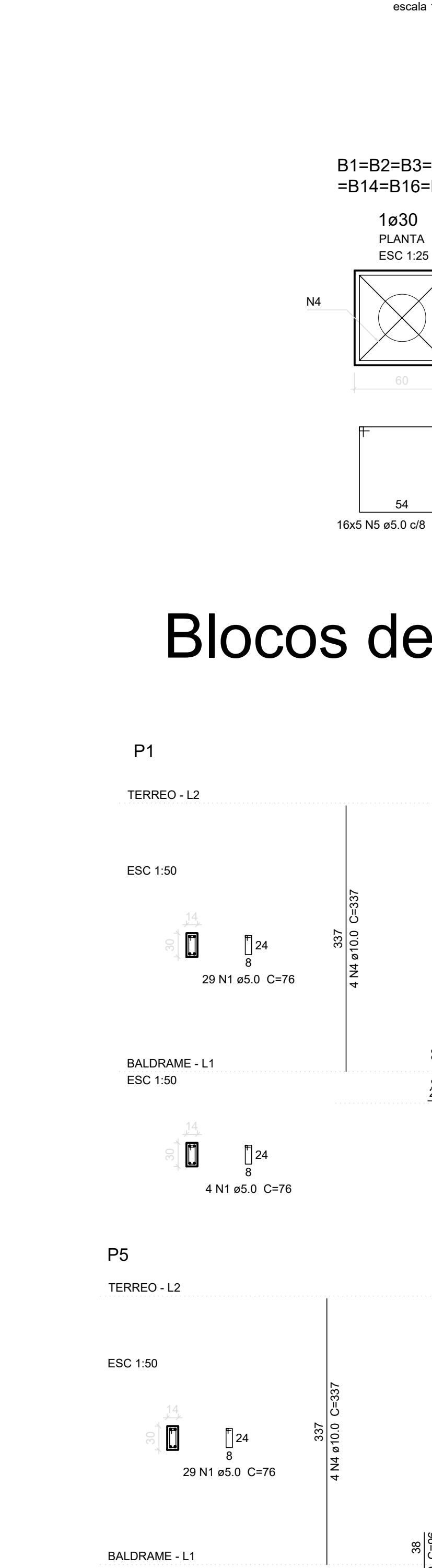
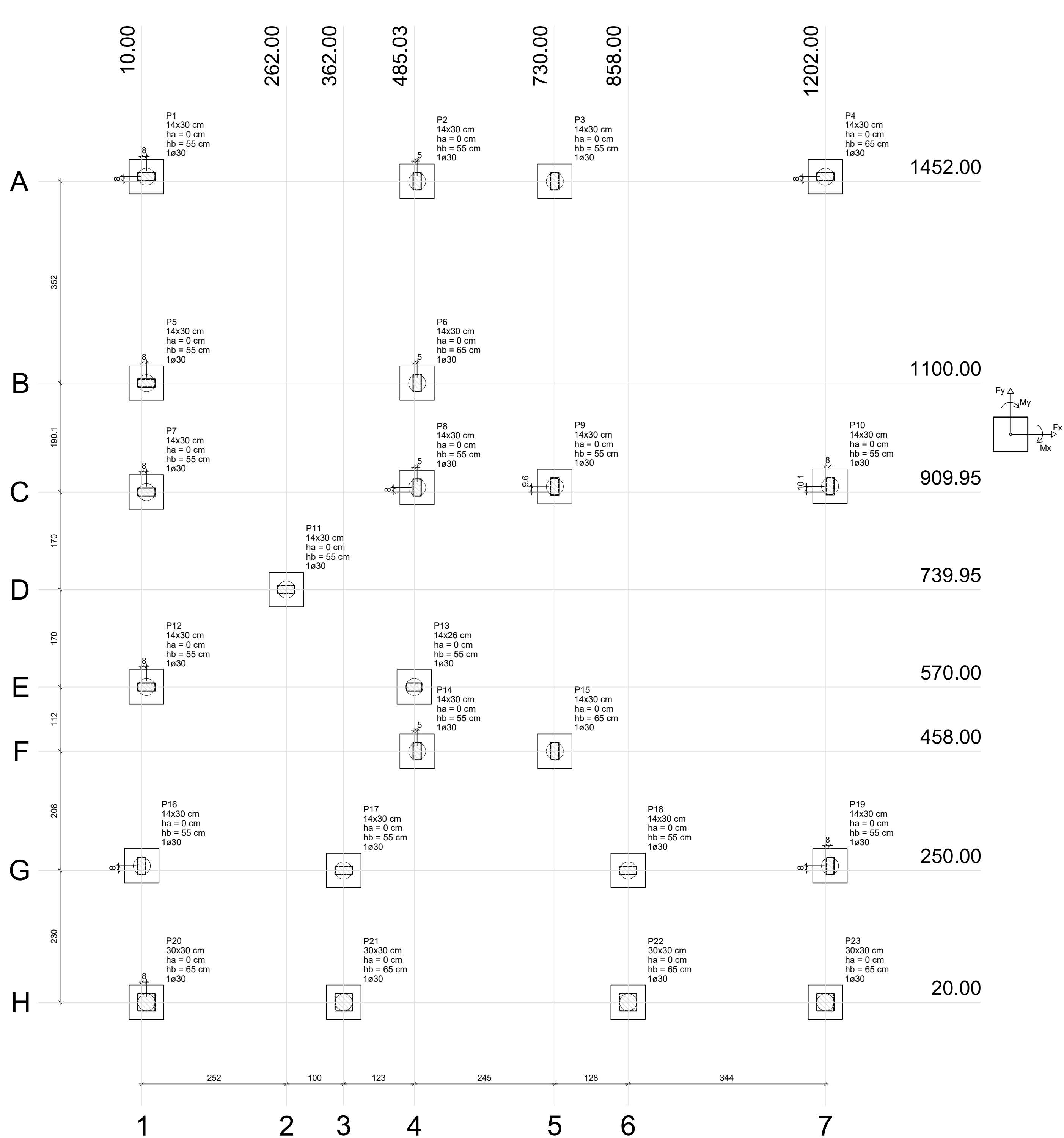
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202.00	P11
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730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
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18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
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1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
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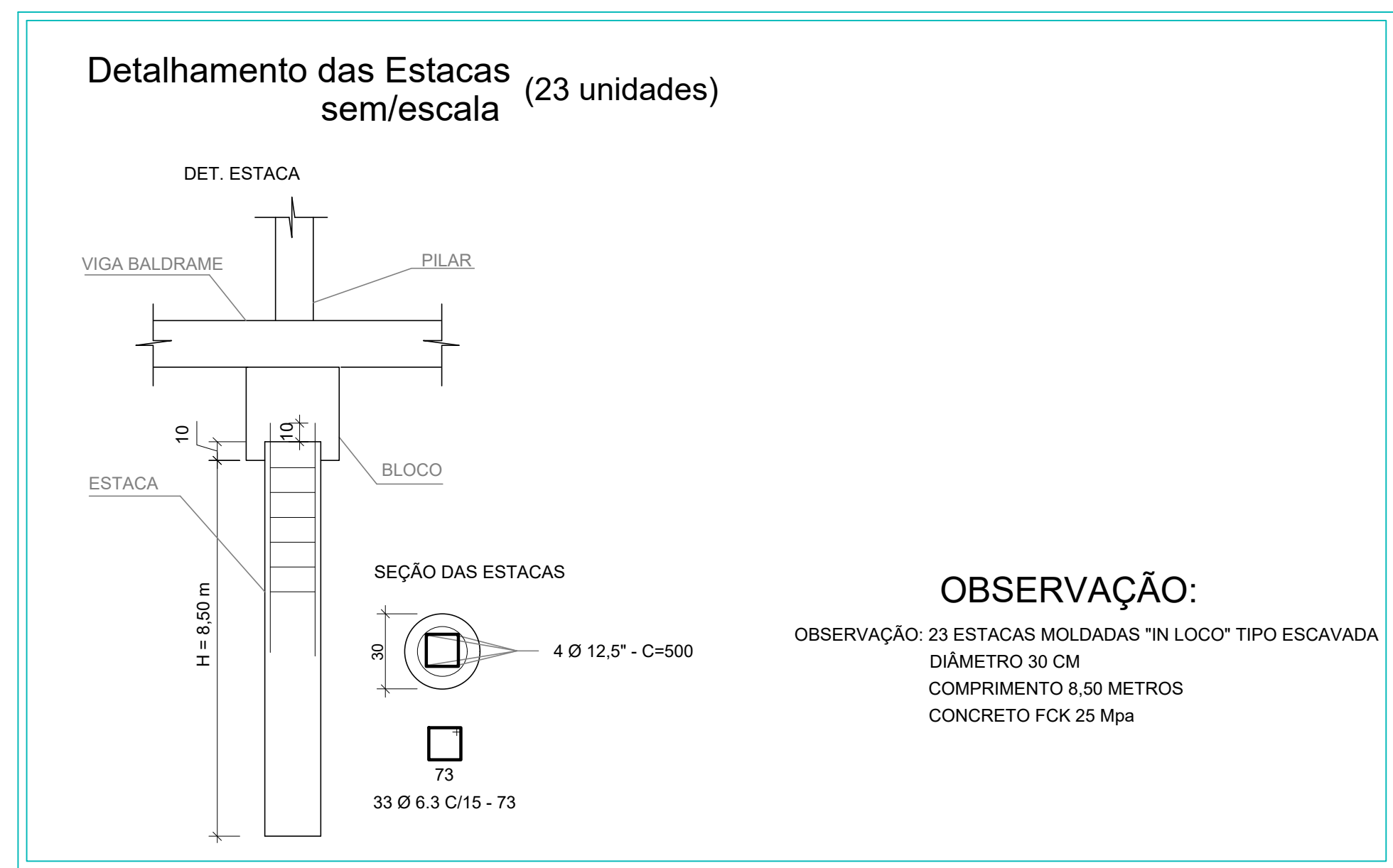
Coordenadas	Nome
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202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
1210.00	P10, P19
1250.00	P13, P22
1250.00	P18, P19
20.00	P20, P21, P22, P23

Coordenadas	Nome
10.00	P16
18.00	P1, P5, P7, P12, P20
202.00	P11
302.00	P17, P18
480.00	P2, P6, P8, P14
730.00	P3, P9, P15
1202.00	P4, P23
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1250.00	P18, P19
20.00	P20, P21, P22, P23



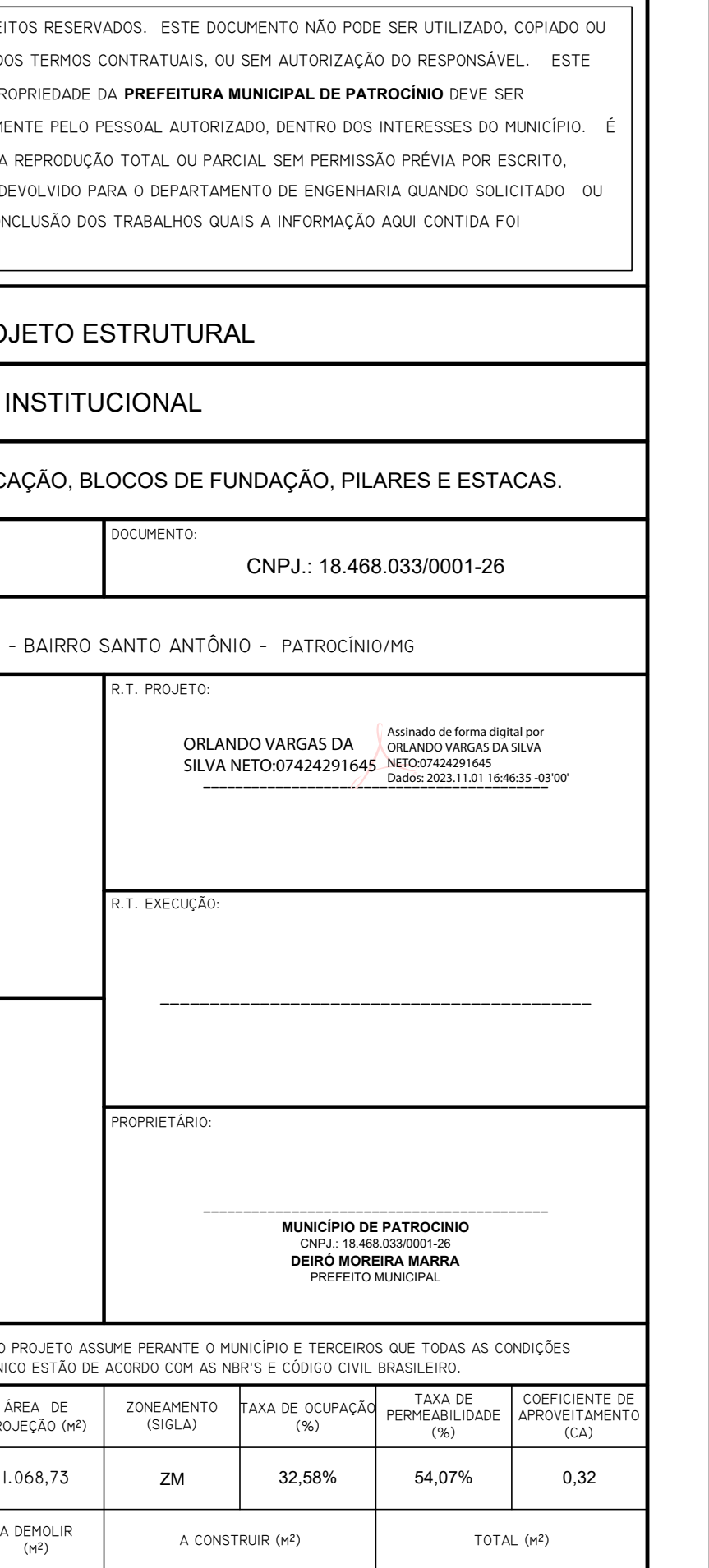
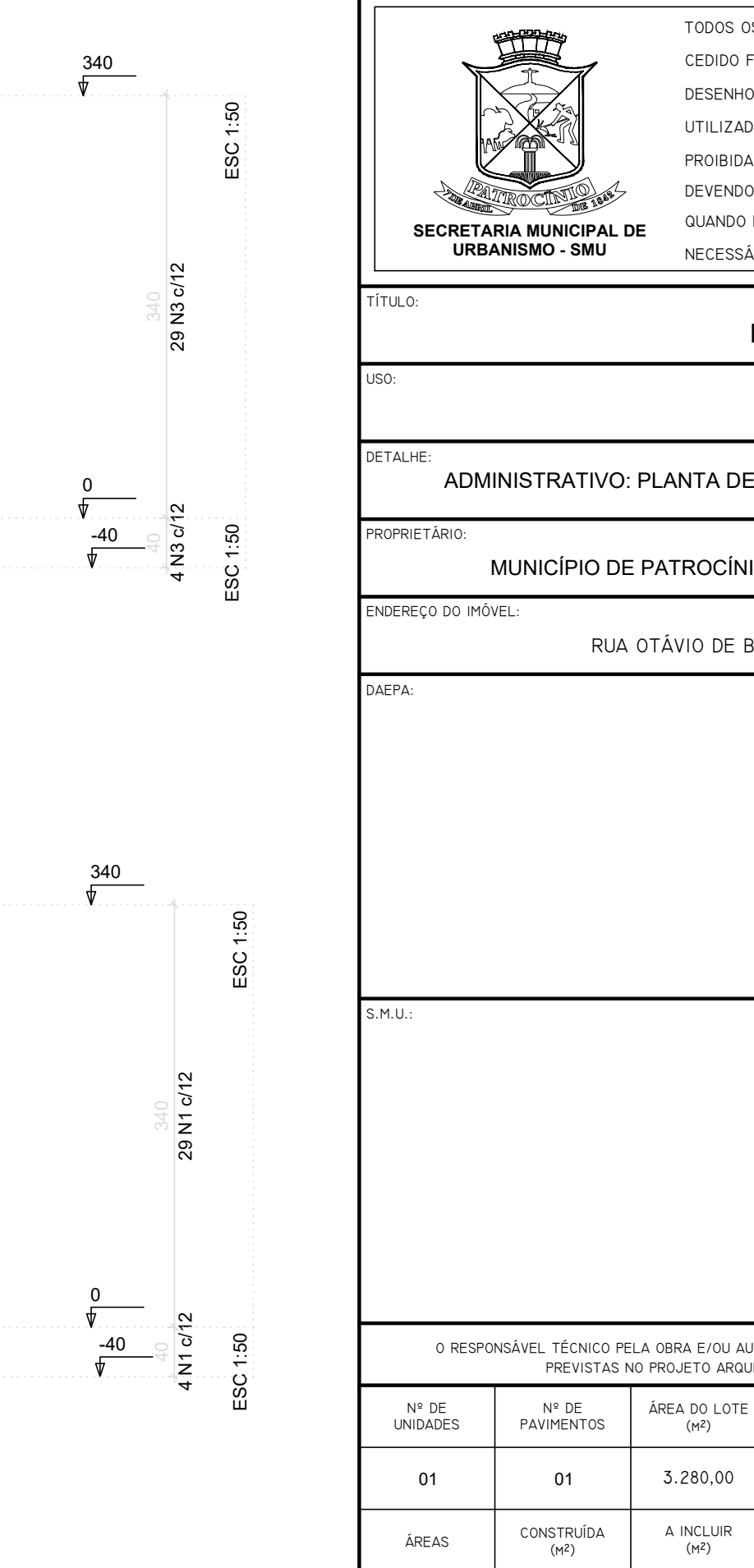
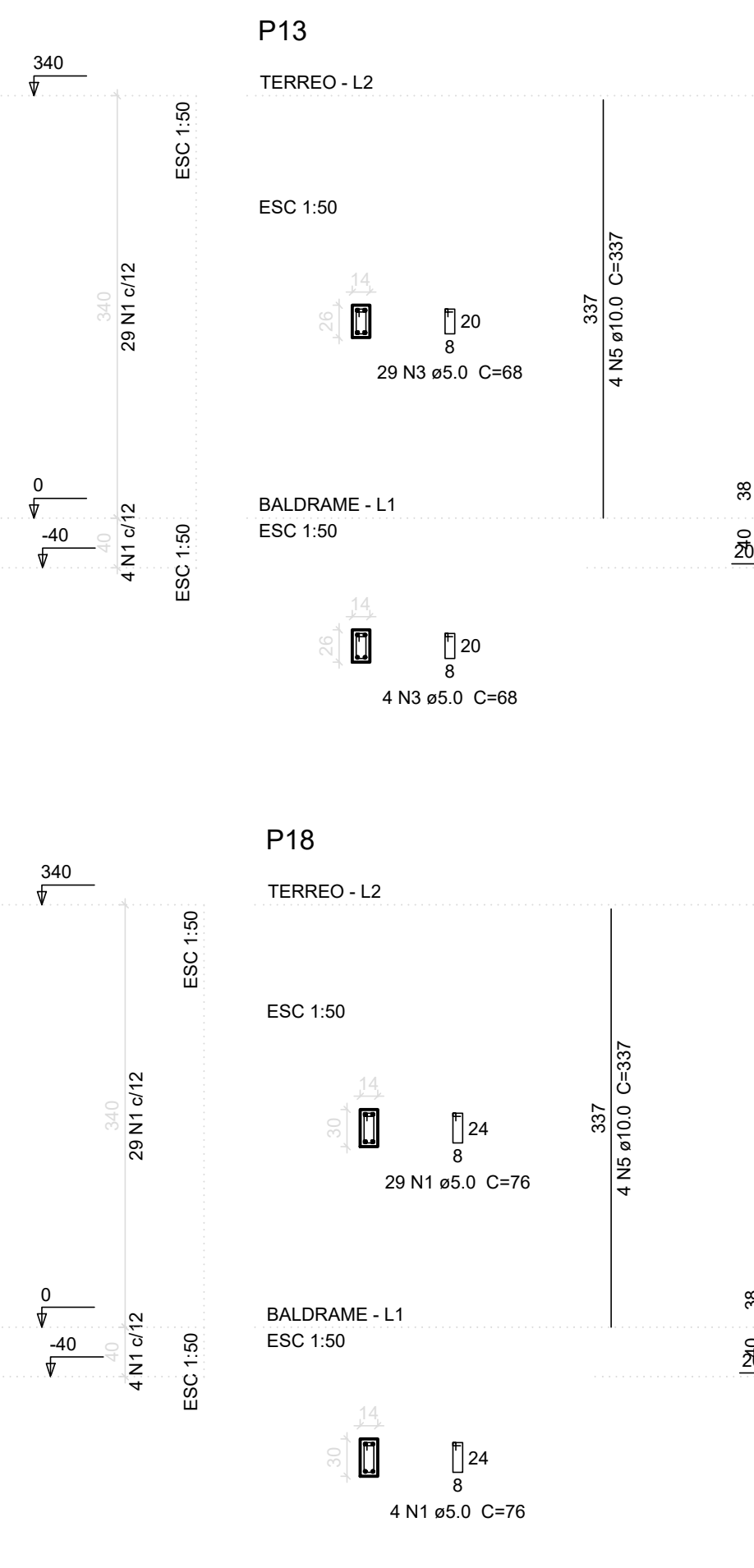
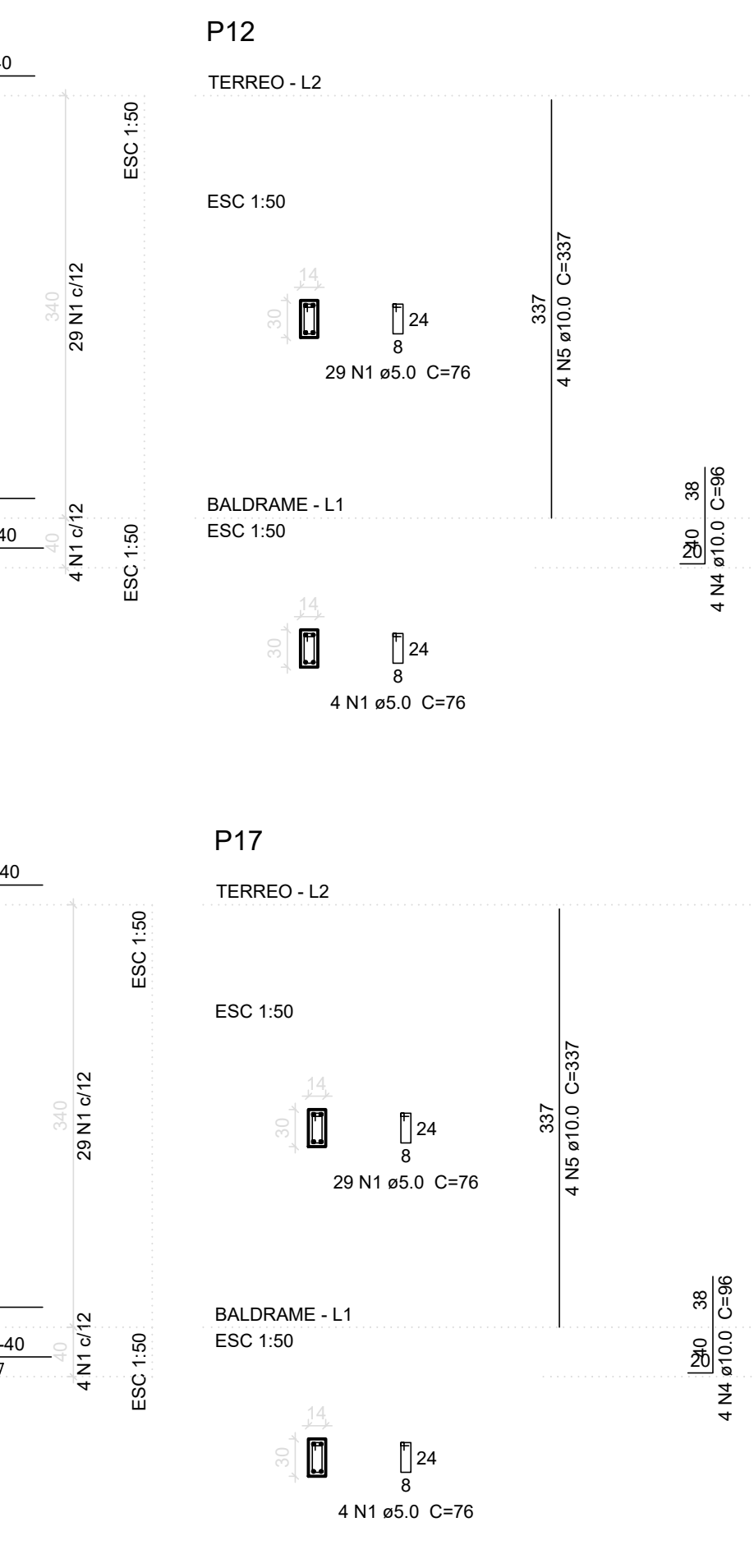
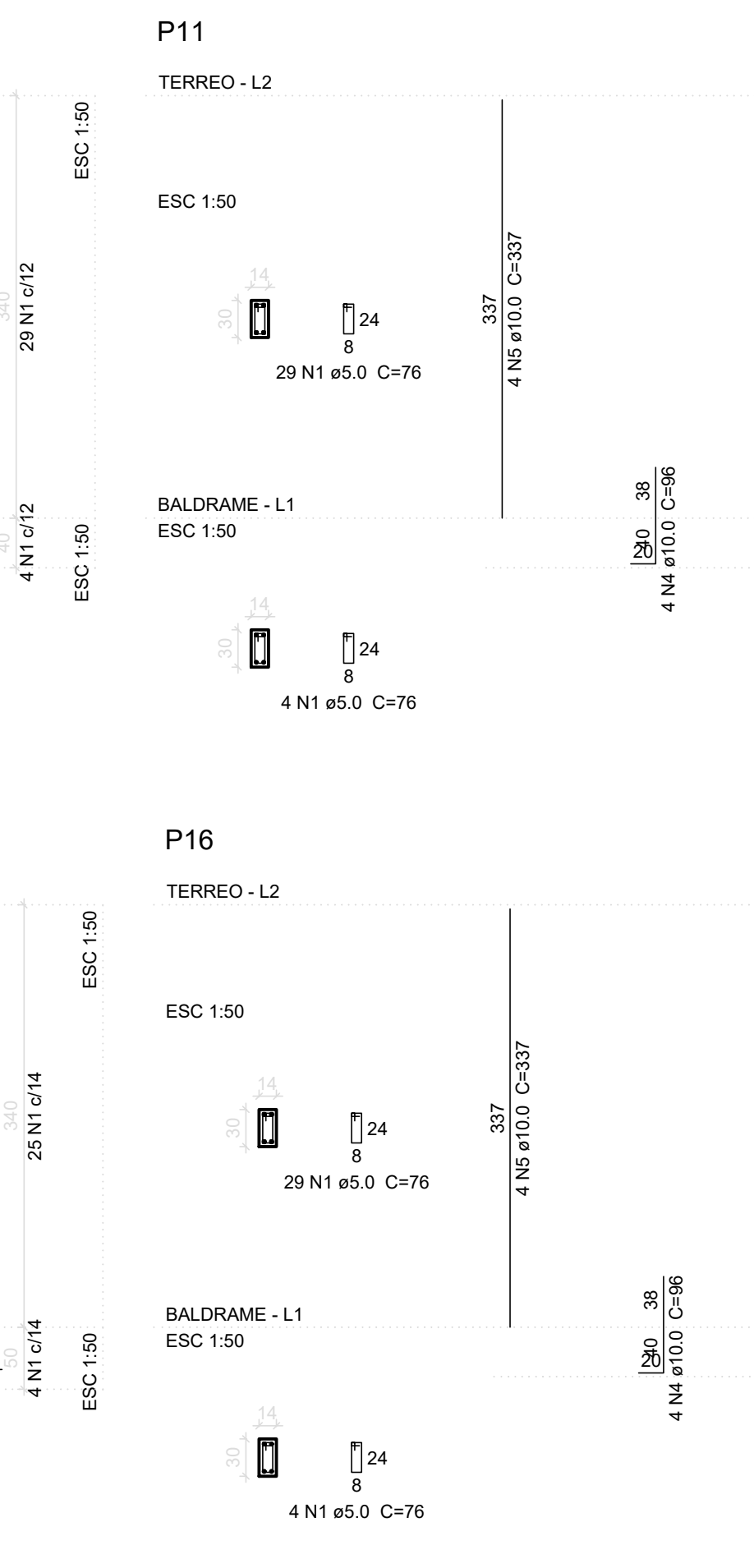
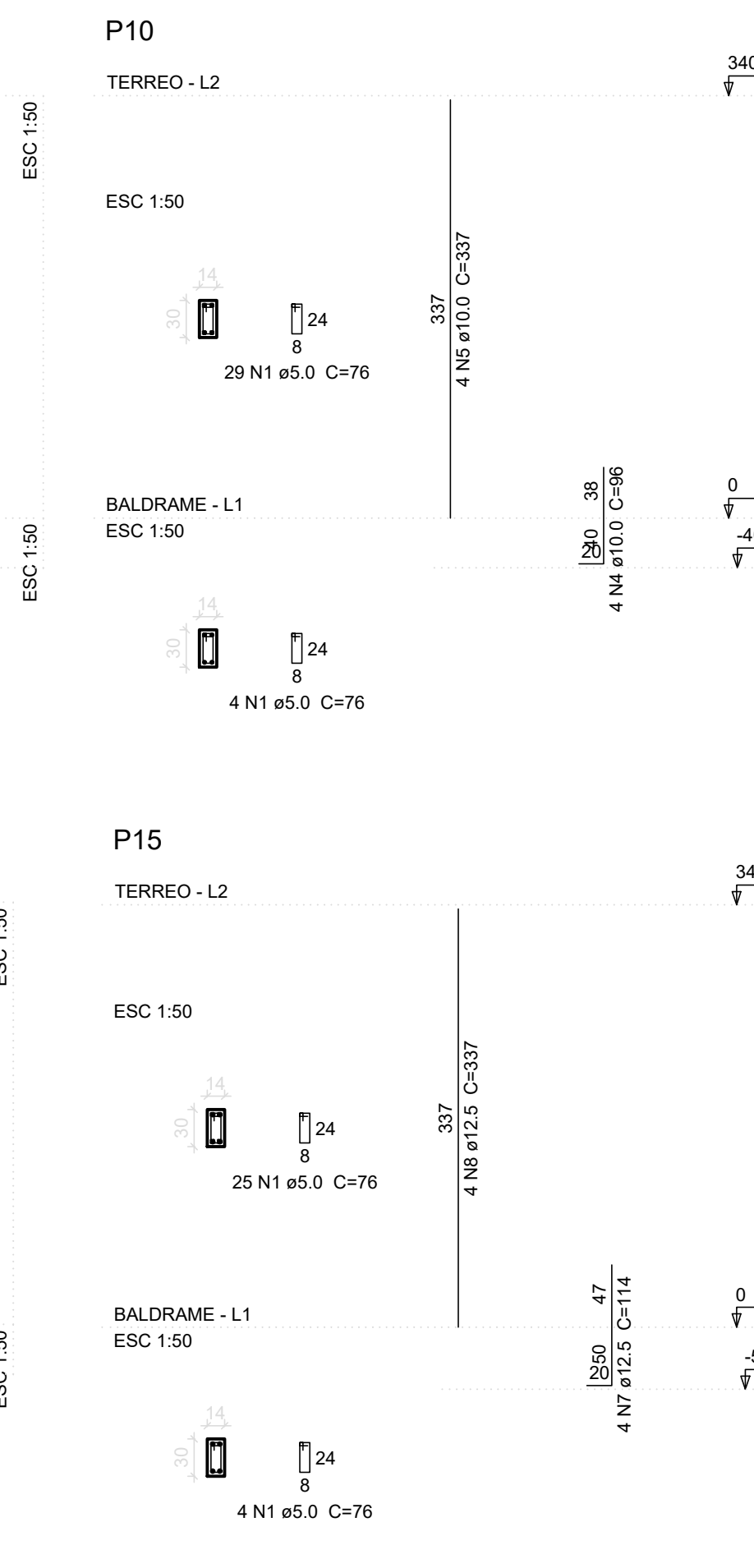
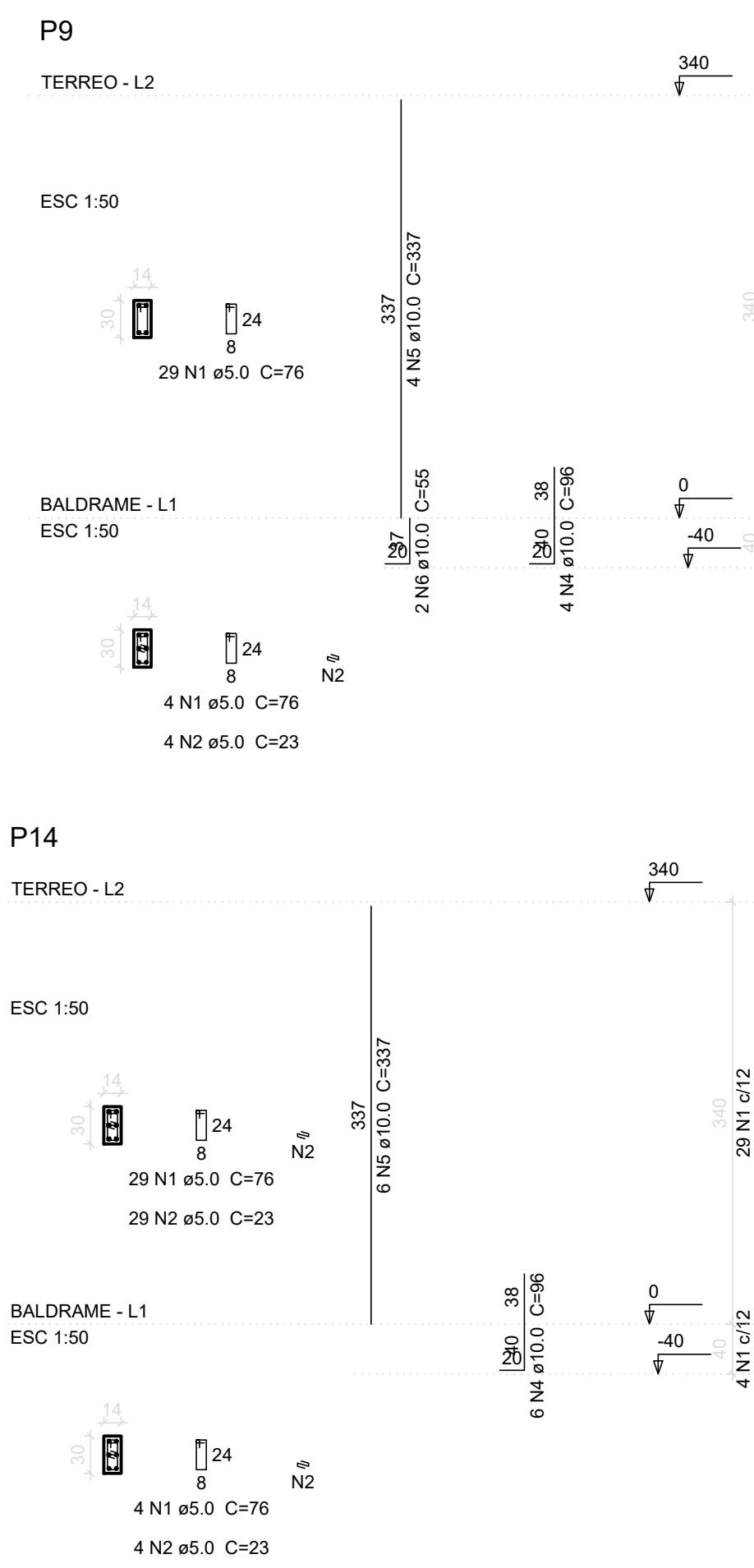
## Planta de locação

escala 1:50



## Detalhamento das estacas

SEM ESCALA



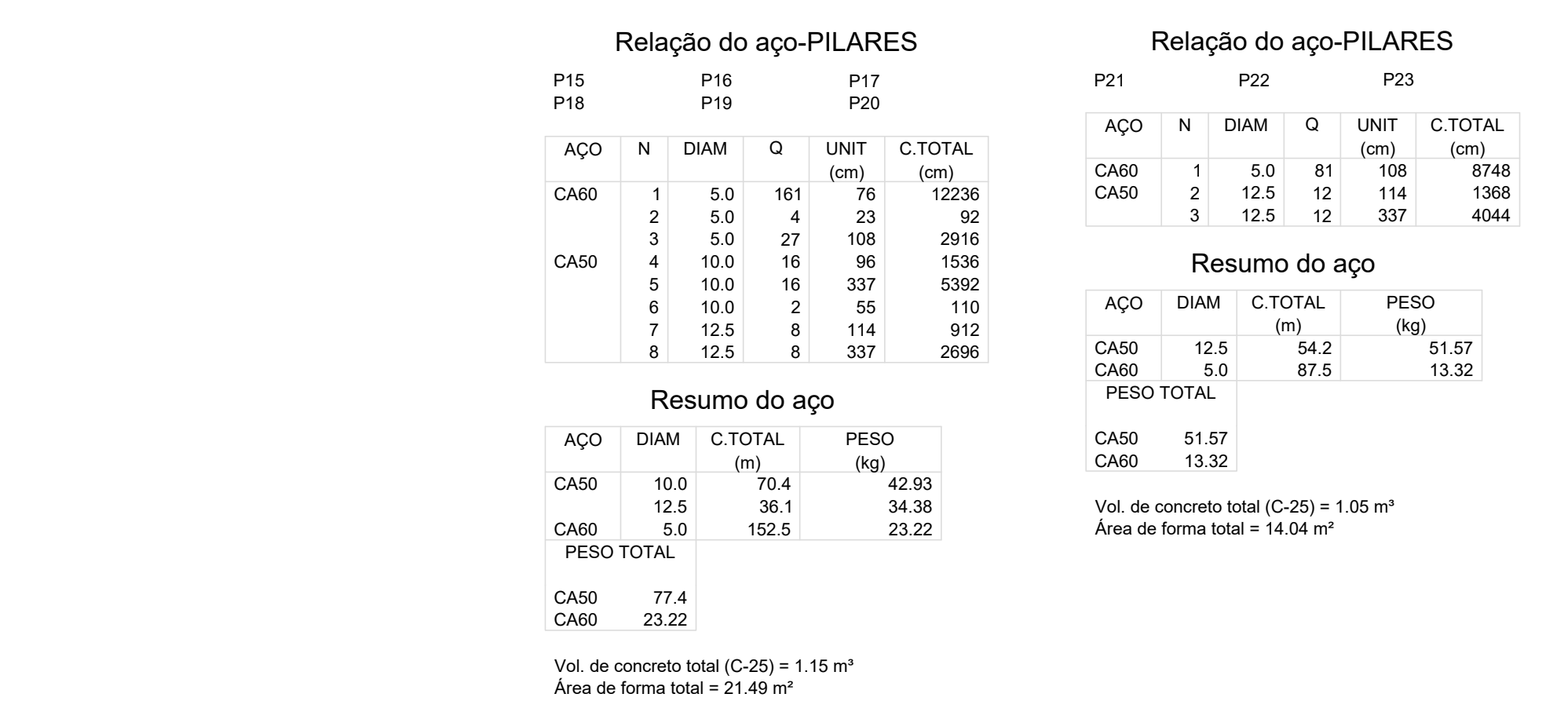
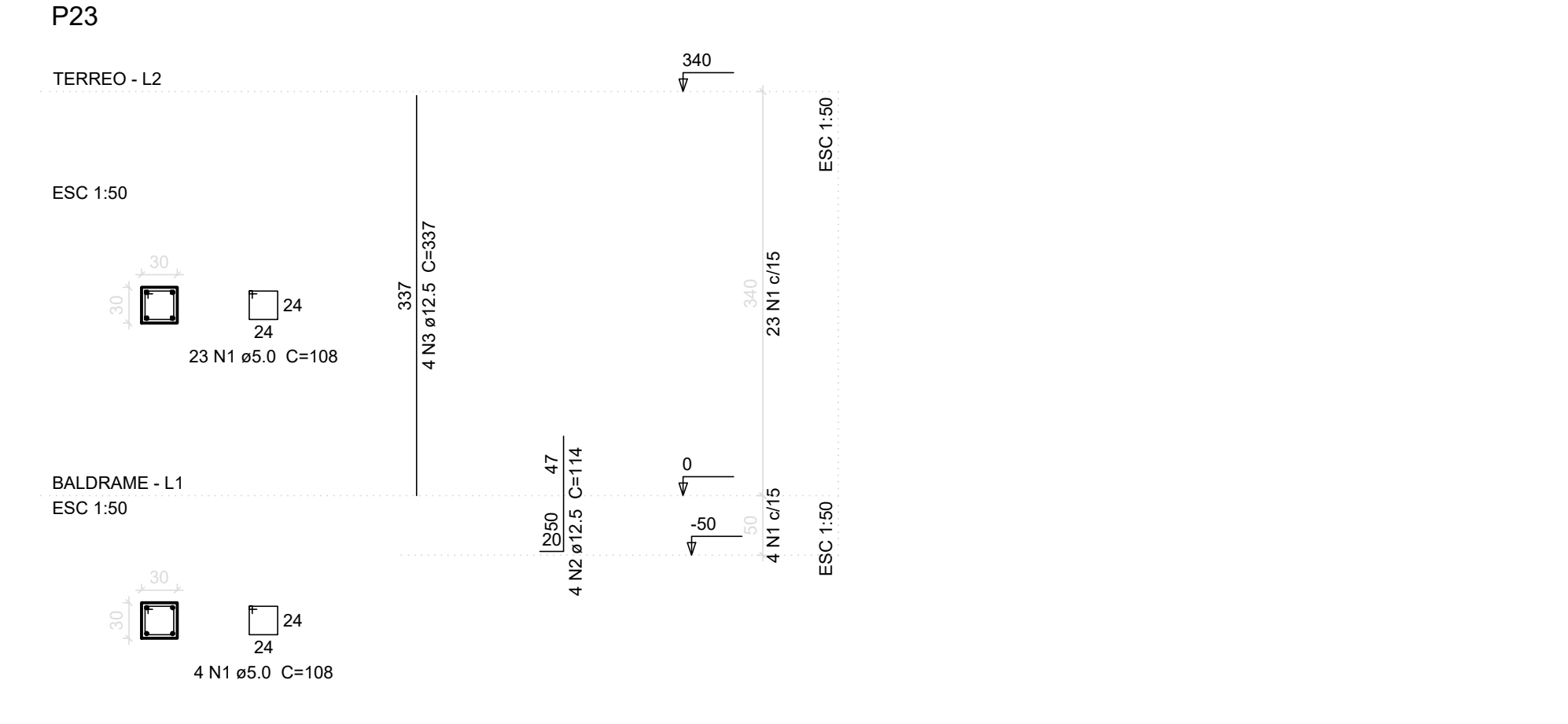
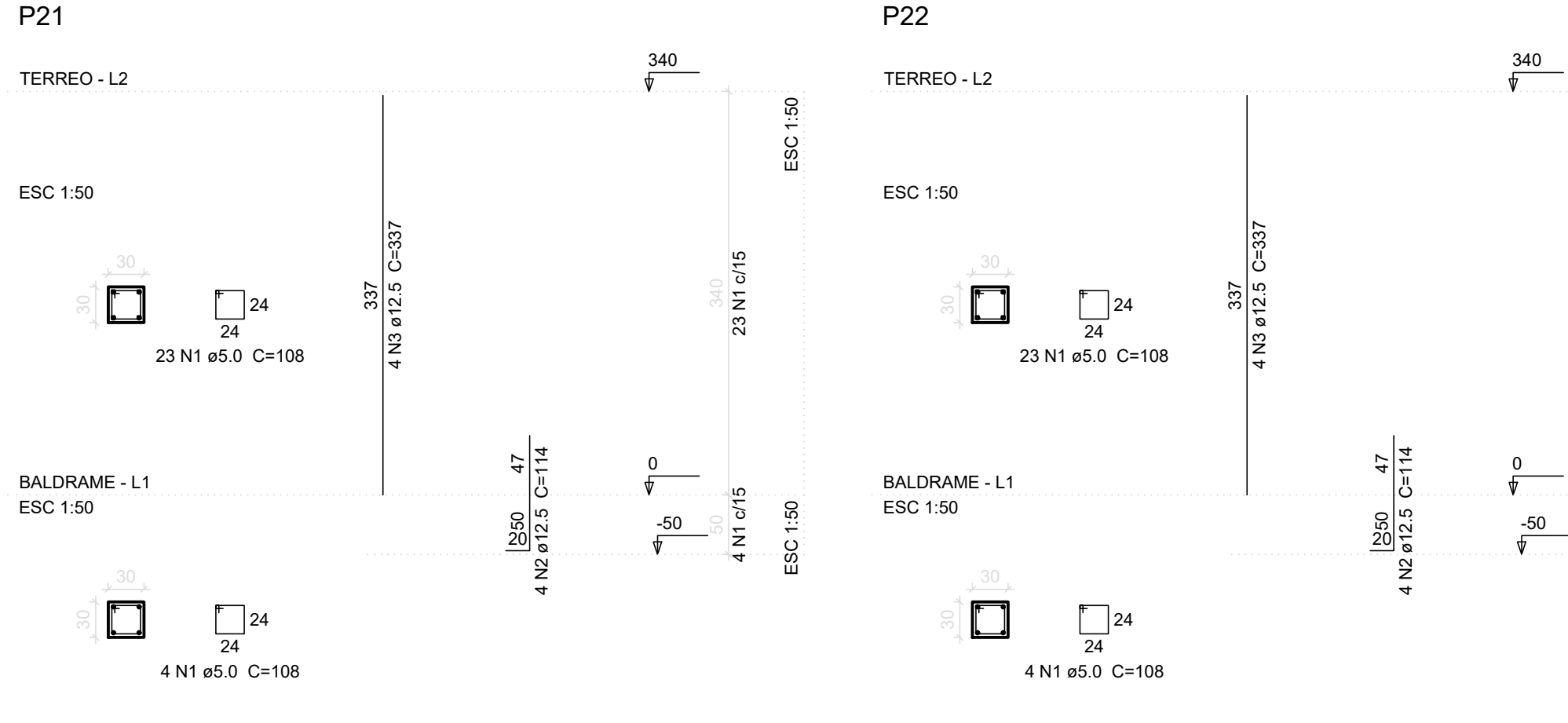
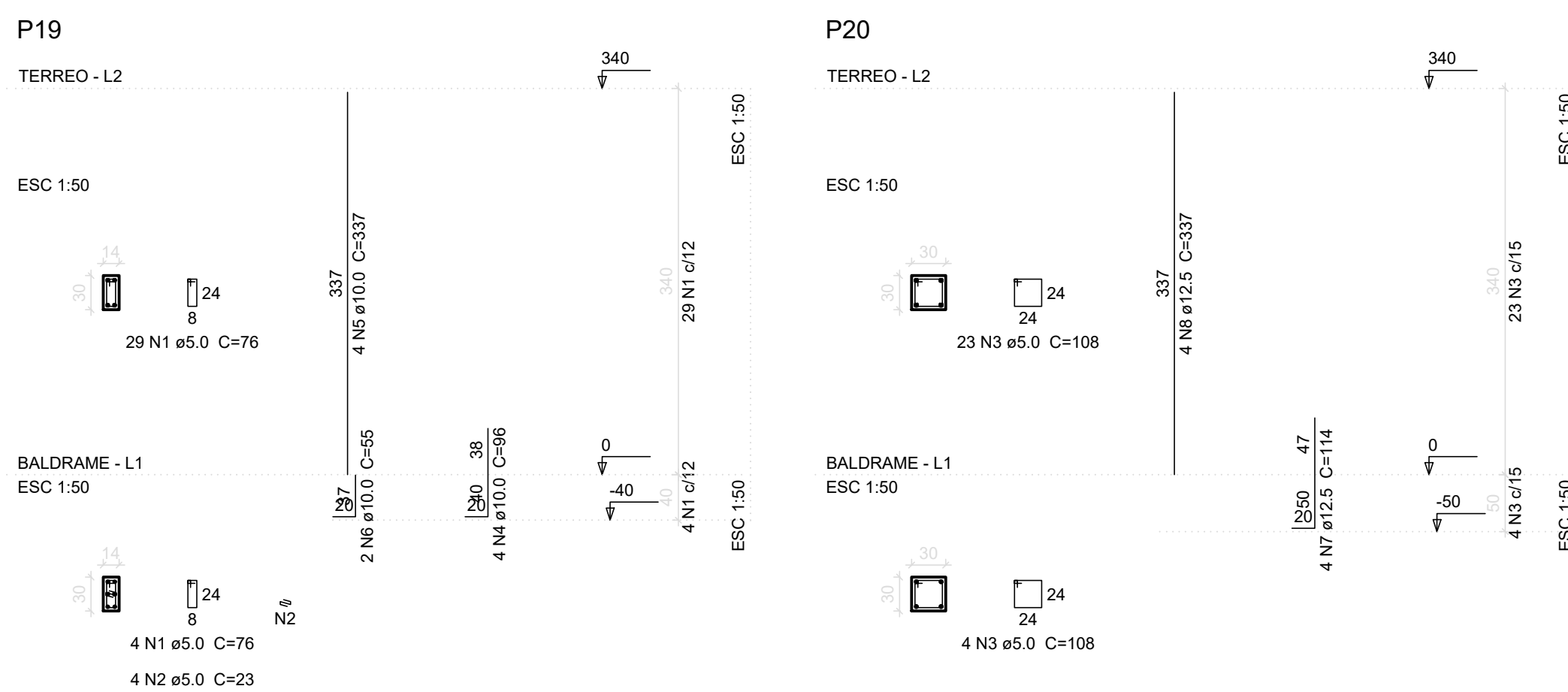
## Pilares parte(1/2)

escala indicada

### Relação do aço-BLOCOS DE FUNDAÇÃO E PILARES DE ARRANQUE

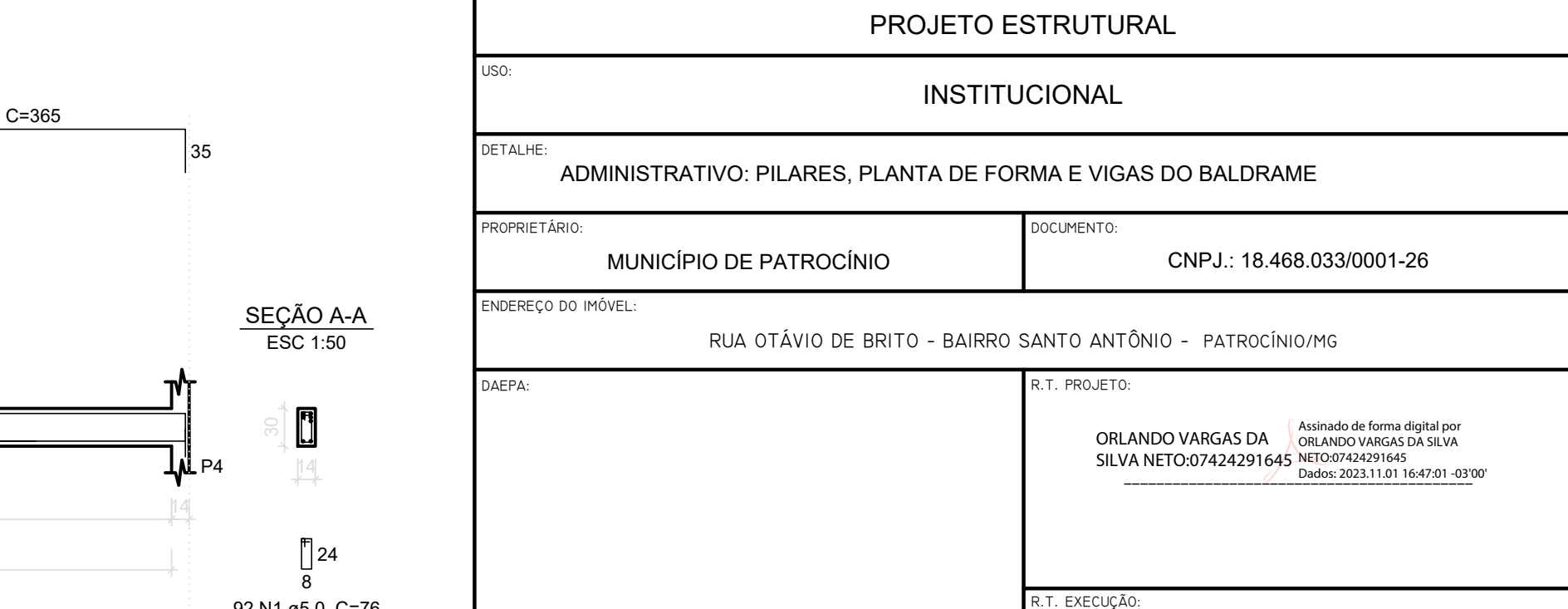
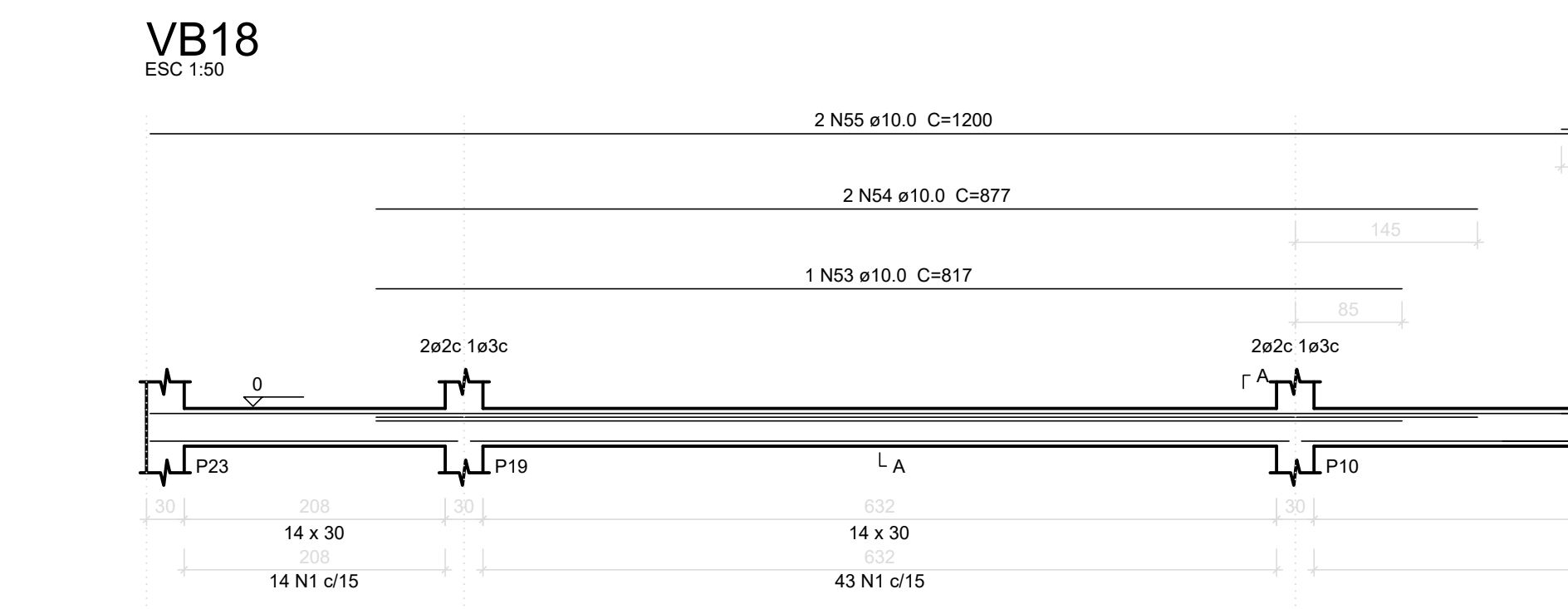
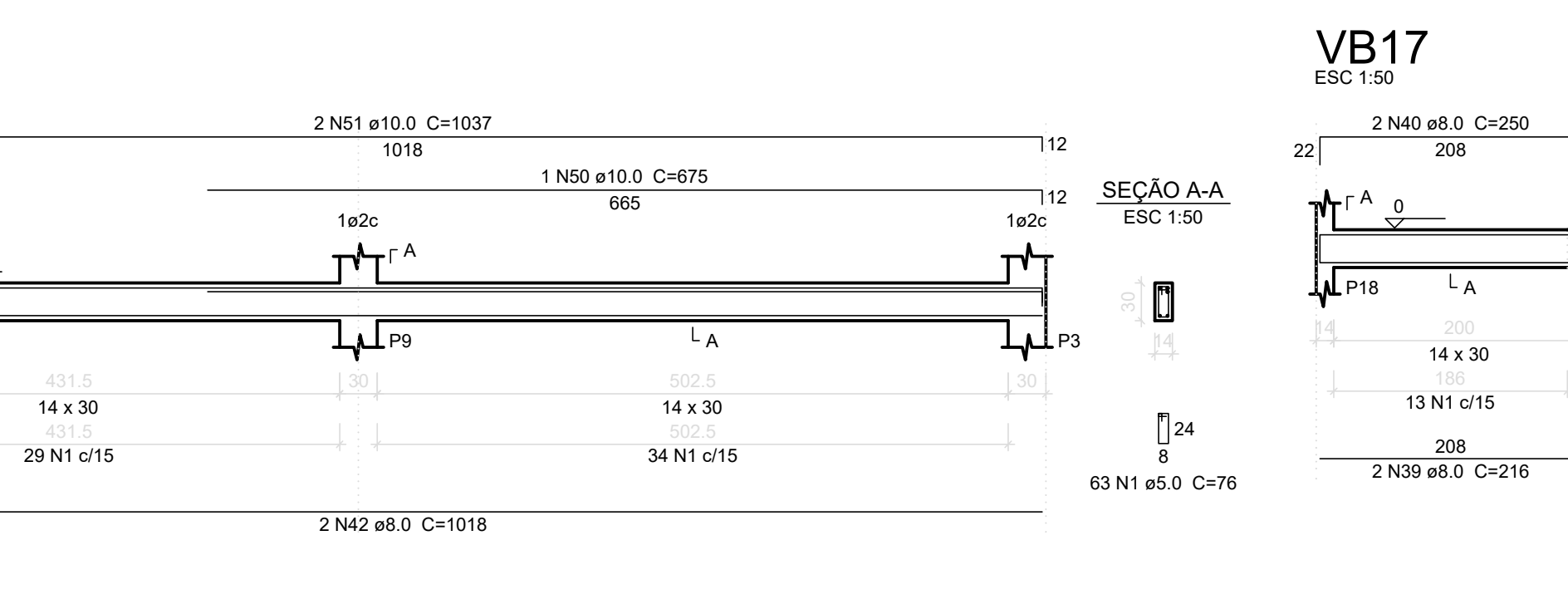
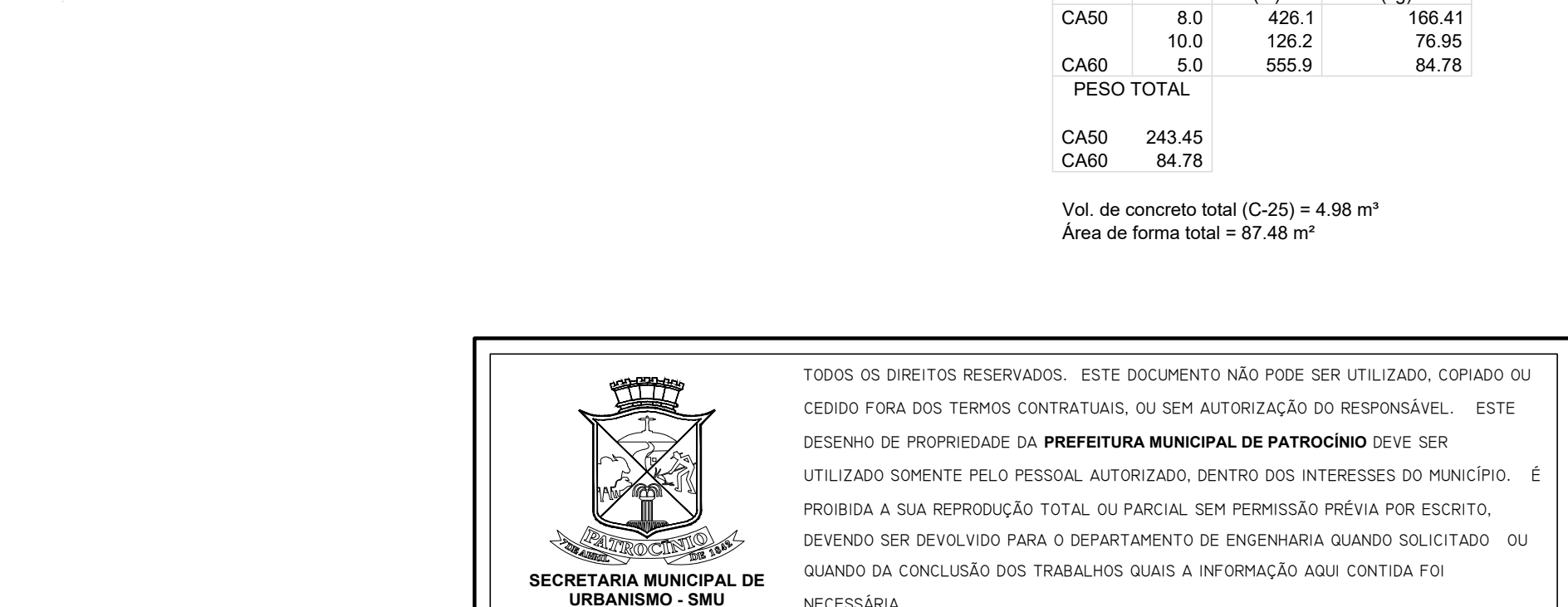
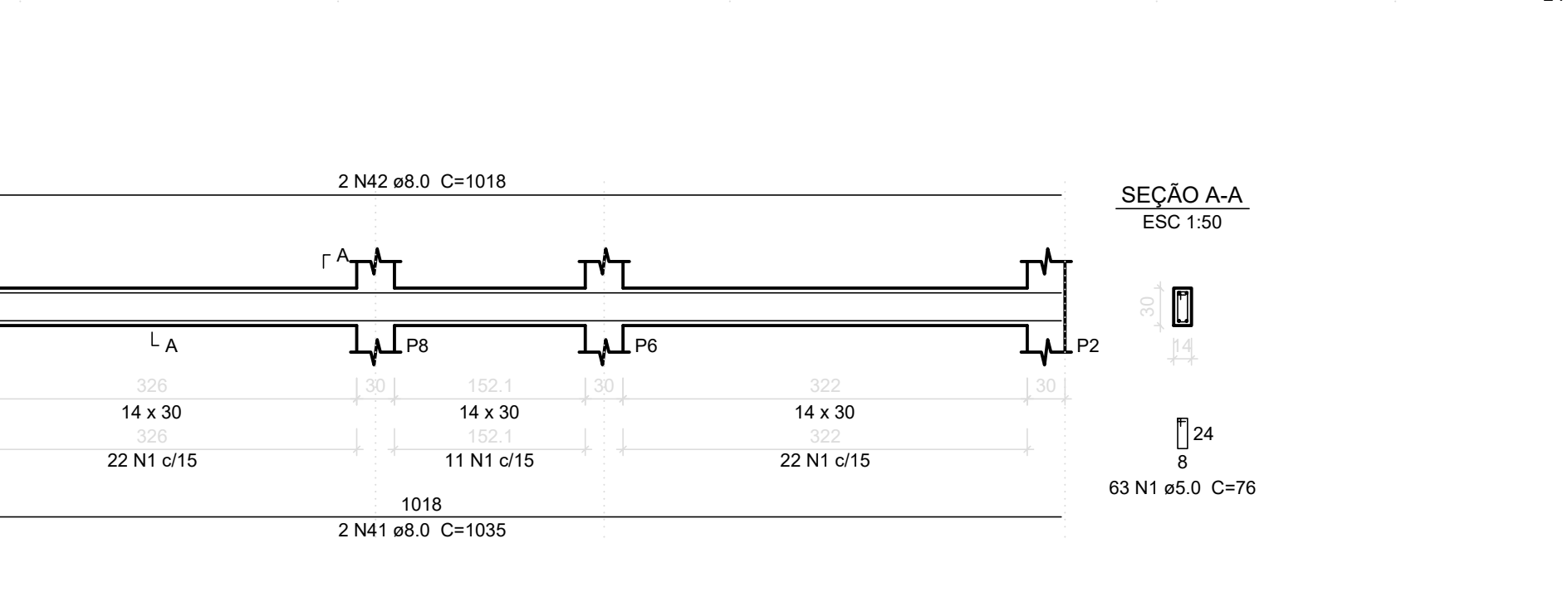
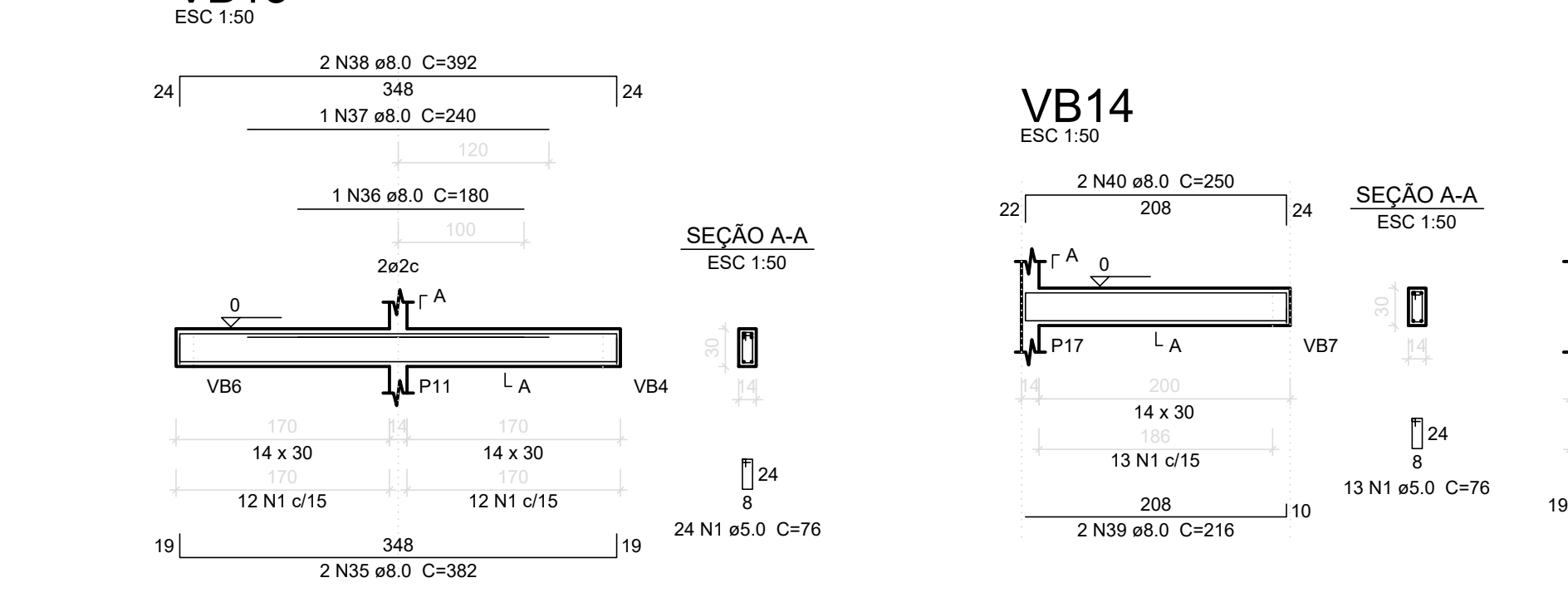
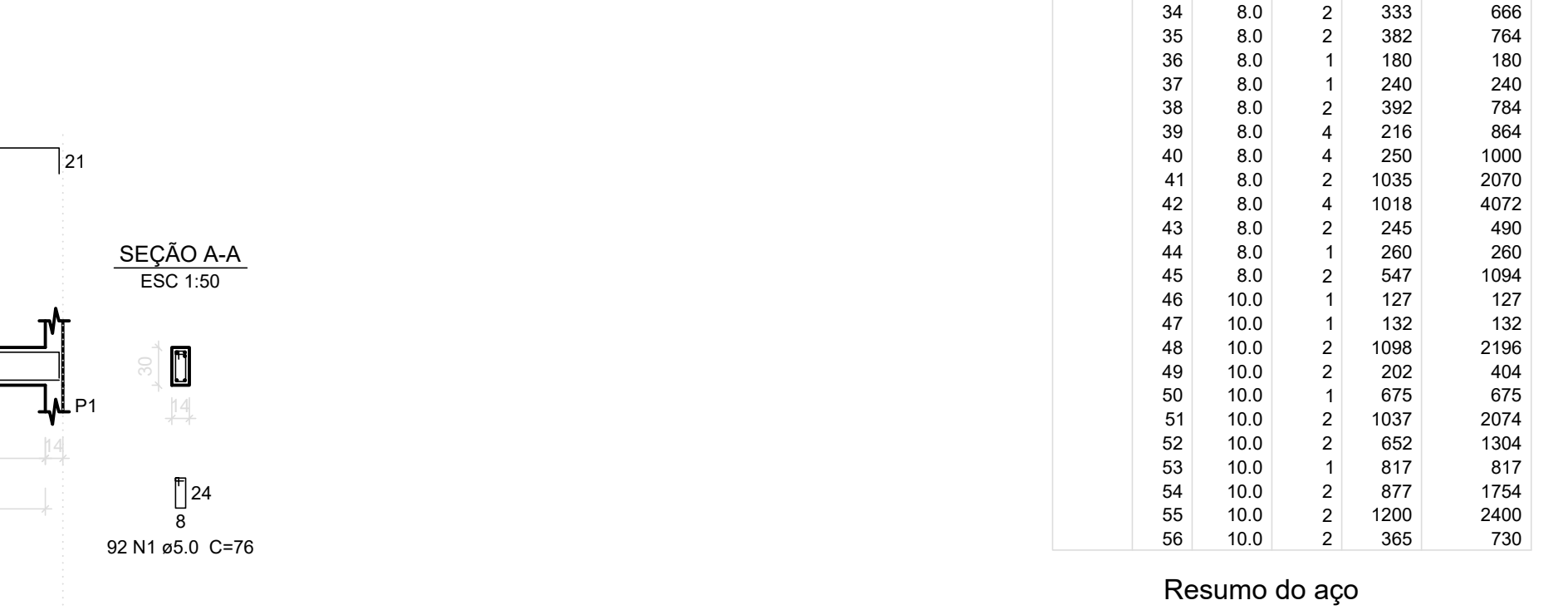
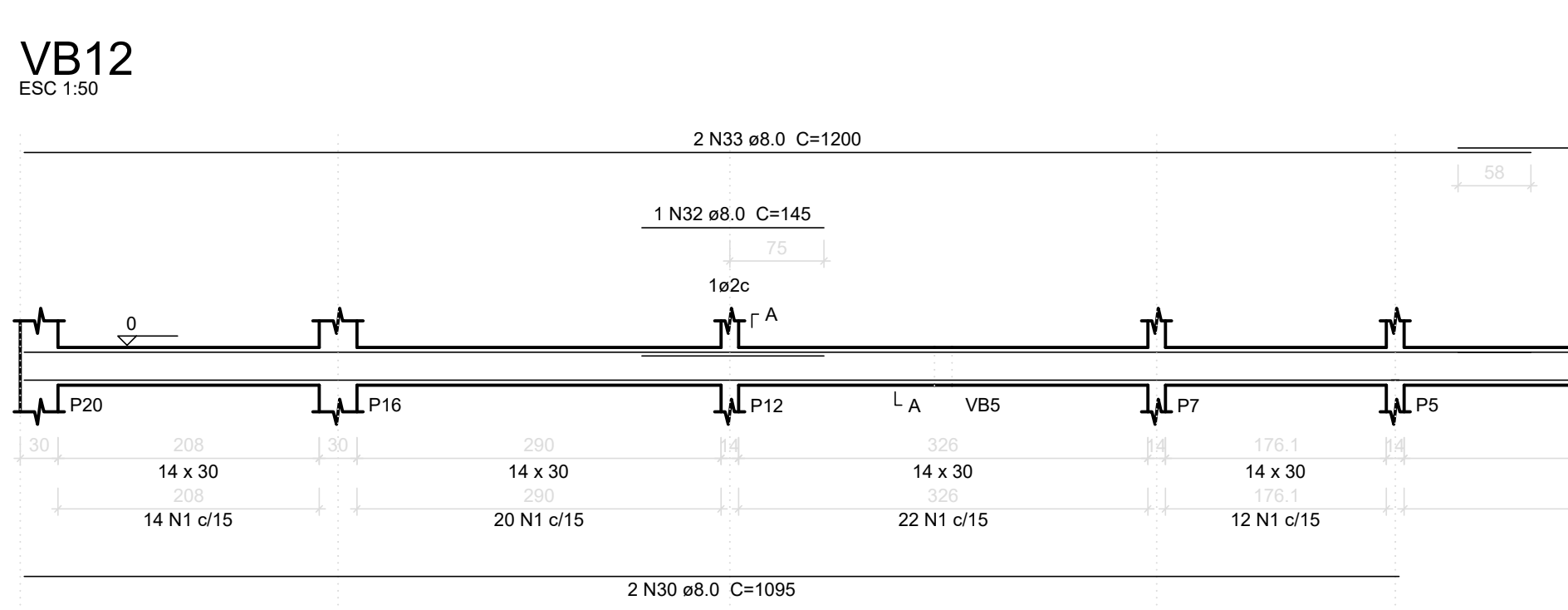
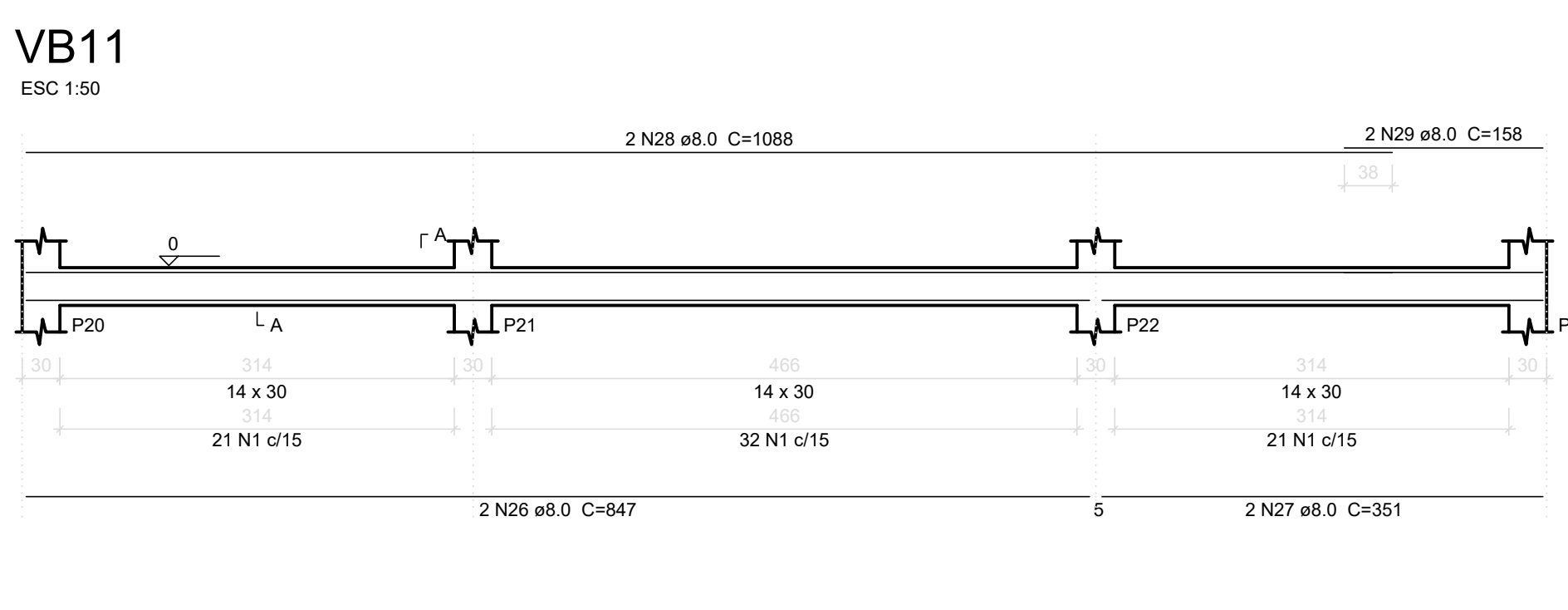
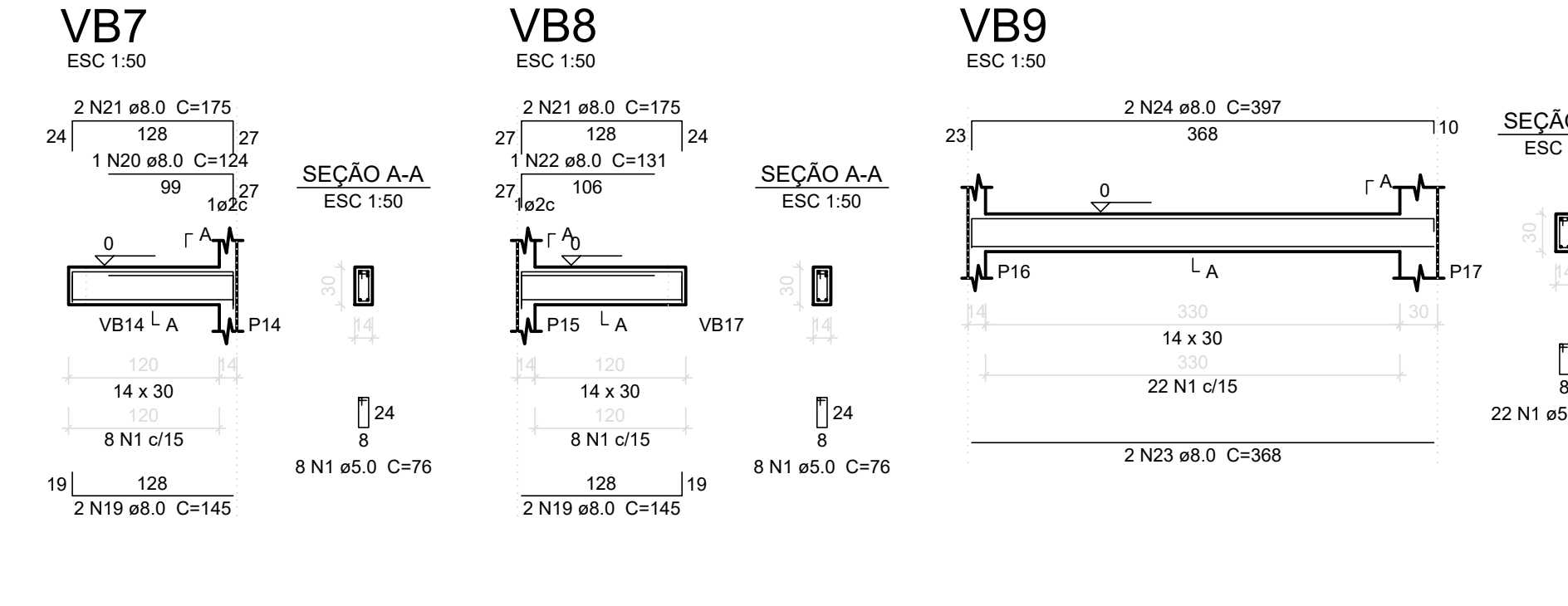
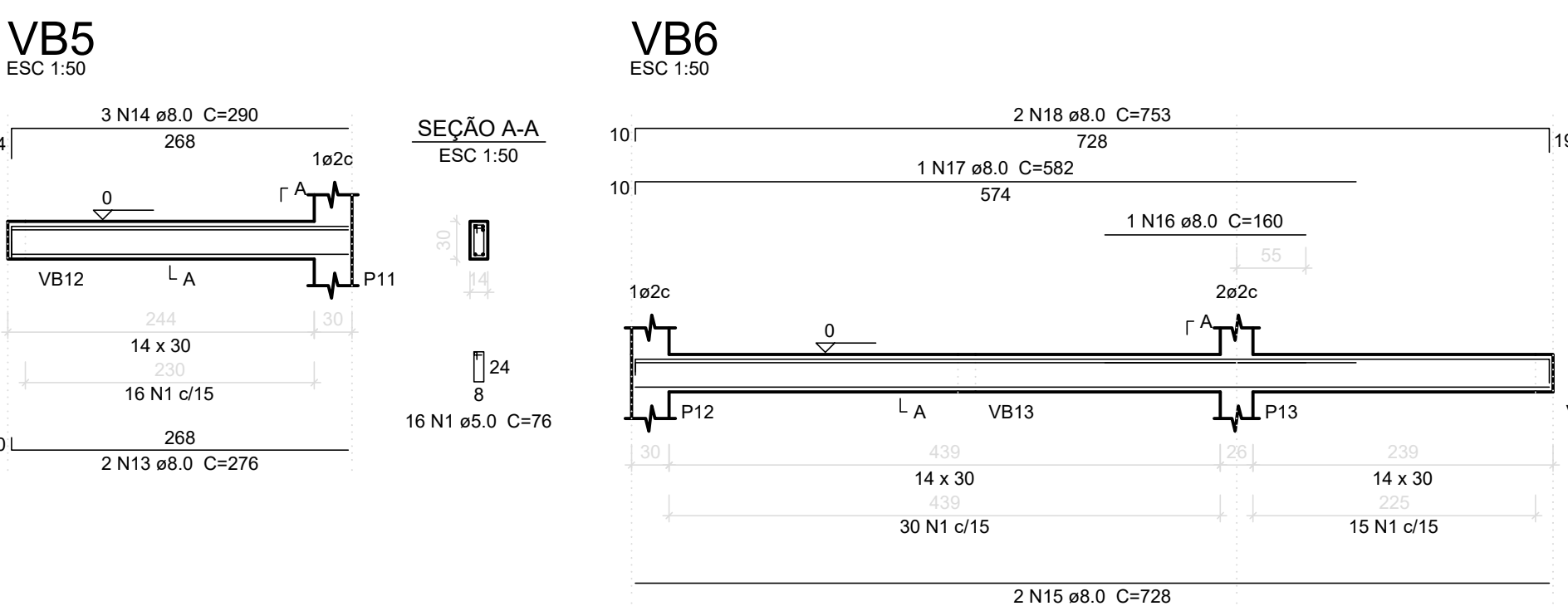
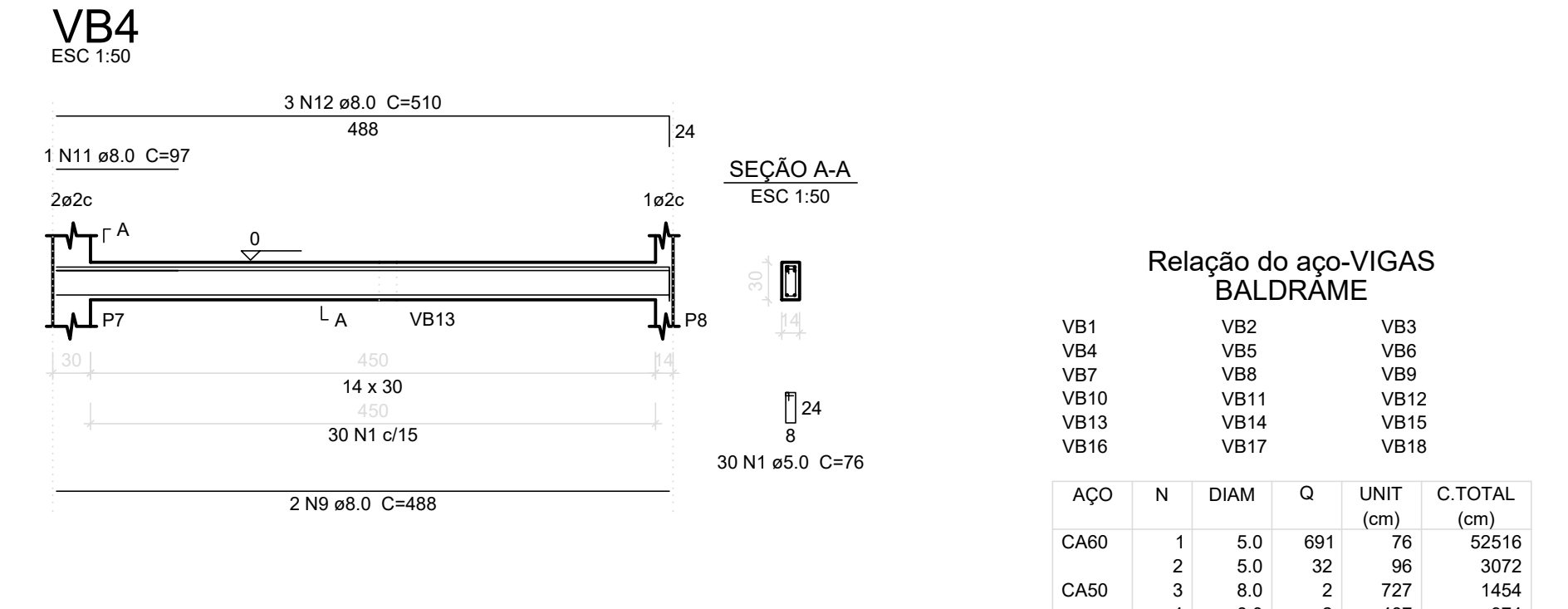
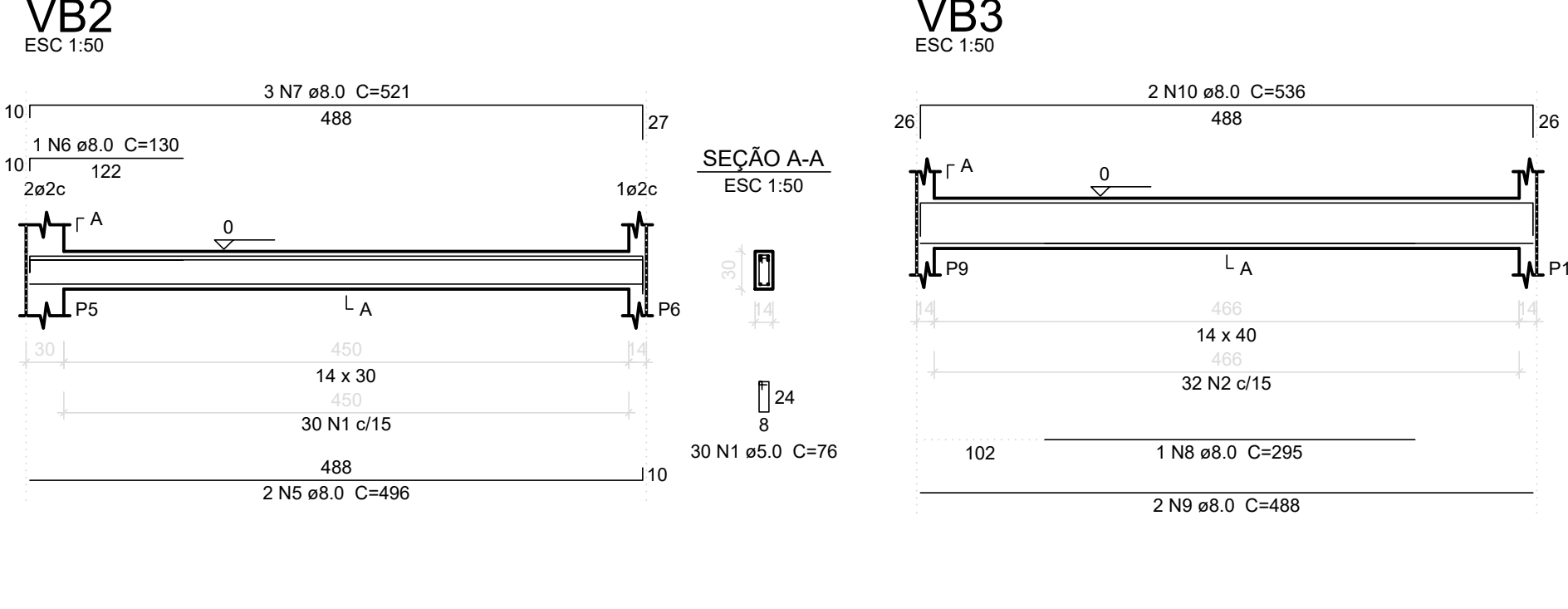
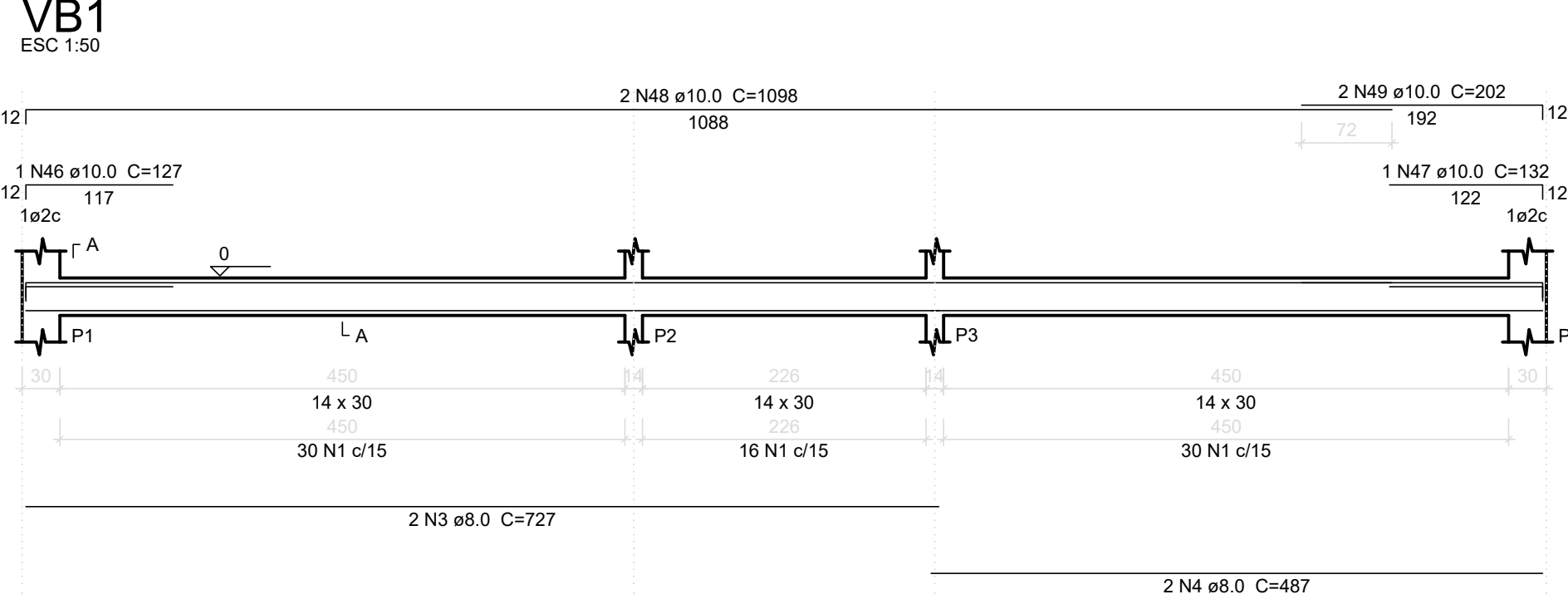
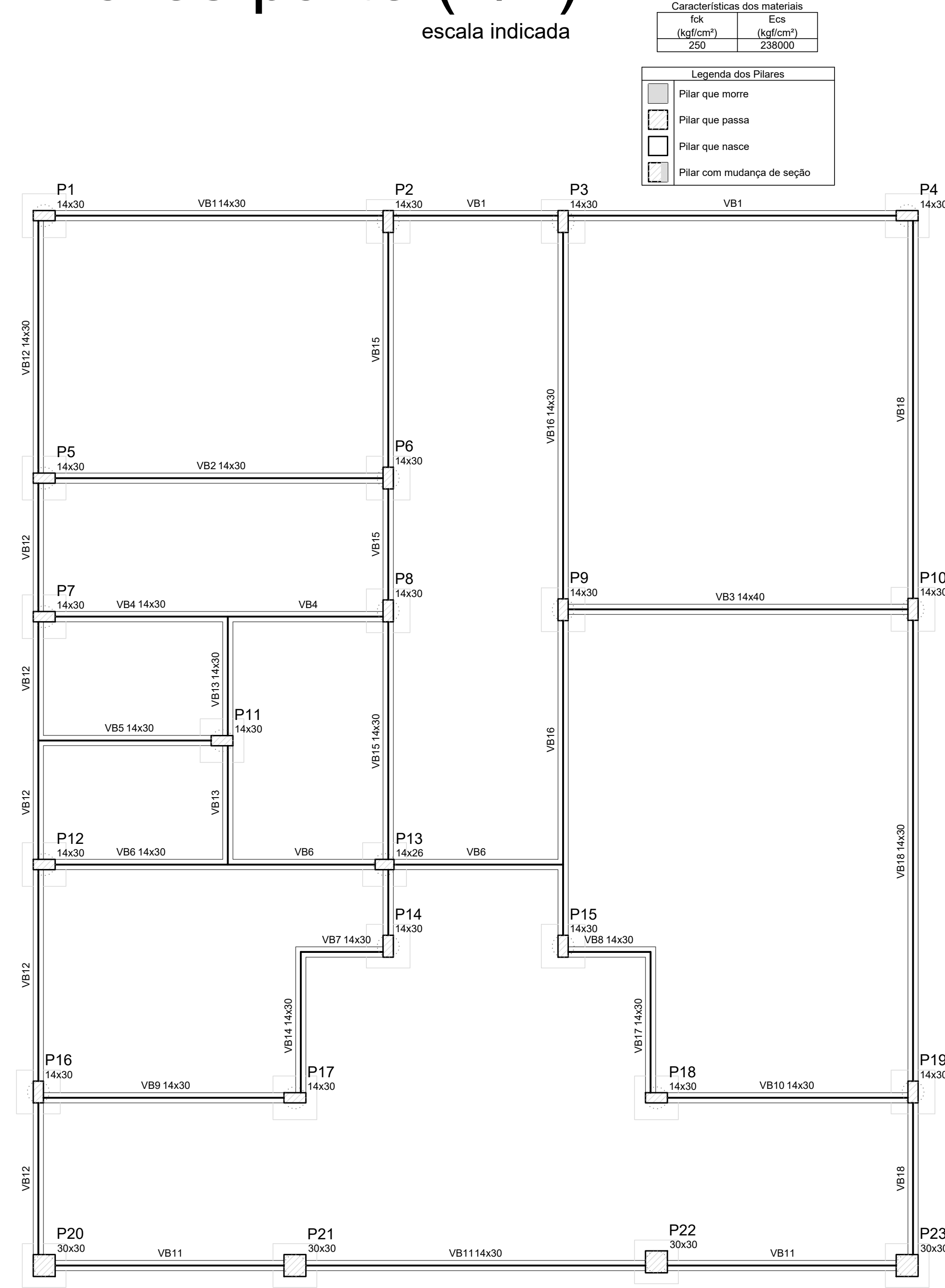
B19		B23			
AÇO	N	DIAM	Q	UN	(ct)
CA60	1	5.0		4	
	2	5.0	72		
	3	5.0	16		
	4	5.0	32		
	5	5.0	122		
	6	5.0	16		
	7	5.0	8		
CA50	8	5.0	14		
	9	10.0	68		
	10	10.0	4		
	11	12.5	32		





## Pilares parte (2/2)

escala indicada



## Forma do pavimento BALDRAME


escala 1:50

## Vigas pavimento BALDRAME

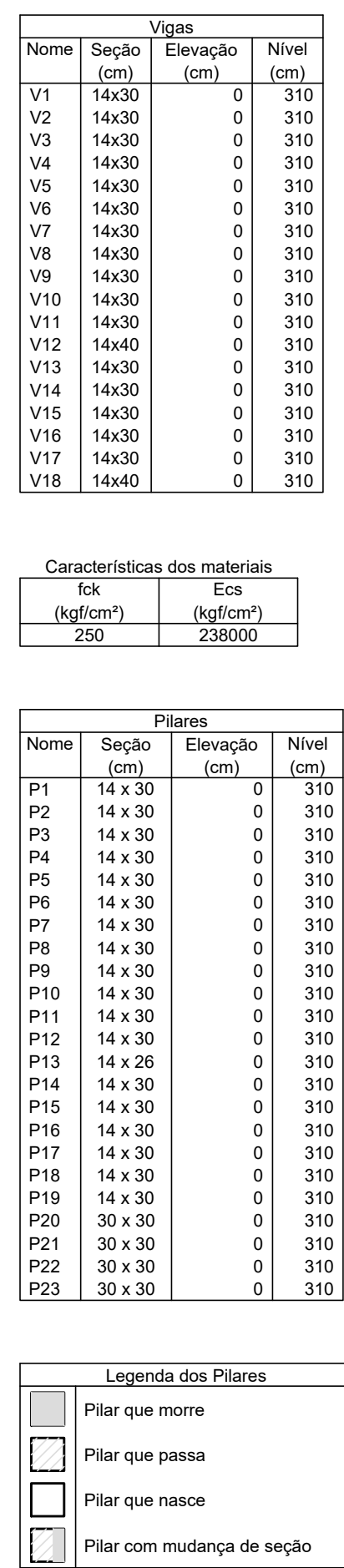
escala indicada

Relação do aço-PILARES					
P18	P19	P20	P21	P22	P23
CA60	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	161	76	12236
CA60	2	5.0	4	23	92
CA60	3	5.0	27	108	2916
CA60	4	10.0	16	96	1536
CA60	5	10.0	16	337	5392
CA60	6	10.0	2	55	110
CA60	7	12.5	8	114	912
CA60	8	12.5	8	337	2696
Resumo do aço					
CA60	N	DIAM	Q	UNIT	C.TOTAL
CA60	10.0	70.4	70.4	42.93	42.93
CA60	12.5	38.1	38.1	34.38	34.38
CA60	5.0	152.5	152.5	23.22	23.22
Vol. de concreto total (C-25) = 1.15 m³					
Área de forma total = 21.49 m²					

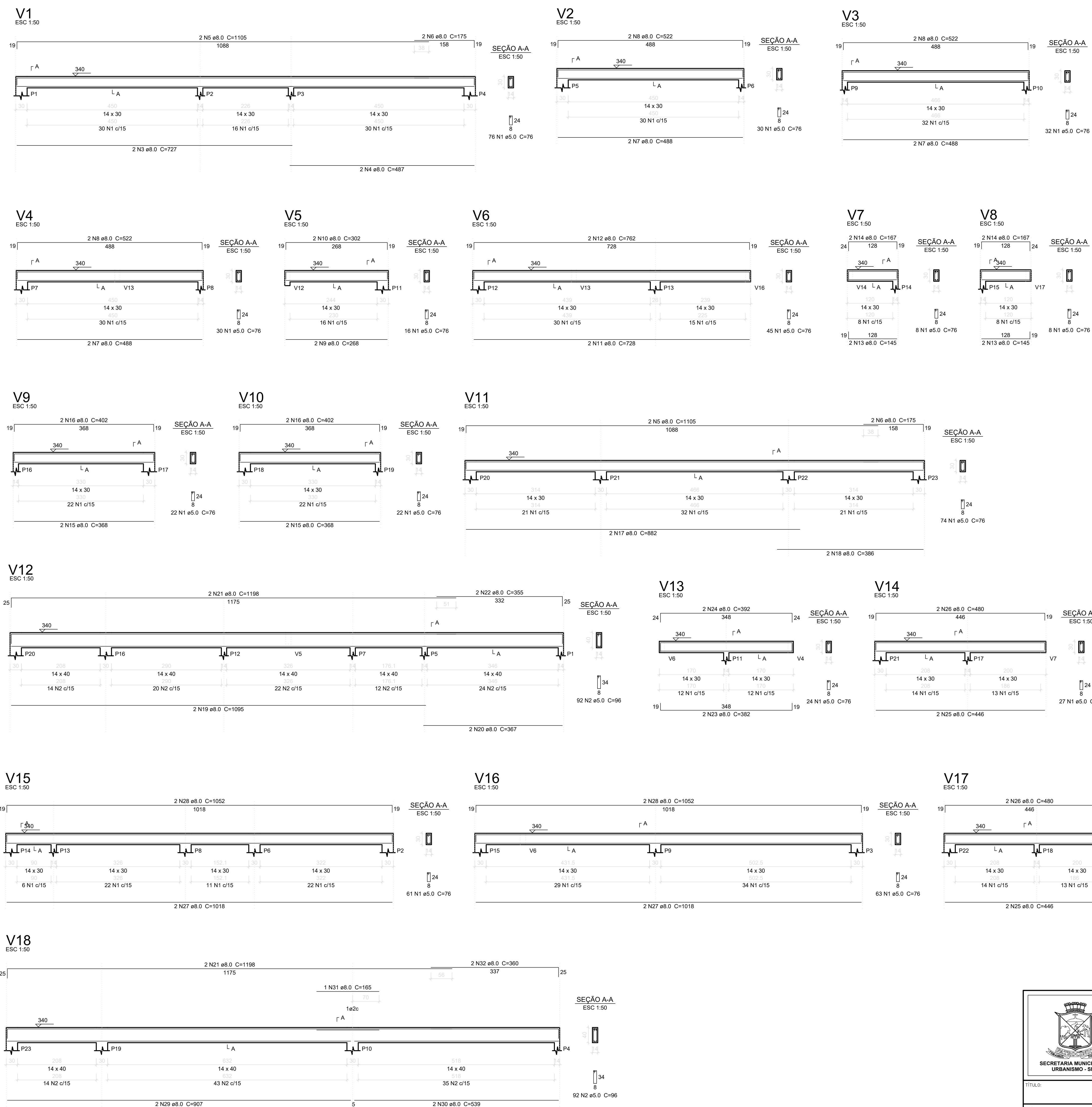
Relação do aço-VIGAS BALDRAME					
VB1	VB2	VB3	VB4	VB5	VB6
CA60	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	691	76	52215
CA60	2	5.0	32	96	3072
CA60	3	8.0	2	727	1454
CA60	4	8.0	2	487	974
CA60	5	8.0	2	496	992
CA60	6	8.0	1	130	130
CA60	7	8.0	3	521	1563
CA60	8	8.0	1	256	256
CA60	9	8.0	4	488	1952
CA60	10	8.0	2	536	1072
CA60	11	8.0	1	97	97
CA60	12	8.0	3	510	1530
CA60	13	8.0	2	276	552
CA60	14	8.0	3	290	870
CA60	15	8.0	2	728	1456
CA60	16	8.0	1	160	160
CA60	17	8.0	1	582	582
CA60	18	8.0	2	753	1506
CA60	19	8.0	4	145	580
CA60	20	8.0	1	124	124
CA60	21	8.0	4	175	700
CA60	22	8.0	1	131	131
CA60	23	8.0	2	366	732
CA60	24	8.0	2	397	794
CA60	25	8.0	2	391	782
CA60	26	8.0	2	847	1694
CA60	27	8.0	2	351	702
CA60	28	8.0	2	1086	2176
CA60	29	8.0	2	158	316
CA60	30	8.0	2	1095	2190
CA60	31	8.0	2	367	734
CA60	32	8.0	1	145	145
CA60	33	8.0	2	1200	2400
CA60	34	8.0	2	333	666
CA60	35	8.0	2	382	764
CA60	36	8.0	1	160	160
CA60	37	8.0	1	240	240
CA60	38	8.0	4	216	864
CA60	39	8.0	4	216	864
CA60	40	8.0	4	250	1000
CA60	41	8.0	2	1035	2070
CA60	42	8.0	4	1018	4072
CA60	43	8.0	2	245	490
CA60	44	8.0	1	260	260
CA60	45	8.0	2	547	1094
CA60	46	10.0	1	127	127
CA60	47	10.0	1	132	132
CA60	48	10.0	2	1098	2196
CA60	49	10.0	2	202	404
CA60	50	10.0	1	675	675
CA60	51	10.0	2	1037	2074
CA60	52	10.0	2	652	1304
CA60	53	10.0	1	817	817
CA60	54	10.0	2	677	1354
CA60	55	10.0	2	1200	2400
CA60	56	10.0	2	365	730
Resumo do aço					
CA60	N	DIAM	Q	UNIT	C.TOTAL
CA60	8.0	426.1	426.1	166.41	166.41
CA60	10.0	126.2	126.2	76.95	76.95
CA60	5.0	555.9	555.9	84.78	84.78
Vol. de concreto total (C-25) = 4.98 m³					
Área de forma total = 87.48 m²					

		TODOS OS DIREITOS RESERVADOS. ESTE DOCUMENTO NÃO PODE SER UTILIZADO, COPIADO OU CESSADO PARA FINS TERCEIROS SEM A AUTORIZAÇÃO DO RESPONSÁVEL. ESTE DESENHO É PROPRIEDADE DA PREFEITURA MUNICIPAL DE PATROCÍNIO DE MINAS. É PROIBIDA A SUA REPRODUÇÃO TOTAL OU PARCIAL SEM PERMISSÃO PRÉVIA POR ESCRITO. DEVENDO SER DEVOLVIDO PARA O DEPARTAMENTO DE ENGENHARIA QUANDO SOLICITADO. QUANDO DA CONCLUSÃO DOS TRABALHOS QUAIS A INFORMAÇÃO AQUI CONTEIDA FOI NECESSÁRIA.					
TÍTULO: PROJETO ESTRUTURAL							
USO: INSTITUCIONAL							
DETALHE: ADMINISTRATIVO: PILARES, PLANTA DE FORMA E VIGAS DO BALDRAME							
PROPRIETÁRIO:	MUNICÍPIO DE PATROCÍNIO	DOCUMENTO:	CNPJ: 18.468.033/0001-26				
ENDEREÇO DO IMÓVEL:	RUA OTÁVIO DE BRITO - BAIRRO SANTO ANTÔNIO - PATROCÍNIO/MG						
DONA:	A.T. PROJETO: ORLANDO VARGAS DA SILVA SILVIA NETUNO KAZIANOVA Data: 2023.11.15 16:00:03 W						
R.T. EXECUÇÃO:		R.T. ENGENHEIRO:					
S.R.U.:							
PROPRIETÁRIO:							
MUNICÍPIO DE PATROCÍNIO DEPT. DE ENGENHARIA DEPT. DE PATROCÍNIO							
O RESPONSÁVEL TÉCNICO PELA OBRA E/OU AUTOR DO PROJETO ASSUME PRAVANTE O IMÓVEL E TERCEIROS QUE TODAS AS CONDIÇÕES PREVISTAS NO PROJETO ARQUITETÔNICO ESTÃO DE ACORDO COM AS NBR'S E CÓDIGO CIVIL BRASILEIRO.							
Nº DE ANEXOS	Nº DE PÁGINAS	ÁREA DO LOTE (m²)	ÁREA DE PROJEÇÃO (m²)	ZONAMENTO URBANO	TAXA DE OCUPAÇÃO (%)	PERMITECIBILIDADE (%)	CONDIÇÃO DE APROPRIAMENTO
01	01	3.280,00	1.068,73	2M	32,58%	54,07%	0,32
ÁREAS CONSTRUTIVAS (m²)		Á INCLUIR (m²)		Á DESPILAR (m²)		TOTAL (m²)	
PRINCIPAL		-		-		1.068,73	
DEPENDÊNCIA		-		-		-	
SETOR:	SUBSETOR:	LOTE:	INDICADA	114	ESCALA:	DATA:	FECHA:
28	024				OUT / 2023	02 / 13	






escala 1:50

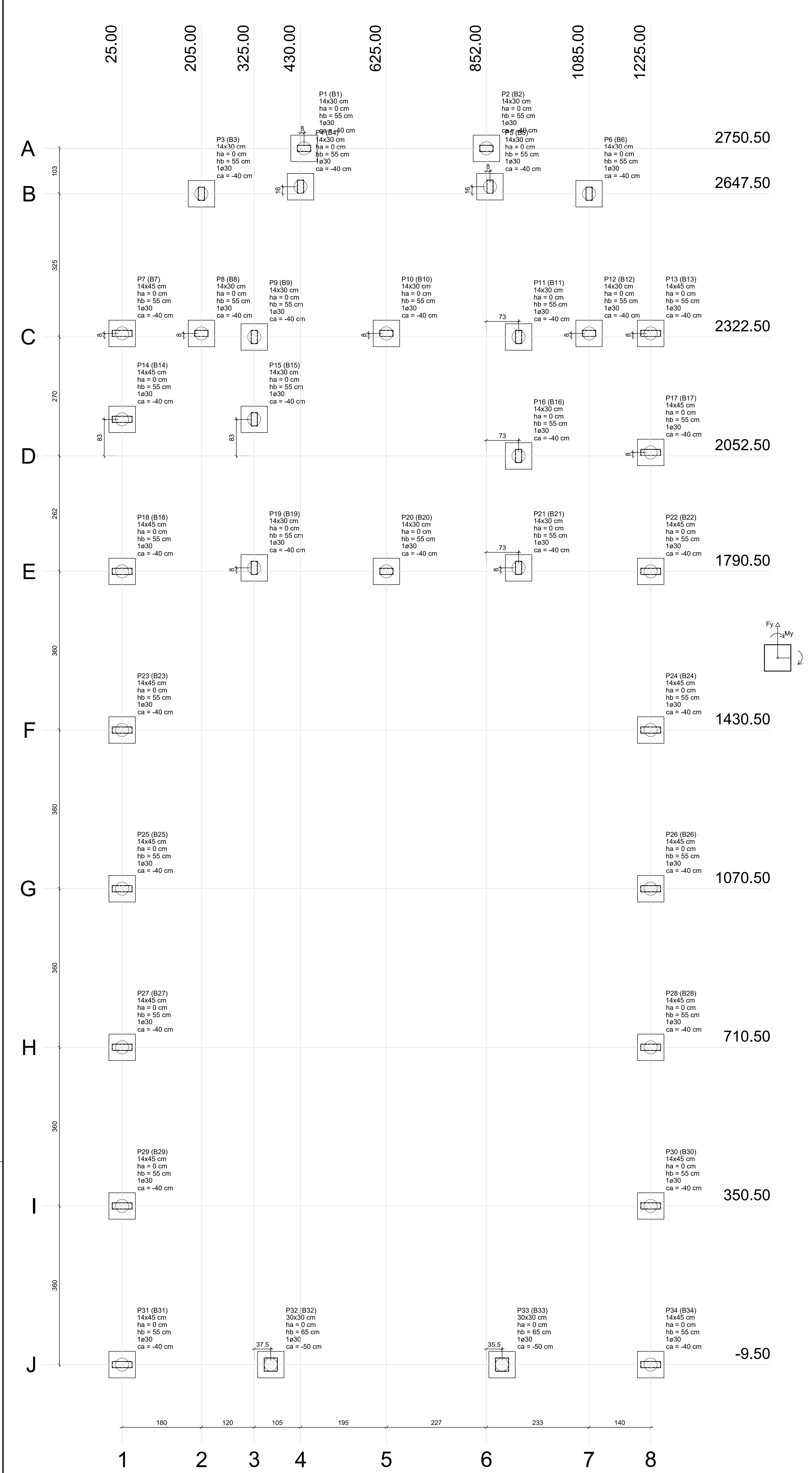


Relação do aço-VIGAS						
TÉRREO						
	V1	V2	V3			
	V4	V5	V6			
	V7	V8	V9			
	V10	V11	V12			
	V13	V14	V15			
	V16	V17	V18			
CAO	7	5,0	565	36	42040	
	8	5,0	184	96	17664	
CA50	3	8,0	2	727	1464	
	4	8,0	2	487	974	
	5	8,0	4	1105	4240	
	6	8,0	4	570	703	
	7	8,0	6	488	2828	
	8	8,0	6	522	3132	
	9	8,0	2	280	536	
	10	8,0	2	302	604	
	11	8,0	2	728	1468	
	12	8,0	2	762	1524	
	13	8,0	4	145	580	
	14	8,0	4	167	668	
	15	8,0	4	368	1472	
	16	8,0	4	410	1656	
	17	8,0	2	882	1764	
	18	8,0	2	366	732	
	19	8,0	2	1009	2190	
	20	8,0	2	387	812	
	21	8,0	4	1198	4392	
	22	8,0	2	355	710	
	23	8,0	2	382	764	
	24	8,0	2	302	784	
	25	8,0	4	446	1794	
	26	8,0	4	460	1820	
	27	8,0	4	1018	4072	
	28	8,0	4	1052	4240	
	29	8,0	2	907	1914	
	30	8,0	2	939	1978	
	31	8,0	1	169	345	
	32	8,0	2	360	720	

## escala indicada

 <p><b>SECRETARIA MUNICIPAL DE URBANISMO - SNU</b></p>	<p> TODOS OS DIREITOS RESERVADOS. ESTE DOCUMENTO NÃO PODE SER UTILIZADO, CÓPIADO OU CÉDULO FORA DOS TERMEIROS CONTRATUAIS, OU SEM AUTORIZAÇÃO DO RESPONSÁVEL. ESTE DESENHO DE PROPRIEDADE DA PREFEITURA MUNICIPAL DE PATROCÍNIO SEU SER UTILIZADO SOMENTE PELA PESSOAL AUTORIZADA, DENTRO DOS INTERESSES DO MUNICÍPIO. É PROIBIDA A SUA REPRODUÇÃO TOTAL OU PARCIAL, SEM PERMISSÃO PRÉVIA POR ESCRITO, DEVENDO SER CANCELADA POR DO DEPARTAMENTO DE ENGENHARIA QUANDO SOLICITADO OU QUANDO DA CONCLUSÃO DOS TRABALHOS QUAIS A INFORMAÇÃO AQUI CONTIDA FOR NECESSÁRIA. </p>						
<h2 style="margin: 0;">PROJETO ESTRUTURAL</h2>							
<h3 style="margin: 0;">INSTITUCIONAL</h3>							
<p><b>DETALHE: ADMINISTRATIVO: PLANTA DE FORMA E VIGAS DO TÉRREO</b></p>							
<b>PROPRIETÁRIO:</b> MUNICÍPIO DE PATROCÍNIO	<b>DOCUMENTO:</b> CNPJ.: 18.468.033.0001-26						
<b>ENDEREÇO DO PROJETO:</b> RUA OTÁVIO DE BRITO - BAIRRO SANTO ANTONIO - PATROCÍNIO/GO							
<b>DATA:</b>	<b>R.1 - PROJETO:</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <b>ORLANDO VARGAS DA SILVA</b>  <b>NETO/0742491645</b>  <div style="font-size: 0.8em; margin-top: 5px;"> <i>Assinado em nome digital por</i>  <b>ORLANDO VARGAS DA SILVA</b>  <b>IDENTIFICADORA</b>  <i>Desde 2023.11.09 16:47:31 - 03:59</i> </div> </div>						
<b>S.1/RU:</b>	<b>R.1 - EXECUÇÃO:</b> <div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div>						
<b>PROPOSTADO:</b> <div style="border: 1px solid black; padding: 10px; margin-top: 10px; text-align: center;"> <p><b>MUNICÍPIO DE PATROCÍNIO</b></p> <p> CPF.: 16.668.00000-11  <b>CERVO ROBERTO BARBOSA</b>  <b>PREFEITO MUNICIPAL</b> </p> </div>							
<p style="text-align: center; font-size: 0.8em;">O RESPONSÁVEL TÉCNICO PELA OBRA CRIA O AUTORA DO PROJETO ASSINAR PORANTE O MUNICÍPIO E TERREIRO QUE TODAS AS CONDIÇÕES PREVISTAS NO PROJETO ARQUITETÔNICO ESTÃO DE ACORDO COM AS NBR'S E CÓDIGO CIVIL BRASILEIRO.</p>							
<b>Nº DE ANÁLISES</b>	<b>Nº DE PAVIMENTOS</b>	<b>ÁREA DO LOTE (m²)</b>	<b>ÁREA DE PROJEÇÃO (m²)</b>	<b>ZONEAMENTO (Escala)</b>	<b>TAXA DE OCUPAÇÃO (%)</b>	<b>TAXA DE PERMEABILIDADE (%)</b>	<b>COEFICIENTE DE APERTAMENTO (CA)</b>
01	01	3.280,00	1.068,73	ZM	32,58%	54,07%	0,32
<b>ÁREAS CONTRIBUIÇÃO (m²)</b>	<b>A INCLUIR (m²)</b>	<b>A REMOVER (m²)</b>	<b>A CONTRIBUIR (m²)</b>	<b>TOTAL (m²)</b>			
PRINCIPAL	+	+	-	1.068,73	1.068,73		
<b>DEPENDÊNCIA</b>	+	+	+	+	+		
<b>SETOR:</b> 28	<b>QUADRA:</b> 024	<b>LOTE:</b> 114	<b>ESCALA:</b> INDICADA	<b>DATA:</b> OUT / 2023	<b>FOLHA:</b> 03 / 13		

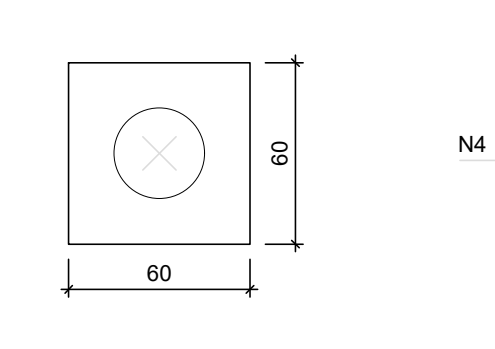
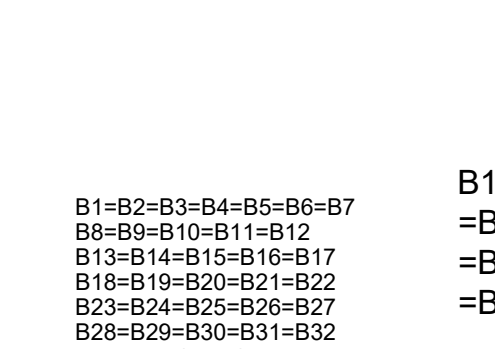
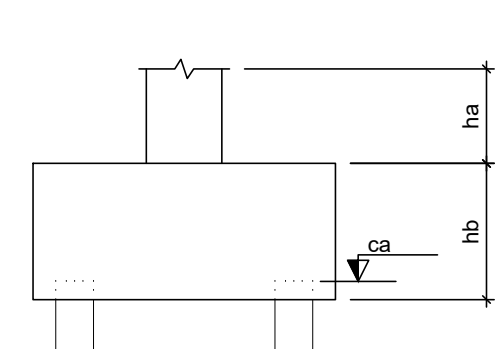




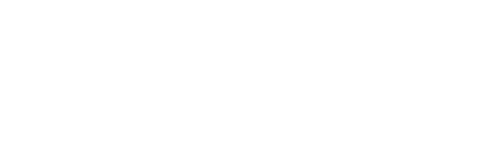
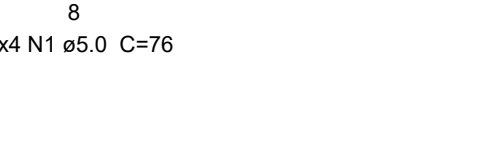
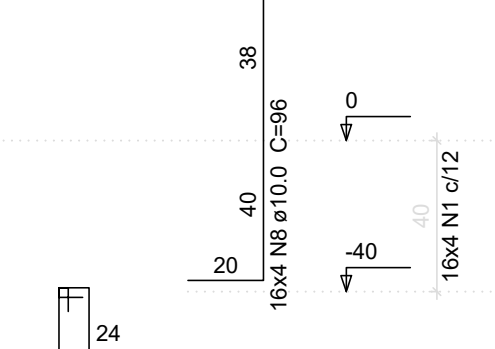
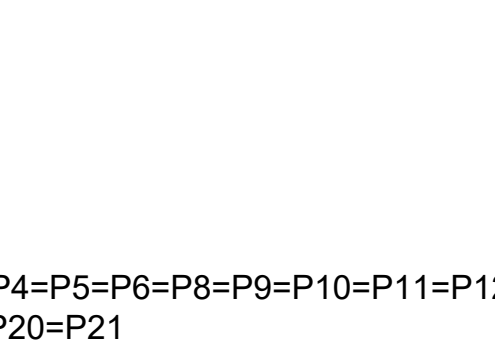
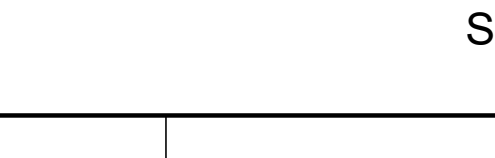
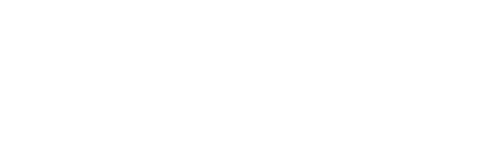
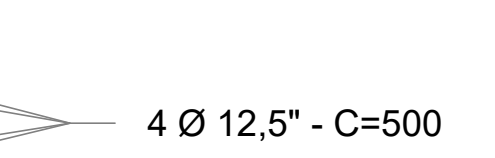
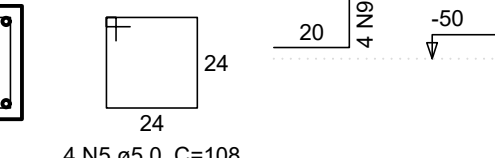
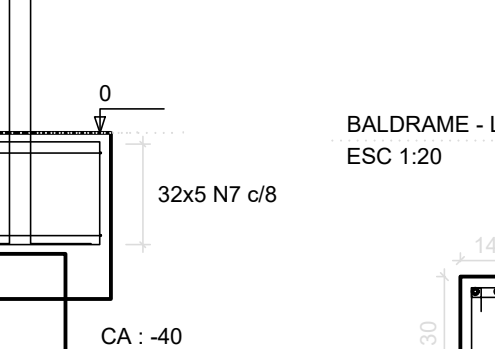
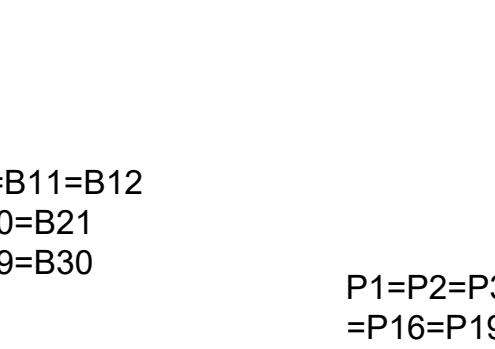
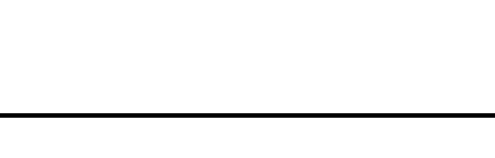
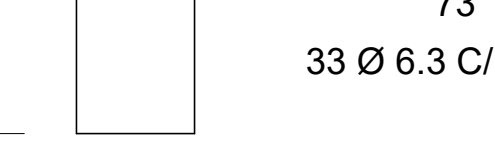
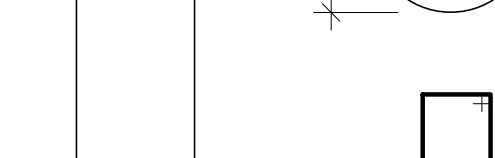
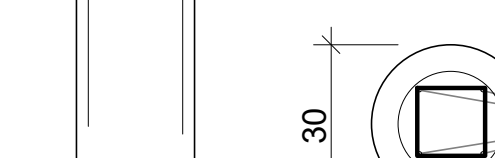
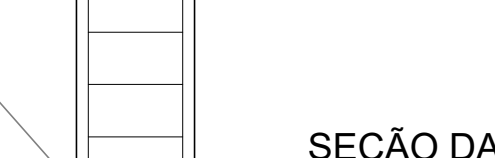
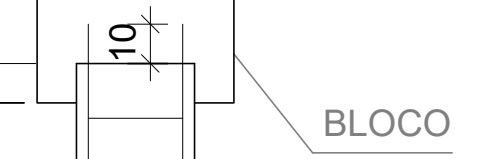
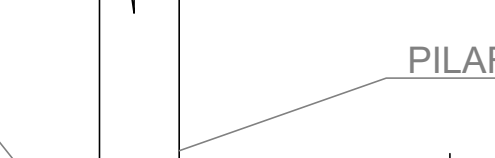
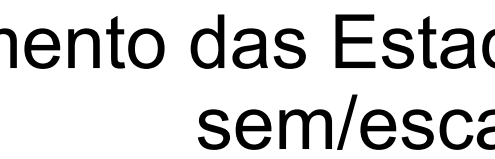
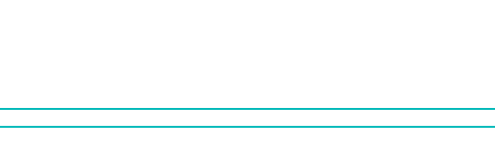
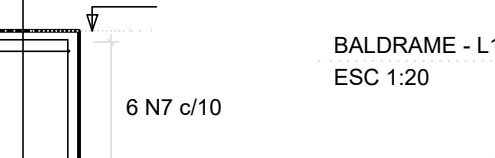
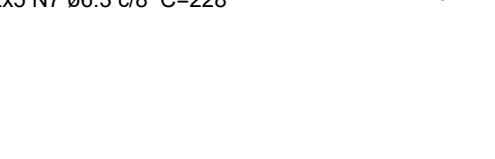
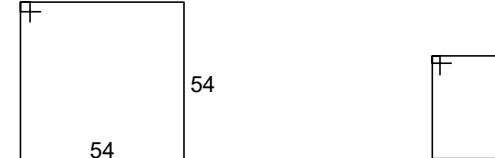
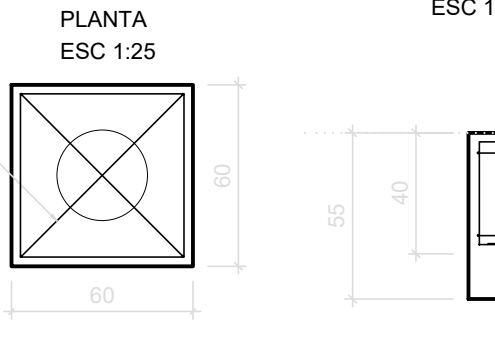
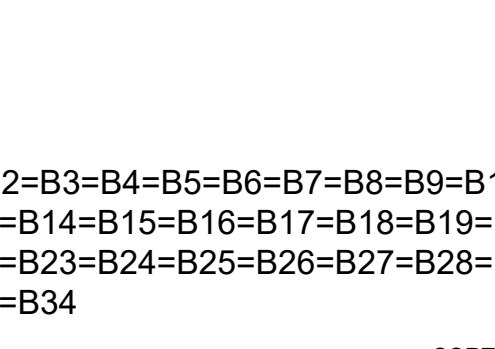
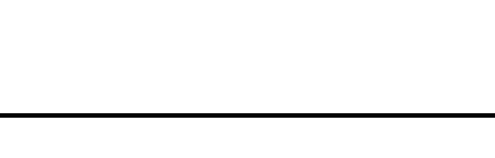
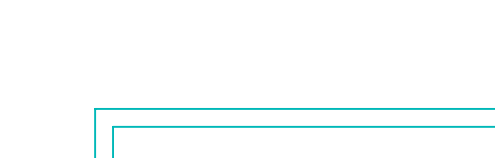
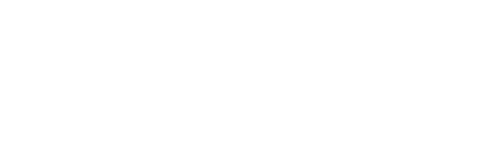
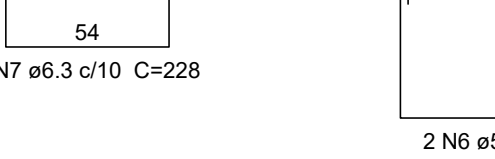
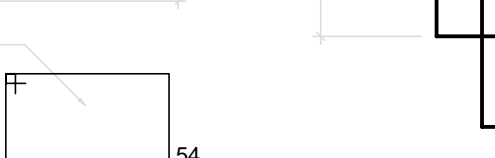
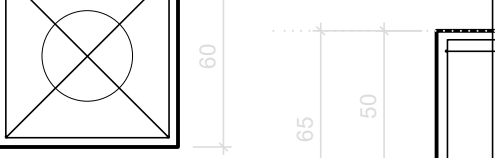
Planta de localização  
escala 1:50

Pilar											Fundação					Bloco	
Nome	Seção	X (cm)	Y (cm)	Carga Máx. (t)	Carga Mín. (t)	Mx (kgf.m)	My (kgf.m)	Fx (t)	Fy (t)	Nome	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	de (cm)	Base sub. (cm)
P1	14x30	2760.50	2170.50	2.4	0	0	0	0.1	0.1	B1	60	60	60	60	55	1	30 - 40
P2	14x30	852.00	2750.50	2.4	1.8	0	0	0.4	0.1	B2	60	60	60	60	55	1	30 - 40
P3	14x30	205.00	2647.50	2.1	1.6	0	0	0.2	0.2	B3	60	60	60	60	55	1	30 - 40
P4	14x30	430.00	2647.50	2.5	1.9	0	0	0.2	0.1	B4	60	60	60	60	55	1	30 - 40
P5	14x30	860.00	2647.50	2.5	2.0	0	0	0.2	0.1	B5	60	60	60	60	55	1	30 - 40
P6	14x30	1085.00	2647.50	1.9	1.4	0	0	0.2	0.2	B6	60	60	60	60	55	1	30 - 40
P7	14x45	25.00	2330.50	2.8	1.6	0	0	0.2	0.1	B7	60	60	60	60	55	1	30 - 40
P8	14x30	205.00	2330.50	2.1	1.6	0	0	0.2	0.2	B8	60	60	60	60	55	1	30 - 40
P9	14x30	325.00	2330.50	3.5	2.5	0	0	0.1	0.1	B9	60	60	60	60	55	1	30 - 40
P10	14x30	625.00	2330.50	3.7	3.5	0	0	0.1	0.1	B10	60	60	60	60	55	1	30 - 40
P11	14x30	925.00	2330.50	3.9	3.2	0	0	0.1	0.2	B11	60	60	60	60	55	1	30 - 40
P12	14x30	1085.00	2330.50	3.6	2.7	0	0	0.2	0.1	B12	60	60	60	60	55	1	30 - 40
P13	14x45	1225.00	2330.50	3.3	1.7	0	0	0.2	0.2	B13	60	60	60	60	55	1	30 - 40
P14	14x45	25.00	2135.50	5.1	4.6	0	0	0.3	0.2	B14	60	60	60	60	55	1	30 - 40
P15	14x30	325.00	2135.50	3.9	3.5	0	0	0.2	0.2	B15	60	60	60	60	55	1	30 - 40
P16	14x30	925.00	2050.50	4.7	4.0	0	0	0.4	0.2	B16	60	60	60	60	55	1	30 - 40
P17	14x45	1225.00	2050.50	6.2	5.5	0	0	0.6	0.1	B17	60	60	60	60	55	1	30 - 40
P18	14x45	25.00	1790.50	5.6	4.1	0	0	0.5	0.1	B18	60	60	60	60	55	1	30 - 40
P19	14x30	325.00	1798.50	4.4	3.9	0	0	0.3	0.3	B19	60	60	60	60	55	1	30 - 40
P20	14x30	625.00	1798.50	3.6	3.4	0	0	0.4	0.1	B20	60	60	60	60	55	1	30 - 40
P21	14x30	925.00	1798.50	4.4	3.9	0	0	0.3	0.2	B21	60	60	60	60	55	1	30 - 40
P22	14x45	1225.00	1798.50	5.1	3.6	0	0	0.6	0.2	B22	60	60	60	60	55	1	30 - 40
P23	14x45	25.00	1430.50	2.6	2.3	0	0	0.1	0.1	B23	60	60	60	60	55	1	30 - 40
P24	14x45	1225.00	1430.50	2.7	2.4	0	0	0.1	0.2	B24	60	60	60	60	55	1	30 - 40
P25	14x45	25.00	1070.50	2.7	2.4	0	0	0.1	0.2	B25	60	60	60	60	55	1	30 - 40
P26	14x45	1225.00	1070.50	2.7	2.4	0	0	0.1	0.2	B26	60	60	60	60	55	1	30 - 40
P27	14x45	25.00	710.50	3.1	2.8	0	0	0.1	0.1	B27	60	60	60	60	55	1	30 - 40
P28	14x45	1225.00	710.50	2.7	2.4	0	0	0.1	0.1	B28	60	60	60	60	55	1	30 - 40
P29	14x45	25.00	350.50	3.2	2.9	0	0	0.1	0.1	B29	60	60	60	60	55	1	30 - 40
P30	14x45	1225.00	350.50	3.2	2.9	0	0	0.1	0.1	B29	60	60	60	60	55	1	30 - 40
P31	14x45	25.00	-9.50	2.9	1.8	0	0	0.3	0.2	B31	60	60	60	60	55	1	30 - 40
P32	30x30	362.50	-9.50	3.8	2.7	0	0	0.3	0.1	B32	60	60	60	60	65	1	30 - 50
P33	30x30	857.50	-9.50	3.8	2.7	0	0	0.3	0.1	B33	60	60	60	60	65	1	30 - 50
P34	14x45	1225.00	-9.50	2.9	1.8	0	0	0.3	0.2	B34	60	60	60	60	55	1	30 - 40

Simbologia	Estacas	Quantidade
	30	34

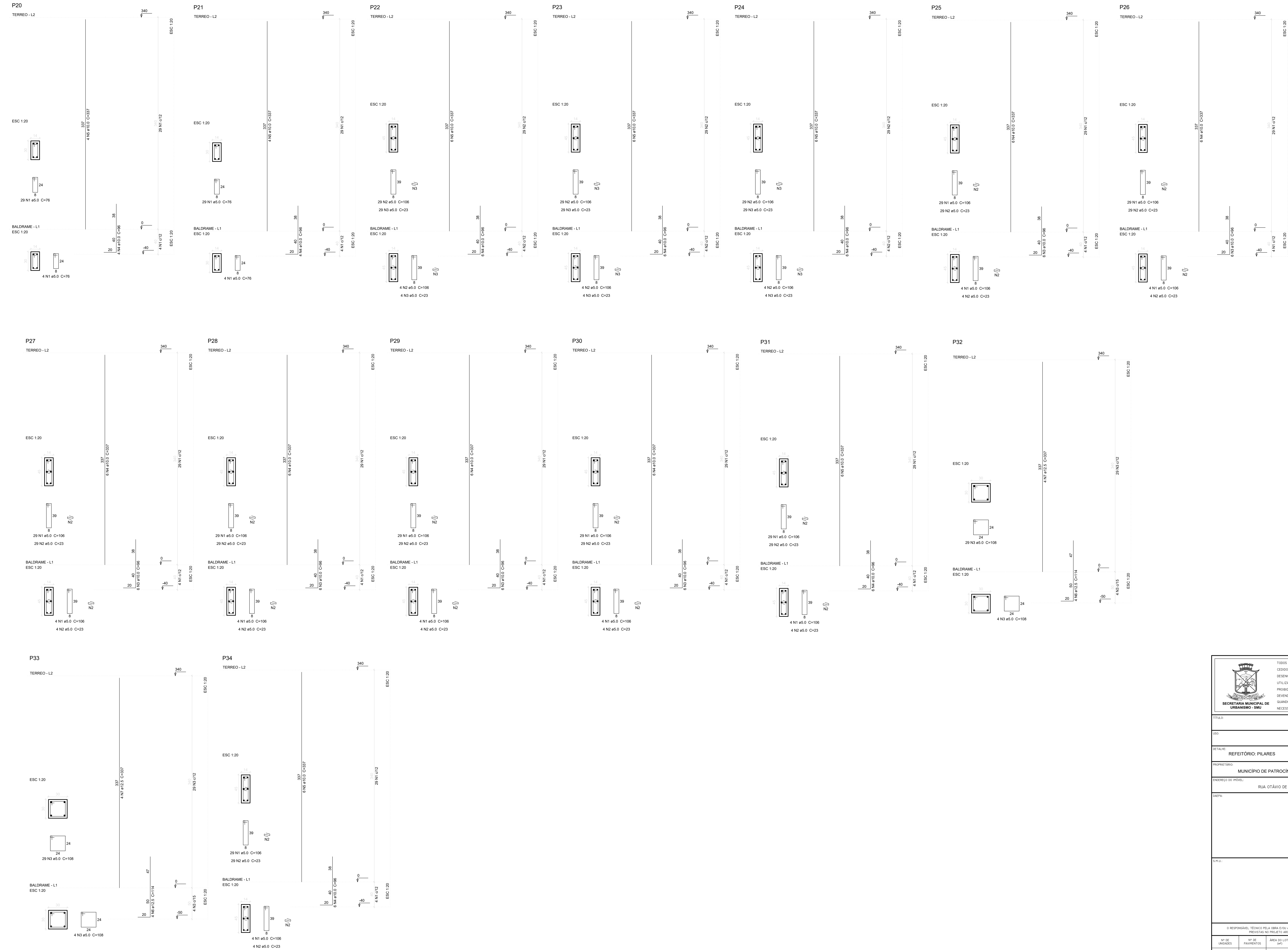


Legenda dos blocos  
escala 1:25










Pilares parte (2/2)  
escala indicada

Relação do aço-PILARES						
P19 P22	P20 P23		P21 P24			
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)	
CA60	1	5.0	99	76	7524	
	2	5.0	99	106	10494	
CA50	3	5.0	99	23	2277	
	4	10.0	30	96	2880	
	5	10.0	30	337	10110	
Resumo do aço						
AÇO	DIAM	C.TOTAL (m)		PESO (kg)		
CA50	10.0	129.9		79.29		
CA60	5.0	203		30.96		
PESO TOTAL						
CA50	79.29					
CA60	30.96					
Vol. de concreto total (C-25) = 1.2 m³						
Área de forma total = 23.48 m²						

Relação do aço-PILARES						
P25 P28	P26 P29		P27 P30			
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)	
CA60	1	5.0	198	106	20988	
	2	5.0	198	23	4554	
CA50	3	10.0	36	96	3456	
	4	10.0	36	337	12132	
Resumo do aço						
AÇO	DIAM	C.TOTAL (m)		PESO (kg)		
CA50	10.0	155.9		94.13		
CA60	5.0	255.5		38.97		
PESO TOTAL						
CA50	94.13					
CA60	38.97					
Vol. de concreto total (C-25) = 1.44 m³						
Área de forma total = 26.9 m²						

 <p>SECRETARIA MUNICIPAL DE URBANISMO - SIMU</p>		TODOS OS DIREITOS RESERVADOS. ESTE DOCUMENTO NÃO PODE SER UTILIZADO, COPIADO OU Cedido FORA DOS TERMOS CONTRATUAIS, OU SEM AUTORIZAÇÃO DO RESPONSÁVEL. ESTE PROJETO DE PROPRIEDADE DA <b>PREFEITURA MUNICIPAL DE PATROCÍNIO</b> DEVE SER UTILIZADO SOMENTE PELO PESSOAL AUTORIZADO, DENTRO DOS INTERESSES DO MUNICÍPIO. É PROIBIDA A SUA REPRODUÇÃO TOTAL OU PARCIAL, SEM PERMISSÃO PRÉVIA POR ESCRITO, DEVENDO SER DEVOLVIDO PARA O DEPARTAMENTO DE ENGENHARIA QUANDO SOLICITADO. OU QUANDO DA CONCLUSÃO DOS TRABALHOS QUAIS A INFORMAÇÃO AQUI CONTIDA FOI NECESSÁRIA.					
TÍTULO: PROJETO ESTRUTURAL							
USO: INSTITUCIONAL							
DETALHE: REFEITÓRIO: PILARES							
PROPRIETÁRIO: MUNICÍPIO DE PATROCÍNIO		DOCUMENTO: CNPJ.: 18.468.033/0001-26					
ENDEREÇO DO PROJETO: RUA OTÁVIO DE BRITO - BAIRRO SANTO ANTÔNIO - PATROCÍNIO/MG							
SINOPSE: <p>OBRA: 29 N3 ø5.0 C=108</p>		R.T. PROJETO: <p>ORLANDO VARGAS DA SILVA NETO037424291645</p>					
		R.T. EXECUÇÃO: <p>_____</p>					
S.N.O.:		PROPRIETÁRIO: <p>MUNICÍPIO DE PATROCÍNIO DEDIR MOREIRA BARBOSA PREFEITO MUNICIPAL</p>					
O RESPONSÁVEL TÉCNICO PELA OBRA (VOU AUTOR DO PROJETO ASSUMI PERANTE O MUNICÍPIO E TERCEIROS QUE TODAS AS CONDIÇÕES PREVISTAS NO PROJETO ARQUITETÔNICO ESTÃO DE ACORDO COM AS NBR'S E CÓDIGOS CÍVEIS BRASILEIROS).							
Nº DE ANÁLISES	Nº DE PAVIMENTOS	ÁREA DO LOTE (m²)	ÁREA DE PROJEÇÃO (m²)	ZONAMENTO URBANO (m²)	TAXA DE OCUPAÇÃO (%)	TAXA DE PERMEABILIDADE (%)	COEFICIENTE DE APERTEZAMENTO URBANO
01	01	3.280,00	1.068,73	2M	32,38%	54,07%	0,32
ÁREAS CONSTRUTIVAS (m²)		ÁREAS A INCLUIR (m²)		ÁREAS A CONSTRUIR (m²)		TOTAL (m²)	
PRINCIPAL		-		-		1.068,73	
DEPENDÊNCIA		-		-		-	
SETOR:	QUADRA:	LOTE:	ESCALA:		DATA:	FOLHA:	
28	024	114	INDICADA		OUT / 2023	06 / 13	

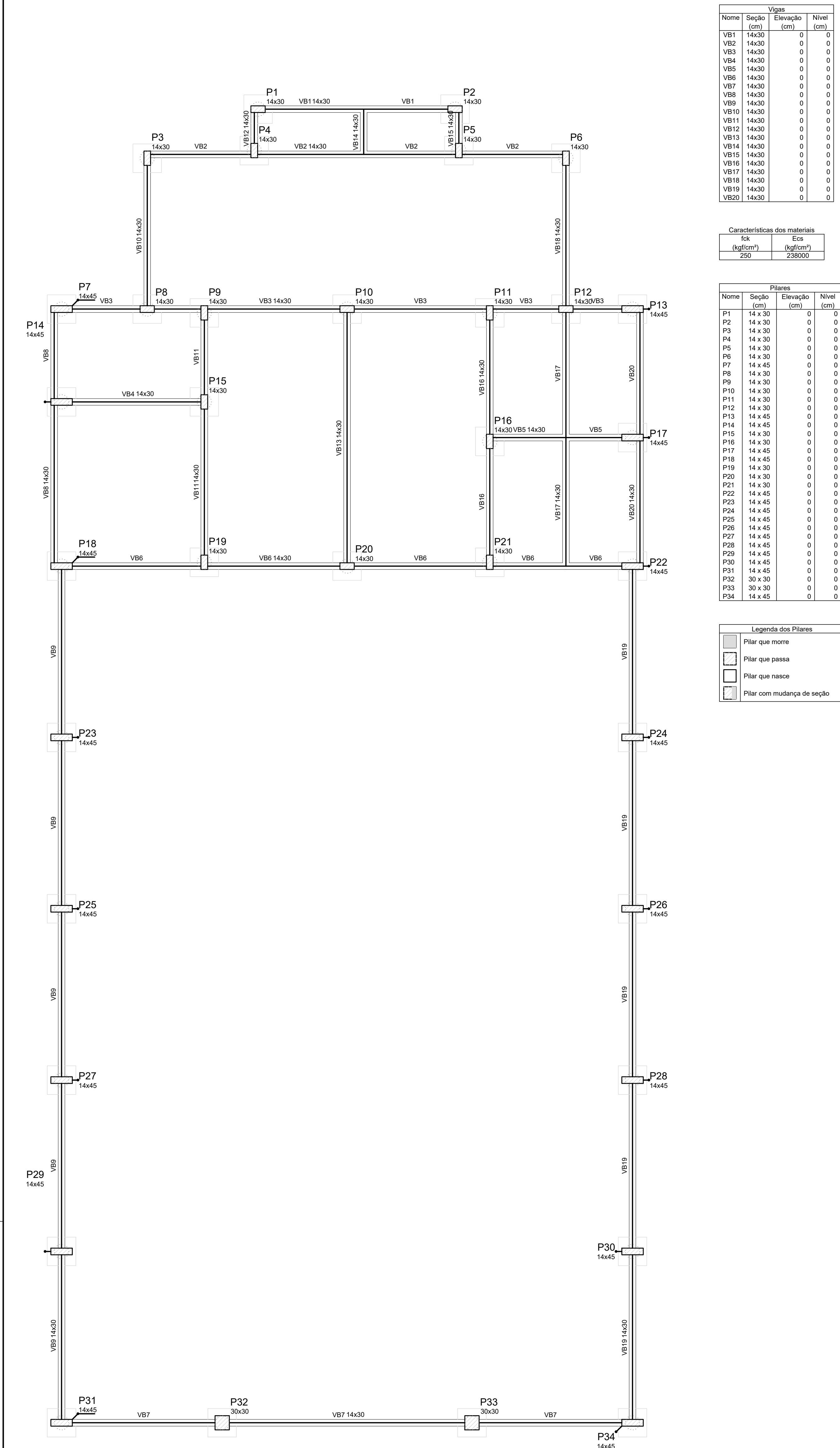


# Forma do pavimento BALDRAME

escala 1:50

# Vigas pavimento BALDRAME

escala indicada

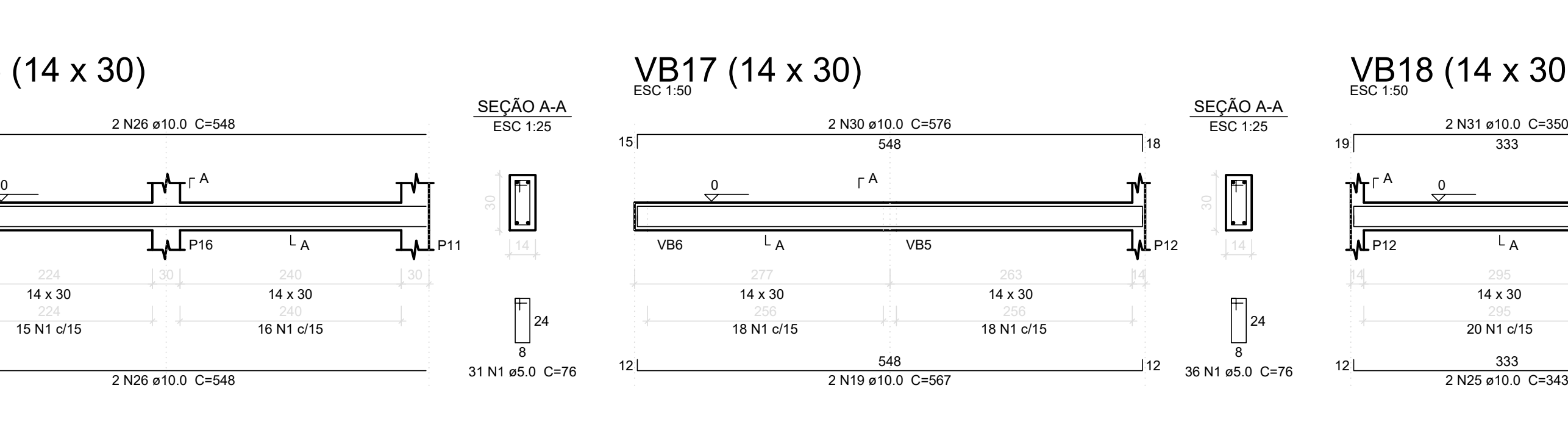
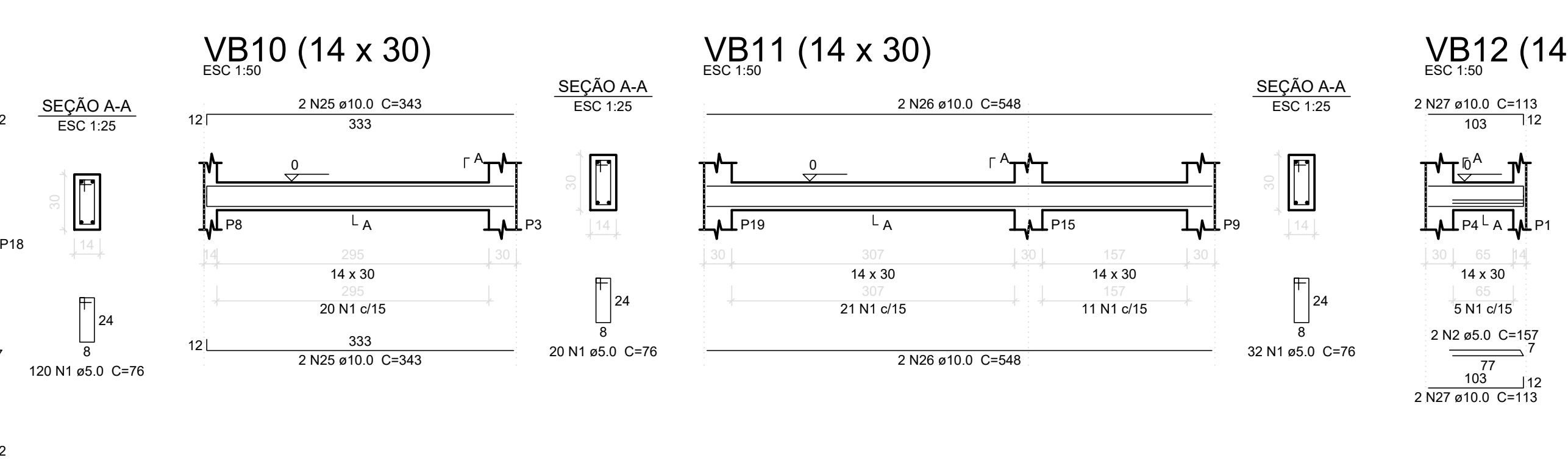
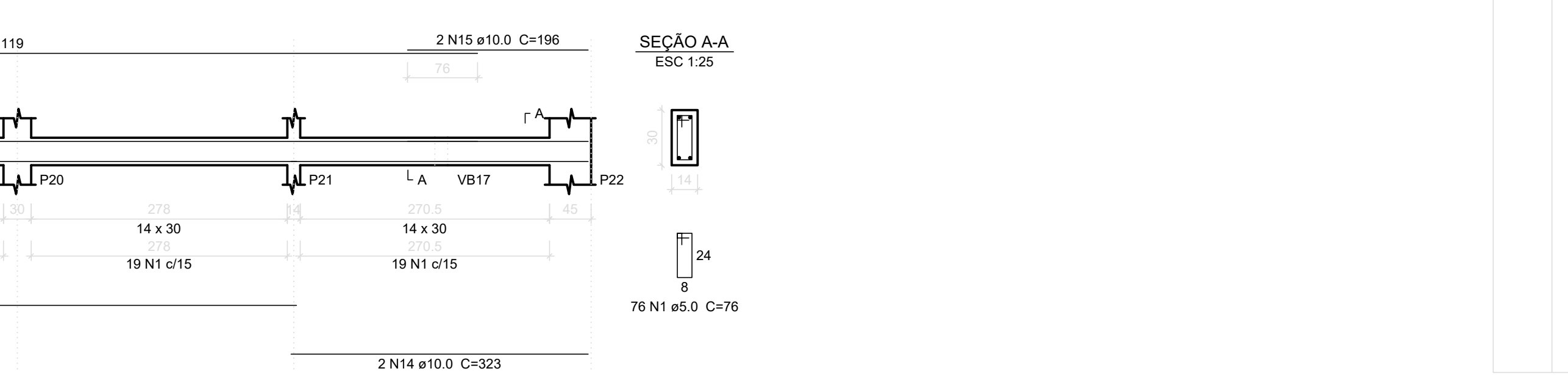
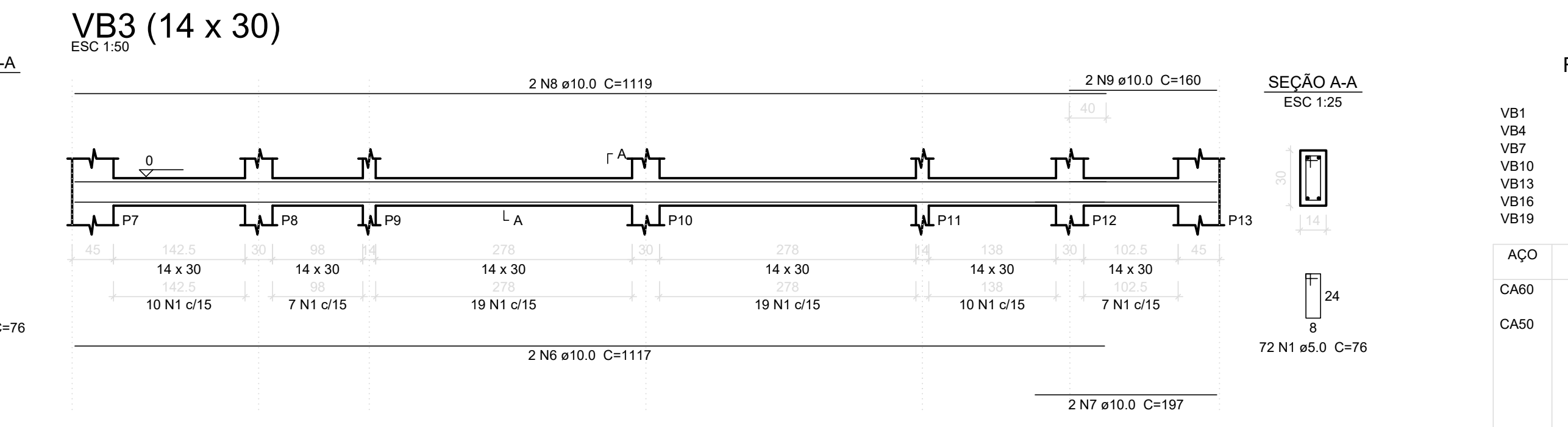
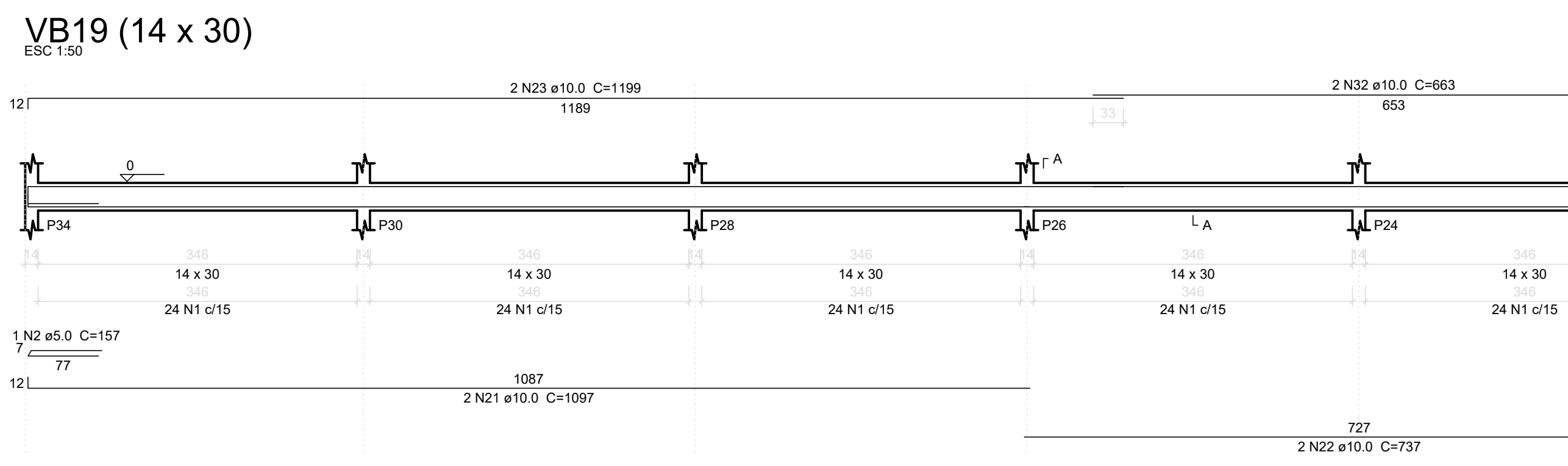
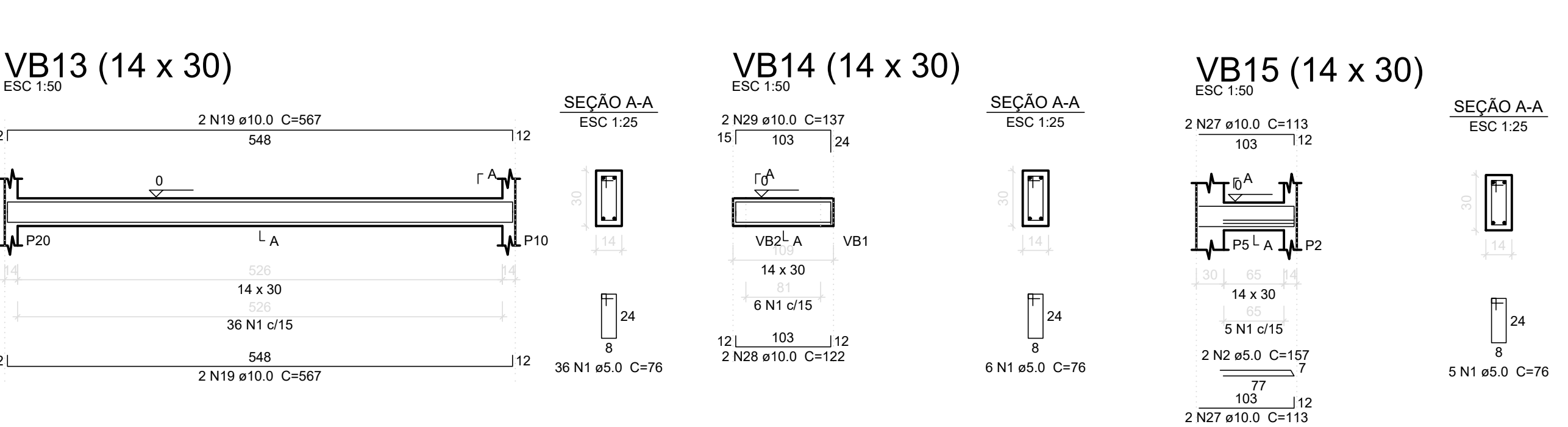
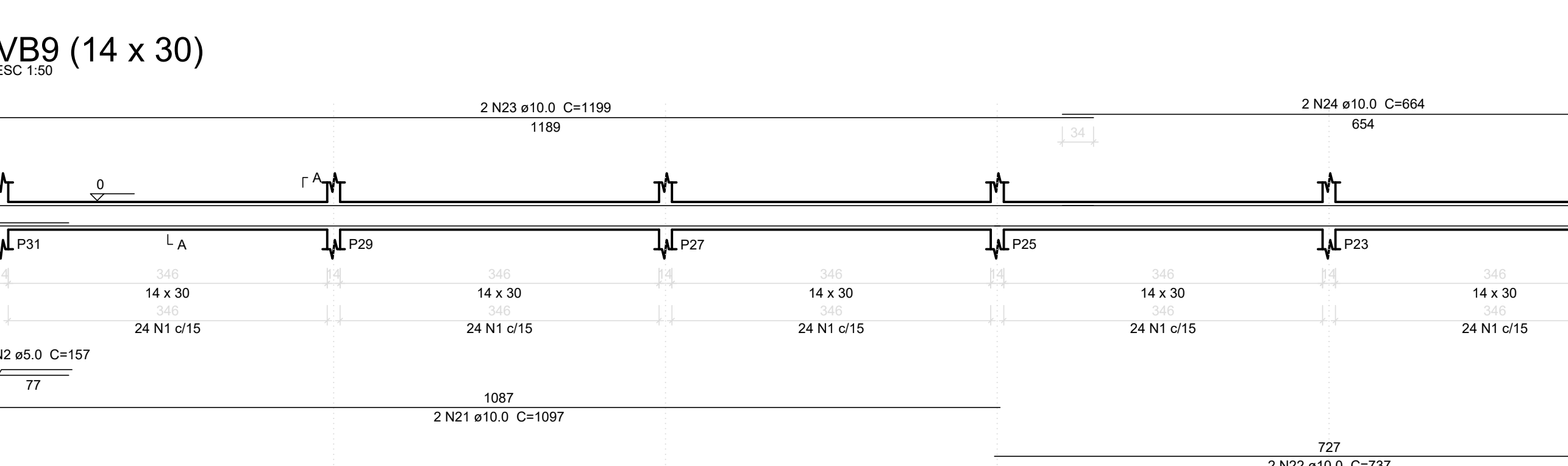
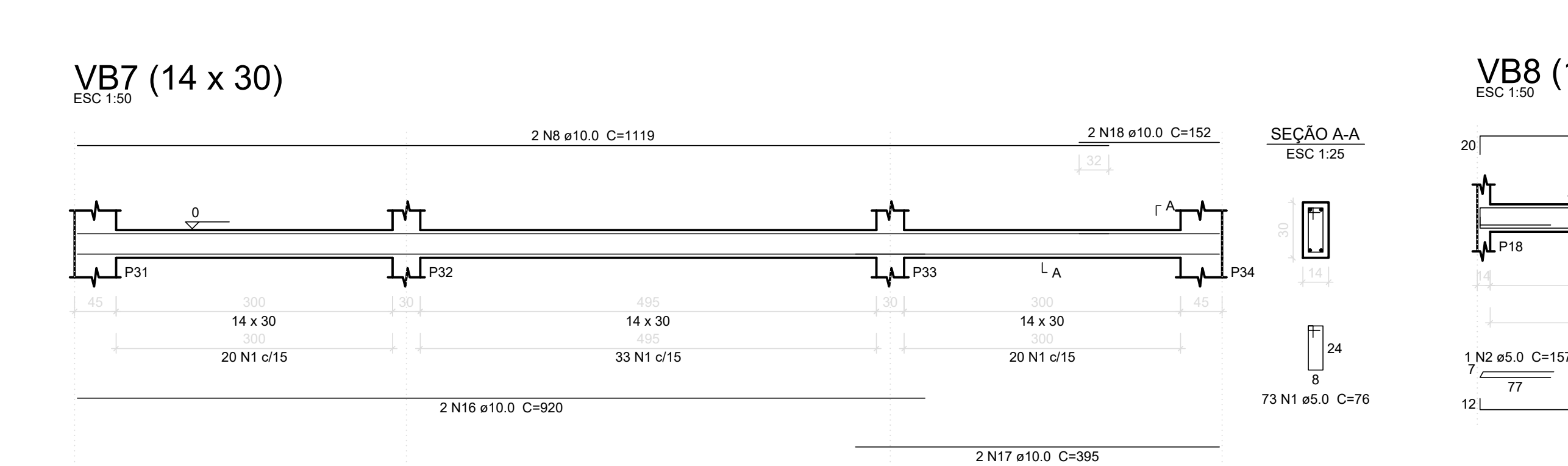
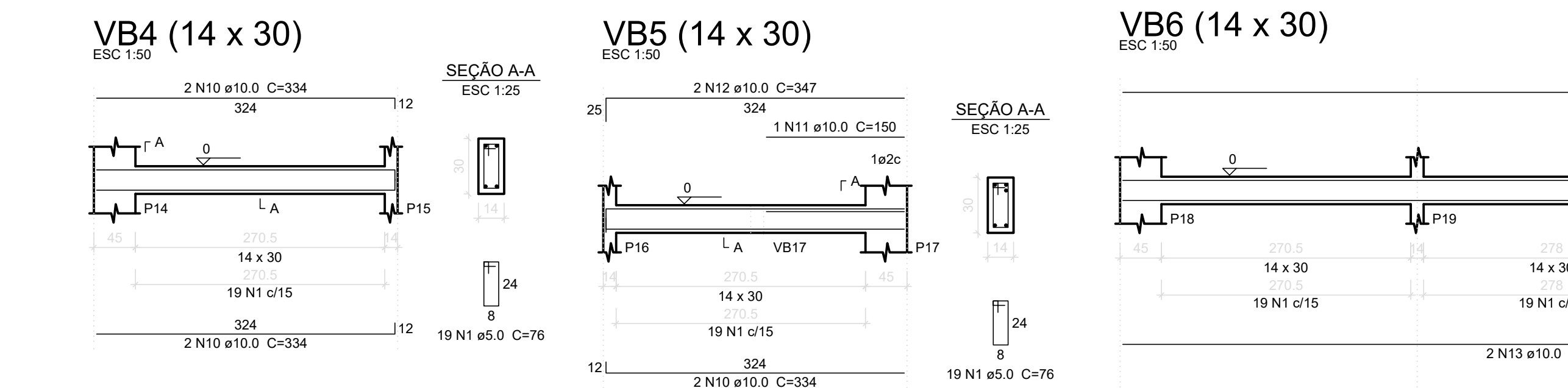
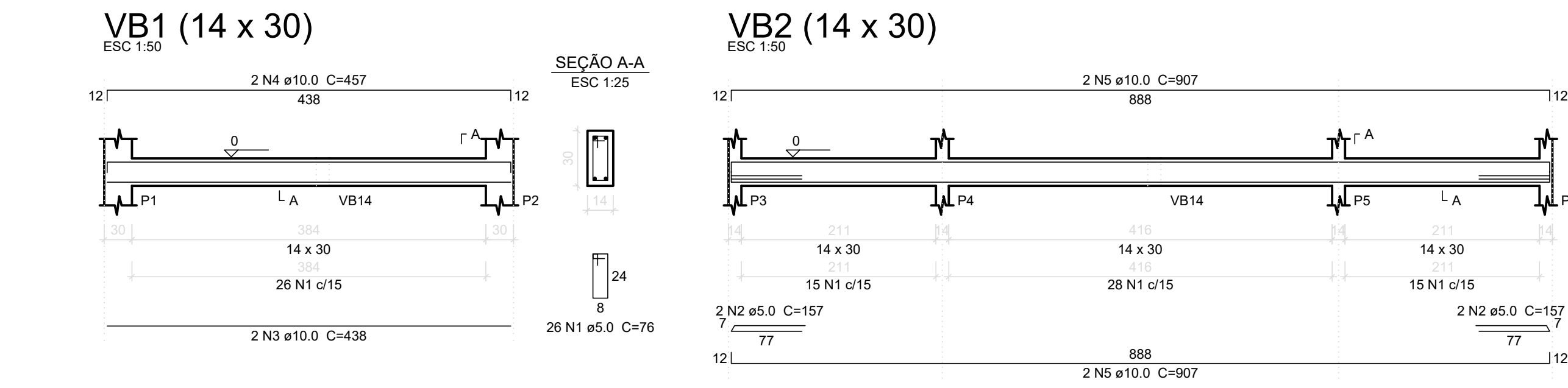


Vigas			
Nome	Seção	Elevação	Nível
(cm)	(cm)	(cm)	(cm)
VB1	14x30	0	0
VB2	14x30	0	0
VB3	14x30	0	0
VB4	14x30	0	0
VB5	14x30	0	0
VB6	14x30	0	0
VB7	14x30	0	0
VB8	14x30	0	0
VB9	14x30	0	0
VB10	14x30	0	0
VB11	14x30	0	0
VB12	14x30	0	0
VB13	14x30	0	0
VB14	14x30	0	0
VB15	14x30	0	0
VB16	14x30	0	0
VB17	14x30	0	0
VB18	14x30	0	0
VB19	14x30	0	0
VB20	14x30	0	0

Características dos materiais	
fck	fcd
(kgf/cm²)	(kgf/cm²)
25	23000

Planes			
Nome	Seção	Elevação	Nível
(cm)	(cm)	(cm)	(cm)
P1	14 x 30	0	0
P2	14 x 30	0	0
P3	14 x 30	0	0
P4	14 x 30	0	0
P5	14 x 30	0	0
P6	14 x 30	0	0
P7	14 x 30	0	0
P8	14 x 30	0	0
P9	14 x 30	0	0
P10	14 x 30	0	0
P11	14 x 30	0	0
P12	14 x 30	0	0
P13	14 x 30	0	0
P14	14 x 30	0	0
P15	14 x 30	0	0
P16	14 x 30	0	0
P17	14 x 30	0	0
P18	14 x 30	0	0
P19	14 x 30	0	0
P20	14 x 30	0	0
P21	14 x 30	0	0
P22	14 x 30	0	0
P23	14 x 30	0	0
P24	14 x 30	0	0
P25	14 x 30	0	0
P26	14 x 30	0	0
P27	14 x 30	0	0
P28	14 x 30	0	0
P29	14 x 30	0	0
P30	14 x 30	0	0
P31	14 x 30	0	0
P32	14 x 30	0	0
P33	14 x 30	0	0
P34	14 x 30	0	0

Legenda dos Planes	
	Pilar que morre
	Pilar que passa
	Pilar que nasce
	Pilar com mudança de seção



Relação do aço-VIGAS BALDRAME									
AÇO	N	DIAM	Q	C.TOTAL	PESO	C.TOTAL	PESO	C.TOTAL	PESO
CA50	1	5.0	646	76	64296	76	64296	76	64296
CA50	2	5.0	17	157	2669	157	2669	157	2669
CA50	3	10.0	2	438	876	438	876	438	876
CA50	4	10.0	2	457	914	457	914	457	914
CA50	5	10.0	4	907	3628	907	3628	907	3628
CA50	6	10.0	2	1117	2234	1117	2234	1117	2234
CA50	7	10.0	2	197	394	197	394	197	394
CA50	8	10.0	6	1119	6714	1119	6714	1119	6714
CA50	9	10.0	2	160	320	160	320	160	320
CA50	10	10.0	6	334	2004	334	2004	334	2004
CA50	11	10.0	1	150	150	150	150	150	150
CA50	12	10.0	2	347	694	347	694	347	694
CA50	13	10.0	2	923	1846	923	1846	923	1846
CA50	14	10.0	2	323	646	323	646	323	646
CA50	15	10.0	2	186	372	186	372	186	372
CA50	16	10.0	2	920	1840	920	1840	920	1840
CA50	17	10.0	2	395	790	395	790	395	790
CA50	18	10.0	2	152	304	152	304	152	304
CA50	19	10.0	12	967	6084	967	6084	967	6084
CA50	20	10.0	2	575	1150	575	1150	575	1150
CA50	21	10.0	4	1097	4388	1097	4388	1097	4388
CA50	22	10.0	4	737	2948	737	2948	737	2948
CA50	23	10.0	4	1199	4796	1199	4796	1199	4796
CA50	24	10.0	6	664	3258	664	3258	664	3258
CA50	25	10.0	6	343	2058	343	2058	343	2058
CA50	26	10.0	8	548	4384	548	4384	548	4384
CA50	27	10.0	8	113	904	113	904	113	904
CA50	28	10.0	2	122	244	122	244	122	244
CA50	29	10.0	2	137	274	137	274	137	274
CA50	30	10.0	2	576	1152	576	1152	576	1152
CA50	31	10.0	2	350	700	350	700	350	700
CA50	32	10.0	2	663	1326	663	1326	663	1326

Resumo do aço			
AÇO	DIAM	C.TOTAL	PESO
(m)	(m)	(m)	(kg)
CA50	10.0	562.1	343.08
CA40	5.0	669.7	102.15
PESO TOTAL			
CA50	343.08		
CA40	102.15		

Vol. de concreto total (C=25) = 5.75 m³

Área de forma total = 101.3 m²

		TODOS OS DIREITOS RESERVADOS. ESTE DOCUMENTO NÃO PODE SER UTILIZADO, COPIADO OU Cedido FORA DOS TERMOS CONTRATUAIS, OU SEM AUTORIZAÇÃO DO RESPONSÁVEL. ESTE PROJETO DE PROPRIEDADE DA PREFEITURA MUNICIPAL DE PATROCÍNIO DEVE SER UTILIZADO SOMENTE PELA PESSOA AUTORIZADA, DENTRO DOS INTERESSES DO MUNICÍPIO. É PROIBIDA A SUA REPRODUÇÃO TOTAL OU PARCIAL, SEM PERMISSÃO PRÉVIA POR ESCRITO, DEVENDO SER DEVOLVIDO PARA O DEPARTAMENTO DE ENGENHARIA QUANDO SOLICITADO OU QUANDO DA CONCLUSÃO DOS TRABALHOS QUAIS A INFORMAÇÃO AQUI CONTIDA FOI NECESSÁRIA.					
TÍTULO: PROJETO ESTRUTURAL							
USO: INSTITUCIONAL							
DETALHE: REFEITÓRIO: PLANTA DE FORMA E VIGAS BALDRAME							
PROPRIETÁRIO: MUNICÍPIO DE PATROCÍNIO		DOCUMENTO: CNPJ.: 18.488.033/0001-26					
ENDEREÇO DO PROJETO: RUA OTÁVIO DE BRITO - BAIRRO SANTO ANTÔNIO - PATROCÍNIO/MS							
SINOPSE:		A.T. PROJETADO: ORLANDO VARGAS DA SILVA PROJEÇÃO: NETO/07424291645 Assinado digitalmente por ORLANDO VARGAS DA SILVA em 2023.11.07 às 10:00:00					
S.T. EXECUÇÃO:							
S.M.O.:		PROPRIETÁRIO: MUNICÍPIO DE PATROCÍNIO DEDIR MOREIRA BARBOSA PREFEITO MUNICIPAL					
O RESPONSÁVEL TÉCNICO PELA OBRA E/OU AUTOR DO PROJETO ASSUME PERANTE O MUNICÍPIO E TERCEIROS QUE TODAS AS CONDIÇÕES PREVISTAS NO PROJETO ARQUITETÔNICO ESTÃO DE ACORDO COM AS NBR'S E CÓDIGOS CIVIL, BRASILEIRO(S).							
Nº DE ANÁLISES	Nº DE PAVIMENTOS	ÁREA DO LOTE (m²)	ÁREA DE PROJEÇÃO (m²)	ZONAMENTO (USO)	TAXA DE OCUPAÇÃO (%)	TAXA DE PERMEABILIDADE (%)	COEFICIENTE DE APROPRIAMENTO
01	01	3.280,00	1.068,73	2M	32,38%	54,07%	0,32
ÁREAS		CONSTRUTIVA (m²)	A INCLUIR (m²)	A CONSTRUIR (m²)	TOTAL (m²)		
PRINCIPAL		-	-	-	1.068,73		
DEPENDÊNCIA		-	-	-	-		
SETOR:	SAÍDA:	LOTE:	114		ESCALA:	DATA:	FOLHA:
28	024				INDICADA	OUT / 2023	07 / 13



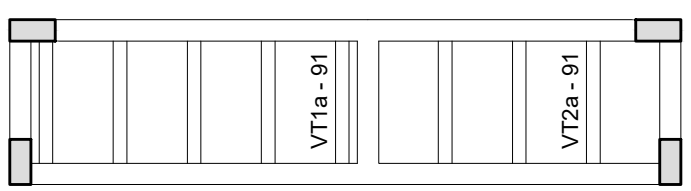
		Dados		Largos		Sobreposição (kg/m <sup>2</sup> )				
Nome	Tipo	Altura (mm)	Elevação (cm)	Nível (cm)	Peso próprio (kg/m <sup>2</sup> )	Adicional	Acidental	Localizada		
L1	Treitada 1D	13	-65	220	183	100	0	-		
L2	Treitada 1D	13	-95	220	183	100	0	-		

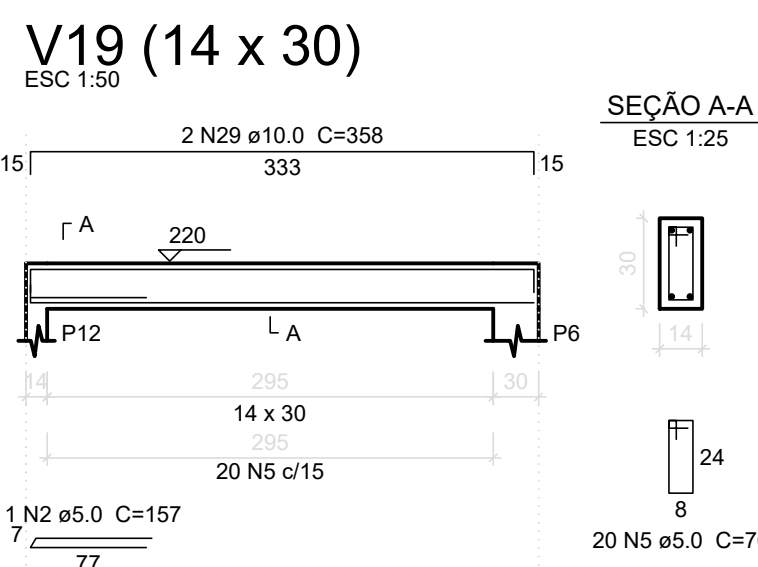
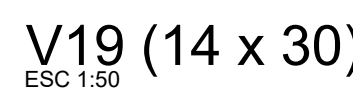
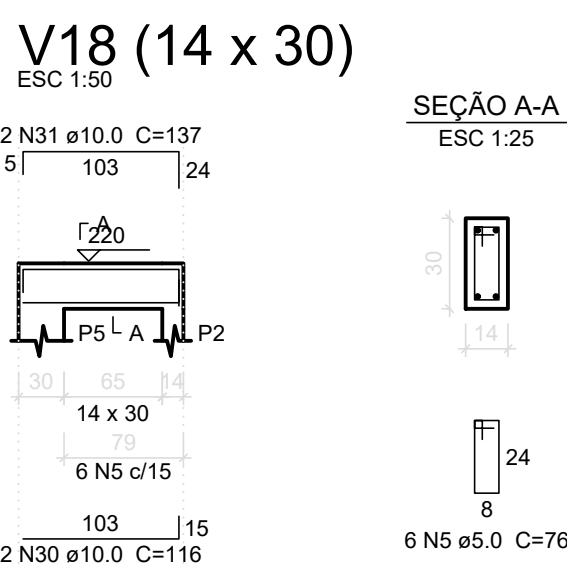
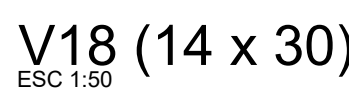
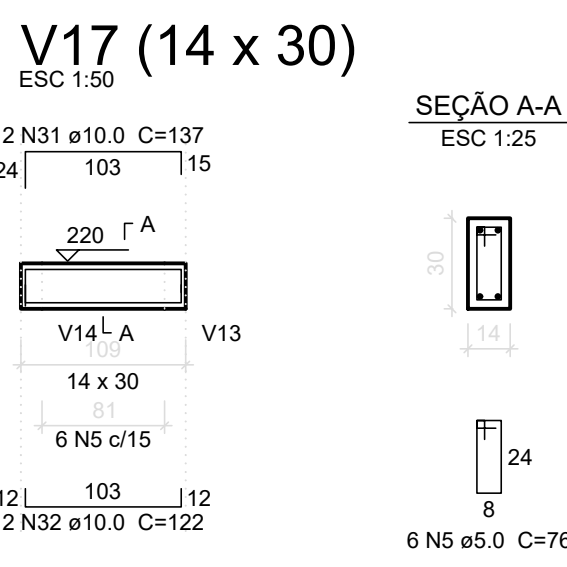
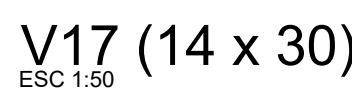
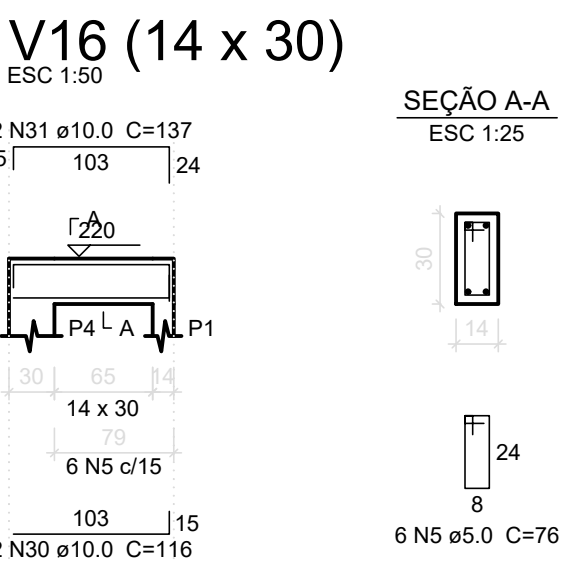
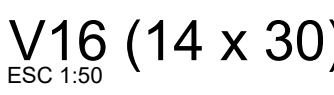
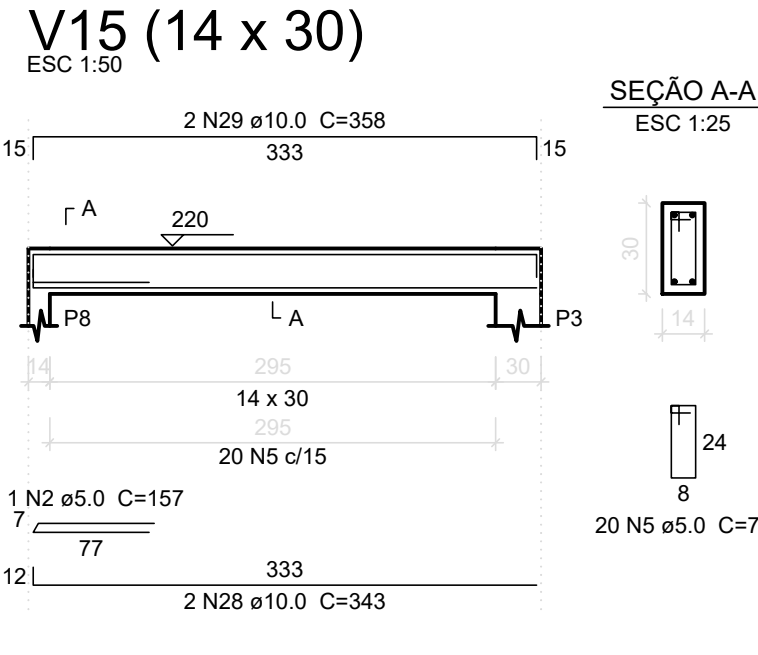
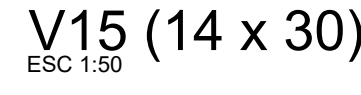
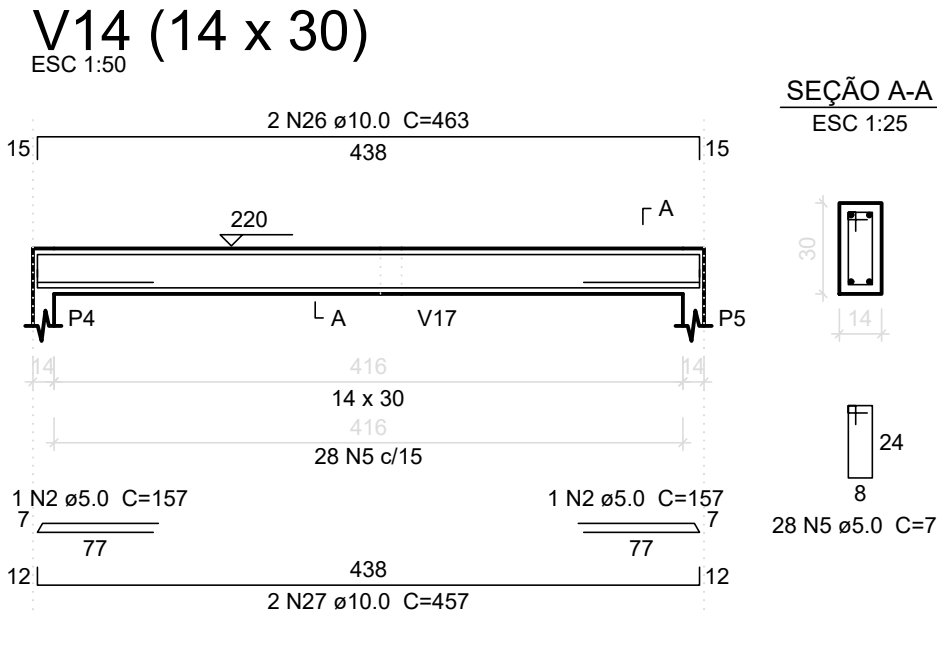
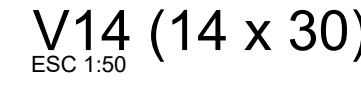
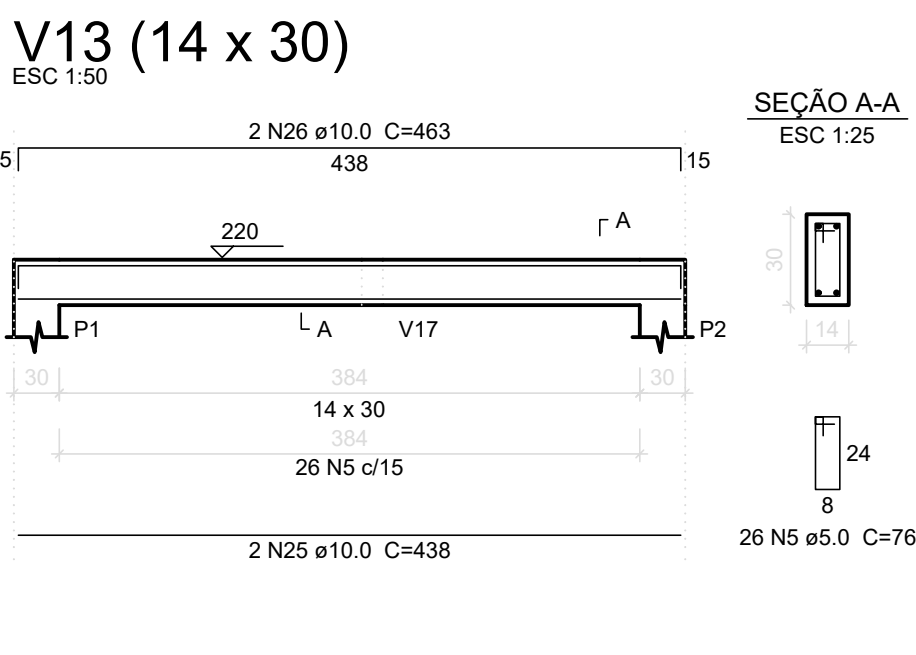
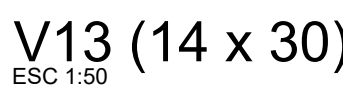
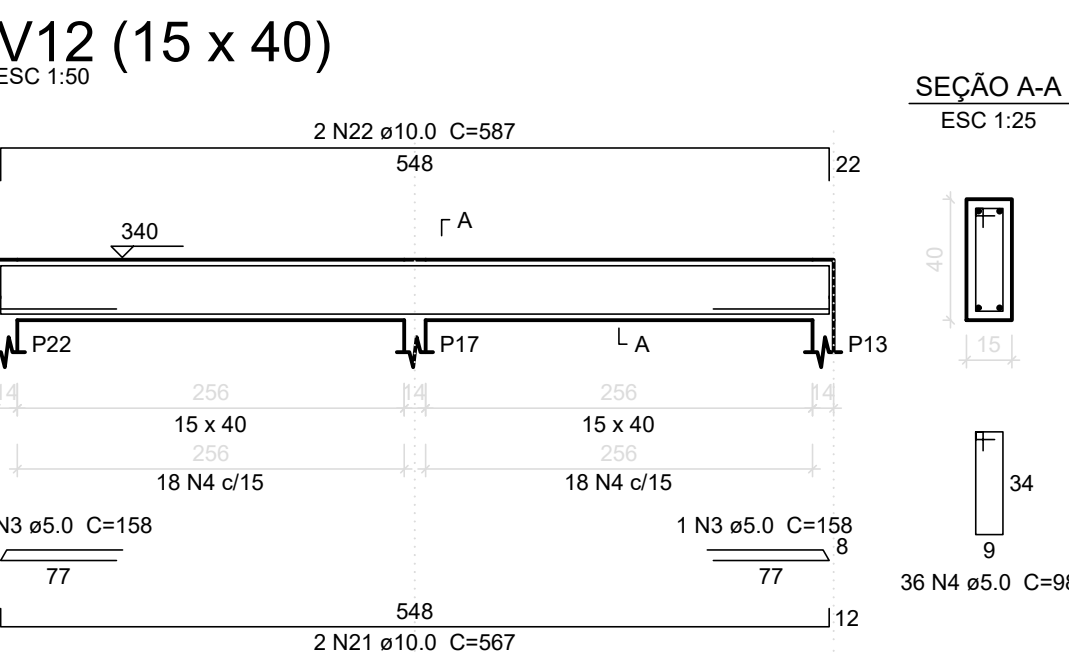
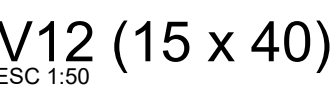
Banco de enclenchimento				
Detalia	Tipo	Nome	Dimensões(cm)	Quantidade
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Detalhe 1 (esc. 1:30)



# Planta de vigotas pré-moldadas



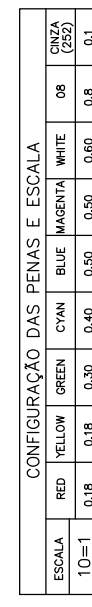
AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	526.9	321.57
CA60	5.0	755.7	115.29
PESO TOTAL			
CA50	321.57		
CA60	115.29		

Vol. de concreto total (C-25) = 6.88 m³  
 Área de forma total = 115.56 m²

escala 1:50

escala indicada

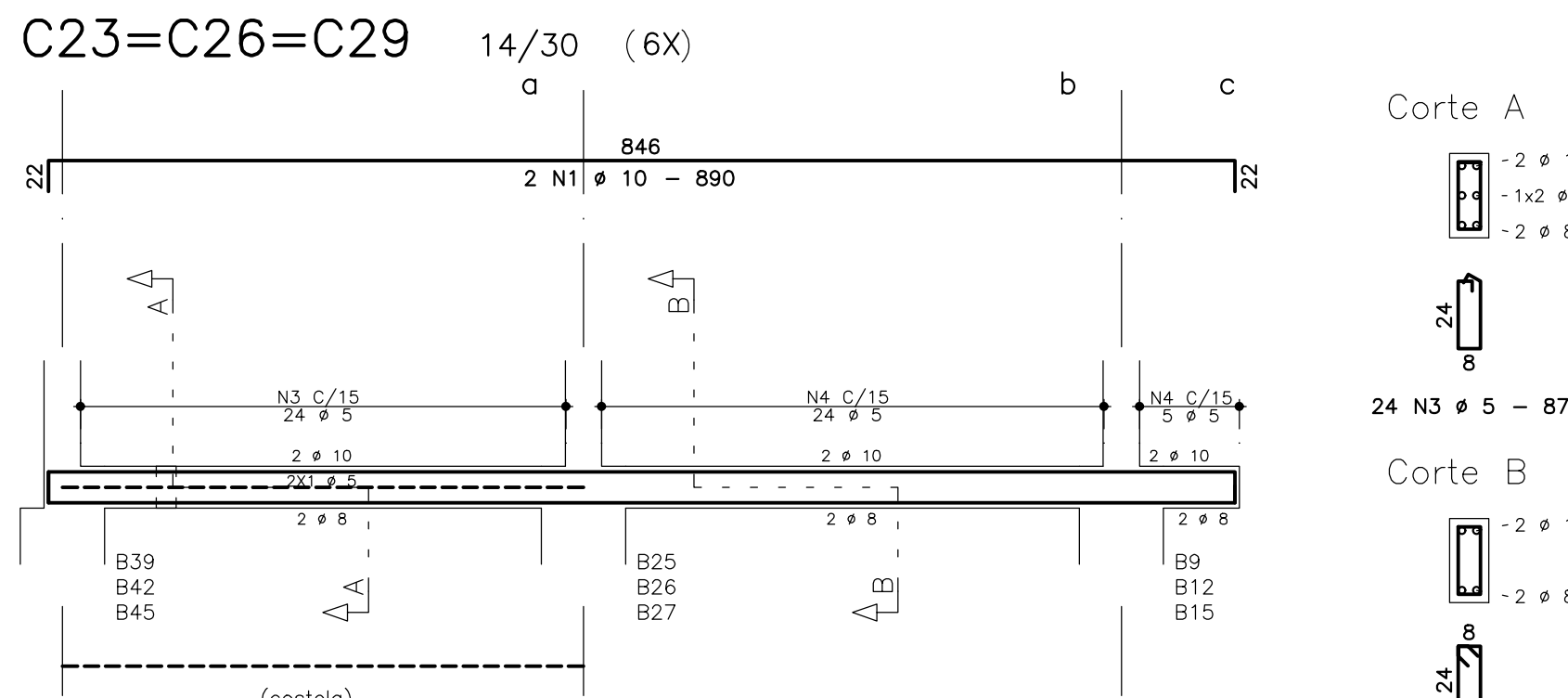
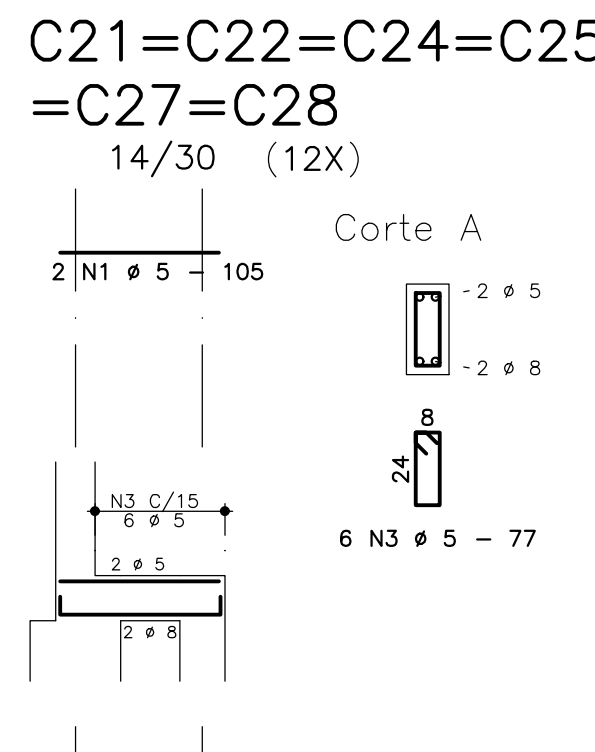
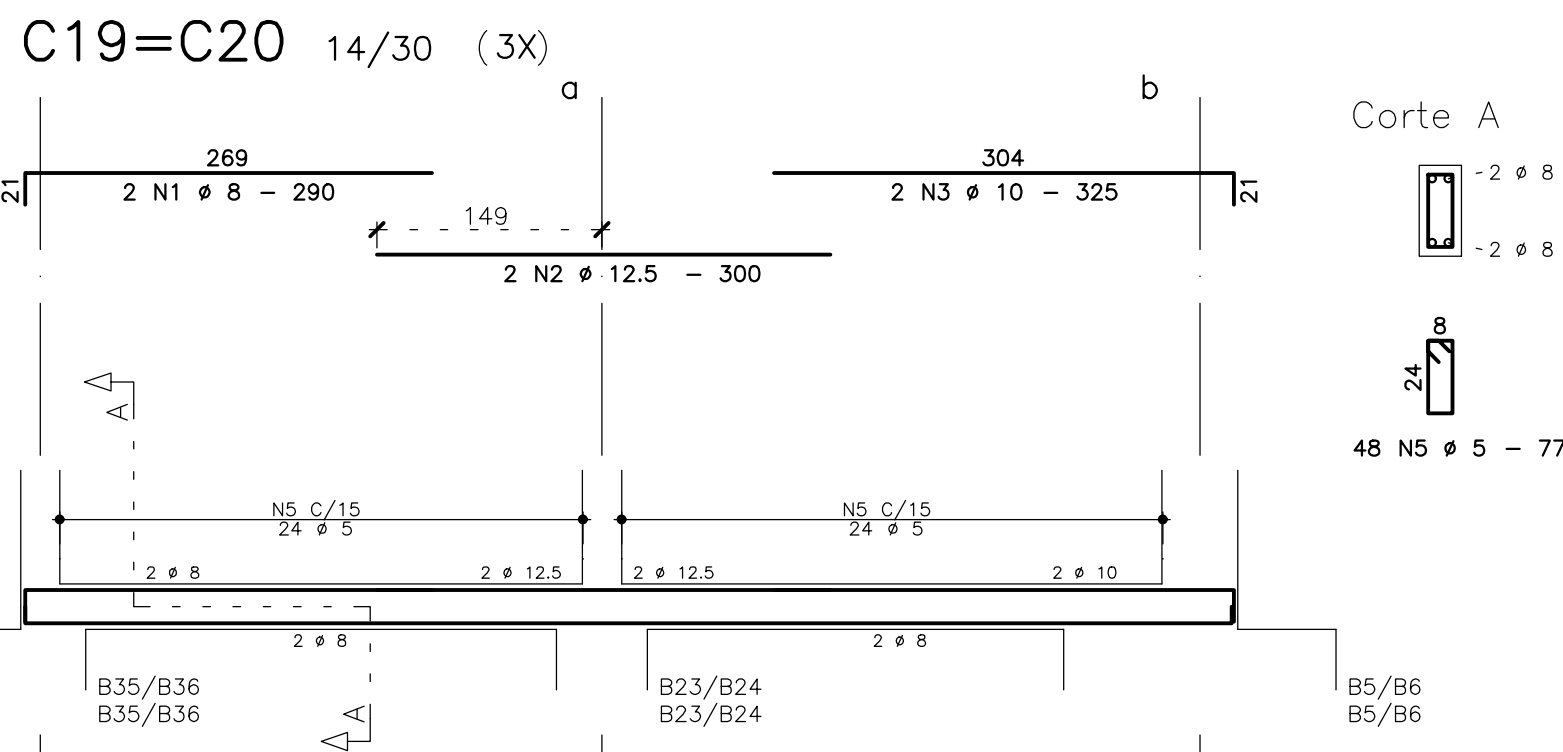
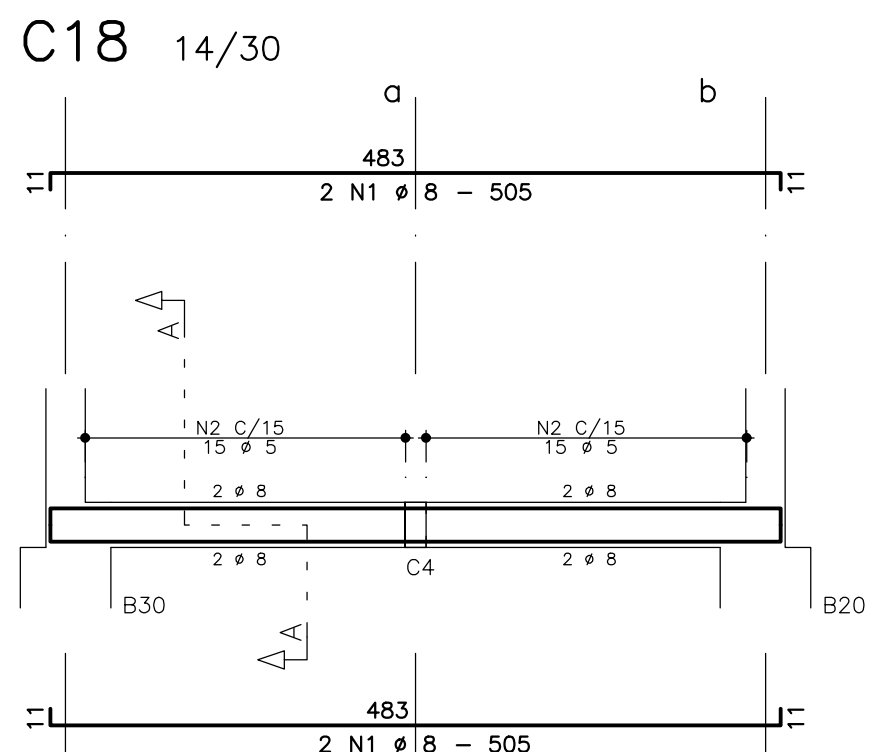
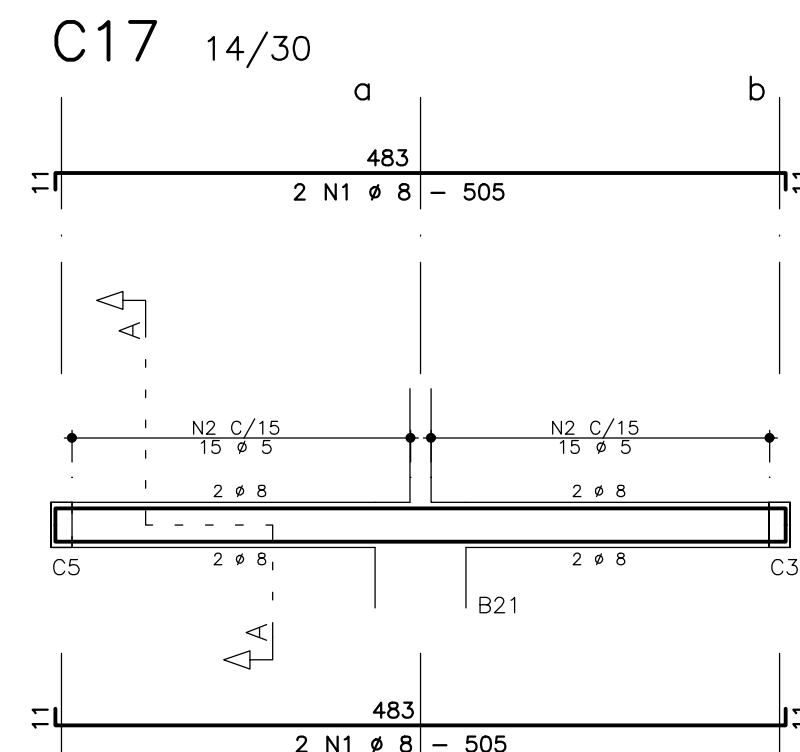
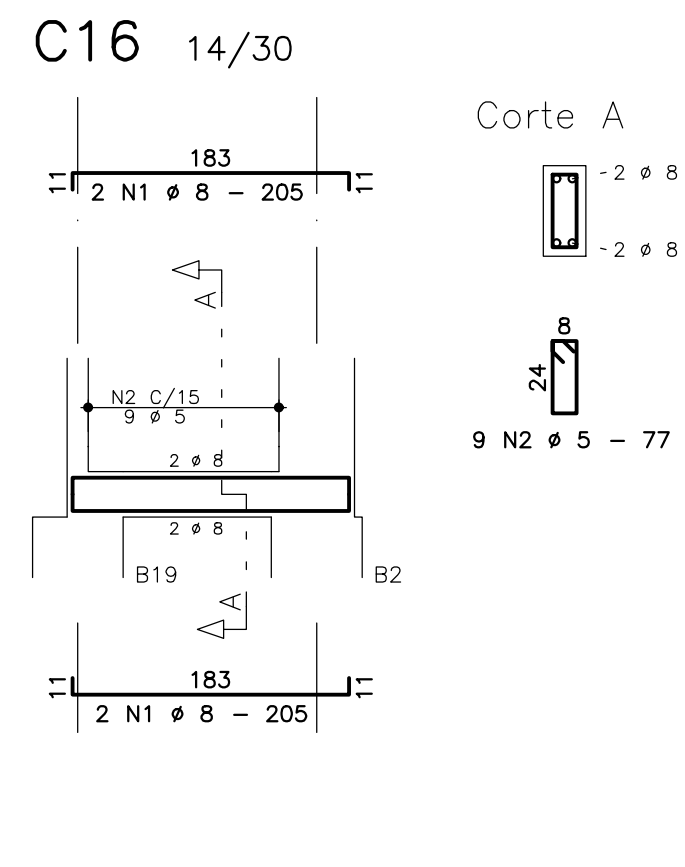
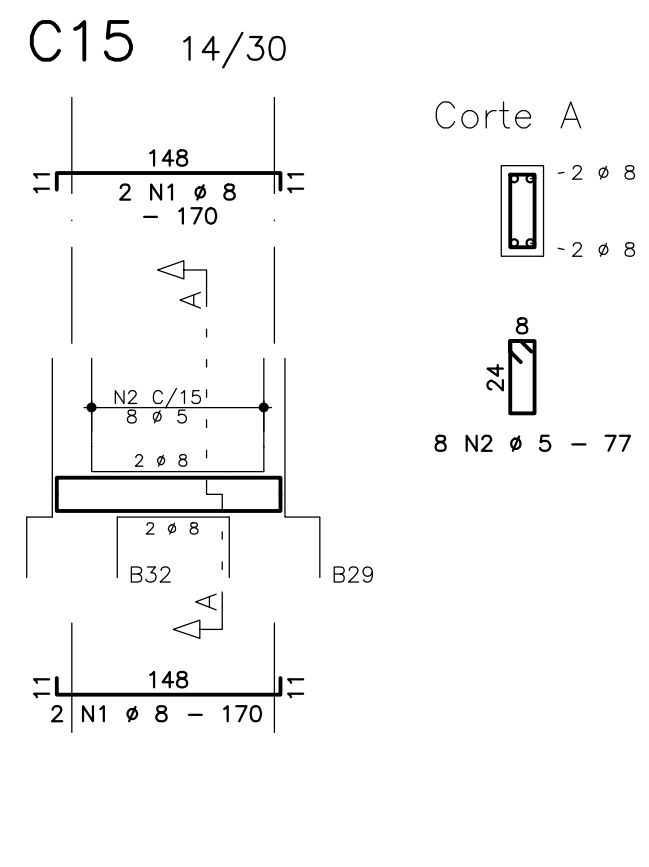
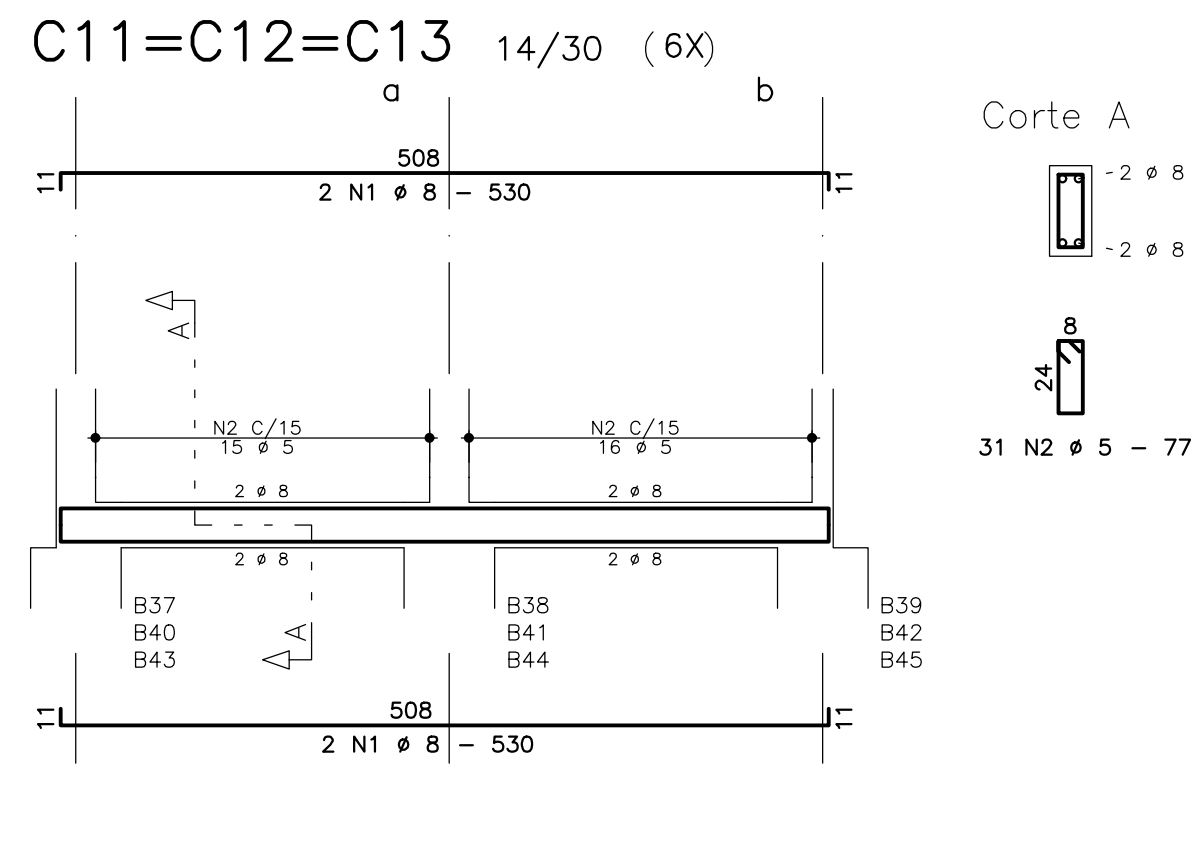
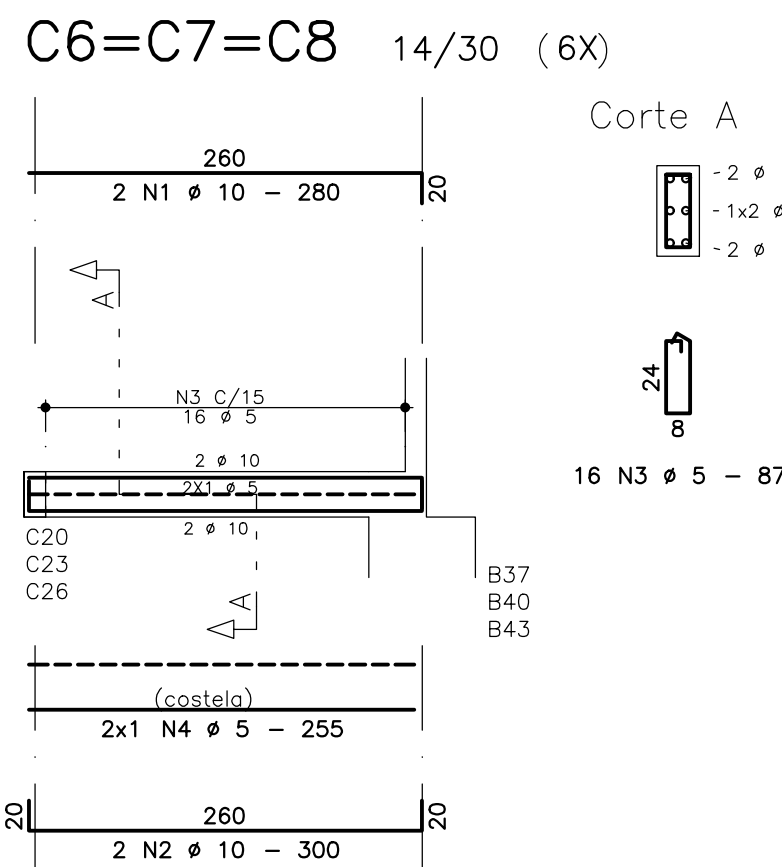
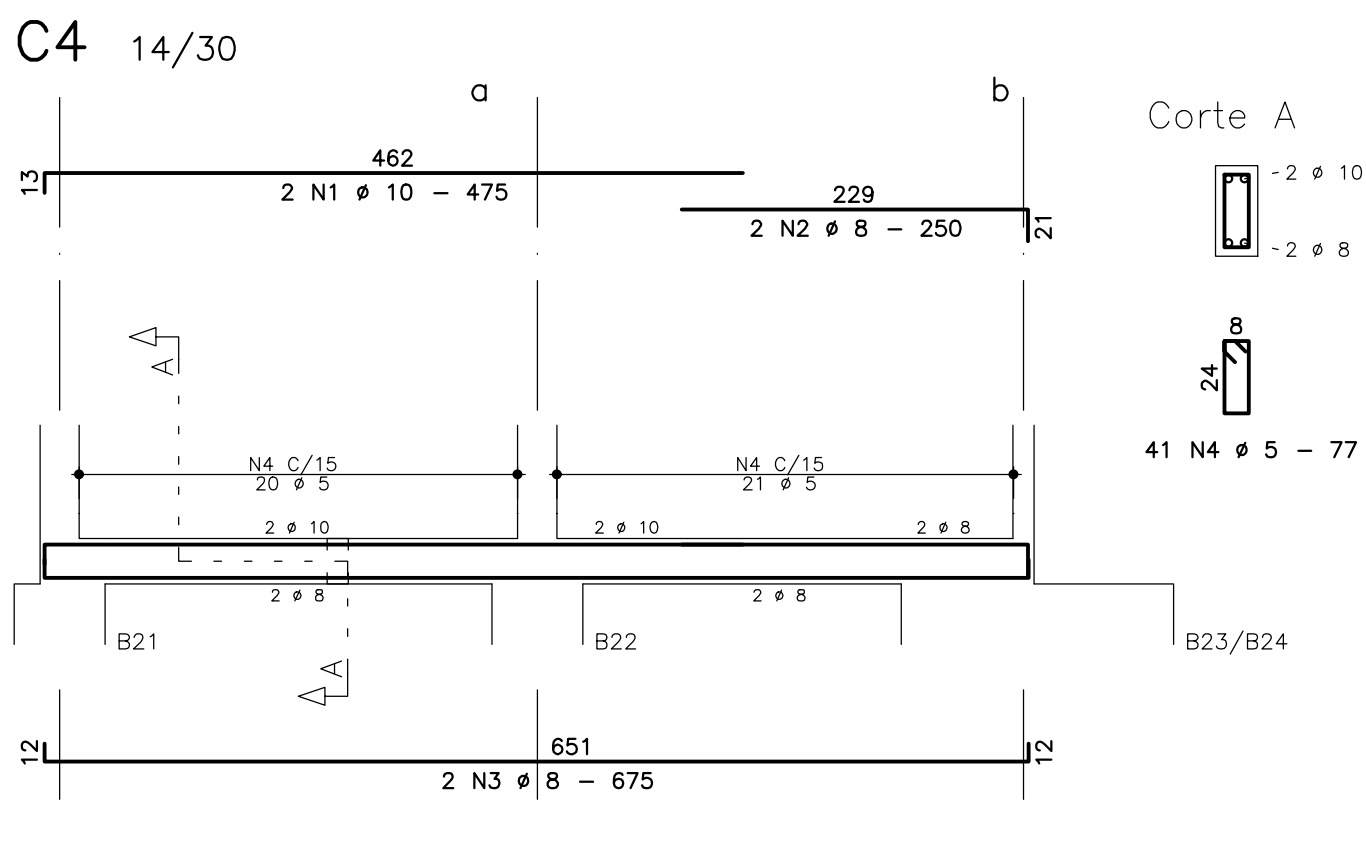
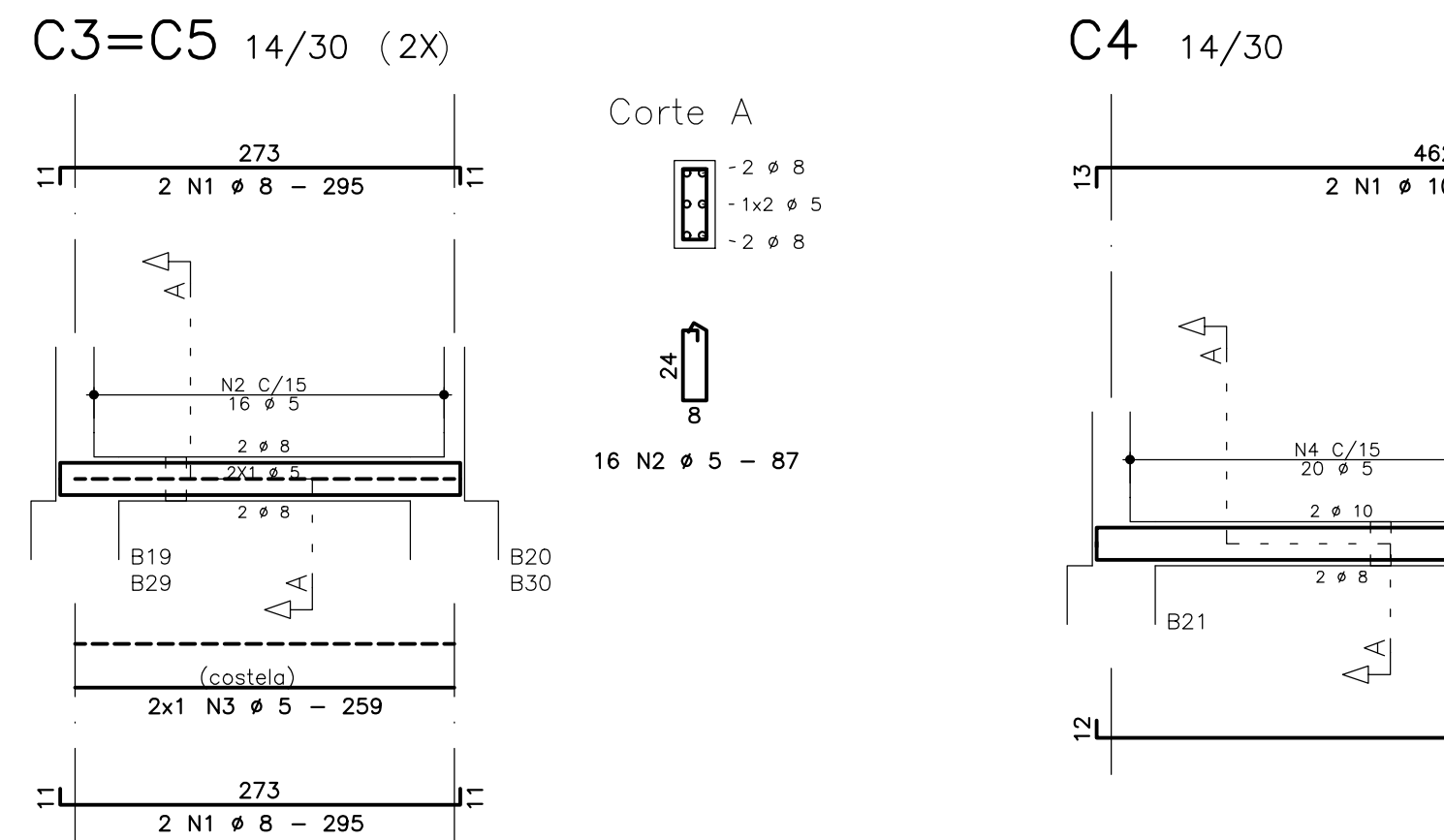
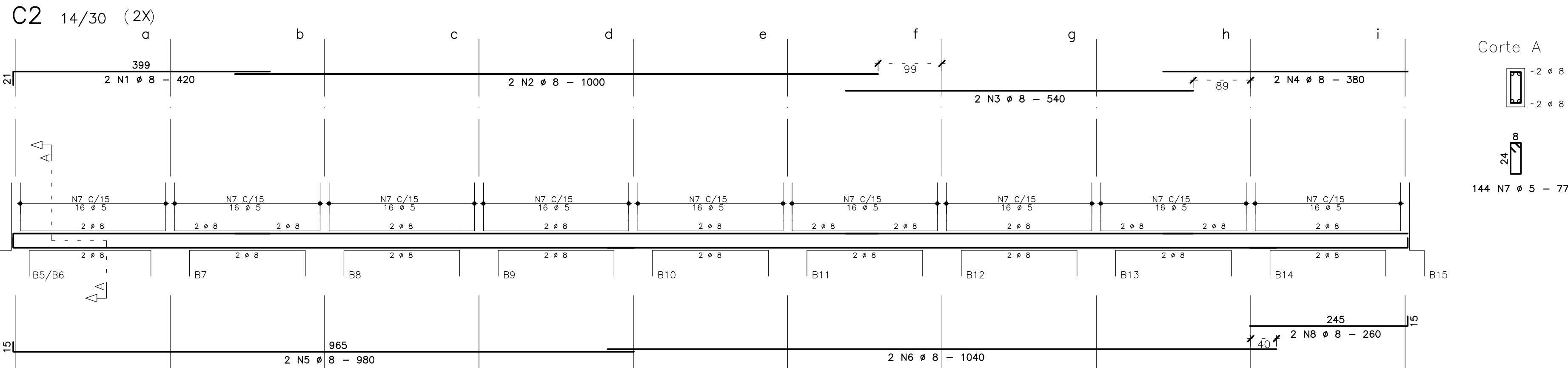
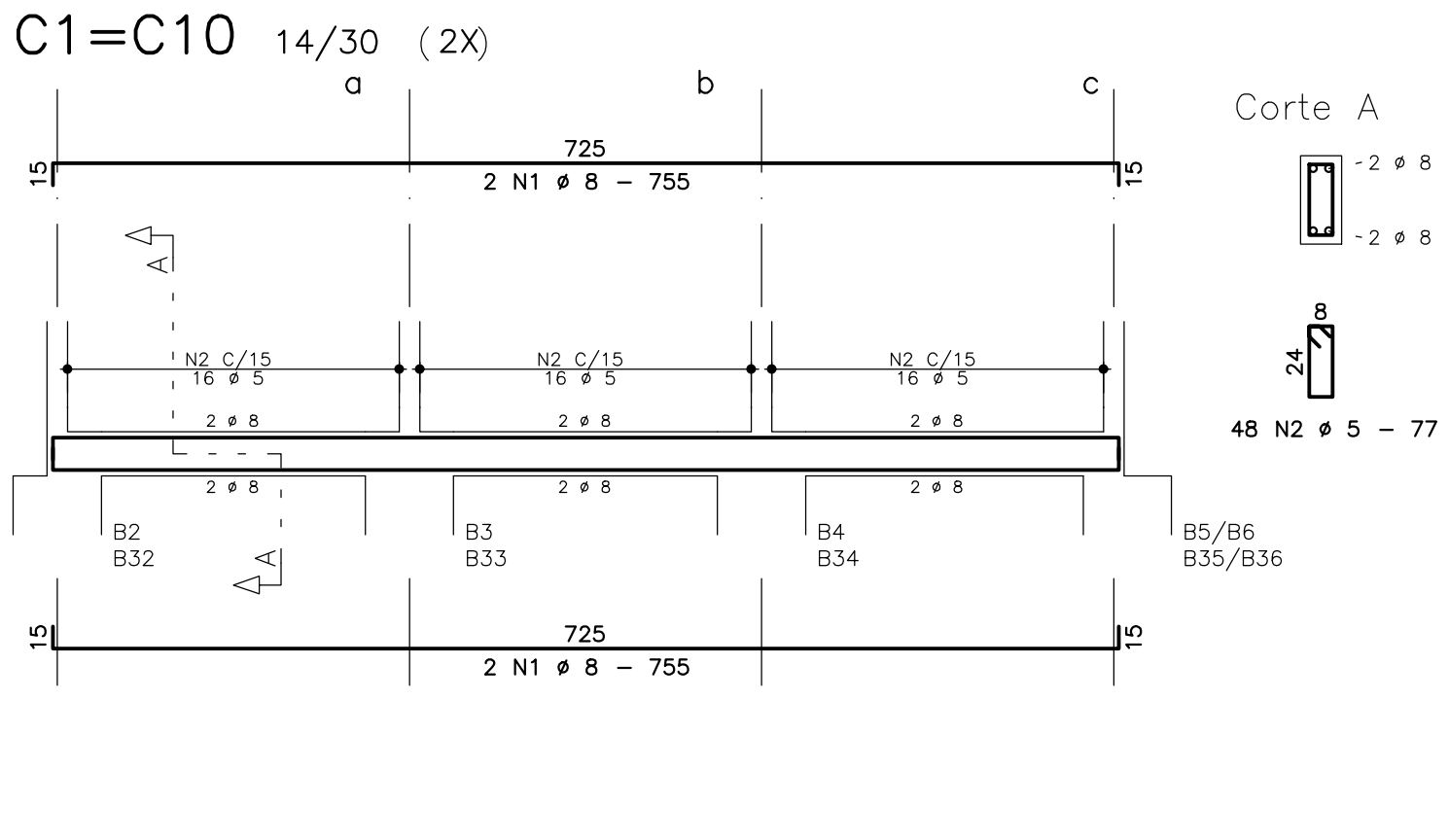






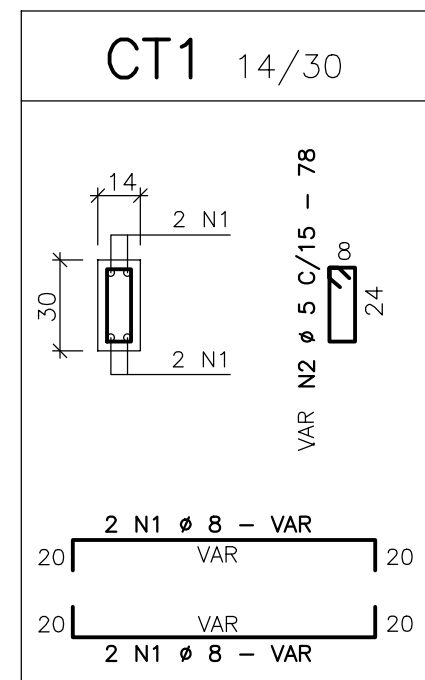
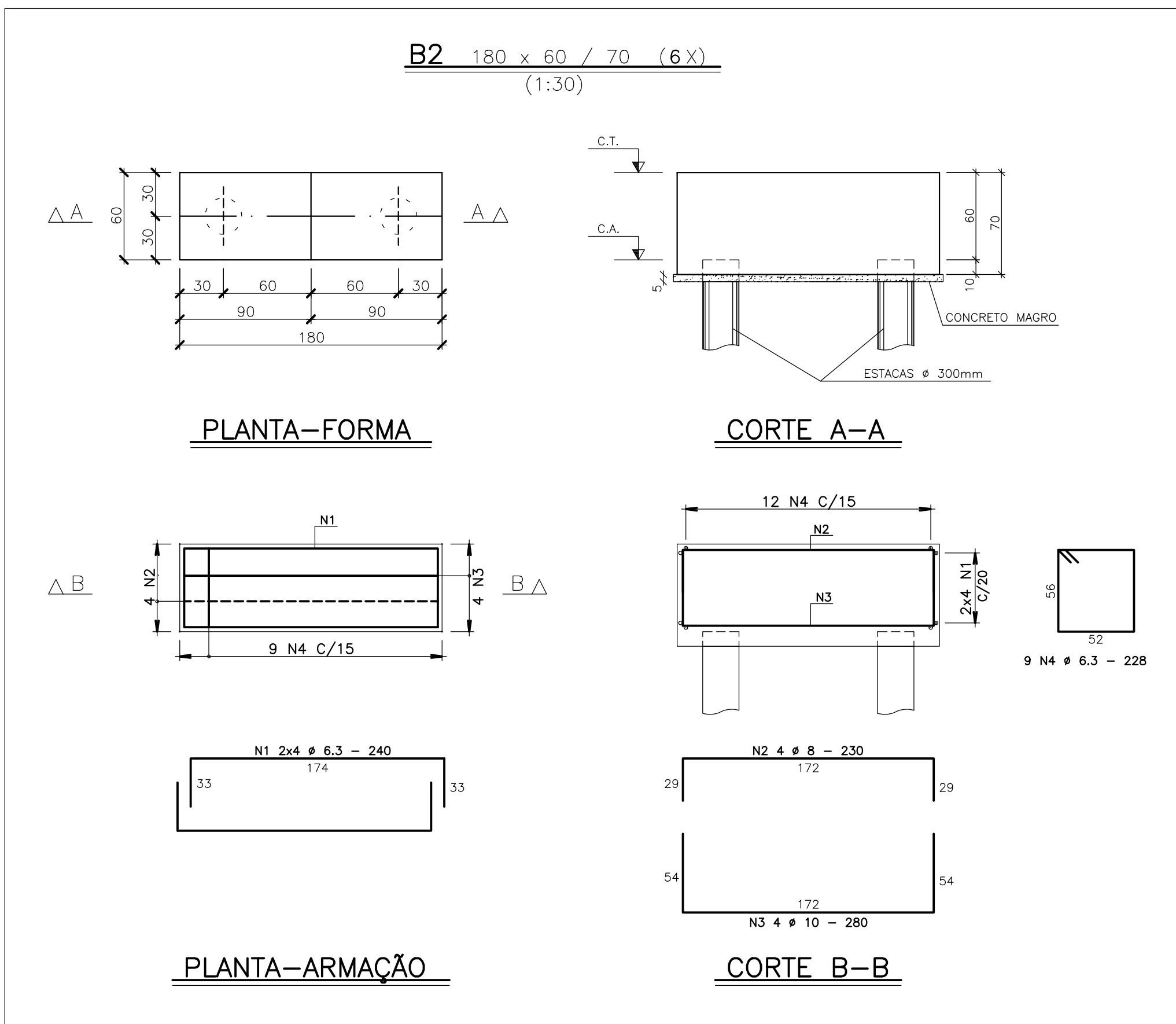
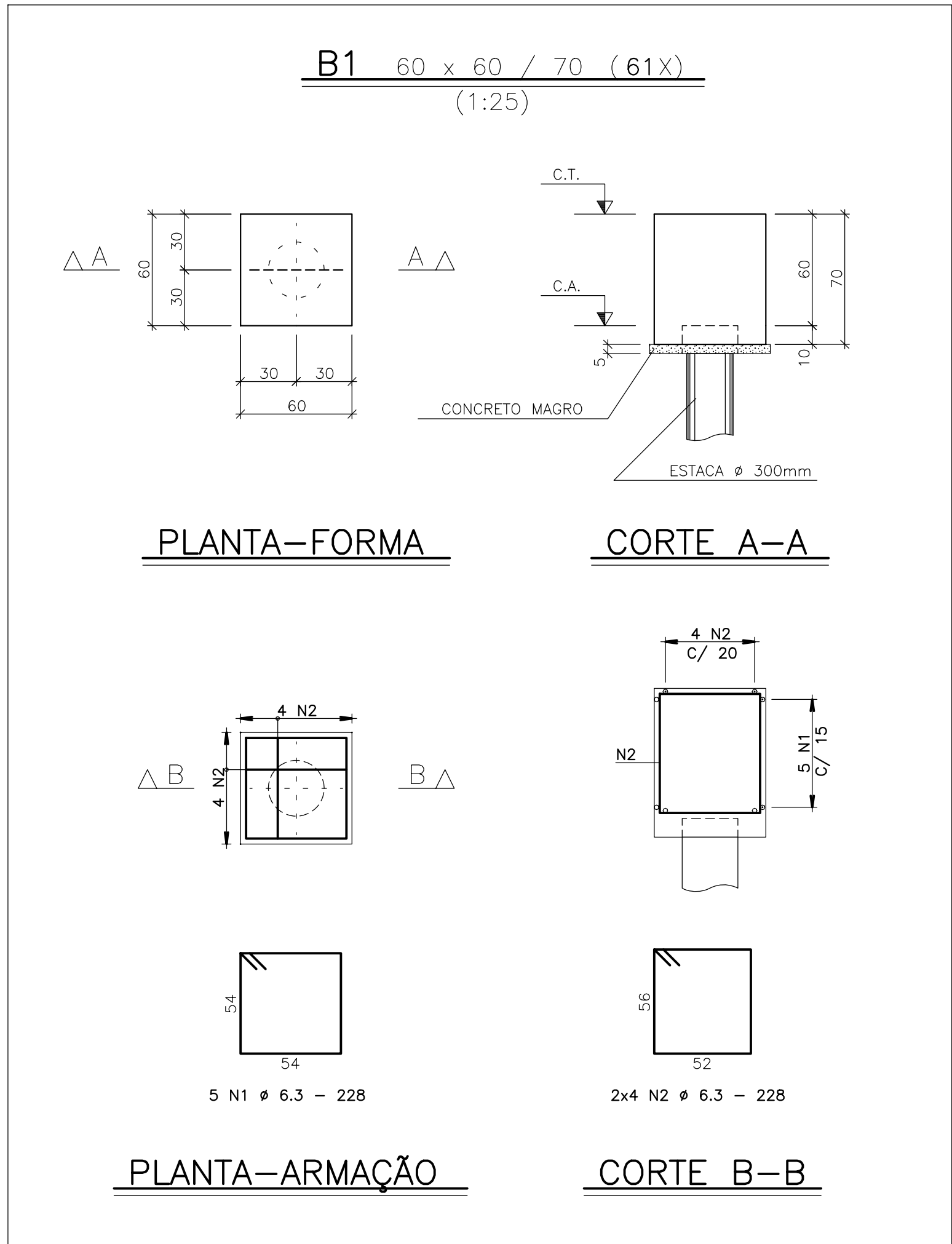






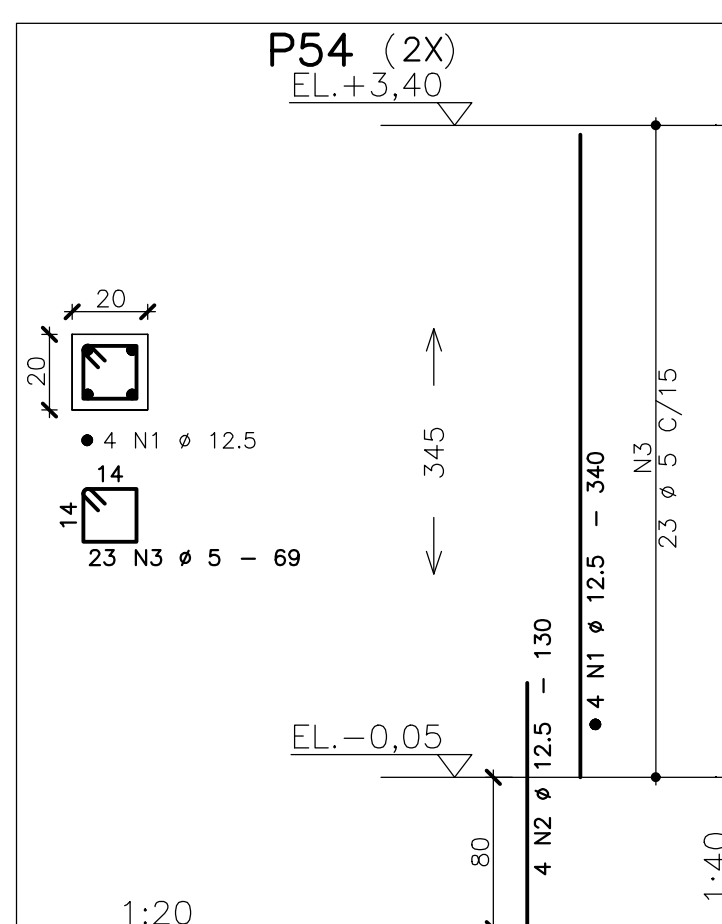
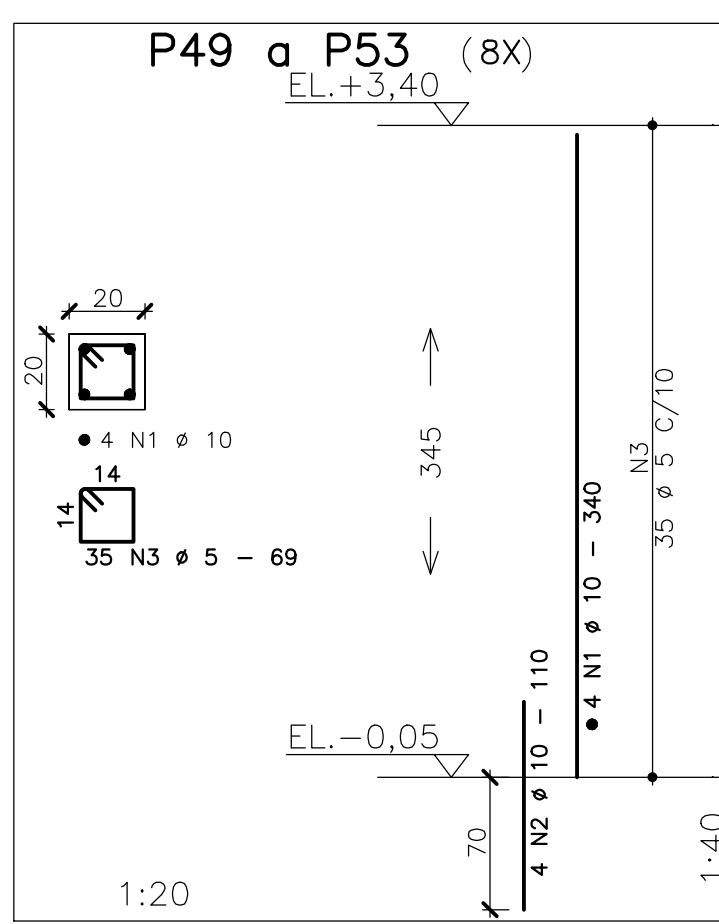
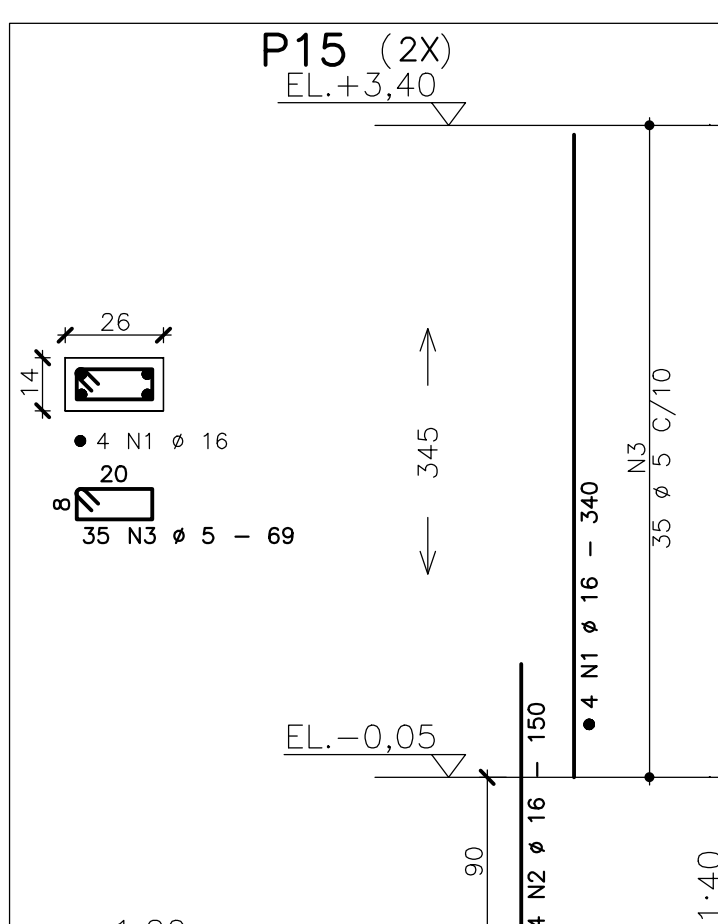
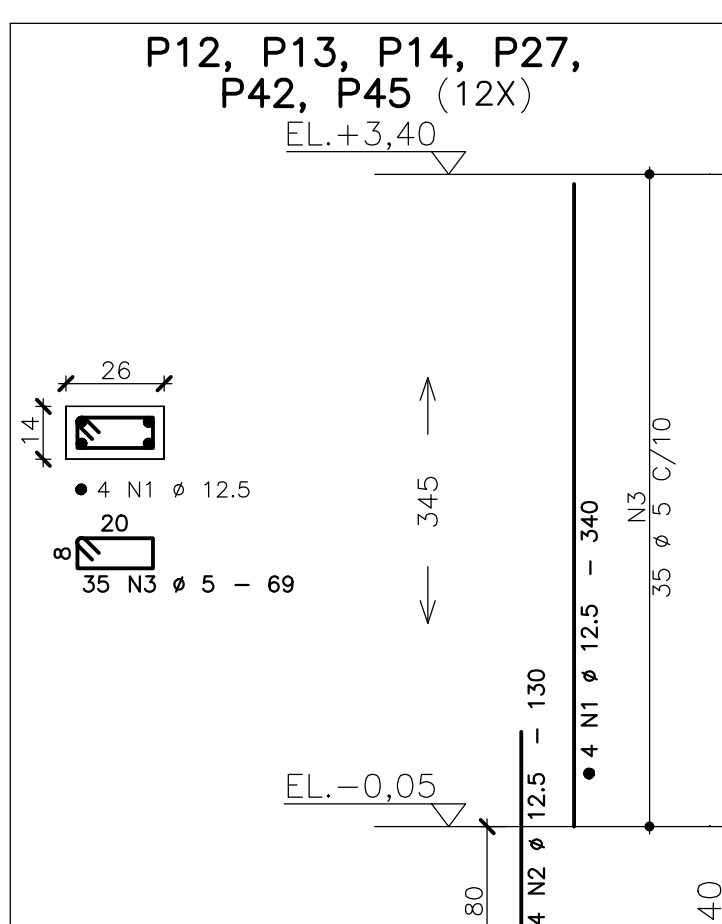
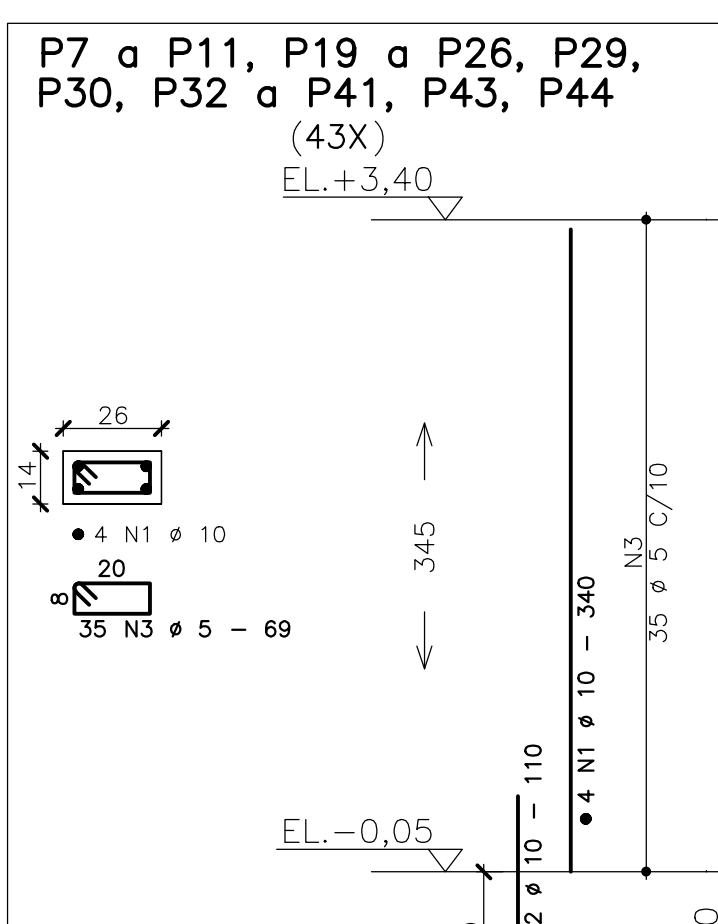
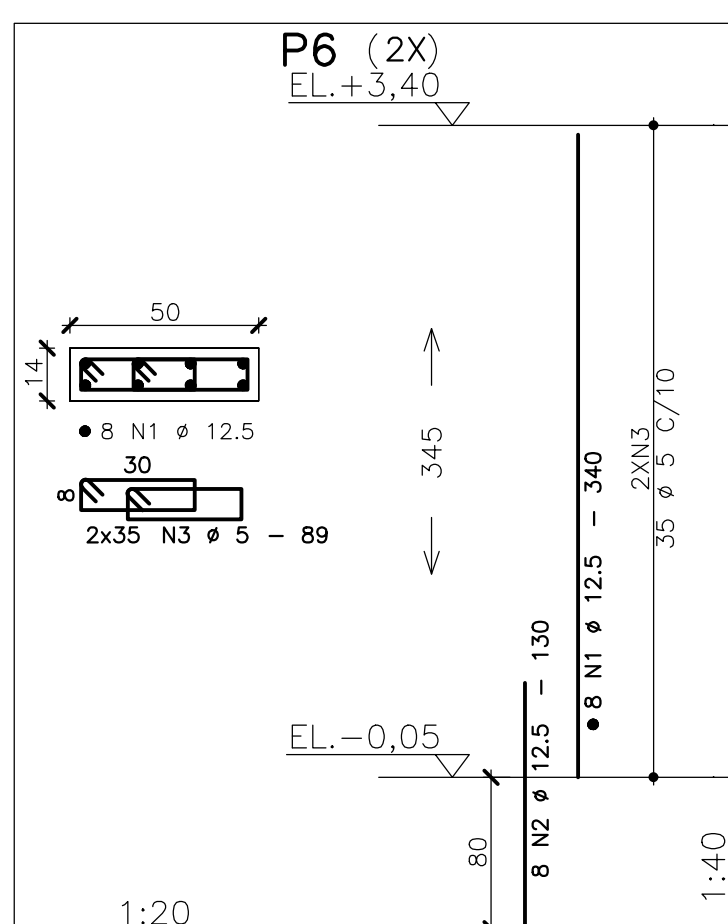
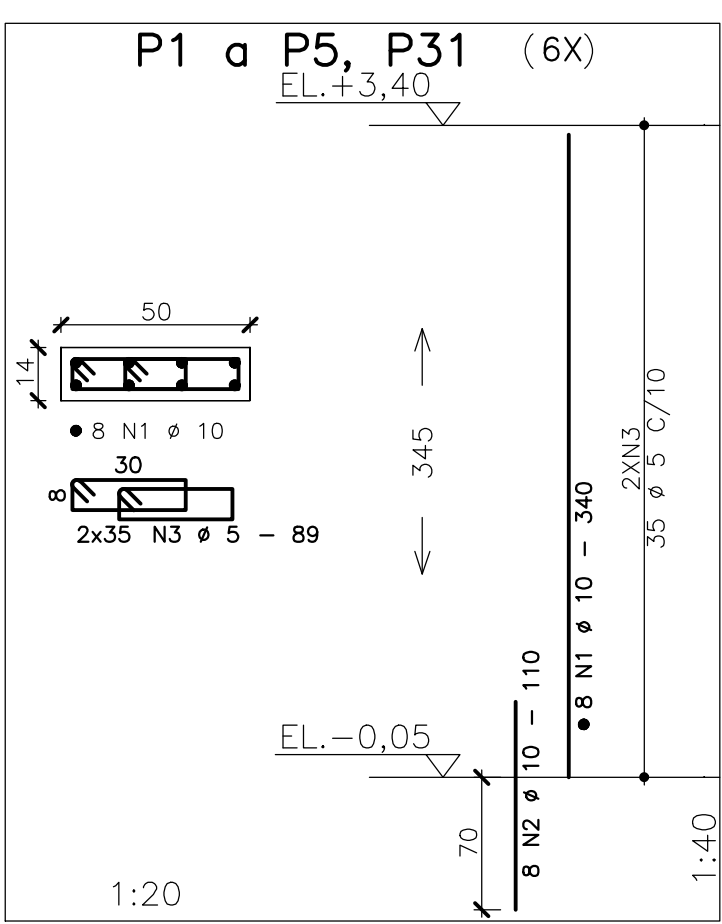
LISTA DE FERROS				
No.	Ø (mm)	QUANT.	C.UNIT. (cm)	C.TOTAL (cm)
C21=C22=C24=C25=C27=C28 (X12)				
1	8	2	105	210
2	8	24	130	3120
3	5	72	77	5544
B1 (X61)				
1	6,3	305	228	69540
2	6,3	488	238	111264
B2 (X6)				
1	6,3	48	240	11520
2	8	24	290	6960
3	10	24	280	6720
4	6,3	54	228	12312
C1=C10 (X2)				
1	8	8	755	6040
2	5	98	77	7592
C2 (X2)				
1	8	4	420	1680
2	8	4	1000	4000
3	8	4	240	960
4	8	4	380	1520
5	8	4	880	3520
6	8	4	1040	4160
8	8	288	97	22176
8	8	4	260	1040
C3=C5 (X2)				
1	8	8	235	1880
2	5	32	87	2784
3	5	4	259	1036
C4 (X6)				
1	10	2	475	950
2	8	12	880	10560
3	8	2	675	1350
4	5	41	77	3157
C6=C7=C8 (X6)				
1	10	12	280	3360
2	10	12	300	3600
3	5	98	87	8552
4	5	12	255	3060
C11=C12=C13 (X6)				
1	8	24	530	12720
2	5	188	77	14592
C15 (X2)				
1	8	4	170	680
2	5	8	77	616
C16 (X2)				
1	8	4	205	820
2	5	9	77	693
C17 (X2)				
1	8	4	505	2020
2	5	30	77	2310
C18 (X3)				
1	8	4	595	2380
2	5	30	77	2310
C19=C20 (X3)				
1	8	6	290	1740
2	8	12	880	10560
3	5	144	87	12528
4	5	174	77	13398
5	5	12	372	4464
C23=C26=C29 (X6)				
1	10	12	890	10680
2	8	12	880	10560
3	5	144	87	12528
4	5	174	77	13398
5	5	12	372	4464
CT1 (X6)				
1	8	4	VAR	68672
2	5	1009	78	78702
P1 a P5, P31 (X6)				
1	10	48	340	16320
2	10	48	110	5280
3	5	420	89	37380
P6 (X2)				
1	16	18	340	5440
2	12,5	18	130	2080
3	5	140	89	12460
P15 (X2)				
1	16	8	340	2720
2	16	8	150	1200
3	5	70	89	4830
P12, P13, P14, P27, P42, P43, P44 (X12)				
1	12,5	48	340	16320
2	12,5	48	130	6240
3	5	420	89	37380
P7 a P11, P19 a P26, P30, P32 a P41, P43, P44 (X43)				
1	11	172	340	54465
2	10	172	110	18920
3	5	1505	89	103845
P49 a P53 (X8)				
1	10	32	340	10880
2	10	32	130	2600
3	5	280	69	19320
P54 (X2)				
1	12,5	8	340	2720
2	12,5	8	130	1040
3	5	46	89	3114


RESUMO AÇO CA 50-60			
AÇO	Ø (mm)	COMPR (m)	PESO (kg)
60	8	4085	827
50	6,3	2347	501
50	8	1416	569
50	10	1407	868
50	12,5	357	54
50	16	40	14
Peso Total	60	=	627 kg
Peso Total	50	=	2336 kg



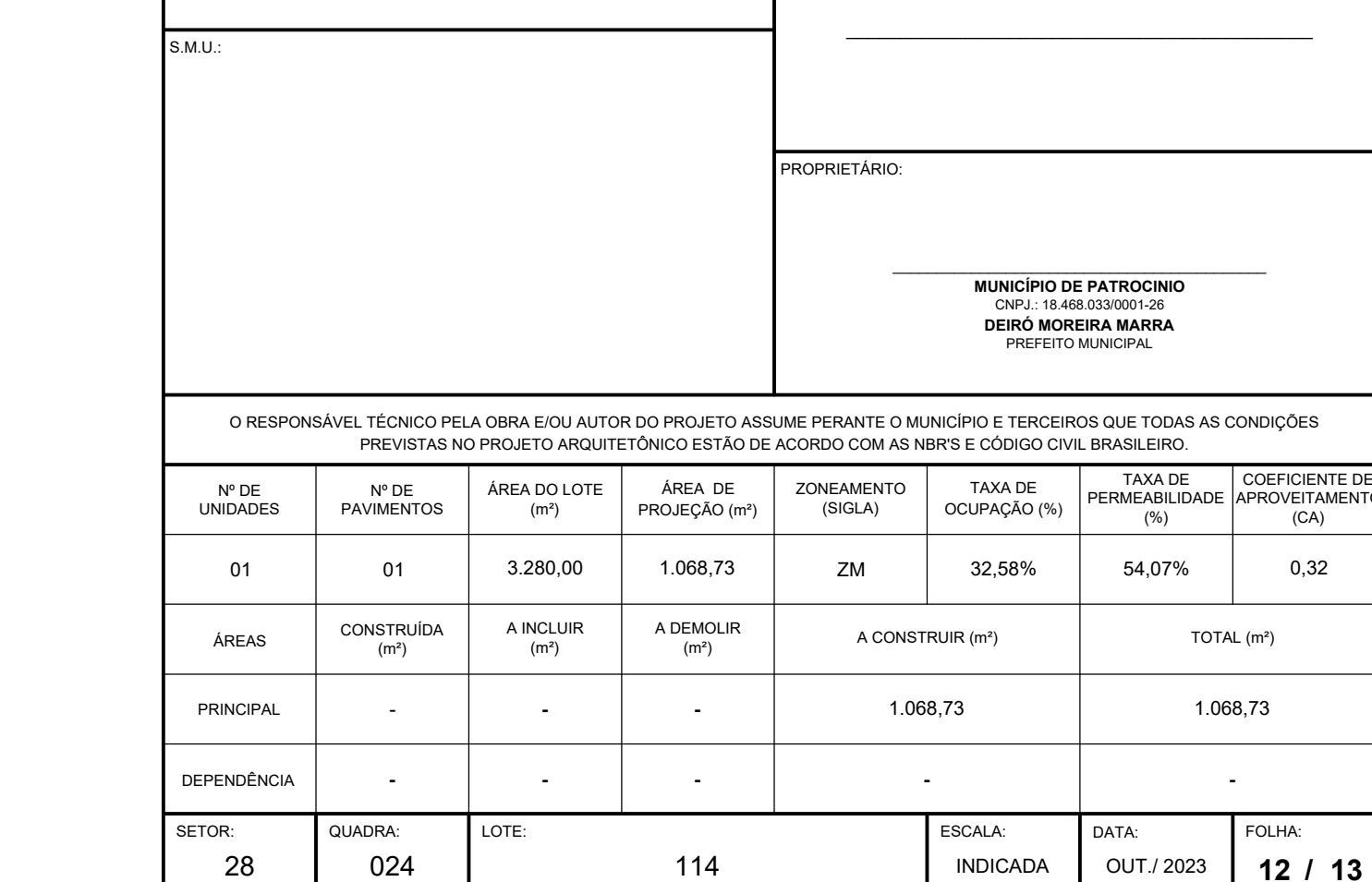
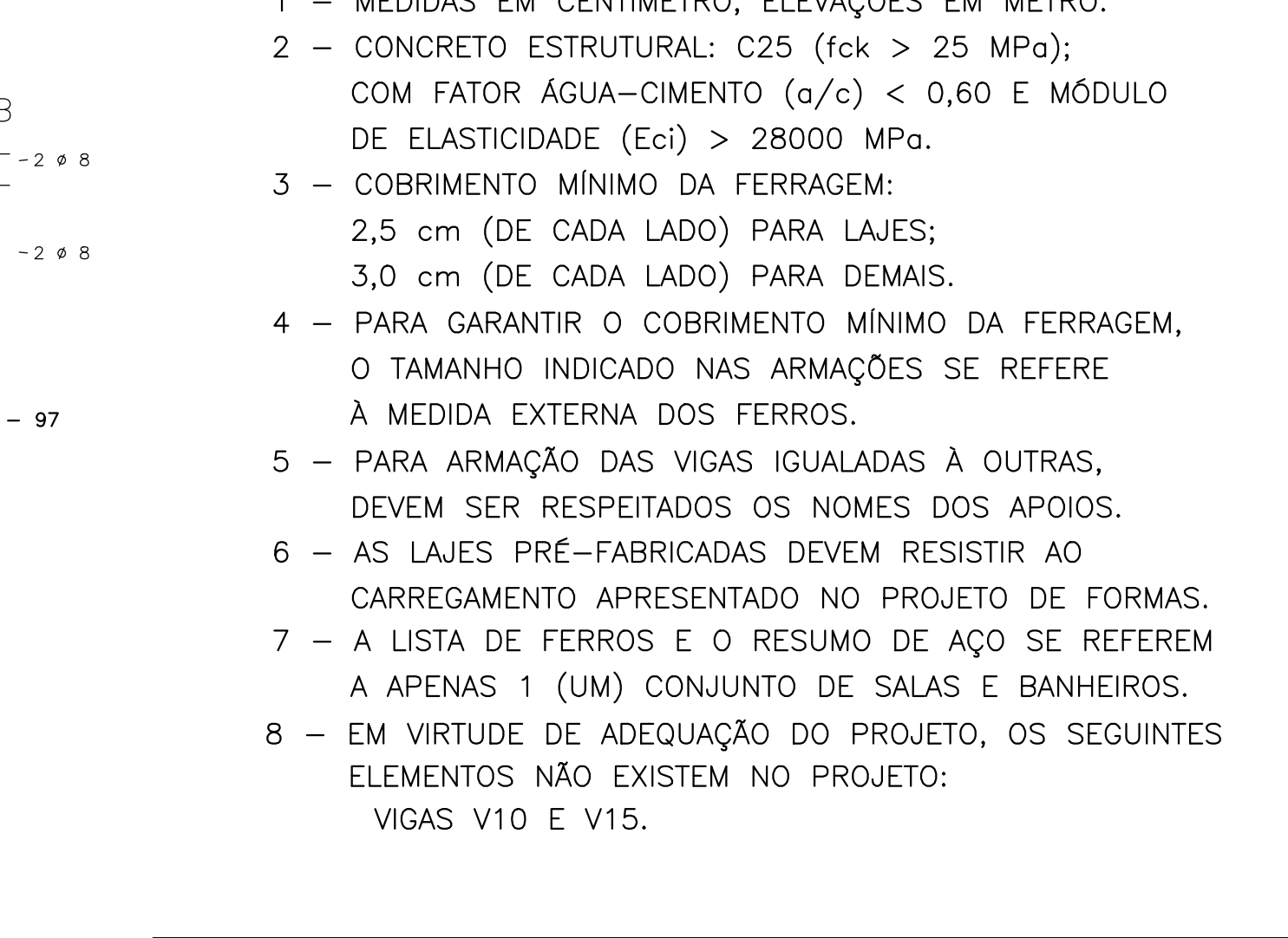
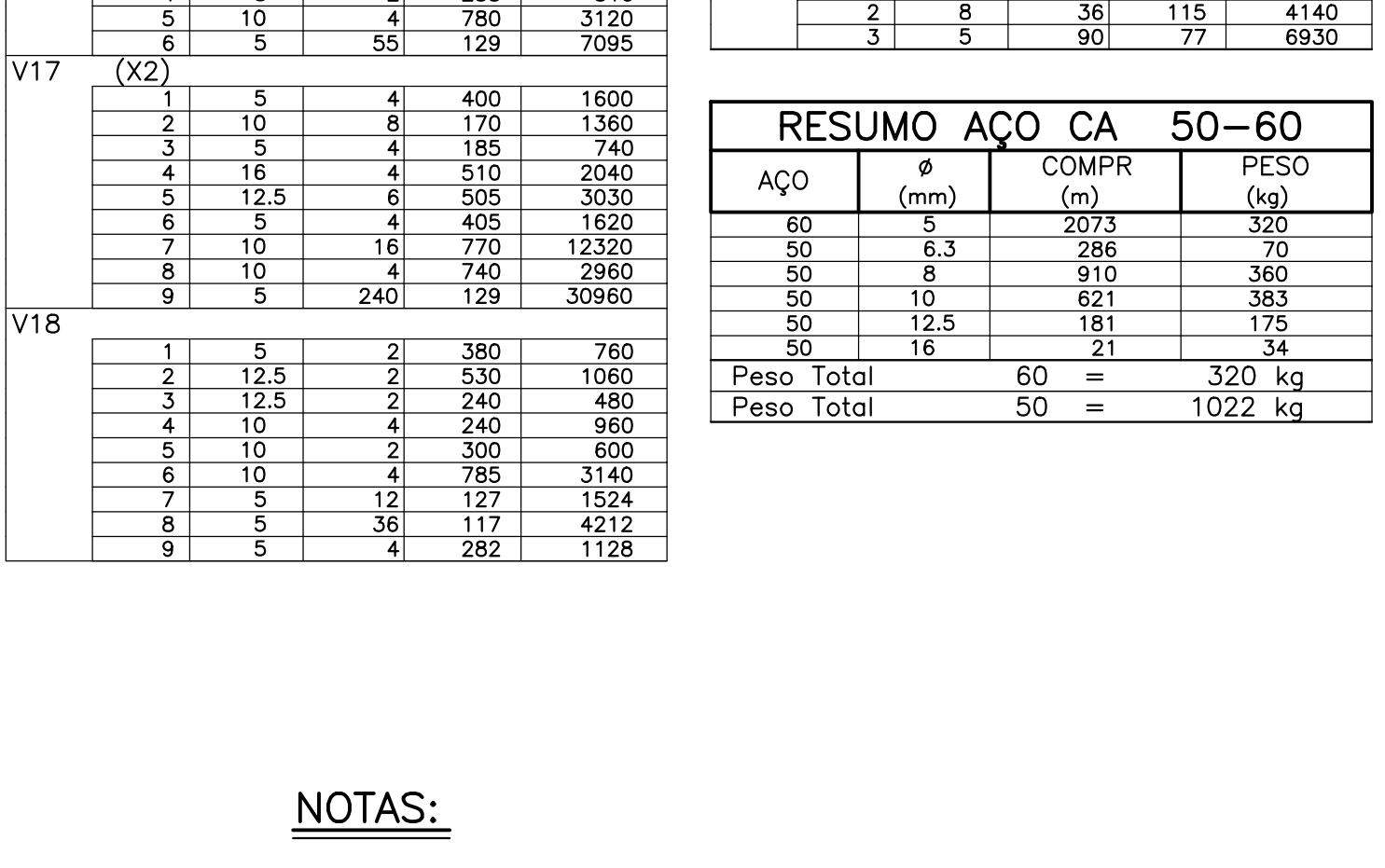
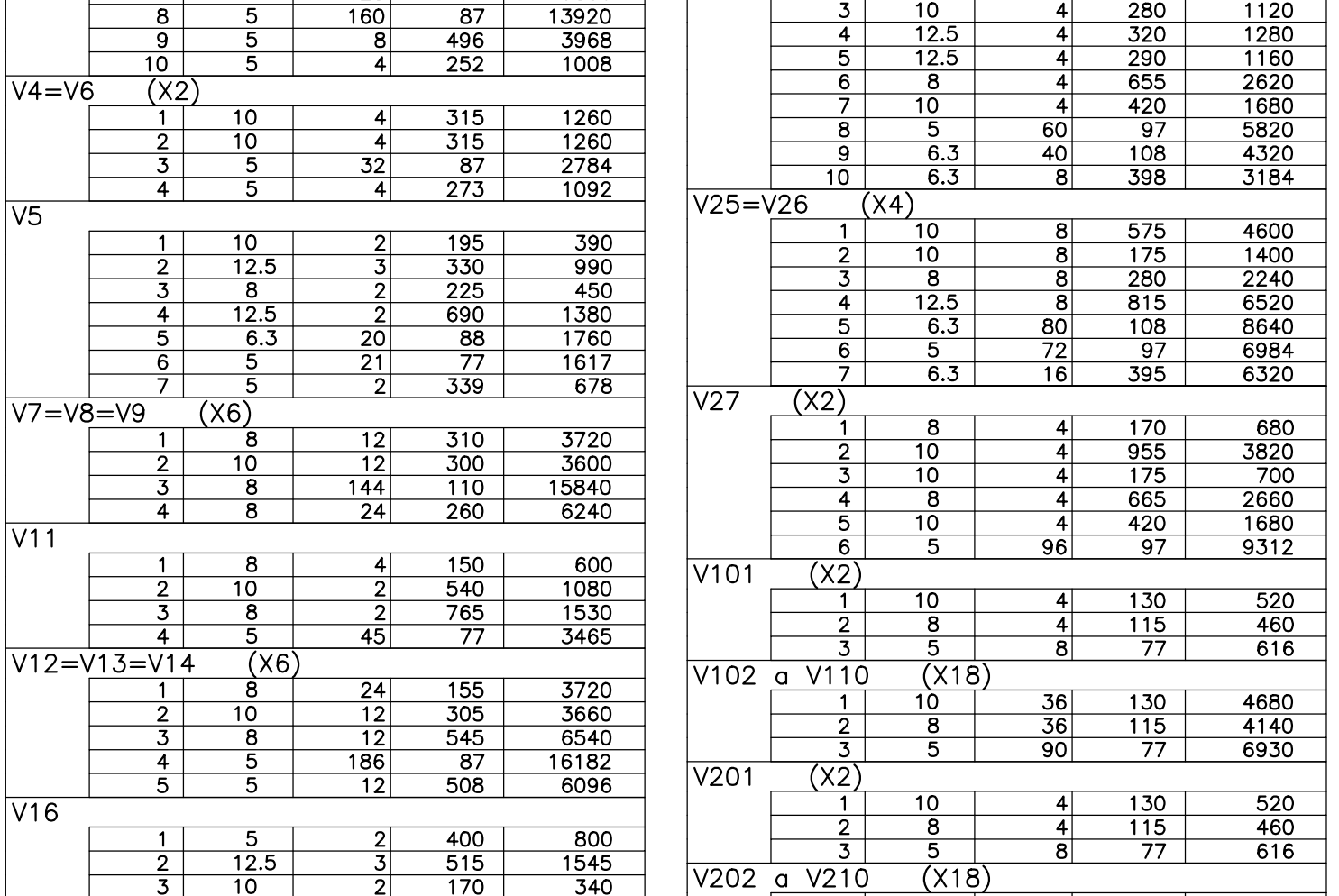
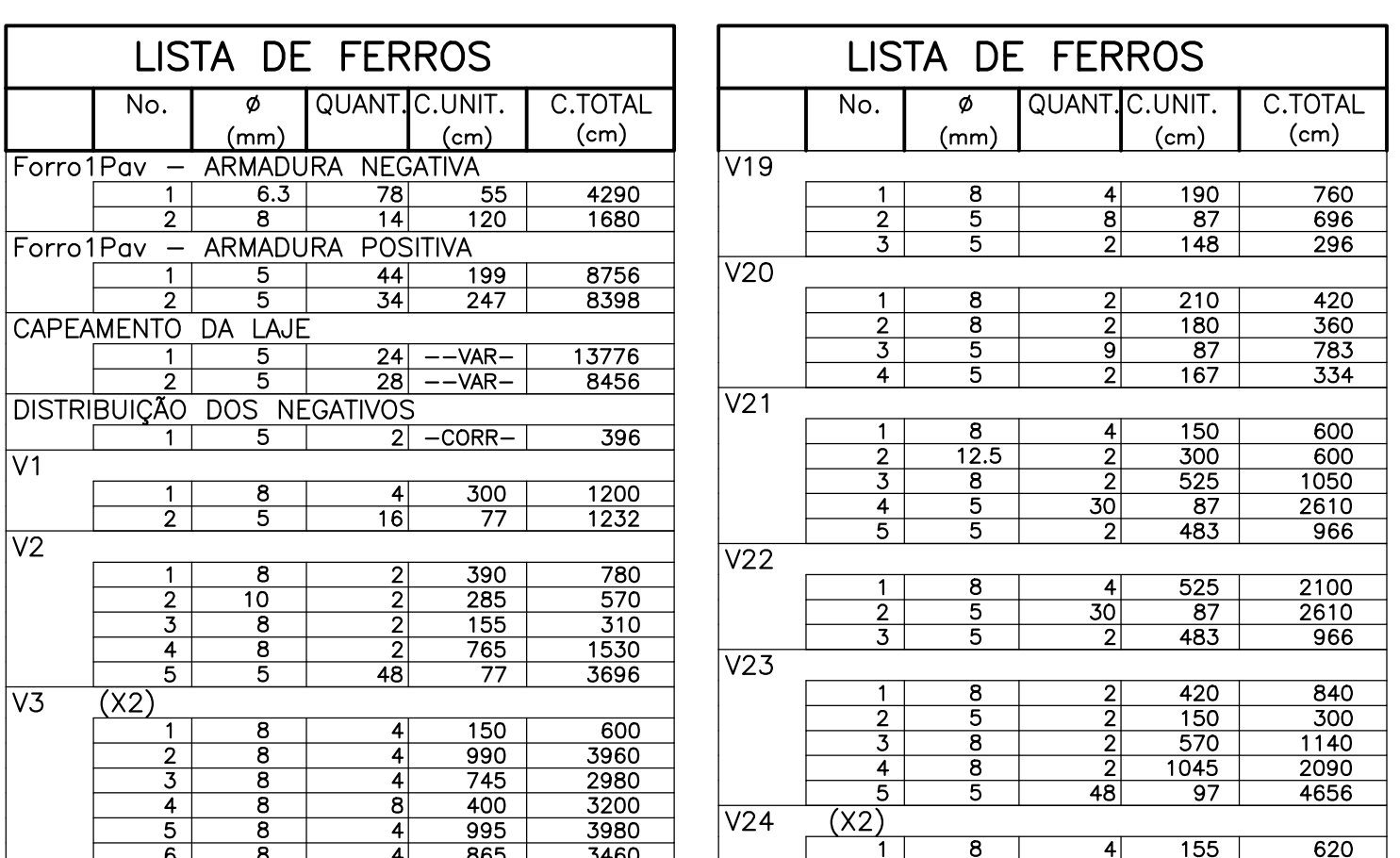
#### NOTAS:

- 1 - MEDIDAS EM CENTÍMETRO, ELEVAÇÕES EM METRO.
- 2 - CONCRETO ESTRUTURAL: C25 (fck > 25 MPa); COM FATOR ÁGUA-CIMENTO (a/c) < 0,60 E MÓDULO DE ELASTICIDADE (Eci) > 28000 MPa.
- 3 - COBRIMENTO MÍNIMO DA FERRAGEM: 3,0 cm (DE CADA LADO).
- 4 - PARA GARANTIR O COBRIMENTO MÍNIMO DA FERRAGEM, O TAMANHO INDICADO NAS ARMAÇÕES SE REFERE À MEDIDA EXTERNA DOS FERROS.
- 5 - PARA ARMAÇÃO DAS VIGAS IGUAIS ÀS OUTRAS, DEVEM SER RESPEITADOS OS NOMES DOS APOIOS.
- 6 - A LISTA DE FERROS E O RESUMO DE AÇO SE REFEREM A APENAS 1 (UM) CONJUNTO DE SALAS E BANHEIROS.
- 7 - EM VIRTUDE DE ADEQUAÇÃO DO PROJETO, OS SEGUINTE ELEMENTOS NÃO EXISTEM NO PROJETO: PILARES P16, P17, P18, P28, P46, P47, P48, P55; CINTAS DE FUNDAÇÃO C9 E C14.



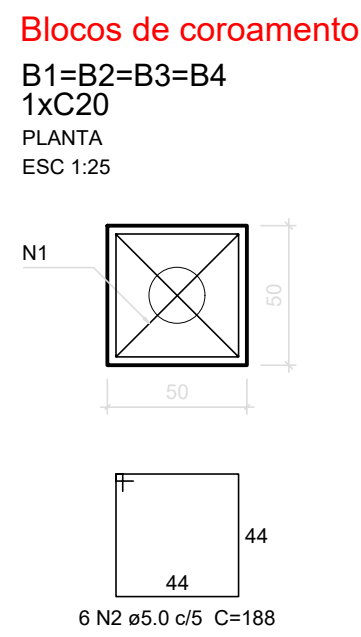
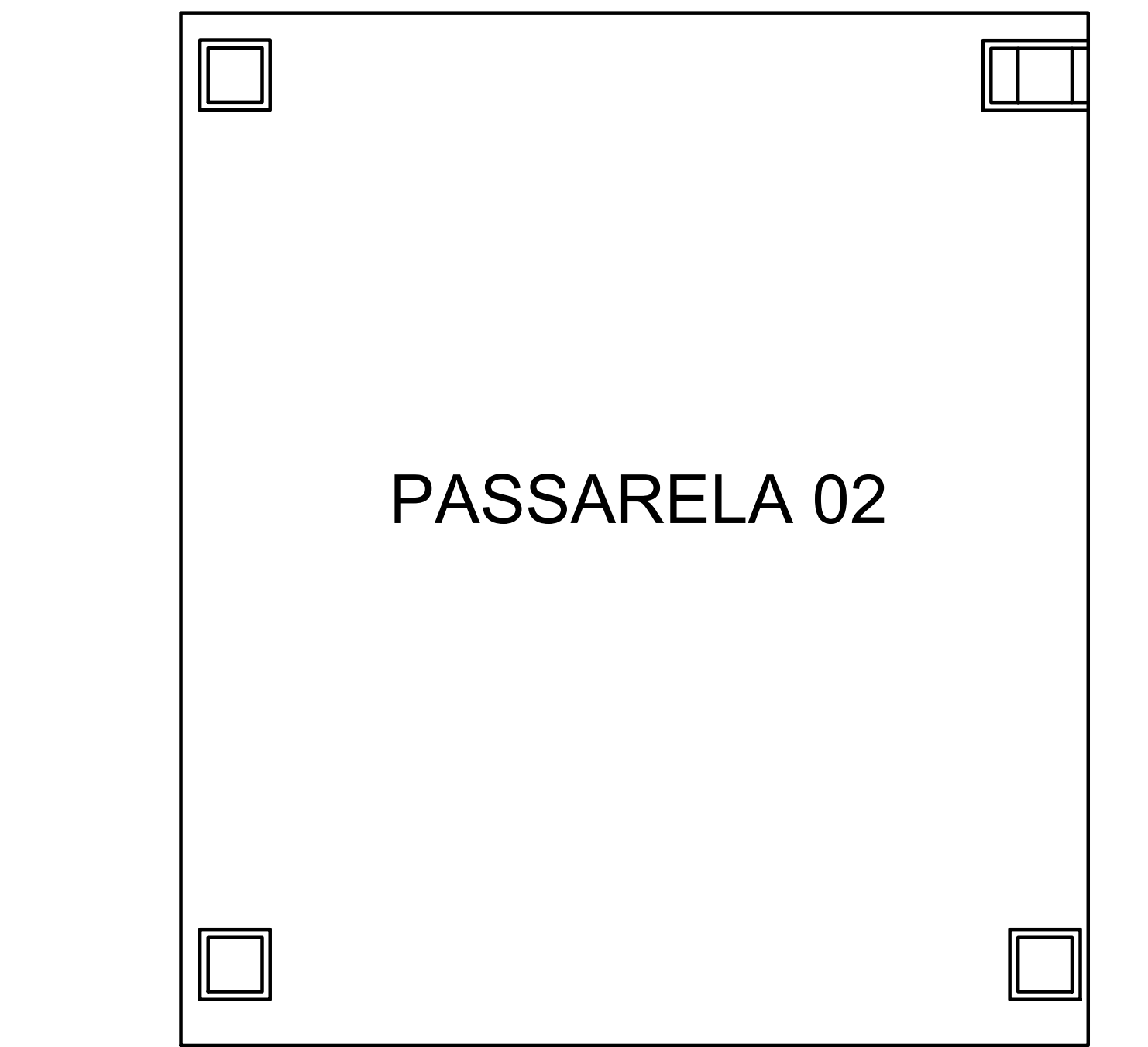
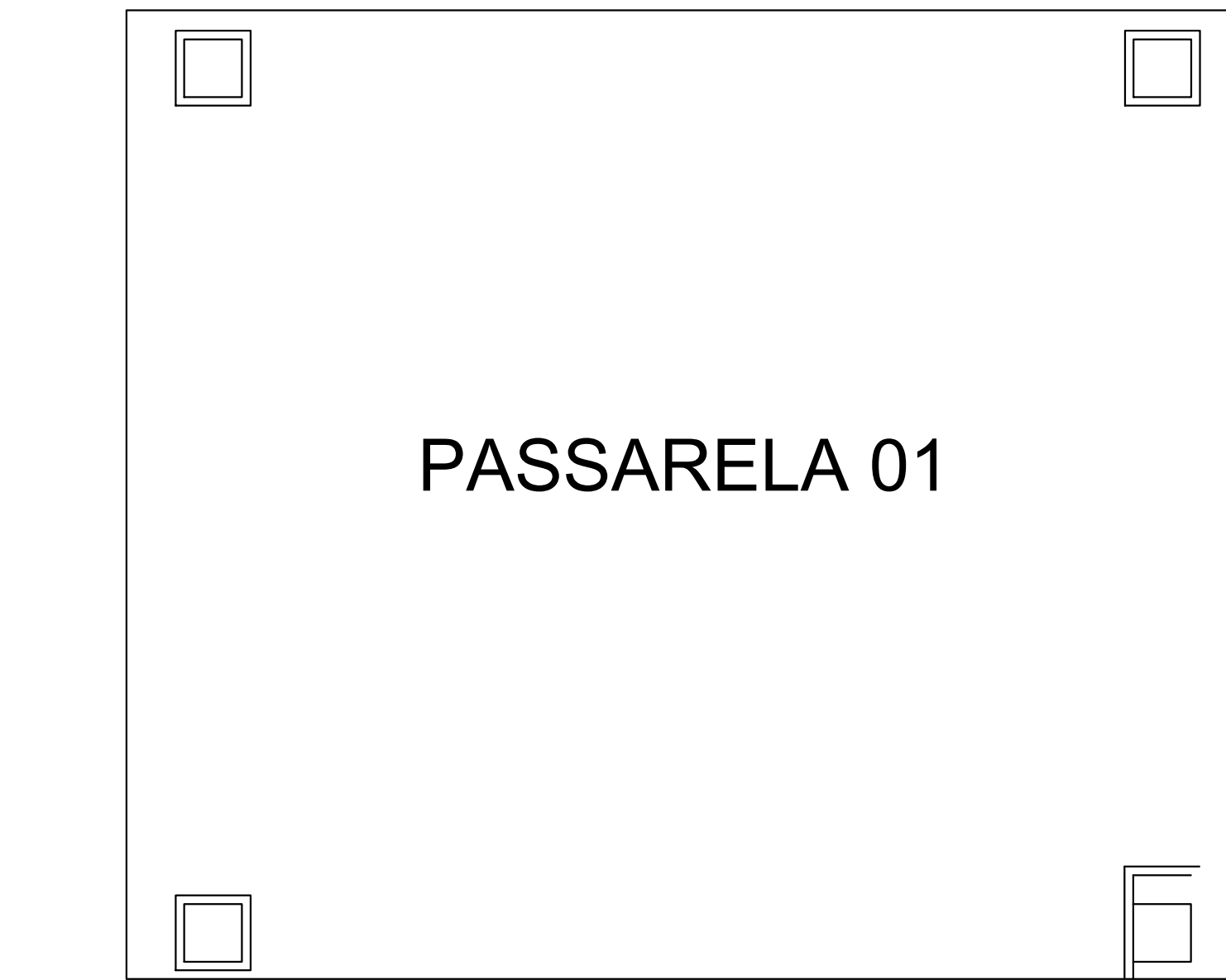
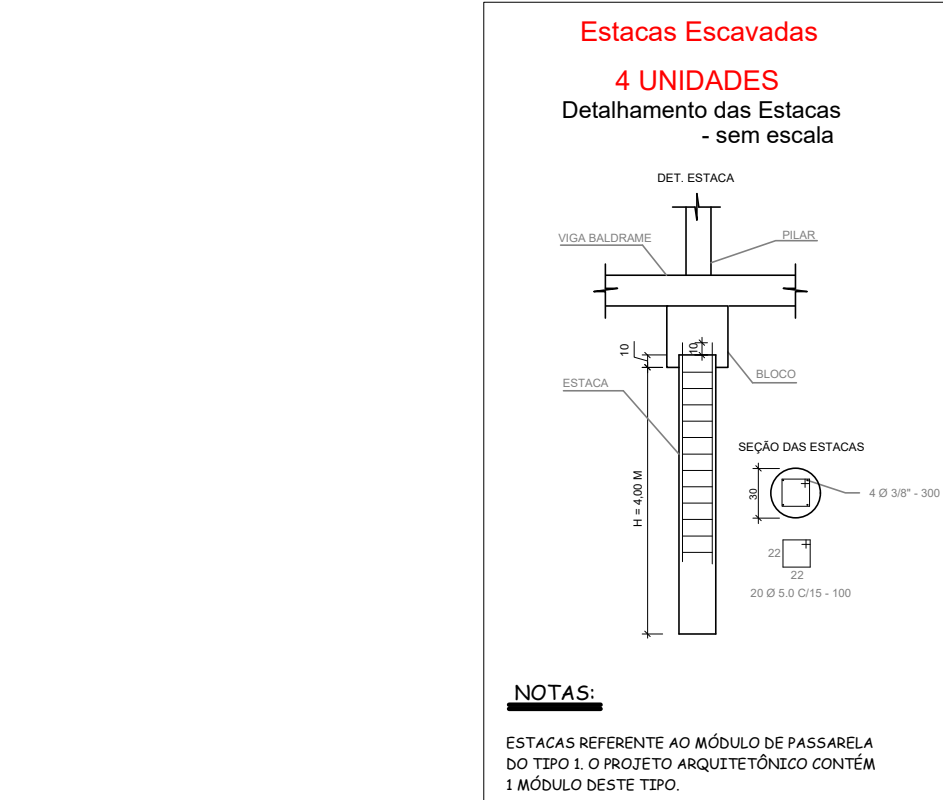
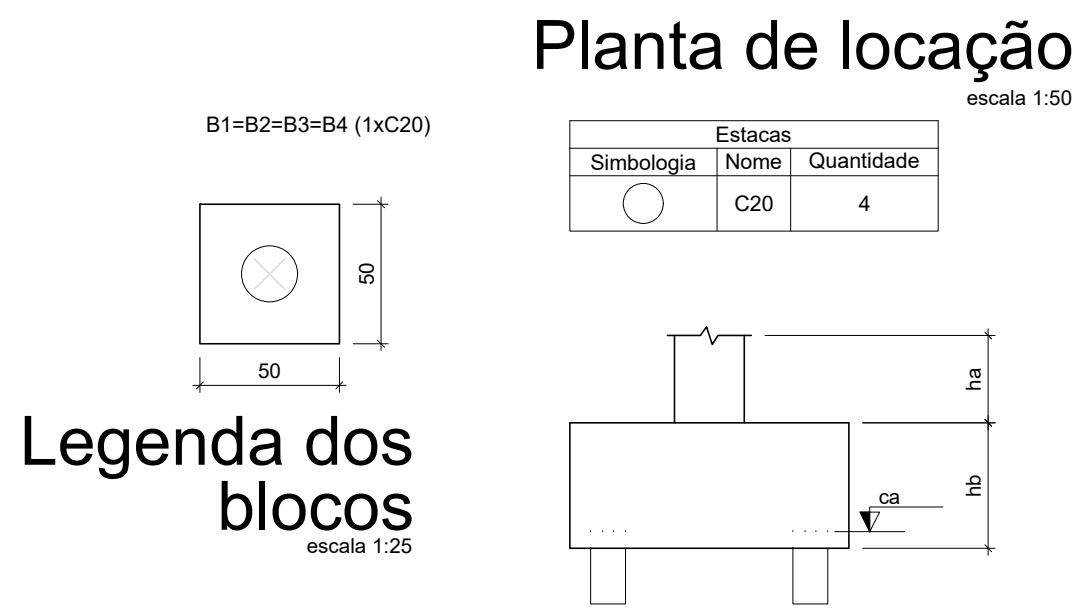
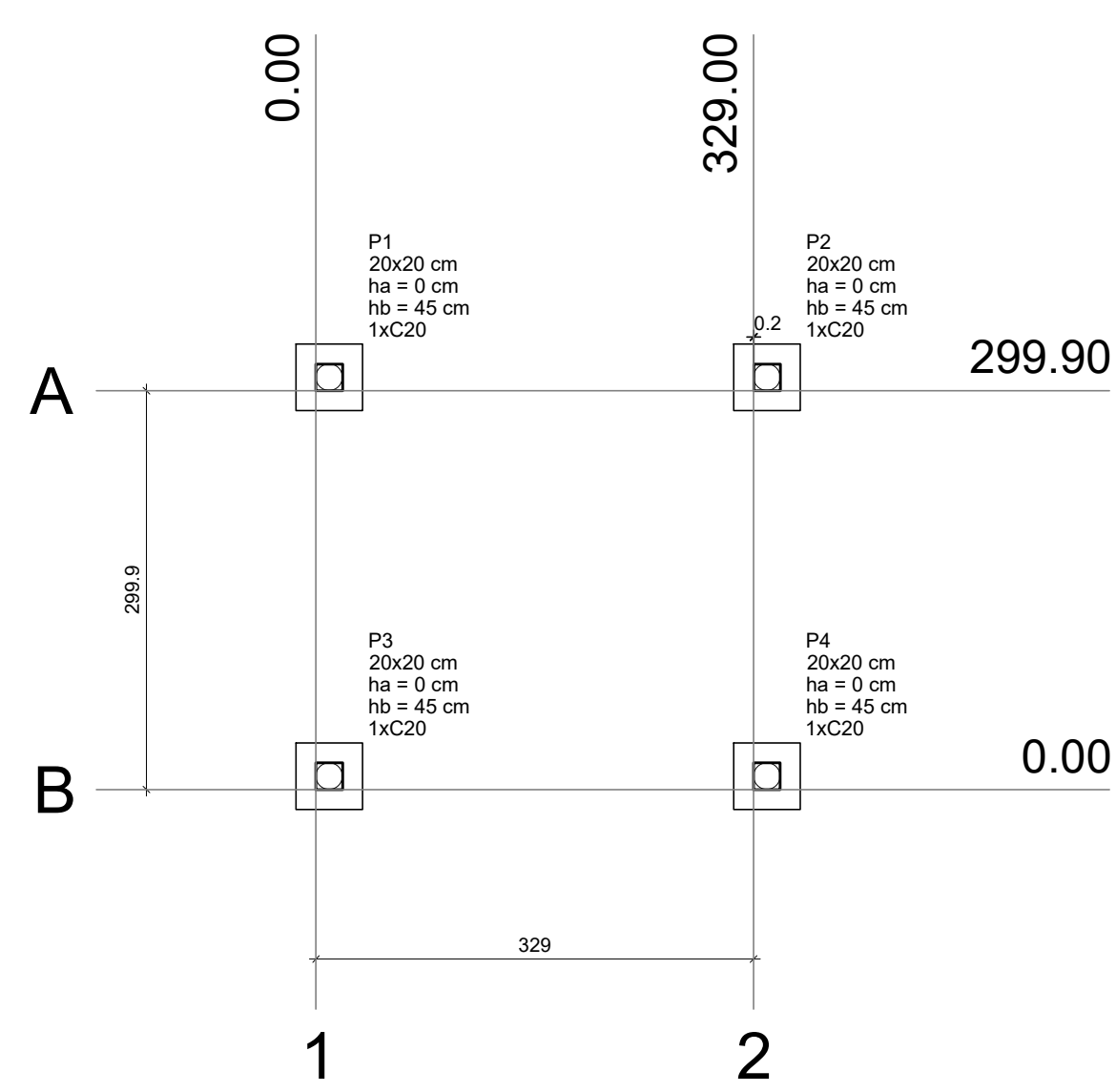
 <p>SECRETARIA MUNICIPAL DE URBANISMO - SIMU</p>		TODOS OS DIREITOS RESERVADOS. ESTE DOCUMENTO NÃO PODE SER UTILIZADO, COPIADO OU Cedido PARA FINS DE TERCEIROS, SEM A AUTORIZAÇÃO DO RESPONSÁVEL. ESTE PROJETO É DE PROPRIEDADE DA PREFEITURA MUNICIPAL DE PATROCÍNIO E DEVE SER UTILIZADO SOMENTE PELO PESSOAL AUTORIZADO, DENTRO DOS INTERESSES DO MUNICÍPIO. É PROIBIDA A SUA REPRODUÇÃO TOTAL OU PARCIAL SEM PERMISSÃO PRÉVIA POR ESCRITO, DEVENDO SER DEVOLVIDO PARA O DEPARTAMENTO DE ENGENHARIA QUANDO SOLICITADO OU QUANDO DA CONCLUSÃO DOS TRABALHOS QUAIS A INFORMAÇÃO AQUI CONTEIDA FOR NECESSÁRIA.					
TÍTULO: PROJETO ESTRUTURAL							
USO: INSTITUCIONAL							
DETALHE: 6 SALAS E BANHEIRO: BLOCOS, VIGAS BALDRAME E PILARES							
PROPRIETÁRIO: MUNICÍPIO DE PATROCÍNIO		DOCUMENTO: CNPJ.: 18.488.033/0001-28					
ENDEREÇO DO NOVEL: RUA OTÁVIO DE BRITO - BAIRRO SANTO ANTÔNIO - PATROCÍNIO/MS							
BAPN:		R.T. PROJETO: ORLANDO VARGAS DA SILVA NETO/01424291645					
R.T. EXECUÇÃO:		PROPRIETÁRIO: MUNICÍPIO DE PATROCÍNIO DEODOR MOREIRA BARBA PREFEITO MUNICIPAL					
O RESPONSÁVEL TÉCNICO PELA OBRA E/OU AUTOR DO PROJETO ASSUME PELA TUDO AS CONDIÇÕES PREVISTAS NO PROJETO ARQUITETÔNICO E/OU DE ACORDO COM AS NORMAS E CÓDIGOS CIVIS BRASILEIROS.							
Nº DE UNIDADES	ÁREA DO LOTE (m²)	ÁREA DE PAVIMENTAÇÃO (m²)	ÁREA DE PROTEÇÃO (m²)	ZONAMENTO (m²)	OCUPAÇÃO (m²)	TAXA DE PERMANÊNCIA (m²)	CONDIÇÃO DE APROPRIAÇÃO (m²)
01	01	3.280,00	1.068,73	2M	32,38%	54,07%	0,32
PRINCIPAL	CONSTRUTIVA (m²)	A INCLUIR (m²)	A DEMOLIR (m²)	A CONSTRUIR (m²)	TOTAL (m²)		
-	-	-	-	1.068,73	1.068,73		
DEPENDÊNCIA	-	-	-	-	-		
SETOR:	QUADRA:	LOTE:	ESCALA:		DATA:	FOLHA:	
28	024	114	INDICADA		CUT / 2023	11 / 13	



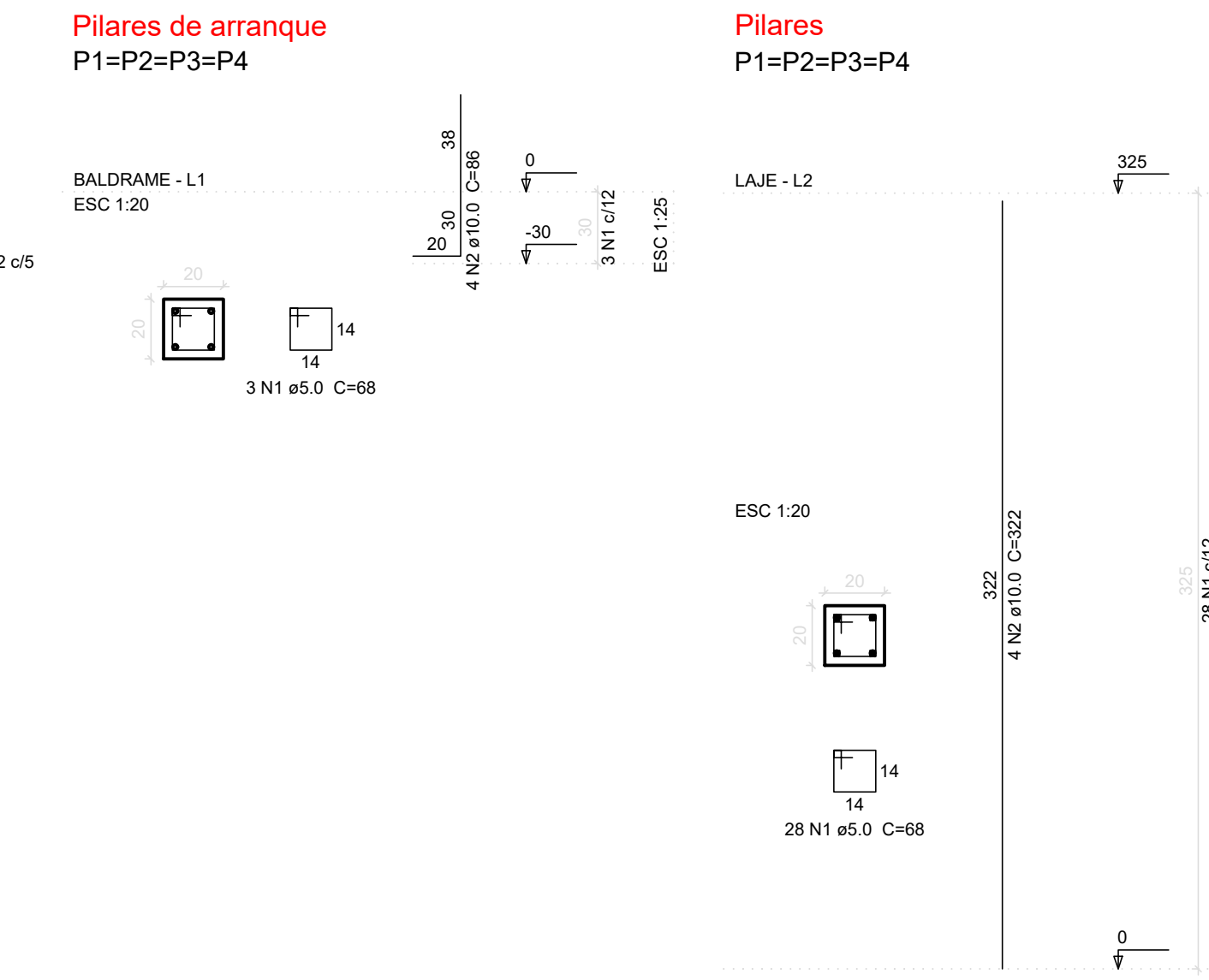




PASSARELA TIPO 1: QUANTIDADE = 1 UNIDADE

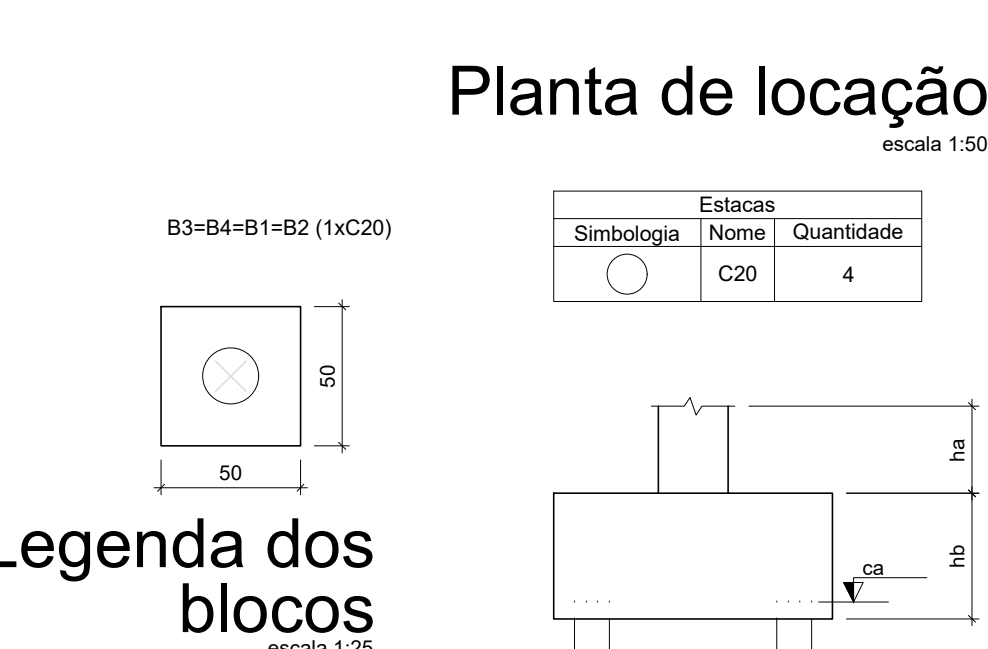
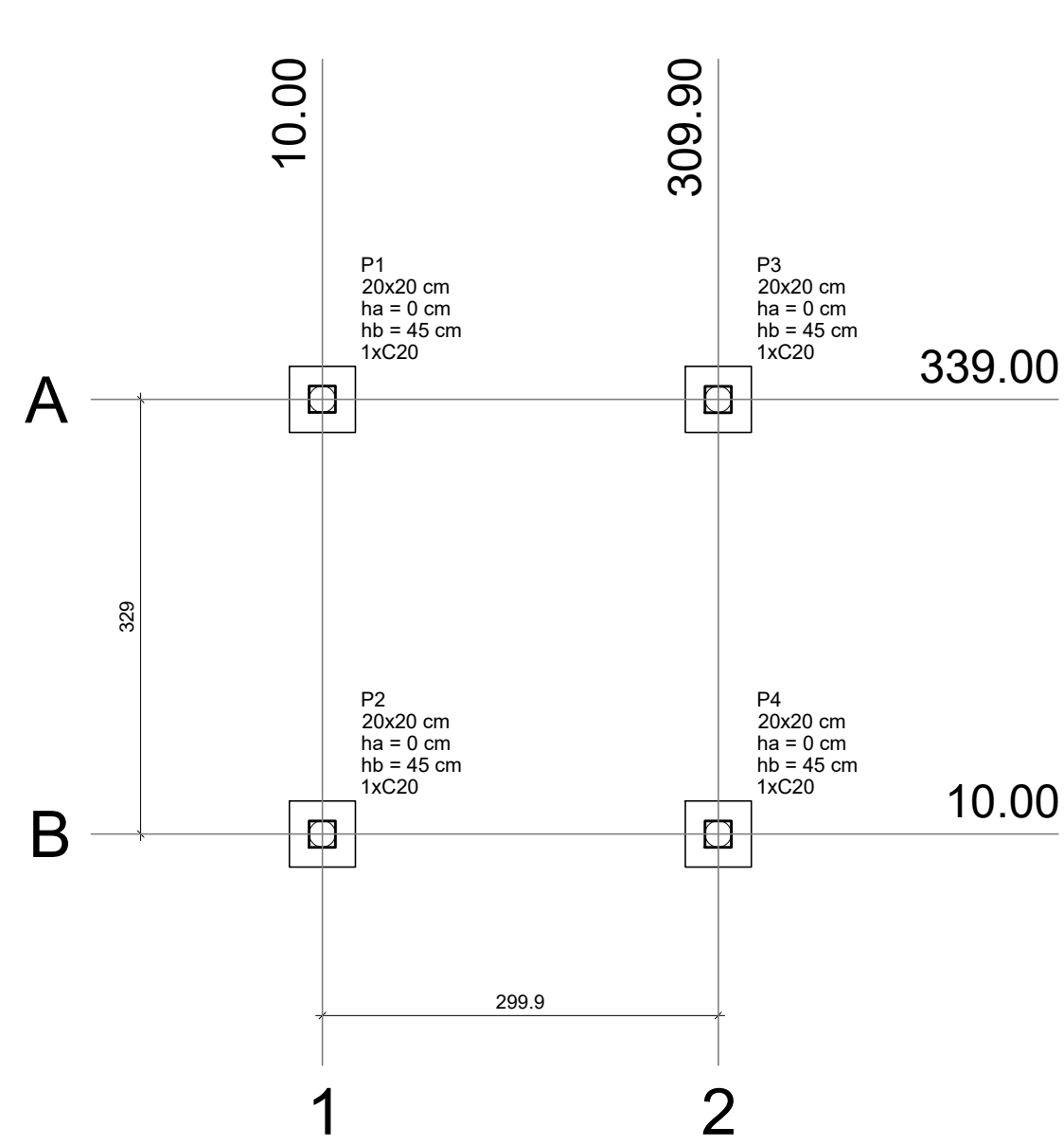


Forma do pavimento Baldrame

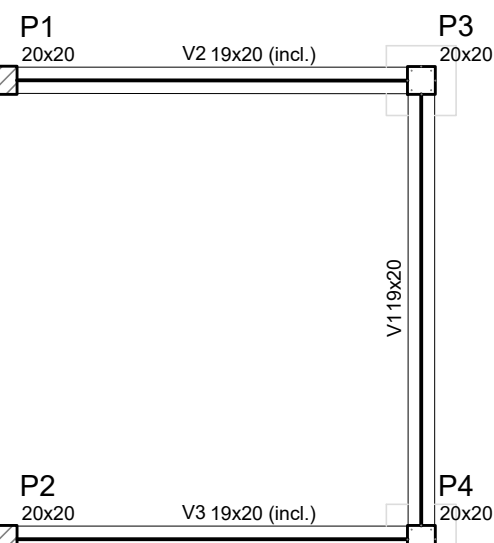


Forma do pavimento Laje

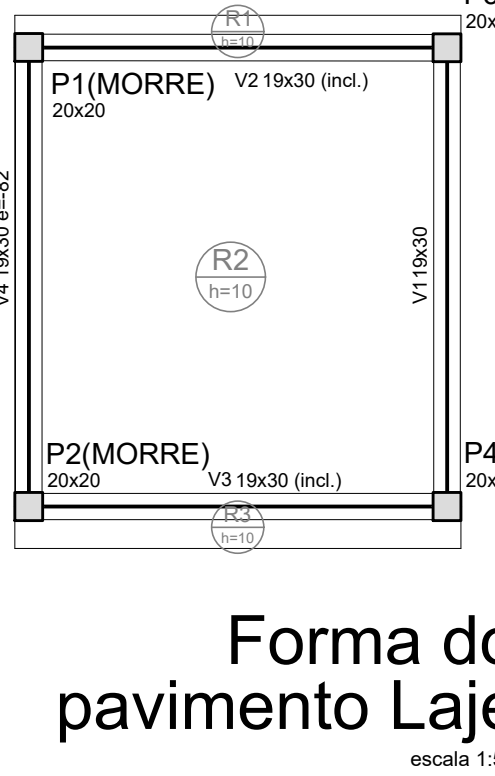
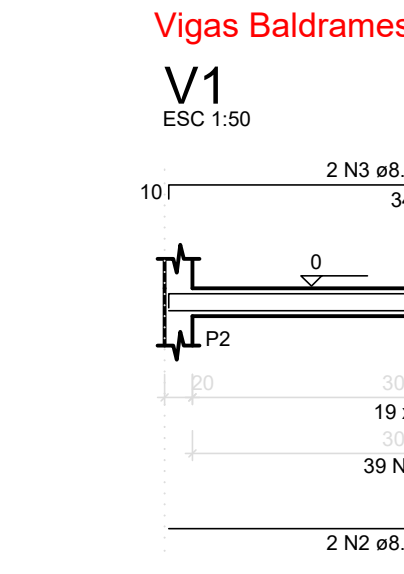
PASSARELA TIPO 2: QUANTIDADE = 1 UNIDADE



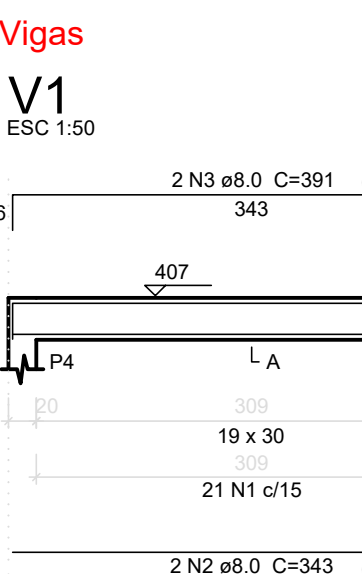
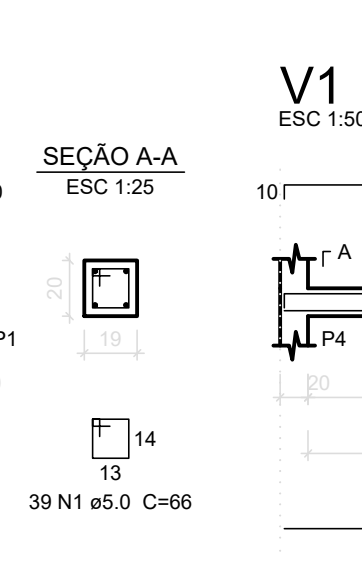
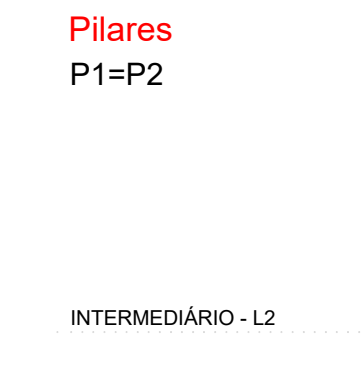
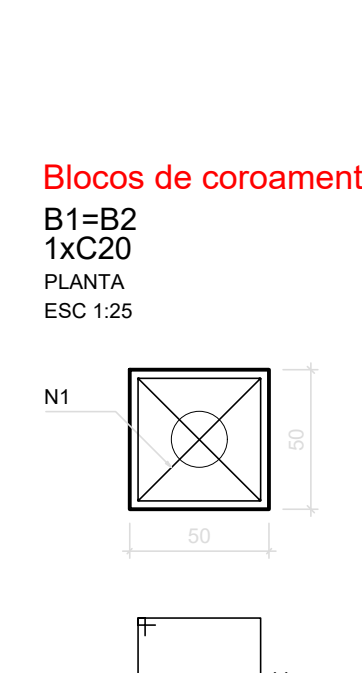
Forma do pavimento Baldrame



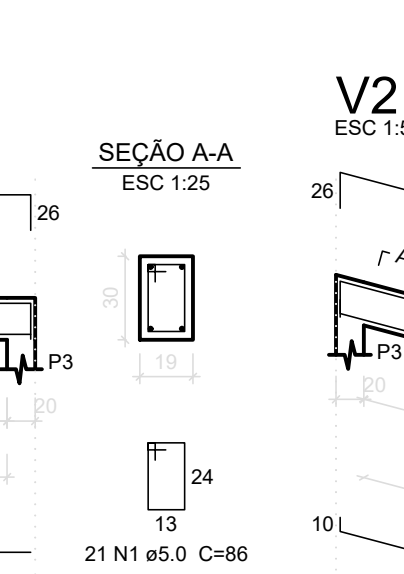
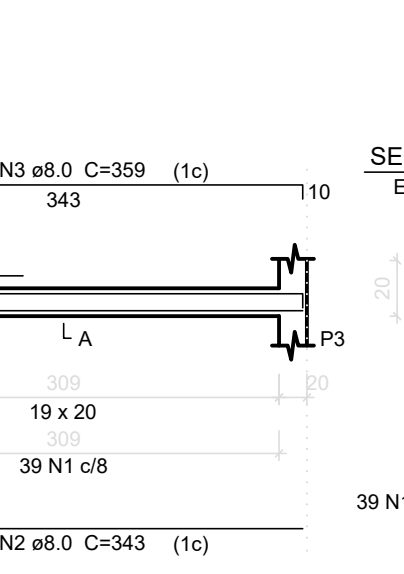
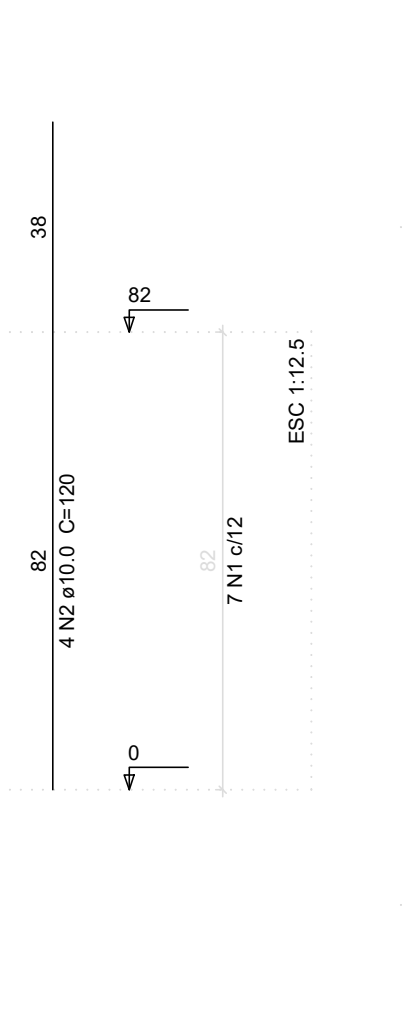
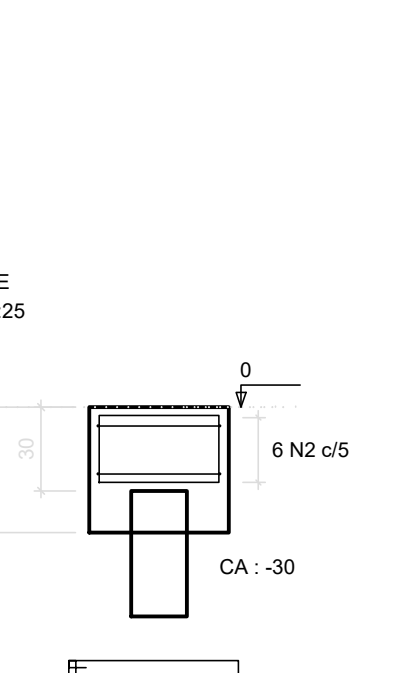
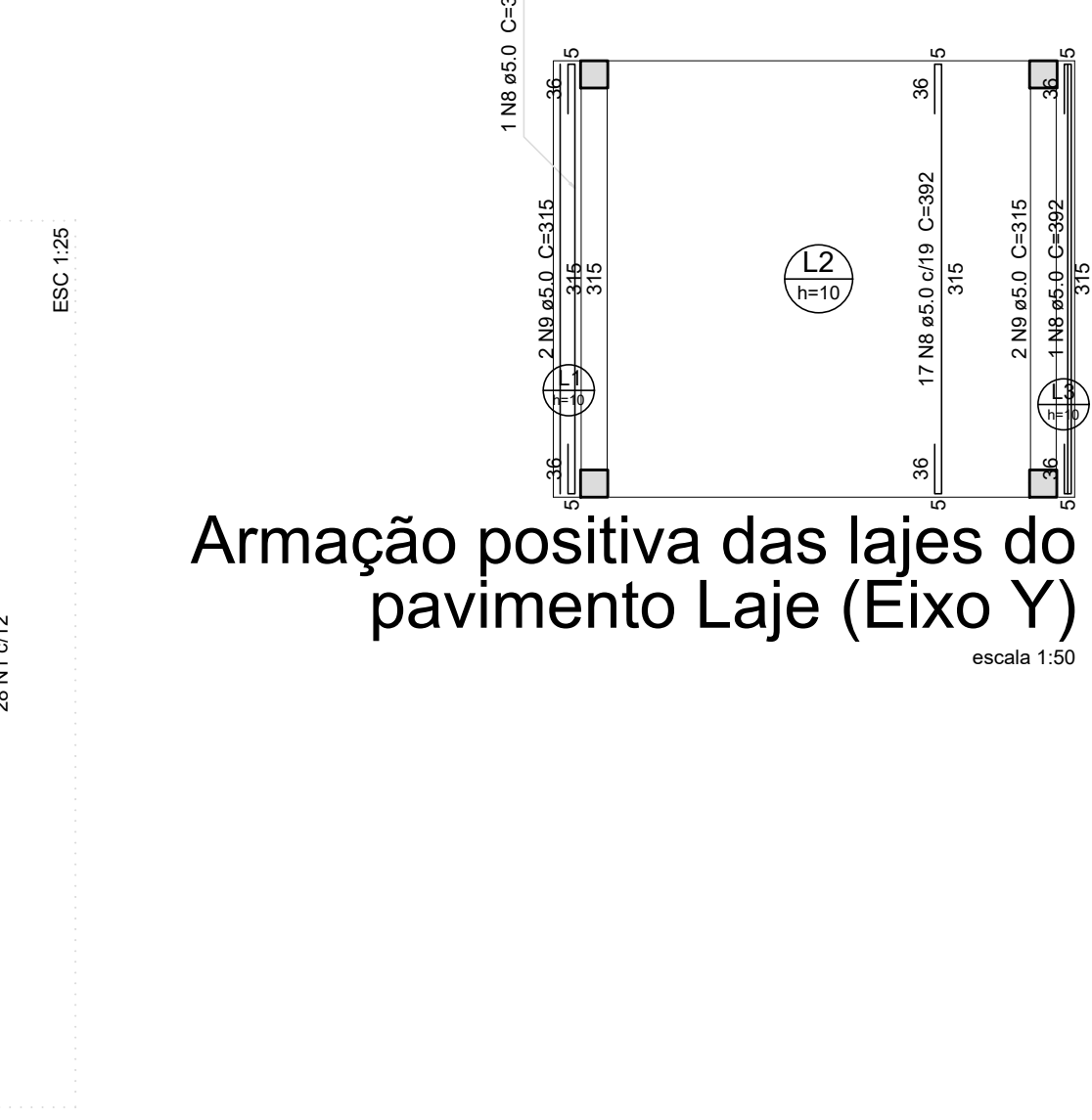
Forma do pavimento Intermediário



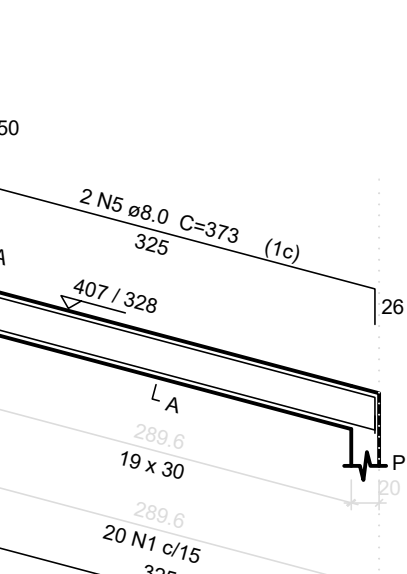
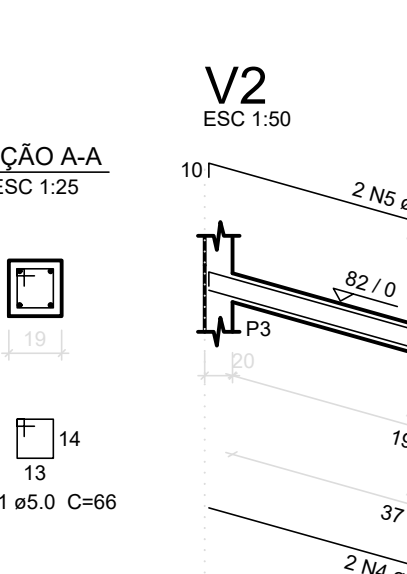
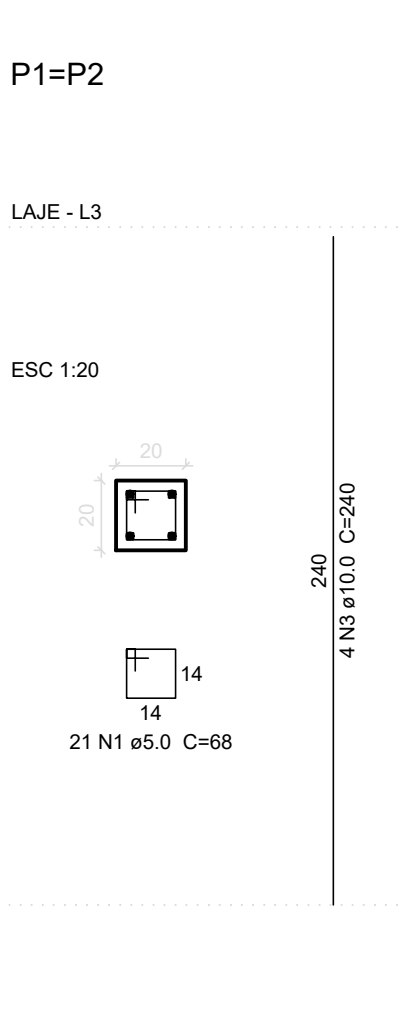
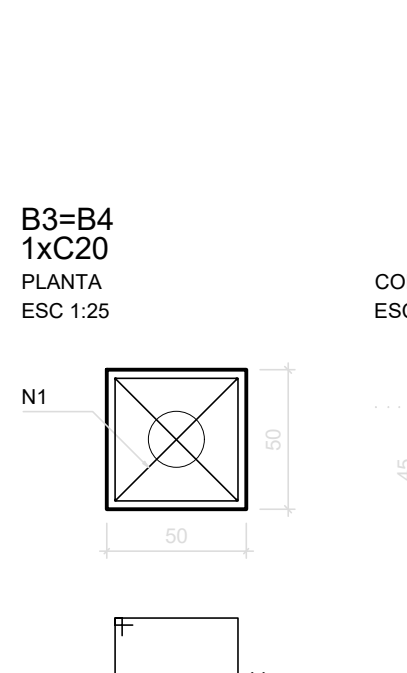
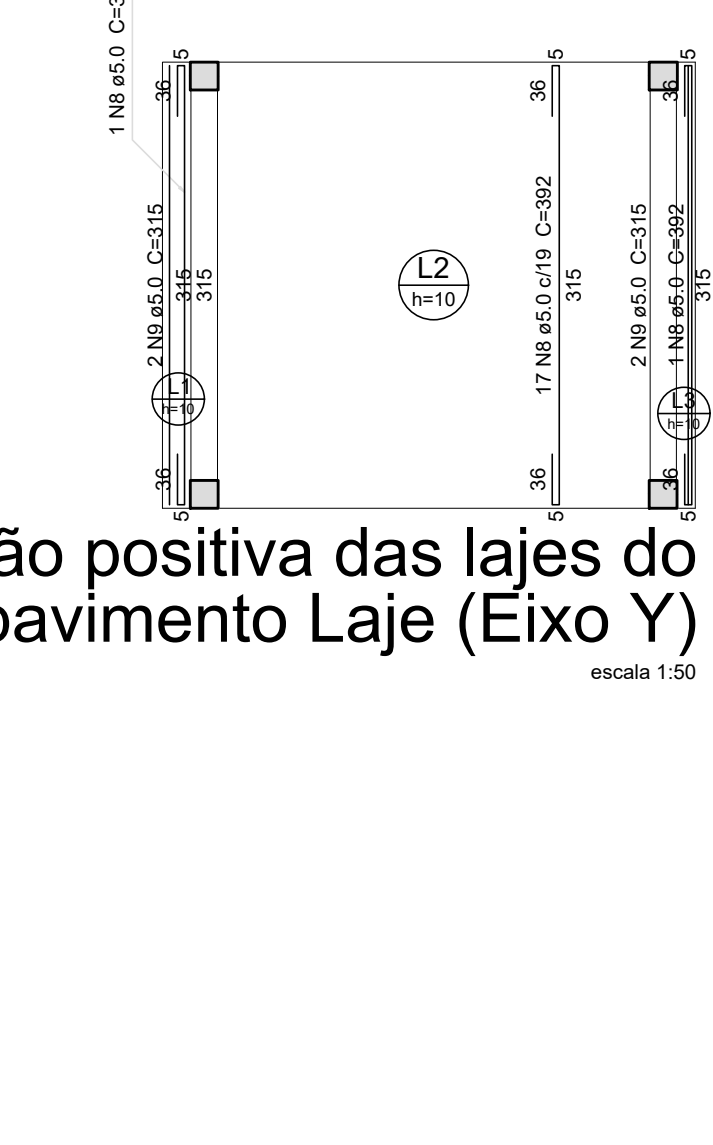
Forma do pavimento Laje



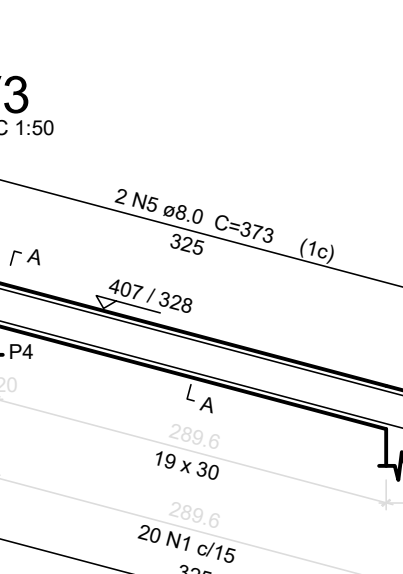
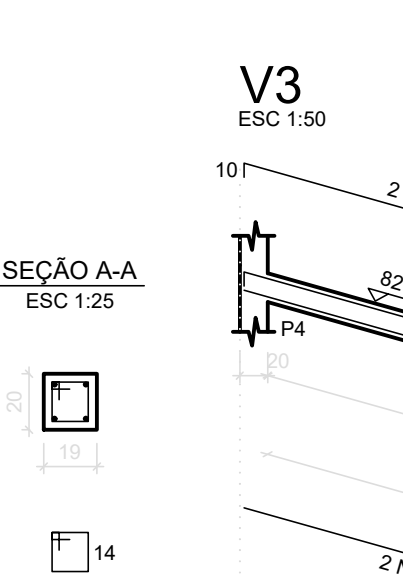
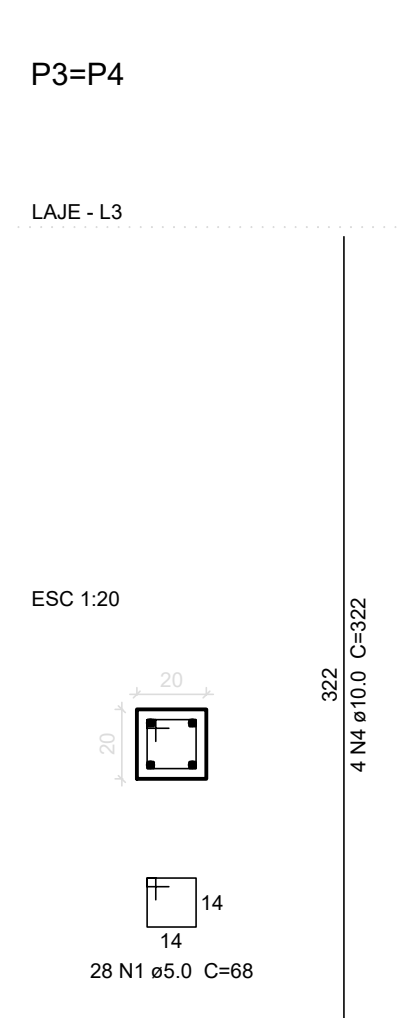
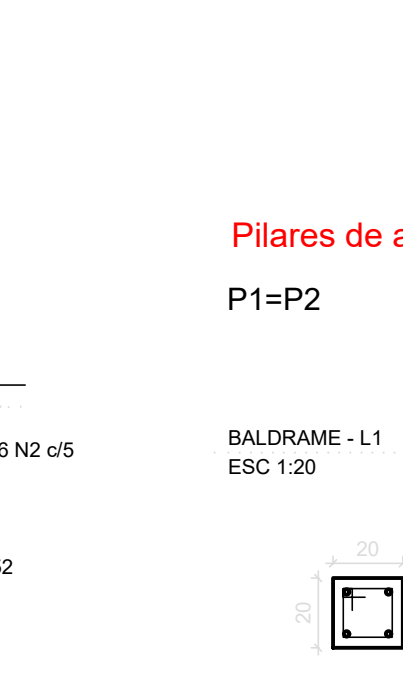
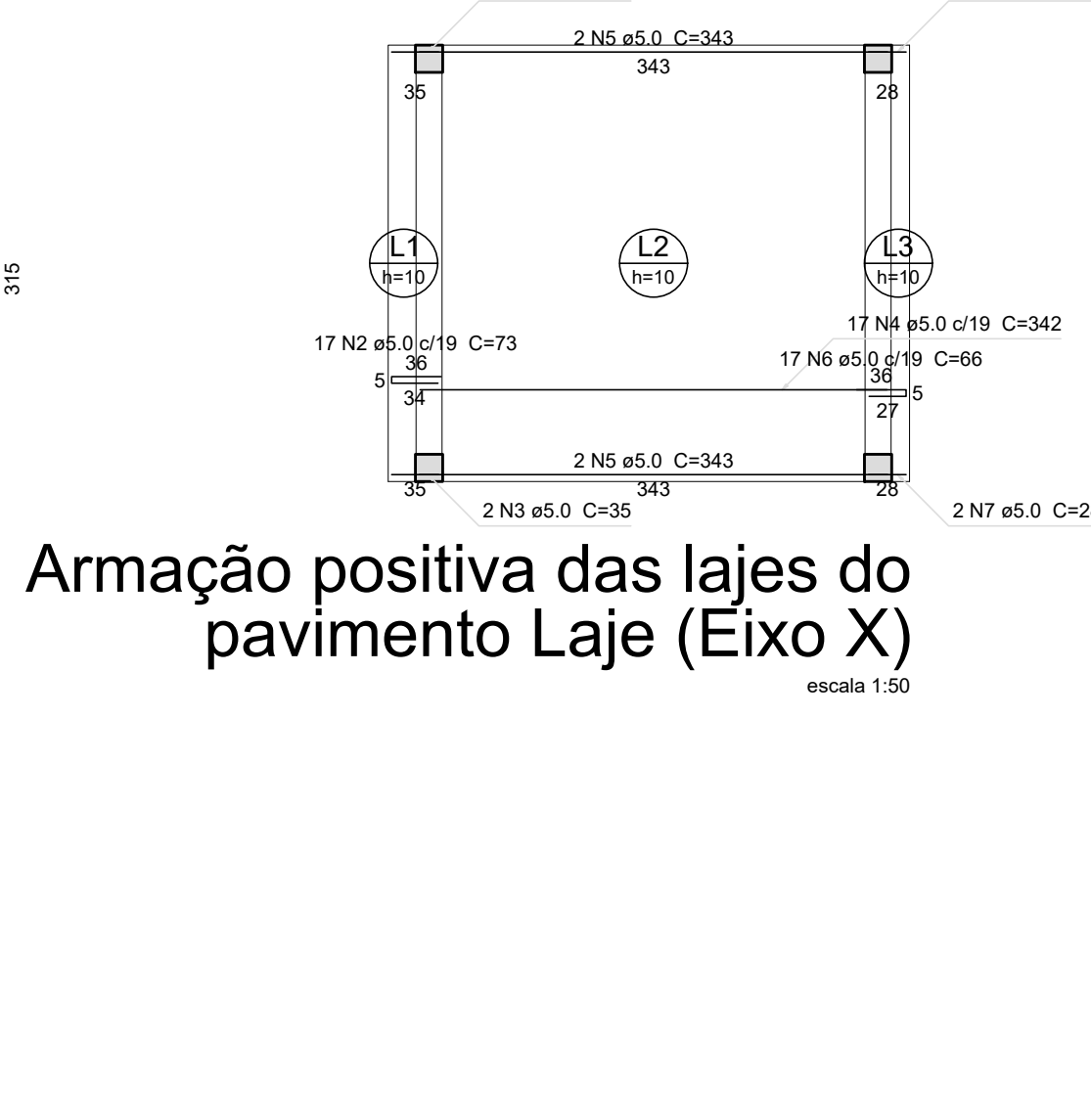
Forma do pavimento Intermediário



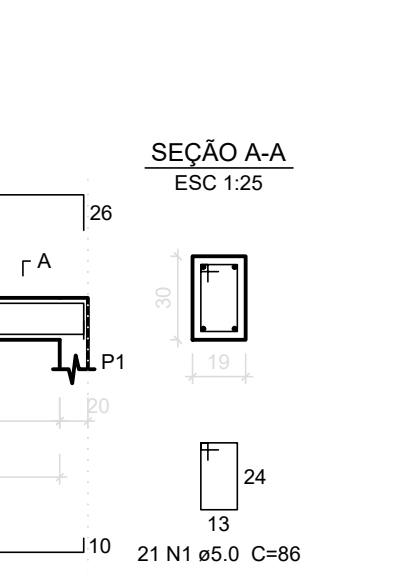
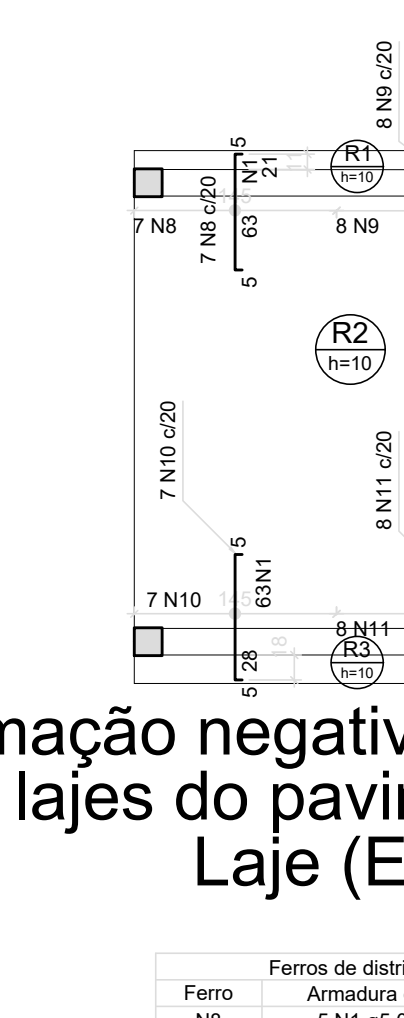
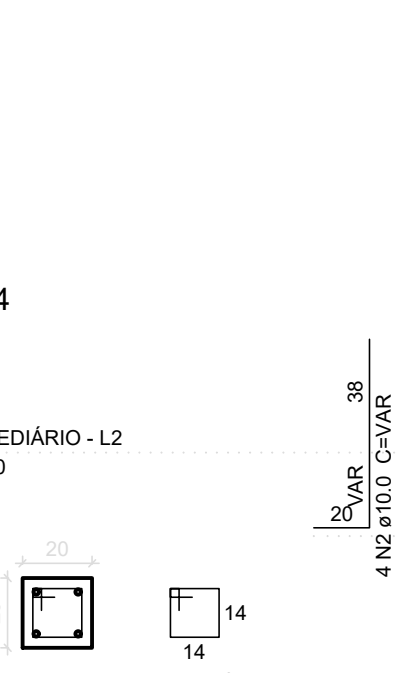
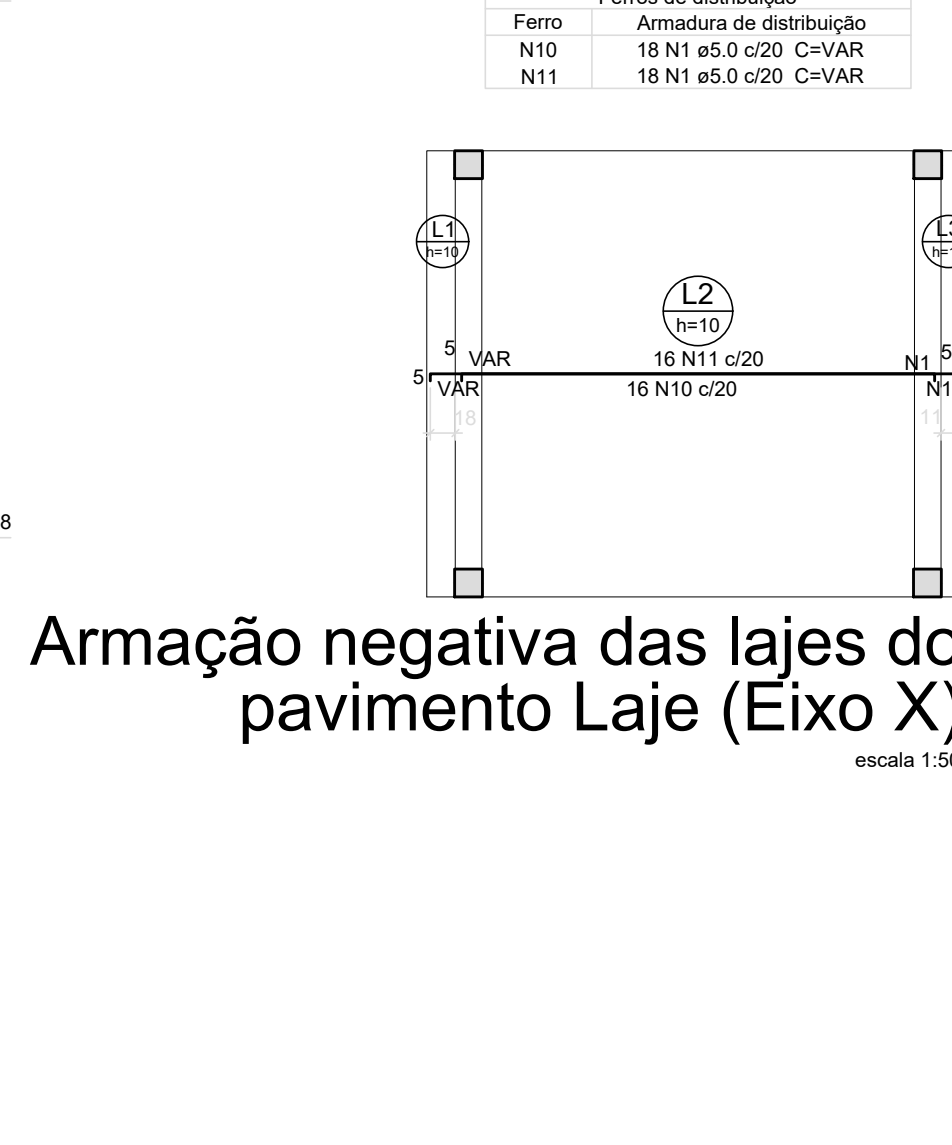
Forma do pavimento Intermediário



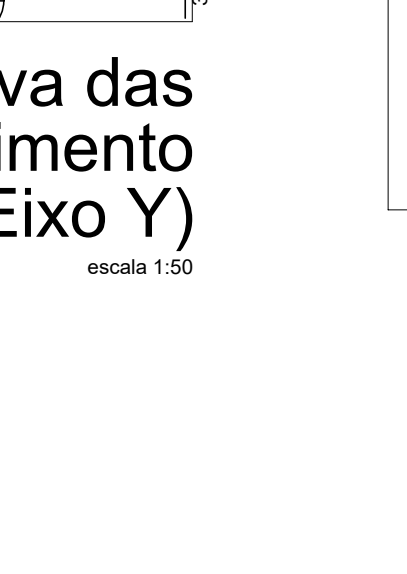
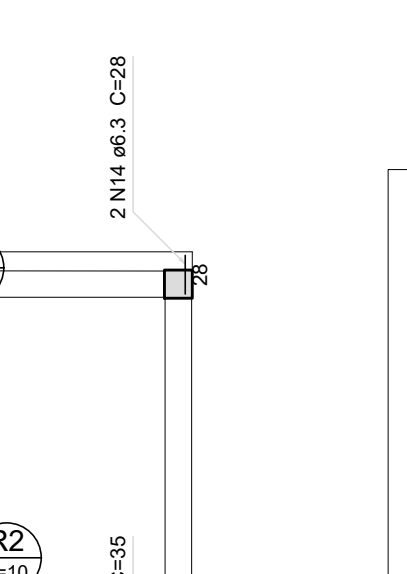
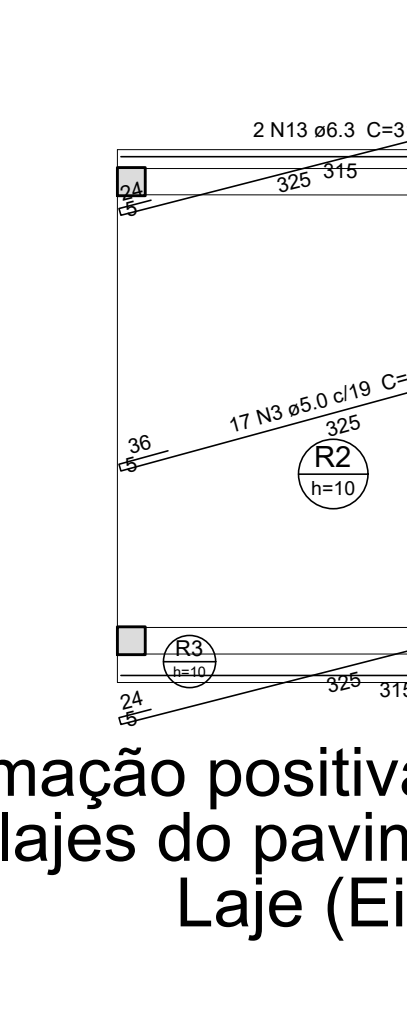
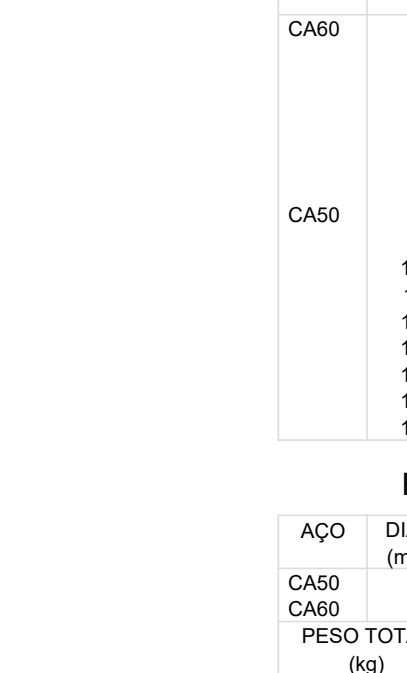
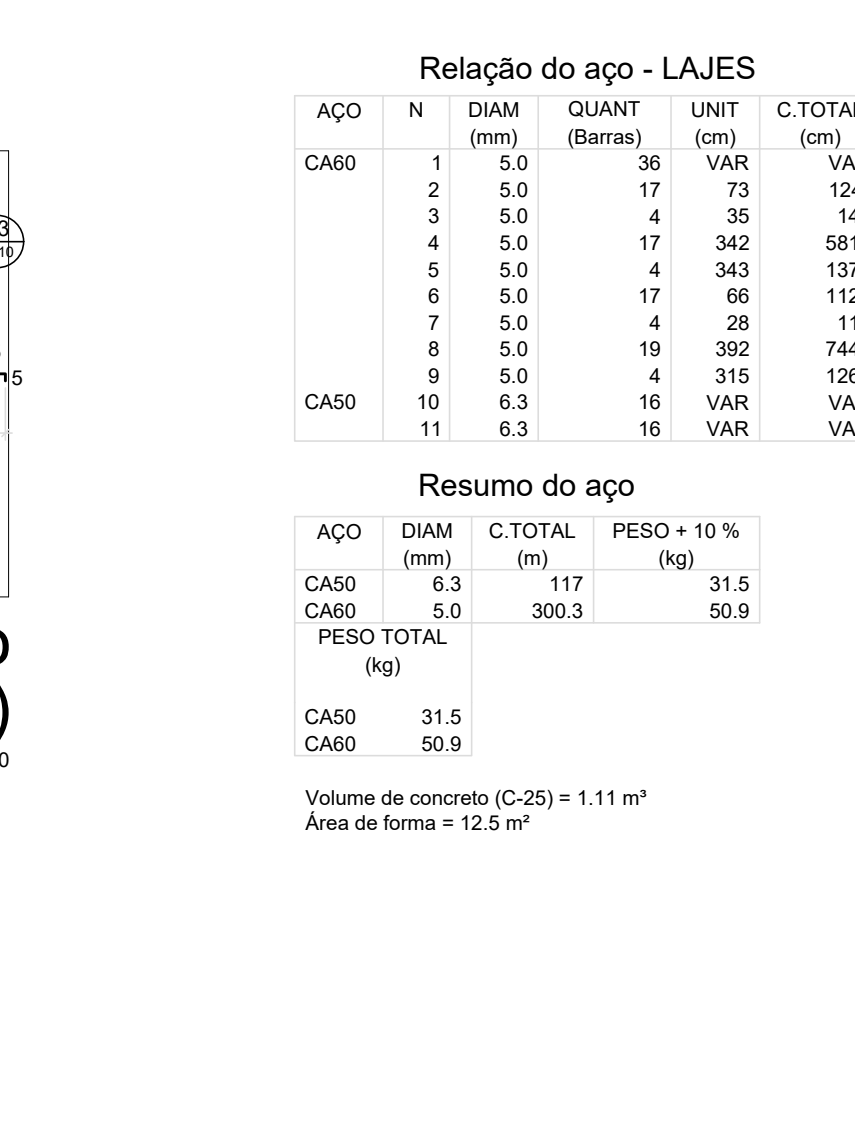
Forma do pavimento Intermediário



Forma do pavimento Intermediário



Forma do pavimento Intermediário



Forma do pavimento Intermediário

QUANTITATIVO PASSARELA TIPO 1 - 1 UNIDADE

Relação do aço - LAJES						Resumo do aço - ESTACAS						Relação do aço - BLOCOS DE COROAMENTO					
AÇO	N	DIAM (mm)	QUANT (Barra)	UNIT (unidade)	C.TOTAL (cm)	AÇO	DIAM (mm)	C.TOTAL (cm)	PESO + 10% (kg)		AÇO	N	DIAM (mm)	QUANT (Barra)	UNIT (unidade)	C.TOTAL (cm)	PESO + 10% (kg)
CA80	1	5.0	36	VAR	VAR	CA80	5.0	10	32.6		CA80 <td>1</td> <td>5.0</td> <td>8</td> <td>182</td> <td></td> <td></td>	1	5.0	8	182		
	2	5.0	17	73	1241	CA80	5.0	80	12.3		CA80	2	5.0	24	188		
	3	5.0	4	35	140												
	4	5.0	17	342	5814												
	5	5.0	4	343	1372												
	6	5.0	17	66	1122												
CA80	7	5.0	4	28	112						CA80	DIAM (mm) <td>C.TOTAL (cm)<td>PESO + 10% (kg)<td></td><td></td><td></td></td></td>	C.TOTAL (cm) <td>PESO + 10% (kg)<td></td><td></td><td></td></td>	PESO + 10% (kg) <td></td> <td></td> <td></td>			
	8	5.0	19	362	7448						CA80	5.0	110	59.7	15.1		
	9	5.0	4	315	1200												
	10	6.3	16	VAR	VAR												
	11	6.3	16	VAR	VAR												
Resumo do aço						Relação do aço - VIGAS BALDRAMES						Resumo do aço					
AÇO	DIAM (mm)	C.TOTAL (cm)	PESO + 10% (kg)			AÇO <td>N<td>DIAM (mm)<td>QUANT (Barra)<td>UNIT (unidade)</td><td>C.TOTAL (cm)</td><td></td><td>AÇO<td>DIAM (mm)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td><td></td></td></td></td></td></td>	N <td>DIAM (mm)<td>QUANT (Barra)<td>UNIT (unidade)</td><td>C.TOTAL (cm)</td><td></td><td>AÇO<td>DIAM (mm)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td><td></td></td></td></td></td>	DIAM (mm) <td>QUANT (Barra)<td>UNIT (unidade)</td><td>C.TOTAL (cm)</td><td></td><td>AÇO<td>DIAM (mm)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td><td></td></td></td></td>	QUANT (Barra) <td>UNIT (unidade)</td> <td>C.TOTAL (cm)</td> <td></td> <td>AÇO<td>DIAM (mm)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td><td></td></td></td>	UNIT (unidade)	C.TOTAL (cm)		AÇO <td>DIAM (mm)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td><td></td></td>	DIAM (mm) <td>C.TOTAL (cm)</td> <td>PESO + 10% (kg)</td> <td></td>	C.TOTAL (cm)	PESO + 10% (kg)	
CA80	5.0	117	31.5			CA80	1	5.0	134	60	8844		CA80	5.0	117	31.5	
CA80	5.0	300.3	50.9			CA80	2	5.0	4	330	1436		CA80	5.0	300.3	50.9	
CA80	5.0					CA80	3	5.0	4	390	1660		CA80	5.0			
CA80	5.0					CA80	4	5.0	4	314	1226		CA80	5.0			
CA80	5.0					CA80	5	5.0	4	330	1320		CA80	5.0			
Volume de concreto (C-25) = 1.12 m³						Resumo do aço						Relação do aço - PILARES DE ARRANQUE					
Área de forma = 12.5 m²						AÇO <td>DIAM (mm)<td>C.TOTAL (cm)<td>PESO + 10% (kg)</td><td></td><td></td><td>AÇO<td>N<td>DIAM (mm)<td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td></td></td></td></td></td>	DIAM (mm) <td>C.TOTAL (cm)<td>PESO + 10% (kg)</td><td></td><td></td><td>AÇO<td>N<td>DIAM (mm)<td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td></td></td></td></td>	C.TOTAL (cm) <td>PESO + 10% (kg)</td> <td></td> <td></td> <td>AÇO<td>N<td>DIAM (mm)<td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td></td></td></td>	PESO + 10% (kg)			AÇO <td>N<td>DIAM (mm)<td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td></td></td>	N <td>DIAM (mm)<td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td></td>	DIAM (mm) <td>QUANT (unidade)<td>C.TOTAL (cm)</td><td>PESO + 10% (kg)</td></td>	QUANT (unidade) <td>C.TOTAL (cm)</td> <td>PESO + 10% (kg)</td>	C.TOTAL (cm)	PESO + 10% (kg)
						CA80	1	5.0	38.6	24.2		CA80	1	5.0	12	66	
						CA80	2	5.0	88.5	15		CA80	2	5.0	16	88	
						CA80	3	5.0	88.5	15		CA80	3	5.0	16	88	
						CA80	4	5.0	88.5	15		CA80	4	5.0	16	88	
						CA80	5	5.0	88.5	15		CA80	5	5.0	16	88	
						CA80	6	5.0	88.5	15		CA80	6	5.0	16	88	
						CA80	7	5.0	88.5	15		CA80	7	5.0	16	88	
						CA80	8	5.0	88.5	15		CA80	8	5.0	16	88	
						CA80	9	5.0	88.5	15		CA80	9	5.0	16	88	
						CA80	10	5.0	88.5	15		CA80	10	5.0	16	88	
						CA80	11	5.0	88.5	15		CA80	11	5.0	16	88	
						CA80	12	5.0	88.5	15		CA80	12	5.0	16	88	
						CA80	13	5.0	88.5	15		CA80	13	5.0	16	88	
						CA80	14	5.0	88.5	15		CA80	14	5.0	16	88	
						CA80	15	5.0	88.5	15		CA80	15	5.0	16	88	
						CA80	16	5.0	88.5	15		CA80	16	5.0	16	88	
						CA80	17	5.0	88.5	15		CA80	17	5.0	16	88	
						CA80	18	5.0	88.5	15		CA80	18	5.0	16	88	
						CA80	19	5.0	88.5	15		CA80	19	5.0	16	88	
						CA80	20	5.0	88.5	15		CA80	20	5.0	16	88	
						CA80	21	5.0	88.5	15		CA80	21	5.0	16	88	
						CA80	22	5.0	88.5	15		CA80	22	5.0	16	88	
						CA80	23	5.0	88.5	15		CA80	23	5.0	16	88	
						CA80	24	5.0	88.5	15		CA80	24	5.0	16	88	
						CA80	25	5.0	88.5	15		CA80	25	5.0	16	88	
						CA80	26	5.0	88.5	15		CA80	26	5.0	16	88	
						CA80	27	5.0	88.5	15		CA80	27	5.0	16	88	
						CA80	28	5.0	88.5	15		CA80	28	5.0	16	88	
						CA80	29	5.0	88.5	15		CA80	29	5.0	16	88	
						CA80	30	5.0	88.5	15		CA80	30	5.0	16	88	
						CA80	31	5.0	88.5	15		CA80	31	5.0	16	88	
						CA80	32	5.0	88.5	15		CA80	32	5.0	16	88	
						CA80	33	5.0	88.5	15		CA80	33	5.0	16	88	
						CA80	34	5.0	88.5	15		CA80	34	5.0	16	88	
						CA80	35	5.0	88.5	15		CA80	35	5.0	16	88	
						CA80	36	5.0	88.5	15		CA80	36	5.0	16	88	
						CA80	37	5.0	88.5	15		CA80	37	5.0	16	88	
						CA80	38	5.0	88.5	15		CA80	38	5.0	16	88	
						CA80	39	5.0	88.5	15		CA80	39	5.0	16	88	
						CA80	40	5.0	88.5	15		CA80	40	5.0	16	88	
						CA80	41	5.0	88.5	15		CA80	41	5.0	16	88	
						CA80	42	5.0	88.5	15		CA80	42	5.0	16	88	
						CA80	43	5.0	88.5	15		CA80	43	5.0	16	88	
						CA80	44	5.0	88.5	15		CA80	44	5.0	16	88	
						CA80	45	5.0	88.5	15		CA80	45	5.0	16	88	
						CA80	46	5.0	88.5	15		CA80	46	5.0	16	88	
						CA80	47	5.0	88.5	15		CA80	47	5.0	16	88	
						CA80	48	5.0	88.5	15		CA80	48	5.0	16	88	
						CA80	49	5.0	88.5	15		CA80	49	5.0	16	88	
						CA80	50	5.0	88.5	15		CA80	50	5.0	16	88	
						CA80	51	5.0	88.5	15		CA80	51	5.0	16	88	
						CA80	52	5.0	88.5	15		CA80	52	5.0	16	88	
						CA80	53	5.0	88.5	15		CA80	53	5.0	16	88	
						CA80	54	5.0	88.5	15		CA80	54	5.0	16	88	
						CA80	55	5.0	88.5	15		CA80	55	5.0	16	88	
						CA80	56	5.0	88.5	15		CA80	56	5.0	16	88	
						CA80	57	5.0	88.5	15		CA80	57	5.0	16	88	
						CA80	58	5.0	88.5	15		CA80	58	5.0	16	88	
						CA80	59	5.0	88.5	15		CA80	59	5.0	16	88	
						CA80	60	5.0	88.5	15		CA80	60	5.0	16	88	
						CA80	61	5.0	88.5	15		CA80	61	5.0	16	88	
						CA80	62	5.0	88.5	15		CA80	62	5.0	16	88	
						CA80	63	5.0	88.5	15		CA80	63	5.0	16	88	
						CA80	64	5.0	88.5	15		CA80	64	5.0	16	88	
						CA80	65	5.0	88.5	15		CA80	65	5.0	16	88	
						CA80	66	5.0	88.5	15		CA80	66	5.0	16	88	
						CA80	67	5.0	88.5	15		CA80	67	5.0	16	88	
						CA80	68	5.0	88.5	15		CA80	68	5.0	16	88	
						CA80	69	5.0	88.5	15		CA80	69	5.0	16	88	
						CA80	70	5.0	88.5	15		CA80	70	5.0	16	88	
						CA80	71	5.0	88.5	15		CA80	71	5.0	16	88	
						CA80	72	5.0	88.5	15		CA80	72	5.0	16	88	
						CA80	73	5.0	88.5	15		CA80	73	5.0	16	88	
						CA80	74	5.0	88.5	15		CA80	74	5.0	16	88	
						CA80	75	5.0	88.5	15		CA80	75	5.0	16	88	
						CA80	76	5.0	88.5	15		CA80	76	5.0	16	88	
						CA80	77	5.0	88.5	15		CA80	77	5.0	16	88	
						CA80	78	5.0	88.5	15		CA80	78	5.0	16	88	
						CA80	79	5.0	88.5	15		CA80	79	5.0	16	88	
						CA80	80	5.0	88.5	15		CA80	80	5.0	16	88	
						CA80	81	5.0	88.5	15		CA80	81	5.0	16	88	
						CA80	82	5.0	88.5	15		CA80	82	5.0	16	88	
						CA80	83	5.0	88.5	15		CA80	83	5.0	16	88	
						CA80	84	5.0	88.5	15		CA80	84	5.0	16	88	
						CA80	85	5.0	88.5	15		CA80	85	5.0	16	88	
						CA80	86	5.0	88.5	15		CA80	86	5.0	16	88	
						CA80	87	5.0	88.5	15		CA80	87	5.0	16	88	
						CA80	88	5.0	88.5	15		CA80	88	5.0	16	88	
						CA80	89	5.0	88.5	15		CA80	89	5.0	16	88	
						CA80	90	5.0	88.5	15		CA80	90	5.0	16	88	
						CA80	91	5.0	88.5	15		CA80	91	5.0	16	88	
						CA80	92	5.0	88.5	15		CA80	92	5.0	16	88	
						CA80	93	5.0	88.5	15		CA80	93	5.0	16	88	
						CA80	94	5.0	88.5	15		CA80	94	5.0	16	88	
						CA80	95	5.0	88.5	15		CA80	95	5.0	16	88	
						CA80	96	5.0	88.5	15		CA80	96	5.0	16	88	
						CA80	97	5.0	88.5	15		CA80	97	5.0	16	88	
						CA80	98	5.0	88.5	15		CA80	98	5.0	16	88	
						CA80	99	5.0	88.5	15		CA80	99	5.0	16	88	
						CA80	100	5.0	88.5	15		CA80	100	5.0	16	88	
						CA80	101	5.0	88.5	15		CA80	101	5.0	16	88	
						CA80	102	5.0	88.5	15		CA80	102	5.0	16	88	
						CA80	103	5.0	88.5	15		CA80	103	5.0	16	88	
						CA80	104	5.0	88.5	15		CA80	104	5.0	16	88	
						CA80	105	5.0	88.5	15		CA80	105	5.0	16	88	
						CA80	106	5.0	88.5	15							