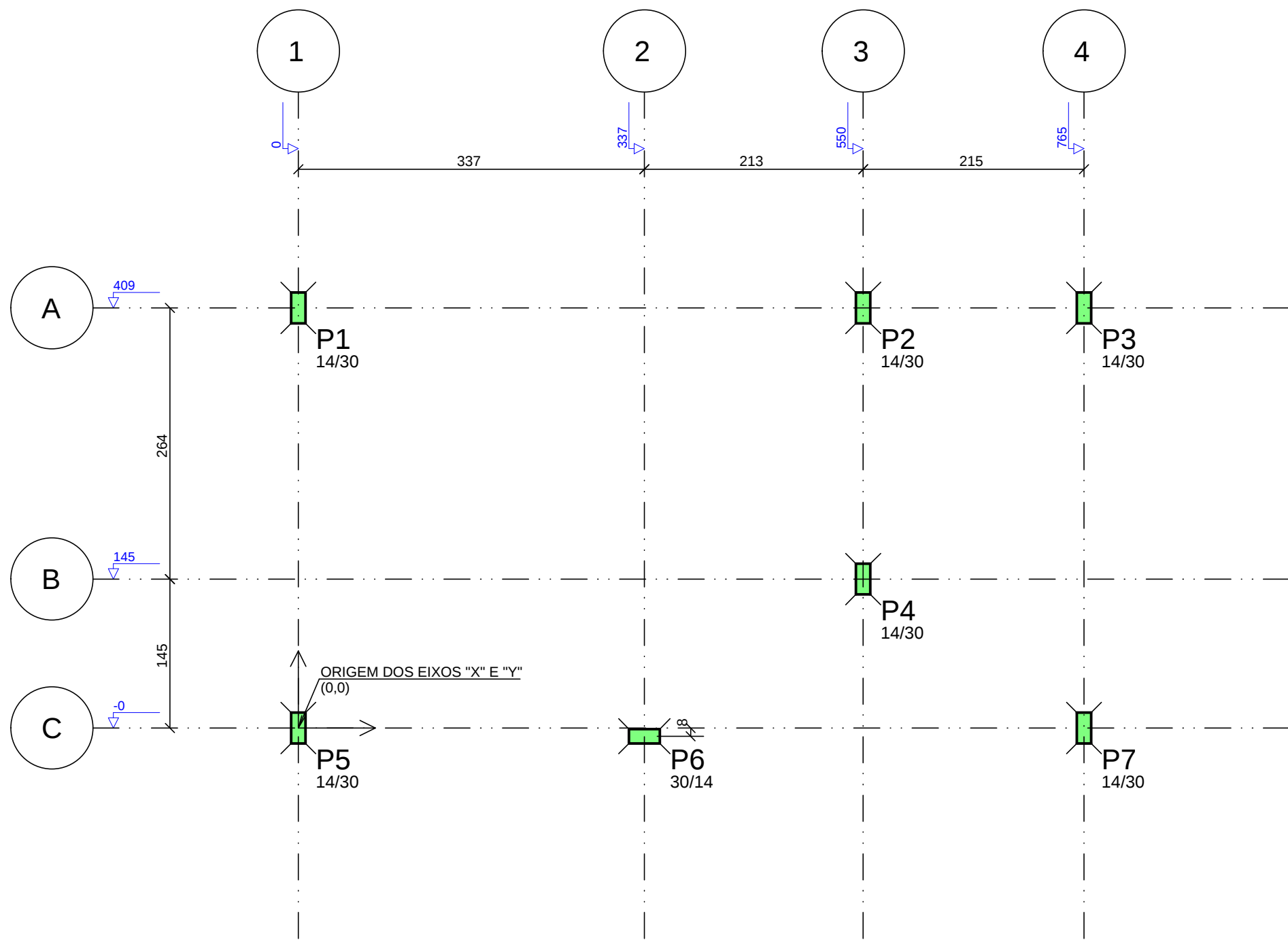


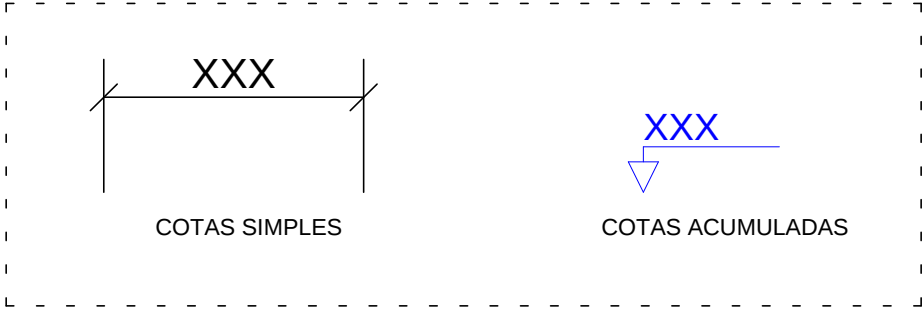
LOCALIZAÇÃO E CARGAS DOS PILARES NA FUNDAÇÃO

ESC.: 1:50 - MEDIDAS EM cm



CONVENIÊNCIA DAS COTAS PARA A LOCALIZAÇÃO

SEM ESCALA



Baricentros de pilares			
Pilar	X cm	Pilar	Y cm
P1	0.0	P6	-8.0
P5	0.0	P5	0.0
P6	337.0	P7	0.0
P4	550.0	P4	145.0
P2	550.0	P2	409.0
P3	765.0	P1	409.0
P7	765.0	P3	409.0

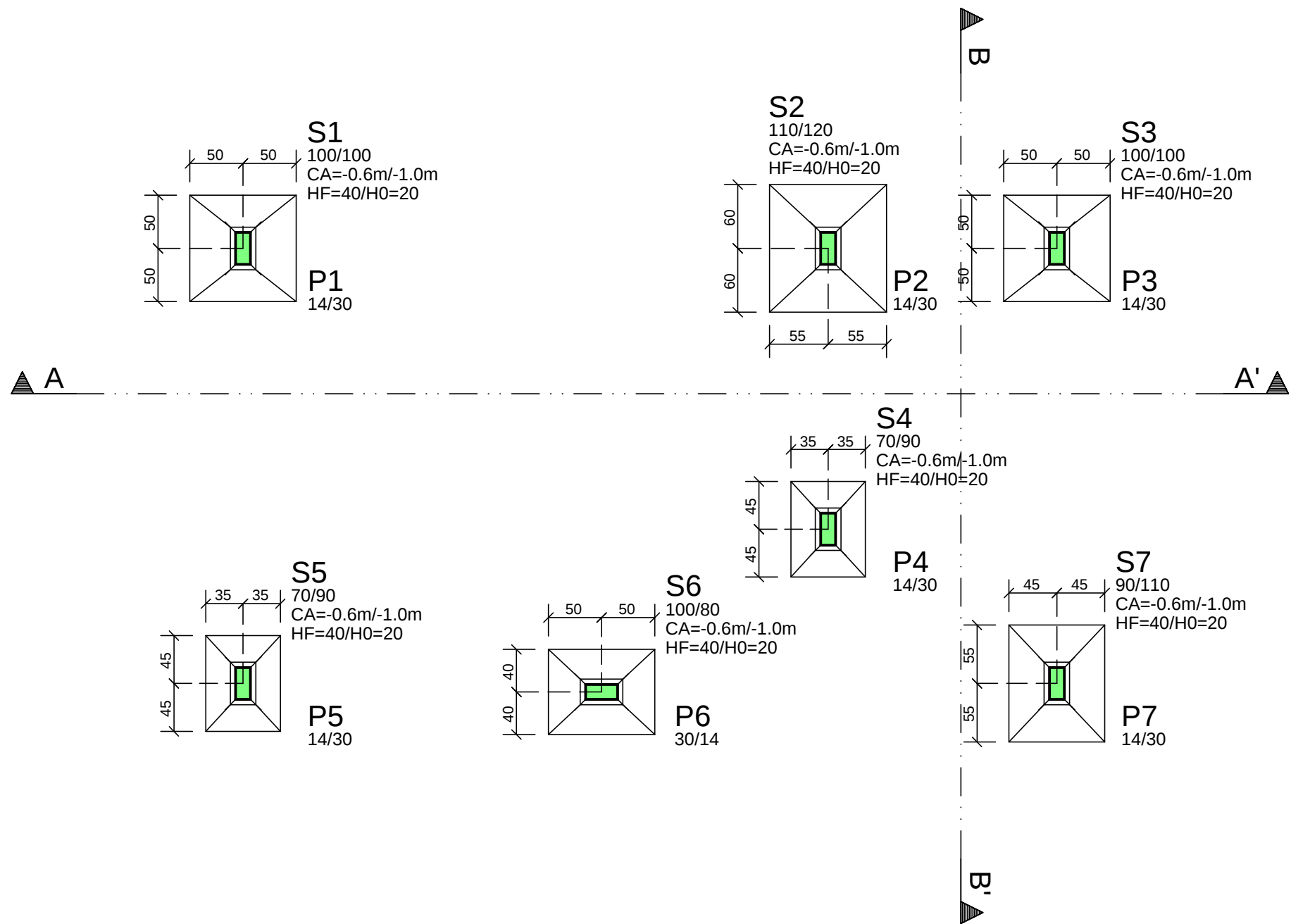
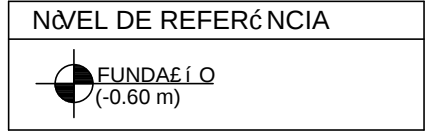
Elem	FZ MAX-ELU2-Verificações de estado limite último - Pilares e fundações			Elem	MX MAX-ELU2-Verificações de estado limite último - Pilares e fundações		
	Fz tf	Mx tfm	My tfm		Fz tf	Mx tfm	My tfm
P1	6.12	-0.34	-0.19	P1	5.77	0.05	-0.18
P2	10.31	-0.29	0.38	P2	9.44	0.18	0.38
P3	4.68	0.02	0.19	P3	4.05	0.27	0.09
P4	6.28	0.06	0.05	P4	6.12	0.22	0.06
P5	4.18	0.02	-0.16	P5	4.05	0.17	-0.04
P6	6.78	-0.30	0.27	P6	6.59	-0.20	-0.01
P7	5.48	0.13	0.28	P7	5.29	0.39	0.17
Soma	43.82	-0.69	0.82	Soma	41.31	1.08	0.46
Elem	MY MAX-ELU2-Verificações de estado limite último - Pilares e fundações			Elem	FZ MIN-ELU2-Verificações de estado limite último - Pilares e fundações		
	Fz tf	Mx tfm	My tfm		Fz tf	Mx tfm	My tfm
P1	5.80	-0.29	-0.09	P1	5.77	0.05	-0.18
P2	9.56	-0.10	0.50	P2	9.35	0.13	0.38
P3	4.65	0.00	0.20	P3	3.88	-0.13	-0.03
P4	5.46	-0.05	0.21	P4	5.34	-0.36	0.07
P5	3.68	-0.17	0.08	P5	3.68	-0.17	0.08
P6	6.63	-0.31	0.47	P6	6.52	-0.30	-0.40
P7	5.41	0.14	0.29	P7	4.66	0.01	0.05
Soma	41.28	-0.78	1.67	Soma	39.20	-0.76	-0.03
Elem	MX MIN-ELU2-Verificações de estado limite último - Pilares e fundações			Elem	MY MIN-ELU2-Verificações de estado limite último - Pilares e fundações		
	Fz tf	Mx tfm	My tfm		Fz tf	Mx tfm	My tfm
P1	6.03	-0.43	-0.19	P1	5.90	-0.08	-0.29
P2	10.17	-0.45	0.37	P2	10.05	-0.18	0.25
P3	4.52	-0.37	0.08	P3	3.92	-0.11	-0.03
P4	5.48	-0.41	0.05	P4	6.14	-0.13	-0.10
P5	3.81	-0.32	-0.04	P5	4.18	0.02	-0.16
P6	6.56	-0.41	0.05	P6	6.52	-0.29	-0.43
P7	4.84	-0.25	0.17	P7	4.72	0.00	0.05
Soma	41.40	-2.63	0.49	Soma	41.43	-0.77	-0.71

- Observações:
- Os valores apresentados referem-se às reais nos apoios
 - Estão os com valores característicos
 - For as em tf
 - Momentos em tf.m
 - Sistema de coordenadas GLOBAL
 - As cargas representadas próximas aos desenhos dos pilares referem-se às cargas sem a consideração do vento

Tabela de Quantitativos							
Pavimento	Concreto (m³)				Formas (m²)		
	Pilares	Vigas	Lajes	Fundações	Pilares	Vigas	Lajes
Coberta 2	0.49	0.43	0.77	0.00	10.28	6.44	7.72
Coberta 1	0.96	1.30	2.78	0.00	20.02	18.37	27.78
Tubo	0.18	1.29	0.00	0.00	3.70	22.66	0.00
Fundações	0.00	0.00	0.00	1.88	0.00	0.00	0.00
TOTAL	1.63	3.02	3.55	1.88	23.72	30.47	5.32

FORMA DO PAVIMENTO FUNDAÇÃO

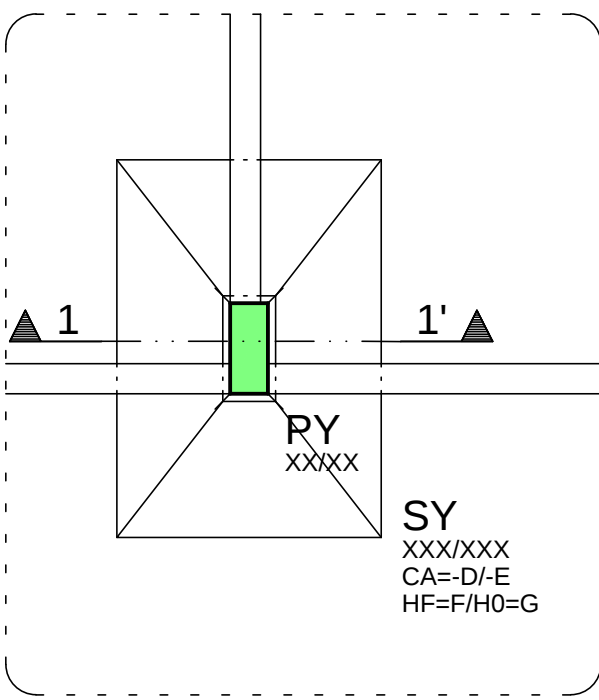
ESC.: 1:50 - MEDIDAS EM cm



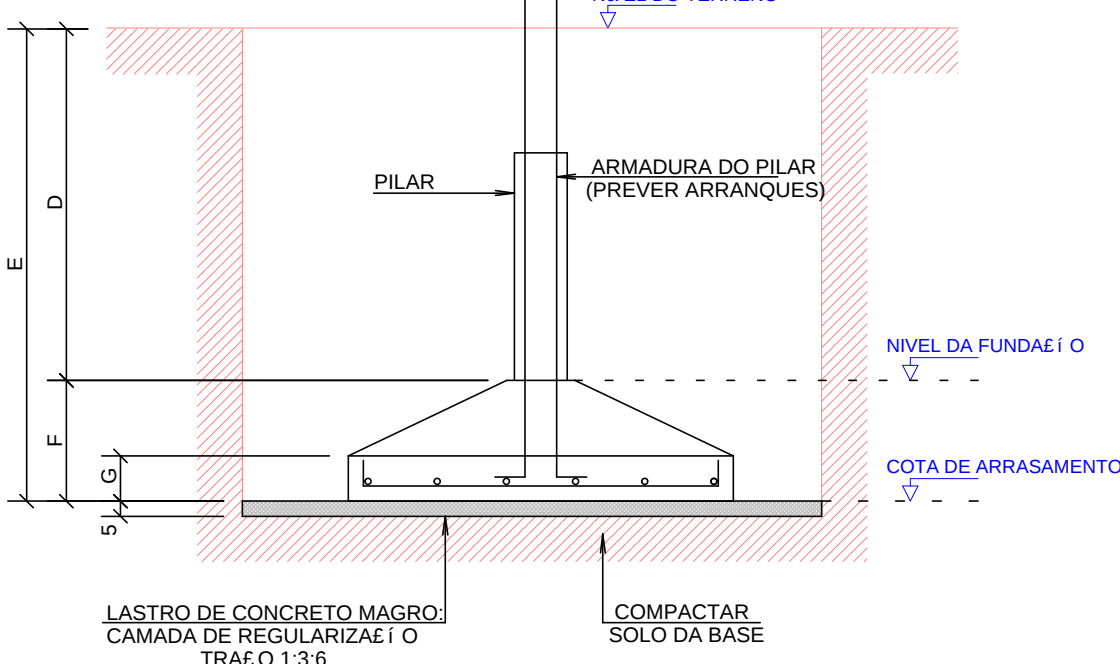
DETALHE GERAL - SAPATAS

SEM ESCALA

PLANTA BAIXA DA SAPATA COM A VIGA BALDRAME



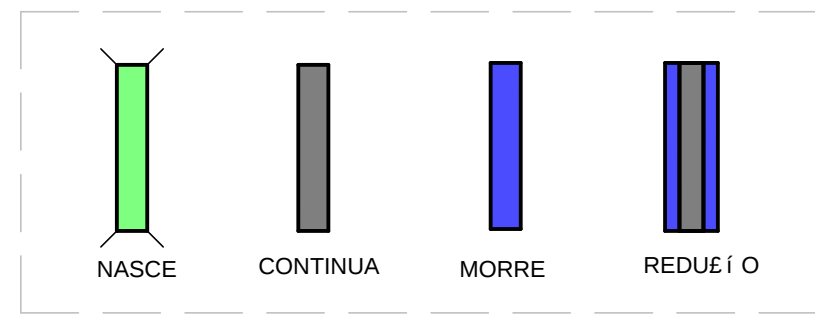
CORTE 1 - 1'



OBS.: D = DIFERENÇA DE NÍVEL ENTRE O TOPO DA SAPATA E O PISO EXISTENTE
E = DIFERENÇA DE NÍVEL ENTRE O FUNDO DA SAPATA E O PISO EXISTENTE
CA = COTA DE ARRASAMENTO

LEGENDA DE FORMAS DOS PILARES

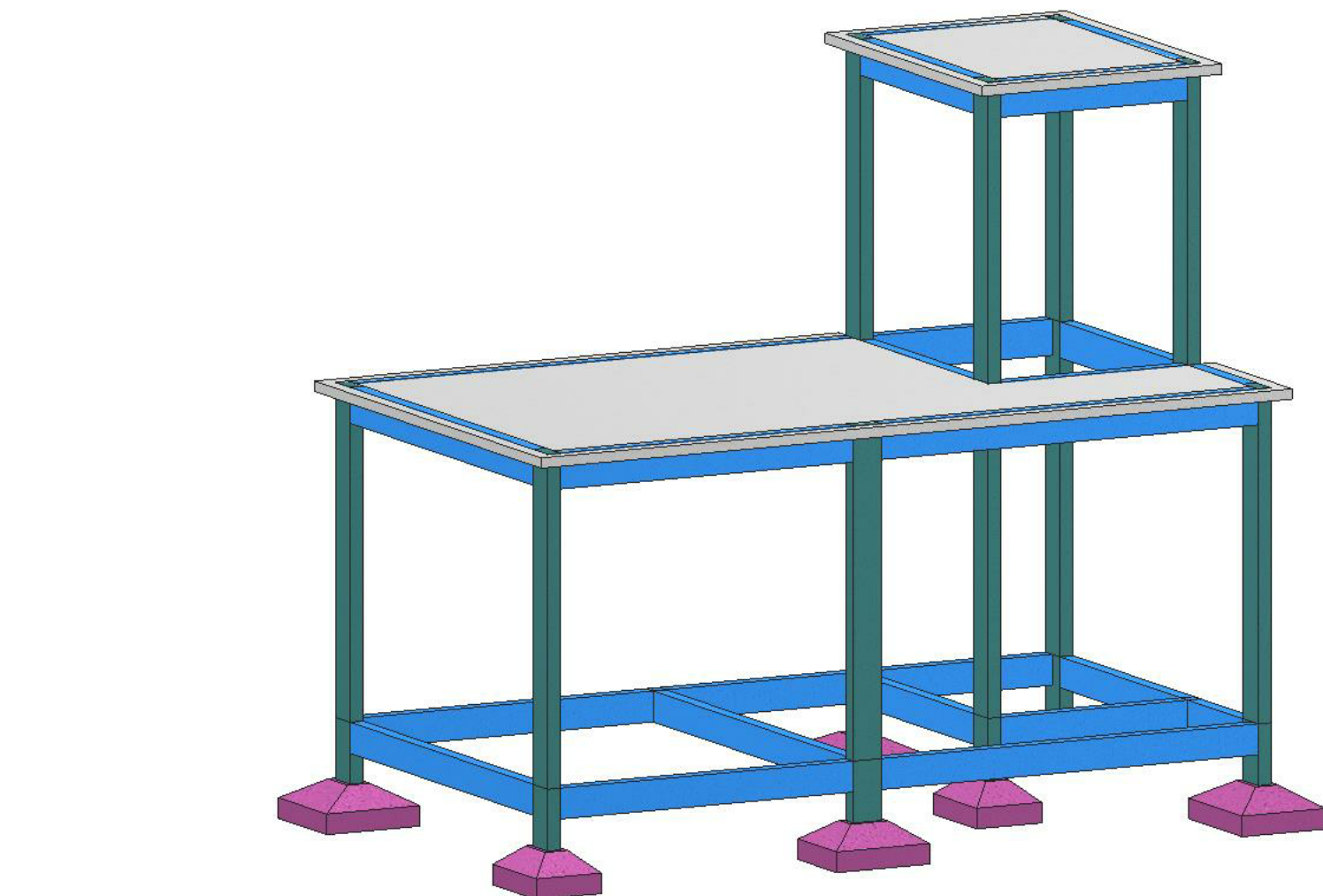
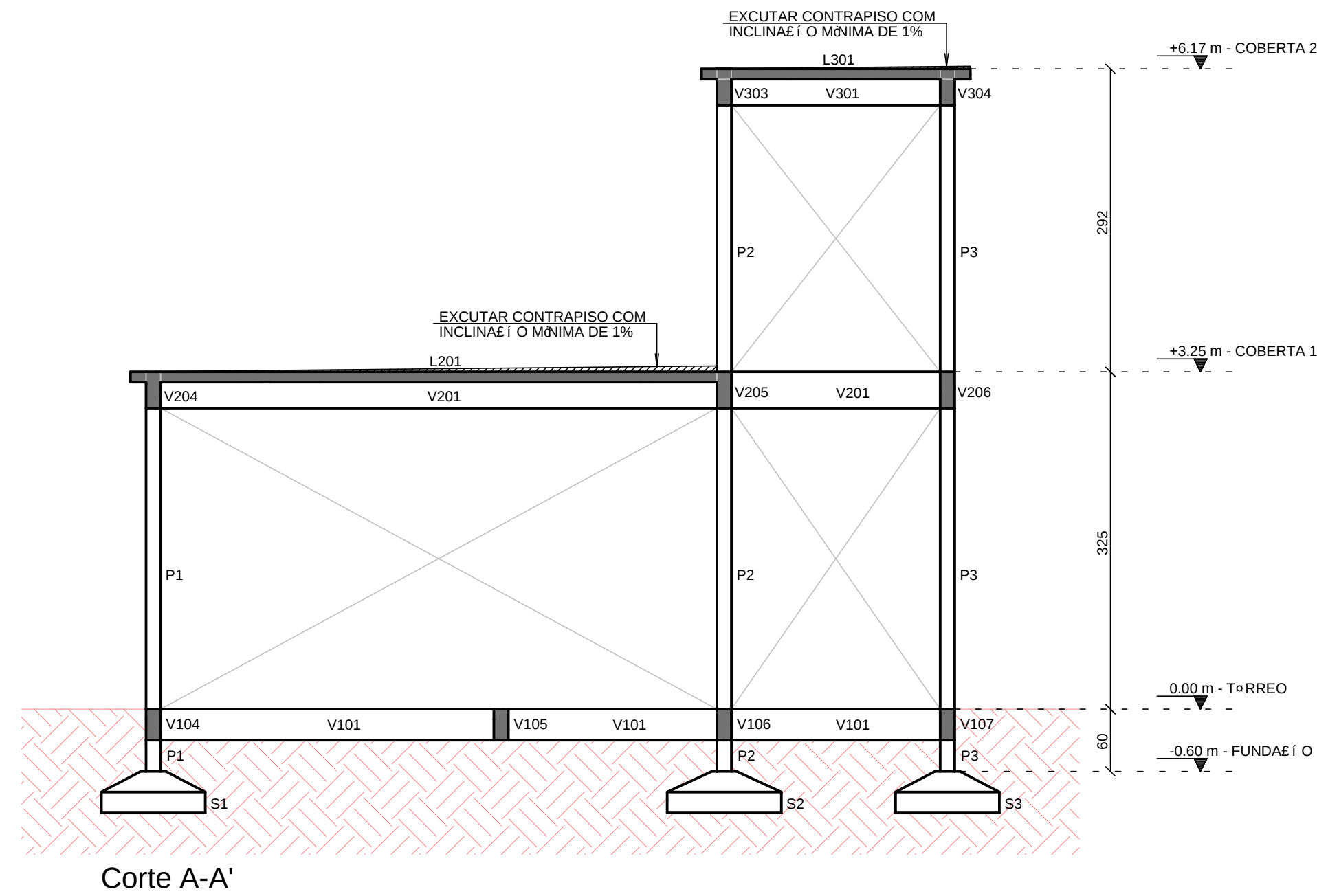
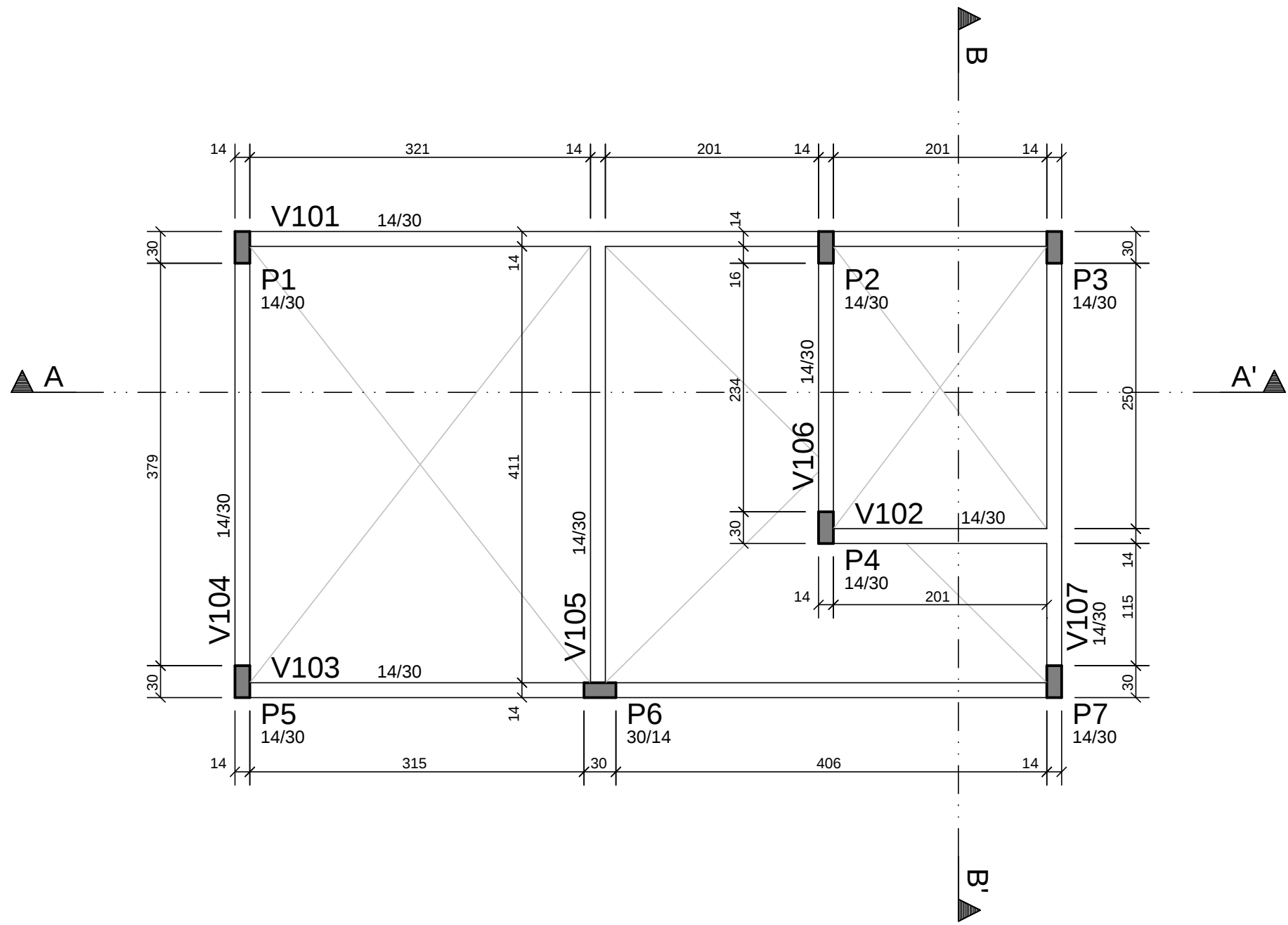
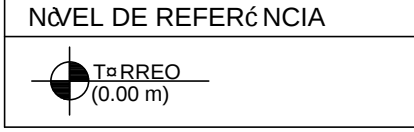
SEM ESCALA



CODEVASF		MINISTÉRIO DA INTEGRAÇÃO E DO DESENVOLVIMENTO REGIONAL COMPANHIA DE DESENVOLVIMENTO DOS VALES DO SIO FRANCISCO E DO PARNABA SUPERINTENDÊNCIA REGIONAL	
PERÍMETRO PÚBLICO IRRIGADO DO BOACICA PROJETO SUBESTÁGIO ABRIGADA 750kVA DA EB-ASPERSIO (E-B-A2)			
PROJETO ESTRUTURAL LOCALIZAÇÃO DOS PILARES E FORMA DA FUNDAÇÃO			
PROJETO: JOIO PAULO LEIO LESSA	CREA: 021818625-8	ASSINATURA: 	
ESCALA: 1:50	ARQUIVO: EST.SUBESTÁGIO A 01/6.DWG	PRANCHA: 01/06	
DATA: ABRIL / 2023	FOLHA: A1		

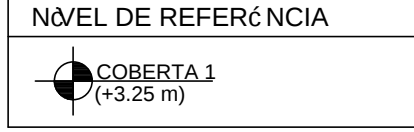
FORMA DO T^o RREO

ESC.: 1:50 - MEDIDAS EM cm

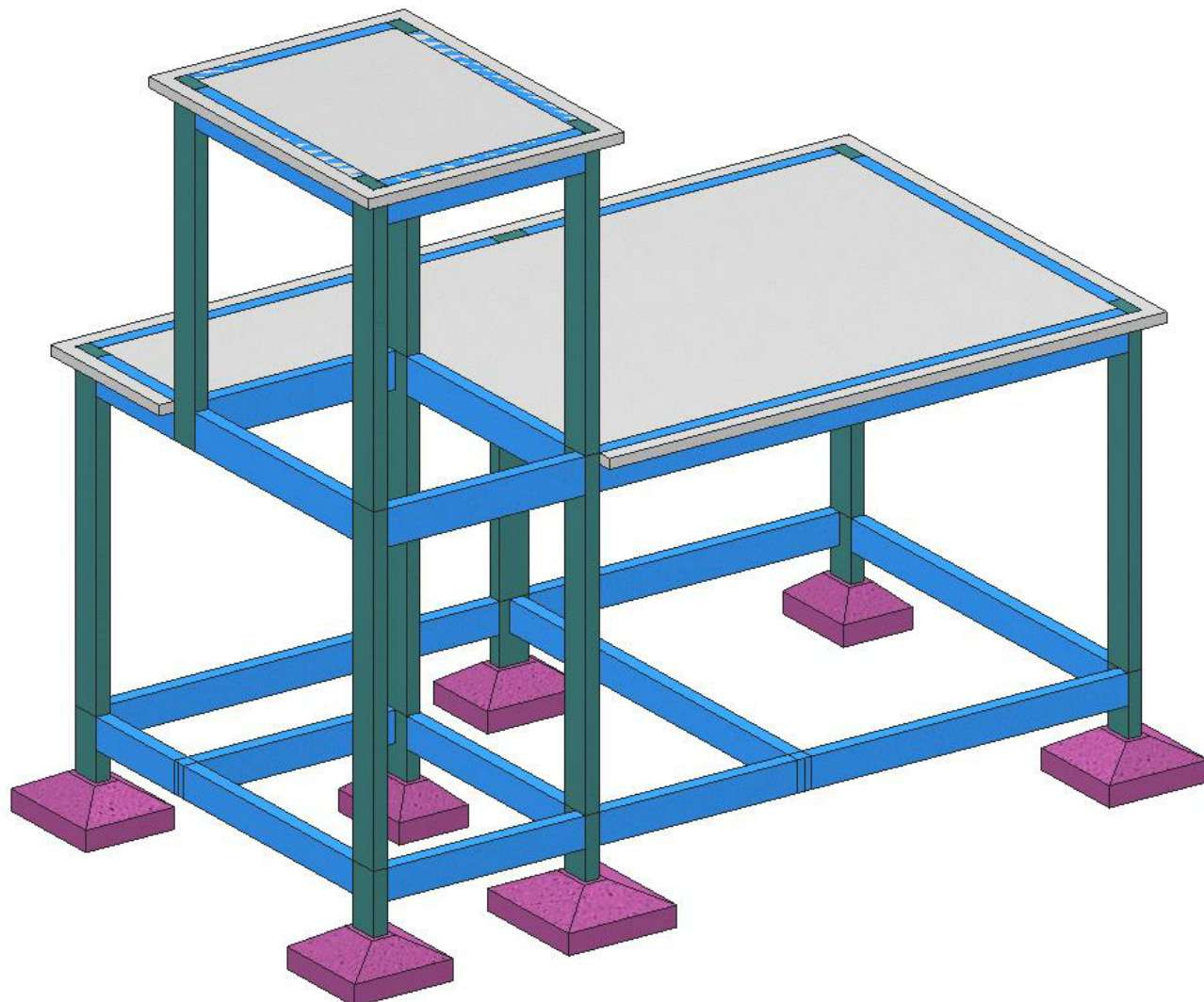
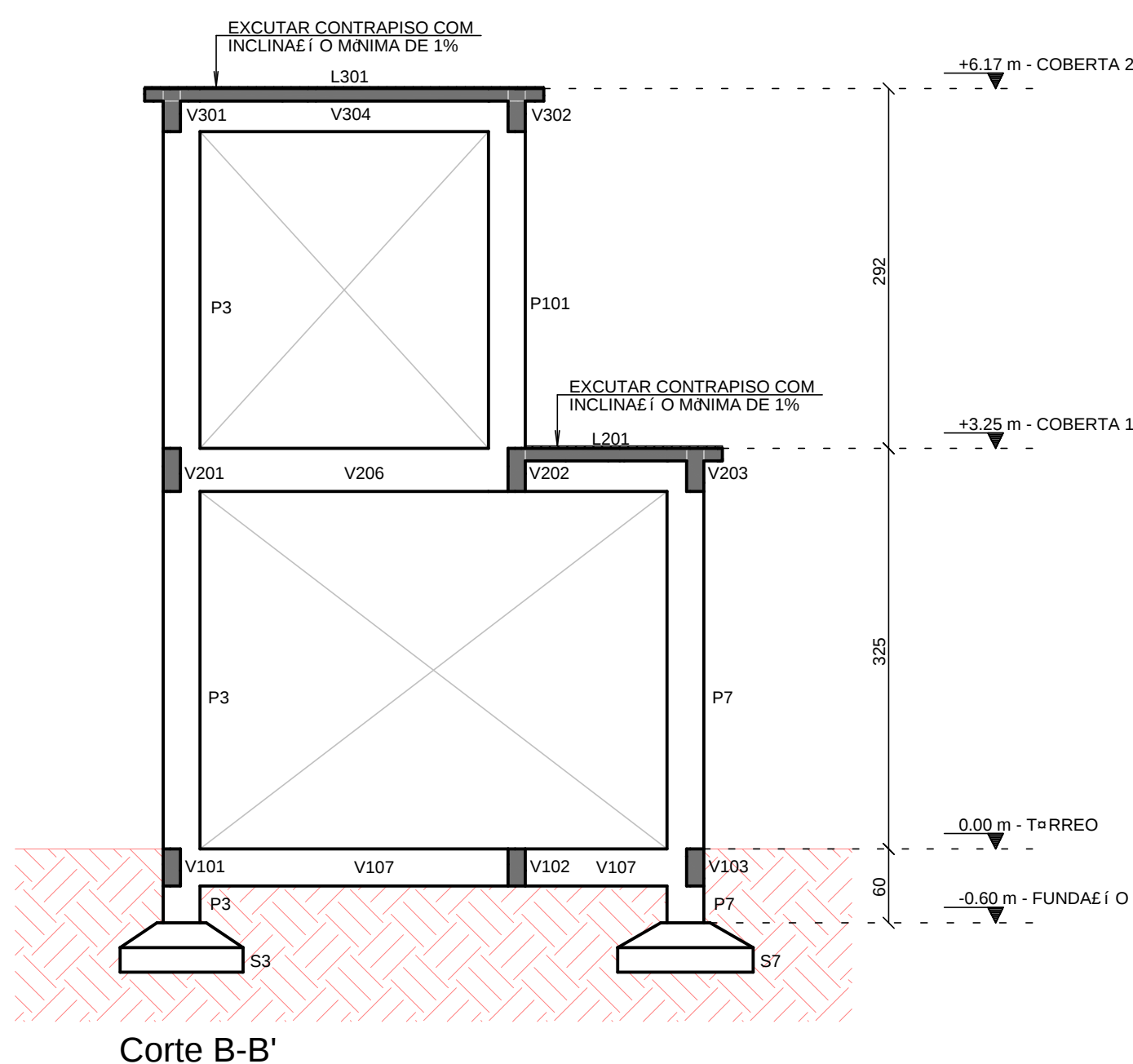
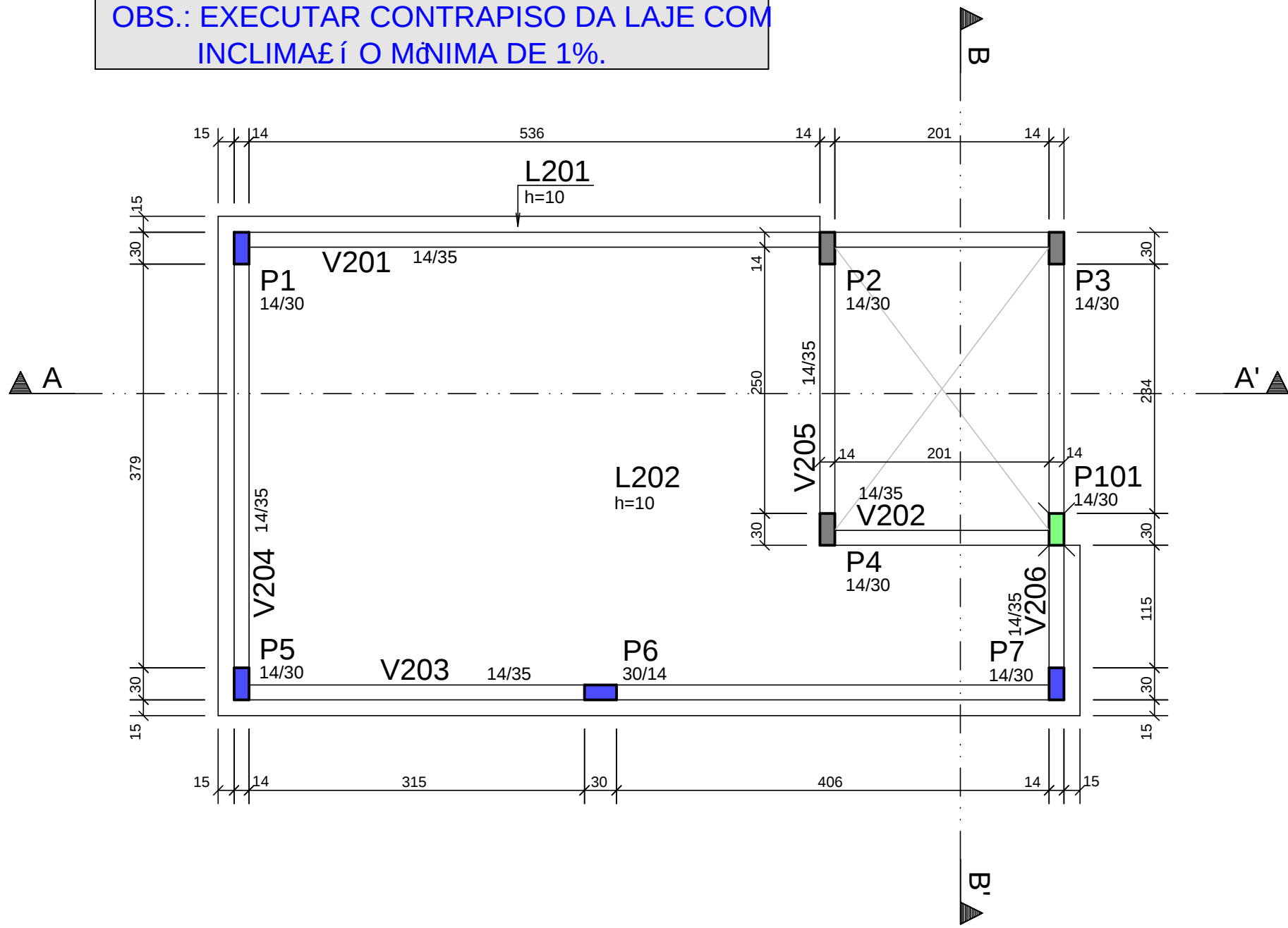


FORMA DA COBERTA 1

ESC.: 1:50 - MEDIDAS EM cm

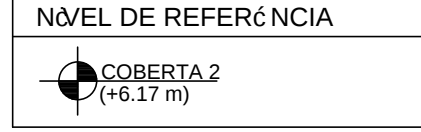


OBS.: EXECUTAR CONTRAPISO DA LAJE COM INCLINA^o E^o M^oNIMA DE 1%.

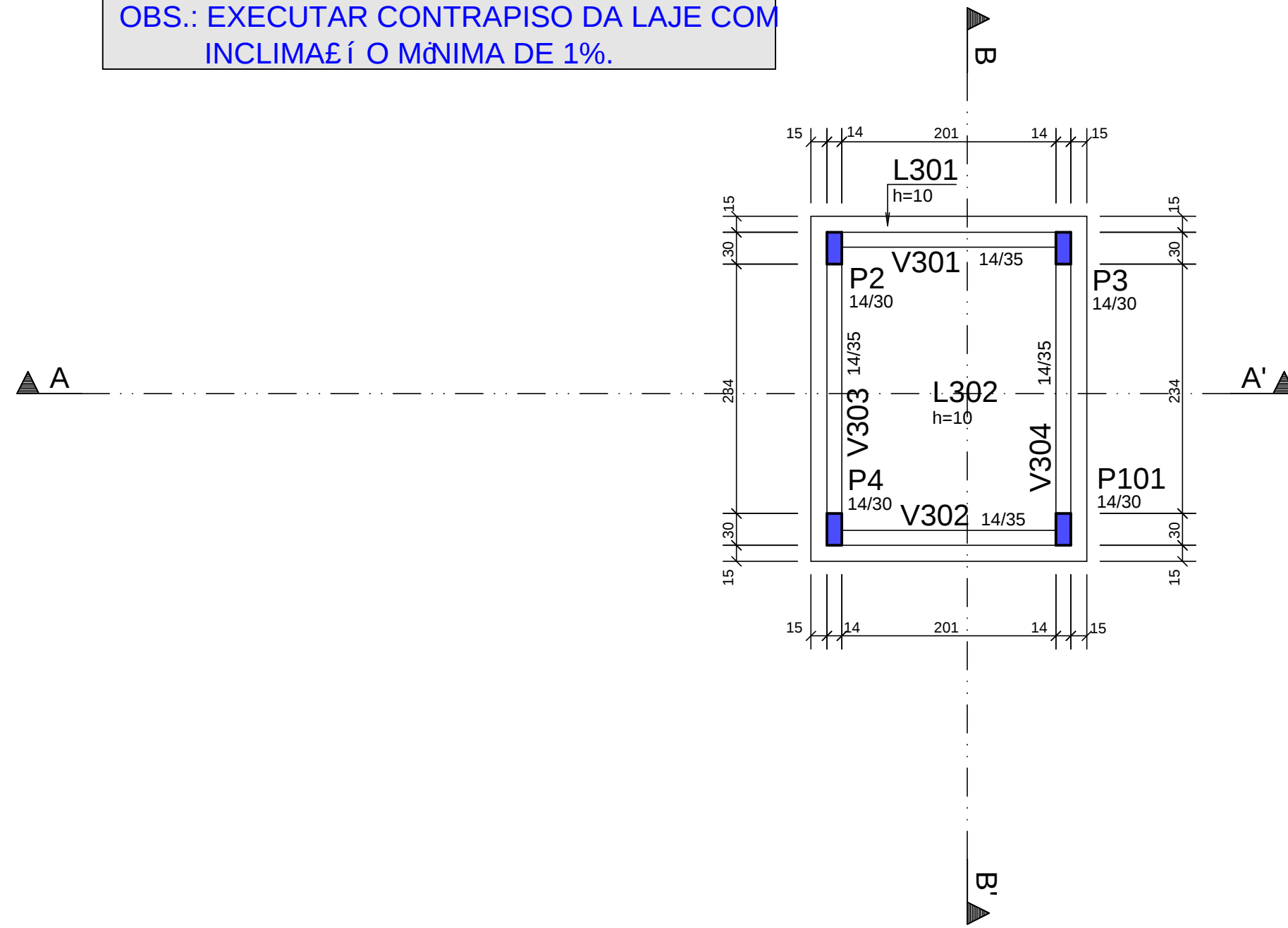


FORMA DA COBERTA 2

ESC.: 1:50 - MEDIDAS EM cm

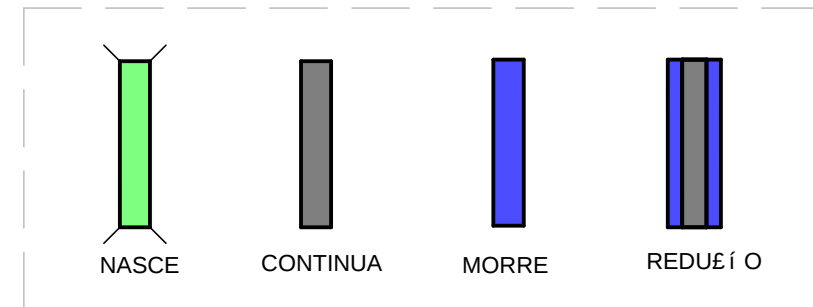


OBS.: EXECUTAR CONTRAPISO DA LAJE COM INCLINA^o E^o M^oNIMA DE 1%.



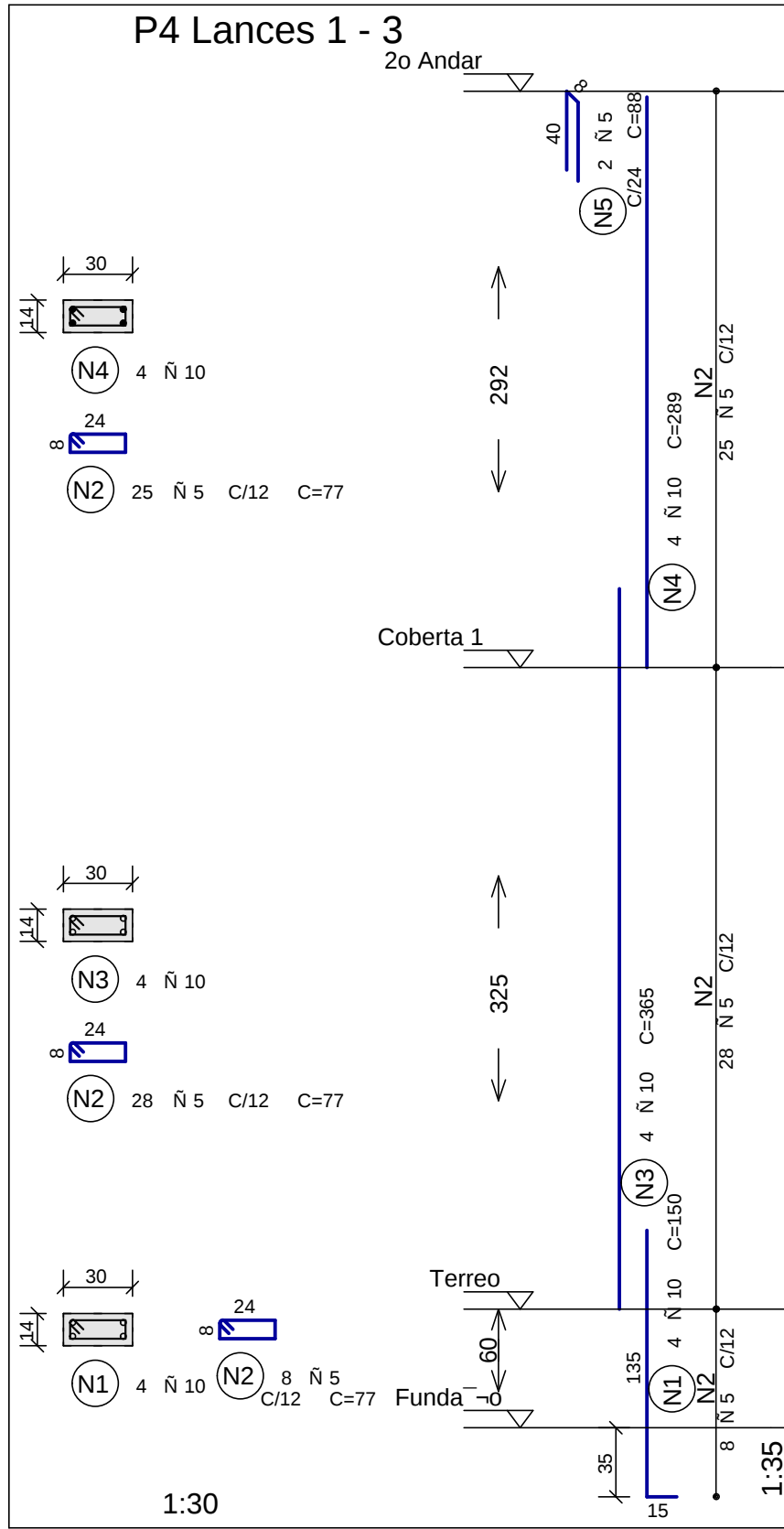
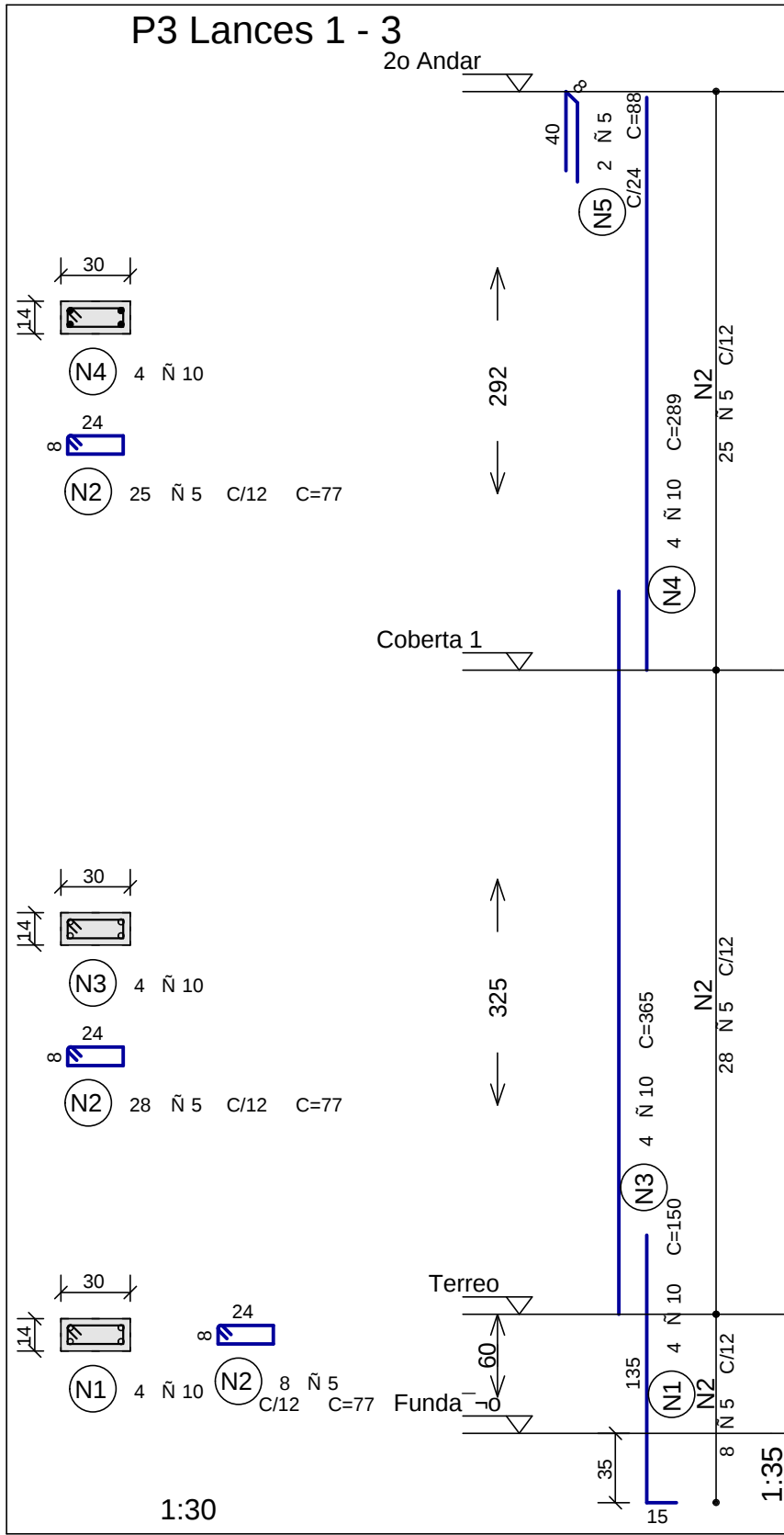
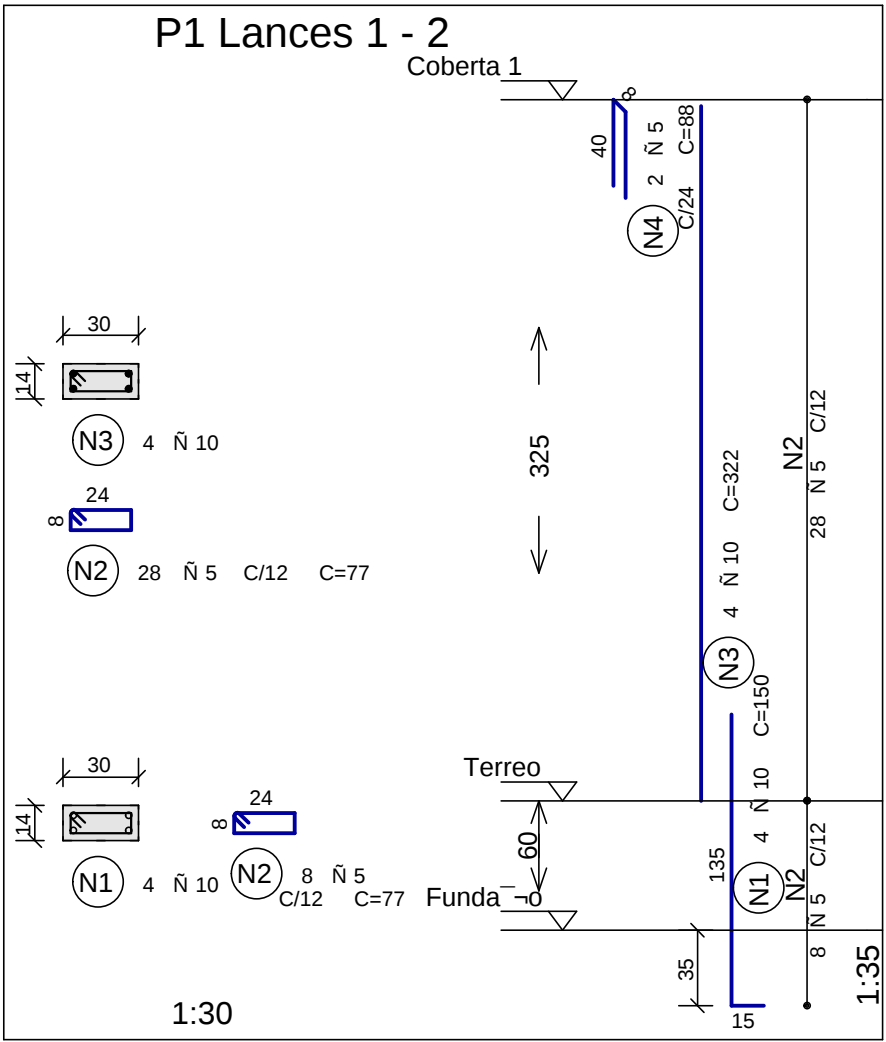
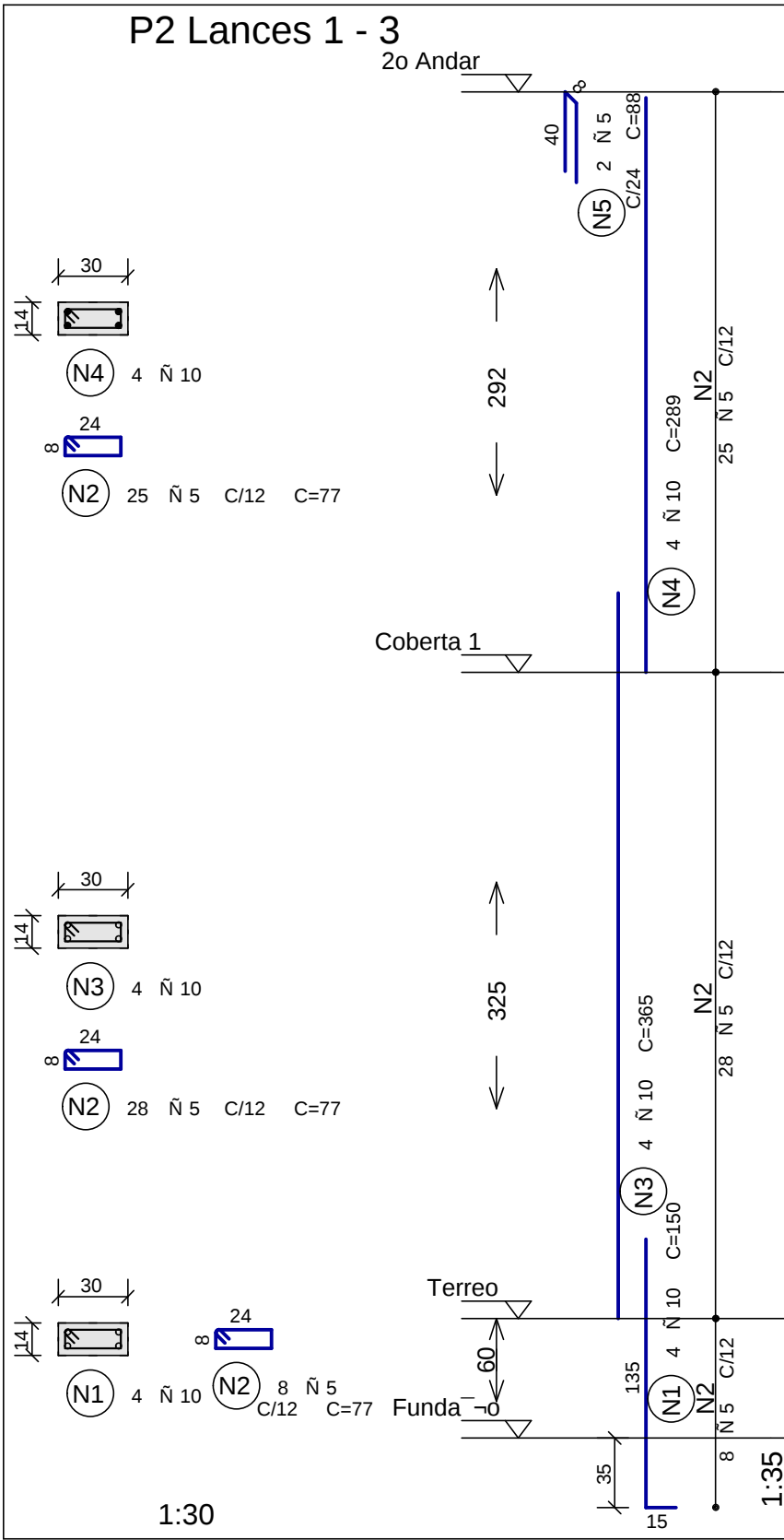
LEGENDA DE F^oRMAS DOS PILARES

SEM ESCALA



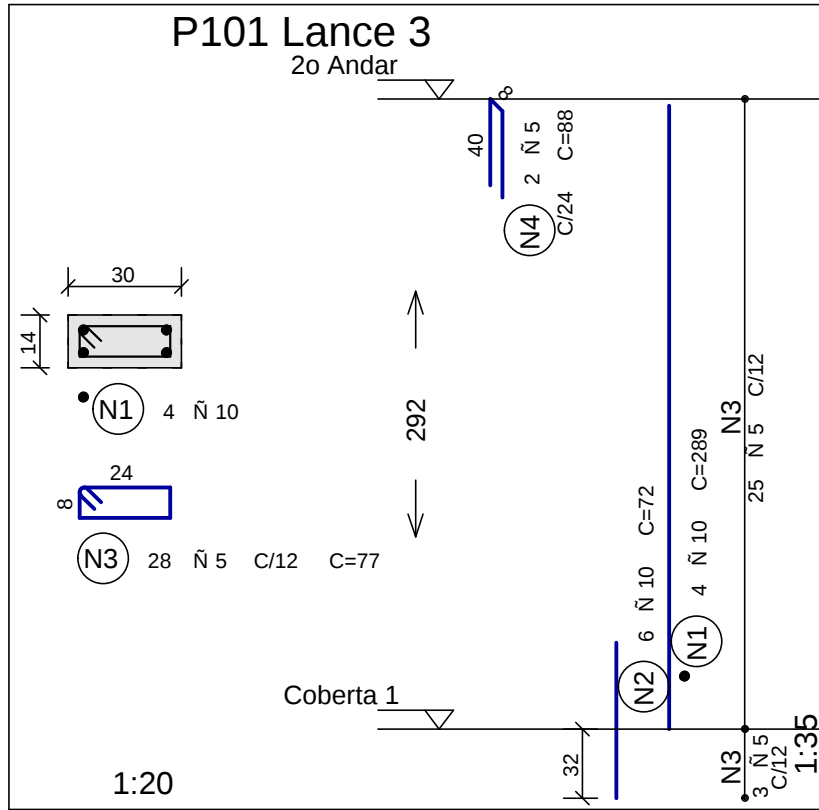
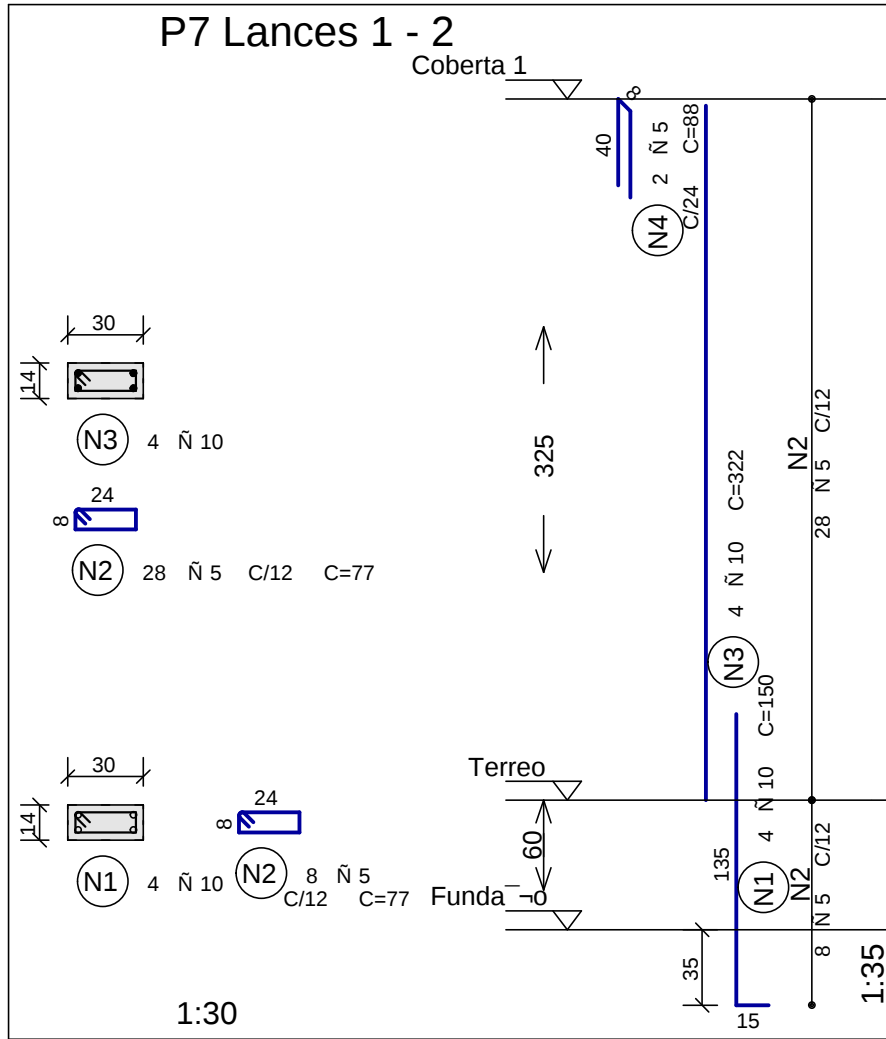
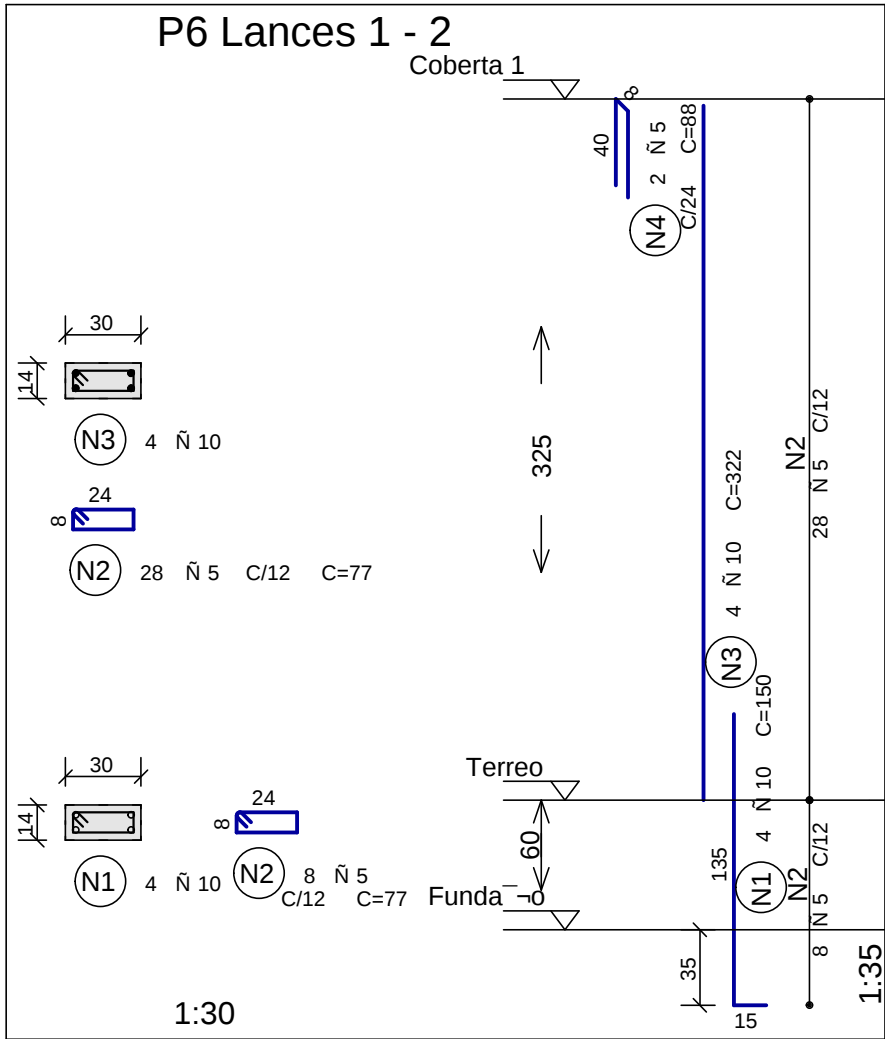
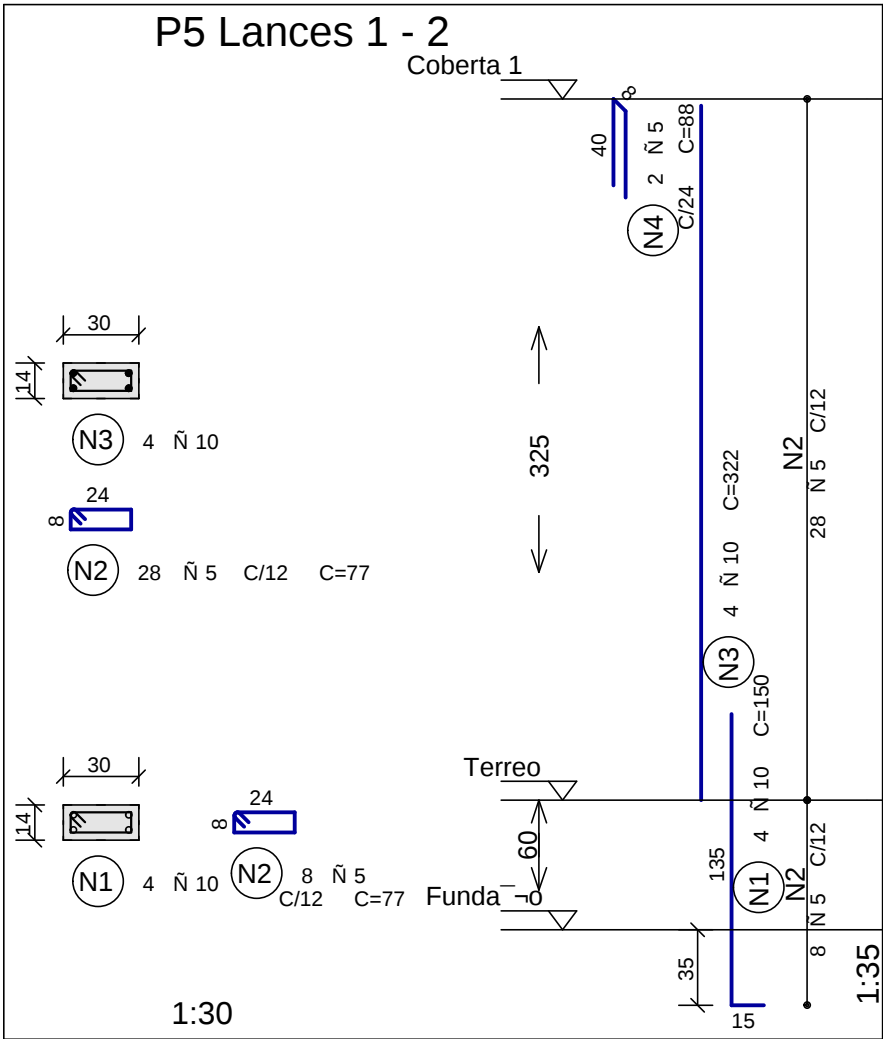
Pavimento	Concreto (m)				Formas (m)			
	Pilares	Vigas	Lajes	Funda ^o yes	Pilares	Vigas	Lajes	Funda ^o yes
CoBERTA 2	0.49	0.43	0.77	0.00	10.28	6.44	7.72	0.00
CoBERTA 1	0.96	1.30	2.78	0.00	20.02	18.37	27.78	0.00
T ^o rreo	0.18	1.29	0.00	0.00	3.70	22.66	0.00	0.00
Funda ^o E ^o F ^o O	0.00	0.00	0.00	1.88	0.00	0.00	0.00	5.32
TOTAL	1.63	3.02	3.55	1.88	23.72	30.47	35.50	5.32

CODEVASF		MINIST ^o RIO DA INTEGRA ^o E ^o DO DESENVOLVIMENTO REGIONAL	
COMPANHIA DE DESENVOLVIMENTO DOS VALES DO S ^o FRANCISCO E DO PARNABA		SUPERINTEND ^o NCIA REGIONAL	
PER ^o METRO P ^u B ^l ICO IRRIGADO DO BOACICA			
PROJETO SUBSTAE ^o E ^o ABRIGADA 750kVA DA EB-ASPERSI ^o O (EB-A2)			
PROJETO ESTRUTURAL			
FORMA DO T ^o RREO, COBERTA 1, COBERTA 2 E CORTES			
PROJETO:	JO ^o O PAULO LEI ^o O LESSA	CREA:	021818625-8
ASSINATURA:			
ESCALA:	1:50	ARQUIVO:	EST.SUBSTAE ^o E ^o O 2/6.DWG
DATA:	ABRIL / 2023	FOLHA:	A1
PRANCHA:			02/06



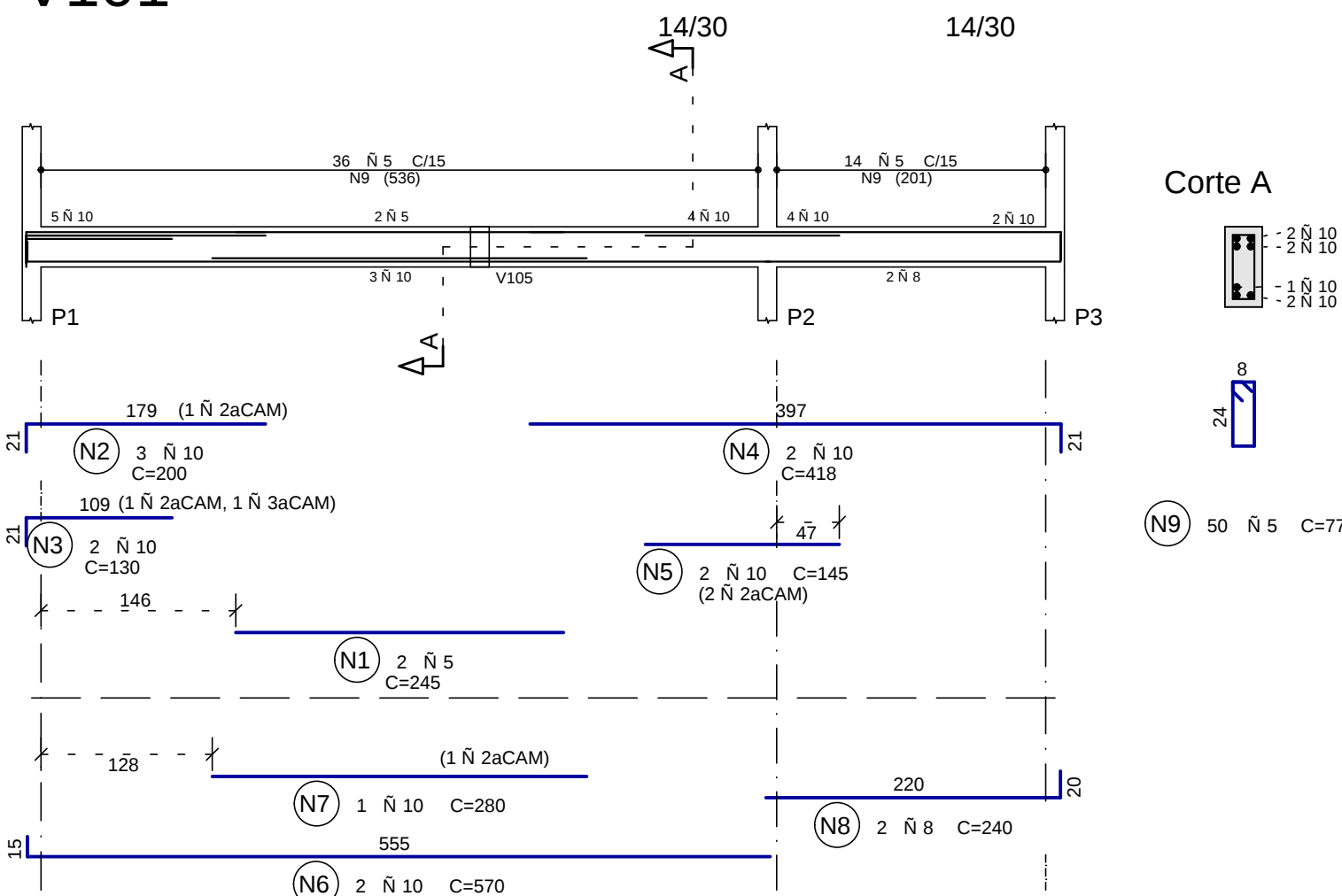
A E O	POS	BIT	QUANT	COMPRIMENTO	
				UNIT cm	TOTAL cm
P1 Lances 1 - 2					
50A	1	10	4	150	600
60A	2	5	36	77	2772
50A	3	10	4	322	1288
60A	4	5	2	88	176
P2 Lances 1 - 3					
50A	1	10	4	150	600
60A	2	5	61	77	4697
50A	3	10	4	365	1460
50A	4	10	4	289	1156
60A	5	5	2	88	176
P3 Lances 1 - 3					
50A	1	10	4	150	600
60A	2	5	61	77	4697
50A	3	10	4	365	1460
50A	4	10	4	289	1156
60A	5	5	2	88	176
P4 Lances 1 - 3					
50A	1	10	4	150	600
60A	2	5	61	77	4697
50A	3	10	4	365	1460
50A	4	10	4	289	1156
60A	5	5	2	88	176
P5 Lances 1 - 2					
50A	1	10	4	150	600
60A	2	5	36	77	2772
50A	3	10	4	322	1288
60A	4	5	2	88	176
P6 Lances 1 - 2					
50A	1	10	4	150	600
60A	2	5	36	77	2772
50A	3	10	4	322	1288
60A	4	5	2	88	176
P7 Lances 1 - 2					
50A	1	10	4	150	600
60A	2	5	36	77	2772
50A	3	10	4	322	1288
60A	4	5	2	88	176
P101 Lance 3					
50A	1	10	4	289	1156
50A	2	10	6	72	432
60A	3	5	28	77	2156
60A	4	5	2	88	176

RESUMO DE AEO			
AEO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	287	44
50A	10	188	116
Peso Total 60A =			44 kgf
Peso Total 50A =			116 kgf

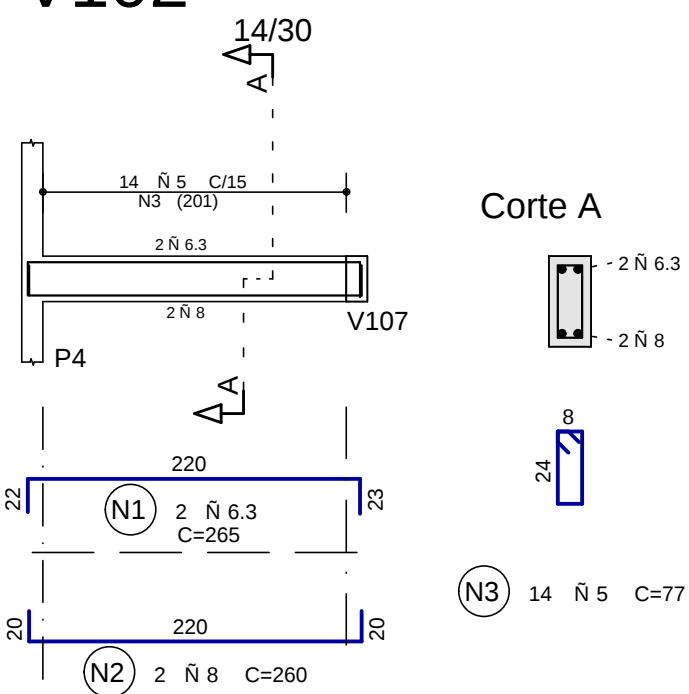


CODEVASF		MINISTRO RIO DA INTEGRAÇÃO E DO DESENVOLVIMENTO REGIONAL	
COMPANHIA DE DESENVOLVIMENTO DOS VALES DO SÃO FRANCISCO E DO PARANAÍBA		SUPERINTENDÊNCIA REGIONAL	
PERÍMETRO PÚBLICO IRRIGADO DO BOACICA			
PROJETO SUBESTAE I O ABRIGADA 750KVA DA EB-ASPERSI O (EB-A2)			
PROJETO ESTRUTURAL			
ARMAÇÃO DOS PILARES			
PROJETO:	JOI O PAULO LEI O LESSA	CREA:	021818625-8
ESCALA:	1:50	ARQUIVO:	EST.SUBESTAE I O 4/6.DWG
DATA:	ABRIL / 2023	FOLHA:	A1
ASSINATURA:		PRANCHA:	
		04/06	

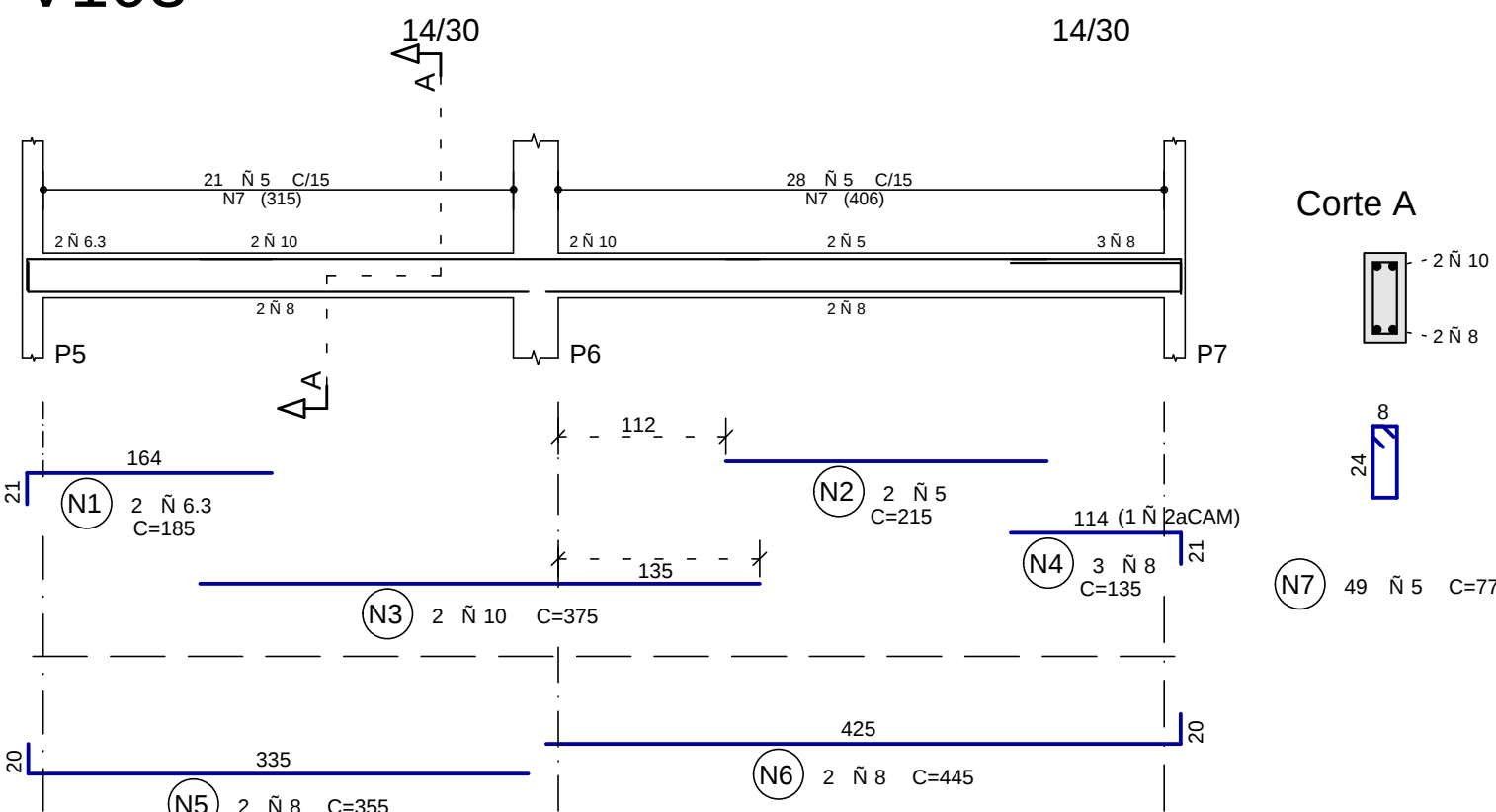
V101



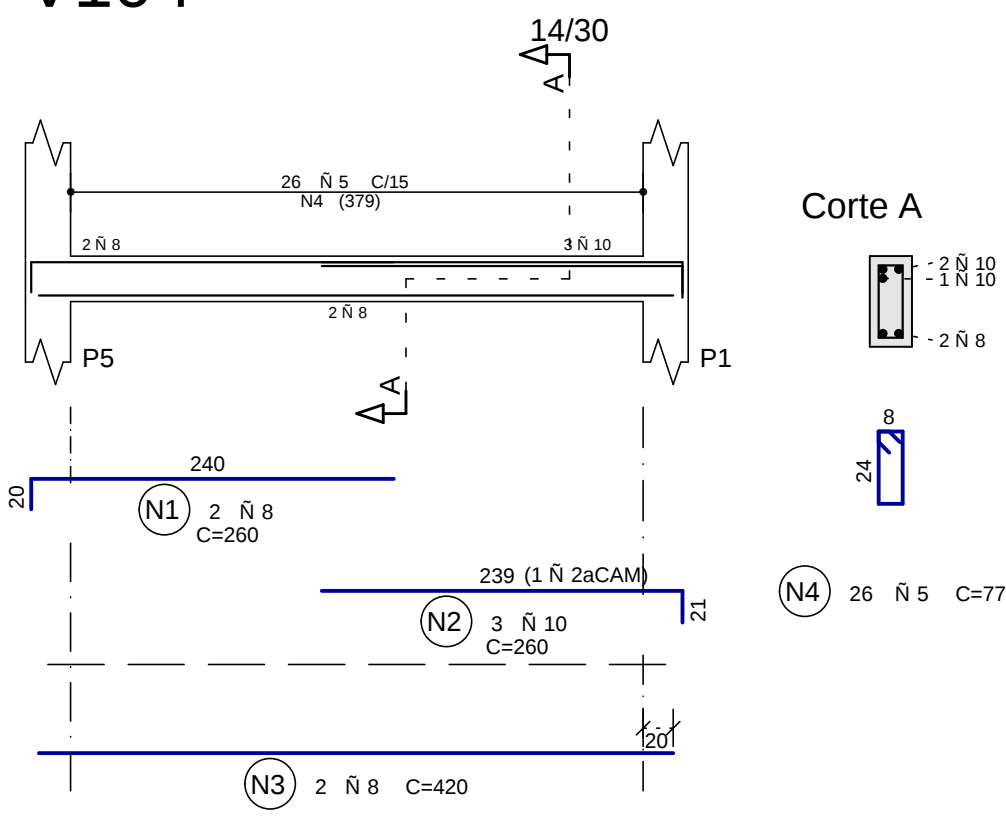
V102



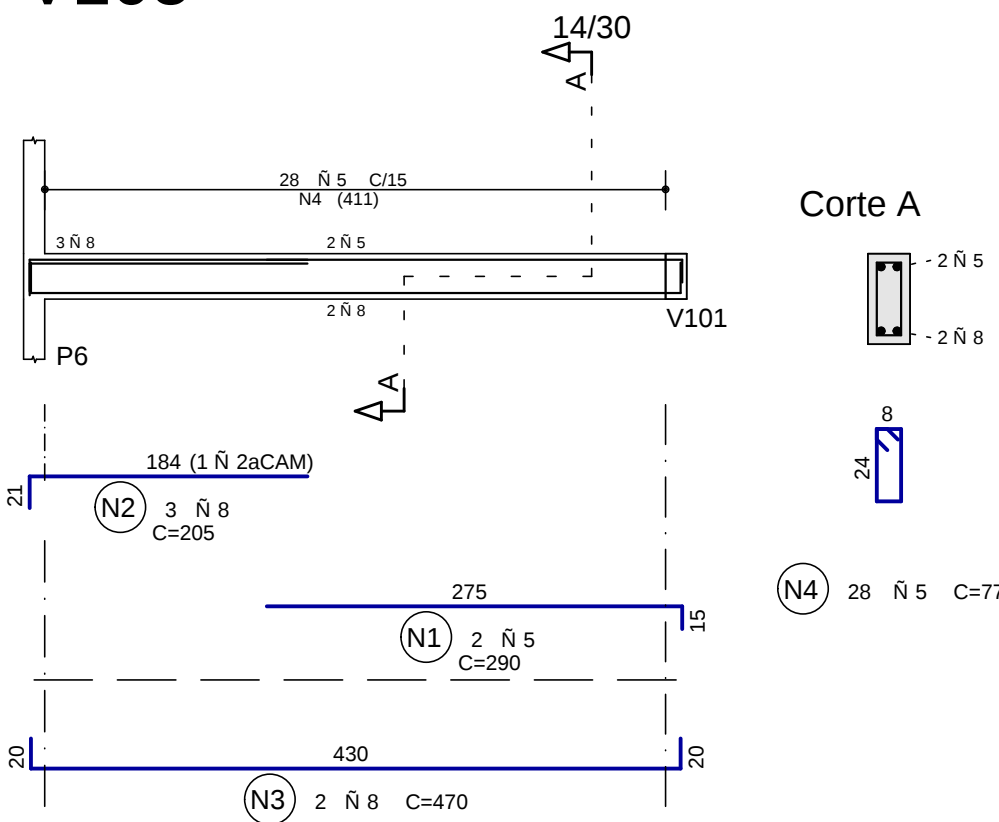
V103



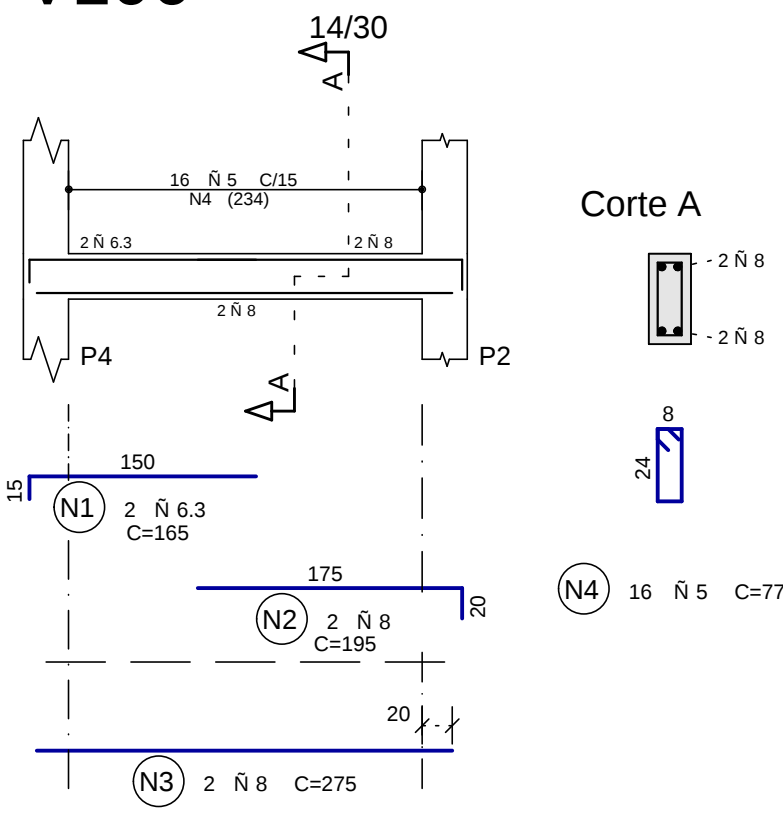
V104



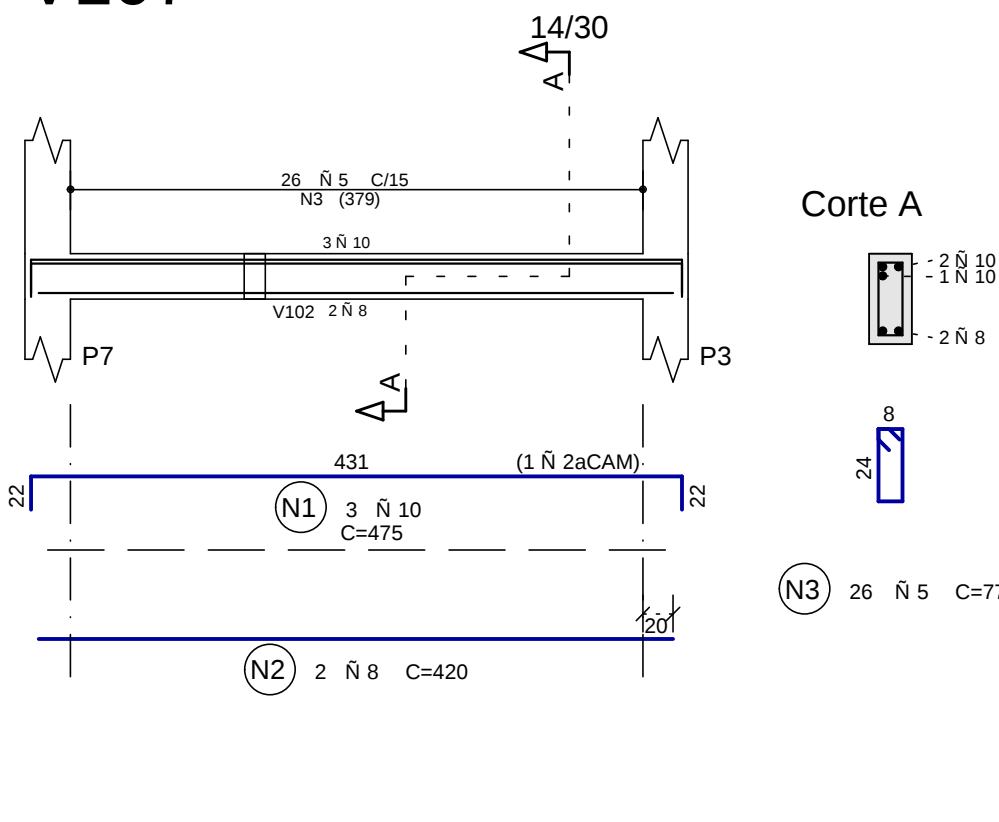
V105



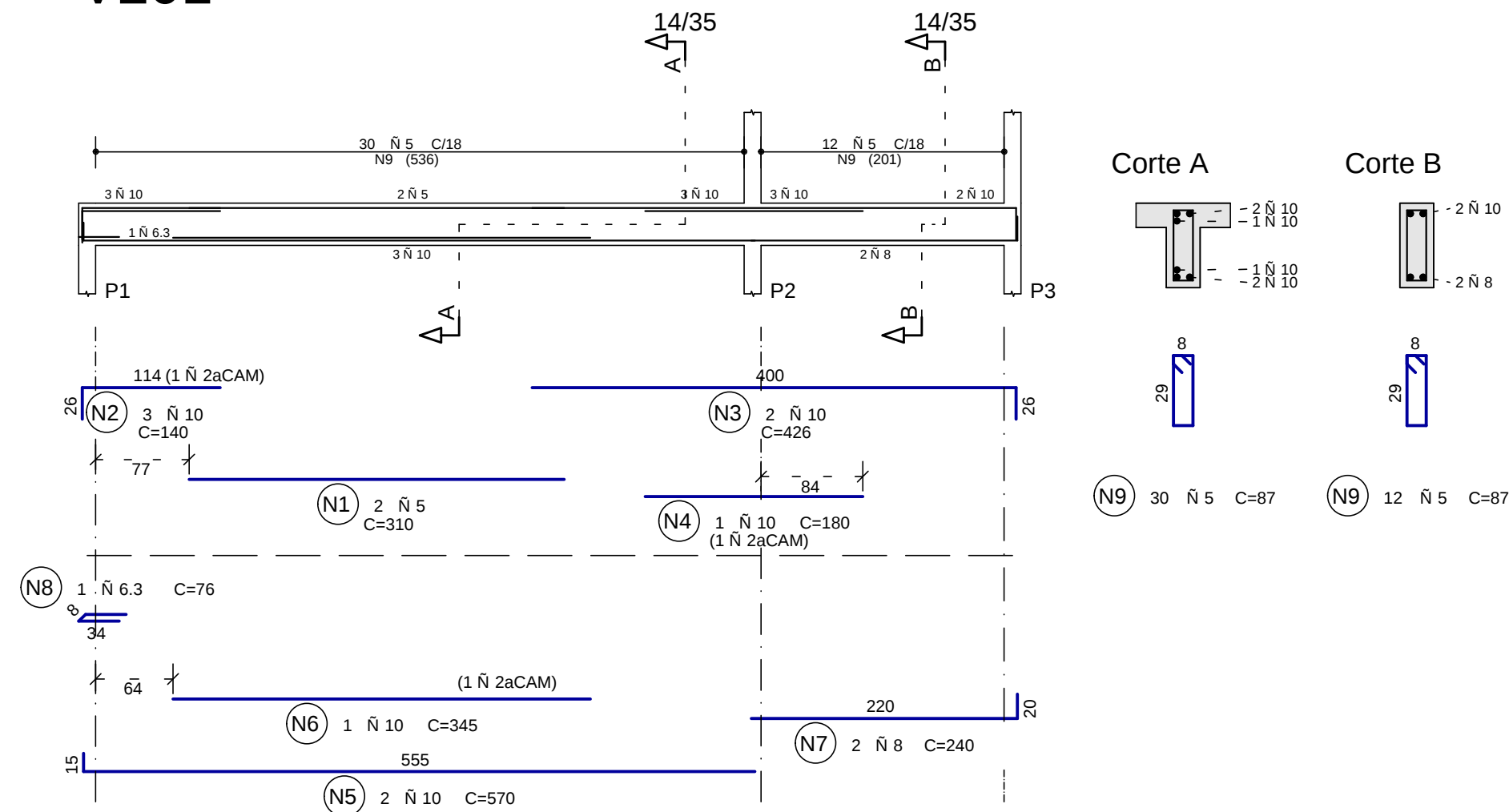
V106



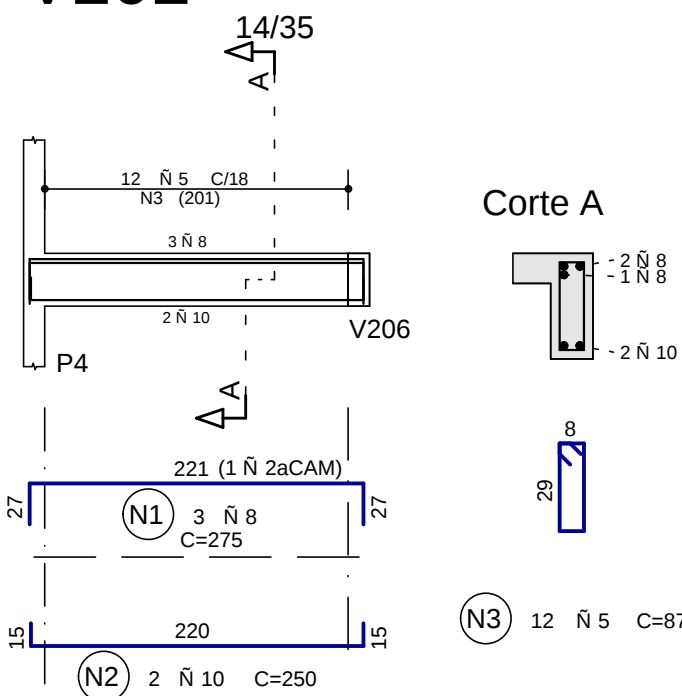
V107



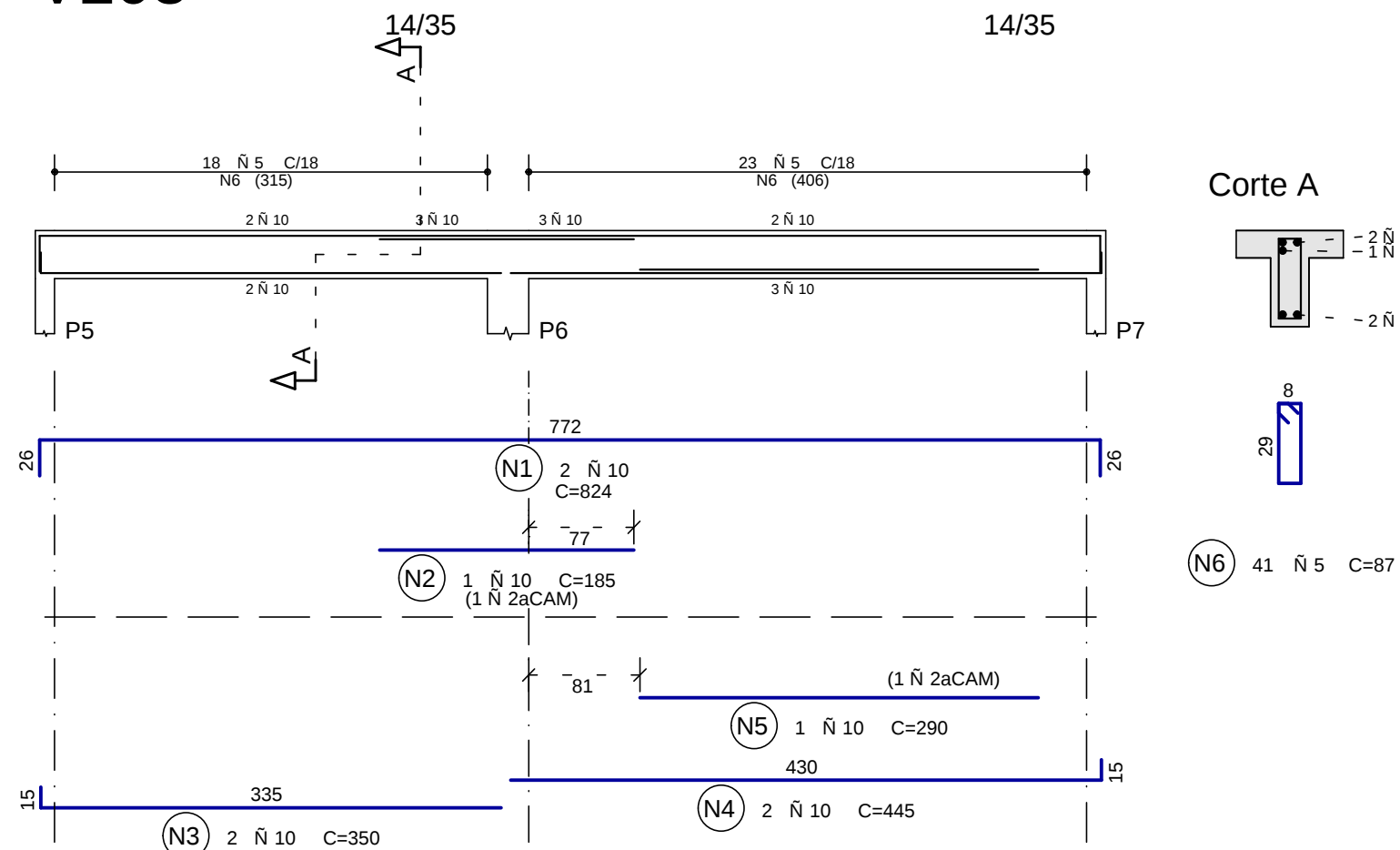
V201



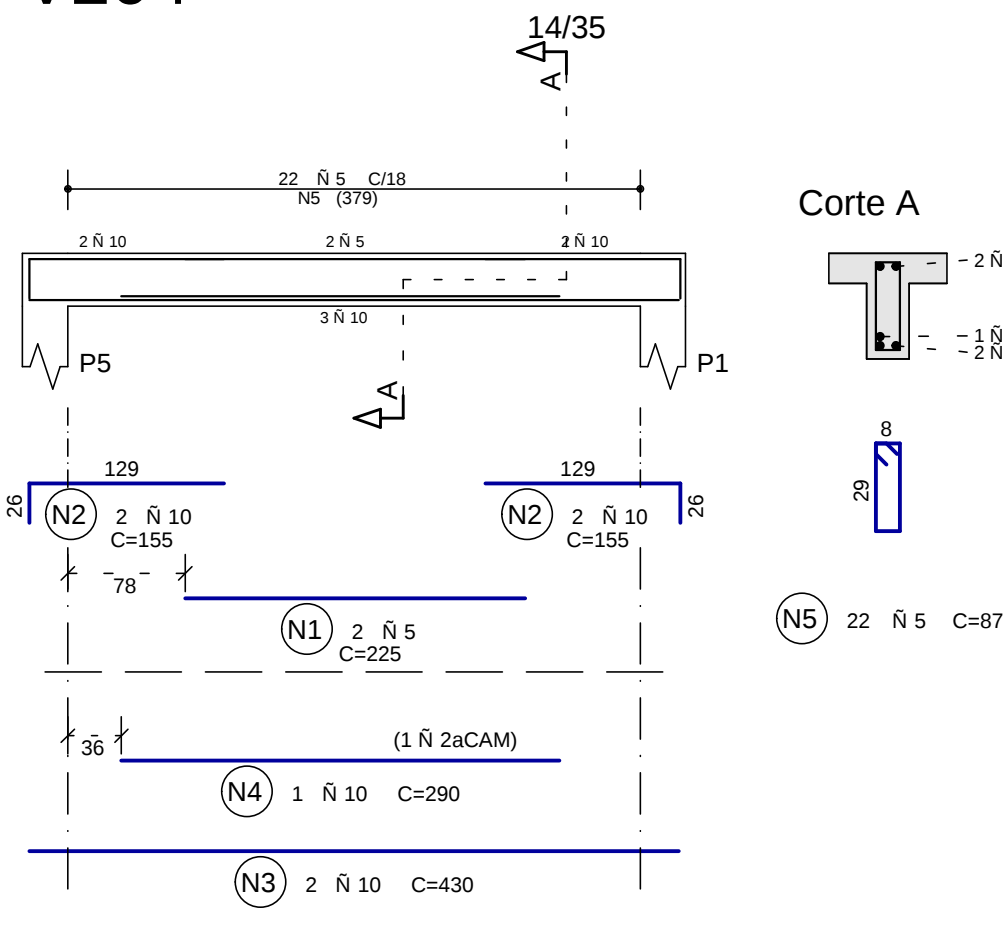
V202



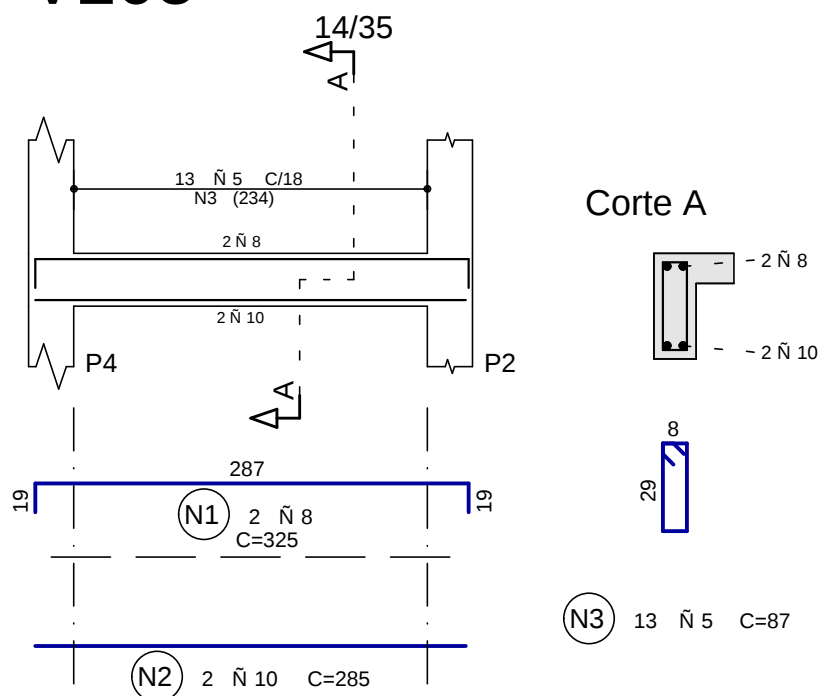
V203



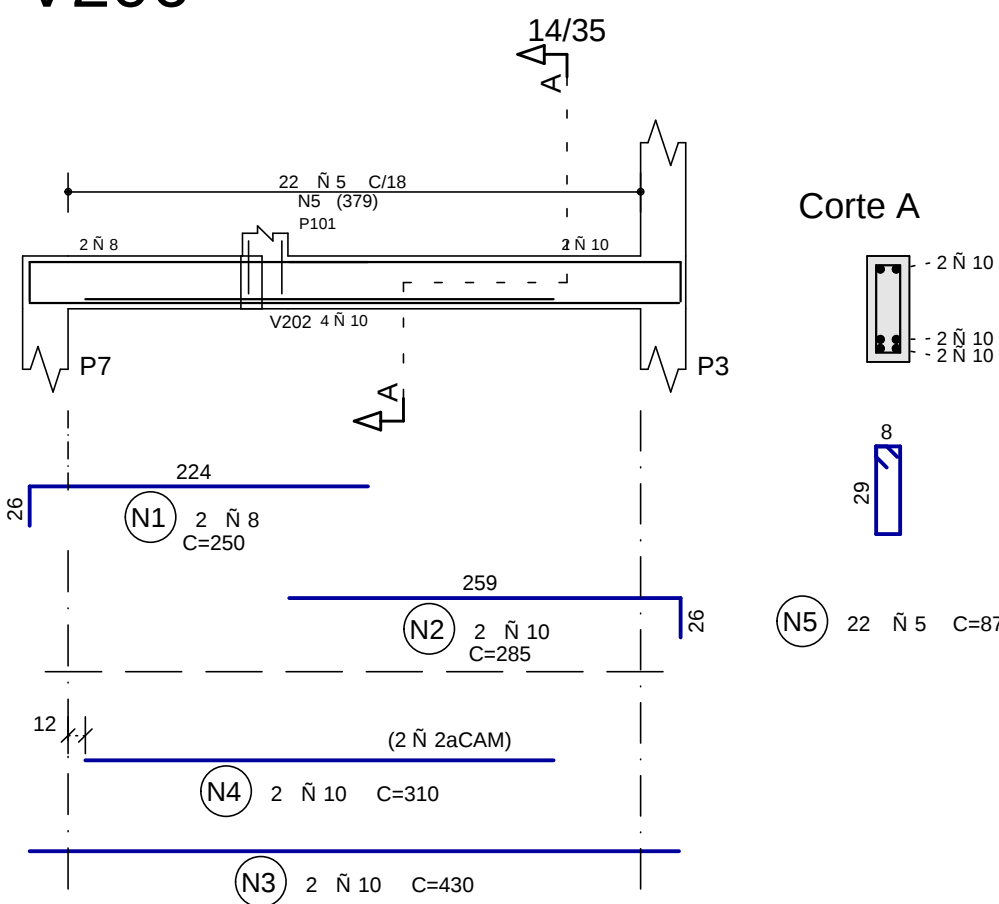
V204



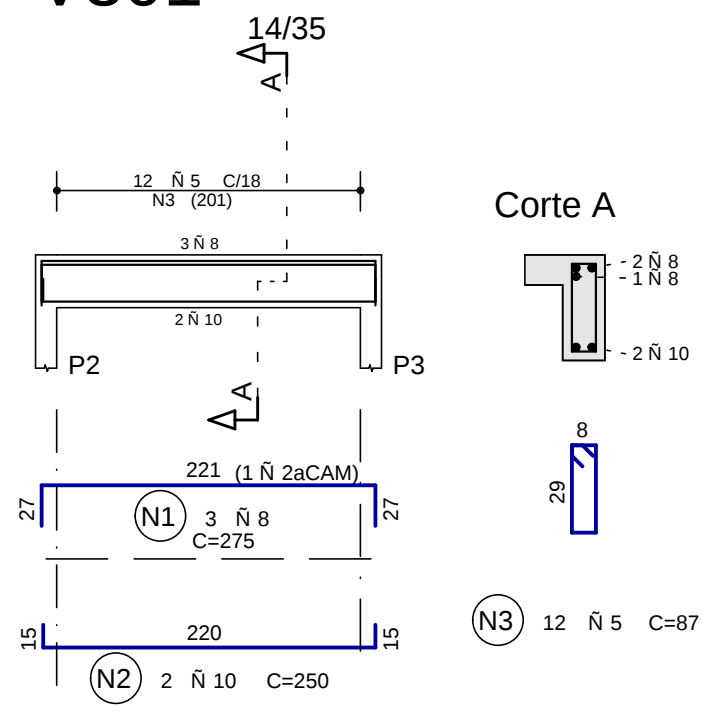
V205



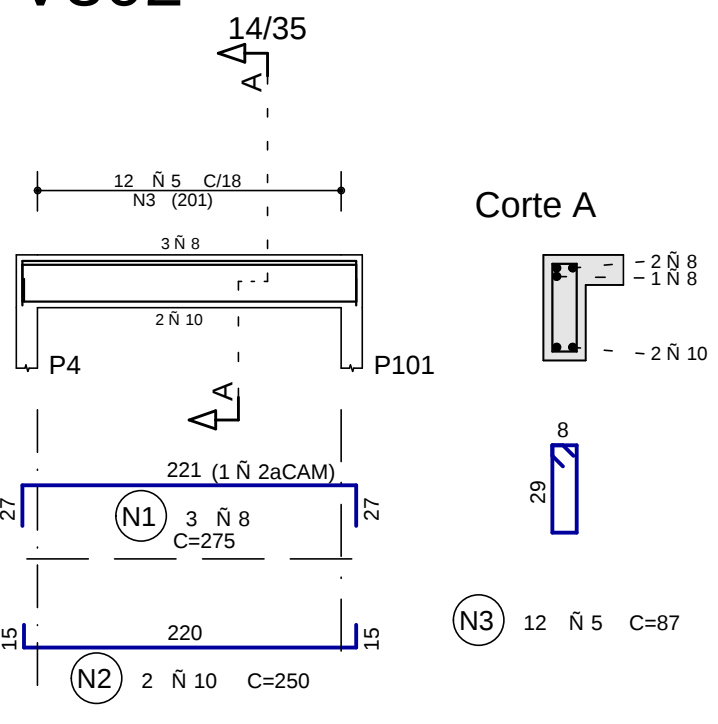
V206



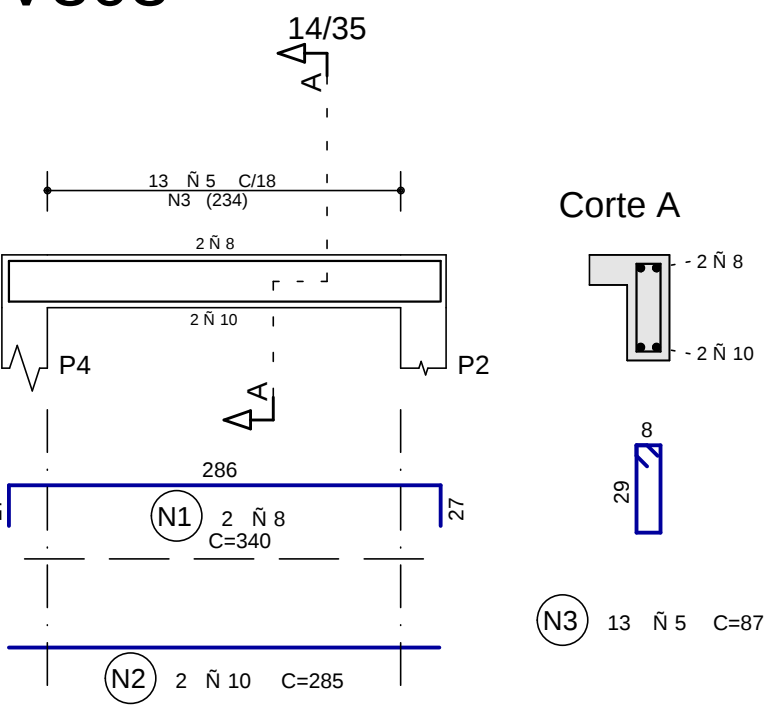
V301



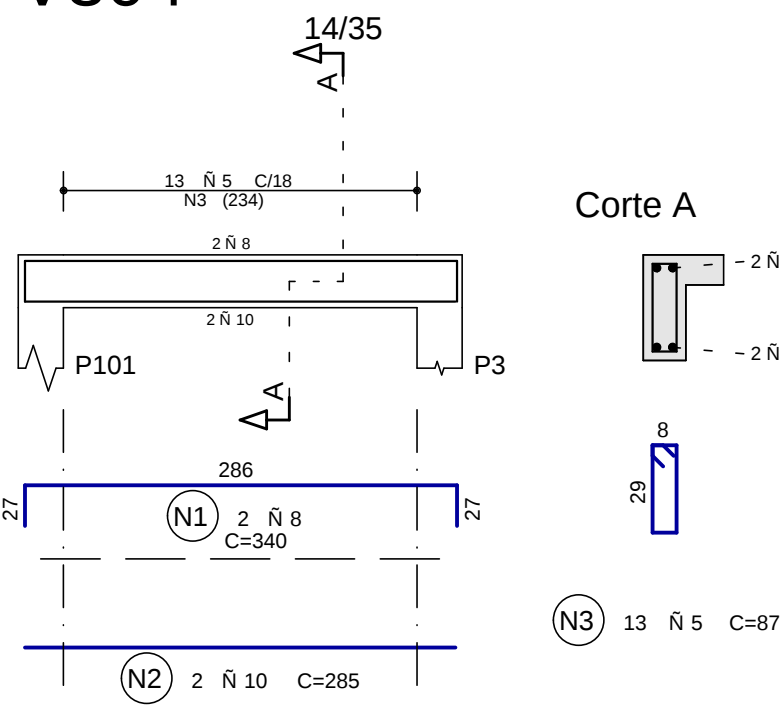
V302



V303

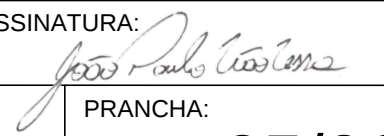


V304



AEO	POS	BIT	QUANT	COMPRIMENTO	
				UNIT	TOTAL
		mm		cm	cm
V101					
60A	1	5	2	245	490
50A	2	10	3	200	600
50A	3	10	2	130	260
50A	4	10	2	418	836
50A	5	10	2	145	290
50A	6	10	2	570	1140
50A	7	10	1	280	280
50A	8	8	2	240	480
60A	9	5	50	77	3850
V102					
50A	1	6.3	2	265	530
50A	2	8	2	260	520
60A	3	5	14	77	1078
V103					
60A	1	6.3	2	185	370
60A	2	5	2	215	430
50A	3	10	2	375	750
50A	4	8	3	135	405
50A	5	10	2	355	710
50A	6	8	2	445	890
60A	7	5	49	77	3773
V104					
50A	1	8	2	260	520
50A	2	10	3	260	780
50A	3	8	2	420	840
60A	4	5	26	77	2002
V105					
60A	1	5	2	290	580
50A	2	8	3	205	615
50A	3	8	2	470	940
60A	4	5	28	77	2156
V106					
50A	1	6.3	2	165	330
50A	2	8	2	195	390
50A	3	8	2	275	550
60A	4	5	16	77	1232
V107					
50A	1	10	3	475	1425
50A	2	8	2	420	840
60A	3	5	26	77	2002
V201					
60A	1	5	2	310	620
50A	2	10	3	140	420
50A	3	10	2	426	852
50A	4	10	1	180	180
50A	5	10	2	570	1140
50A	6	10	1	345	345
50A	7	8	2	240	480
50A	8	6.3	1	76	76
60A	9	5	42	87	3654
V202					
50A	1	8	3	275	825
50A	2	10	2	250	500
60A	3	5	12	87	1044
V203					
50A	1	10	2	824	1648
50A	2	10	1	185	185
50A	3	10	2	350	700
50A	4	10	2	445	890
50A	5	10	1	290	290
60A	6	5	41	87	3567
V204					
60A	1	5	2	225	450
50A	2	10	4	155	620
50A	3	10	2	430	860
50A	4	10	1	290	290
60A	5	5	22	87	1914
V205					
50A	1	8	2	325	650
50A	2	10	2	285	570
60A	3	5	13	87	1131
V206					
50A	1	8	2	250	500
50A	2	10	2	285	570
50A	3	10	2	430	860
50A	4	10	2	310	620
60A	5	5	22	87	1914
V301					
50A	1	8	3	275	825
50A	2	10	2	250	500
60A	3	5	12	87	1044
V302					
50A	1	8	3	275	825
50A	2	10	2	250	500
60A	3	5	12	87	1044
V303					
50A	1	8	2	340	680
50A	2	10	2	285	570
60A	3	5	13	87	1131
V304					
50A	1	8	2	340	680
50A	2	10	2	285	570
60A	3	5	13	87	1131

RESUMO DE AEO			
AEO	BIT	COMPR	PESO
	mm	m	kgf
60A	5	362	56
50A	6.3	13	3
50A	8	132	52
50A	10	200	124
Peso Total		60A =	56 kgf
Peso Total		50A =	179 kgf

CODEVASF		MINISTÉRIO DA INTEGRAÇÃO E DO DESENVOLVIMENTO REGIONAL COMPANHIA DE DESENVOLVIMENTO DOS VALES DO SI O FRANCISCO E DO PARNABA SUPERINTENDÊNCIA REGIONAL	
PERÍMETRO PÚBLICO IRRIGADO DO BOACICA PROJETO SUBESTAE I O ABRIGADA 750KVA DA EB-ASPERSI O (EB-A2)			
PROJETO ESTRUTURAL ARMAE I O DAS VIGAS			
PROJETO: JOI O PAULO LEI O LESSA	CREA: 021818625-8	ASSINATURA: 	PRANCHA: 05/06
ESCALA: 1:50	ARQUIVO: EST.SUBESTAE I O 5/6.DWG	DATA: ABRIL / 2023	
FOLHA: A1			

Technical drawing of a rectangular room with dimensions and furniture placement. The room is 490 units wide and 95 units high. It contains a bed (N1) on the left, a desk (N2) on the top right, a chair (N3) in the center, and a table (N4) on the bottom right. Dimensions for furniture and clearances are provided in various units (N, C, 10, 4).

Room Dimensions:

- Width: 490
- Height: 95

Furniture and Dimensions:

- N1 (Bed):** 110 (width), 38 (height), 4 (clearance from left wall), 10 (clearance from bottom wall).
- N2 (Desk):** 81 (width), 10 (height), 4 (clearance from top wall), 10 (clearance from right wall).
- N3 (Chair):** 14 (width), 6.3 (height), 4 (clearance from left wall), 95 (clearance from bottom wall).
- N4 (Table):** 13 (width), 6.3 (height), 4 (clearance from left wall), 490 (clearance from right wall).

Clearances and Distances:

- Top wall: 2 (clearance from N2), N 6.3 (distance from N2 to N3), C/10 (distance from N3 to N2), C=99 (distance from N2 to right wall).
- Right wall: C/20 (distance from N2 to N3), C=103 (distance from N3 to N2), C=508 (distance from N4 to right wall).
- Bottom wall: 10 (clearance from N4), 490 (distance from N4 to right wall).

RESUMO DE A E O			
A E O	BIT mm	COMPR m	PESO kgf
50A	6.3	1102	270
Peso Total	50A =	270 kgf	

Technical drawing of a rectangular frame with three horizontal sections labeled N1, N2, and N3. The frame has a total height of 12. The sections are defined by their dimensions and widths:

- N1 (Top Section):** Dimensions 2, 6.3, C/12.5, C=568. Width 660.
- N2 (Middle Section):** Dimensions 23, 6.3, C/12.5, C=582. Width 574.
- N3 (Bottom Section):** Dimensions 13, 6.3, C/12.5, C=812. Width 804.

The frame includes a diagonal cross in the top right corner and a small rectangular detail at the bottom center.

Technical drawing of a rectangular frame structure. The drawing shows a main rectangle with a smaller rectangle inside it. The main rectangle has a width of 462 and a height of 157. The inner rectangle has a width of 19 and a height of 12.5. The distance between the inner and outer rectangles is 107. The drawing includes labels for various points and dimensions:

- Top-left corner: (N1) 57 N 6.3 C/10 C=472
- Top-right corner: 5
- Bottom-left corner: 5
- Bottom-right corner: (N2) 19 N 6.3 C/12.5
- Inner rectangle dimensions: 12.5 (width), 107 (height), 19 (width), 12.5 (height)
- Inner rectangle corner labels: (N2) 19 N 6.3 C/12.5, 5, 107, 12.5
- Inner rectangle corner labels: 5, 107, 12.5, 19 N 6.3 C/12.5

Figure 10 consists of two diagrams illustrating the calculation of the effective length factor (N_1) for a column. The top diagram shows a column with a fixed base and a pinned top, with dimensions 26, 6.3, 102, 5, and 10. The bottom diagram shows a column with a fixed base and a fixed top, with dimensions 26, 6.3, 102, 5, and 10. Both diagrams include the formula $N_1 = 26 \cdot 6.3 / (C/12.5 \cdot C)$ and the value $C=122$.

Technical drawing of a square frame. The outer square has a side length of 254. The inner square has a side length of 22. The distance between the inner and outer squares is 6.3. The frame is labeled with 'N1' in a circle on the left side. The frame is composed of four corner pieces, each labeled 'C/15'. The total length of the frame is labeled 'C=254'.

Technical drawing of a rectangular frame. The drawing shows a rectangle with a double-line border. Inside the rectangle, there is a circle labeled (N1). To the right of the circle, the text "14 N 6.3 C/H5" is written. Below this text, the number "317" is written. At the bottom of the rectangle, there is a horizontal line with arrows at both ends, labeled "4" at each end. Above this line, the text "C=325" is written.

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