



SERVIÇO PÚBLICO FEDERAL  
CONSELHO FEDERAL DE MEDICINA VETERINÁRIA

## **ANEXO I – PROJETO BÁSICO**

## **ANEXO I – DOCUMENTAÇÃO BÁSICA**

ACESSÍVEL EM: [drive.google.com/drive/folders/12ZLNuNnHmyz1TiYp0gp71s6uuglaQe8r](https://drive.google.com/drive/folders/12ZLNuNnHmyz1TiYp0gp71s6uuglaQe8r)

### **ANEXO 03 – PROJETOS**

ESTRUTURA

ESTRUTURA EM CONCRETO



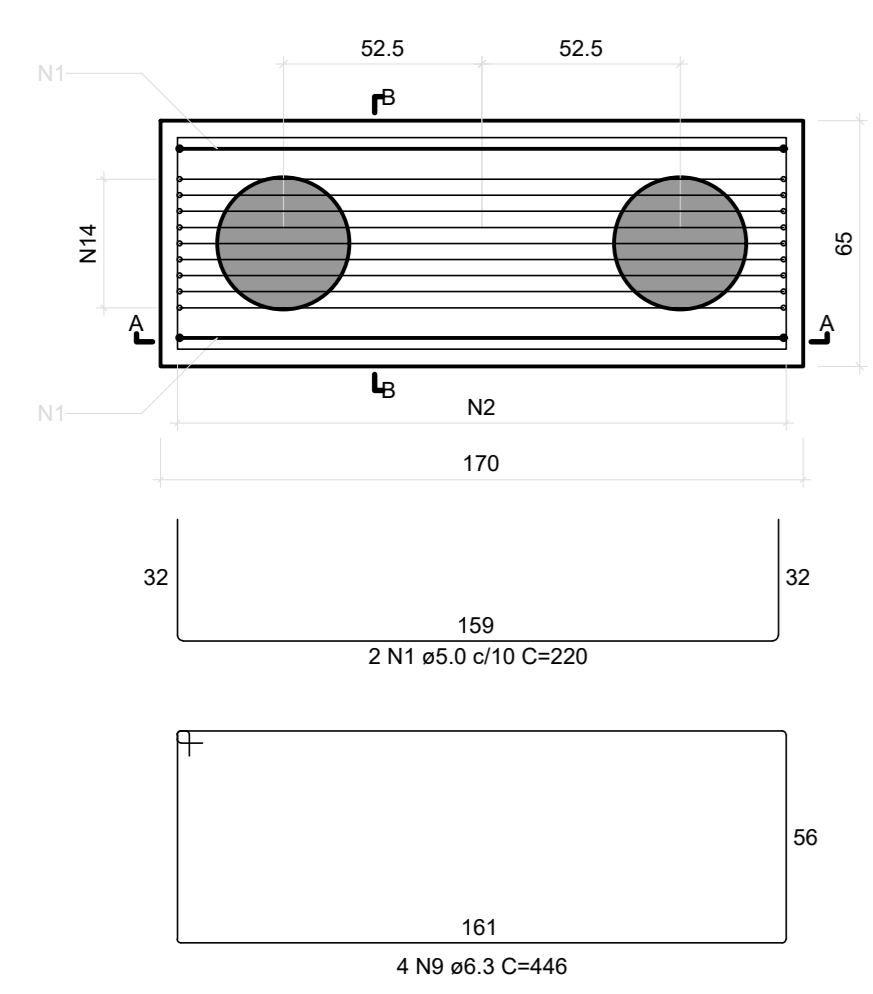
**CFMV**  
CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
SISTEMA CFMV/CRMVs

SIA - TRECHO 3, LOTES 145/155 - CEP: 71200-037 - BRASÍLIA-DF  
TELEFONE: +55 (61) 2106-0400  
CFMV@CFMV.GOV.BR - WWW.CFMV.GOV.BR

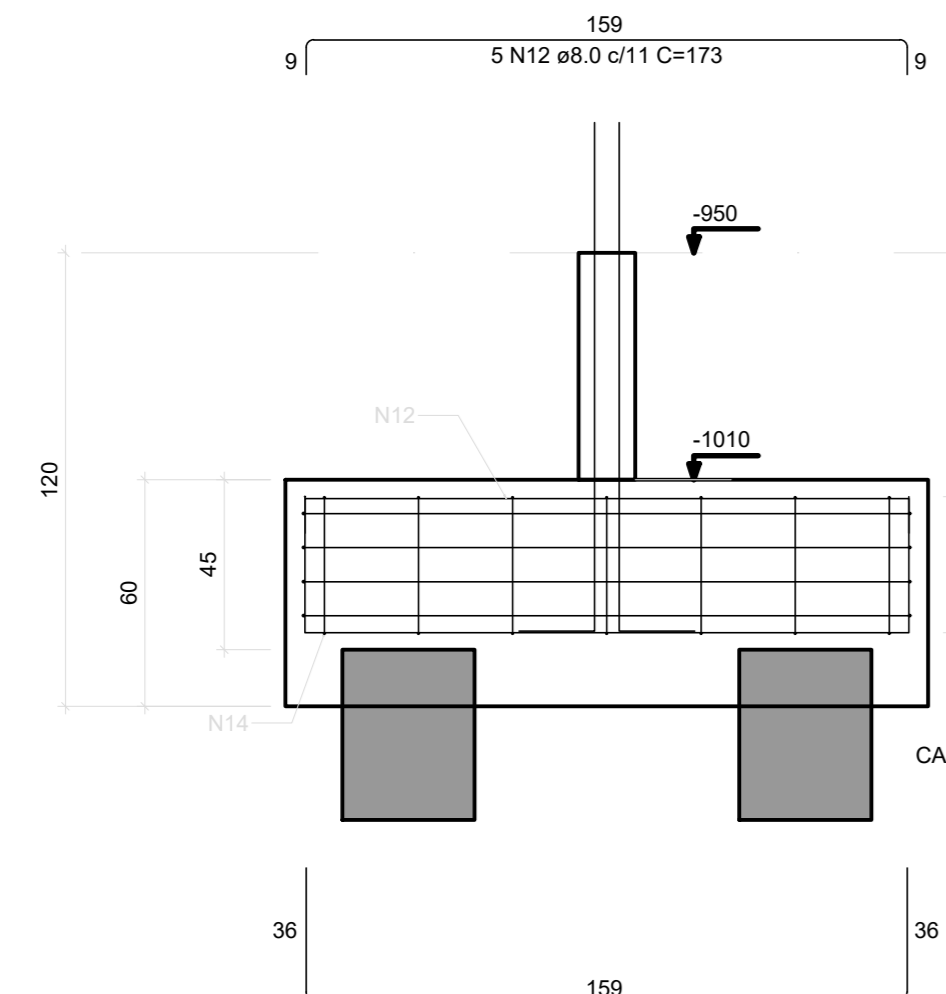




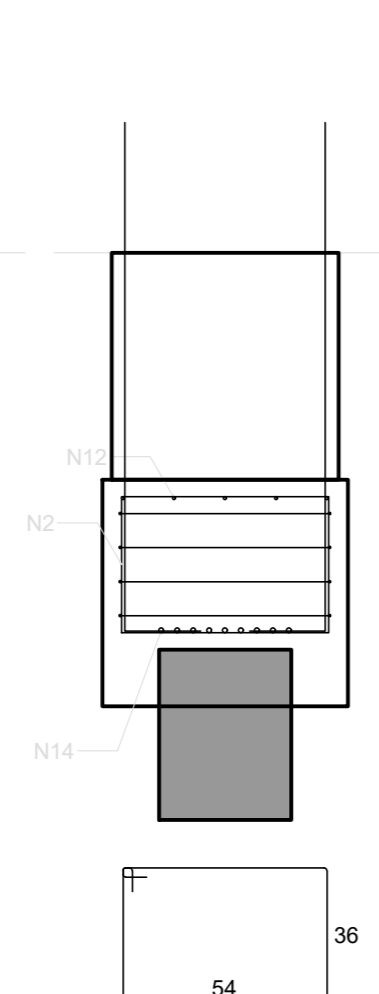
B29  
2xC35  
PLANTA  
ESC 1:20



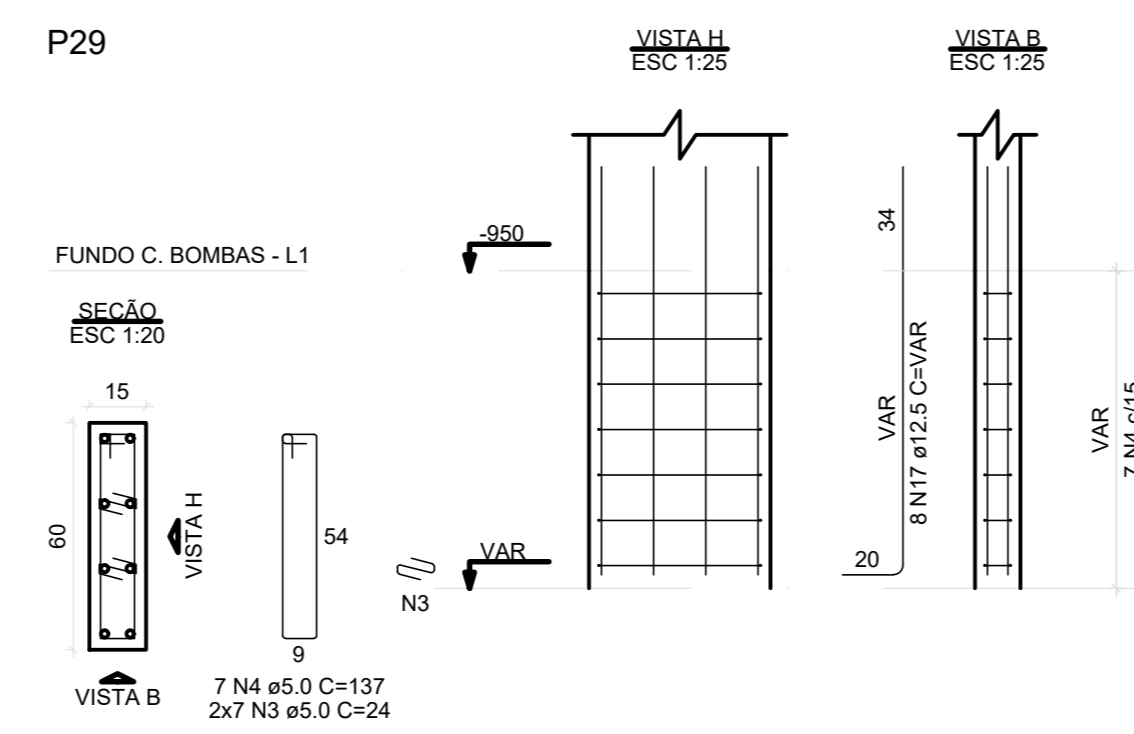
CORTE A-A  
ESC 1:20



CORTE B-B  
ESC 1:20



P29



RELAÇÃO DO AÇO - Casa de Bombas - PARTE 02

ACD	N	DIAM (mm)	QUANT	C. UNIT (mm)	C. TOTAL (mm)
CASO	2	5.0	25	225	1110
	3	5.0	7	191	1337
	4	5.0	7	137	959
	5	5.0	14	24	336
	6	5.0	36	26	936
	7	5.0	12	155	1860
	8	5.0	9	135	1215
	9	6.3	4	545	2180
	10	6.3	11	558	2194
	11	6.3	34	172	5848
	12	8.0	5	173	865
	13	8.0	2	172	344
	14	12.5	9	225	2025
	15	12.5	22	VAR	VAR
	16	12.5	25	VAR	VAR
	17	12.5	8	VAR	VAR
	18	12.5	10	VAR	VAR

ACD	DIAM (mm)	C. TOTAL (mm)	PESO + 10% (kg)
CASO	8.0	167.8	36.9
	5.0	8.7	5.8
	12.5	167.5	18.1
	5.0	200.8	40.8

PESO TOTAL (kg): 61.6

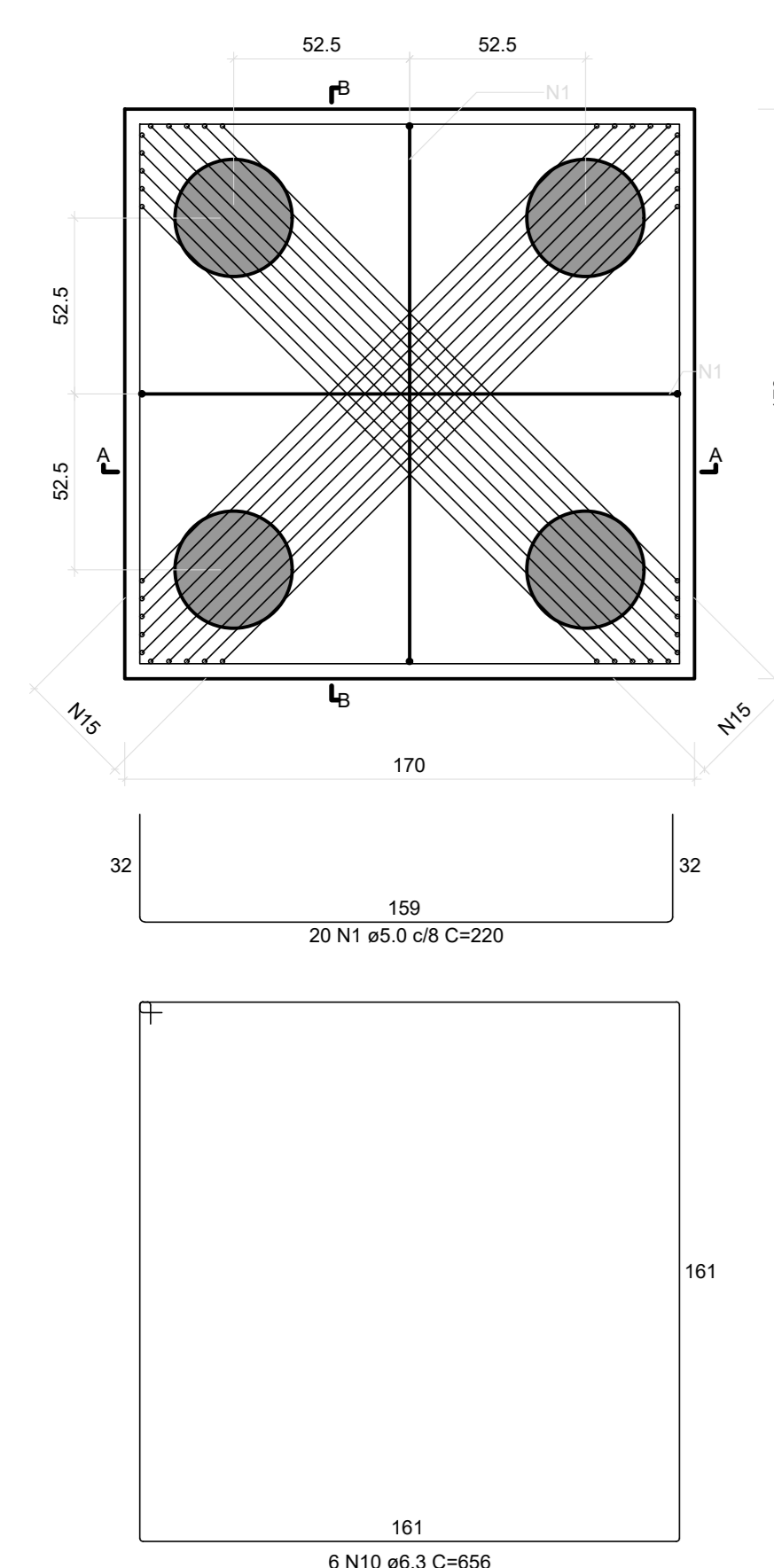
CASO: 222.8

CASO: 60.5

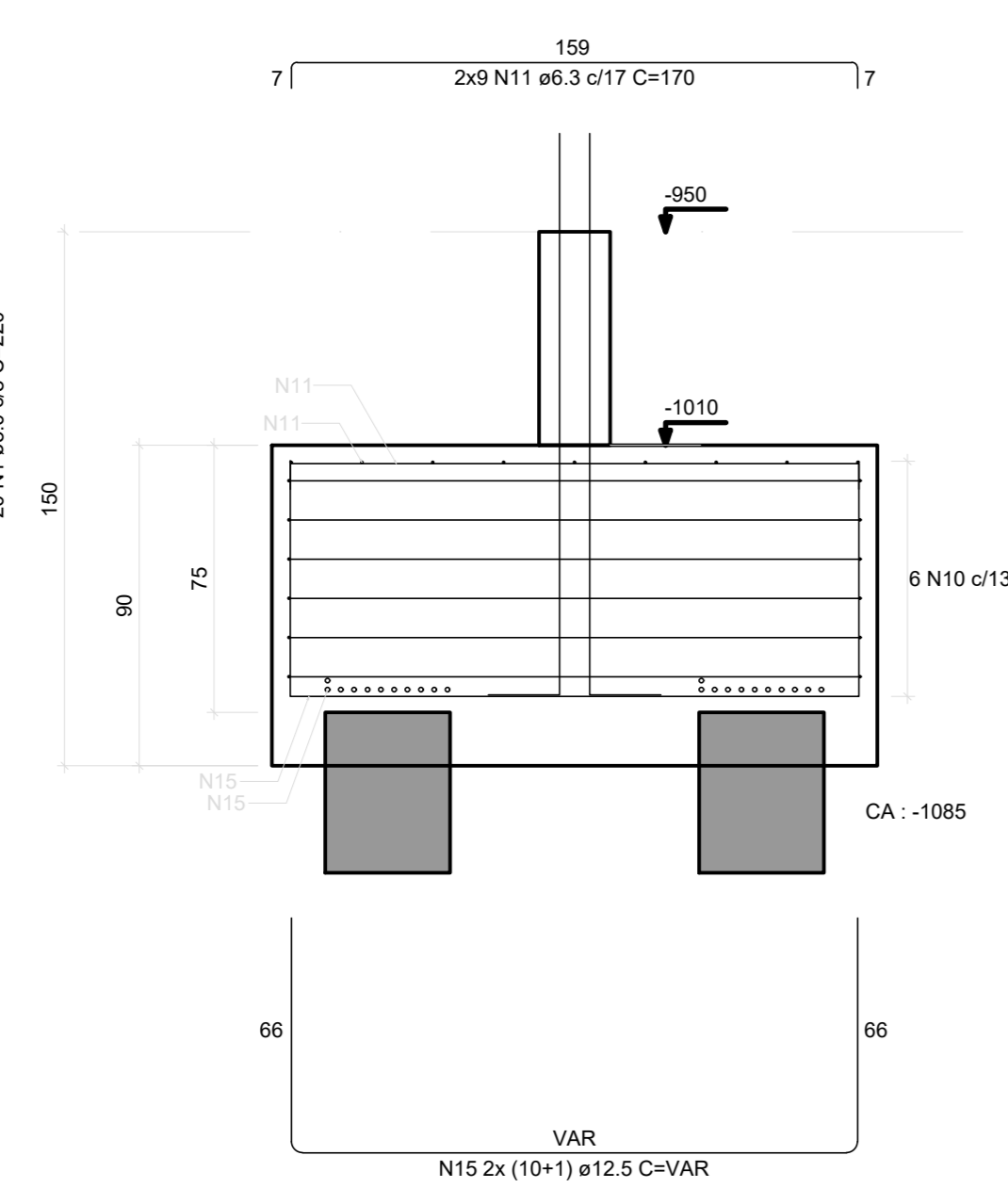
Volume de concreto (C-30) = 5.21 m³

Área de forma = 19.13 m²

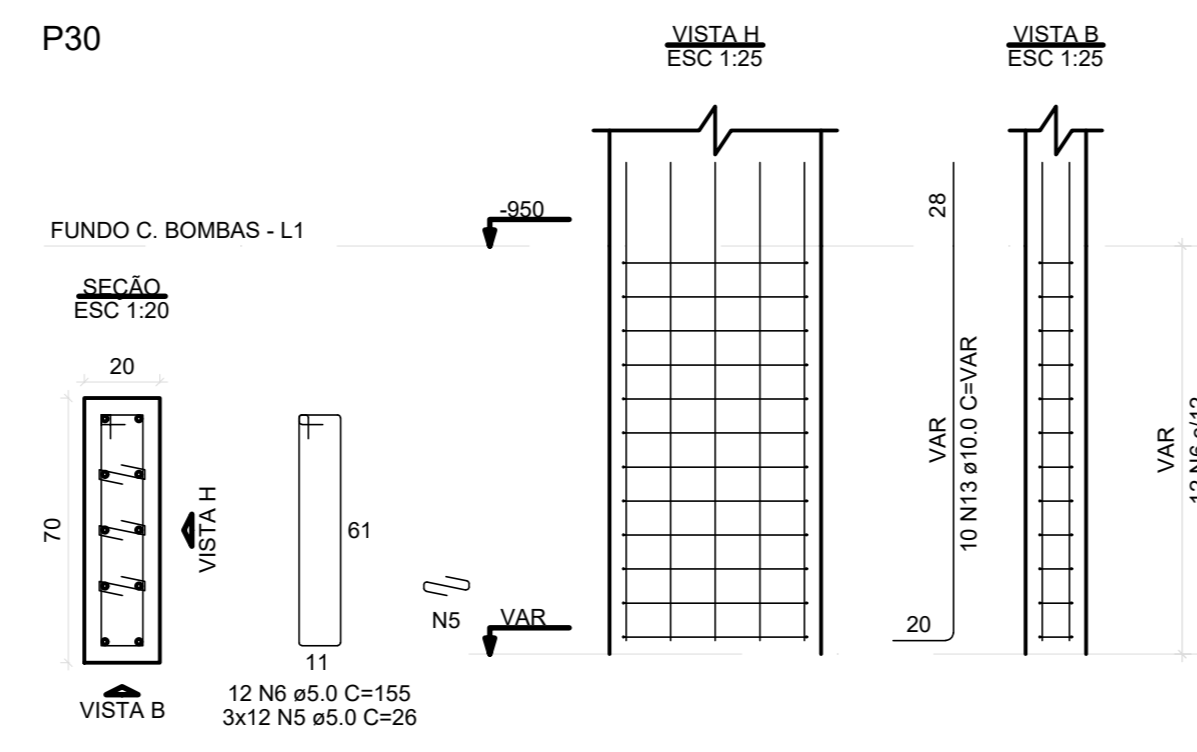
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4xC35  
PLANTA  
ESC 1:20



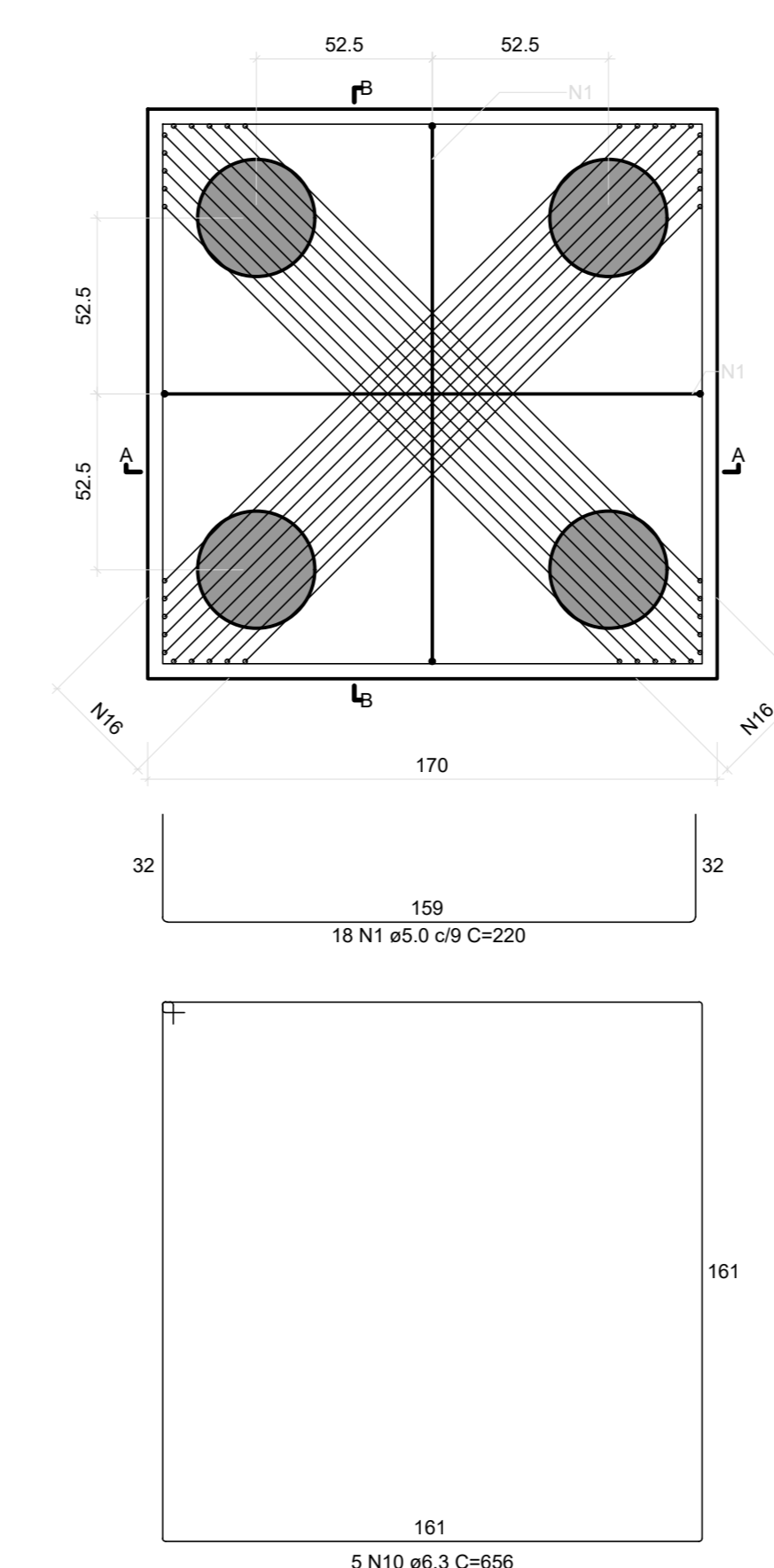
CORTE A-A = CORTE B-B  
ESC 1:20



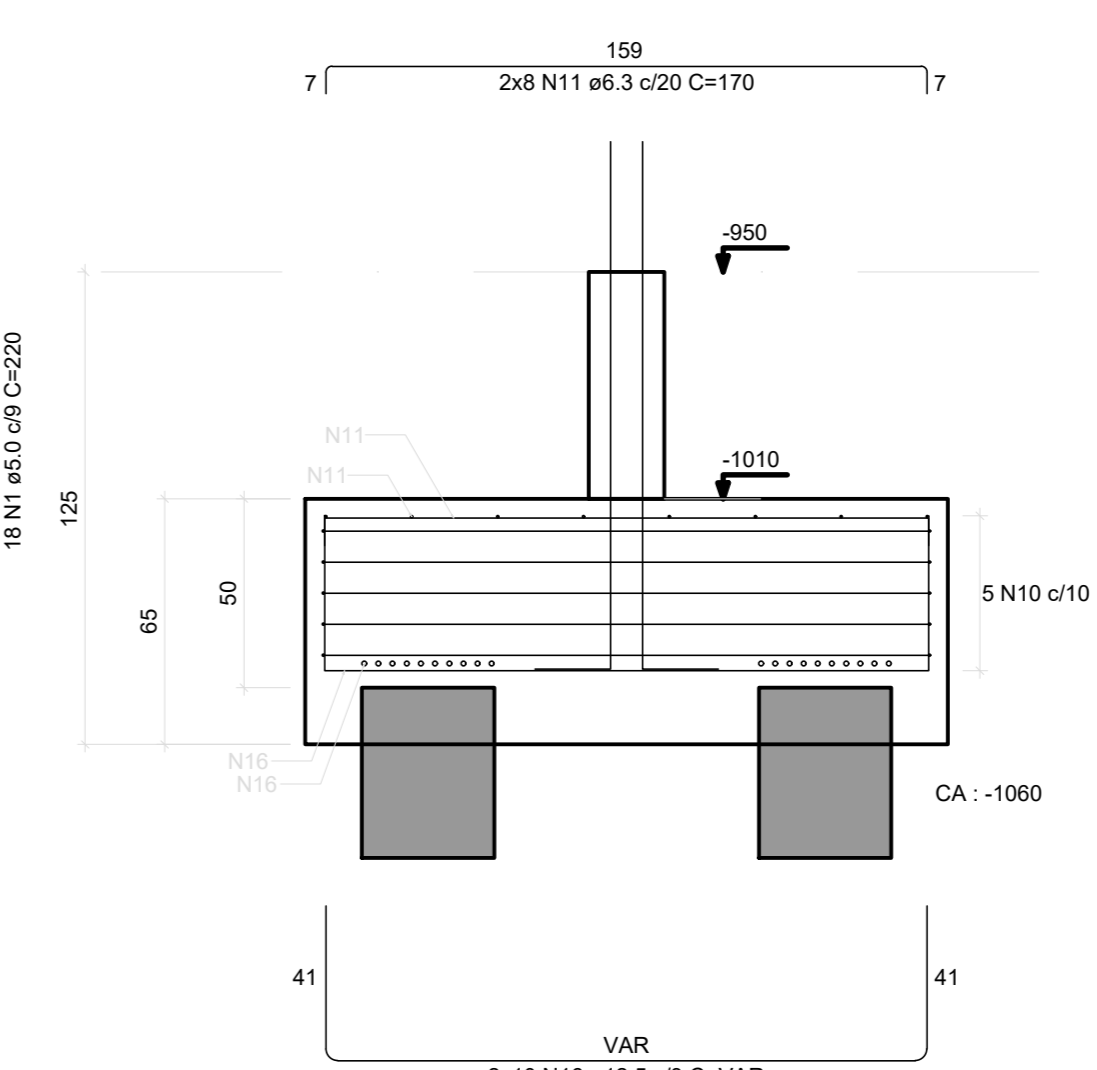
P30



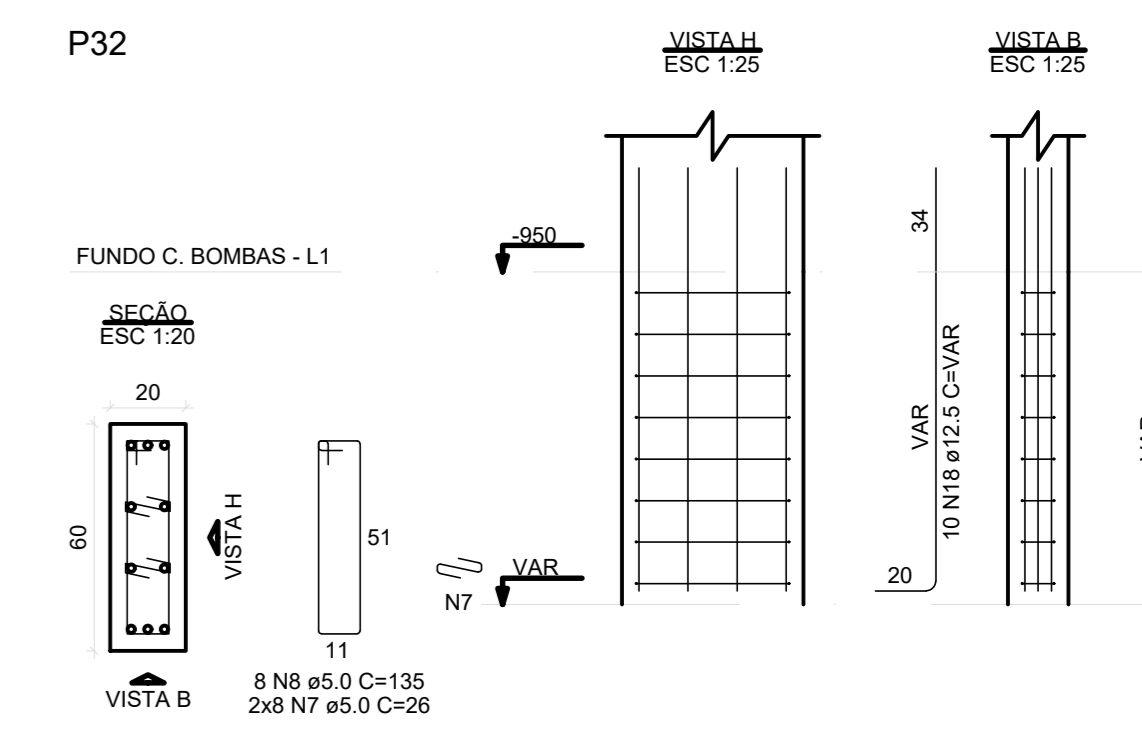
B32  
4xC35  
PLANTA  
ESC 1:20



CORTE A-A = CORTE B-B  
ESC 1:20



P32



Revisões da prancha

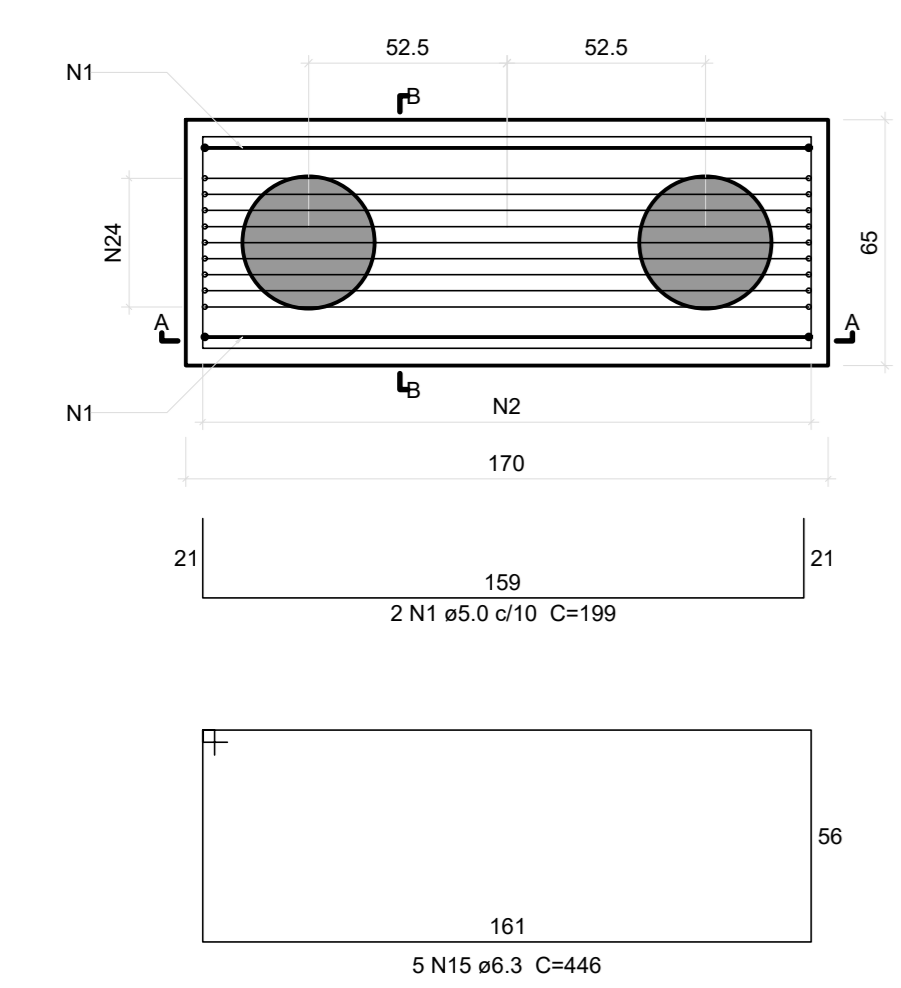
-			
-			
-			
-			

Emissão Inicial: LUIS F. 22/06/2022

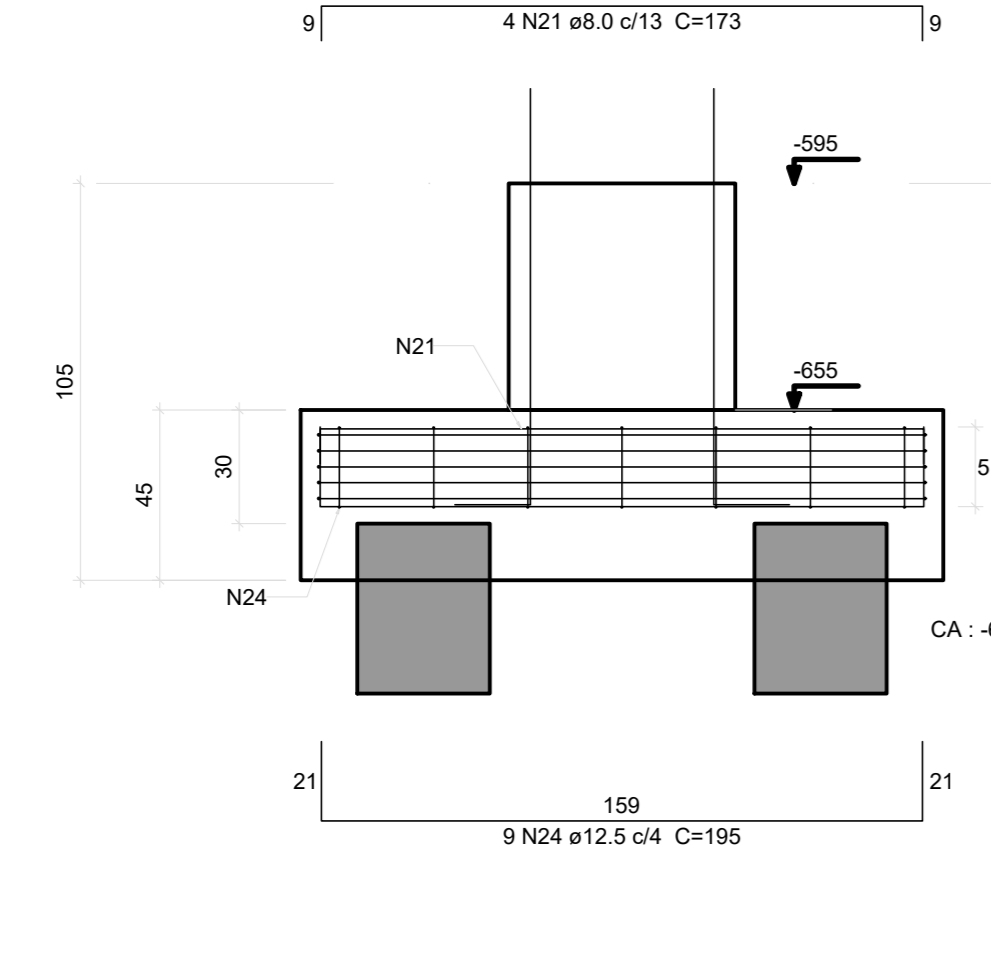
SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

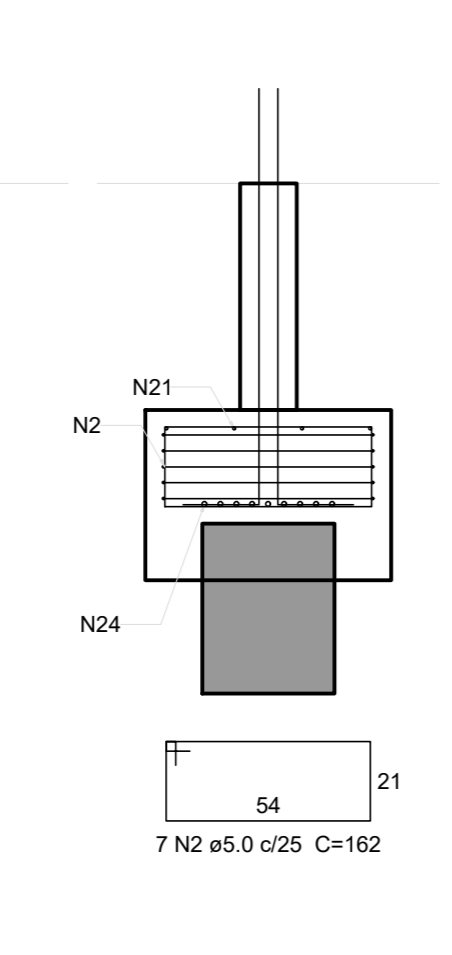
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2xC35  
PLANTA  
ESC 1:20



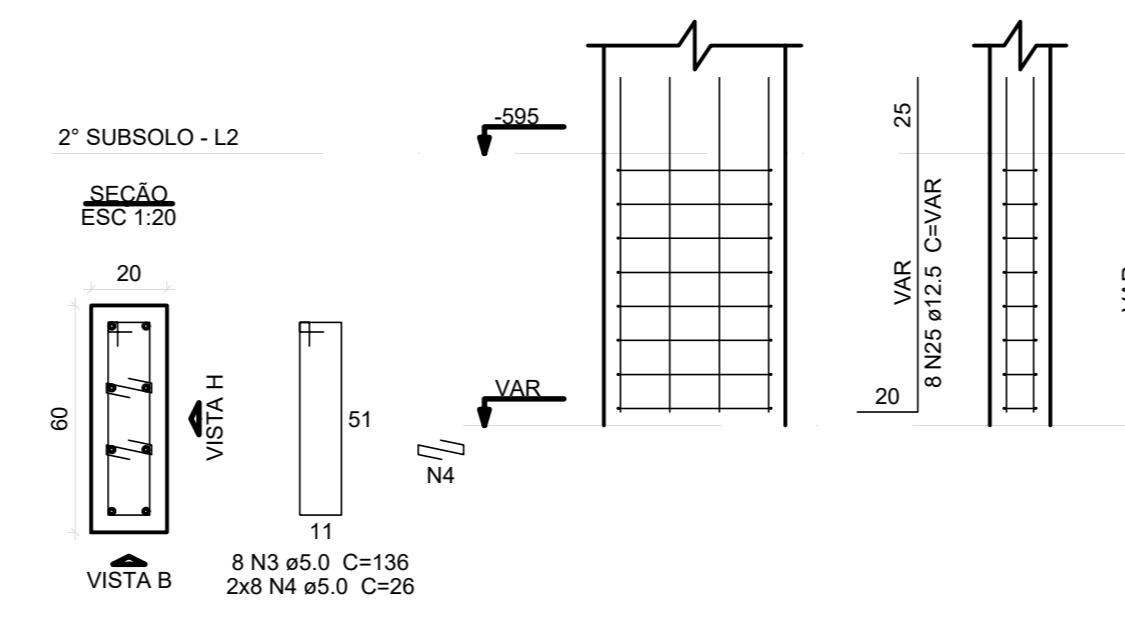
CORTE A-A  
ESC 1:20



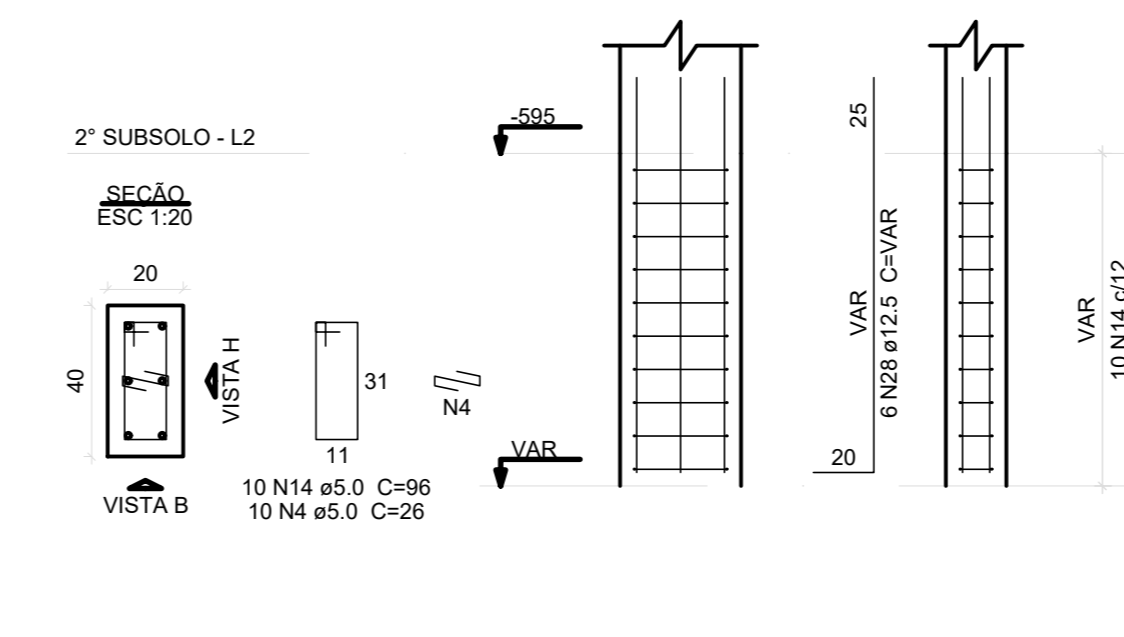
CORTE B-B  
ESC 1:20



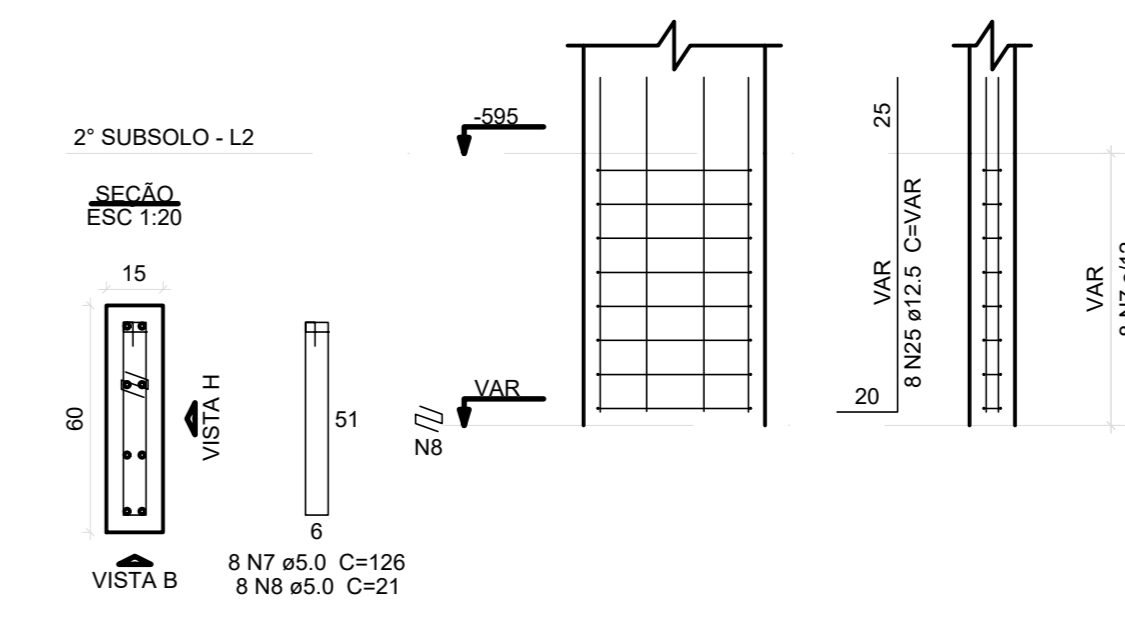
P1



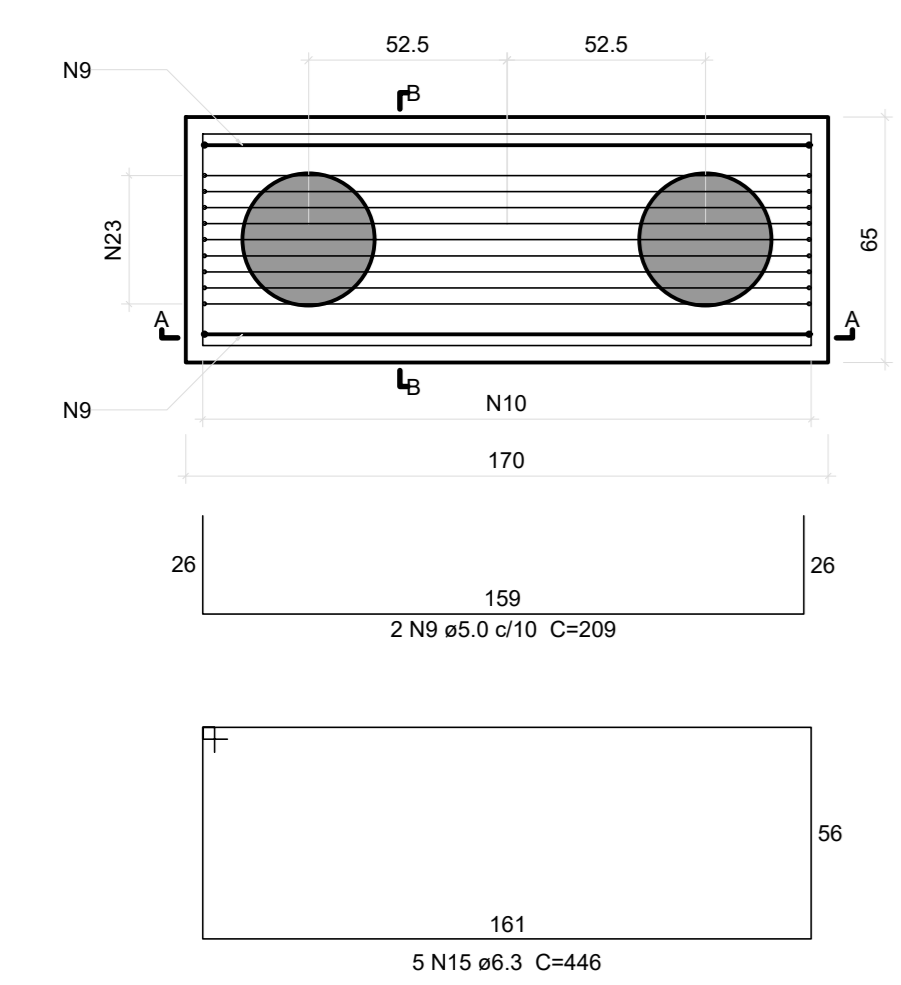
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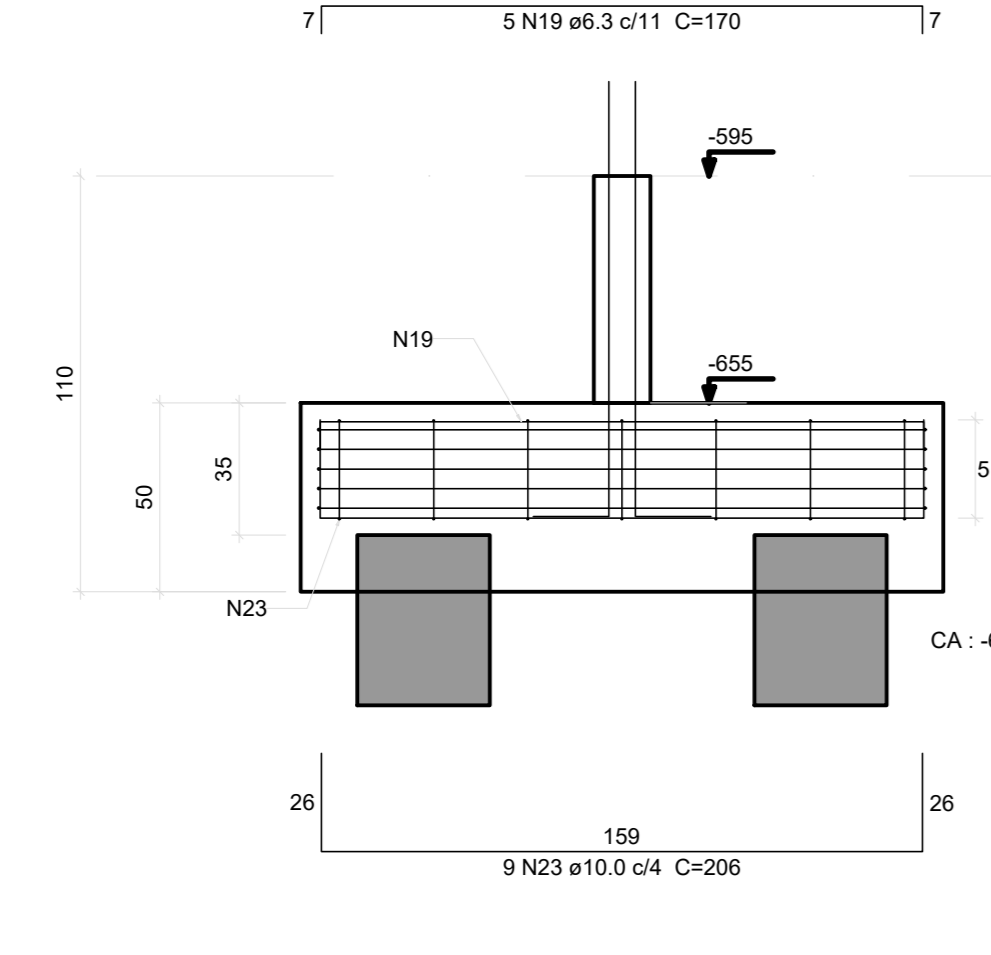
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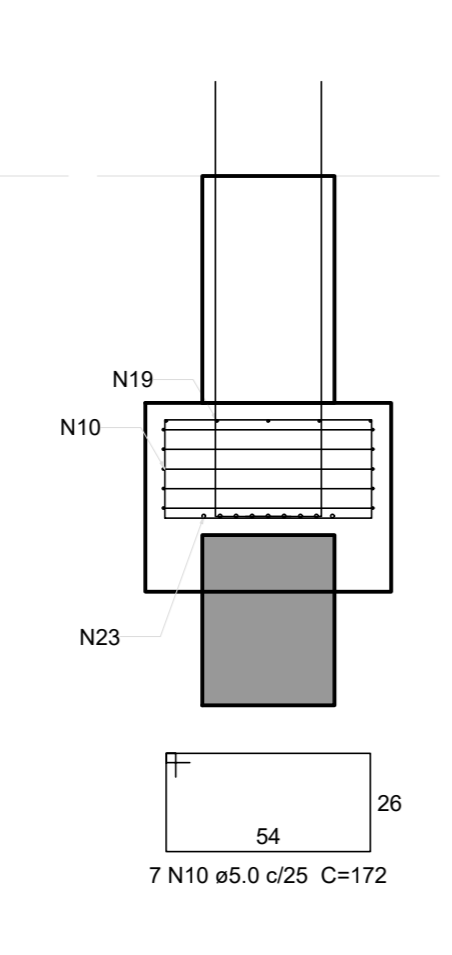
**B11=B12=B37**  
2xC35  
PLANTA  
ESC 1:20



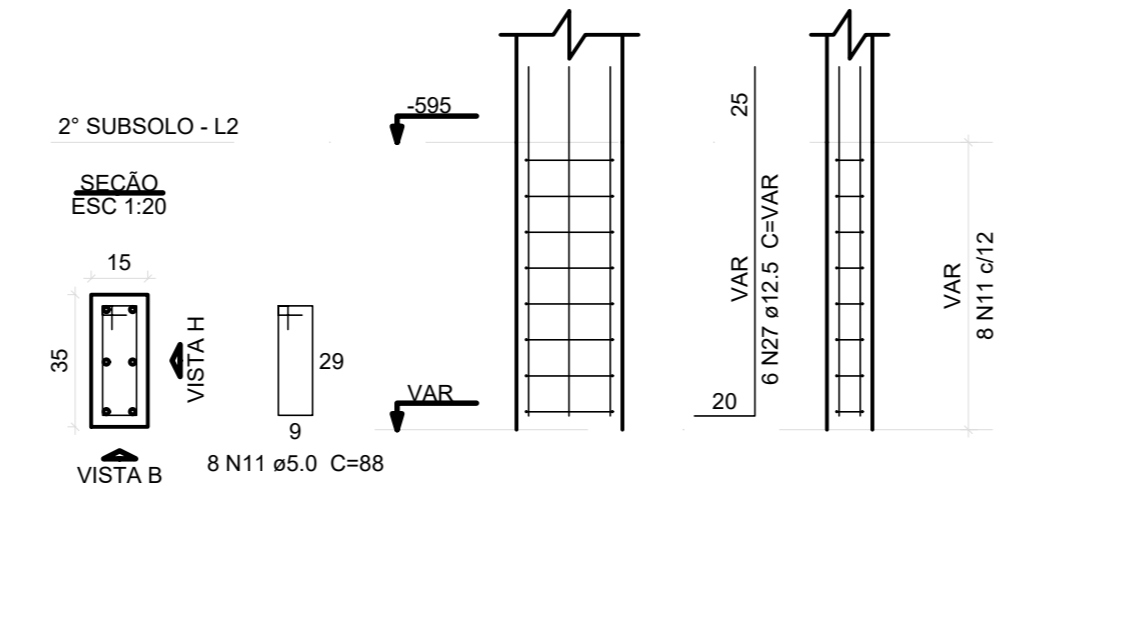
CORTE A-A  
ESC 1:20



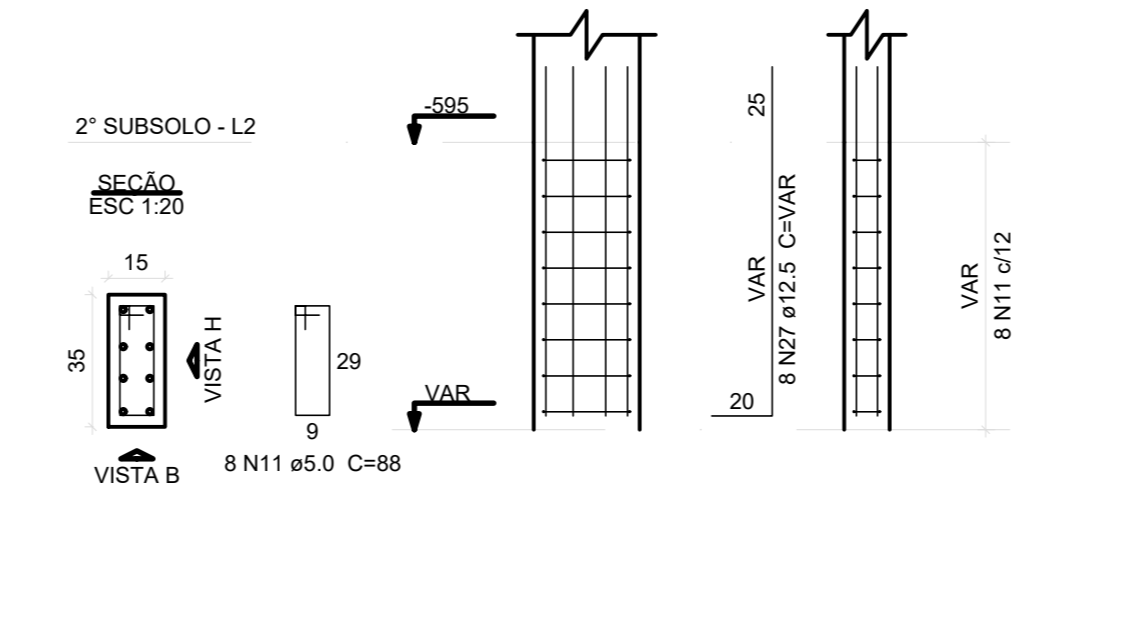
CORTE B-B  
ESC 1:20



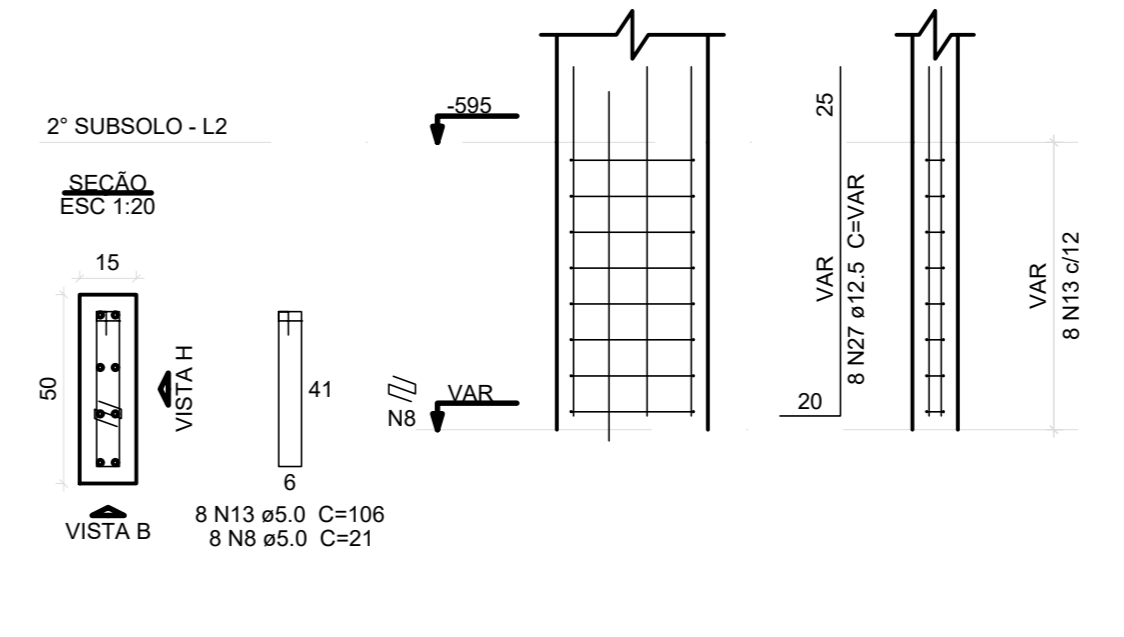
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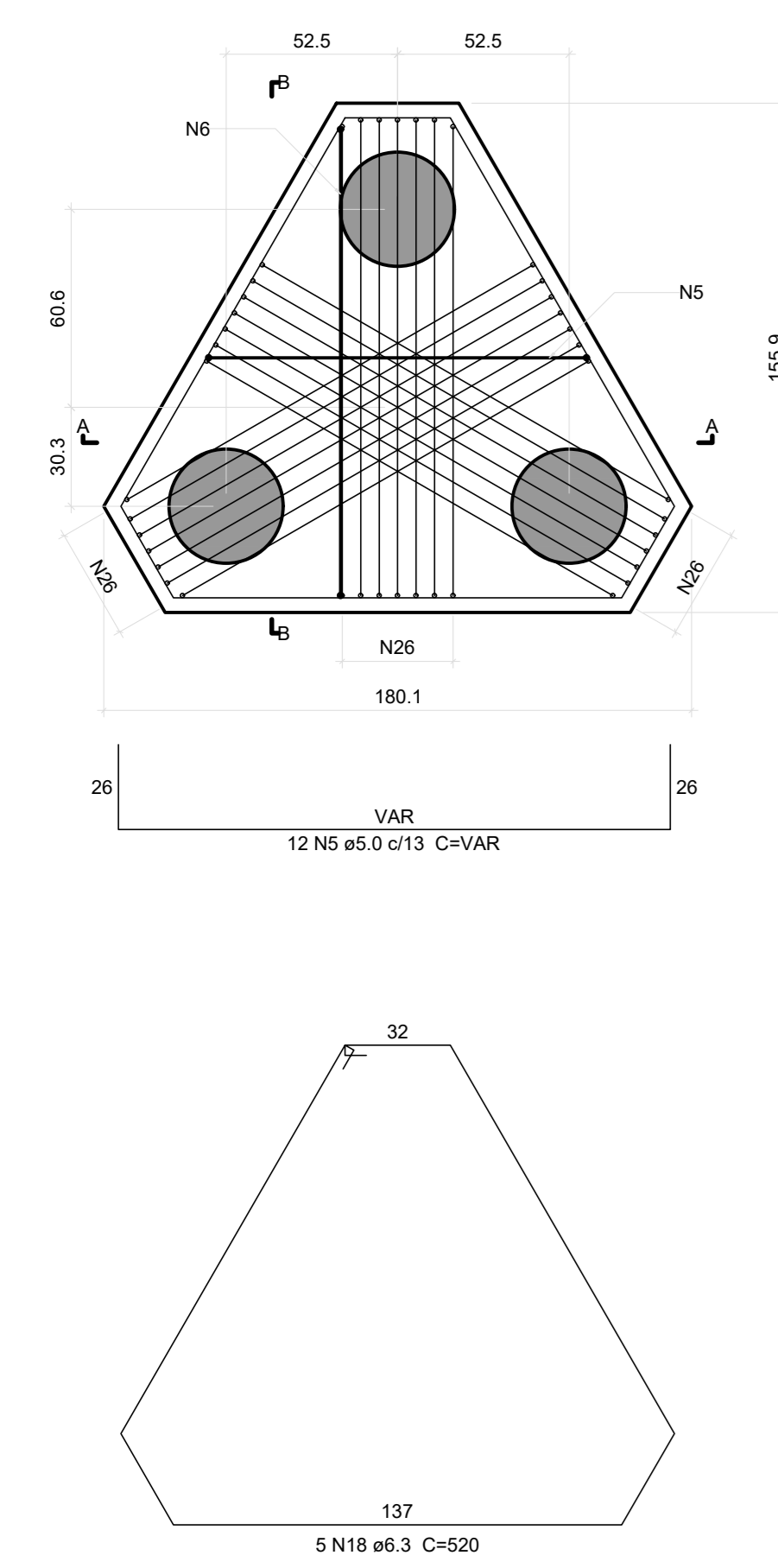
P12



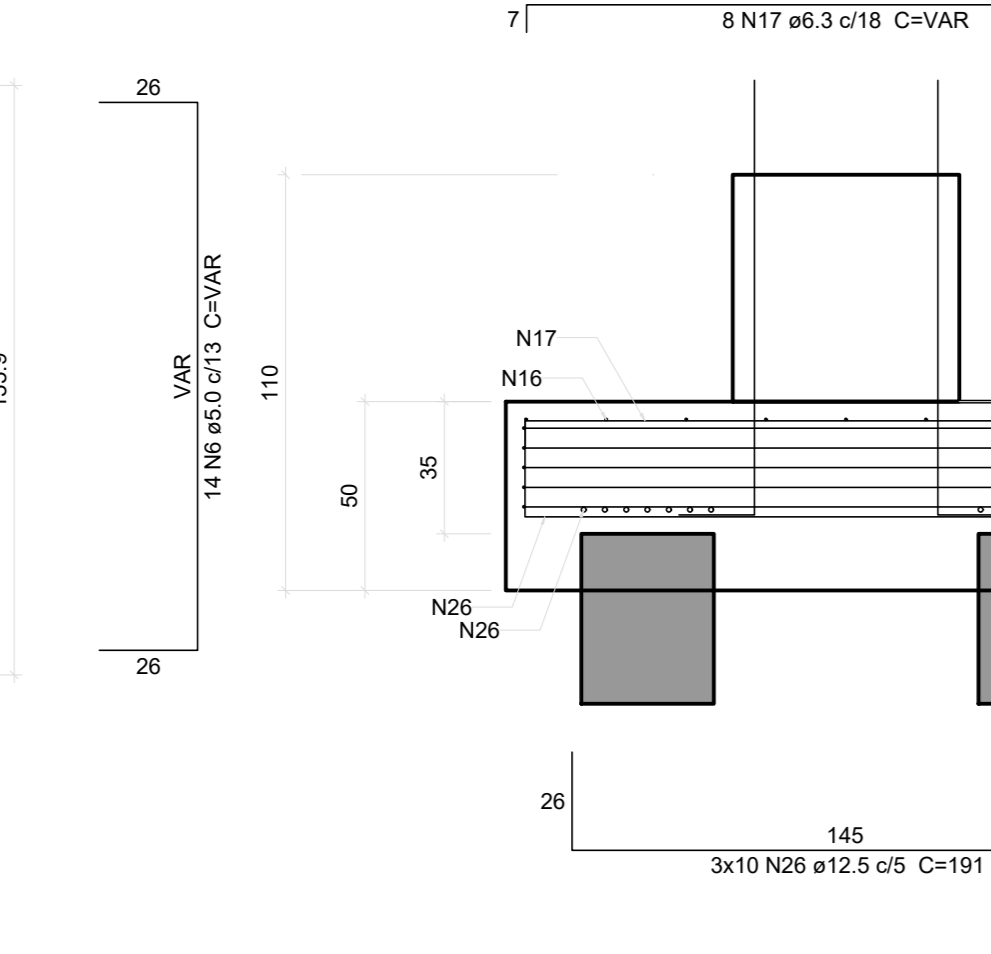
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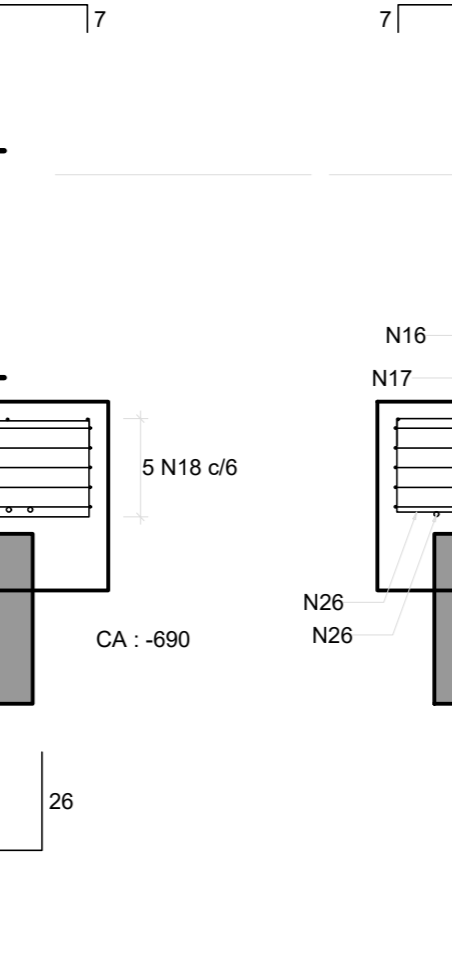
**B3=B4=B35=B36=B38**  
3xC35  
PLANTA  
ESC 1:20



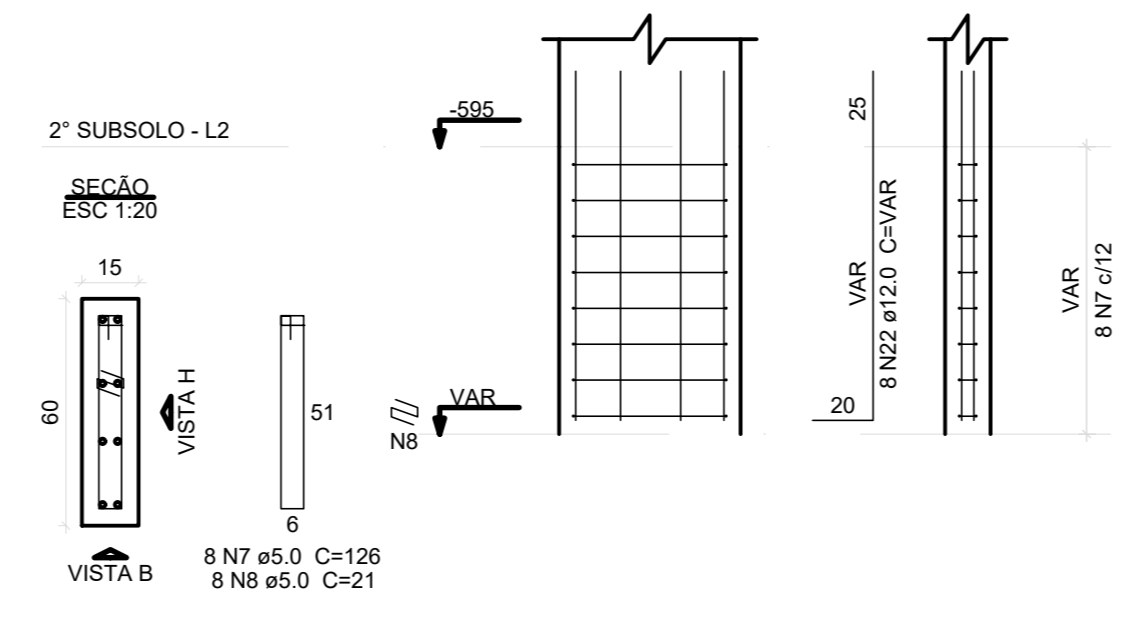
CORTE A-A  
ESC 1:20



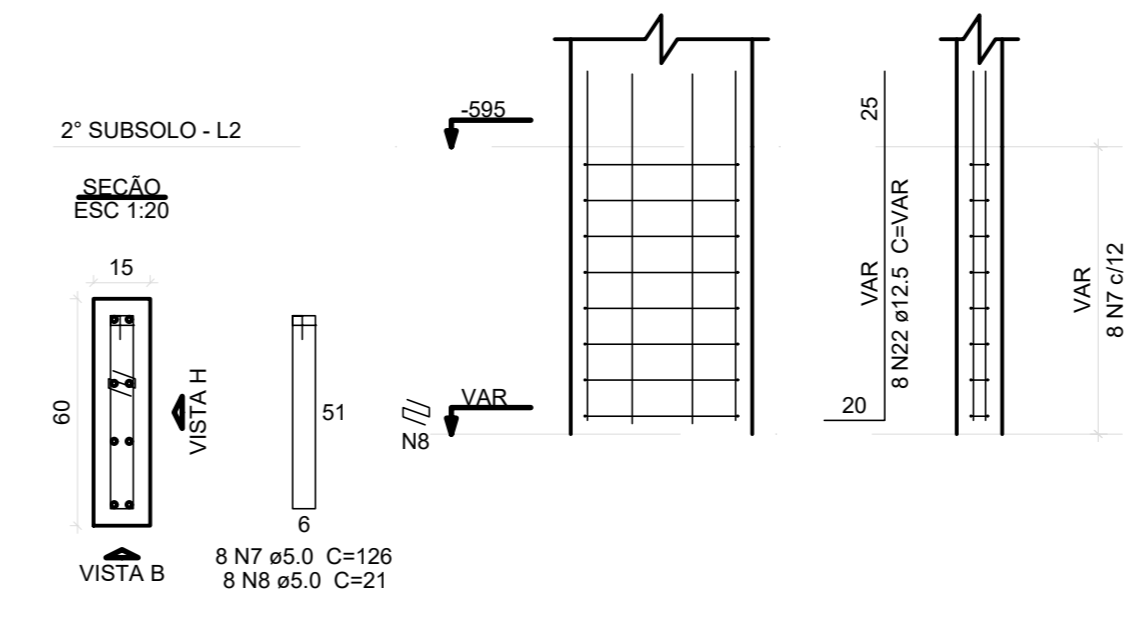
CORTE B-B  
ESC 1:20



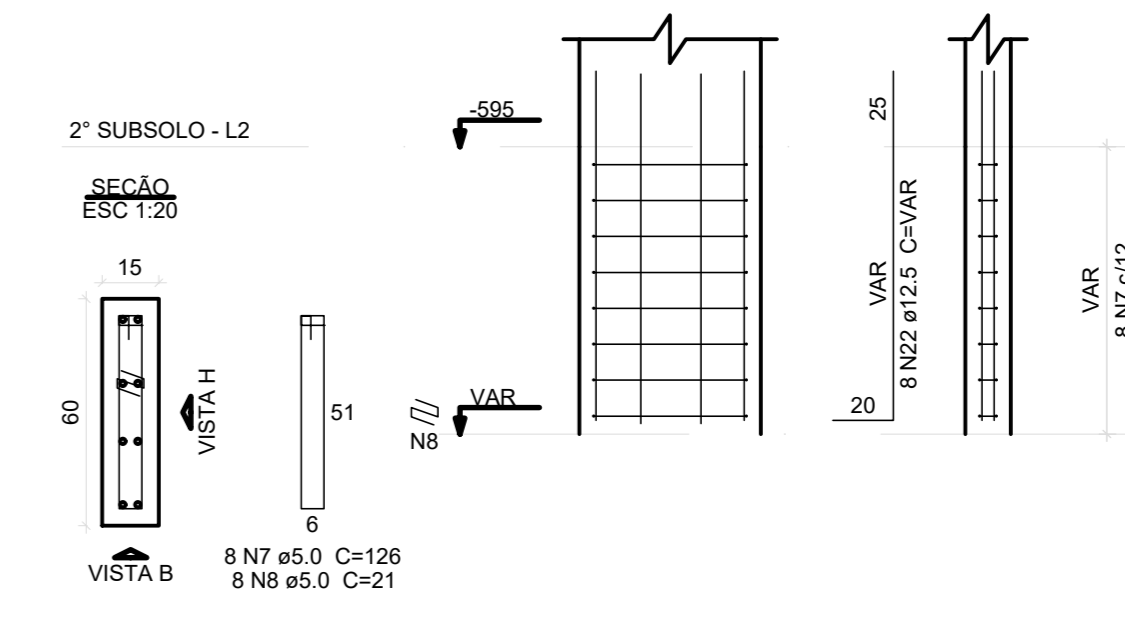
P3



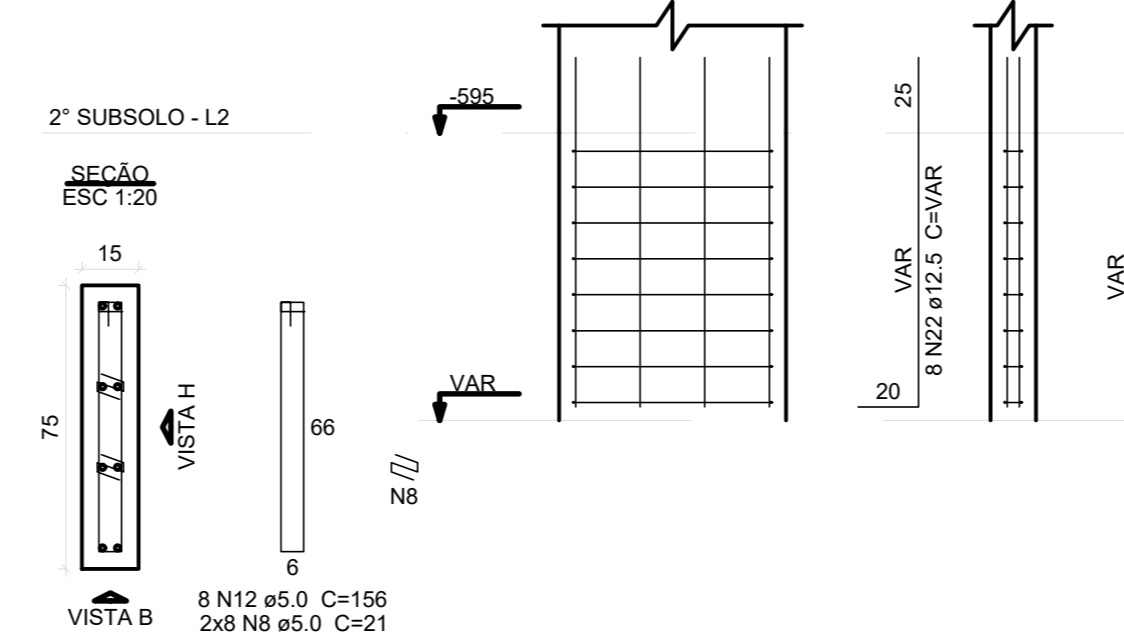
P4



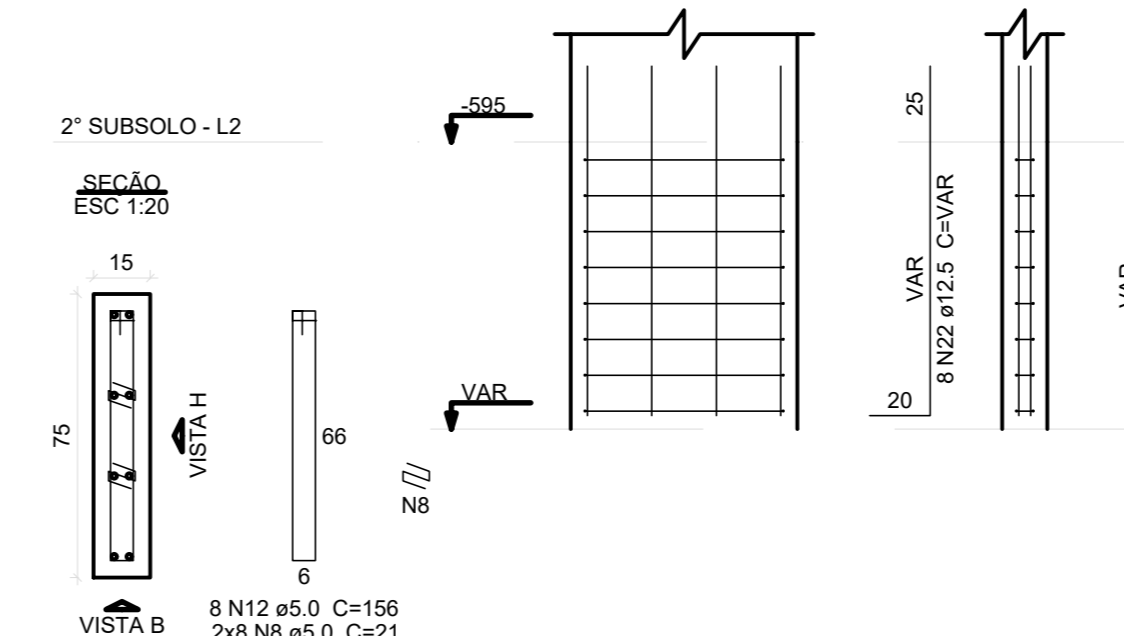
P35



P36



P38



CAO	N	DIAM (mm)	QUANT	CUNTA (cm)	C.TOTAL (cm)
CA60	1	5.0	6	199	1194
	2	5.0	21	162	3462
	3	5.0	8	136	1088
	4	5.0	26	28	676
	5	5.0	60	VAR	VAR
	6	5.0	70	VAR	VAR
	7	5.0	32	126	4032
	8	5.0	72	21	1512
	9	5.0	6	209	1254
	10	5.0	21	172	3612
	11	5.0	16	88	1408
	12	5.0	16	156	2496
	13	5.0	8	106	848
	14	5.0	10	96	960
	15	6.3	30	446	13380
	16	6.3	45	VAR	VAR
	17	6.3	40	VAR	VAR
	18	6.3	25	520	13000
	19	6.3	15	170	2550
	20	8.0	4	169	676
	21	8.0	8	173	1384
	22	12.5	40	VAR	VAR
	23	10.0	27	206	5562
	24	12.5	27	165	5295
	25	12.5	16	VAR	VAR
	26	12.5	150	191	28500
	27	12.5	28	VAR	VAR
	28	12.5	6	VAR	VAR

**Resumo do aço**

CAO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	4313.5	116.2
	8.0	20.6	8.9
	10.0	101.2	68.6
	12.5	392.3	415.7
CA60	5.0	486.3	82.5
CA50		609.4	
CA60		82.5	

Volume de concreto (C-30) = 7.02 m³  
Área de forma = 37.37 m²

Revisões da prancha

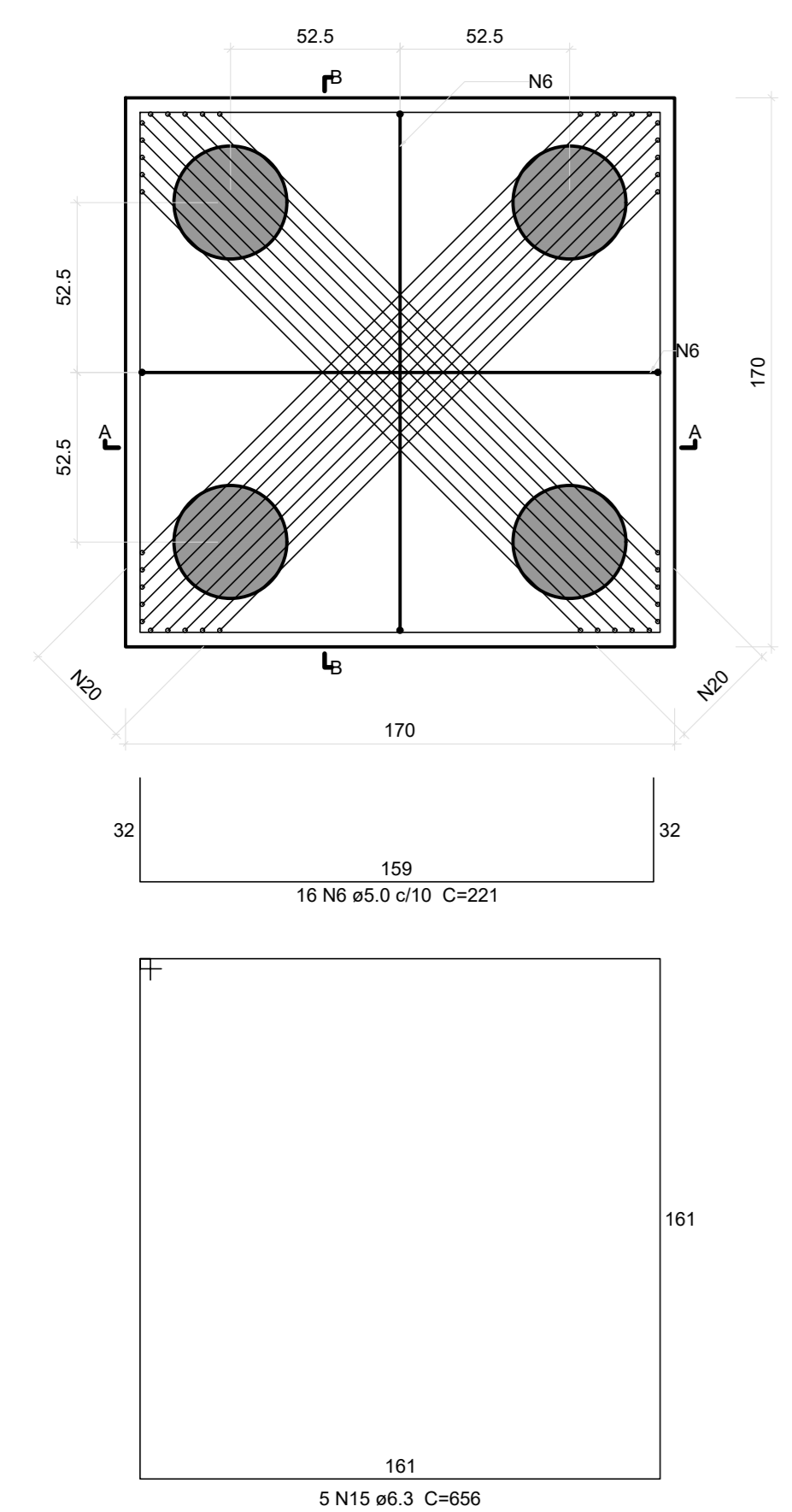
1			
2			
3			
4			

Emissão Inicial: LUIS F. 22/06/2022

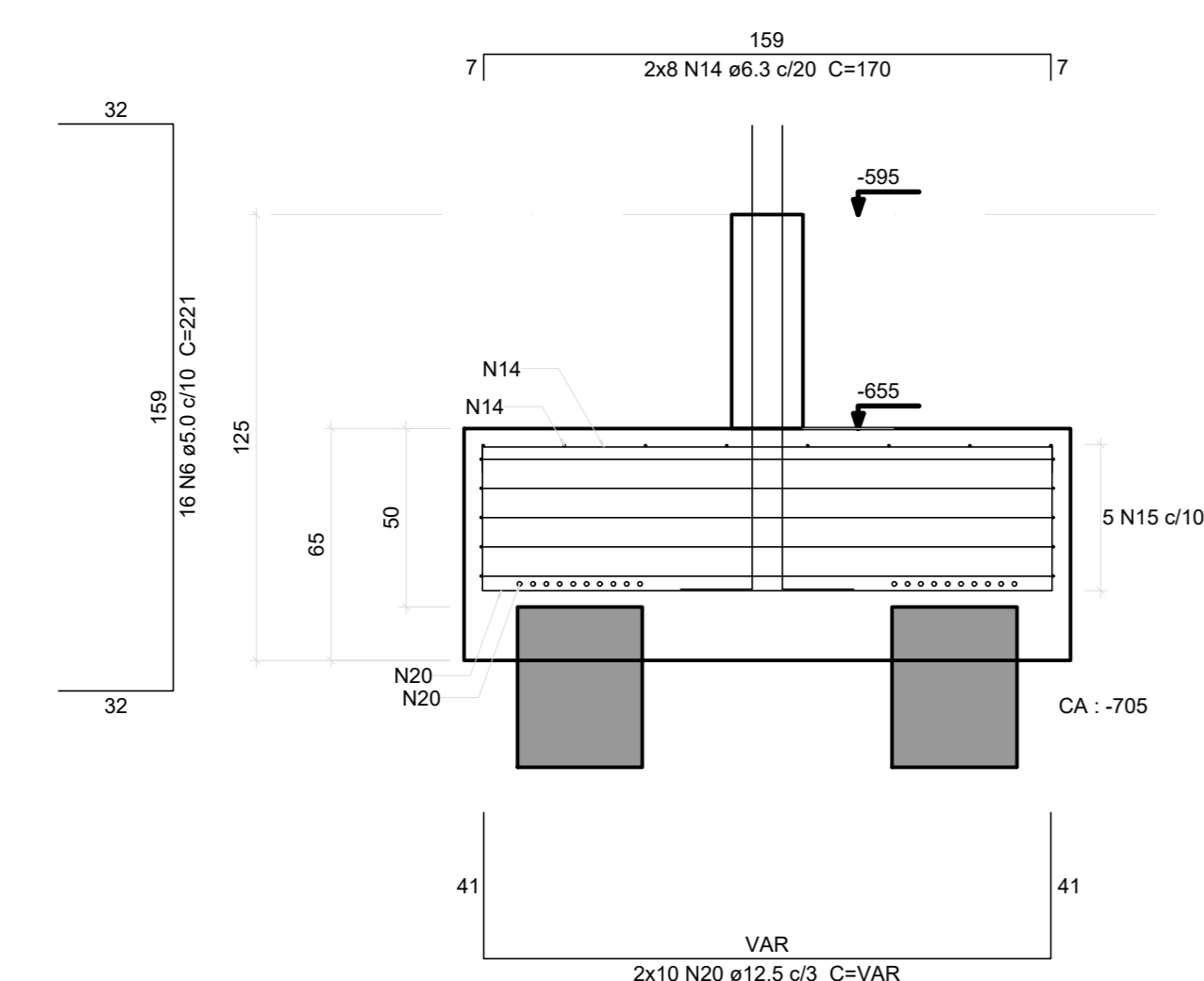
SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
RESP. TÉCNICO \_\_\_\_\_

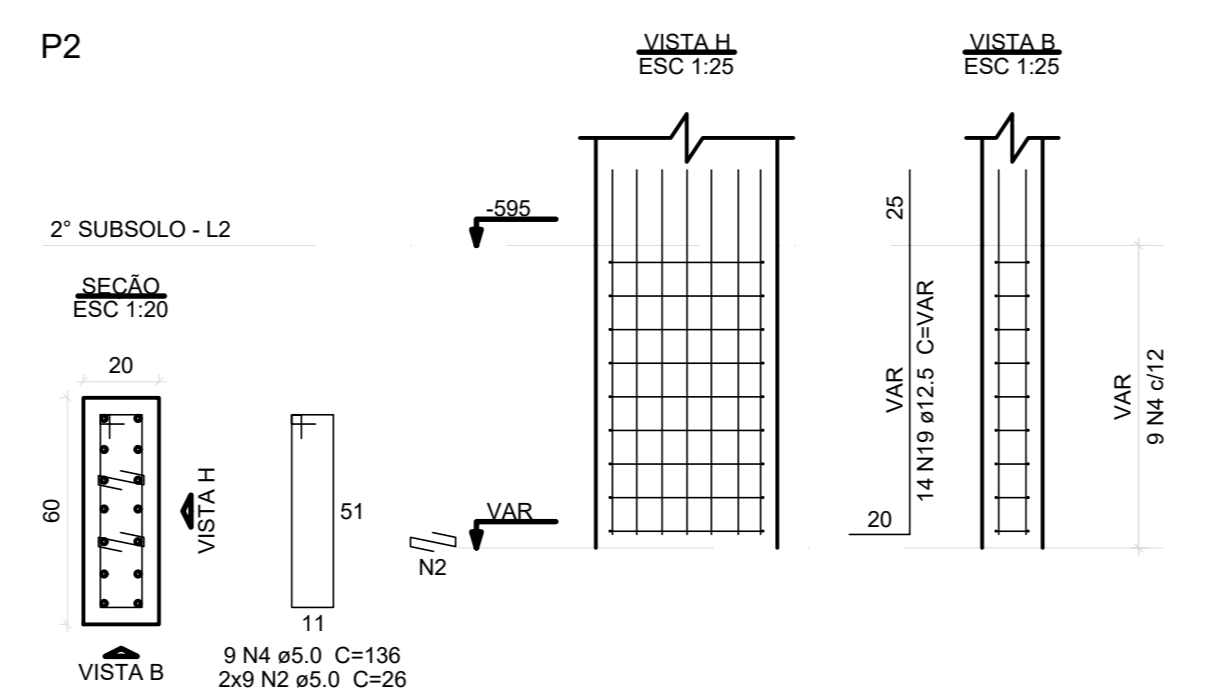
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4xC35  
PLANTA  
ESC 1:20



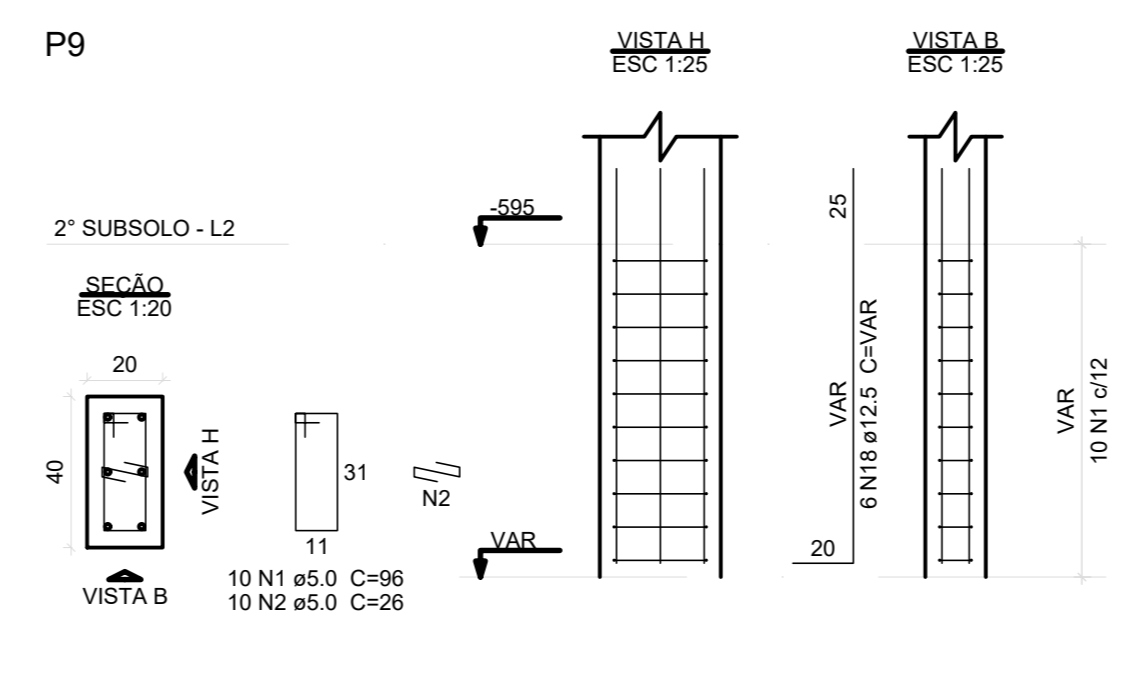
CORTE AA - CORTE B-B  
ESC 1:20



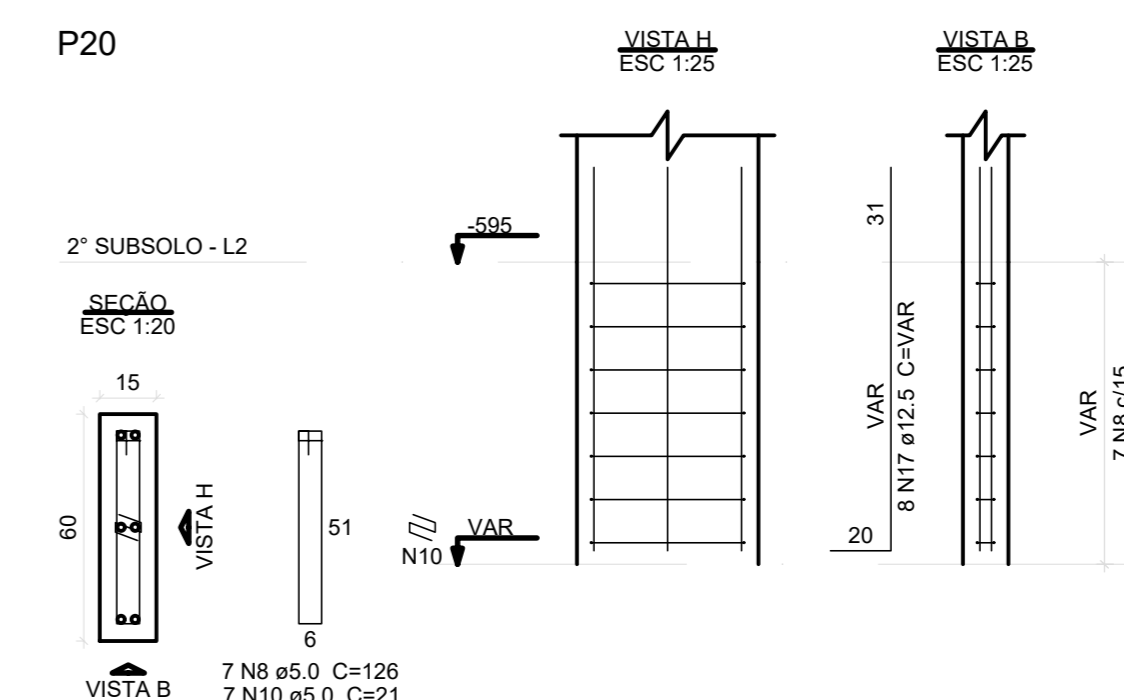
P2



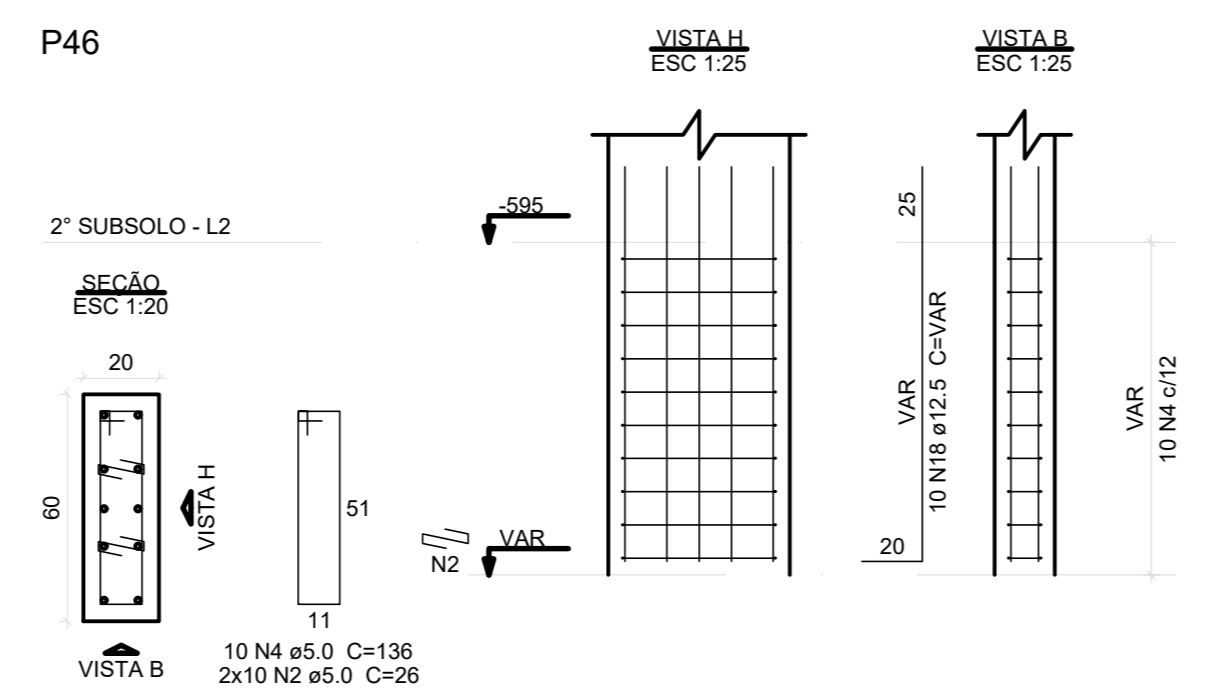
P9



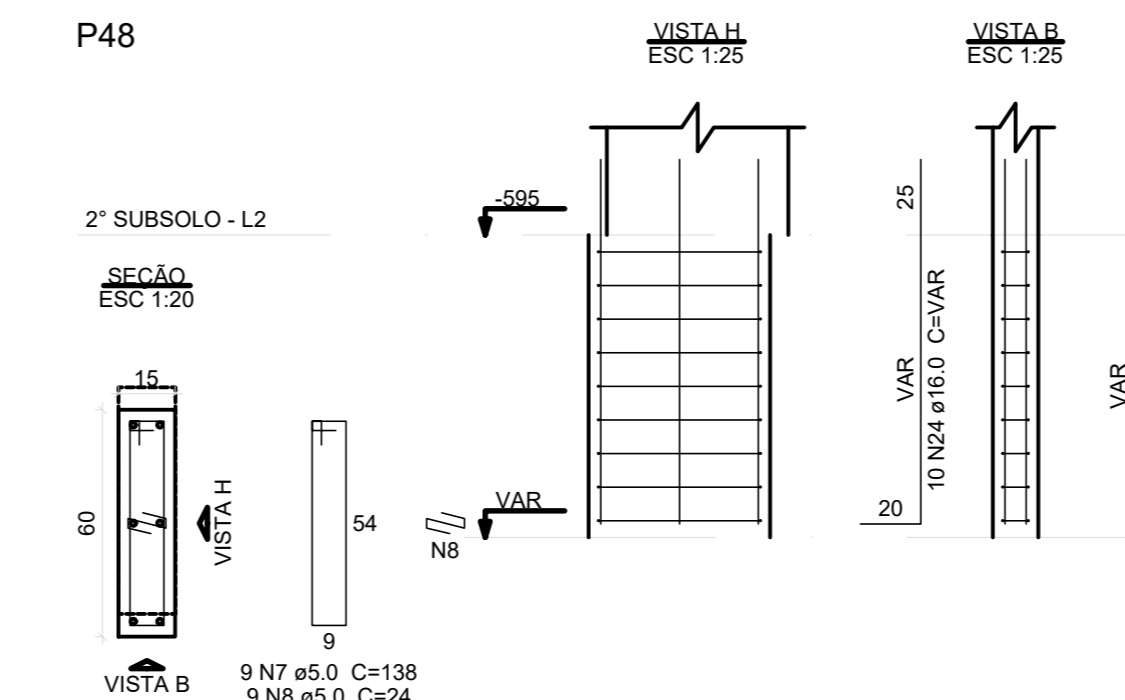
P20



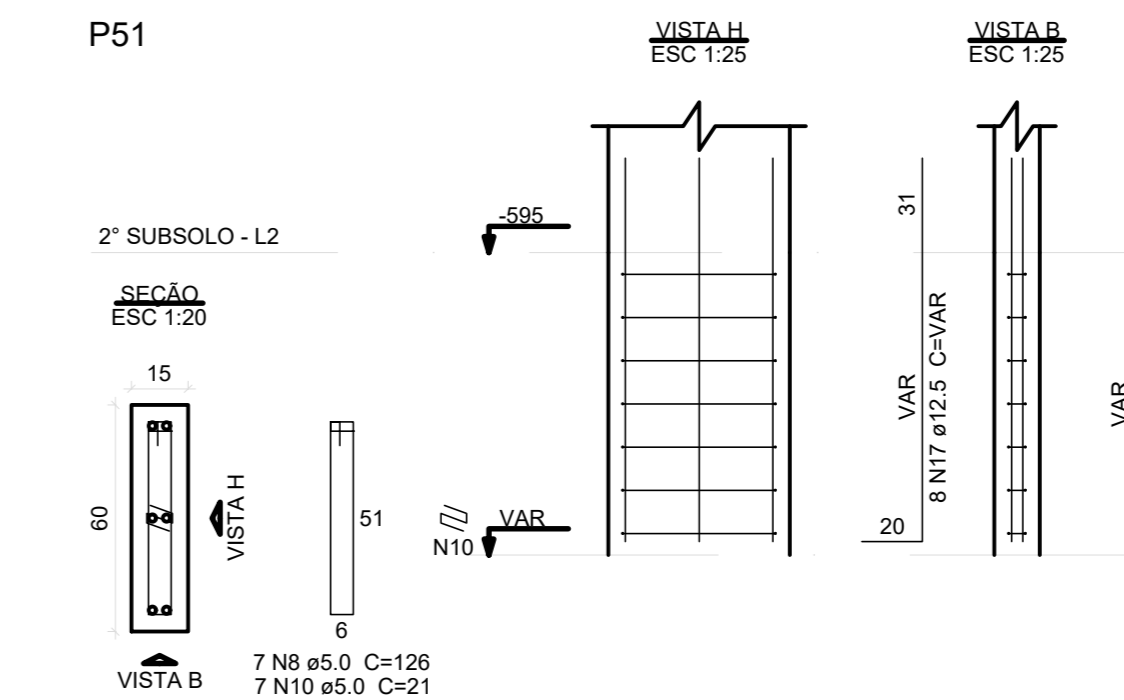
P46



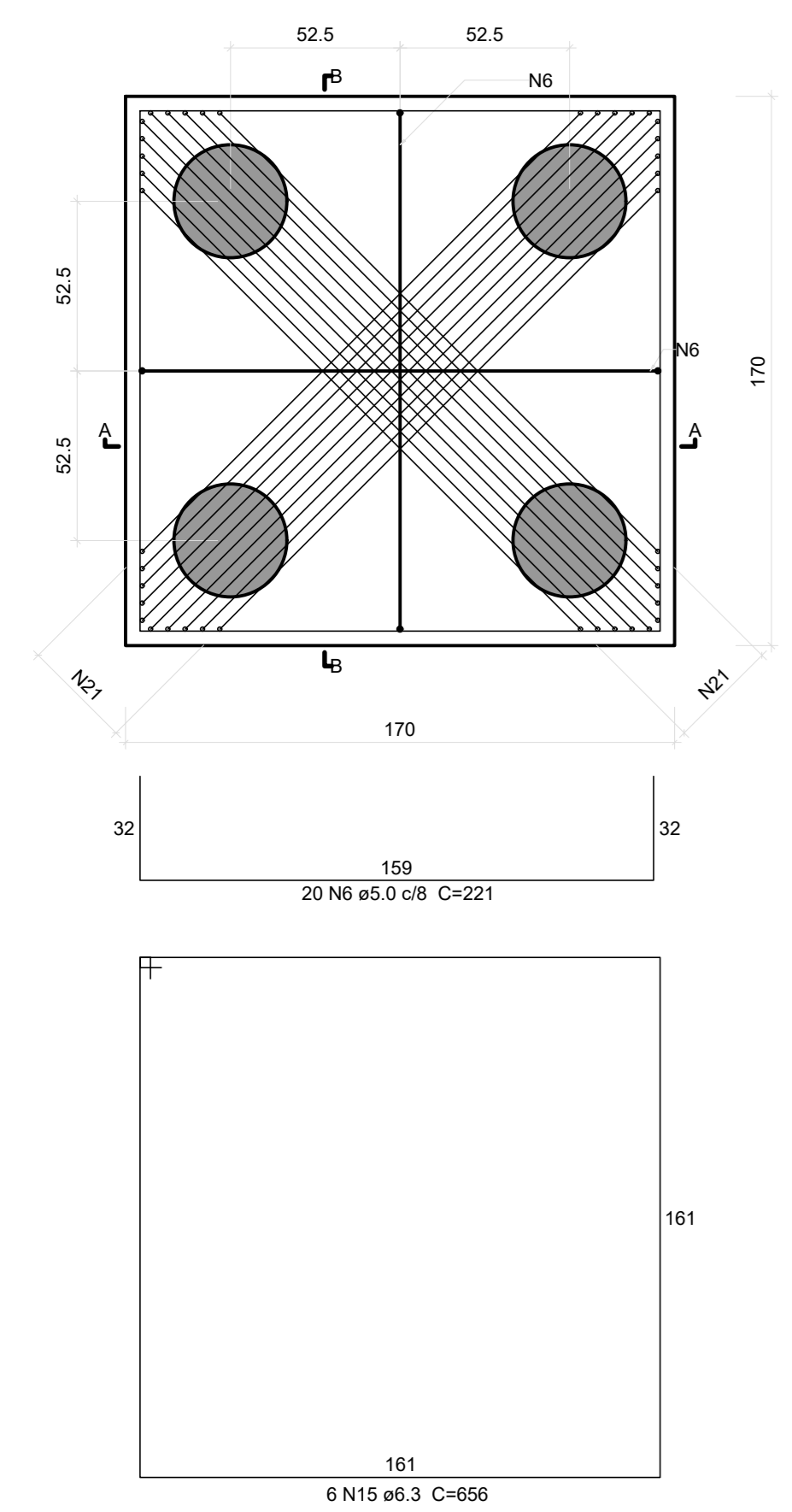
P48



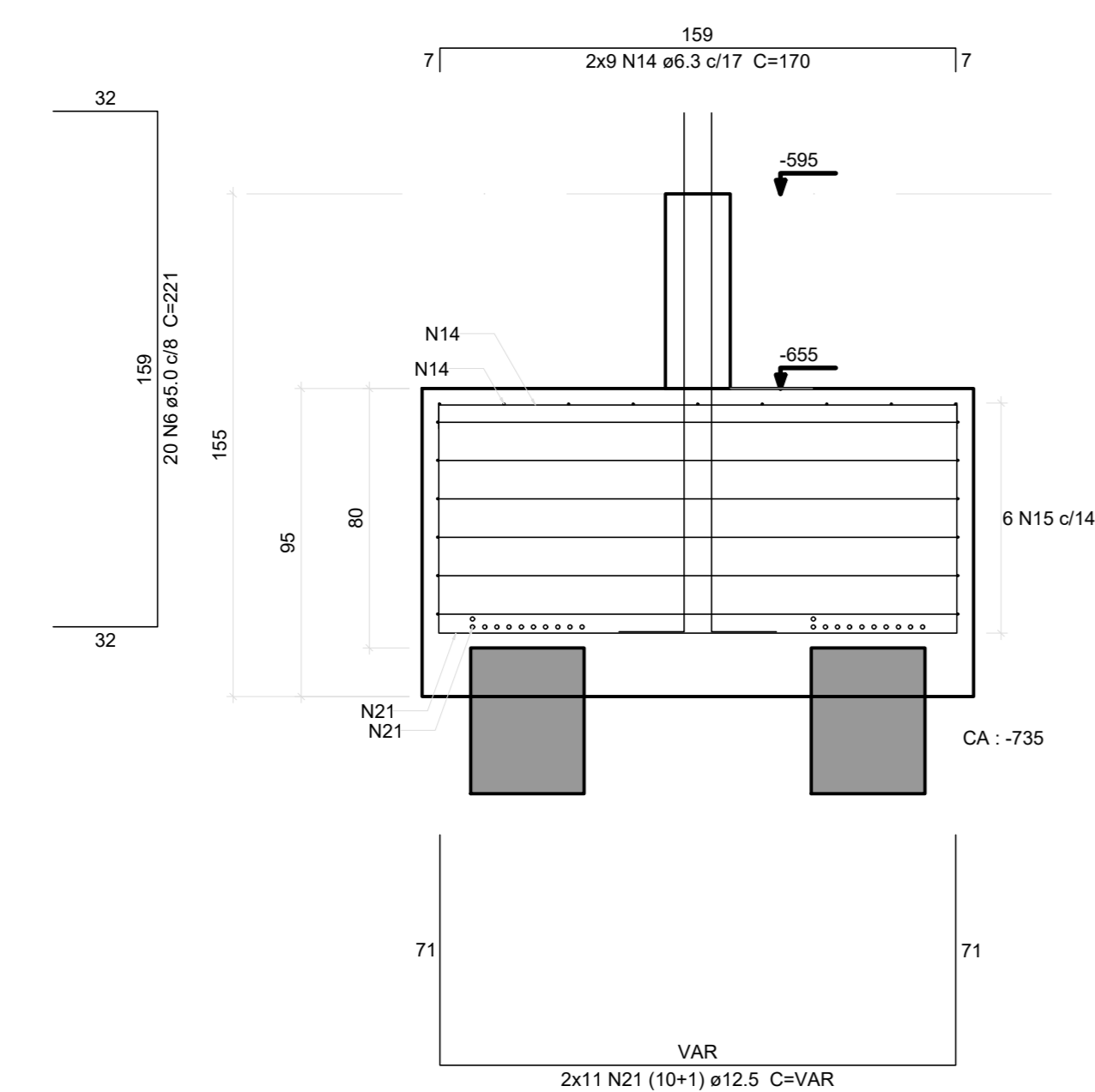
P51



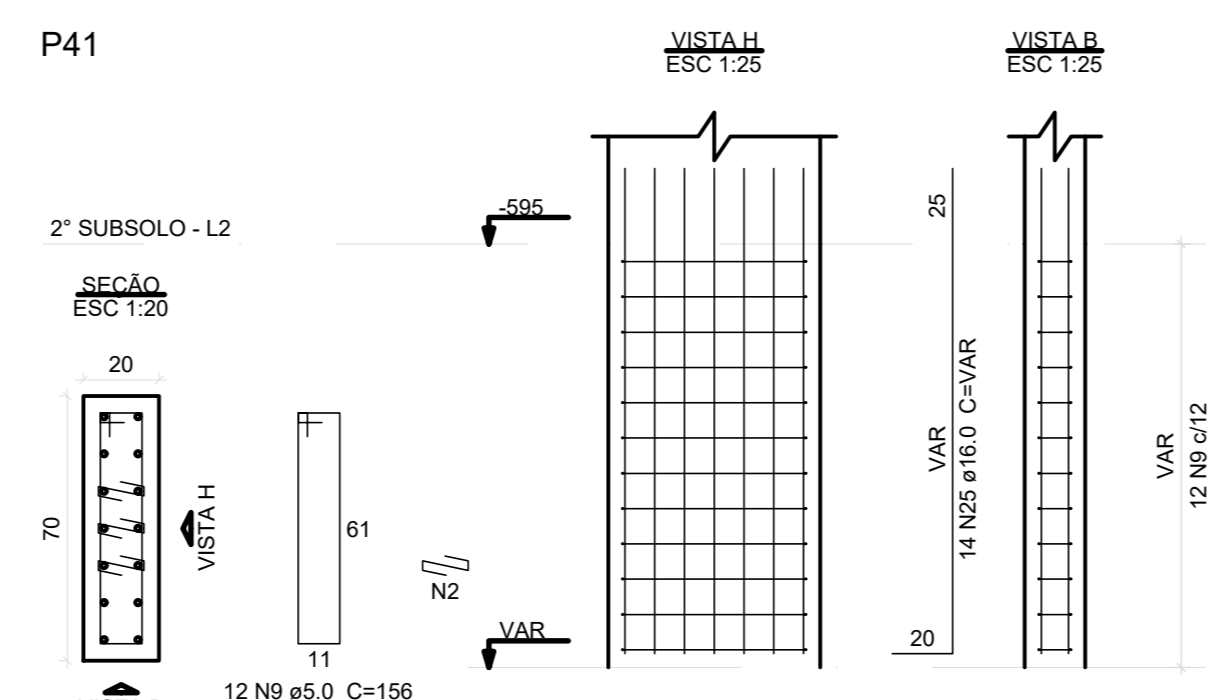
B41  
4xC35  
PLANTA  
ESC 1:20



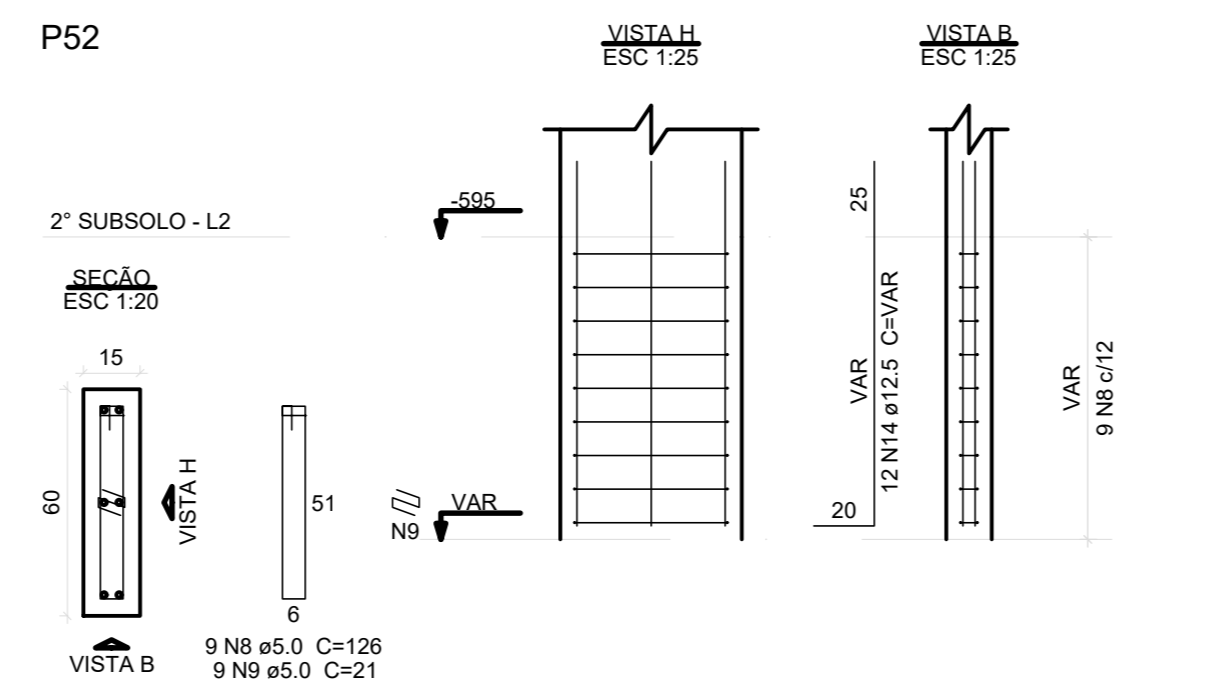
CORTE AA - CORTE B-B  
ESC 1:20



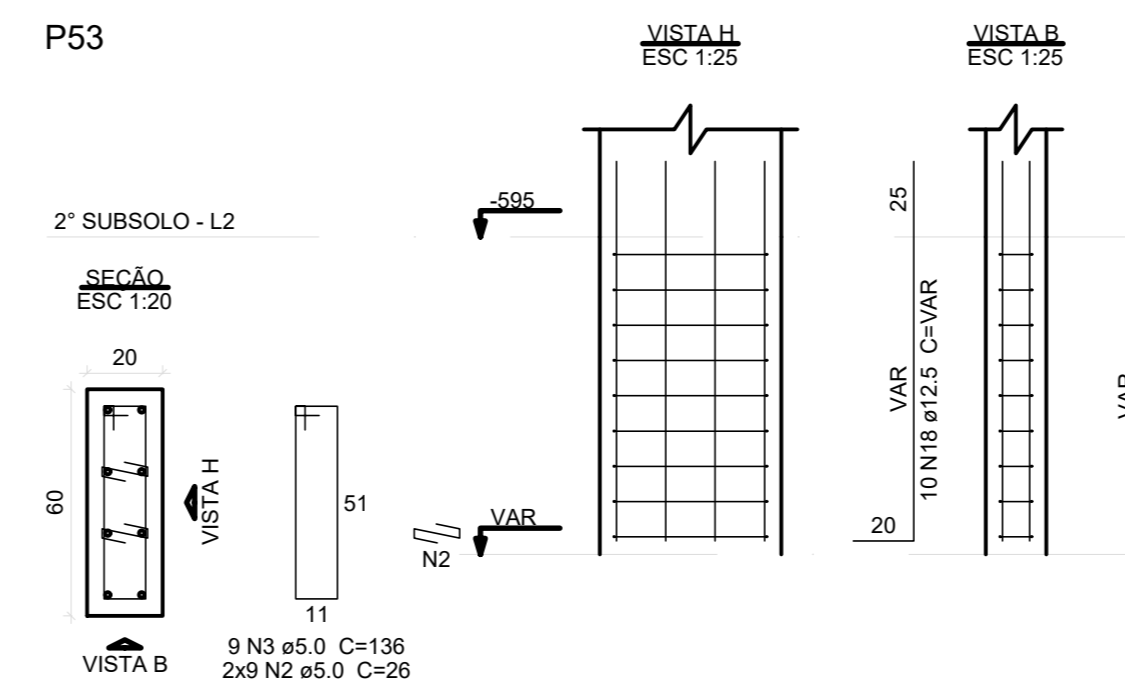
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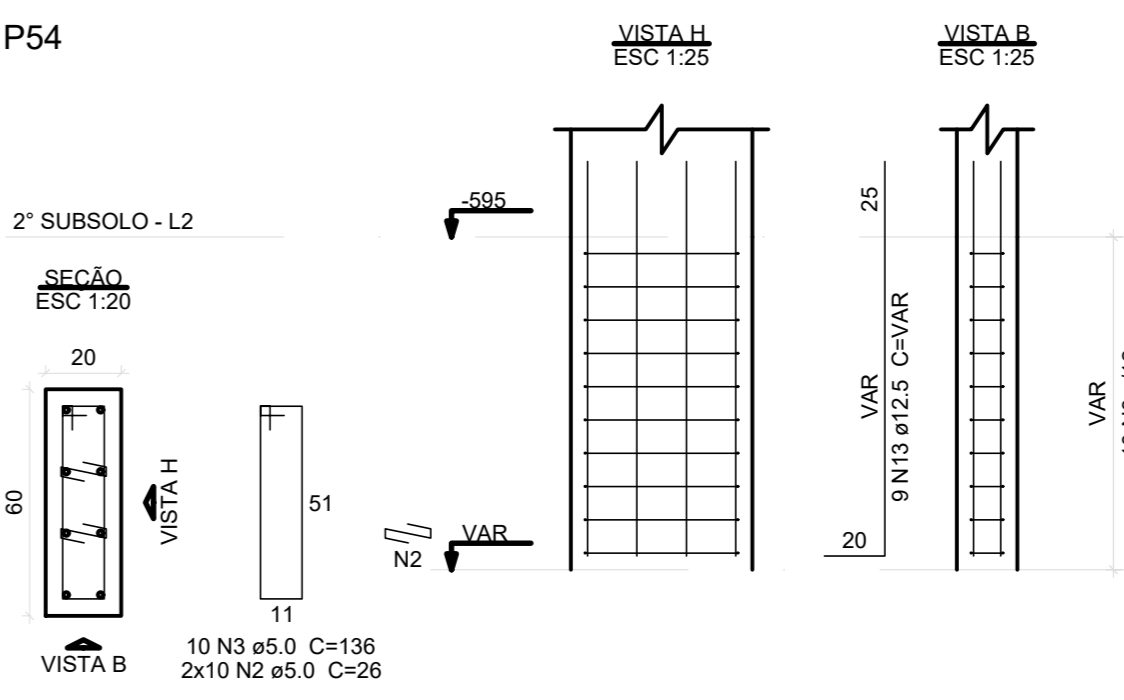
P52



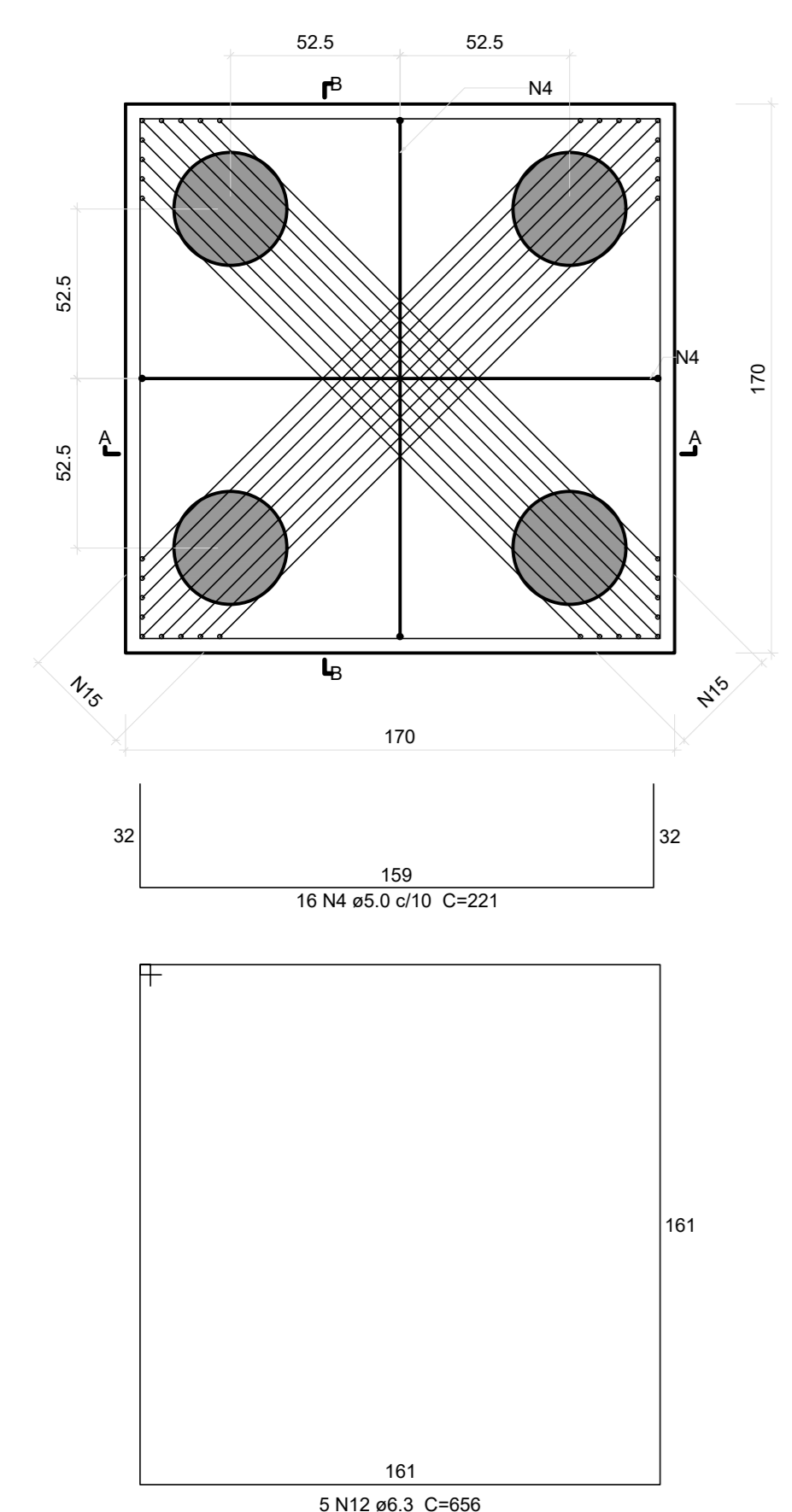
P53



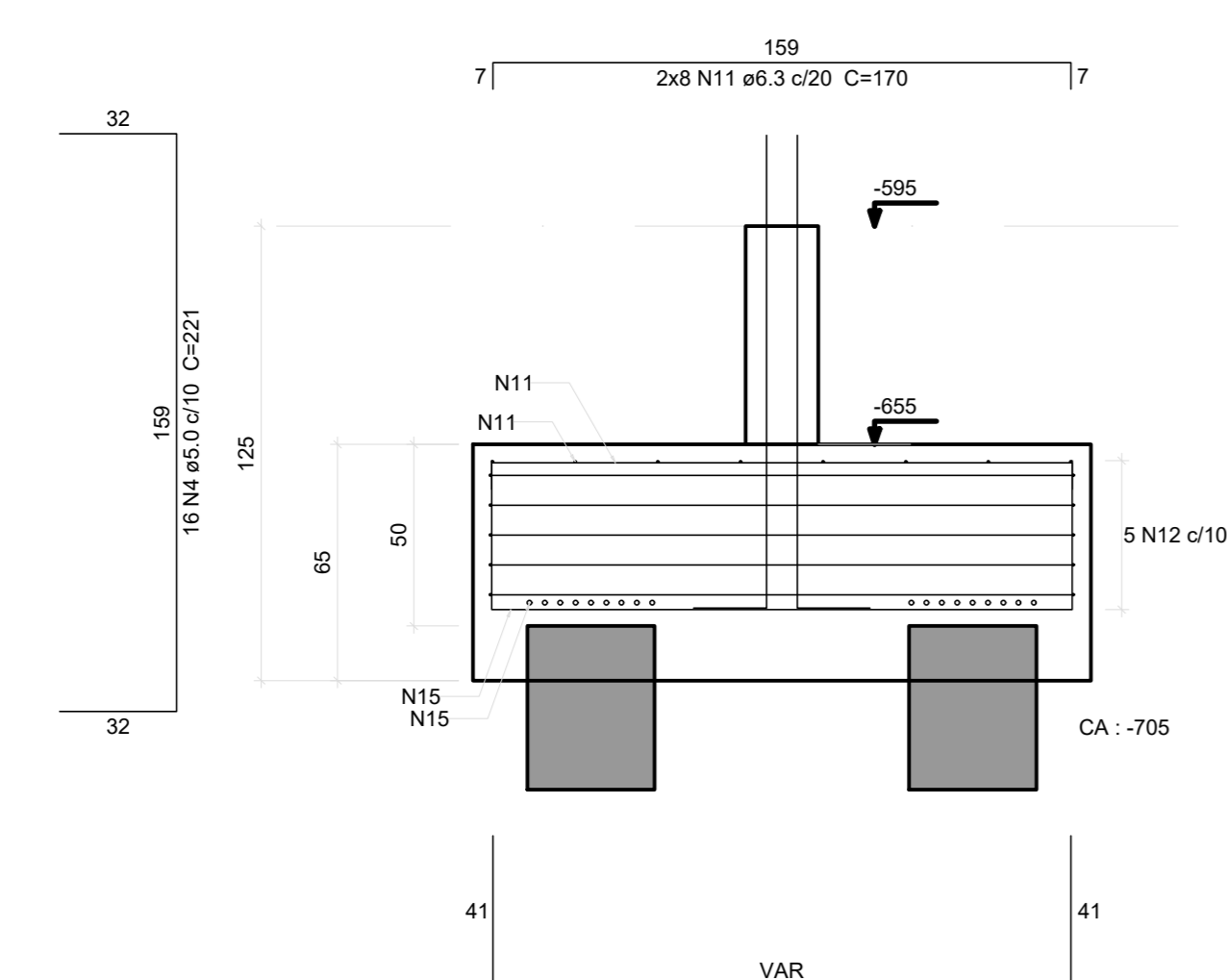
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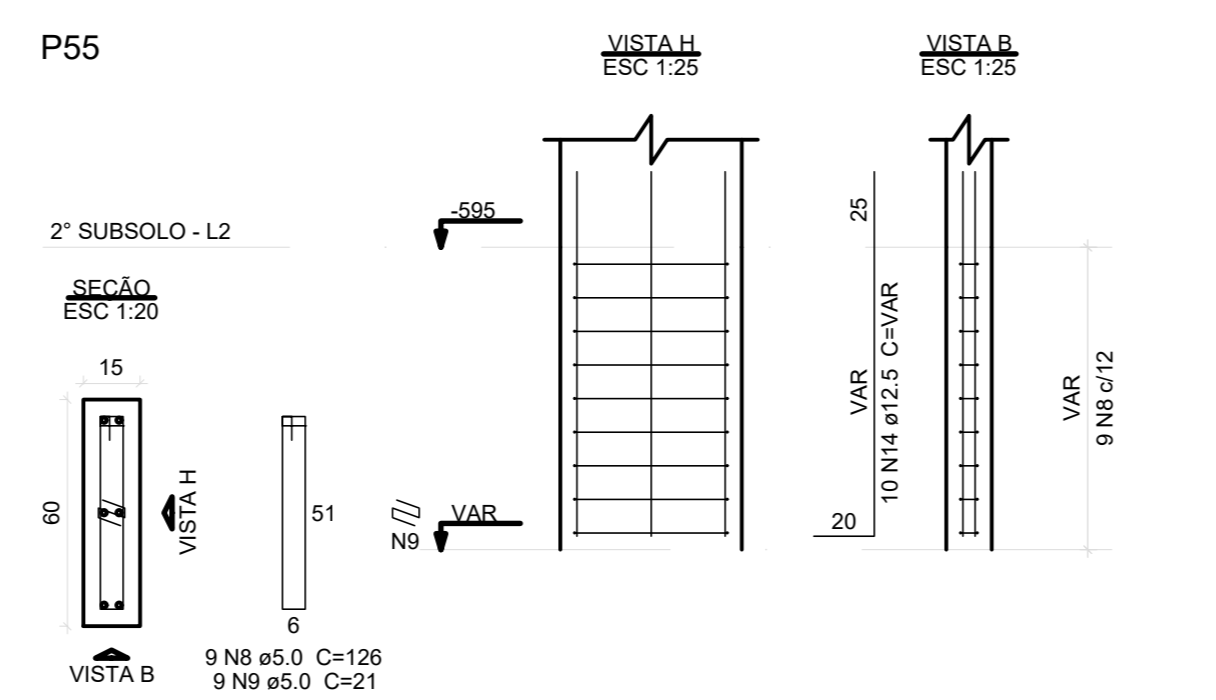
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4xC35  
PLANTA  
ESC 1:20



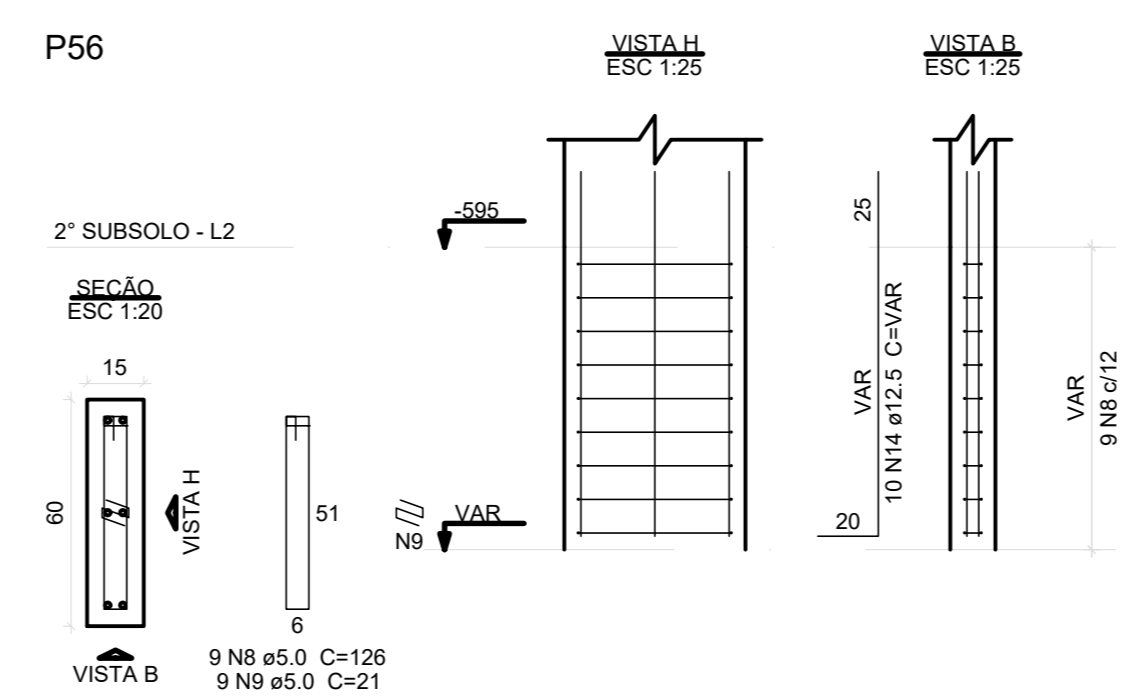
CORTE AA - CORTE B-B  
ESC 1:20



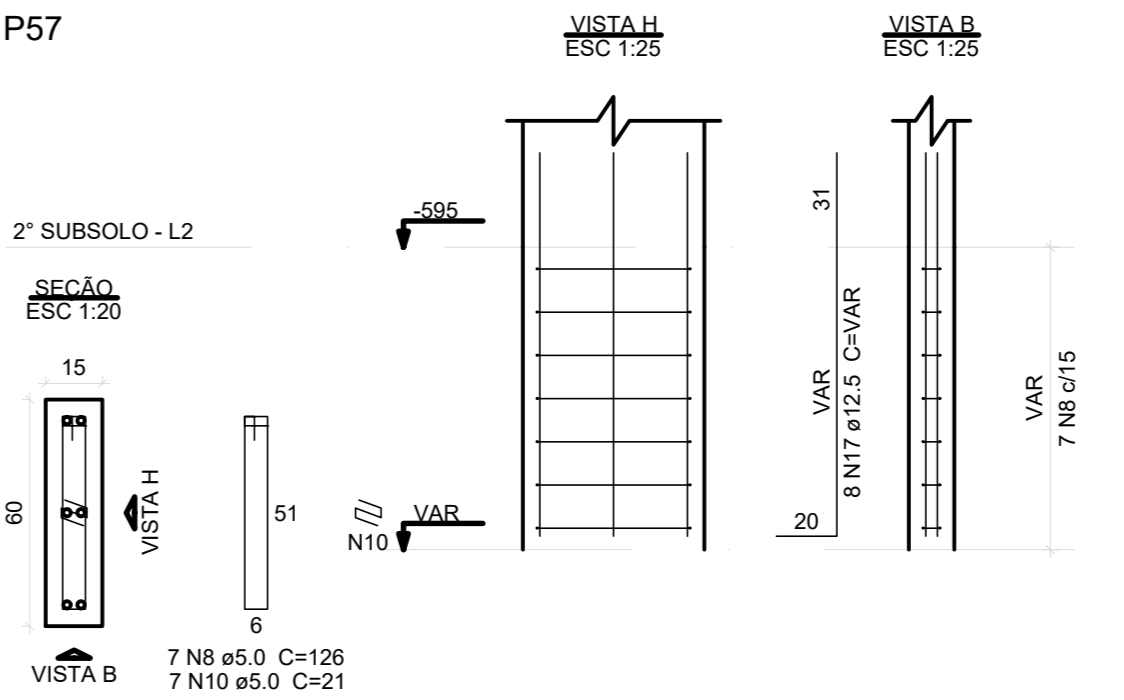
P55



P56



P57



RELACÃO DO AÇO - 2ª Parte

CAO	N	DIAM (mm)	QUANT	C.LINHT (cm)	C.TOTAL (cm)
CAO0	1	5.0	10	90	900
CAO0	2	5.0	122	26	3172
CAO0	3	5.0	38	138	5168
CAO0	4	5.0	392	221	86632
CAO0	5	5.0	9	138	1242
CAO0	6	5.0	9	24	216
CAO0	7	5.0	12	156	1872
CAO0	8	5.0	48	126	6048
CAO0	9	5.0	27	21	567
CAO0	10	5.0	21	21	441
CAO0	11	6.3	194	170	30980
CAO0	12	6.3	61	656	40916
CAO0	13	12.5	25	VAR	VAR
CAO0	14	12.5	46	VAR	VAR
CAO0	15	12.5	210	VAR	VAR
CAO0	16	12.5	22	VAR	VAR
CAO0	17	12.5	24	VAR	VAR
CAO0	18	12.5	10	VAR	VAR
CAO0	19	16.0	10	VAR	VAR
CAO0	20	16.0	14	VAR	VAR

**Resumo do aço**

CAO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CAO0	5.0	730	136.5
CAO0	12.5	707.8	750
CAO0	16.0	38.5	66.8
CAO0	5.0	1093.2	190.3
<b>PESO TOTAL</b>			<b>(kg)</b>
CAO0		1013.3	
CAO0		180.3	

Volume de concreto (C-30) = 23.52 m³  
Área de forma = 76.22 m²

Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

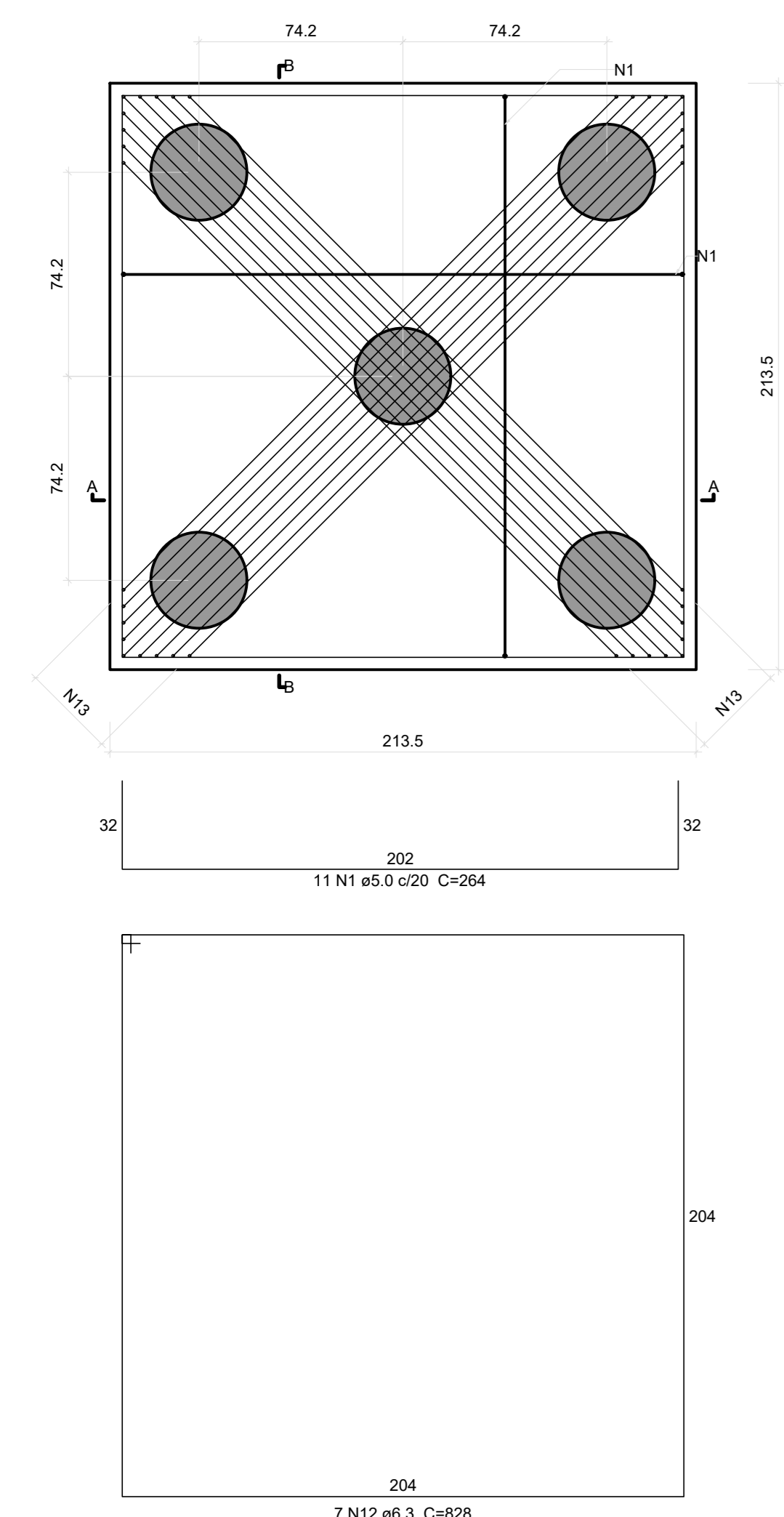
SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
RESP. TÉCNICO \_\_\_\_\_

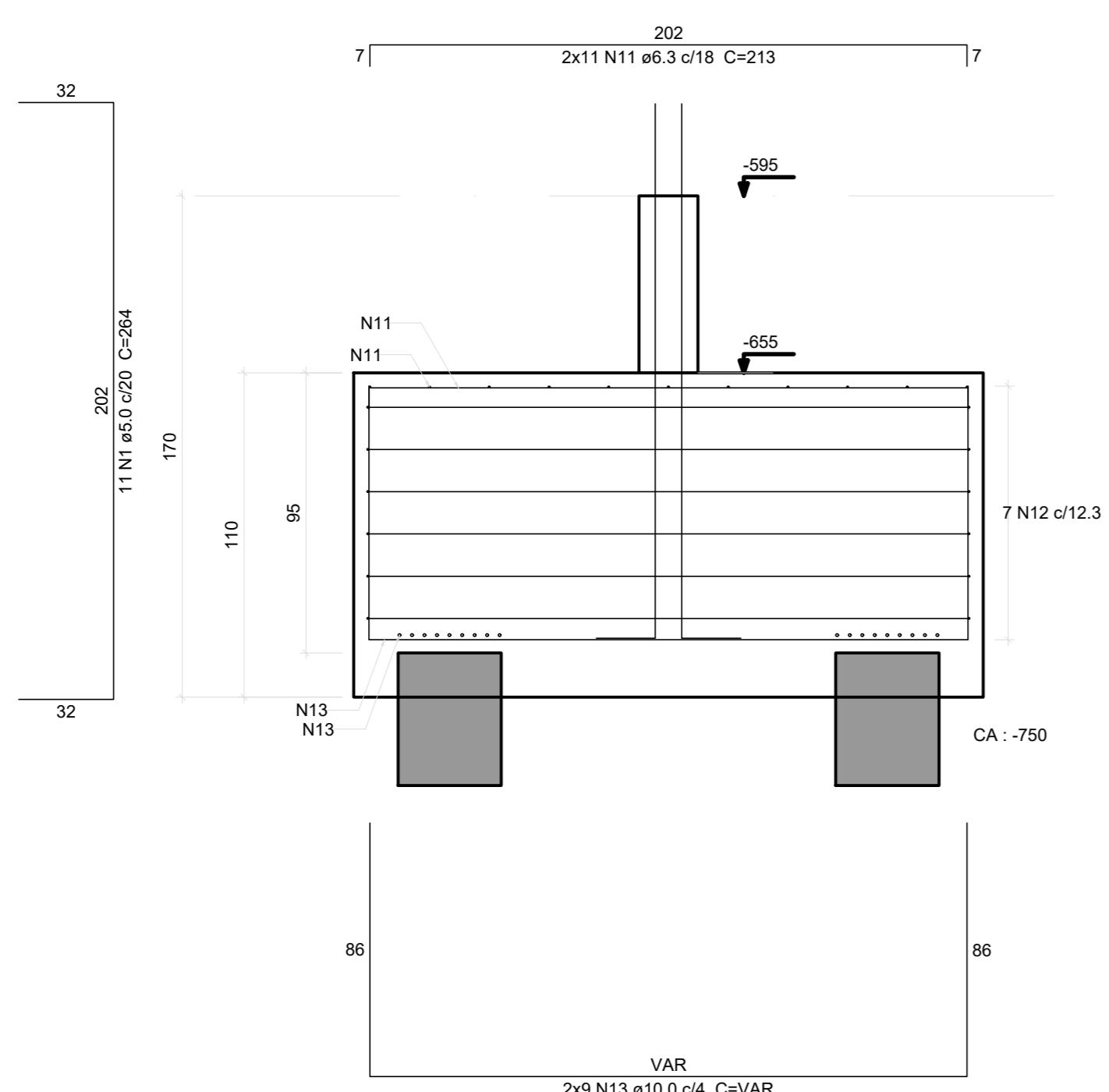
PROJETO ESTRUTURAL  
USO - INSTITUCIONAL  
CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
Conteúdo: ARMAÇÃO DOS BLOCOS DO PAVIMENTO 2º SUBSOLO (PARTE 02)  
Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

Prancha: ESTRUTURA 5  
05/84

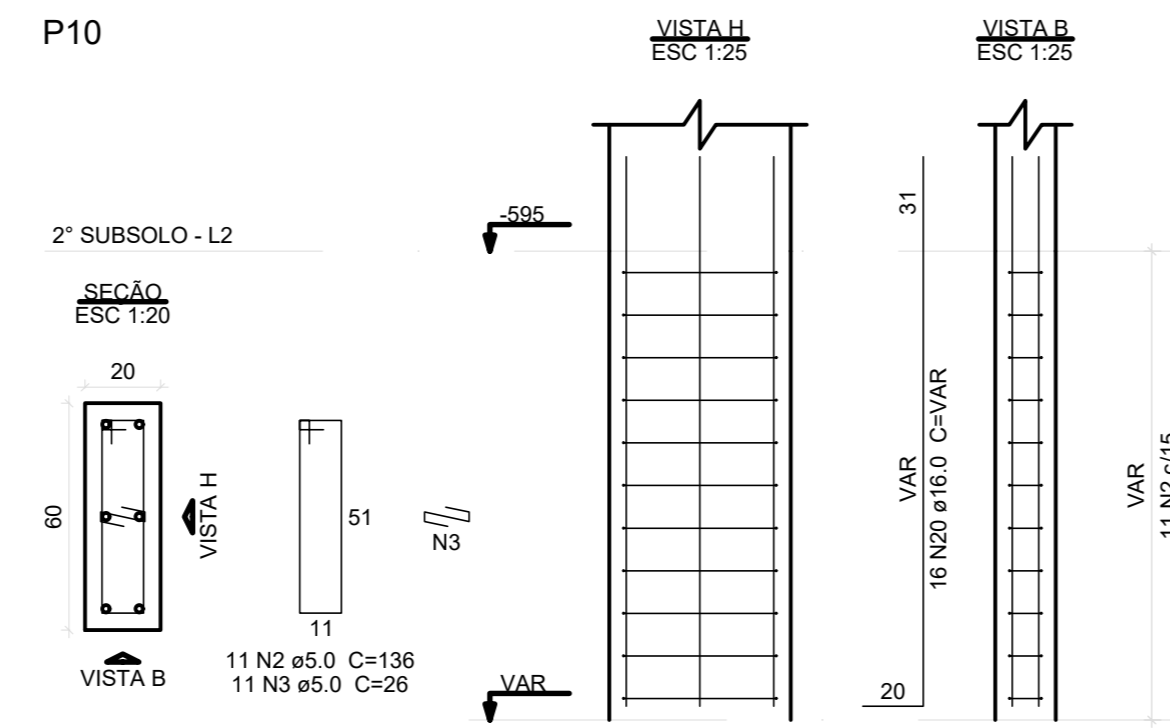
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5xC35  
PLANTA  
ESC 1:20



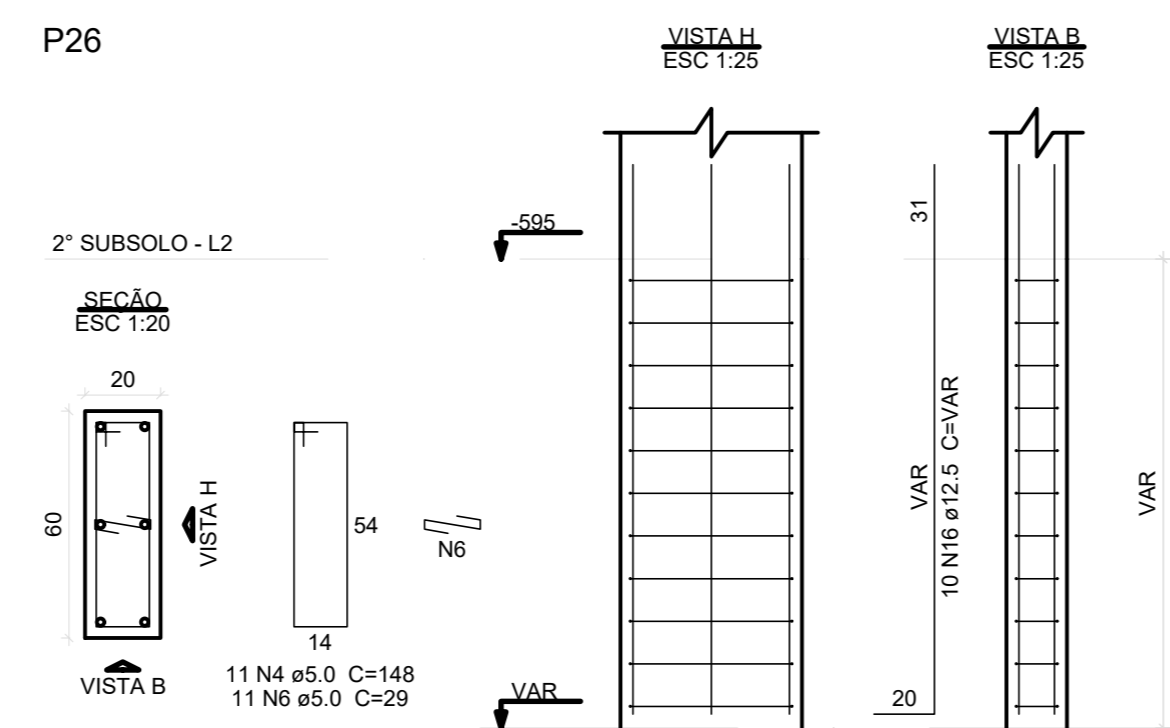
CORTE AA = CORTE B-B  
ESC 1:20



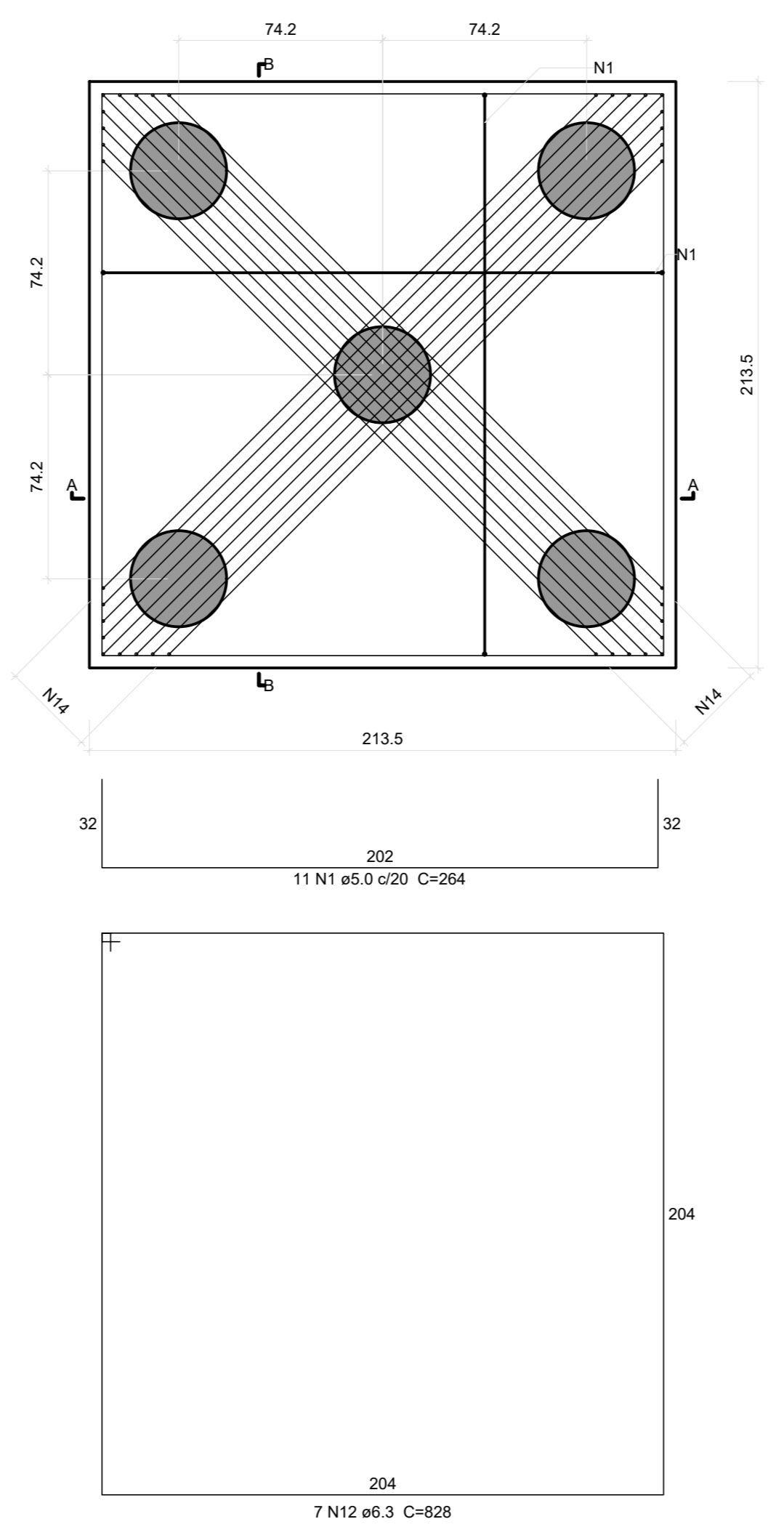
P10



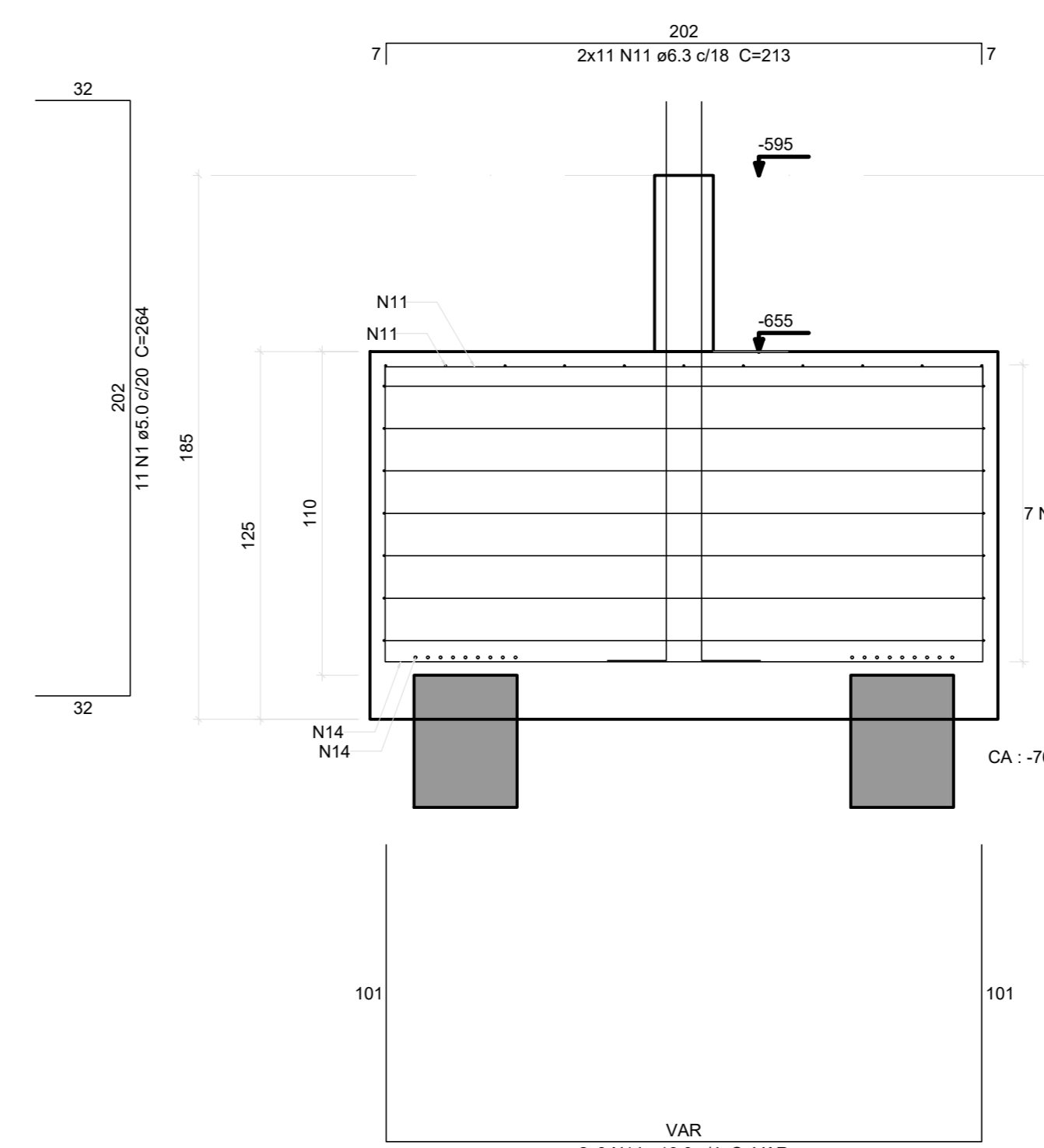
P26



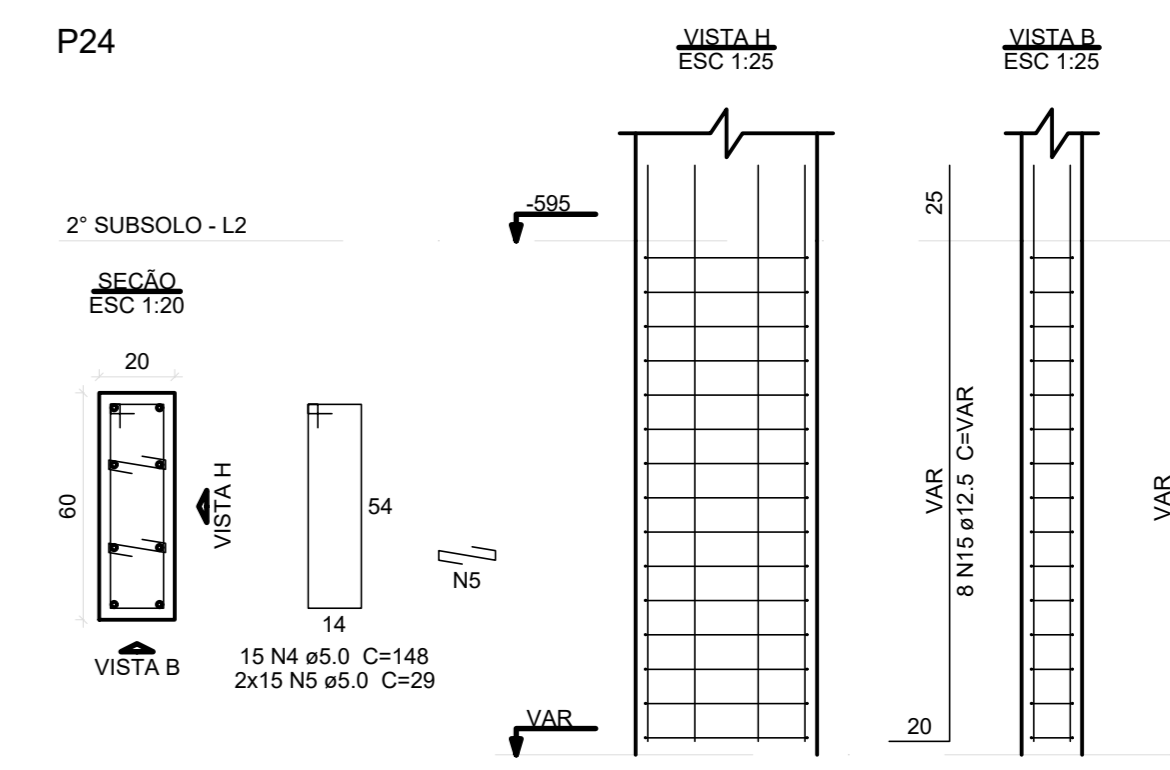
B24=B28=B40  
5XC35  
PLANTA  
ESC 1:20



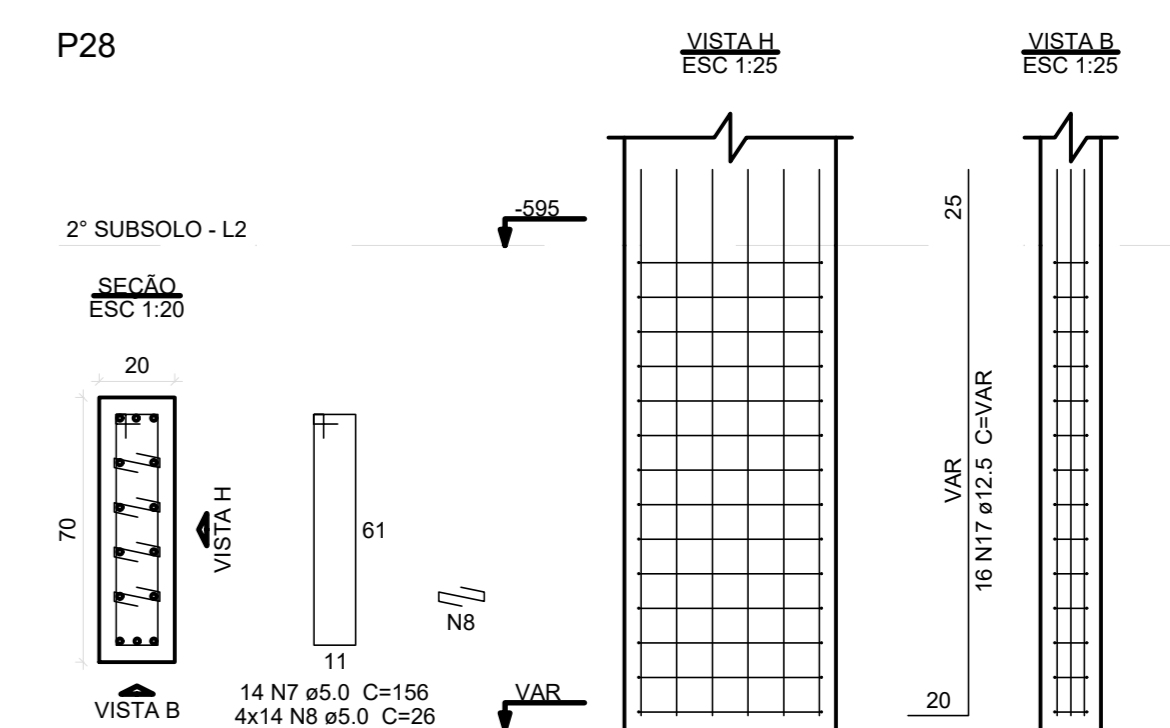
CORTE AA = CORTE B-B  
ESC 1:20



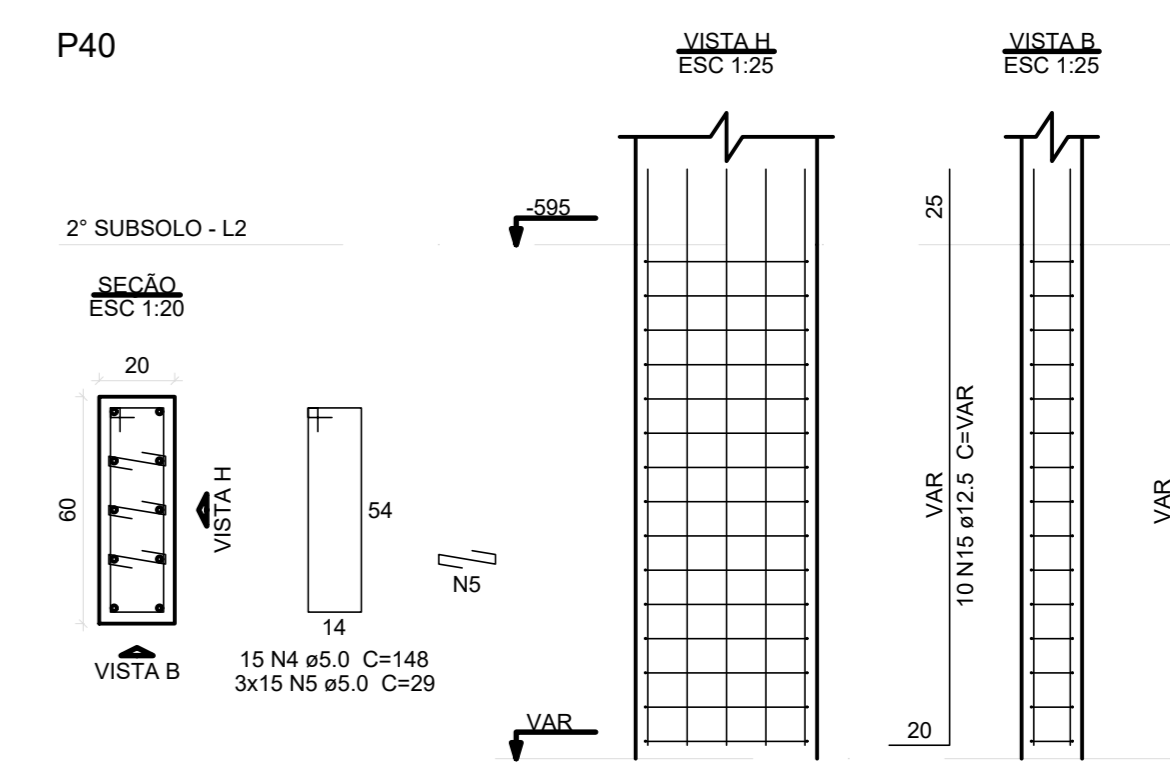
P24



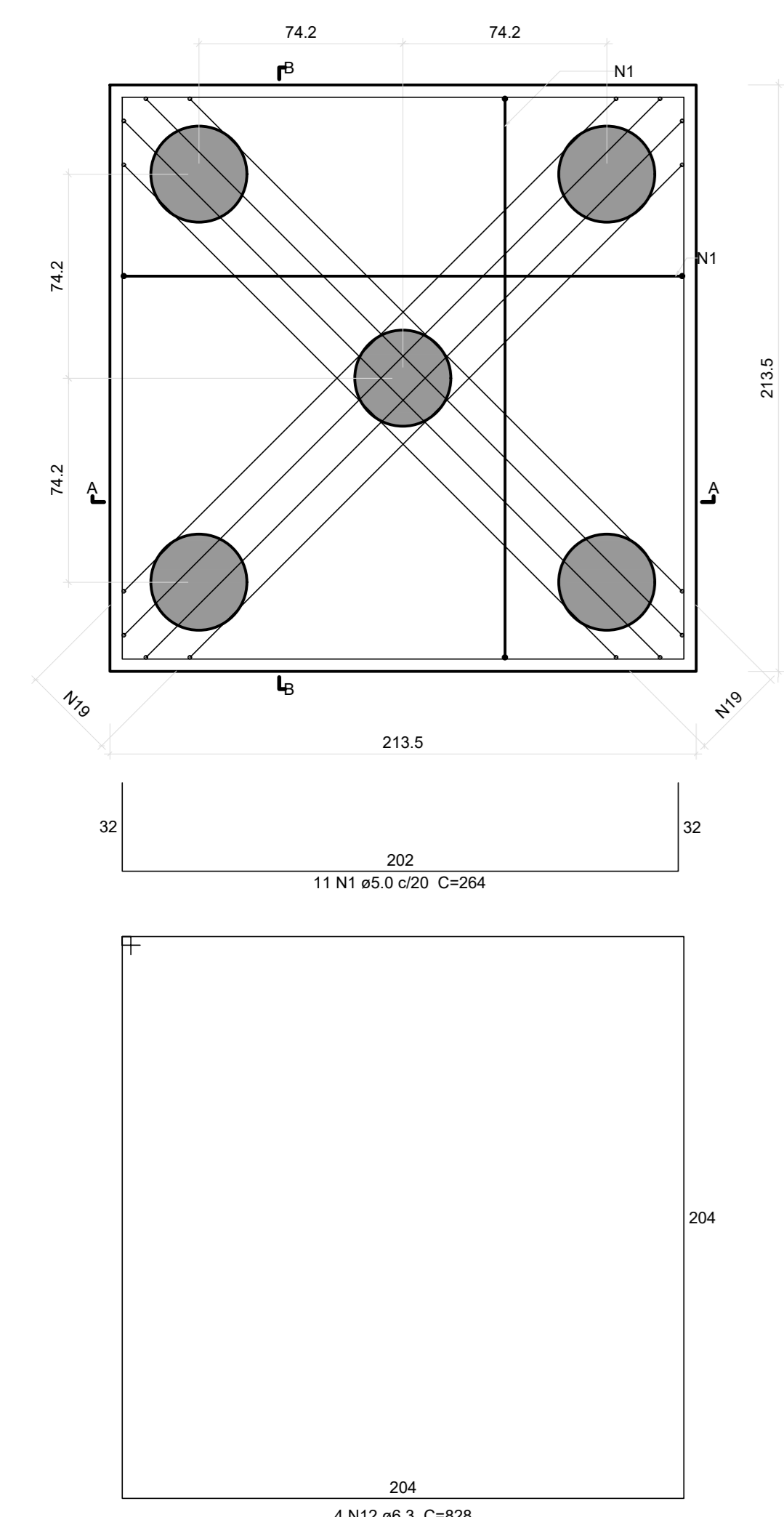
P28



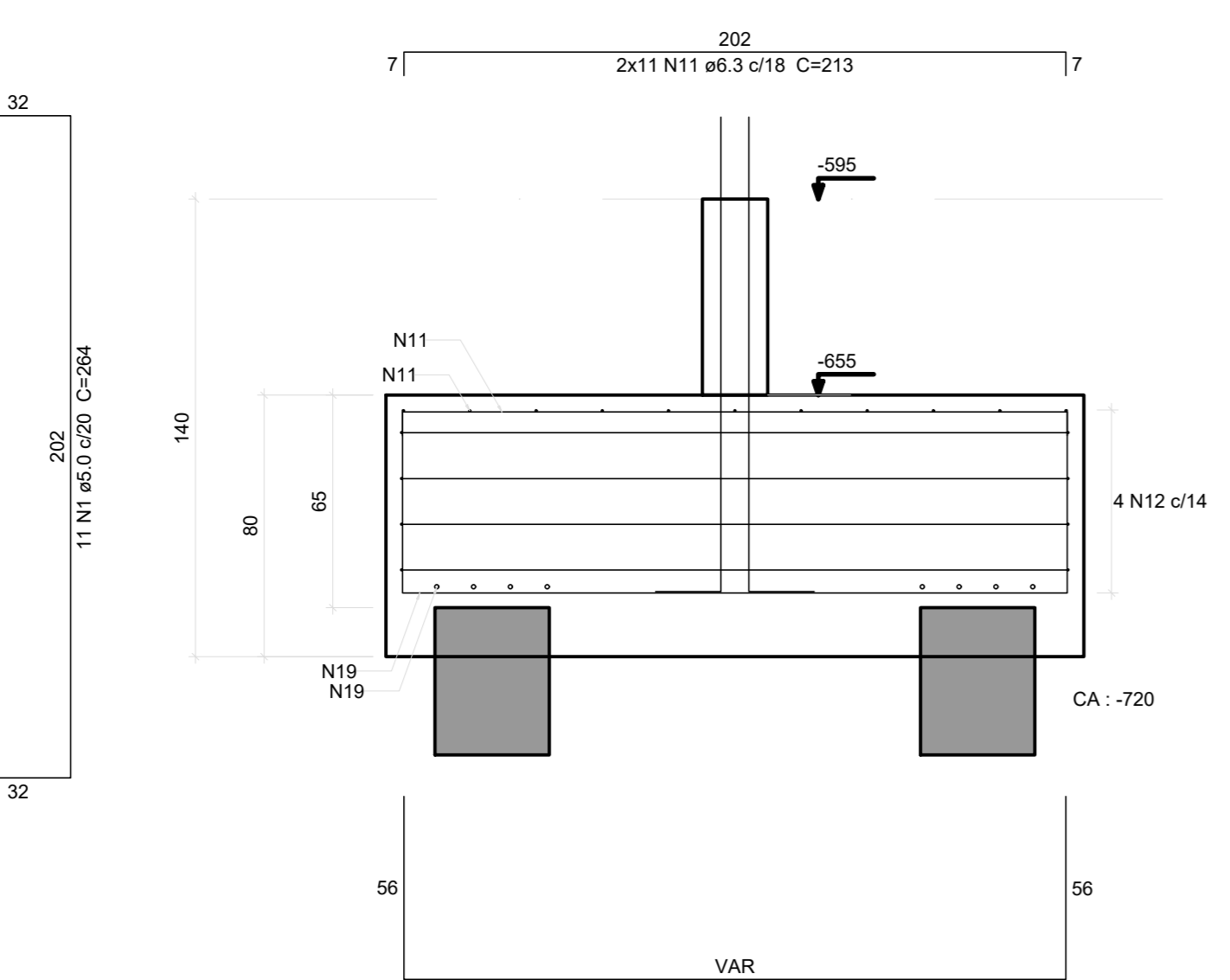
P40



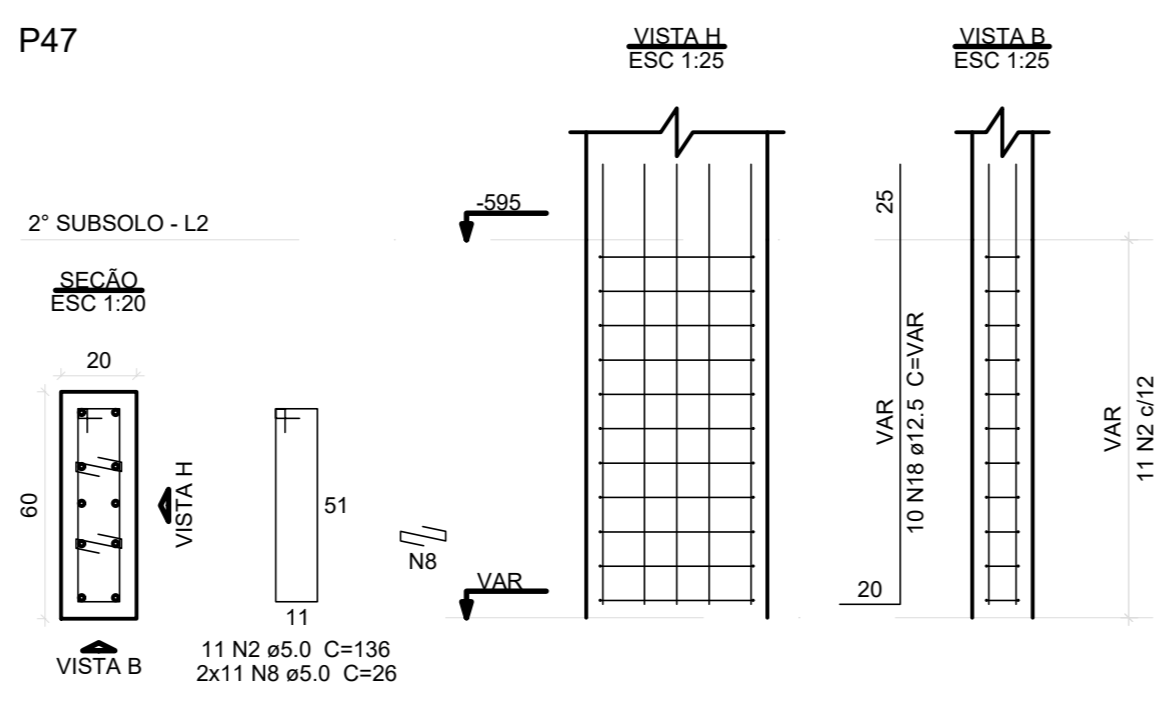
B47=B49  
5xC35  
PLANTA  
ESC 1:20



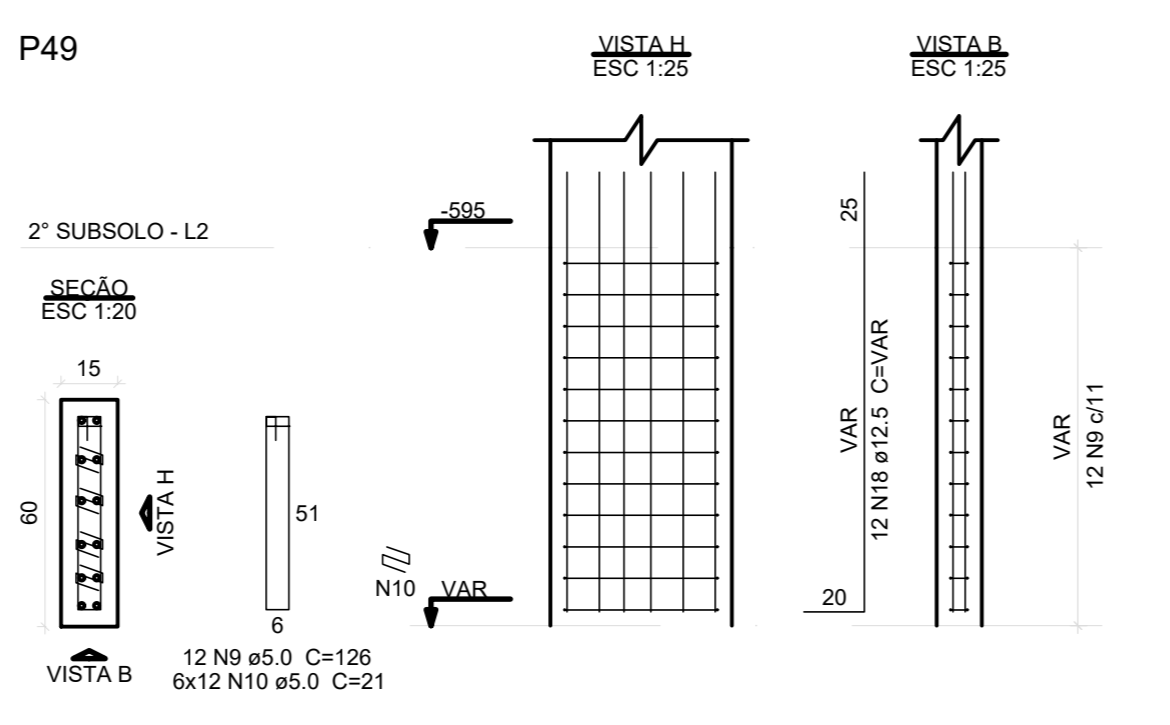
CORTE AA = CORTE B-B  
ESC 1:20



P47



P49



RELAÇÃO DO AÇO - 2ª Parte

2x610	3x624	2x647
P10	P24	P28
828	P40	P47
P49		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	154	204	49068
	2	5.0	22	136	2992
	3	5.0	11	26	286
	4	5.0	41	148	6068
	5	5.0	60	29	1740
	6	5.0	11	29	319
	7	5.0	14	156	2184
	8	5.0	78	26	2028
	9	5.0	12	108	1512
	10	5.0	72	21	1512
CA50	11	6.3	154	213	32902
	12	6.3	43	828	35604
	13	10.0	36	VAR	VAR
	14	10.0	54	VAR	VAR
	15	12.5	18	VAR	VAR
	16	12.5	10	VAR	VAR
	17	12.5	16	VAR	VAR
	18	12.5	22	VAR	VAR
	19	12.5	16	VAR	VAR
	20	18.0	16	VAR	VAR

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	694.1	184.1
	10.0	348.3	236.2
	12.5	174.2	154.6
	16.0	31.7	55.0
CA60	5.0	593.0	100.5
CA50		659.9	
CA60		102.4	

Volume de concreto (C-30) = 34.41 m³  
Área de forma = 81.63 m²

Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

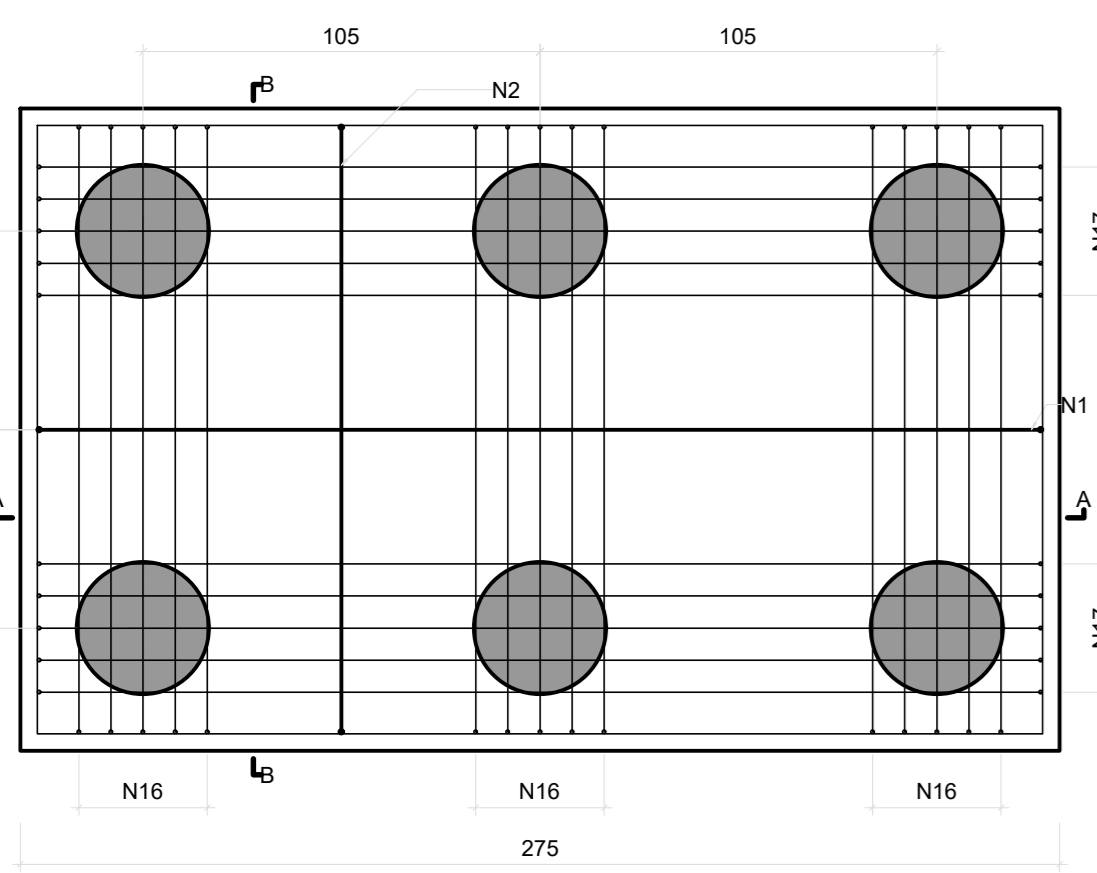
SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
RESP. TÉCNICO \_\_\_\_\_

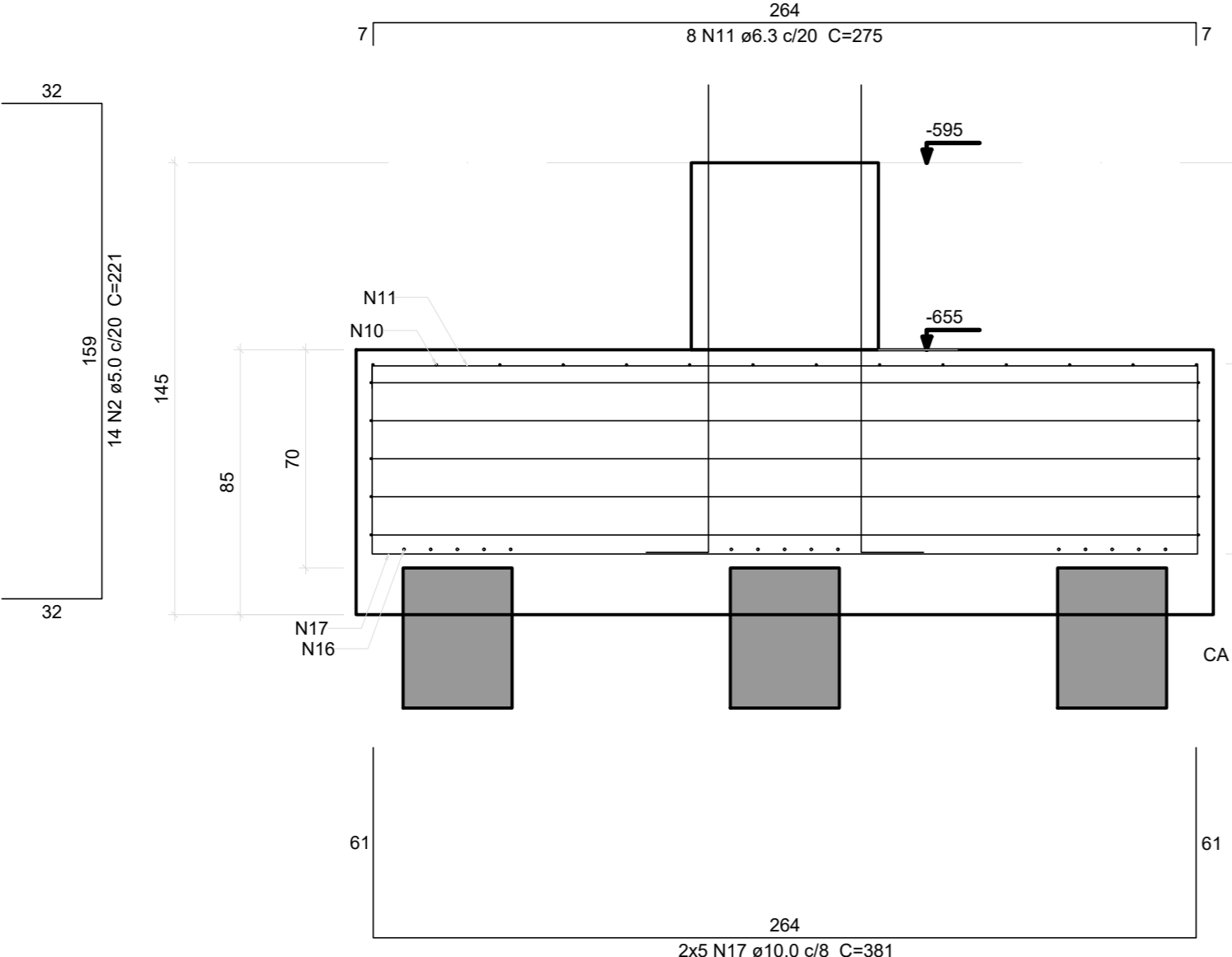
PROJETO ESTRUTURAL  
USO - INSTITUCIONAL  
CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
Conteúdo: ARMAÇÃO DOS BLOCOS DO PAVIMENTO 2º SUBSOLO (PARTE 03)  
Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1/50

Prancha: ESTRUTURA 5  
**06/84**

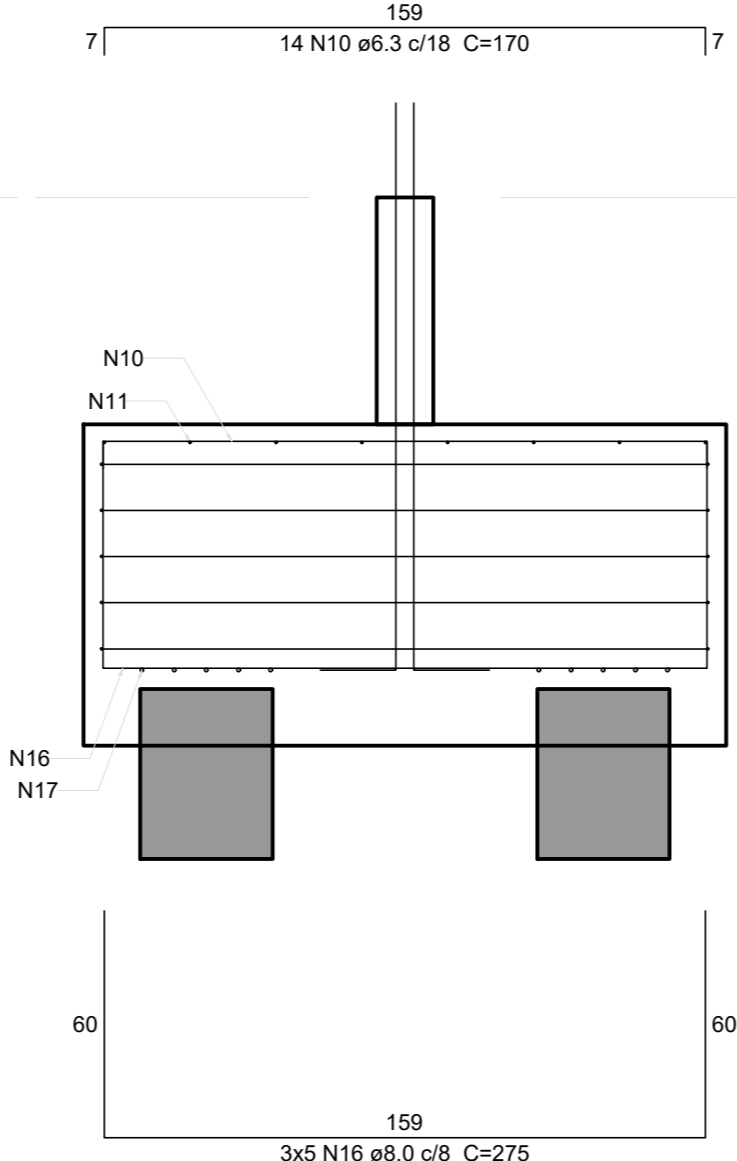
B39  
6x3C35  
PLANTA  
ESC 1:20



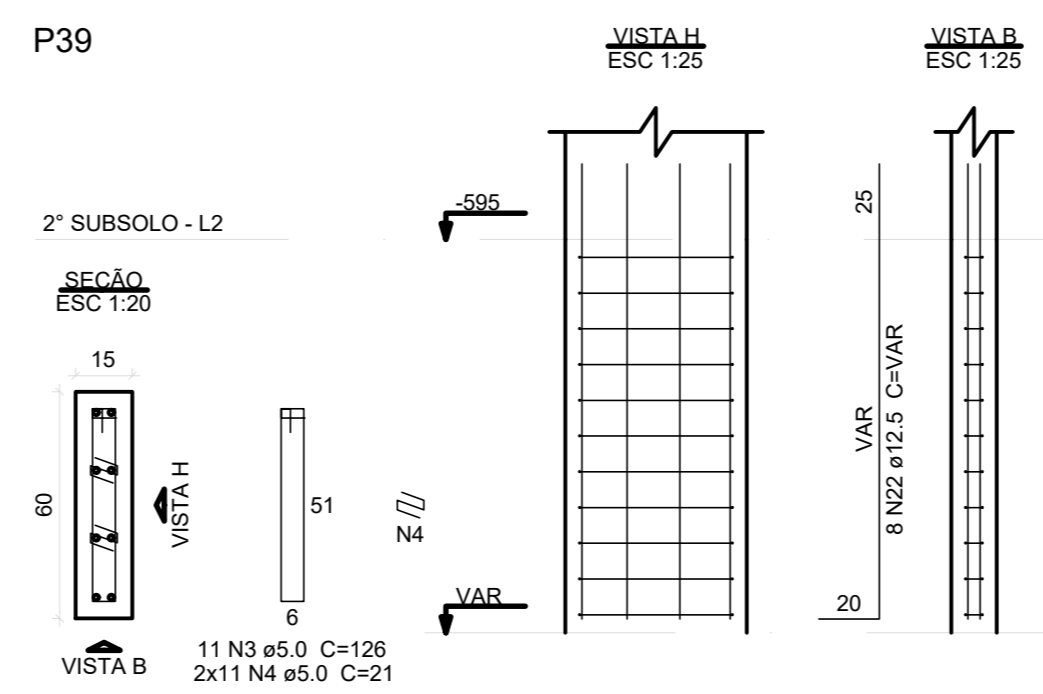
CORTE A-A  
ESC 1:20



CORTE B-B  
ESC 1:20



P39



3x68 B39 3x633  
P13 P13 P33  
P39 P44 P45

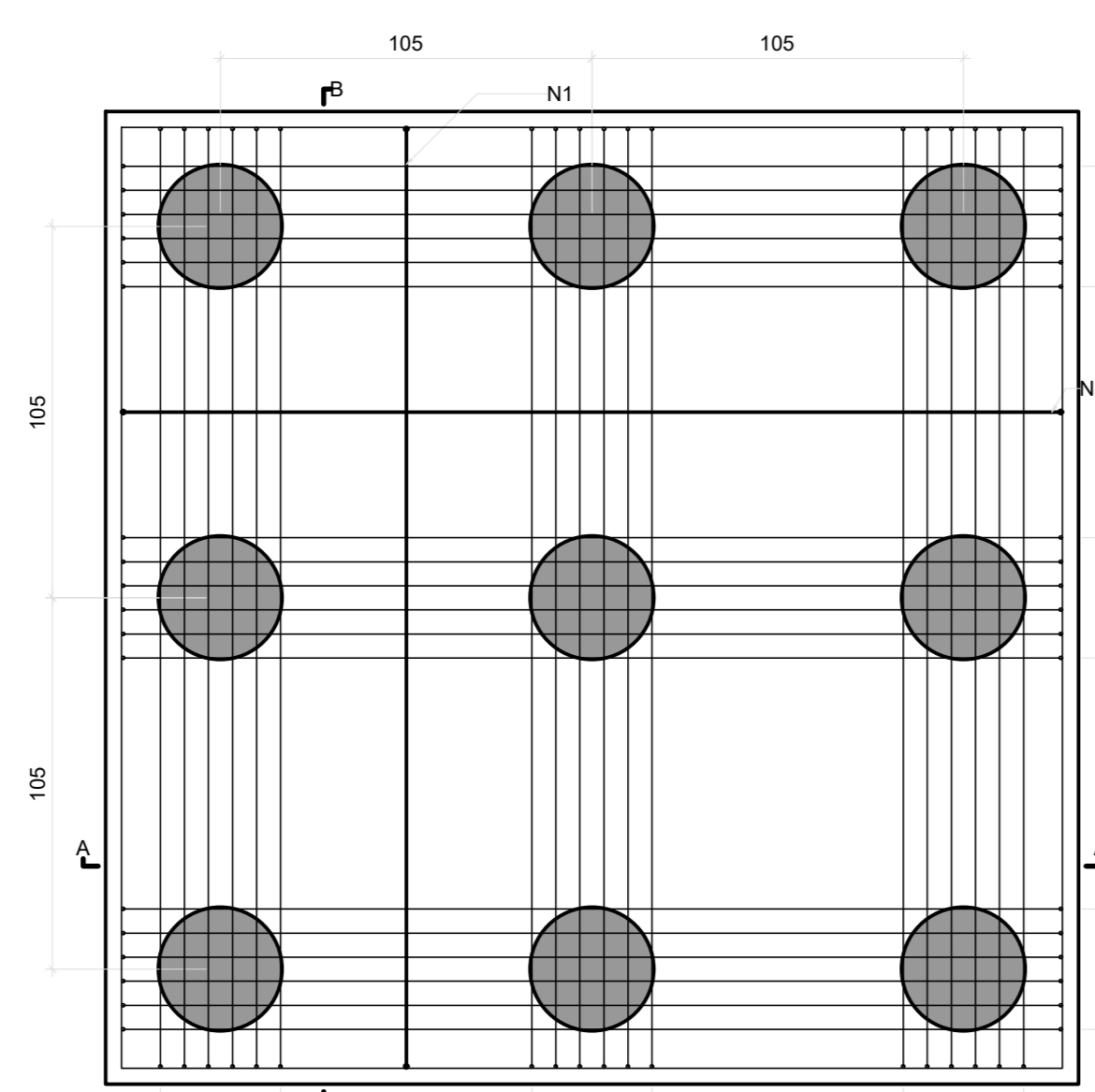
ACO	N	DIAM (mm)	QUANT	CUNT (cm)	C.TOTAL (cm)
CA60	1	5.0	120	226	38120
	2	5.0	101	221	22321
	3	5.0	86	120	7056
	4	5.0	160	21	3360
	5	5.0	29	136	3944
	6	5.0	87	26	2262
	7	5.0	39	431	16809
	8	5.0	13	170	2268
	9	5.0	39	36	1404
CA50	10	6.3	71	170	12070
	11	6.3	120	275	33000
	12	6.3	5	866	4330
	13	6.3	24	380	9120
	14	6.3	33	1076	35508
	15	6.3	28	1076	30128
	16	8.0	15	275	4125
	17	10.0	10	381	3810
	18	10.0	72	606	43832
	19	10.0	48	694	18912
	20	10.0	72	441	31752
	21	10.0	72	430	31608
	22	12.5	8	VAR	VAR
	23	12.5	10	VAR	VAR
	24	12.5	10	VAR	VAR
	25	12.5	10	VAR	VAR
	26	12.5	8	VAR	VAR
	27	12.5	10	VAR	VAR
	28	12.5	16	VAR	VAR

**Resumo do aço**

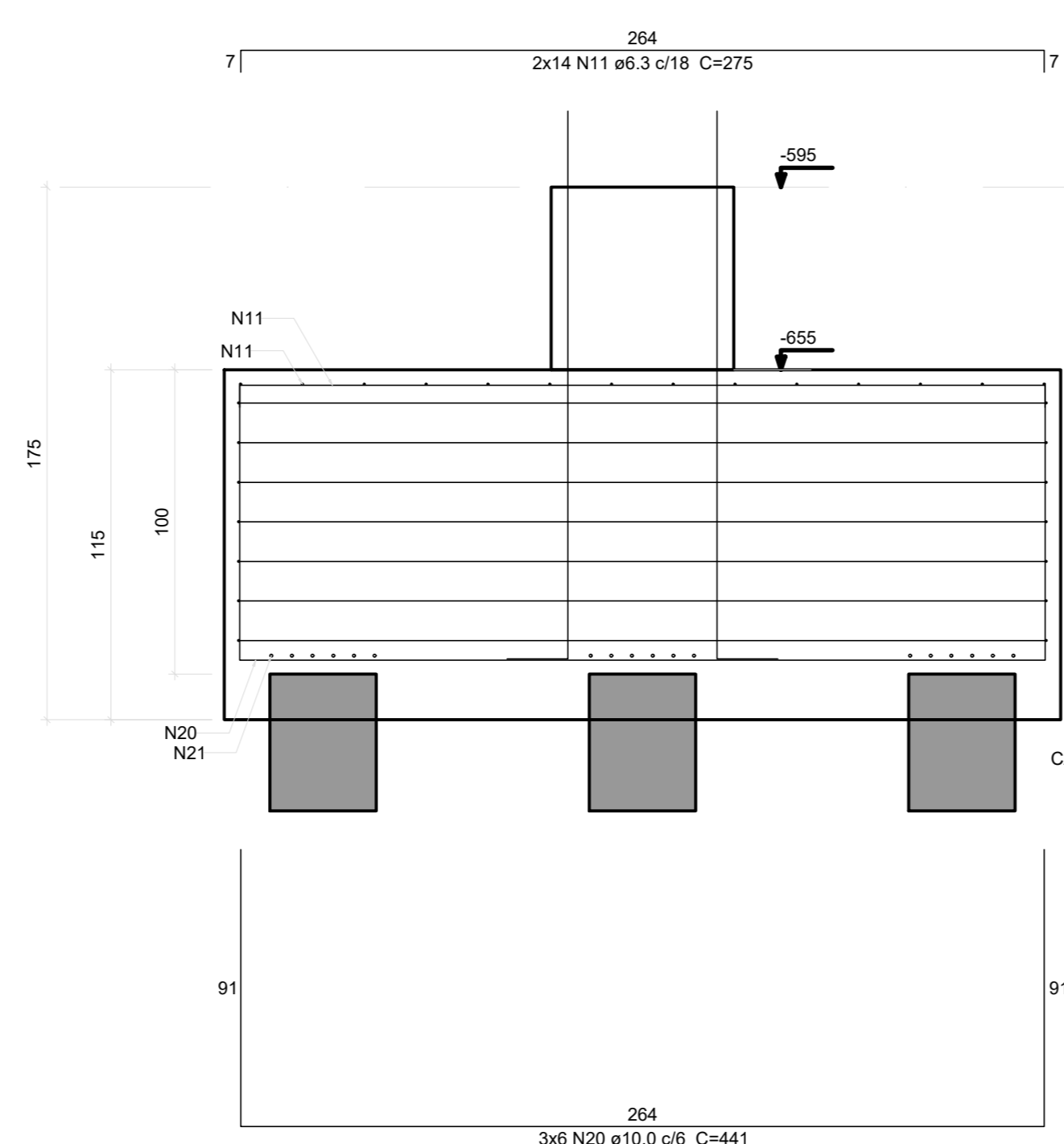
ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	1241.6	334.2
	8.0	41.3	17.9
	10.0	1297.2	879.7
	12.5	141.9	150.3
CA60	5.0	985.7	167.1
<b>CA50</b>		<b>1382.1</b>	
<b>CA60</b>		<b>167.1</b>	

Volume de concreto (C-30) = 66.40 m³  
Área de forma = 123.75 m²

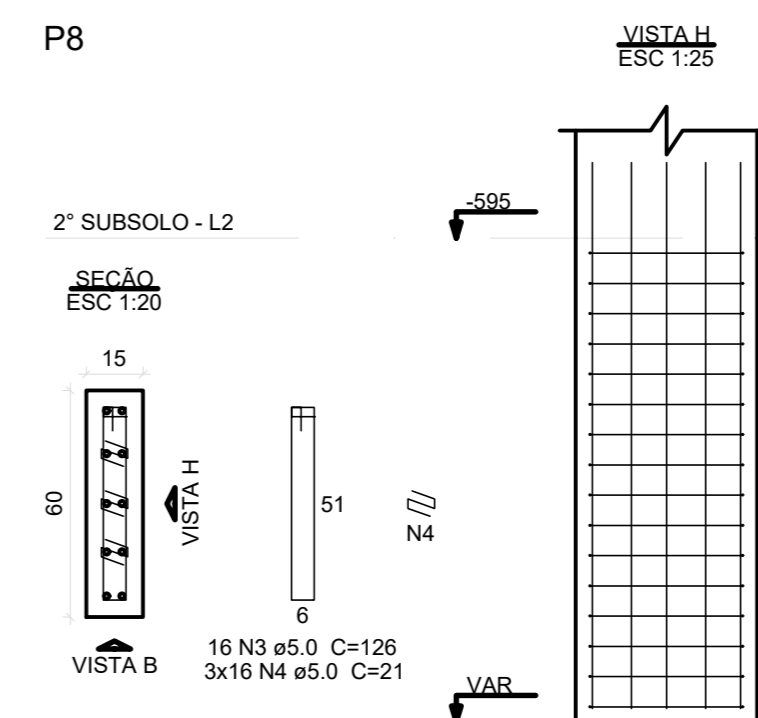
B8=B13=B50  
9x3C35  
PLANTA  
ESC 1:20



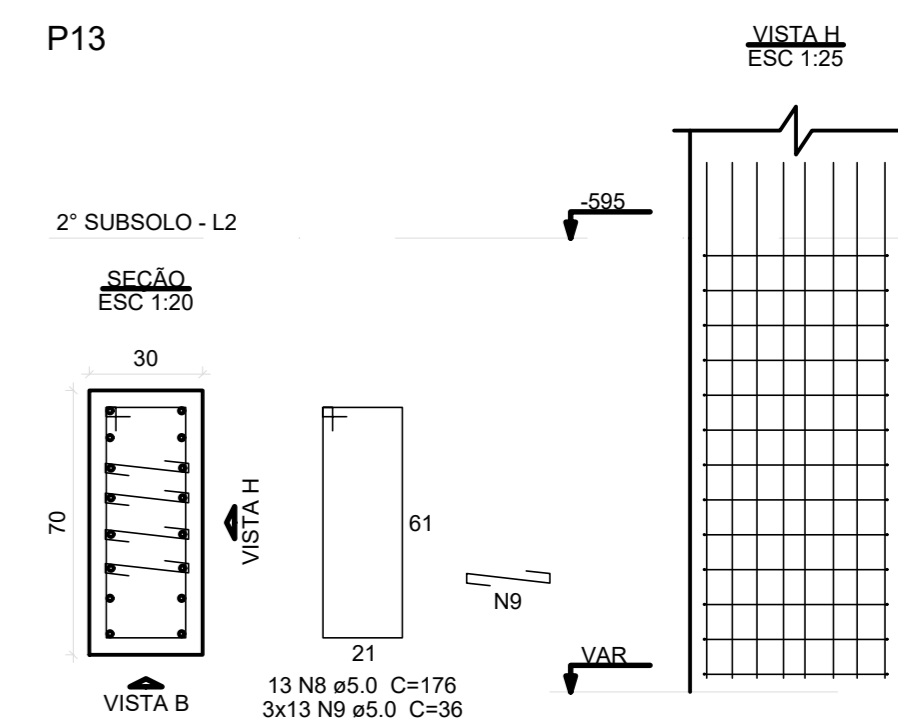
CORTE A-A + CORTE B-B  
ESC 1:20



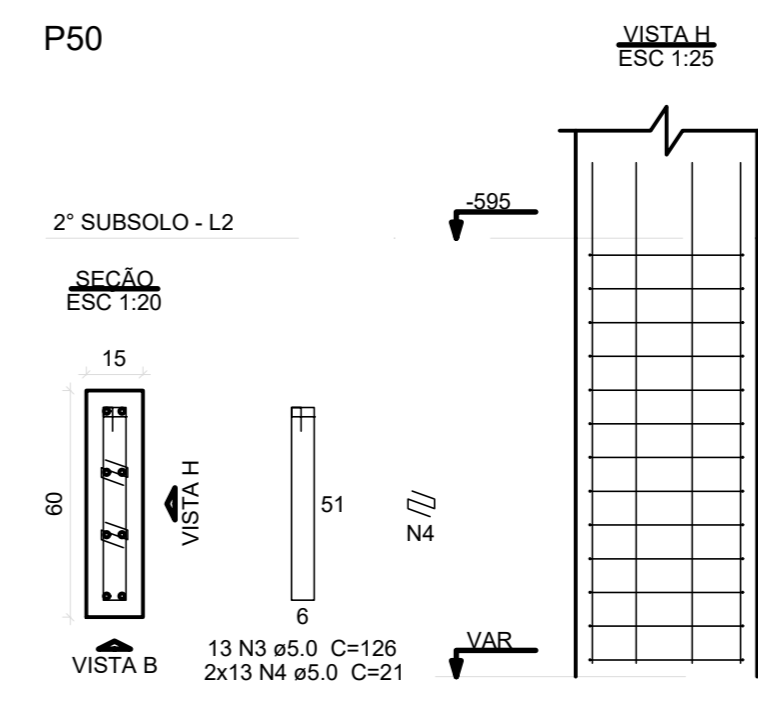
P8



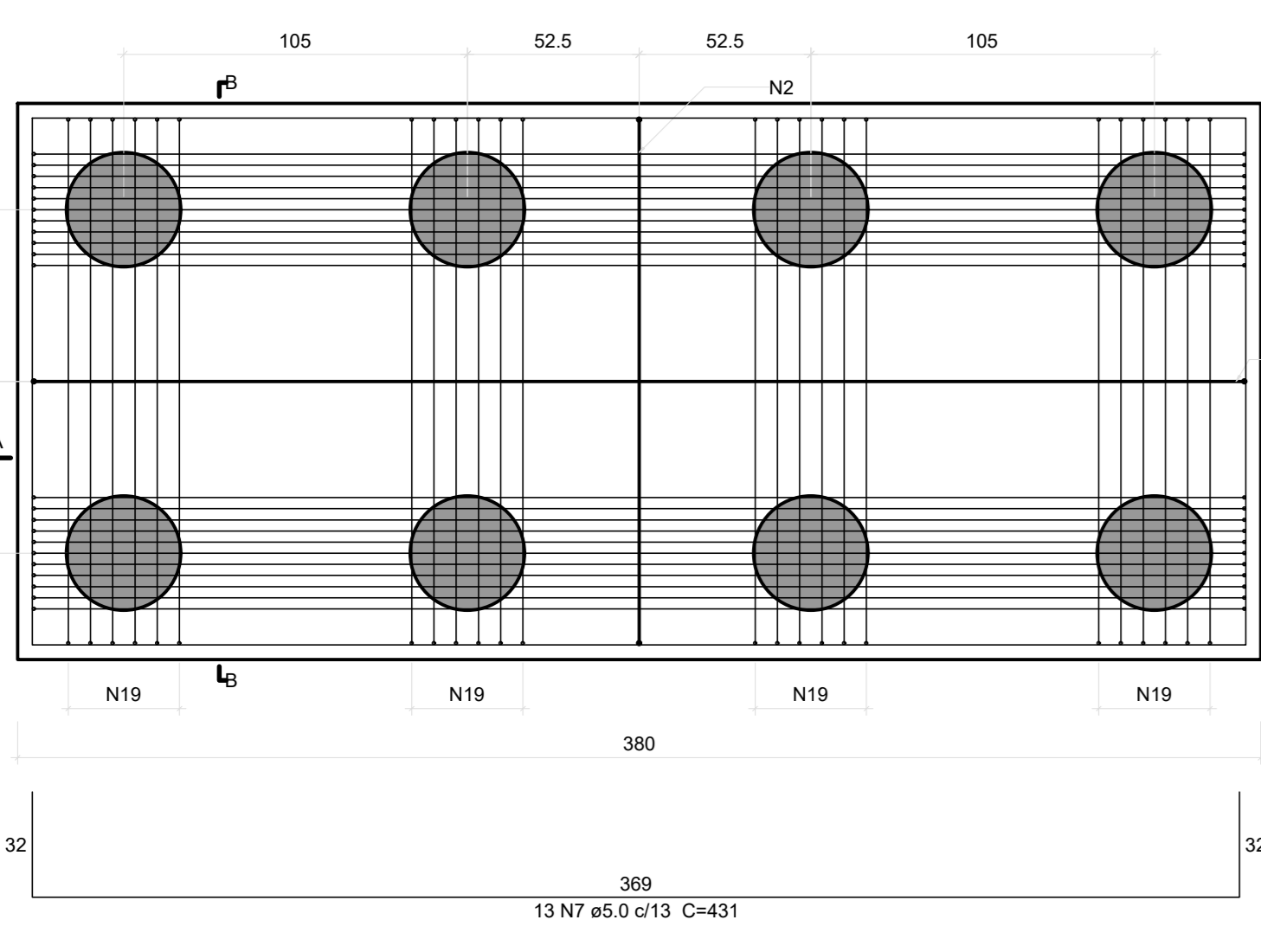
P13



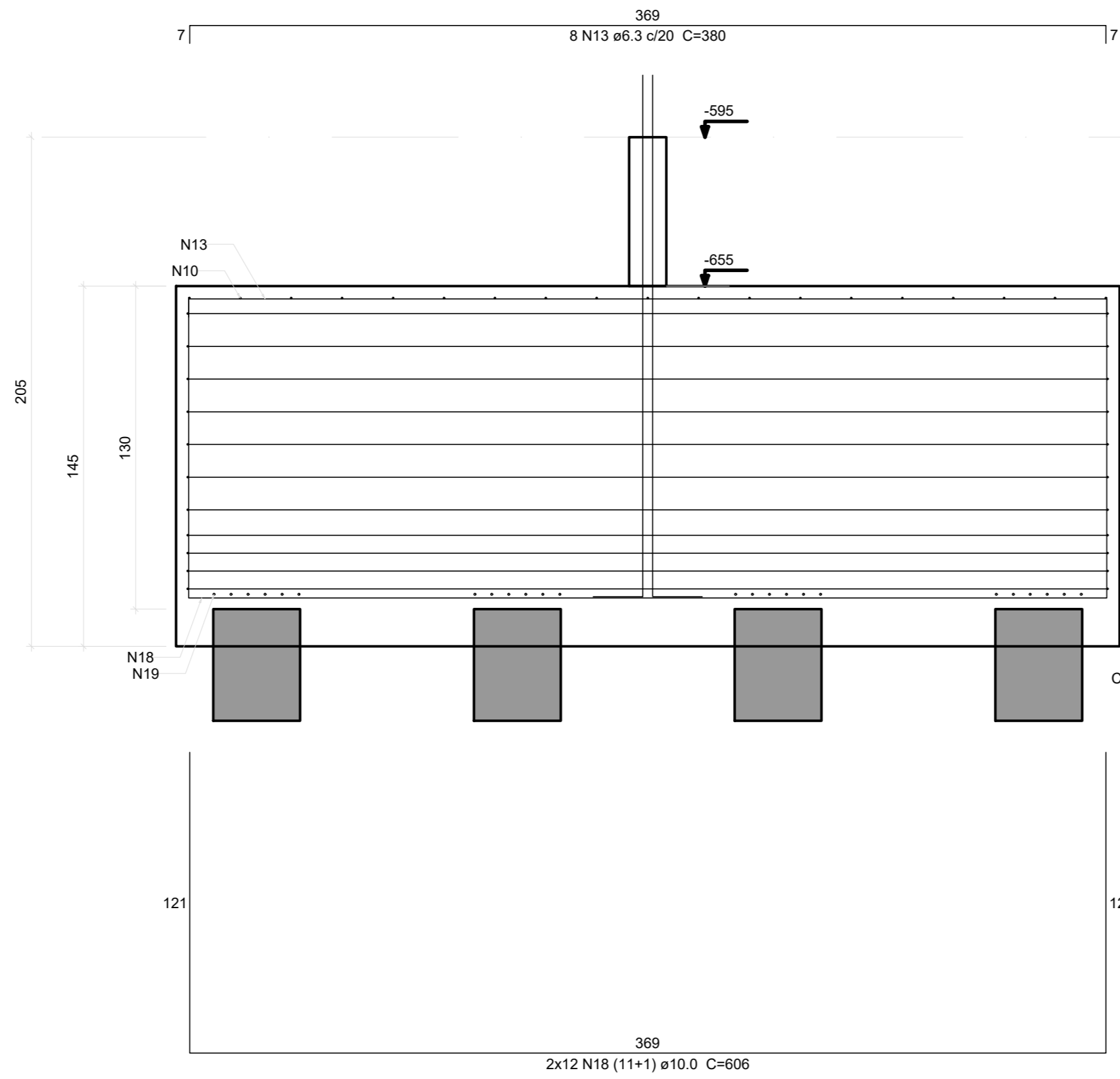
P50



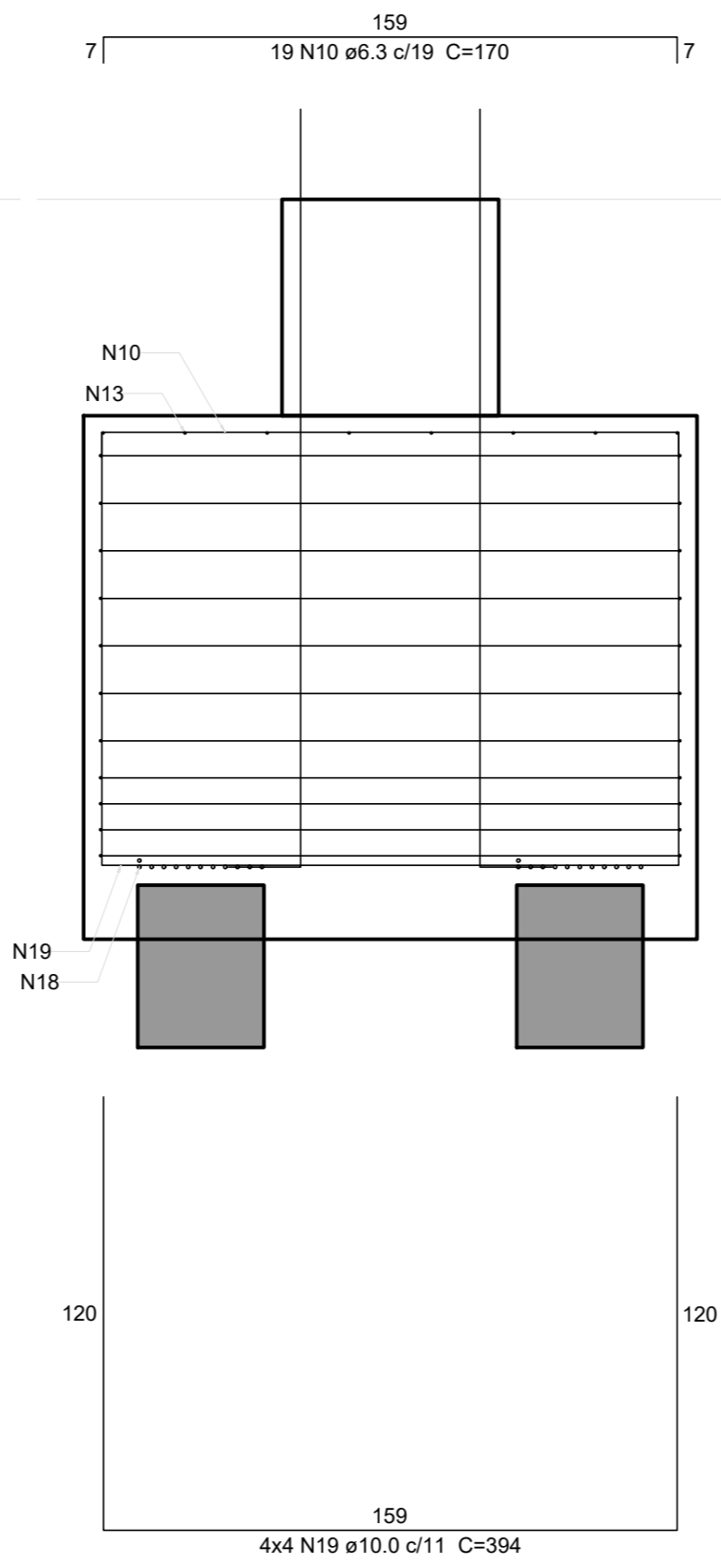
B33=B44=B45  
8x3C35  
PLANTA  
ESC 1:20



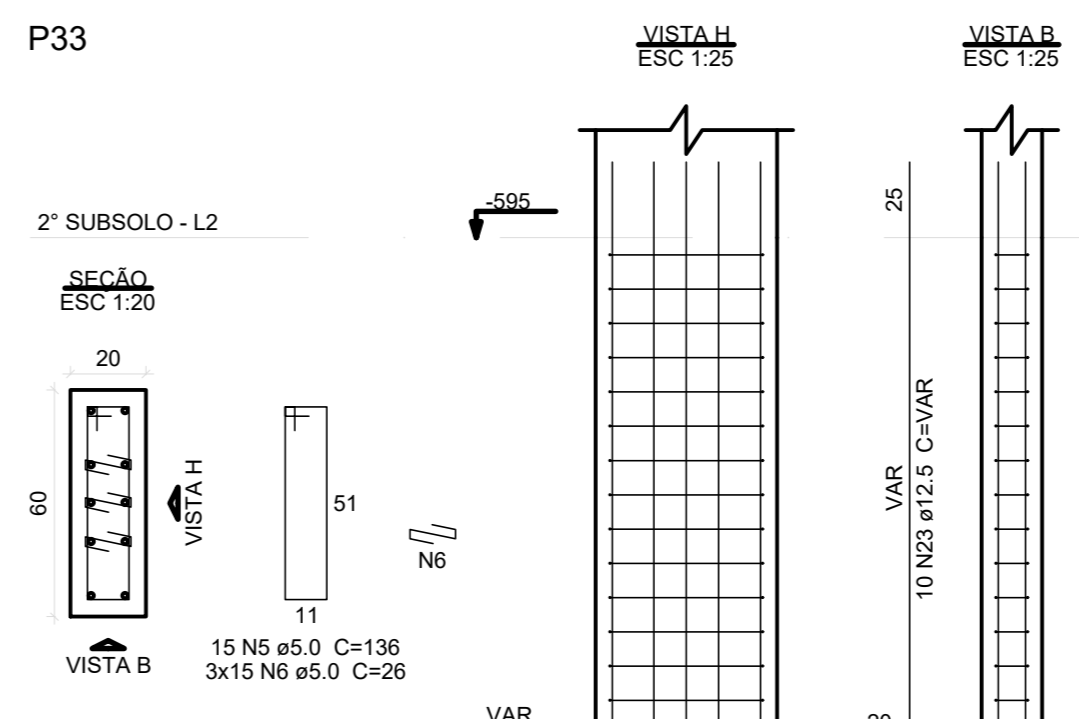
CORTE A-A  
ESC 1:20



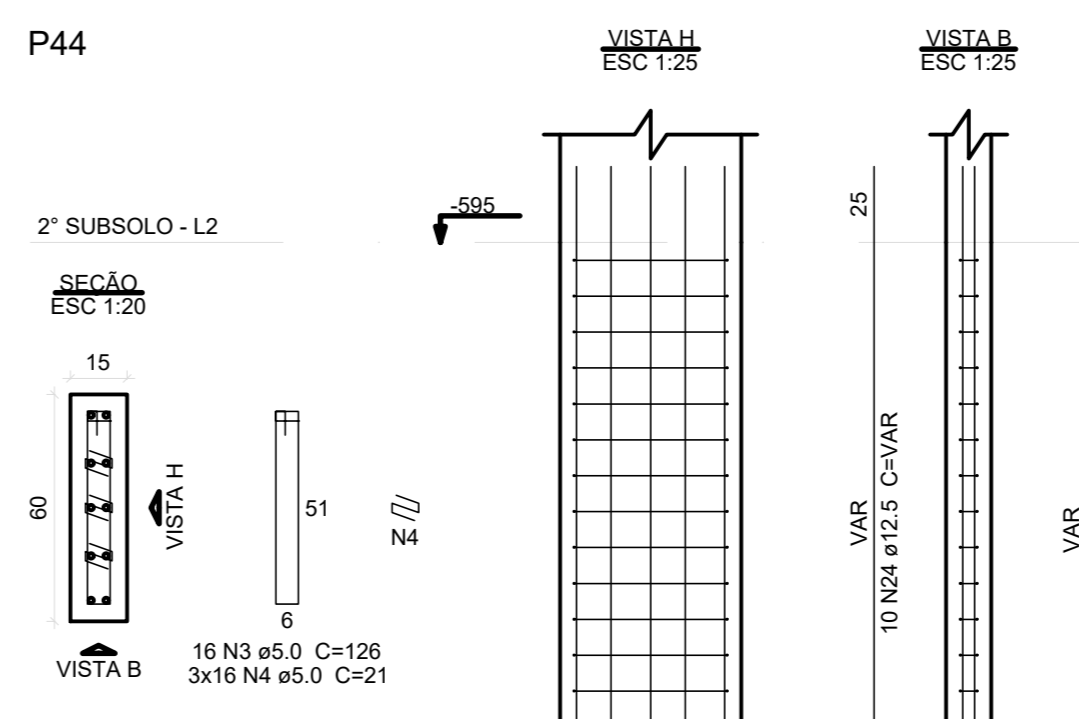
CORTE B-B  
ESC 1:20



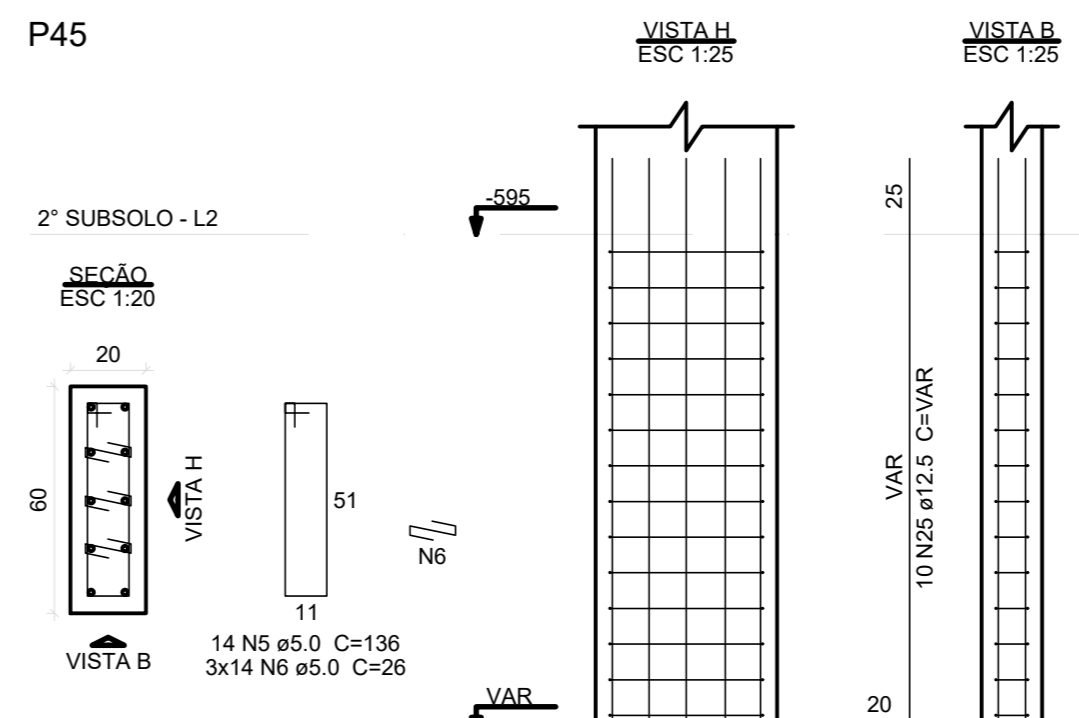
P33



P44



P45



Revisões da prancha

-		
-		
-		
-		

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

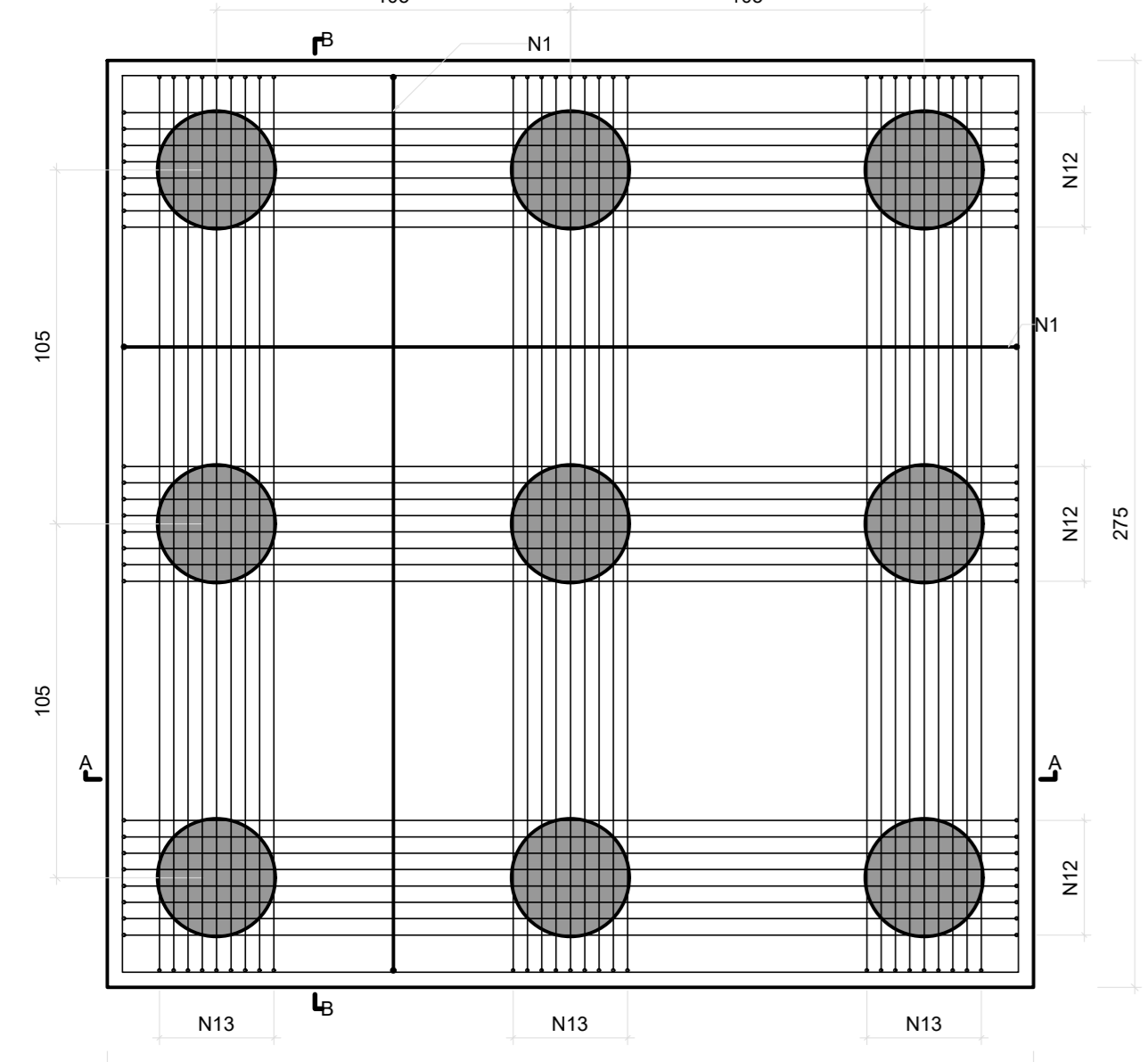
PROPRIETÁRIO  
AUTOR DO PROJETO CREA: 21.401/D-DF  
RESP. TÉCNICO

PROJETO ESTRUTURAL  
USO - INSTITUCIONAL  
CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
Conteúdo: ARMAÇÃO DOS BLOCOS DO PAVIMENTO 2' SUBSOLO (PARTE 04)  
Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

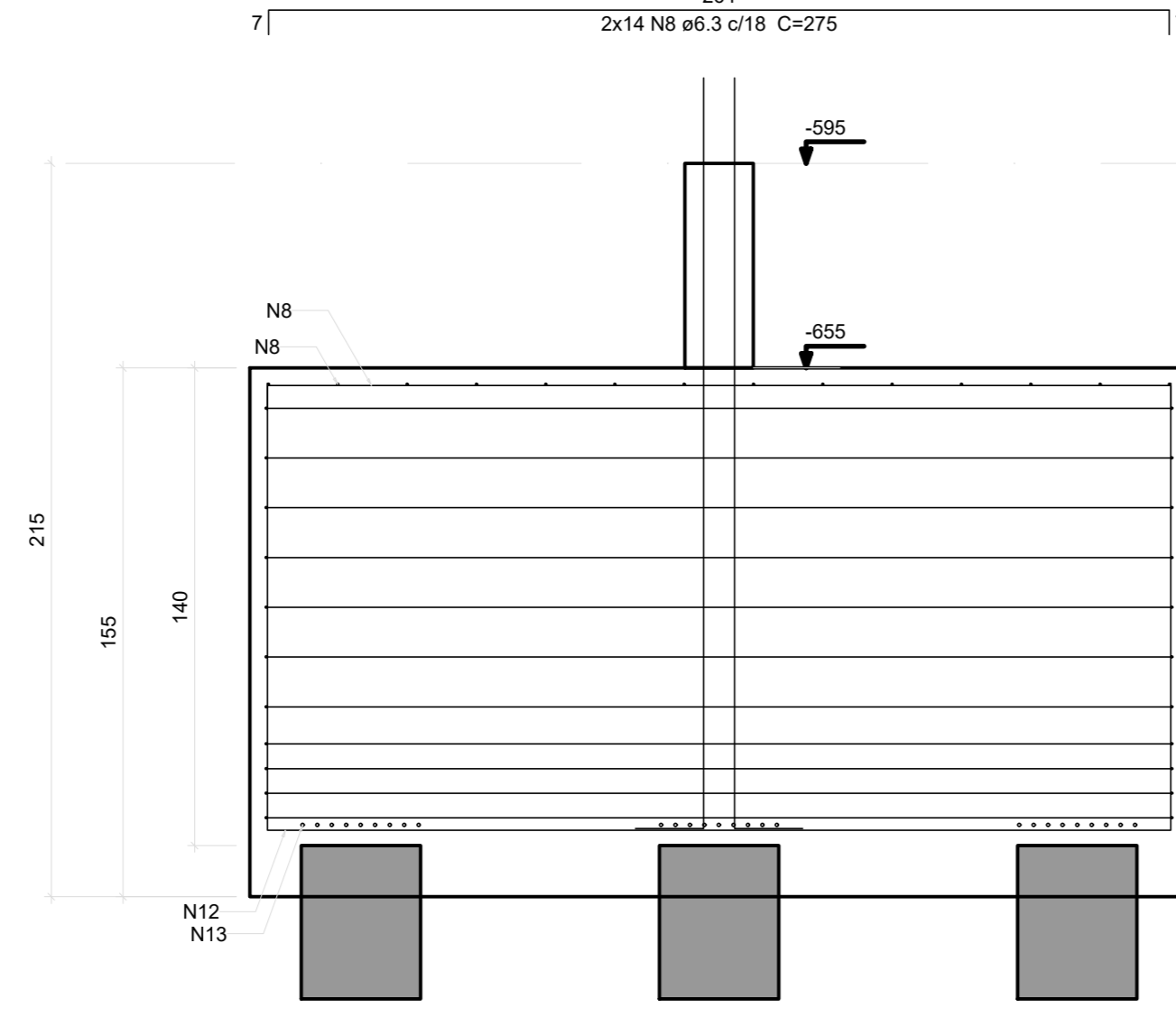
Prancha: ESTRUTURA 07/84



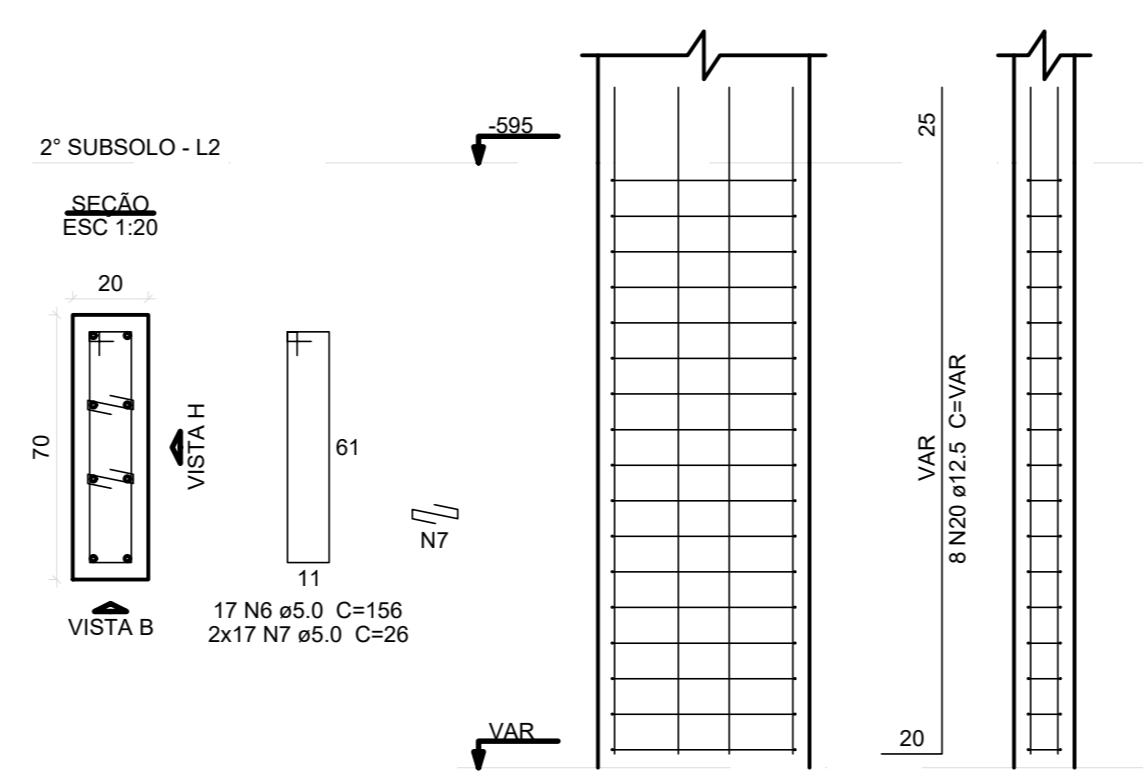
B19=B43  
9x35  
PLANTA  
ESC 1:20



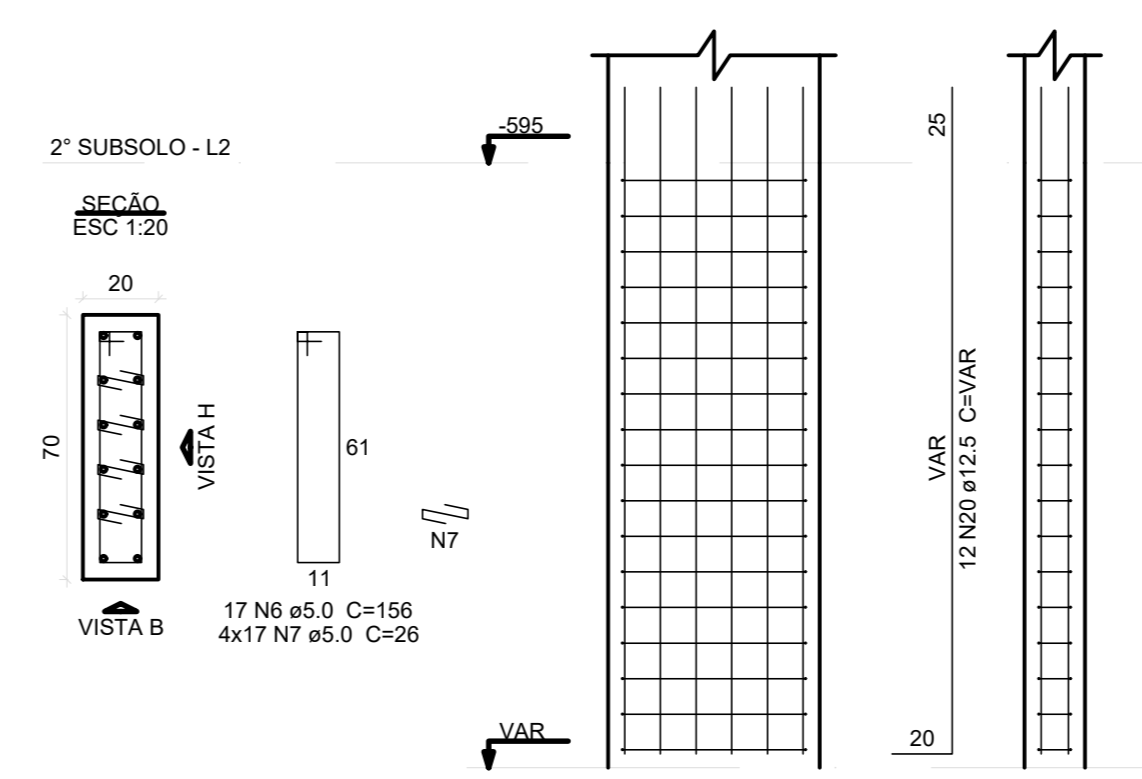
CORTE AA = CORTE B-B  
ESC 1:20



P19



P43



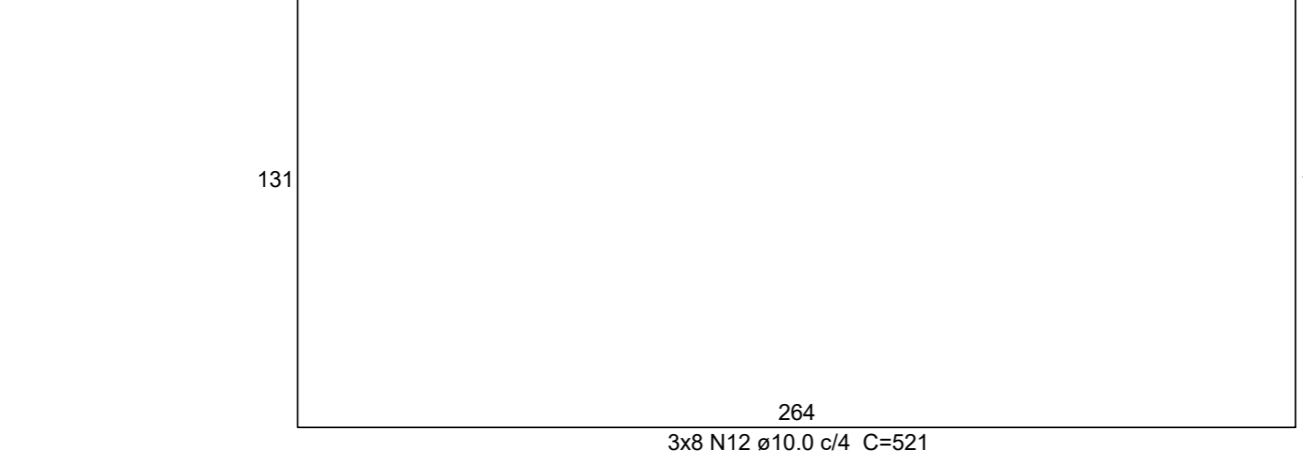
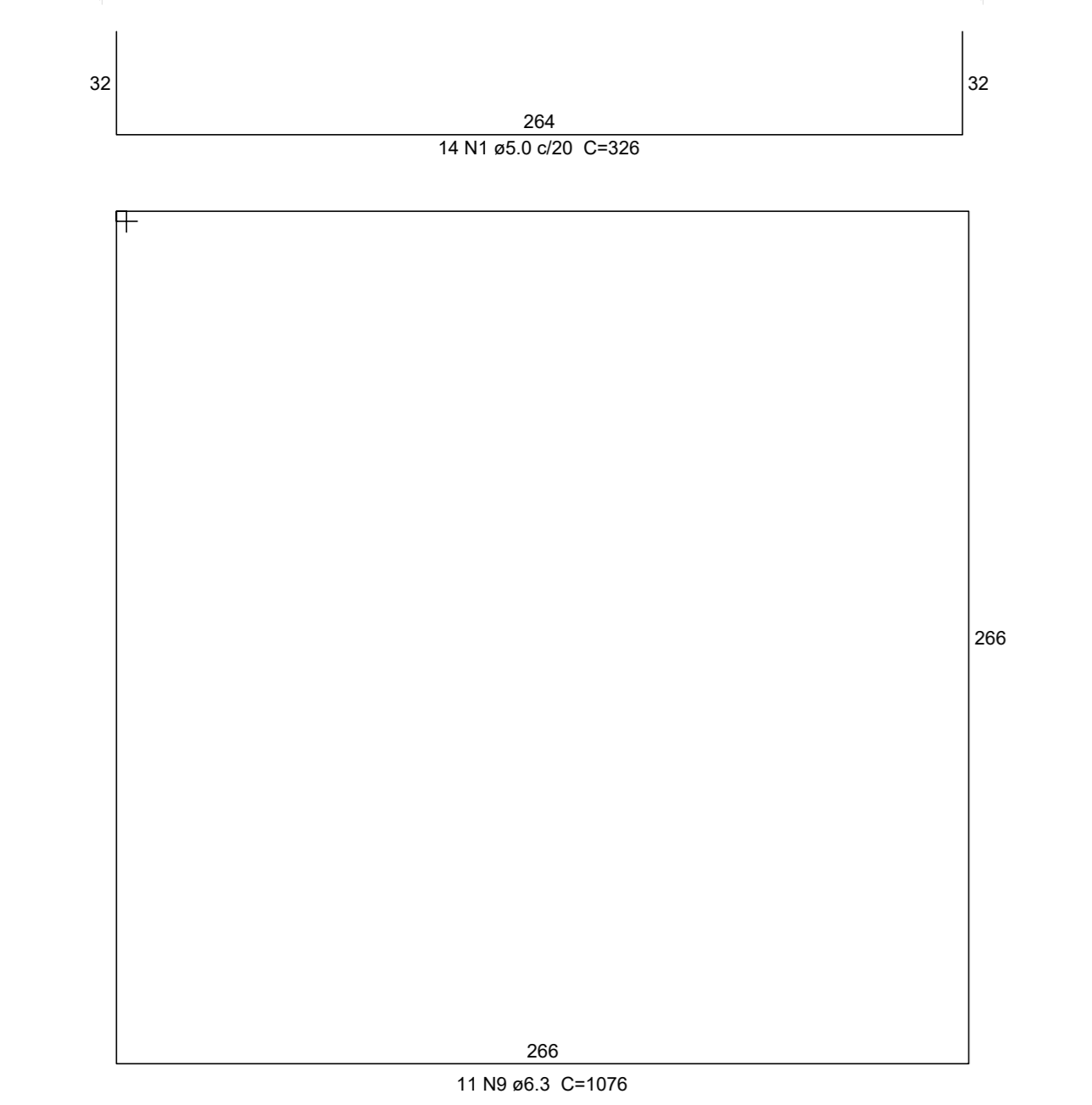
RELACÃO DO AÇO - 2ª SUBSOLO

ÁÇO	N	DIAM (mm)	QUANT	CUNTA (cm)	C.TOTAL (cm)	PESO - 10% (kg)
CA60	1	5.0	196	326	63068	
	2	5.0	68	118	8024	
	3	5.0	88	24	1632	
	4	5.0	12	168	1992	
	5	5.0	48	31	1488	
	6	5.0	74	156	11544	
	7	5.0	262	26	7332	
	8	5.0	196	156	50860	
CA50	9	6.3	83	1076	89508	
	10	10.0	72	581	41832	
	11	10.0	72	570	41668	
	12	10.0	48	521	25008	
	13	10.0	54	510	28008	
	14	12.5	30	530	15900	
	15	12.5	30	528	15840	
	16	12.5	12	VAR	VAR	
	17	12.5	12	VAR	VAR	
	18	12.5	12	VAR	VAR	
	19	12.5	16	VAR	VAR	
	20	12.5	20	VAR	VAR	
	21	16.0	18	VAR	VAR	

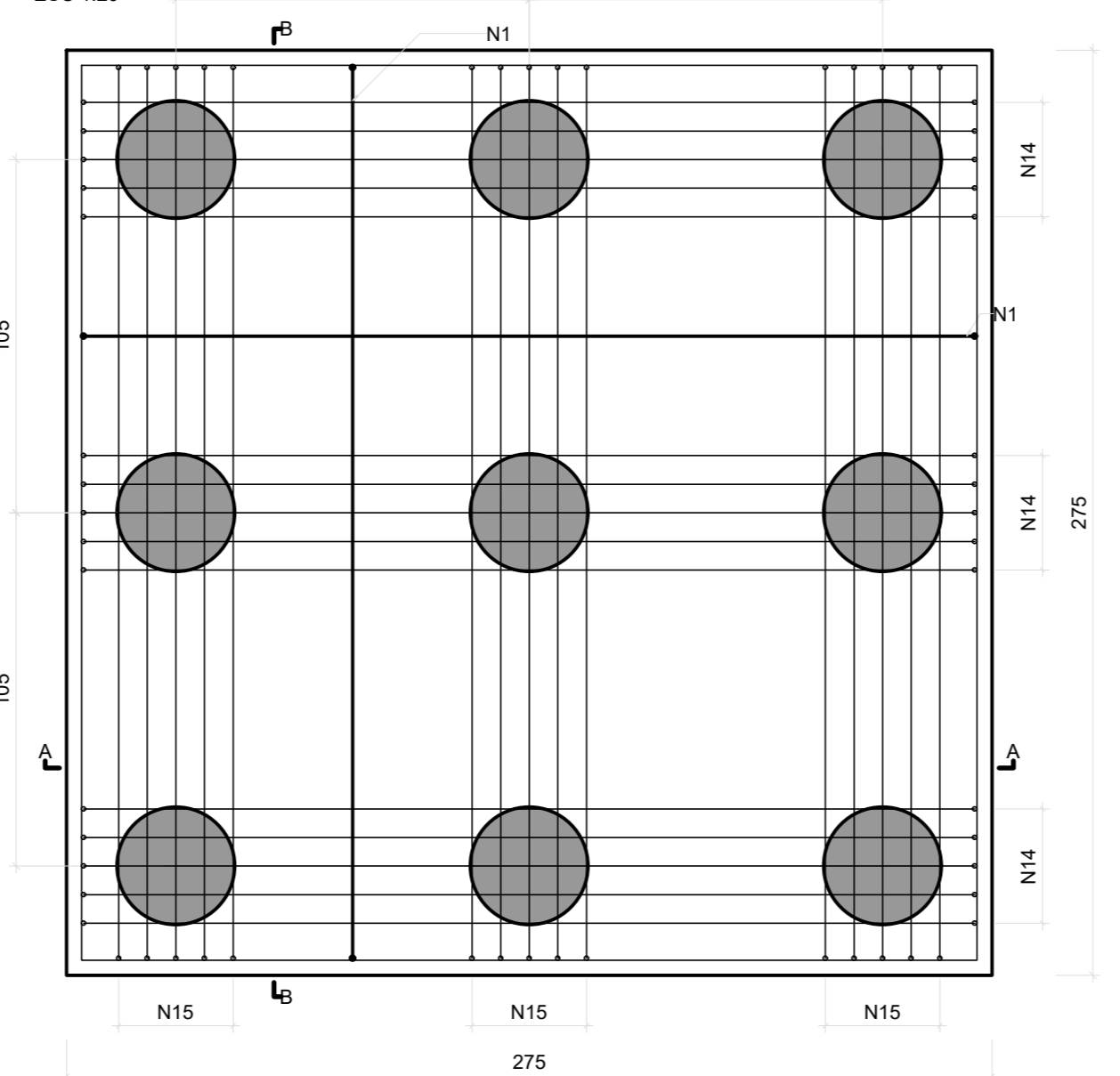
Resumo do aço

ÁÇO	DIAM (mm)	C.TOTAL (cm)	PESO - 10% (kg)
CA50	6.3	1432.1	385.5
	10.0	1385.6	905.1
	12.5	497.2	528.8
	16.0	48.1	83.4
	5.0	898.1	182.6
CA60			
CA50		1921.8	
CA60		182.6	

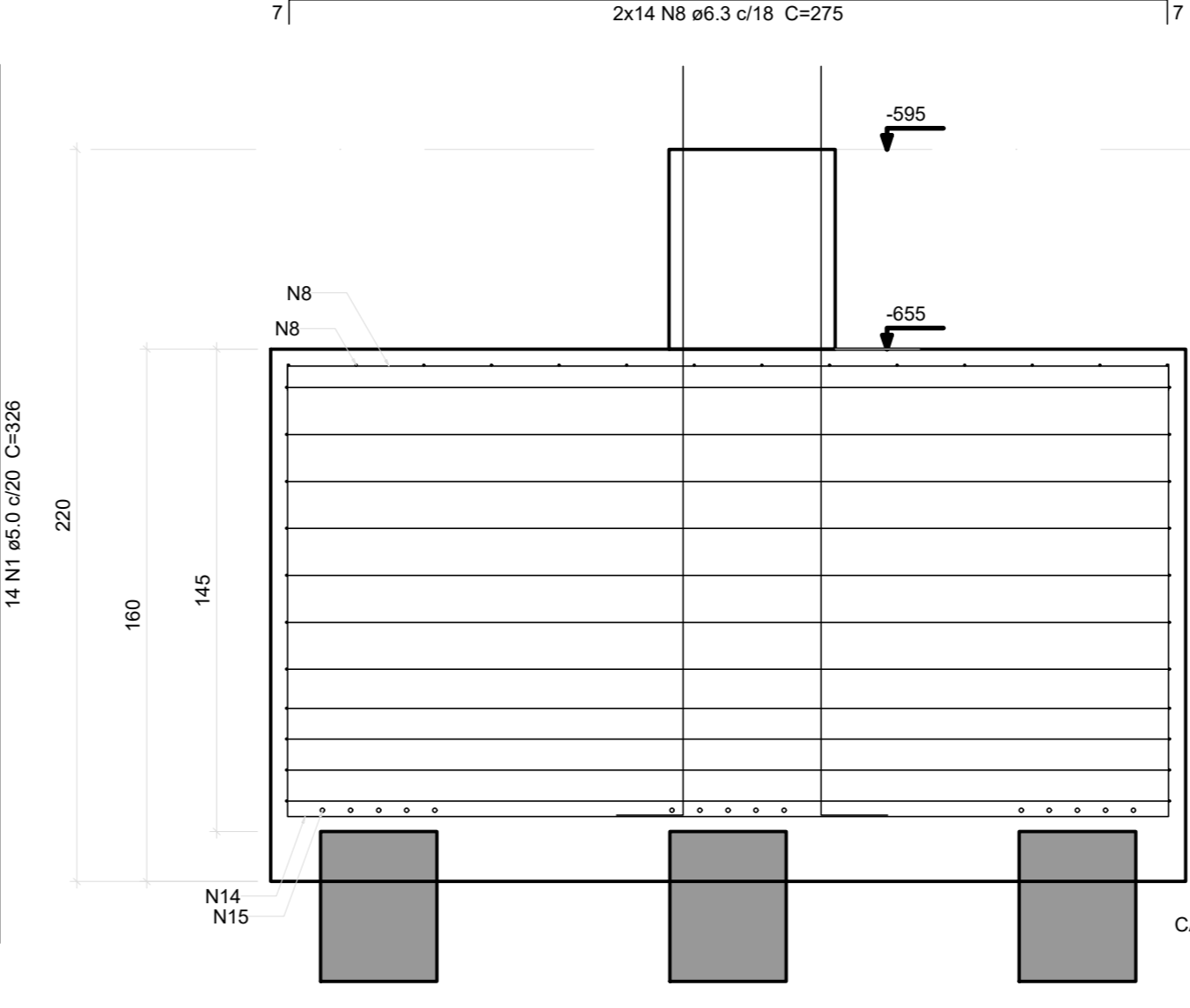
Volume de concreto (C-30) = 89.30 m³  
Área de forma = 157.91 m²



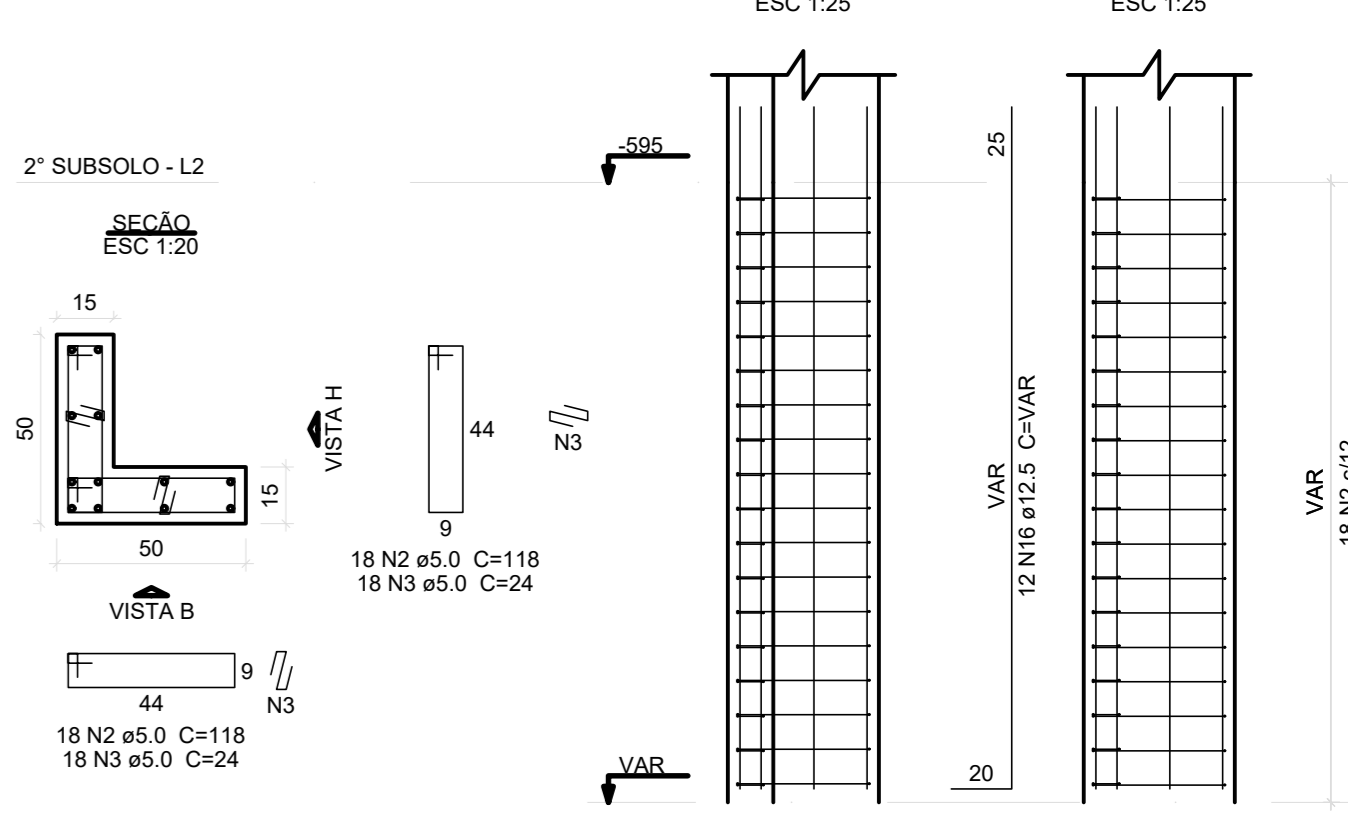
B21=B22  
9x35  
PLANTA  
ESC 1:20



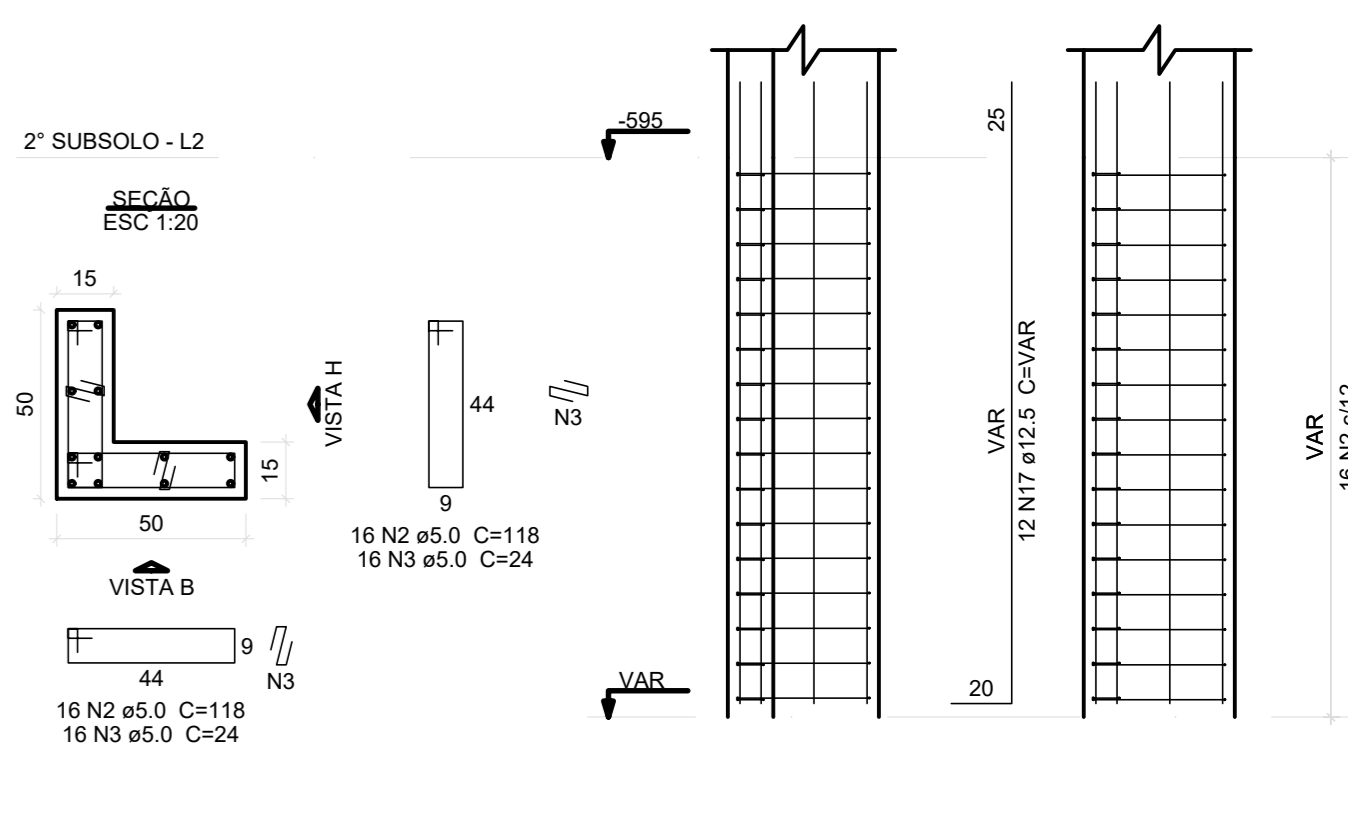
CORTE AA = CORTE B-B  
ESC 1:20



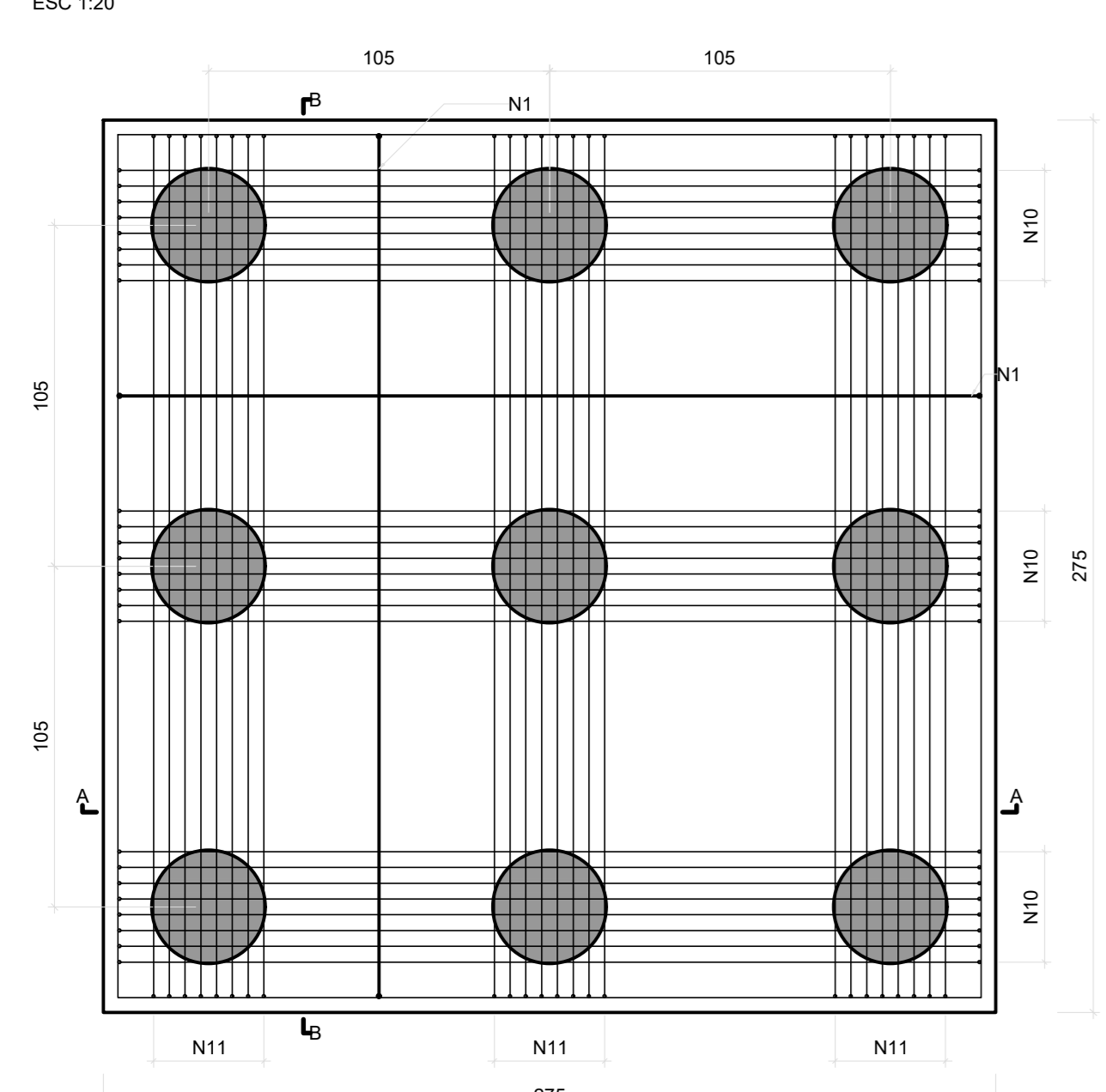
P21



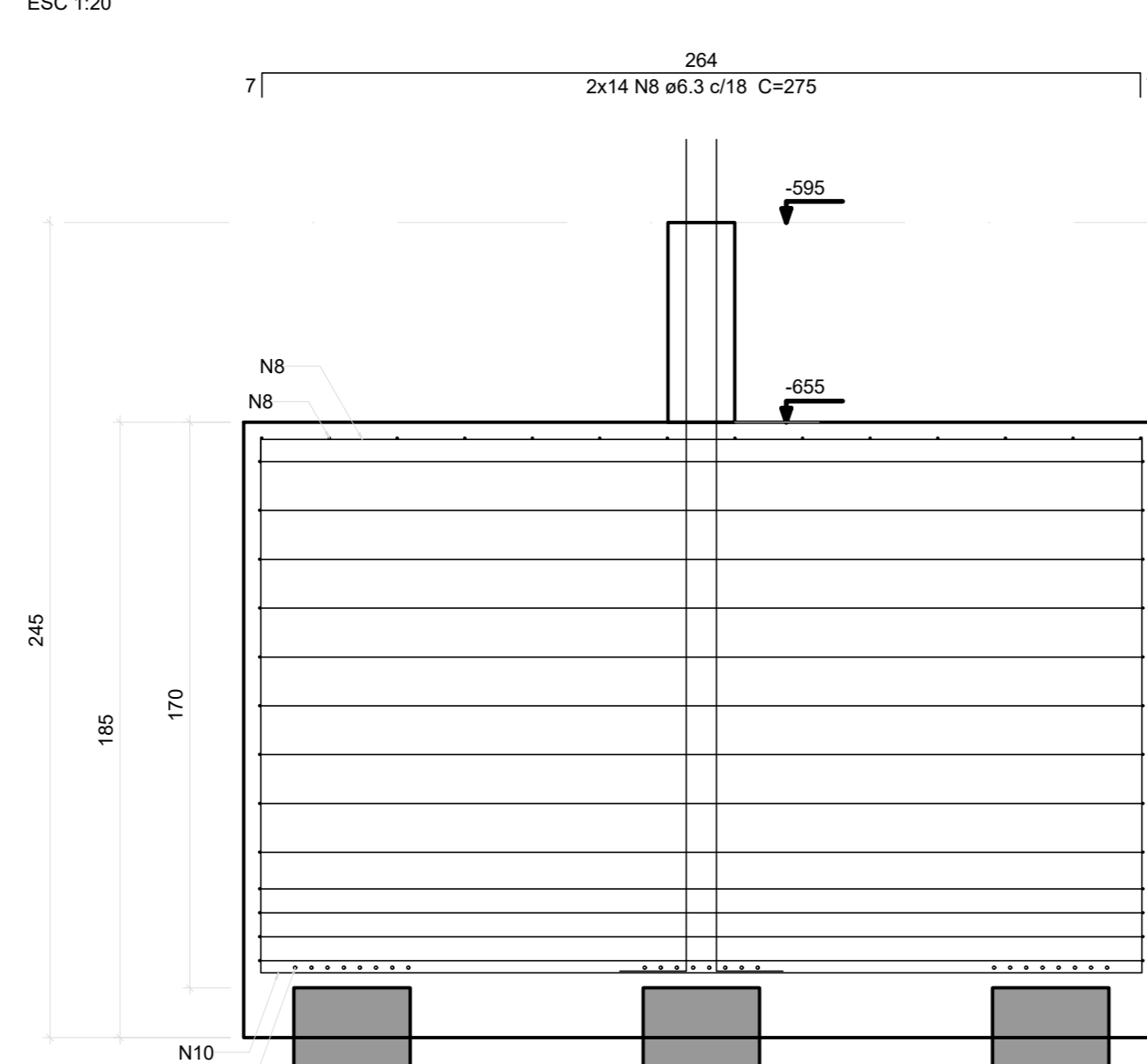
P22



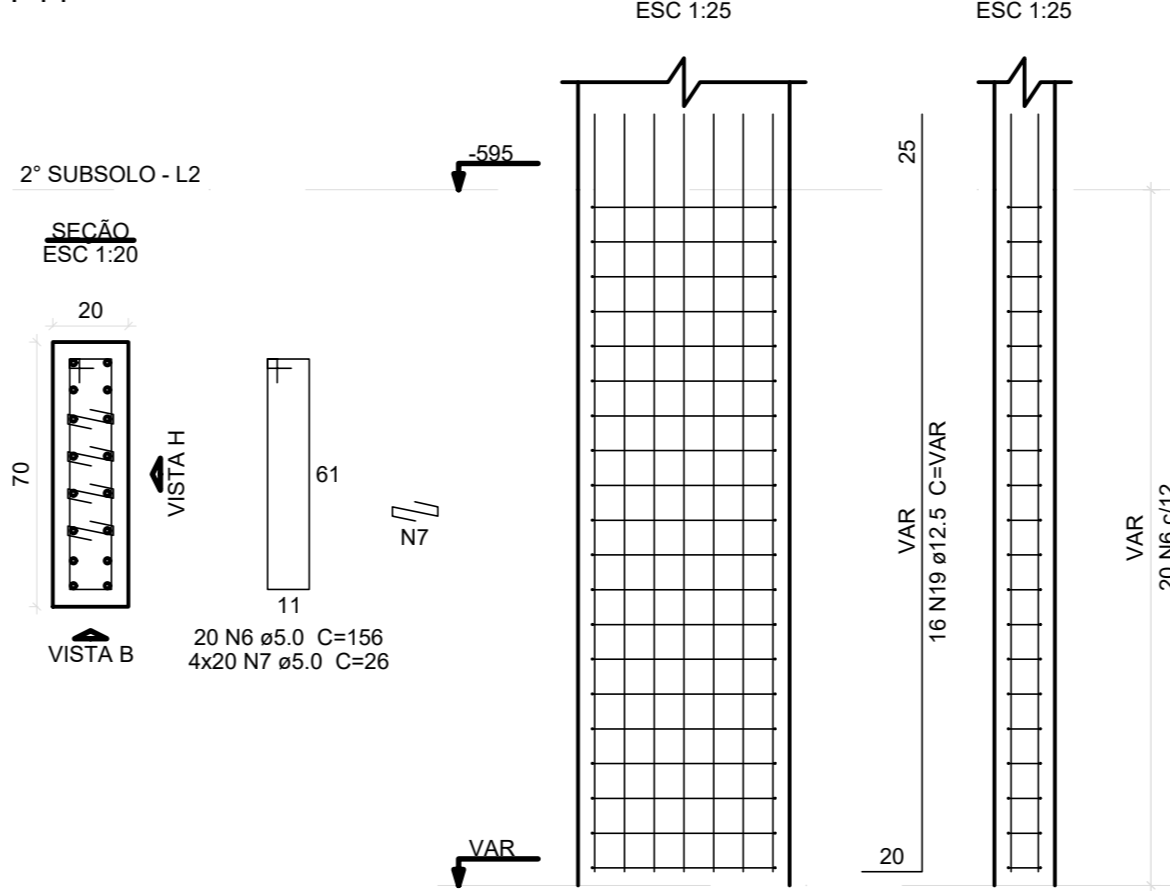
B14=B27=B42  
9x35  
PLANTA  
ESC 1:20



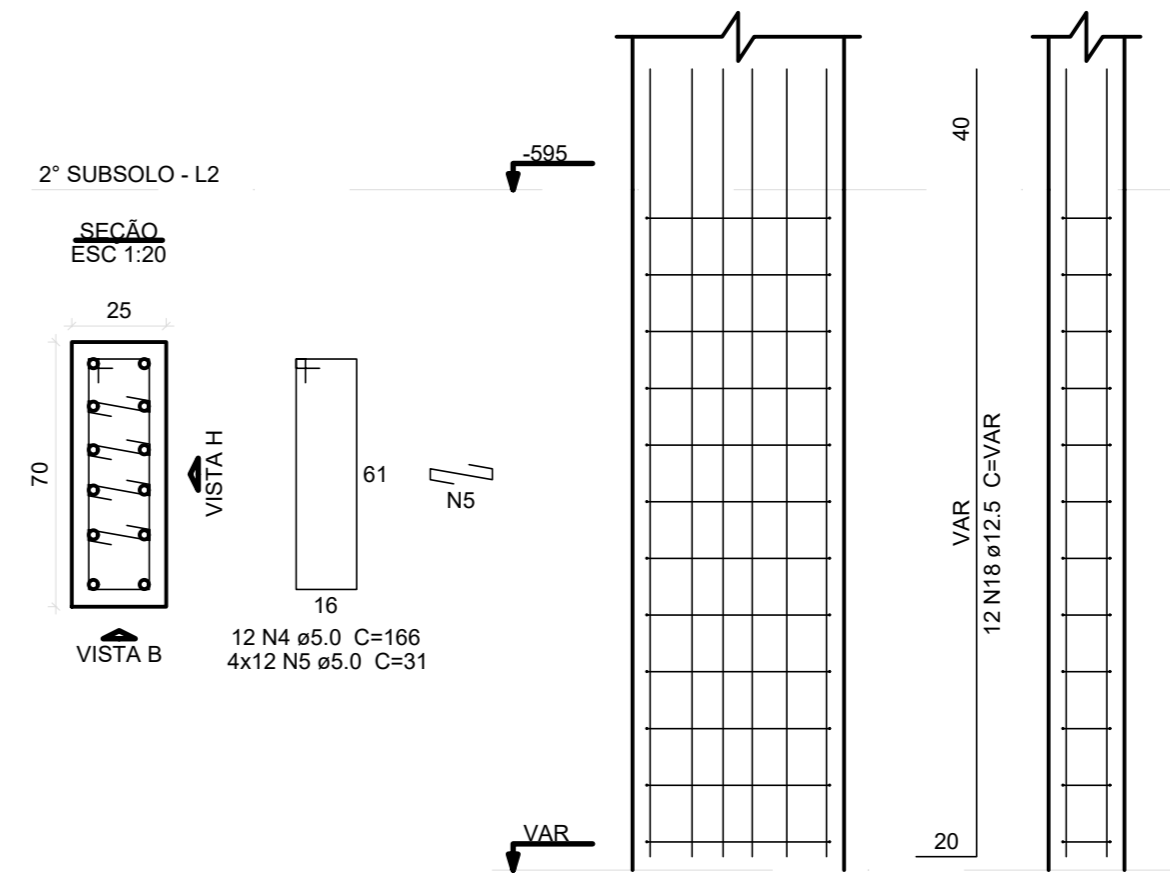
CORTE A-A = CORTE B-B  
ESC 1:20



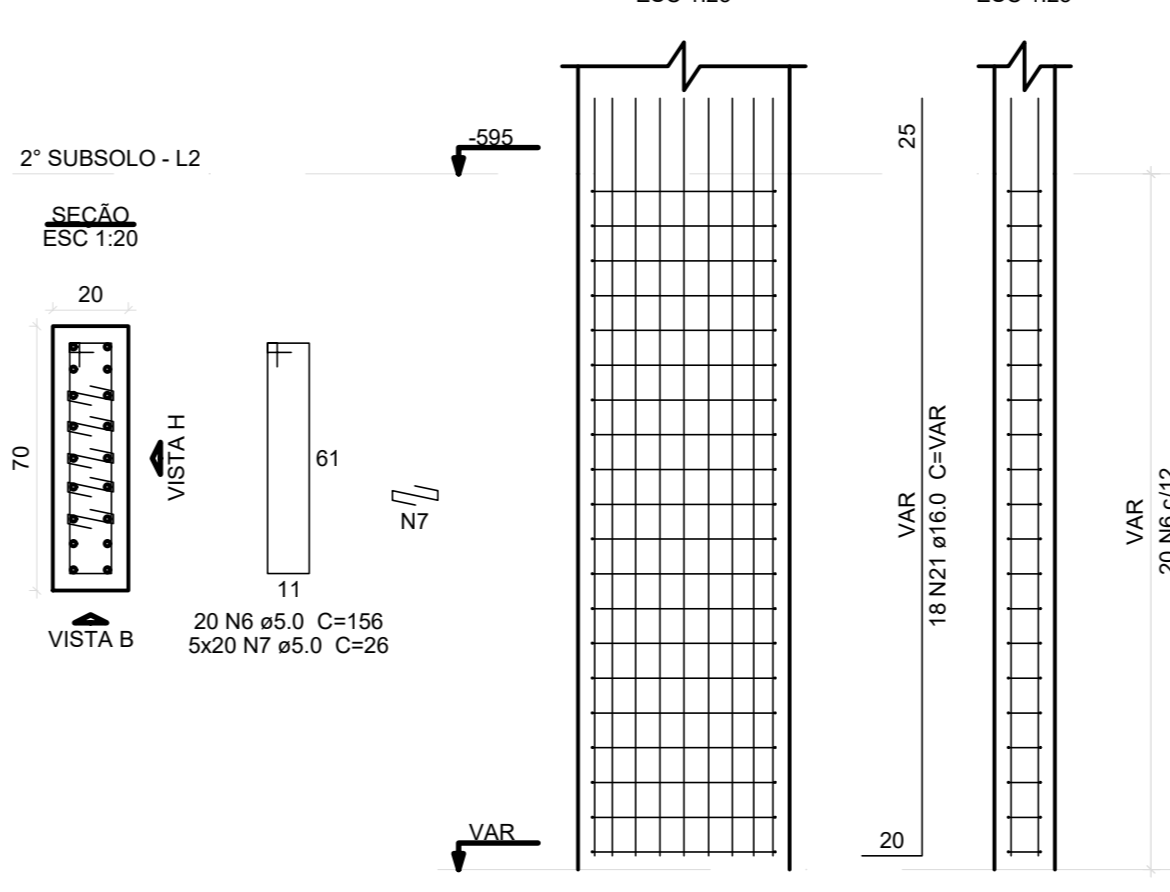
P14



P42



P27



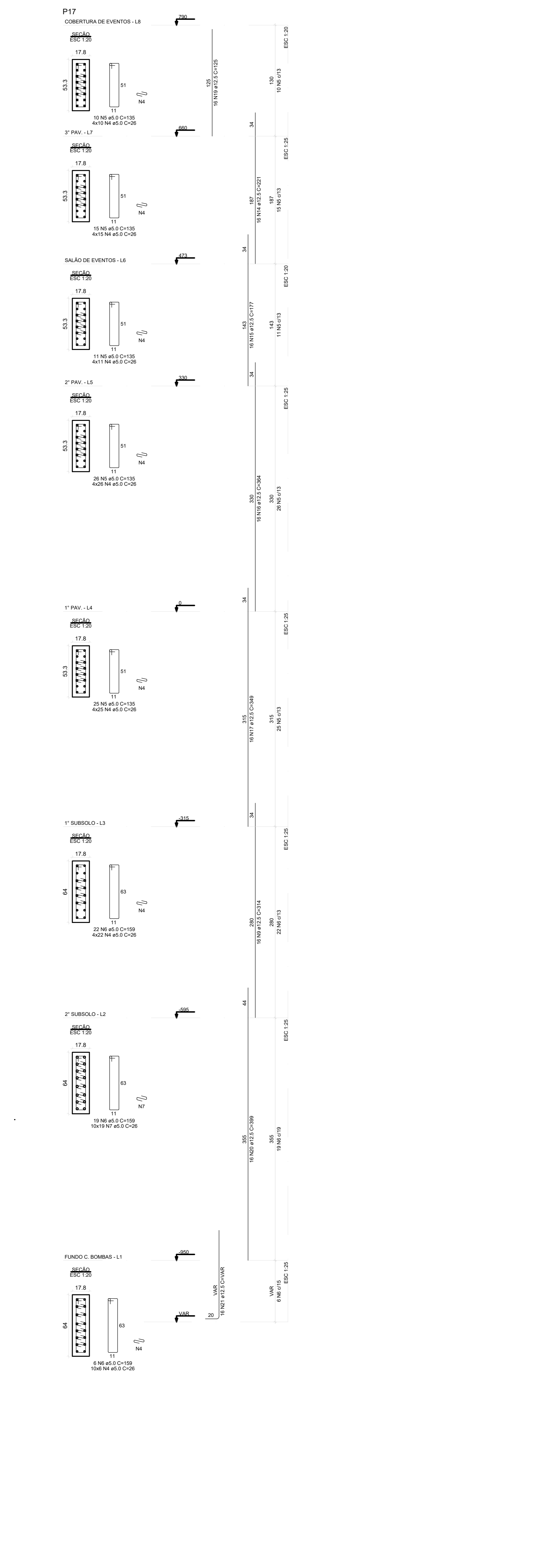
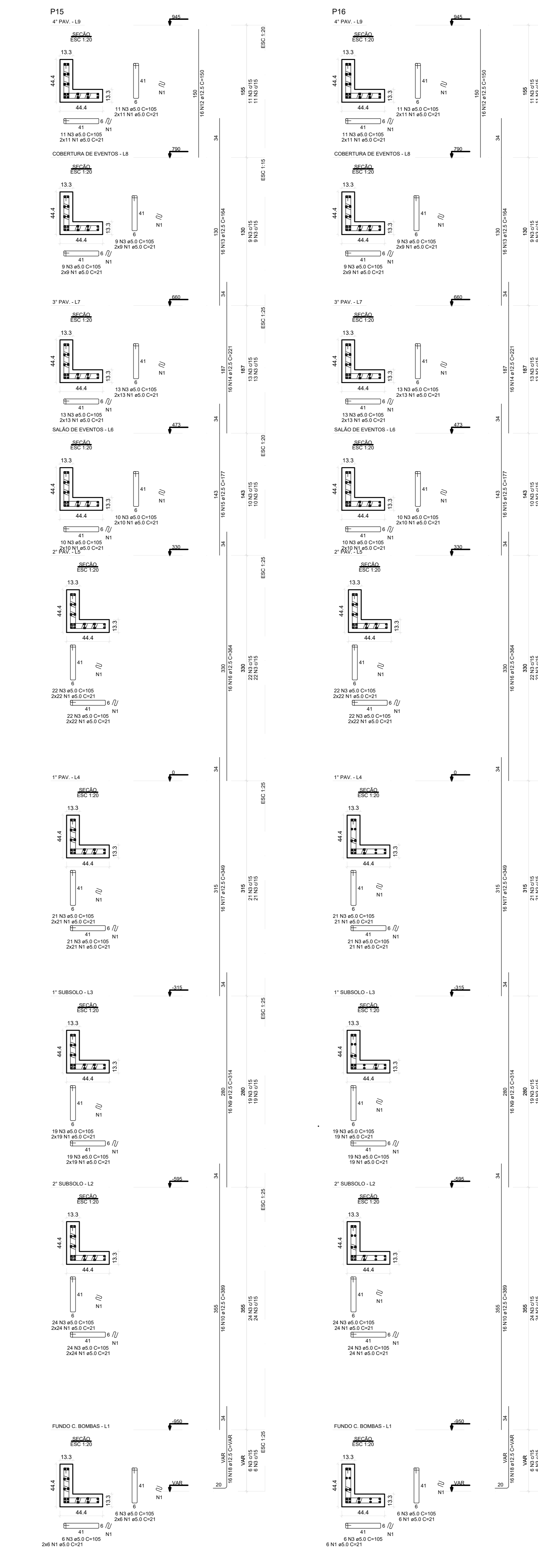
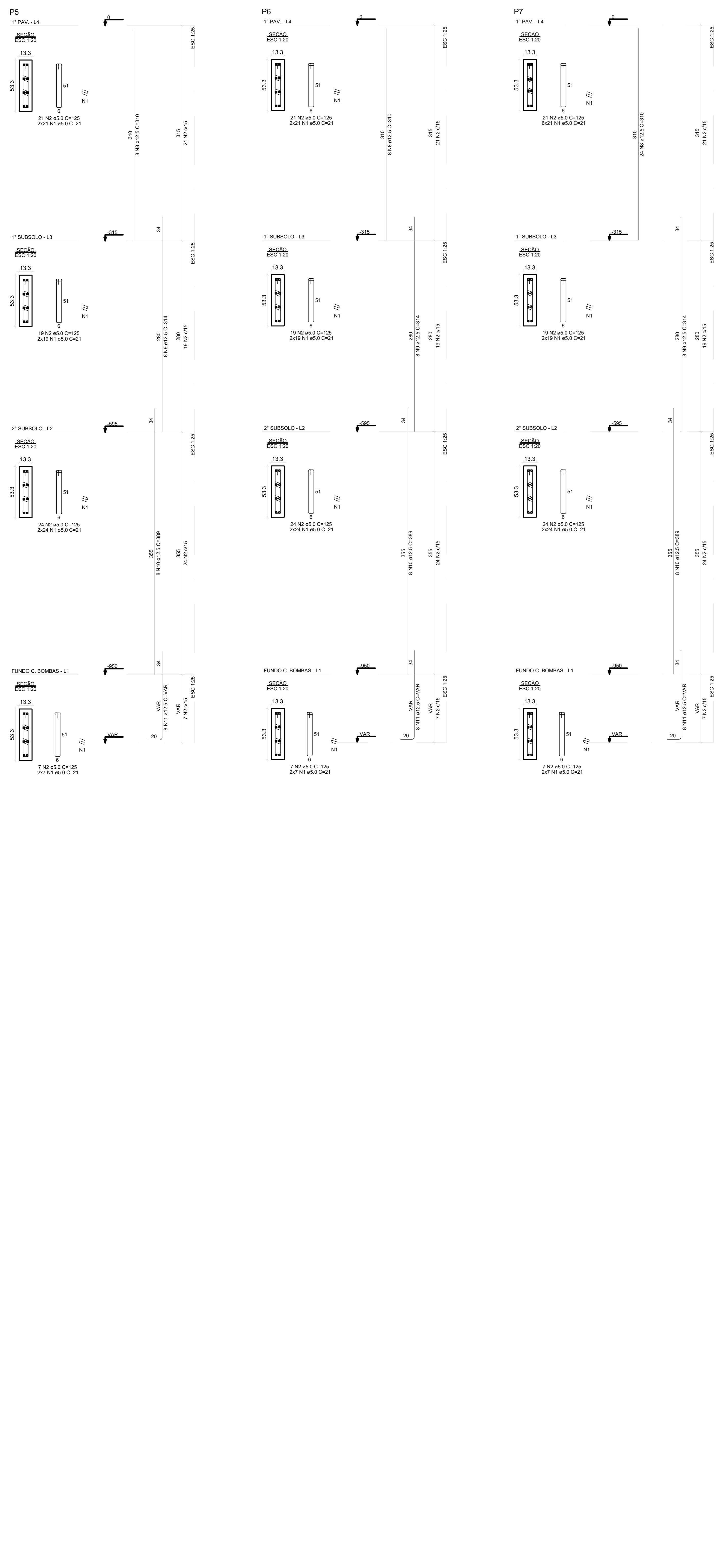
Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO  
AUTOR DO PROJETO CREA: 21.401/D-DF  
RESP. TÉCNICO



RELAÇÃO DO AÇO - Casa de Bombas

PIE	PI6	PI7	PI TOTAL
ACQ	8,0	148,7	156,7
CABO	0,0	148,7	148,7
CABO	0,0	148,7	148,7
PIE TOTAL	8,0	297,4	305,4

RESUMO DO AÇO

ACQ	DIAM (mm)	C TOTAL	PIE = 100%
ACQ	12,5	1380,3	148,7
CABO	8,0	148,7	148,7
PIE TOTAL		1529,0	297,4

Volume de concreto (C=40) = 10,04 m³  
Área de forma = 157,07 m²

Revisões da prancha

Nº	Descrição	Data
1		
2		
3		
4		

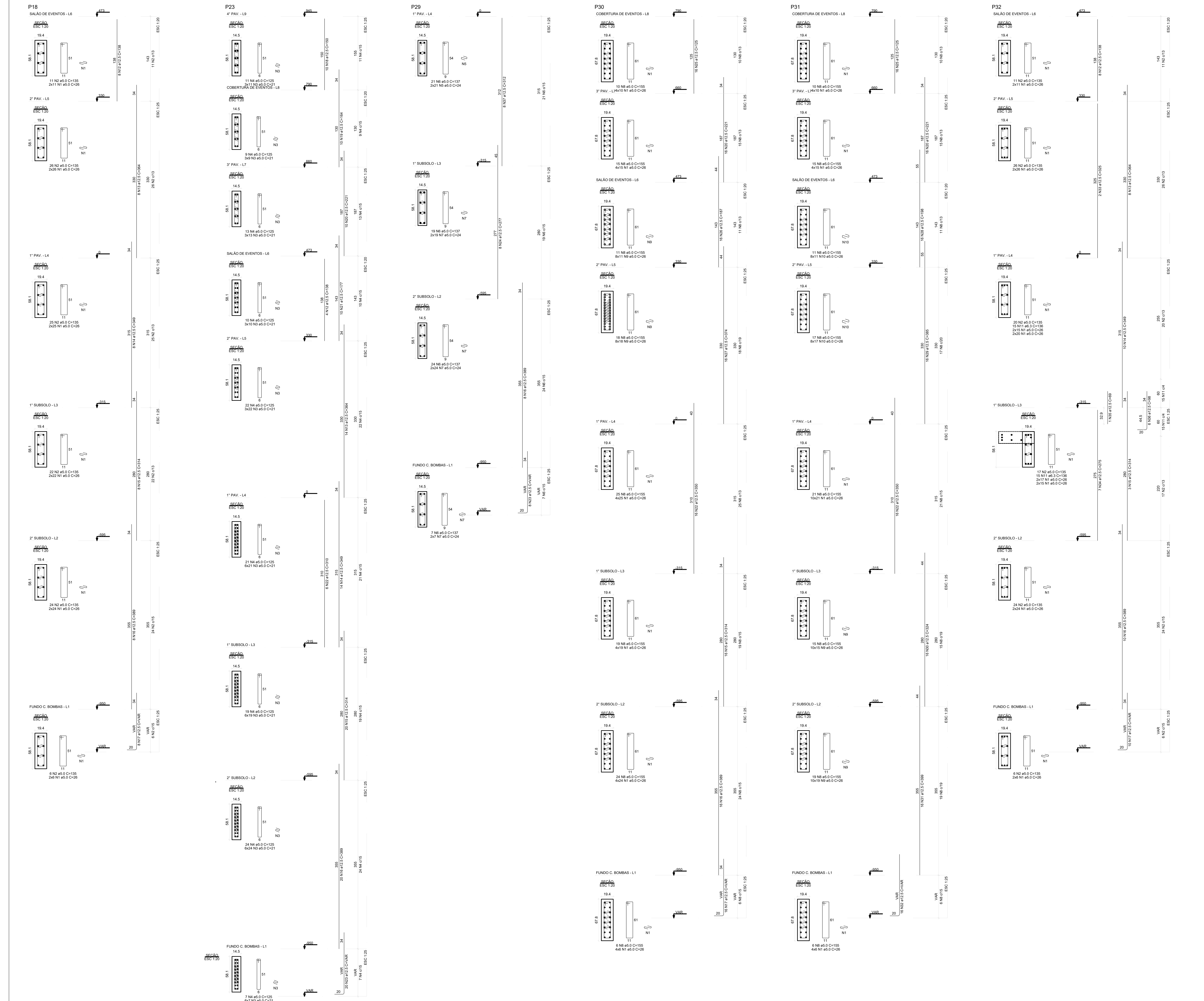
Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0,60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Conteúdo: ARMAÇÃO DOS PILARES  
 CASA DE BOMBAS (PARTE 01)  
 Data: 22/06/2022 | A. Lda: 2.000,00m² | Escala: 1/50

Prancha: ESTRUTURA 09/84



RELACÃO DO AÇO - Casa de Bombas - PARTE 02

ACQ	M	DIAM	QUANT	C.UNIT	C.TOTAL
CASO	1	11	10	100	1000
CASO	1	13	10	100	1000
CASO	1	15	10	100	1000
CASO	1	17	10	100	1000
CASO	1	19	10	100	1000
CASO	1	21	10	100	1000
CASO	1	24	10	100	1000
CASO	1	11	10	100	1000
CASO	1	13	10	100	1000
CASO	1	15	10	100	1000
CASO	1	17	10	100	1000
CASO	1	19	10	100	1000
CASO	1	21	10	100	1000
CASO	1	24	10	100	1000
CASO	1	11	10	100	1000
CASO	1	13	10	100	1000
CASO	1	15	10	100	1000
CASO	1	17	10	100	1000
CASO	1	19	10	100	1000
CASO	1	21	10	100	1000
CASO	1	24	10	100	1000
CASO	1	11	10	100	1000
CASO	1	13	10	100	1000
CASO	1	15	10	100	1000
CASO	1	17	10	100	1000
CASO	1	19	10	100	1000
CASO	1	21	10	100	1000
CASO	1	24	10	100	1000
CASO	1	11	10	100	1000
CASO	1	13	10	100	1000
CASO	1	15	10	100	1000
CASO	1	17	10	100	1000
CASO	1	19	10	100	1000
CASO	1	21	10	100	1000
CASO	1	24	10	100	1000

RESUMO DO AÇO

ACQ	M	DIAM	Q. TOTAL	PESO + 10%
CASO	1	11	100	1000
CASO	1	13	100	1000
CASO	1	15	100	1000
CASO	1	17	100	1000
CASO	1	19	100	1000
CASO	1	21	100	1000
CASO	1	24	100	1000
CASO	1	11	100	1000
CASO	1	13	100	1000
CASO	1	15	100	1000
CASO	1	17	100	1000
CASO	1	19	100	1000
CASO	1	21	100	1000
CASO	1	24	100	1000
CASO	1	11	100	1000
CASO	1	13	100	1000
CASO	1	15	100	1000
CASO	1	17	100	1000
CASO	1	19	100	1000
CASO	1	21	100	1000
CASO	1	24	100	1000
CASO	1	11	100	1000
CASO	1	13	100	1000
CASO	1	15	100	1000
CASO	1	17	100	1000
CASO	1	19	100	1000
CASO	1	21	100	1000
CASO	1	24	100	1000

Volume de concreto (C=40) = 11,27 m³  
Área de forma = 192,07 m²

Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

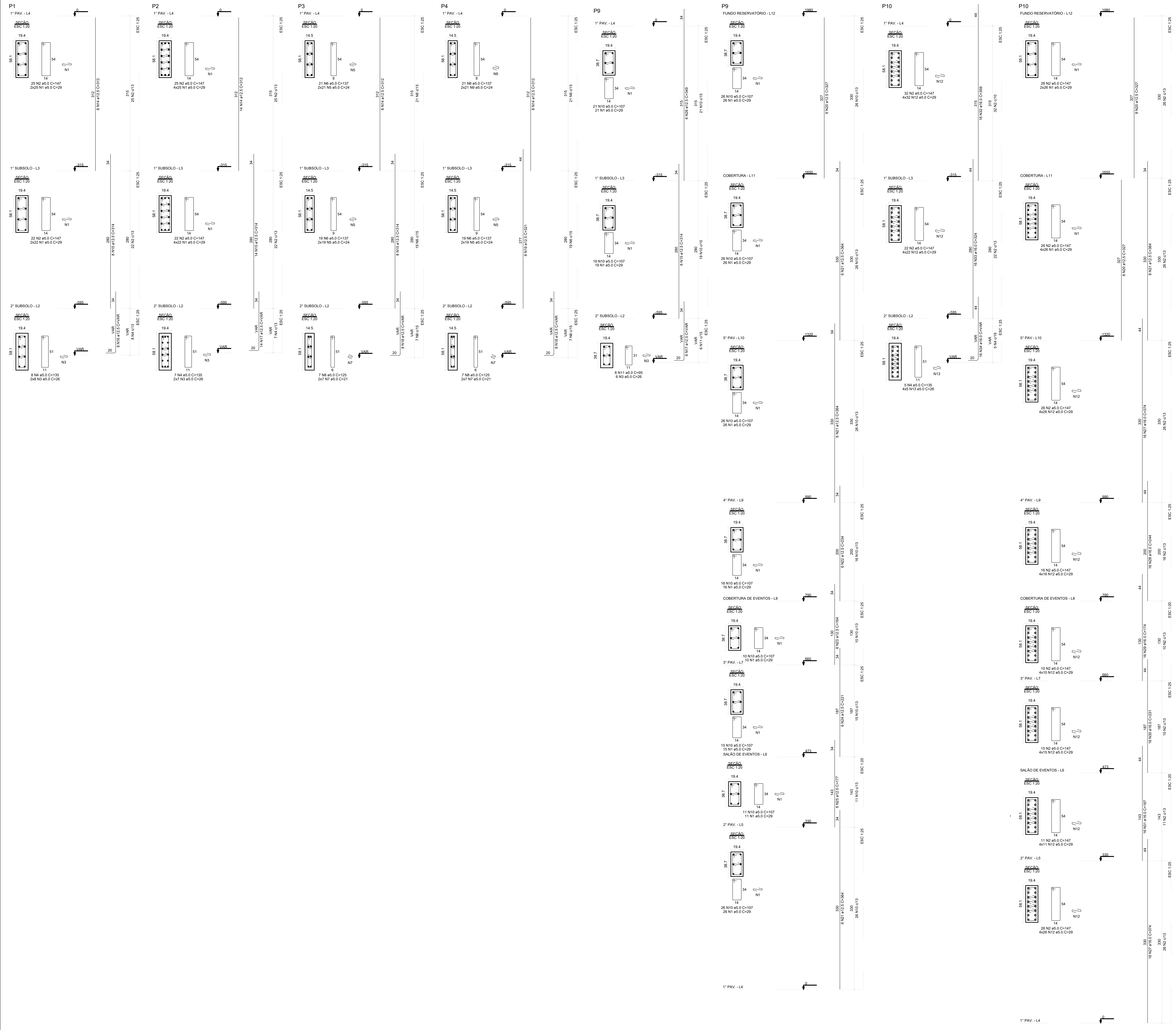
SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: F<sub>ck</sub> = 40 MPa FATOR A/C < 0,60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV. II  
 Contêido: ARMAÇÃO DOS PILARES  
 CASA DE BOMBAS (PARTE 02)  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

Prancha: ESTRUTURA 5

**10/84**



RELAÇÃO DE AÇO - Torre 01  
PARTES 01

ACD	N	DIAM (mm)	QUANT	CUBI (m³)	C TOTAL (m³)
CABO	1	3.2	334	0.00	334
CABO	2	4.0	304	0.00	304
CABO	3	5.0	252	0.00	252
CABO	4	6.3	147	0.00	147
CABO	5	8.0	107	0.00	107
CABO	6	10.0	107	0.00	107
CABO	7	12.5	107	0.00	107
CABO	8	15.0	107	0.00	107
CABO	9	18.0	107	0.00	107
CABO	10	22.0	107	0.00	107
CABO	11	28.0	107	0.00	107
CABO	12	36.0	107	0.00	107
CABO	13	45.0	107	0.00	107
CABO	14	56.0	107	0.00	107
CABO	15	70.0	107	0.00	107
CABO	16	87.5	107	0.00	107
CABO	17	108.0	107	0.00	107
CABO	18	132.0	107	0.00	107
CABO	19	160.0	107	0.00	107
CABO	20	200.0	107	0.00	107
CABO	21	250.0	107	0.00	107
CABO	22	315.0	107	0.00	107
CABO	23	400.0	107	0.00	107
CABO	24	500.0	107	0.00	107
CABO	25	630.0	107	0.00	107
CABO	26	800.0	107	0.00	107
CABO	27	1000.0	107	0.00	107
CABO	28	1250.0	107	0.00	107
CABO	29	1575.0	107	0.00	107
CABO	30	2000.0	107	0.00	107
CABO	31	2500.0	107	0.00	107
CABO	32	3150.0	107	0.00	107
CABO	33	4000.0	107	0.00	107
CABO	34	5000.0	107	0.00	107
CABO	35	6300.0	107	0.00	107
CABO	36	8000.0	107	0.00	107
CABO	37	10000.0	107	0.00	107
CABO	38	12500.0	107	0.00	107
CABO	39	15750.0	107	0.00	107
CABO	40	20000.0	107	0.00	107
CABO	41	25000.0	107	0.00	107
CABO	42	31500.0	107	0.00	107
CABO	43	40000.0	107	0.00	107
CABO	44	50000.0	107	0.00	107
CABO	45	63000.0	107	0.00	107
CABO	46	80000.0	107	0.00	107
CABO	47	100000.0	107	0.00	107
CABO	48	125000.0	107	0.00	107
CABO	49	157500.0	107	0.00	107
CABO	50	200000.0	107	0.00	107
CABO	51	250000.0	107	0.00	107
CABO	52	315000.0	107	0.00	107
CABO	53	400000.0	107	0.00	107
CABO	54	500000.0	107	0.00	107
CABO	55	630000.0	107	0.00	107
CABO	56	800000.0	107	0.00	107
CABO	57	1000000.0	107	0.00	107
CABO	58	1250000.0	107	0.00	107
CABO	59	1575000.0	107	0.00	107
CABO	60	2000000.0	107	0.00	107
CABO	61	2500000.0	107	0.00	107
CABO	62	3150000.0	107	0.00	107
CABO	63	4000000.0	107	0.00	107
CABO	64	5000000.0	107	0.00	107
CABO	65	6300000.0	107	0.00	107
CABO	66	8000000.0	107	0.00	107
CABO	67	10000000.0	107	0.00	107
CABO	68	12500000.0	107	0.00	107
CABO	69	15750000.0	107	0.00	107
CABO	70	20000000.0	107	0.00	107
CABO	71	25000000.0	107	0.00	107
CABO	72	31500000.0	107	0.00	107
CABO	73	40000000.0	107	0.00	107
CABO	74	50000000.0	107	0.00	107
CABO	75	63000000.0	107	0.00	107
CABO	76	80000000.0	107	0.00	107
CABO	77	100000000.0	107	0.00	107
CABO	78	125000000.0	107	0.00	107
CABO	79	157500000.0	107	0.00	107
CABO	80	200000000.0	107	0.00	107
CABO	81	250000000.0	107	0.00	107
CABO	82	315000000.0	107	0.00	107
CABO	83	400000000.0	107	0.00	107
CABO	84	500000000.0	107	0.00	107
CABO	85	630000000.0	107	0.00	107
CABO	86	800000000.0	107	0.00	107
CABO	87	1000000000.0	107	0.00	107
CABO	88	1250000000.0	107	0.00	107
CABO	89	1575000000.0	107	0.00	107
CABO	90	2000000000.0	107	0.00	107
CABO	91	2500000000.0	107	0.00	107
CABO	92	3150000000.0	107	0.00	107
CABO	93	4000000000.0	107	0.00	107
CABO	94	5000000000.0	107	0.00	107
CABO	95	6300000000.0	107	0.00	107
CABO	96	8000000000.0	107	0.00	107
CABO	97	10000000000.0	107	0.00	107
CABO	98	12500000000.0	107	0.00	107
CABO	99	15750000000.0	107	0.00	107
CABO	100	20000000000.0	107	0.00	107

RESUMO DO AÇO

ACD	N	DIAM (mm)	C TOTAL (m³)	PERD + 10%
CABO	1	3.2	334	367.4
CABO	2	4.0	304	334.4
CABO	3	5.0	252	277.2
CABO	4	6.3	147	161.7
CABO	5	8.0	107	117.7
CABO	6	10.0	107	117.7
CABO	7	12.5	107	117.7
CABO	8	15.0	107	117.7
CABO	9	18.0	107	117.7
CABO	10	22.0	107	117.7
CABO	11	28.0	107	117.7
CABO	12	36.0	107	117.7
CABO	13	45.0	107	117.7
CABO	14	56.0	107	117.7
CABO	15	70.0	107	117.7
CABO	16	87.5	107	117.7
CABO	17	108.0	107	117.7
CABO	18	132.0	107	117.7
CABO	19	160.0	107	117.7
CABO	20	200.0	107	117.7
CABO	21	250.0	107	117.7
CABO	22	315.0	107	117.7
CABO	23	400.0	107	117.7
CABO	24	500.0	107	117.7
CABO	25	630.0	107	117.7
CABO	26	800.0	107	117.7
CABO	27	1000.0	107	117.7
CABO	28	1250.0	107	117.7
CABO	29	1575.0	107	117.7
CABO	30	2000.0	107	117.7
CABO	31	2500.0	107	117.7
CABO	32	3150.0	107	117.7
CABO	33	4000.0	107	117.7
CABO	34	5000.0	107	117.7
CABO	35	6300.0	107	117.7
CABO	36	8000.0	107	117.7
CABO	37	10000.0	107	117.7
CABO	38	12500.0	107	117.7
CABO	39	15750.0	107	117.7
CABO	40	20000.0	107	117.7
CABO	41	25000.0	107	117.7
CABO	42	31500.0	107	117.7
CABO	43	40000.0	107	117.7
CABO	44	50000.0	107	117.7
CABO	45	63000.0	107	117.7
CABO	46	80000.0	107	117.7
CABO	47	100000.0	107	117.7
CABO	48	125000.0	107	117.7
CABO	49	157500.0	107	117.7
CABO	50	200000.0	107	117.7
CABO	51	250000.0	107	117.7
CABO	52	315000.0	107	117.7
CABO	53	400000.0	107	117.7
CABO	54	500000.0	107	117.7
CABO	55	630000.0	107	117.7
CABO	56	800000.0	107	117.7
CABO	57	1000000.0	107	117.7
CABO	58	1250000.0	107	117.7
CABO	59	1575000.0	107	117.7
CABO	60	2000000.0	107	117.7
CABO	61	2500000.0	107	117.7
CABO	62	3150000.0	107	117.7
CABO	63	4000000.0	107	117.7
CABO	64	5000000.0	107	117.7
CABO	65	6300000.0	107	117.7
CABO	66	8000000.0	107	117.7
CABO	67	10000000.0	107	117.7
CABO	68	12500000.0	107	117.7
CABO	69	15750000.0	107	117.7
CABO	70	20000000.0	107	117.7
CABO	71	25000000.0	107	117.7
CABO	72	31500000.0	107	117.7
CABO	73	40000000.0	107	117.7
CABO	74	50000000.0	107	117.7
CABO	75	63000000.0	107	117.7
CABO	76	80000000.0	107	117.7
CABO	77	100000000.0	107	117.7
CABO	78	125000000.0	107	117.7
CABO	79	157500000.0	107	117.7
CABO	80	200000000.0	107	117.7
CABO	81	250000000.0	107	117.7
CABO	82	315000000.0	107	117.7
CABO	83	400000000.0	107	117.7
CABO	84	500000000.0	107	117.7
CABO	85	630000000.0	107	117.7
CABO	86	800000000.0	107	117.7
CABO	87	1000000000.0	107	117.7
CABO	88	1250000000.0	107	117.7
CABO	89	1575000000.0	107	117.7
CABO	90	2000000000.0	107	117.7
CABO	91	2500000000.0	107	117.7
CABO	92	3150000000.0	107	117.7
CABO	93	4000000000.0	107	117.7
CABO	94	5000000000.0	107	117.7
CABO	95	6300000000.0	107	117.7
CABO	96	8000000000.0	107	117.7
CABO	97	10000000000.0	107	117.7
CABO	98	12500000000.0	107	117.7
CABO	99	15750000000.0	107	117.7
CABO	100	20000000000.0	107	117.7

Volume de concreto (C-40) = 6.02 m³  
Área de forma = 117.47 m²

Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contêúdo: ARMAÇÃO DOS PILARES  
 TORRE 01 (PARTE 01)  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1/50

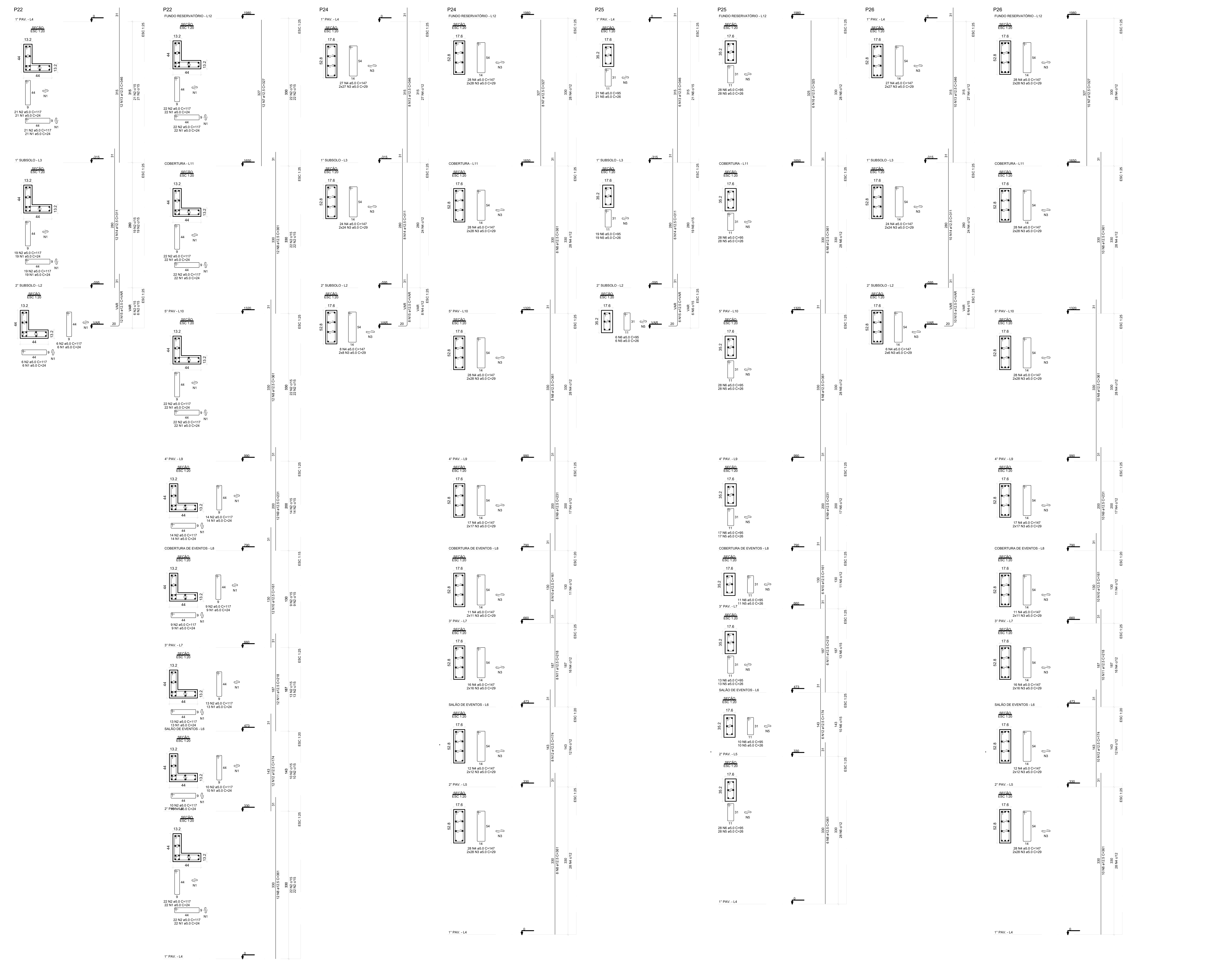
Prancha: ESTRUTURA 5  
 11/84

CASO	N	DIAM (mm)	QUANT	C. TOTAL (m)	C. TOTAL (m³)
CASO	1	10	10	10	10
CASO	2	12	12	12	12
CASO	3	14	14	14	14
CASO	4	16	16	16	16
CASO	5	18	18	18	18
CASO	6	20	20	20	20
CASO	7	22	22	22	22
CASO	8	24	24	24	24
CASO	9	26	26	26	26
CASO	10	28	28	28	28
CASO	11	30	30	30	30
CASO	12	32	32	32	32
CASO	13	34	34	34	34
CASO	14	36	36	36	36
CASO	15	38	38	38	38
CASO	16	40	40	40	40
CASO	17	42	42	42	42
CASO	18	44	44	44	44
CASO	19	46	46	46	46
CASO	20	48	48	48	48
CASO	21	50	50	50	50
CASO	22	52	52	52	52
CASO	23	54	54	54	54
CASO	24	56	56	56	56
CASO	25	58	58	58	58
CASO	26	60	60	60	60
CASO	27	62	62	62	62
CASO	28	64	64	64	64
CASO	29	66	66	66	66
CASO	30	68	68	68	68
CASO	31	70	70	70	70
CASO	32	72	72	72	72
CASO	33	74	74	74	74
CASO	34	76	76	76	76
CASO	35	78	78	78	78
CASO	36	80	80	80	80
CASO	37	82	82	82	82
CASO	38	84	84	84	84
CASO	39	86	86	86	86
CASO	40	88	88	88	88
CASO	41	90	90	90	90
CASO	42	92	92	92	92
CASO	43	94	94	94	94
CASO	44	96	96	96	96
CASO	45	98	98	98	98
CASO	46	100	100	100	100
CASO	47	102	102	102	102
CASO	48	104	104	104	104
CASO	49	106	106	106	106
CASO	50	108	108	108	108
CASO	51	110	110	110	110
CASO	52	112	112	112	112
CASO	53	114	114	114	114
CASO	54	116	116	116	116
CASO	55	118	118	118	118
CASO	56	120	120	120	120
CASO	57	122	122	122	122
CASO	58	124	124	124	124
CASO	59	126	126	126	126
CASO	60	128	128	128	128
CASO	61	130	130	130	130
CASO	62	132	132	132	132
CASO	63	134	134	134	134
CASO	64	136	136	136	136
CASO	65	138	138	138	138
CASO	66	140	140	140	140
CASO	67	142	142	142	142
CASO	68	144	144	144	144
CASO	69	146	146	146	146
CASO	70	148	148	148	148
CASO	71	150	150	150	150
CASO	72	152	152	152	152
CASO	73	154	154	154	154
CASO	74	156	156	156	156
CASO	75	158	158	158	158
CASO	76	160	160	160	160
CASO	77	162	162	162	162
CASO	78	164	164	164	164
CASO	79	166	166	166	166
CASO	80	168	168	168	168
CASO	81	170	170	170	170
CASO	82	172	172	172	172
CASO	83	174	174	174	174
CASO	84	176	176	176	176
CASO	85	178	178	178	178
CASO	86	180	180	180	180
CASO	87	182	182	182	182
CASO	88	184	184	184	184
CASO	89	186	186	186	186
CASO	90	188	188	188	188
CASO	91	190	190	190	190
CASO	92	192	192	192	192
CASO	93	194	194	194	194
CASO	94	196	196	196	196
CASO	95	198	198	198	198
CASO	96	200	200	200	200
CASO	97	202	202	202	202
CASO	98	204	204	204	204
CASO	99	206	206	206	206
CASO	100	208	208	208	208
CASO	101	210	210	210	210
CASO	102	212	212	212	212
CASO	103	214	214	214	214
CASO	104	216	216	216	216
CASO	105	218	218	218	218
CASO	106	220	220	220	220
CASO	107	222	222	222	222
CASO	108	224	224	224	224
CASO	109	226	226	226	226
CASO	110	228	228	228	228
CASO	111	230	230	230	230
CASO	112	232	232	232	232
CASO	113	234	234	234	234
CASO	114	236	236	236	236
CASO	115	238	238	238	238
CASO	116	240	240	240	240
CASO	117	242	242	242	242
CASO	118	244	244	244	244
CASO	119	246	246	246	246
CASO	120	248	248	248	248
CASO	121	250	250	250	250
CASO	122	252	252	252	252
CASO	123	254	254	254	254
CASO	124	256	256	256	256
CASO	125	258	258	258	258
CASO	126	260	260	260	260
CASO	127	262	262	262	262
CASO	128	264	264	264	264
CASO	129	266	266	266	266
CASO	130	268	268	268	268
CASO	131	270	270	270	270
CASO	132	272	272	272	272
CASO	133	274	274	274	274
CASO	134	276	276	276	276
CASO	135	278	278	278	278
CASO	136	280	280	280	280
CASO	137	282	282	282	282
CASO	138	284	284	284	284
CASO	139	286	286	286	286
CASO	140	288	288	288	288
CASO	141	290	290	290	290
CASO	142	292	292	292	292
CASO	143	294	294	294	294
CASO	144	296	296	296	296
CASO	145	298	298	298	298
CASO	146	300	300	300	300
CASO	147	302	302	302	302
CASO	148	304	304	304	304
CASO	149	306	306	306	306
CASO	150	308	308	308	308
CASO	151	310	310	310	310
CASO	152	312	312	312	312
CASO	153	314	314	314	314
CASO	154	316	316	316	316
CASO	155	318	318	318	318
CASO	156	320	320	320	320
CASO	157	322	322	322	322
CASO	158	324	324	324	324
CASO	159	326	326	326	326
CASO	160	328	328	328	328
CASO	161	330	330	330	330
CASO	162	332	332	332	332
CASO	163	334	334	334	334
CASO	164	336	336	336	336
CASO	165	338	338	338	338
CASO	166	340	340	340	340
CASO	167	342	342	342	342
CASO	168	344	344	344	344
CASO	169	346	346	346	346
CASO	170	348	348	348	348
CASO	171	350	350	350	350
CASO	172	352	352	352	352
CASO	173	354	354	354	354
CASO	174	356	356	356	356
CASO	175	358	358	358	358
CASO	176	360	360	360	360
CASO	177	362	362	362	362
CASO	178	364	364	364	364
CASO	179	366	366	366	366
CASO	180	368	368	368	368
CASO	181	370	370	370	370
CASO	182	372	372	372	372
CASO	183	374	374	374	374
CASO	184	376	376	376	376
CASO	185	378	378	378	378
CASO	186	380	380	380	380
CASO	187	382	382	382	382
CASO	188	384	384	384	384
CASO	189	386	386	386	386
CASO	190	388	388	388	388
CASO	191	390	390	390	390
CASO	192	392	392	392	392
CASO	193	394	394	394	394
CASO	194	396	396	396	396
CASO	195	398	398	398	398
CASO	196	400	400	400	400
CASO	197	402	402	402	402
CASO	198	404	404	404	404
CASO	199	406	406	406	406
CASO	200	408	408	408	408
CASO	201	410	410	410	410
CASO	202	412	412	412	412
CASO	203	414	414	414	414
CASO	204	416	416	416	416
CASO	205	418	418	418	418
CASO	206	420	420	420	420
CASO	207	422	422	422	422
CASO	208	424	424	424	424
CASO	209	426	426	426	426
CASO	210	428	428	428	428
CASO	211	430	430	430	430
CASO	212	432	432	432	432
CASO	213	434	434	434	434
CASO	214	436	436	436	436
CASO	215	438	438	438	438
CASO	216	440	440	440	440
CASO	217	442	442	442	442
CASO	218	444	444	444	444
CASO	219	446	446	446	446
CASO	220	448	448	448	448
CASO	221	450	450	450	450
CASO	222	452	452	452	452
CASO	223	454	454	454	454
CASO	224	456	456	456	456
CASO	225	458	458	458	458
CASO	226	460	460	460	460
CASO	227	462	462	462	462
CASO	228	464	464	464	464
CASO	229	466	466	466	466
CASO	230	468	468	468	468
CASO	231	470	470	470	470
CASO	232	472	472	472	472
CASO	233	474	474	474	474
CASO	234	476	476	476	476
CASO	235	478	478	478	478
CASO	236	480	480	480	480
CASO	237	482	482	482	482
CASO	238	484	484	484	484
CASO	239	486	486	486	486
CASO	240	488	488	488	488
CASO	241	490	490	490	

ACQ	N	DIAM (mm)	QUANT	C TOTAL (cm)	C TOTAL (cm)
CABO	2	6.0	360	216	3600
CABO	4	6.0	360	432	4320
CABO	6	6.0	452	147	8644
CABO	8	6.0	360	56	5424
CABO	10	6.0	309	65	1865
CABO	12	6.0	108	31	3918
CABO	14	6.0	36	23	1018
CABO	16	6.0	36	161	5196
CABO	18	6.0	36	216	6768
CABO	20	6.0	36	174	6384
CABO	22	6.0	36	366	13464
CABO	24	6.0	36	311	11196
CABO	26	6.0	36	165	4968
CABO	28	6.0	36	103	3288

ACQ	DIAM (mm)	C TOTAL (cm)	PREÇO (R\$)	%
CABO	6.0	1074.3	112587	100
PREÇO TOTAL			112587	
CABO	138.6		286	

Volume de concreto (C-40) = 11.70 m³  
Área de forma = 170.06 m²



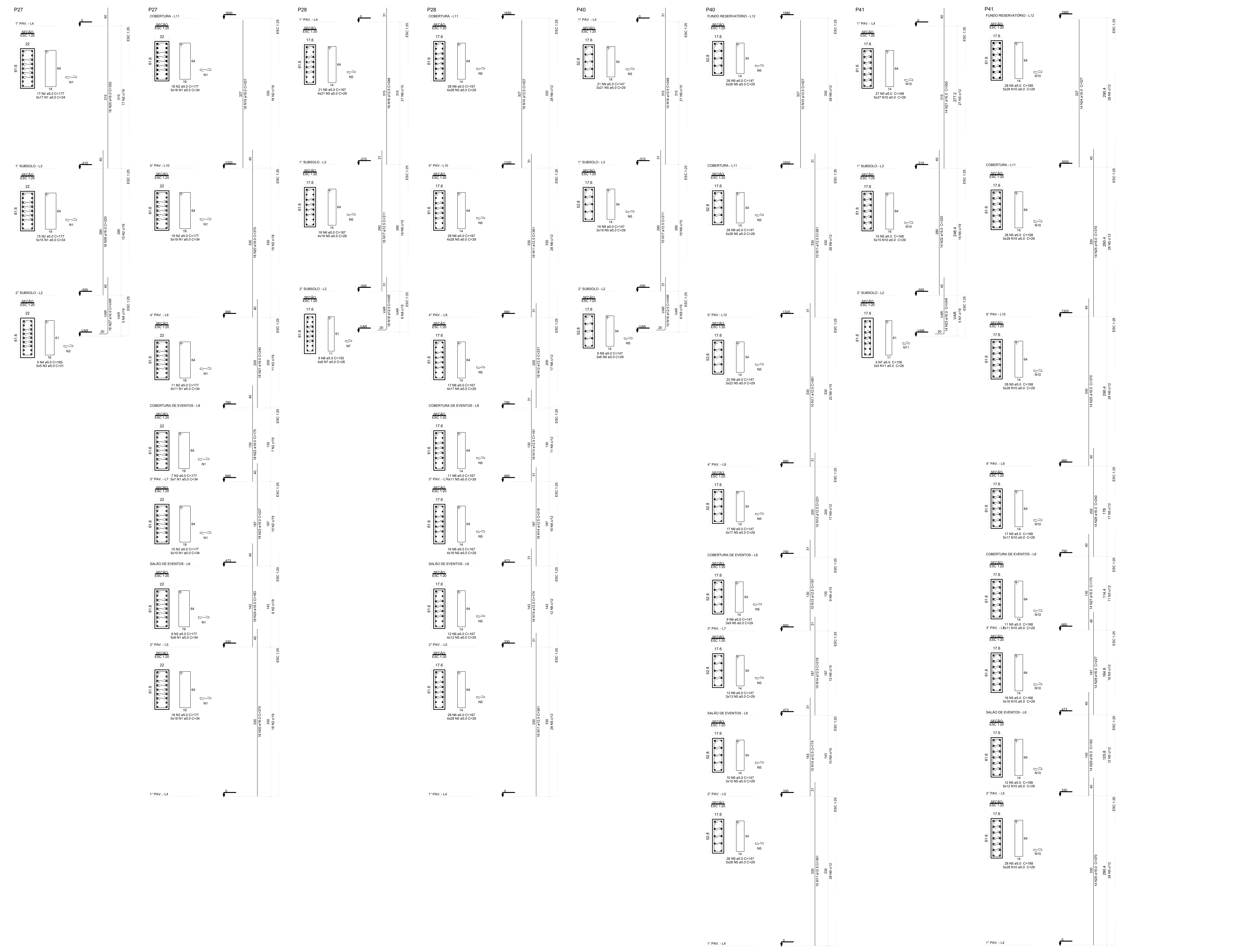
Revisões da prancha		
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Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO: \_\_\_\_\_  
 AUTOR DO PROJETO: \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO: \_\_\_\_\_

PROJETO ESTRUTURAL	USO - INSTITUCIONAL
CONCRETO: Fck = 40 MPa	FATOR A/C < 0.60
CONCRETO CLASSE C40	CLASSE AGRESSIV: II
Conteúdo:	ARMAÇÃO DOS PILARES
	TORRE 01 (PARTE 03)



CAO	N	DIAM (mm)	QUANT	C UNIT (cm)	C TOTAL (cm)
CAO0	1	5.0	123	178	21884
CAO0	2	5.0	615	34	20910
CAO0	3	5.0	5	166	830
CAO0	4	5.0	26	31	775
CAO0	5	5.0	390	168	65520
CAO0	6	5.0	1323	29	38367
CAO0	7	5.0	11	156	1716
CAO0	8	5.0	24	26	624
CAO0	9	5.0	201	148	29748
CAO0	10	5.0	1050	29	30450
CAO0	11	5.0	19	26	390
CAO0	12	12.5	26	148	3808
CAO0	13	12.5	26	311	8086
CAO0	14	12.5	26	VAR	VAR
CAO0	15	12.5	26	327	8502
CAO0	16	12.5	62	361	22362
CAO0	17	12.5	26	231	6006
CAO0	18	12.5	26	161	4186
CAO0	19	12.5	26	218	5668
CAO0	20	12.5	26	174	4524
CAO0	21	16.0	32	355	11360
CAO0	22	16.0	32	320	10240
CAO0	23	16.0	32	VAR	VAR
CAO0	24	16.0	32	327	10664
CAO0	25	16.0	78	370	28860
CAO0	26	16.0	32	240	7680
CAO0	27	16.0	32	170	5440
CAO0	28	16.0	32	227	7264
CAO0	29	16.0	32	183	5856

**Resumo do aço**

CAO	DIAM (mm)	C TOTAL (m)	PESO = 10% (kg)
CAO0	5.0	2112.3	781.2
CAO0	5.0	2112.3	1592.3
CAO0 TOTAL			358.1

CAO0 2353.4  
CAO0 358.1  
Volume de concreto (C=40) = 14.11 m³  
Área de forma = 177 m²

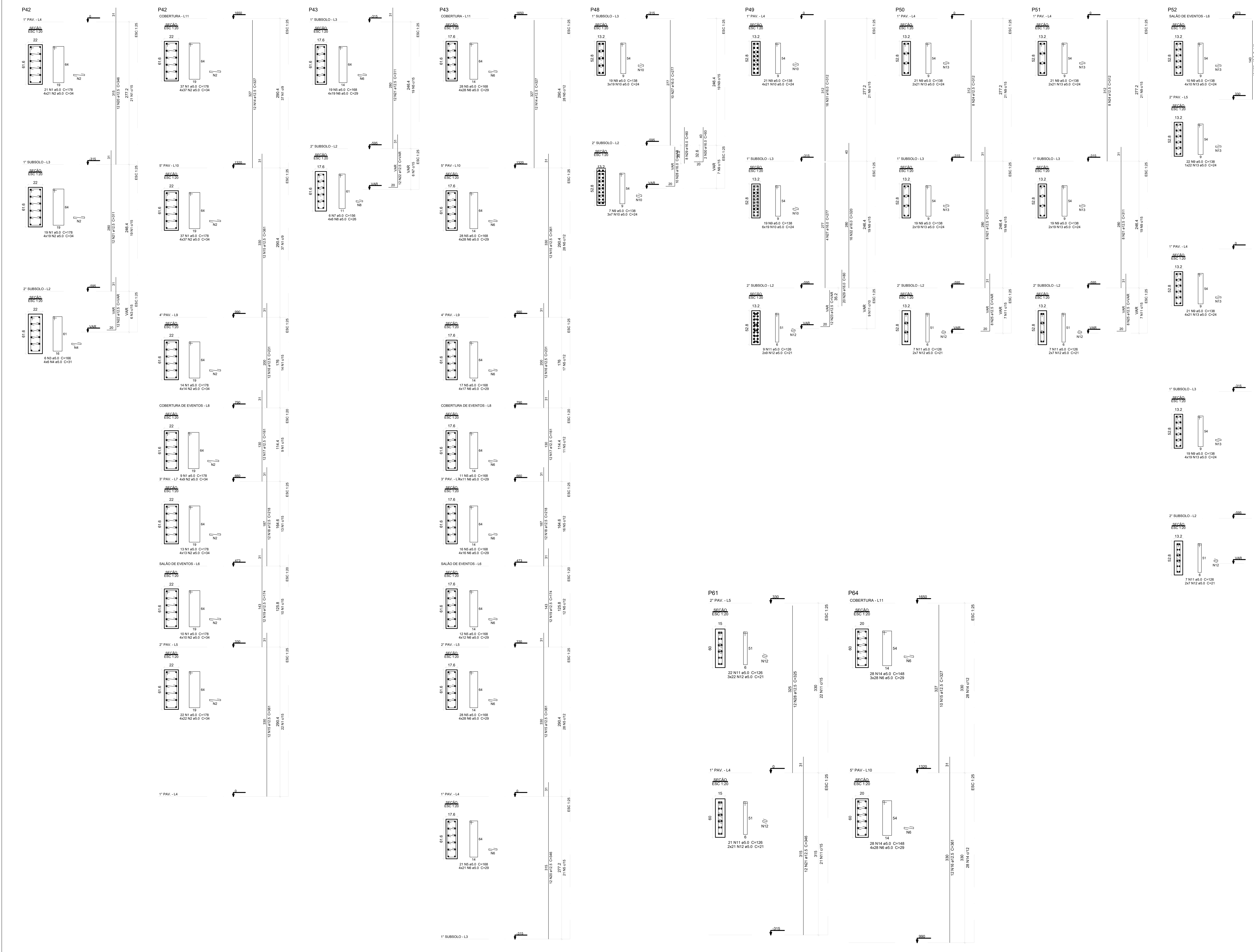
Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
RESP. TÉCNICO \_\_\_\_\_



ACQ	N	DIAM (mm)	QUANT	C.LINET (cm)	C.TOTAL (cm)
CA50	1	5.0	152	178	32398
CA50	2	5.0	725	34	24722
CA50	3	5.0	6	166	996
CA50	4	5.0	24	31	744
CA50	5	5.0	180	168	30240
CA50	6	5.0	916	29	26864
CA50	7	5.0	6	156	896
CA50	8	5.0	24	26	624
CA50	9	5.0	218	138	30084
CA50	10	5.0	276	24	6624
CA50	11	5.0	73	126	9198
CA50	12	5.0	168	21	3528
CA50	13	5.0	480	24	11520
CA50	14	5.0	56	148	8288
CA50	15	12.5	34	327	11118
CA50	16	12.5	72	361	22992
CA50	17	12.5	24	231	5544
CA50	18	12.5	24	161	3864
CA50	19	12.5	24	218	5232
CA50	20	12.5	24	174	4176
CA50	21	12.5	48	348	16608
CA50	22	12.5	52	311	16172
CA50	23	12.5	24	VAR	VAR
CA50	24	12.5	12	VAR	VAR
CA50	25	12.5	16	312	4992
CA50	26	12.5	28	VAR	VAR
CA50	27	12.5	12	140	1680
CA50	28	12.5	12	325	3900
CA50	29	16.0	14	277	3878
CA50	30	16.0	10	VAR	VAR
CA50	31	16.0	28	80	2240
CA50	32	16.0	2	93	186
CA50	33	16.0	16	312	4992
CA50	34	16.0	16	320	5120

**Resumo do aço**

ACQ	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	12.5	10771.1	1441.3
CA50	16.0	174.5	303.9
CA50	5.0	1865	316.2
<b>PESO TOTAL</b>			<b>1861.4</b>
CA50		1444.2	
CA60		316.2	

Volume de concreto (C-40) = 11.72 m³  
Área de forma = 160.9 m²

Revisões da prancha	
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Emissão Inicial	LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
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PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



ACO	N	DIAM (mm)	QUANT	C.LIMIT (cm)	C.TOTAL (cm)
CA60	1	5.0	152	138	29498
CA60	2	5.0	83	30	1512
CA60	3	5.0	513	24	12312
CA60	4	5.0	30	126	3780
CA60	5	5.0	112	21	2352
CA60	6	5.0	407	148	60226
CA60	7	5.0	1221	29	35459
CA60	8	5.0	119	136	16184
CA60	9	4.0	172	26	4602
CA60	10	5.0	56	26	1456
CA60	11	5.0	22	106	2332
CA60	12	5.0	84	30	2514
CA60	13	12.5	10	277	2770
CA60	14	12.5	30	VAR	VAR
CA60	15	12.5	50	312	15600
CA60	16	12.5	90	311	27900
CA60	17	12.5	10	VAR	VAR
CA60	18	12.5	10	VAR	VAR
CA60	19	12.5	20	140	2800
CA60	20	12.5	40	361	14440
CA60	21	12.5	40	346	13840
CA60	22	12.5	20	127	2540
CA60	23	12.5	30	218	6540
CA60	24	12.5	20	174	3480
CA60	25	12.5	22	138	3036
CA60	26	12.5	12	370	4440
CA60	27	12.5	10	125	1250
CA60	28	12.5	12	360	4560
CA60	29	16.0	28	312	8736

**Resumo do aço**

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA60	5.0	1170.4	1240.2
CA60	12.5	87.4	151.7
CA60	5.0	1688.6	286.2
<b>PESO TOTAL</b>			<b>1668.6</b>

CA60 1391.9  
CA60 286.2

Volume de concreto (C-40) = 11.34 m³  
Área de forma = 166.59 m²



Revisões da prancha

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PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



AÇO	N	DIAM (mm)	QUANT	C.LIMIT (cm)	C.TOTAL (cm)	C.TOTAL (kg)
CA60	1	5.0	102	168	17136	28764
	2	5.0	1116	24	2496	4726
	3	5.0	16	156	2496	4726
	4	5.0	224	24	5742	10212
	5	5.0	69	148	10212	19128
	6	5.0	198	6	138	258
	7	5.0	6	138	816	1536
	8	5.0	12	26	312	588
	9	5.0	408	138	56304	105336
	10	5.0	78	126	9828	18456
	11	5.0	62	118	7316	13836
	12	5.0	7	106	742	1396
	13	5.0	504	24	12096	22752
	14	5.0	30	148	4440	8448
	15	12.5	8	312	2496	4726
	16	12.5	88	31	21148	40008
	17	12.5	16	VAR	VAR	VAR
	18	12.5	88	327	28776	54048
	19	12.5	100	346	34600	65040
	20	12.5	4	277	1108	2088
	21	12.5	4	80	348	6504
	22	12.5	8	VAR	VAR	VAR
	23	12.5	40	VAR	VAR	VAR
	24	12.5	6	VAR	VAR	VAR
	25	12.5	12	325	3900	7356

**Resumo do aço**

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	44.4	12
CA60	12.5	1028.6	1089.9
CA60	5.0	1544.9	261.9
<b>PESO TOTAL</b>			<b>1101.9</b>
CA50			1101.9
CA60			261.9

Volume de concreto (C-50) = 9.94 m³  
Área de forma = 106.9 m²

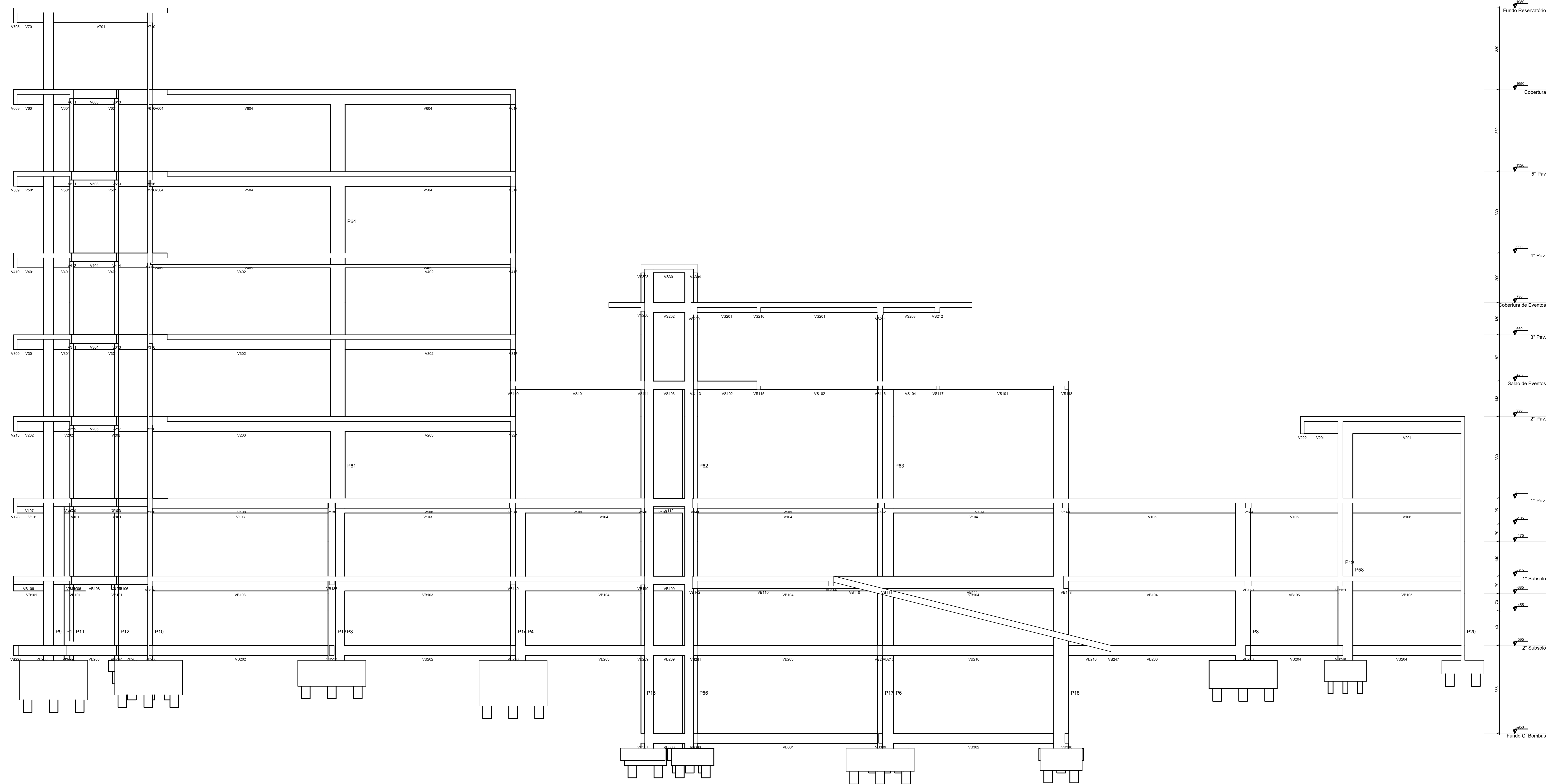
Revisões da prancha

Nº	Descrição	Data

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RESP. TÉCNICO:

PROPRIETÁRIO  
AUTOR DO PROJETO CREA: 21.401/D-DF  
RESP. TÉCNICO



Corte A-A  
escala 1/50

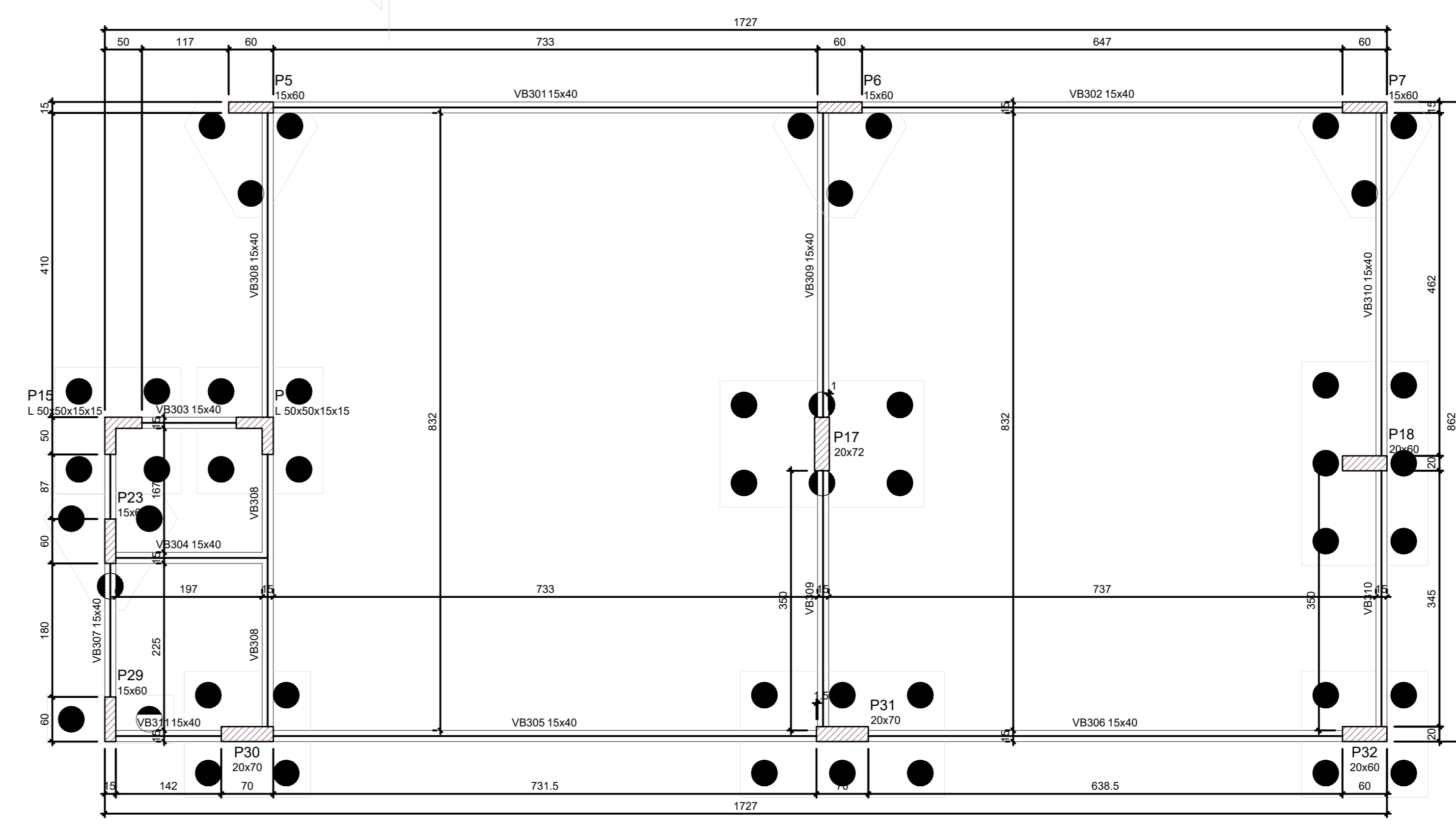
Revisões da prancha			
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 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO





Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB301	15x40	0	-950
VB302	15x40	0	-950
VB303	15x40	0	-950
VB304	15x40	0	-950
VB305	15x40	0	-950
VB306	15x40	0	-950
VB307	15x40	0	-950
VB308	15x40	0	-950
VB309	15x40	0	-950
VB310	15x40	0	-950
VB311	15x40	0	-950

Características dos materiais		
Elemento	fck (MPa)	Ecs (MPa)
Vigas	400	3187,58
Placas	400	3187,58
Pilares	300	2963,84

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P5	15x60	0	-950
P6	15x60	0	-950
P7	15x60	0	-950
P15	L 30x40x15x15	0	-950
P16	L 50x40x15x15	0	-950
P17	20x72	0	-950
P18	20x60	0	-950
P23	15x60	0	-950
P29	15x60	0	-950
P30	20x70	0	-950
P31	20x70	0	-950
P32	20x60	0	-950

Legenda dos pilares	
	Pilar que passa

Legenda das vigas e paredes	
	Viga

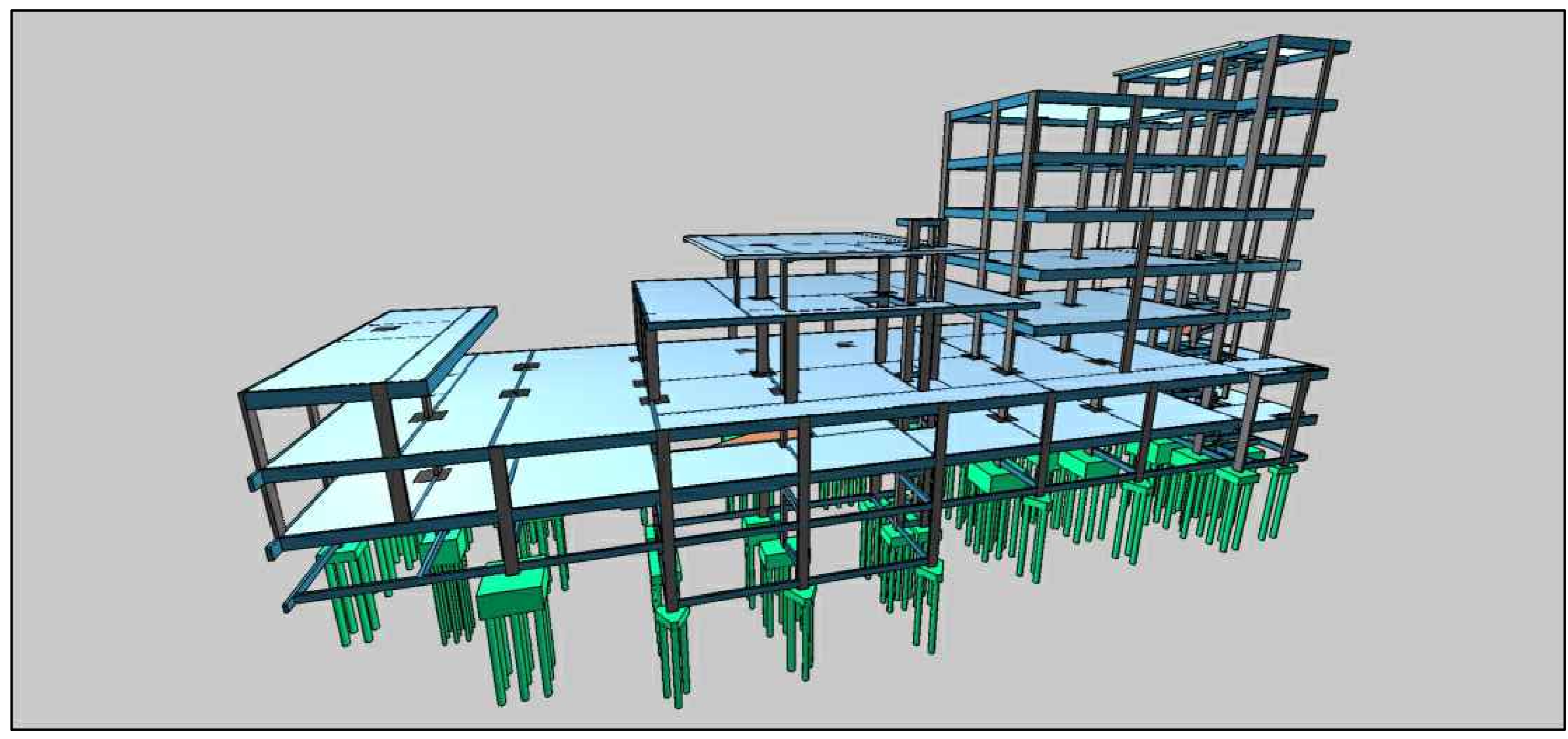
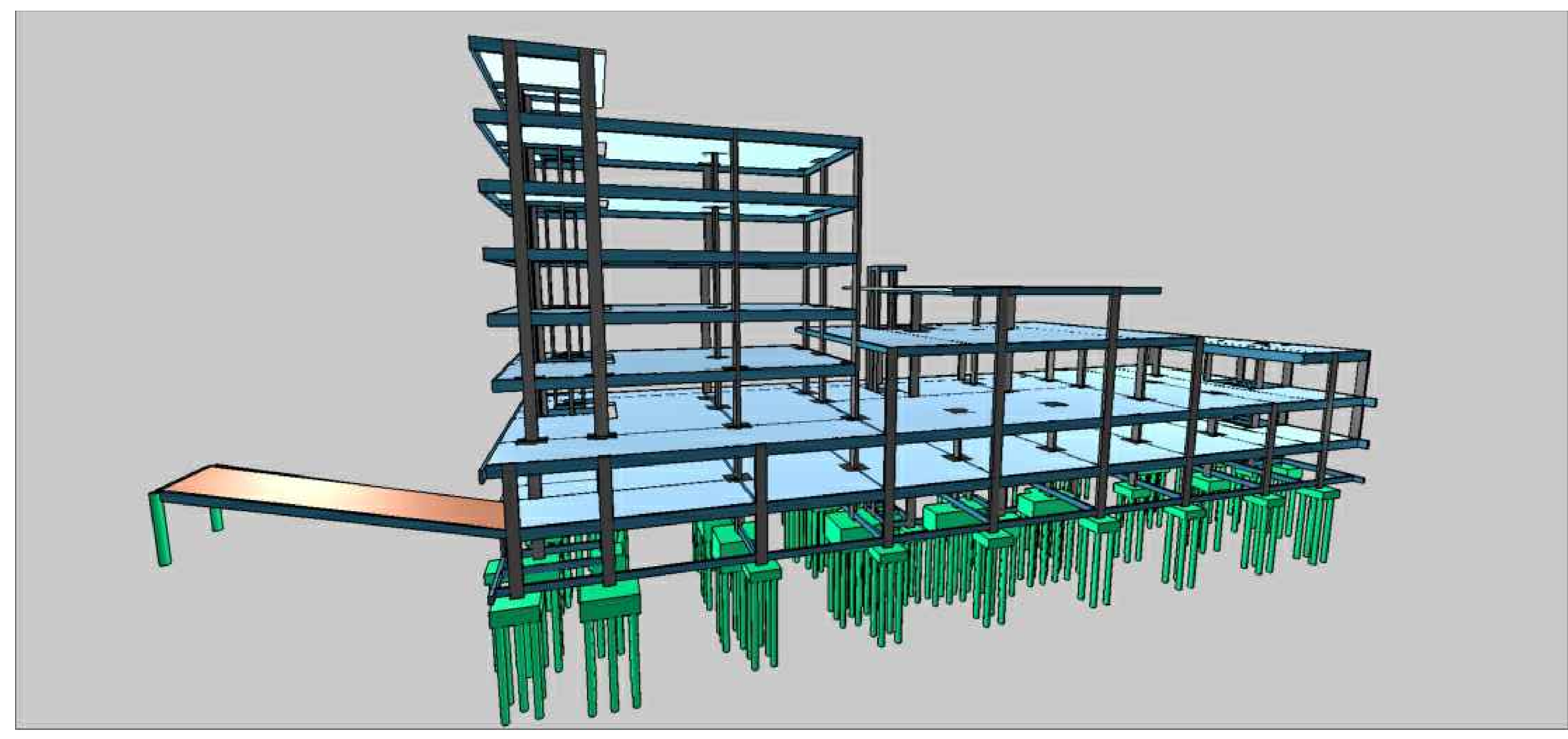
Forma do Pavimento Fundo C. Bombas (Nível -950) escala 1:50

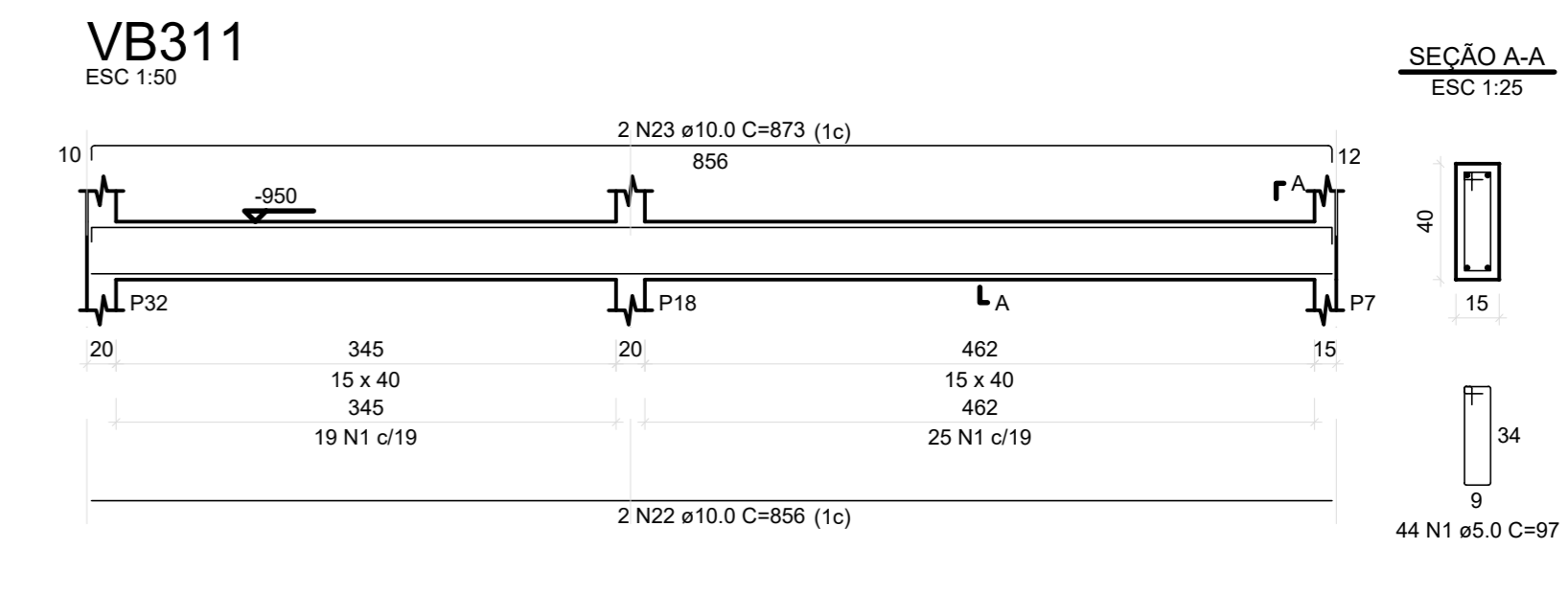
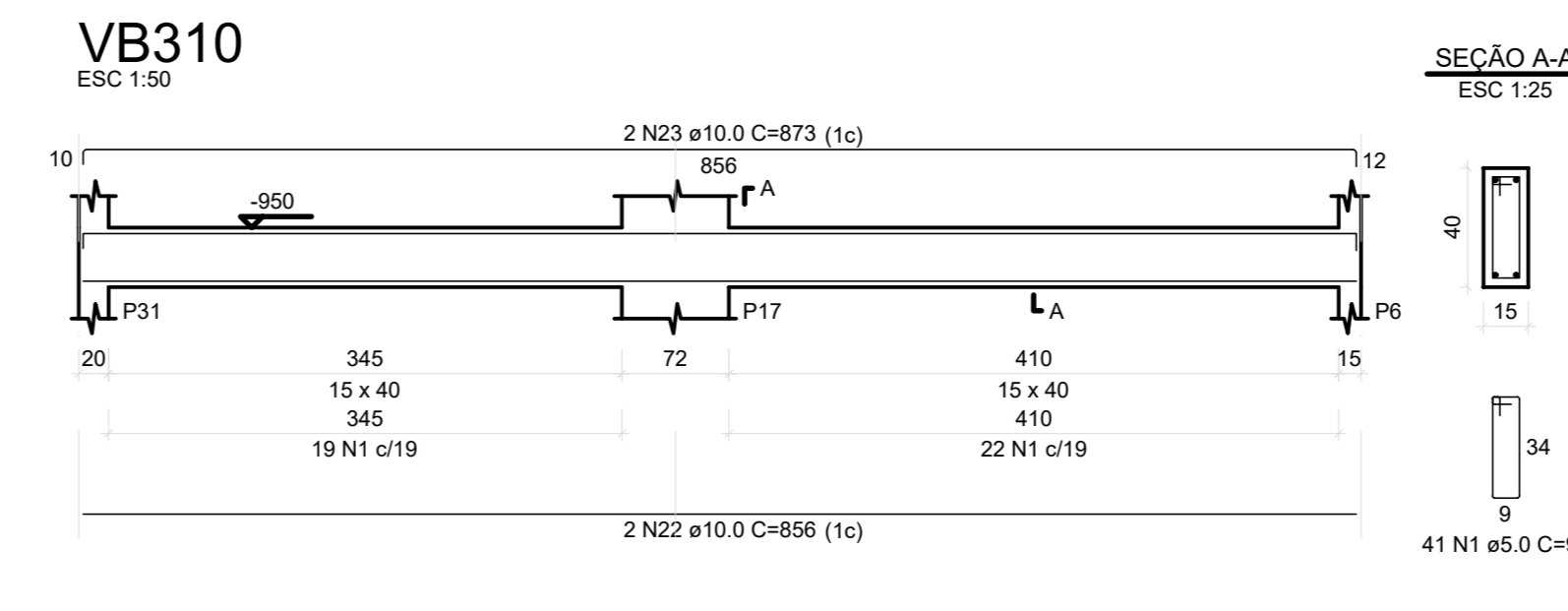
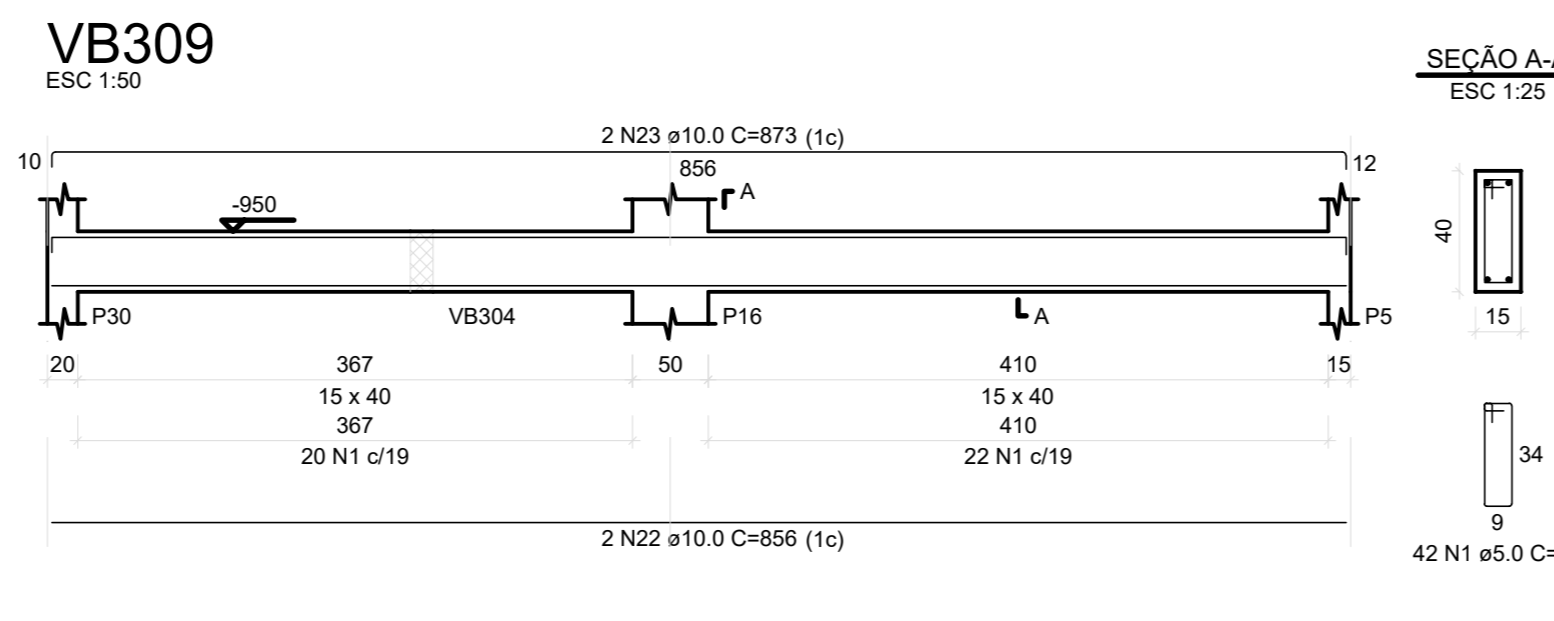
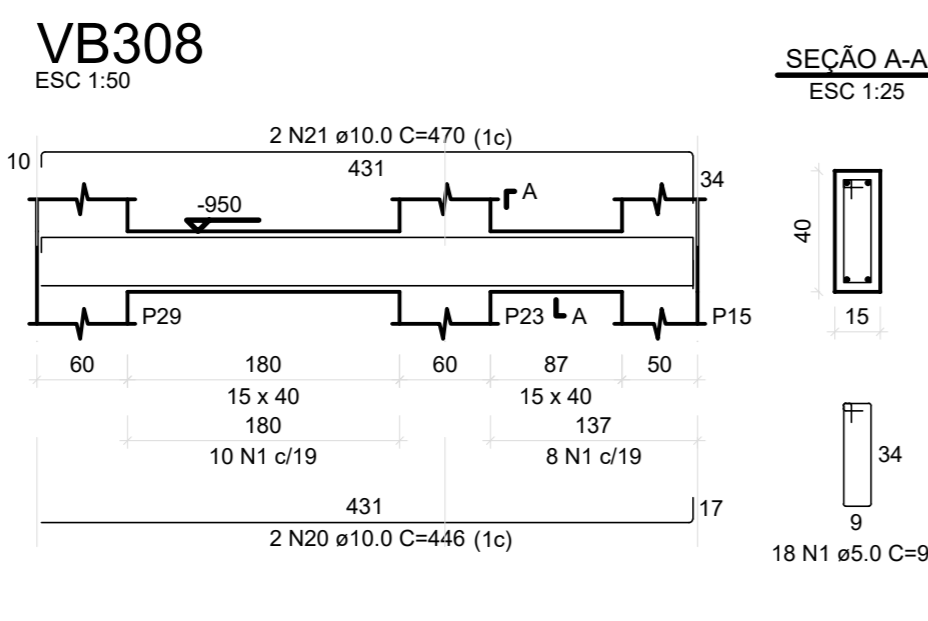
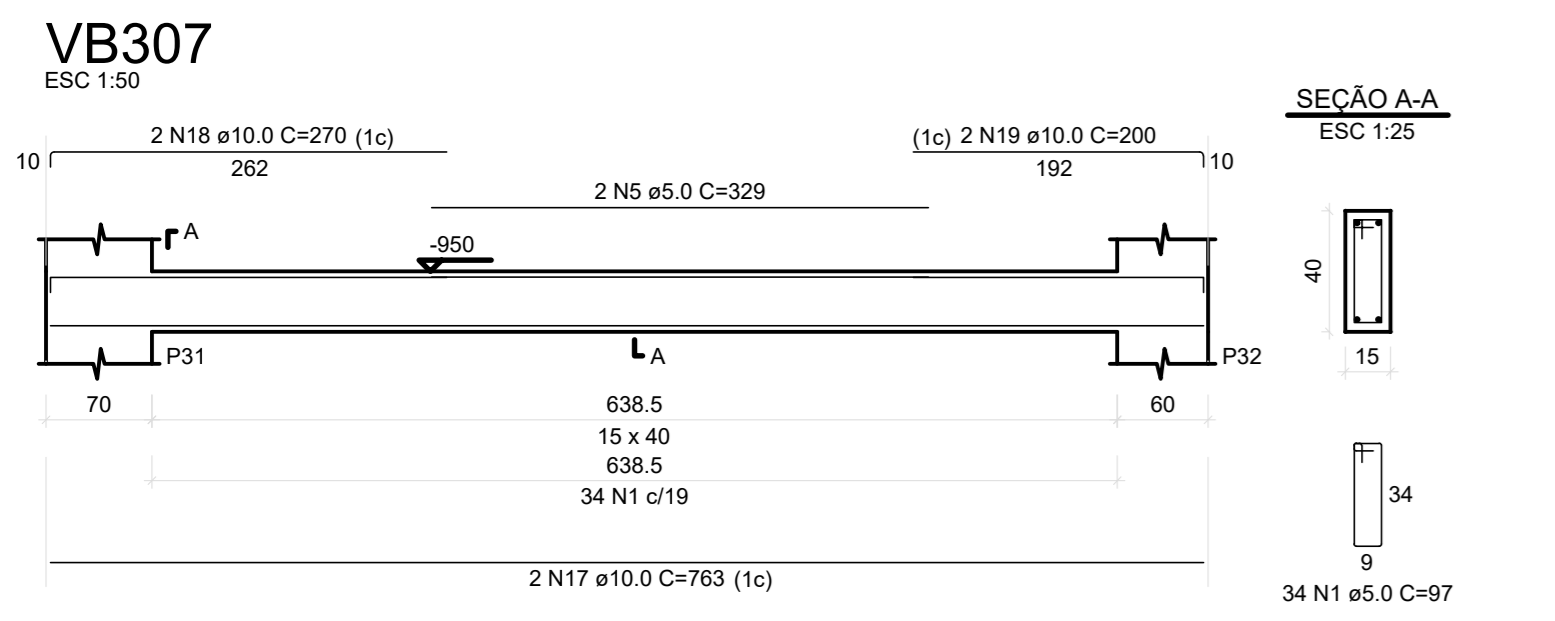
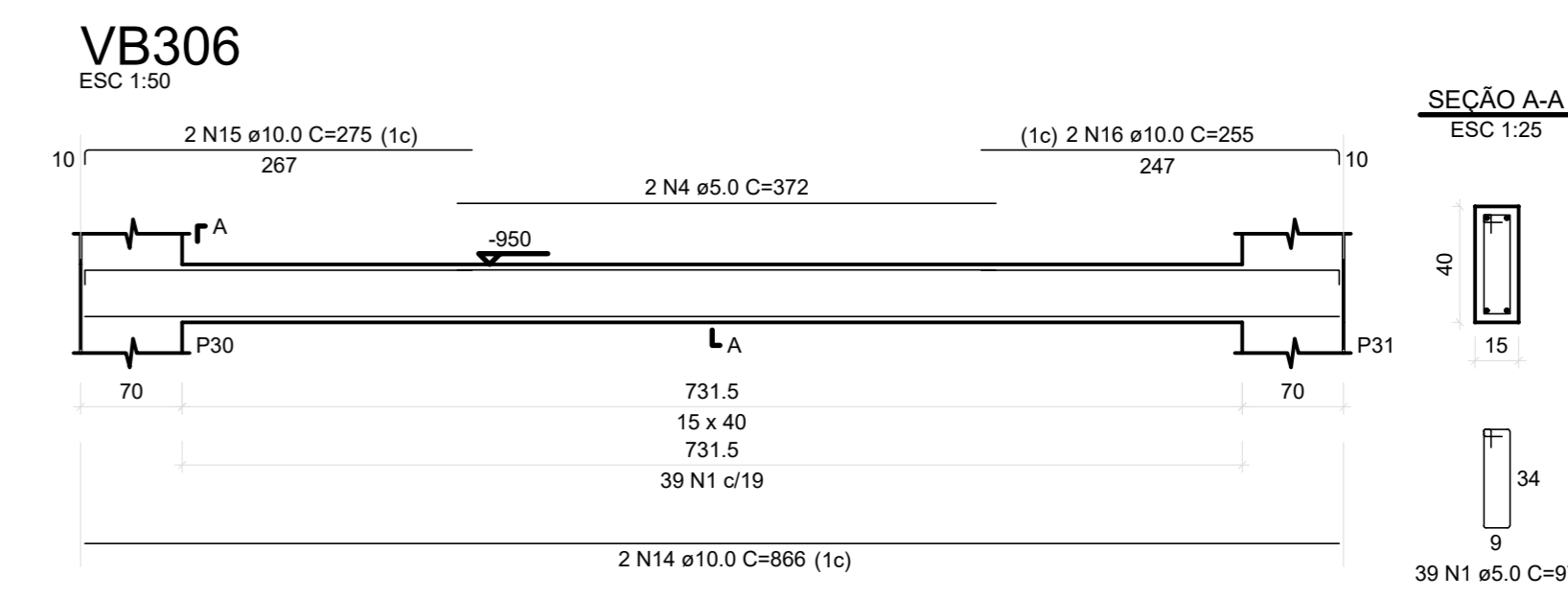
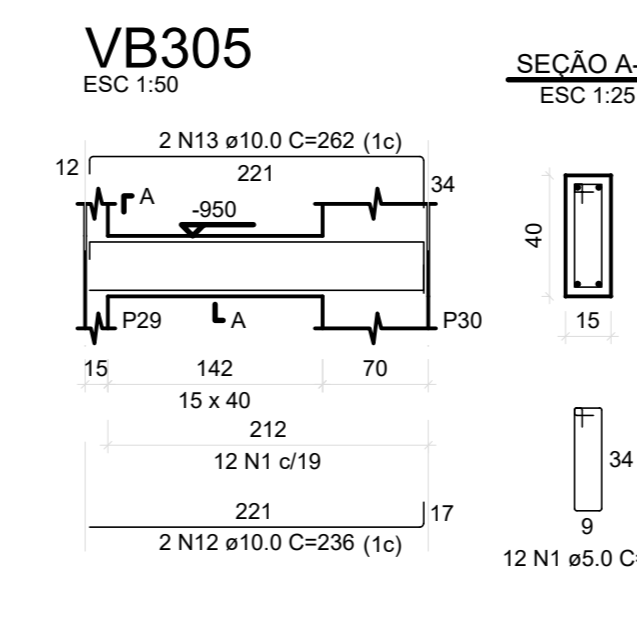
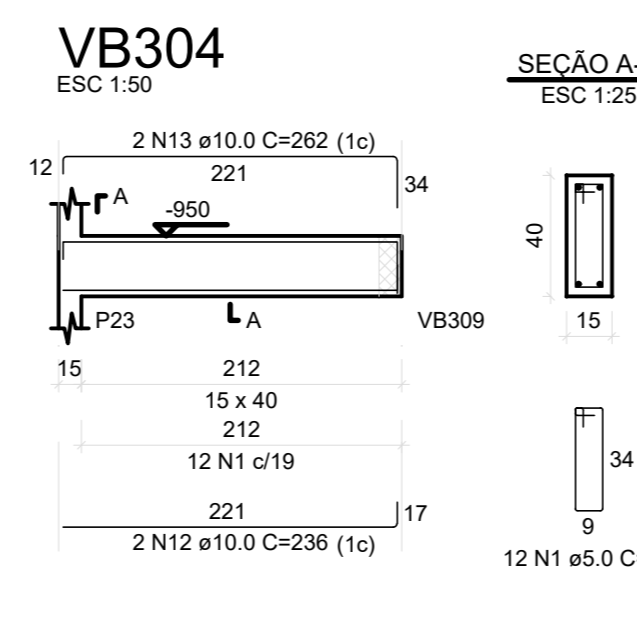
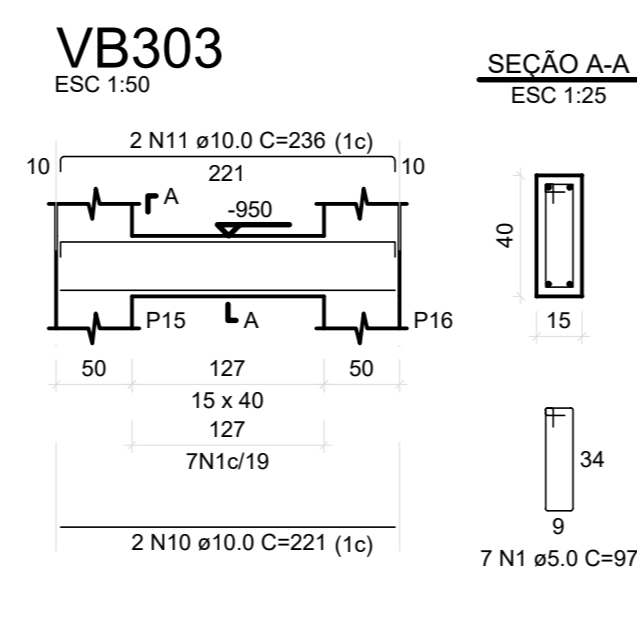
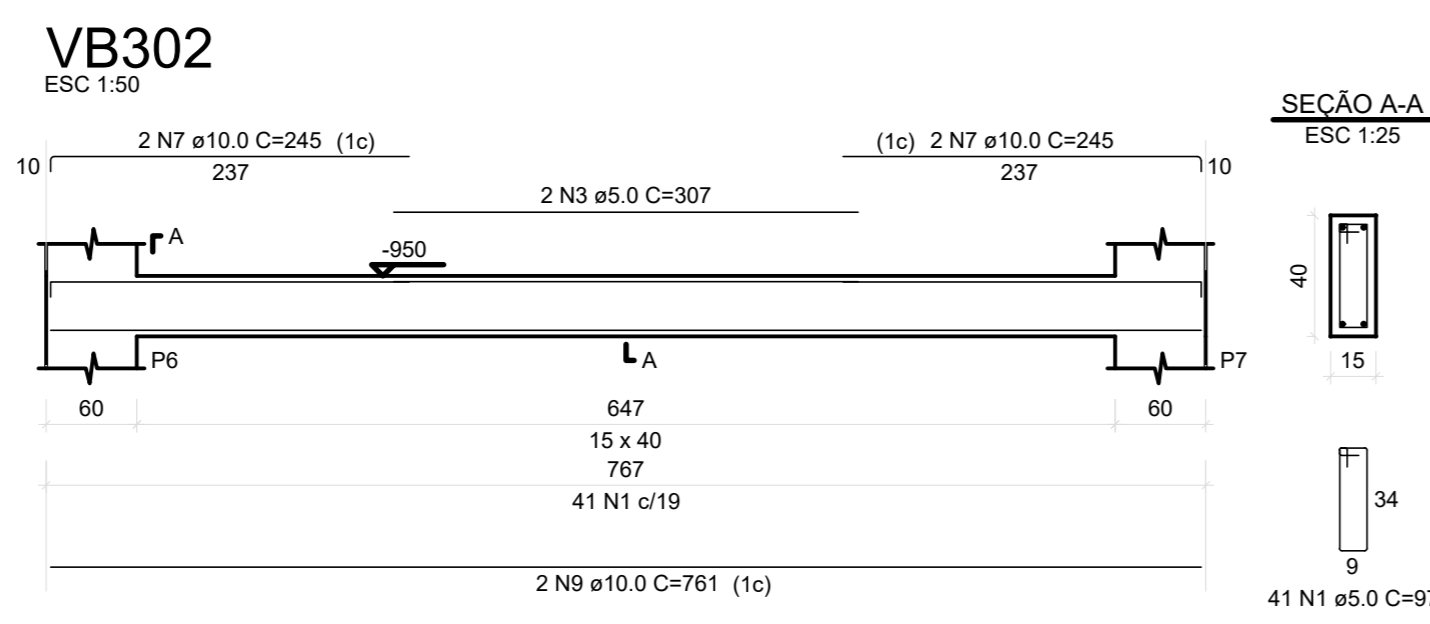
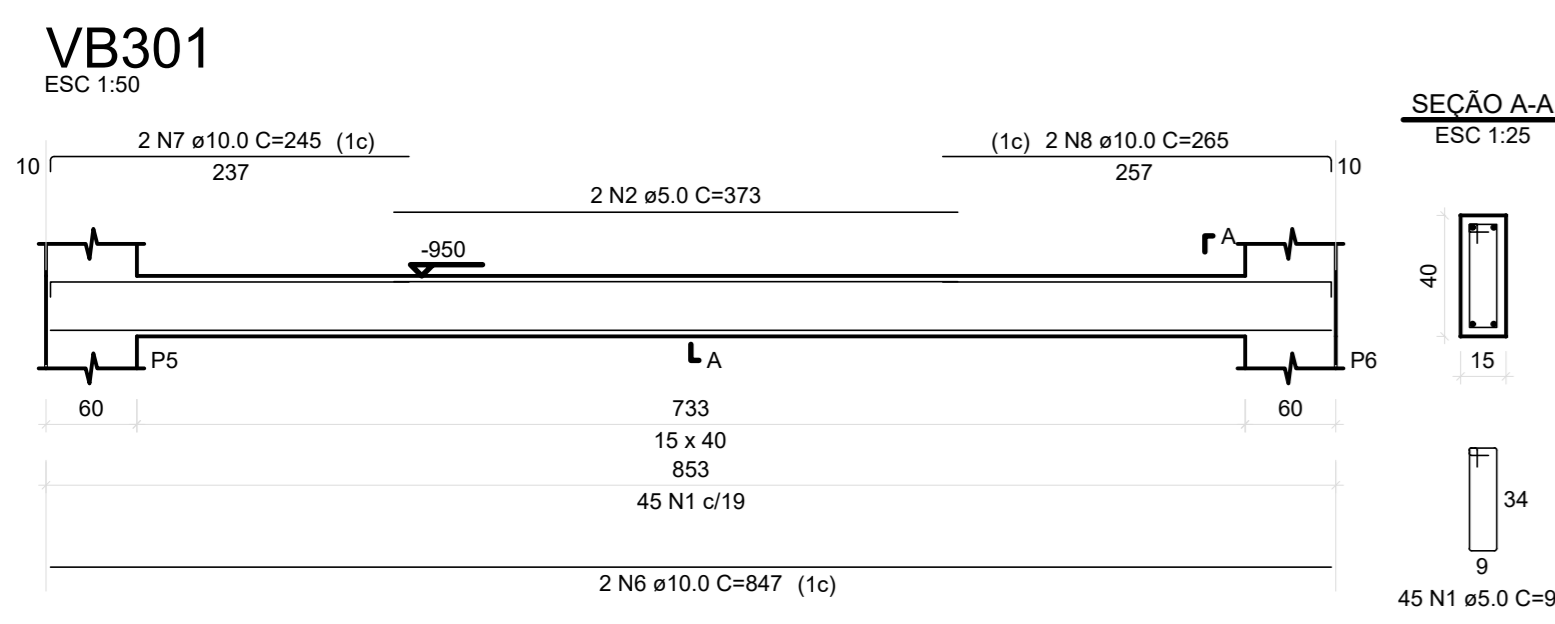
Revisões da prancha		
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 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_





RELAÇÃO DO AÇO - Fundo da Casa de Bombas

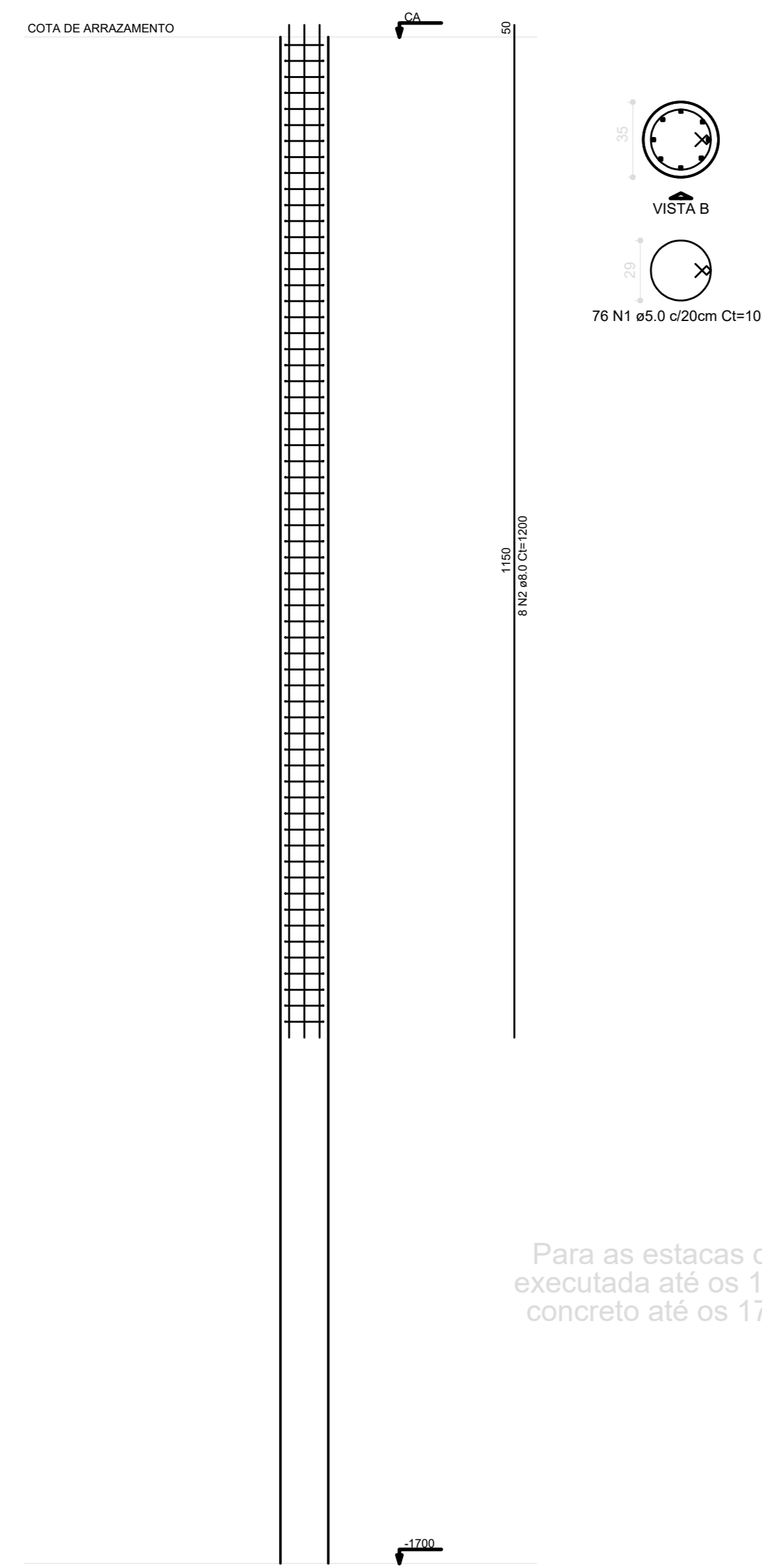
ACAO	N	DIAM (mm)	QUANT	C. UNIF (cm)	C. TOTAL (cm)	P. TOTAL (kg)
CA00	1	5,0	335	37	2435	2085
CA00	2	5,0	2	37	74	614
CA00	3	5,0	2	37	74	614
CA00	4	5,0	2	37	74	614
CA00	5	10,0	2	367	734	1468
CA00	6	10,0	2	367	734	1468
CA00	7	10,0	2	367	734	1468
CA00	8	10,0	2	367	734	1468
CA00	9	10,0	2	367	734	1468
CA00	10	10,0	2	367	734	1468
CA00	11	10,0	2	367	734	1468
CA00	12	10,0	2	367	734	1468
CA00	13	10,0	2	367	734	1468
CA00	14	10,0	2	367	734	1468
CA00	15	10,0	2	367	734	1468
CA00	16	10,0	2	367	734	1468
CA00	17	10,0	2	367	734	1468
CA00	18	10,0	2	367	734	1468
CA00	19	10,0	2	367	734	1468
CA00	20	10,0	2	367	734	1468
CA00	21	10,0	2	367	734	1468
CA00	22	10,0	2	367	734	1468
CA00	23	10,0	2	367	734	1468
CA00	24	10,0	2	367	734	1468
CA00	25	10,0	2	367	734	1468
CA00	26	10,0	2	367	734	1468
CA00	27	10,0	2	367	734	1468
CA00	28	10,0	2	367	734	1468
CA00	29	10,0	2	367	734	1468
CA00	30	10,0	2	367	734	1468
CA00	31	10,0	2	367	734	1468
CA00	32	10,0	2	367	734	1468
CA00	33	10,0	2	367	734	1468
CA00	34	10,0	2	367	734	1468
CA00	35	10,0	2	367	734	1468
CA00	36	10,0	2	367	734	1468
CA00	37	10,0	2	367	734	1468
CA00	38	10,0	2	367	734	1468
CA00	39	10,0	2	367	734	1468
CA00	40	10,0	2	367	734	1468
CA00	41	10,0	2	367	734	1468
CA00	42	10,0	2	367	734	1468
CA00	43	10,0	2	367	734	1468
CA00	44	10,0	2	367	734	1468
CA00	45	10,0	2	367	734	1468
CA00	46	10,0	2	367	734	1468
CA00	47	10,0	2	367	734	1468
CA00	48	10,0	2	367	734	1468

RESUMO DO AÇO

ACAO	DIAM (mm)	C. TOTAL (cm)	PESO + 10% (kg)
CA00	5,0	2143,2	180
CA00	5,0	392,8	32
CA00	10,0	2707,2	539,5
<b>PESO TOTAL (kg)</b>			<b>741,7</b>
CA00			3743,3
CA00			11730,3

Volume de concreto (C-25) = 520,80 m³  
Área de forma = 102,16 m²

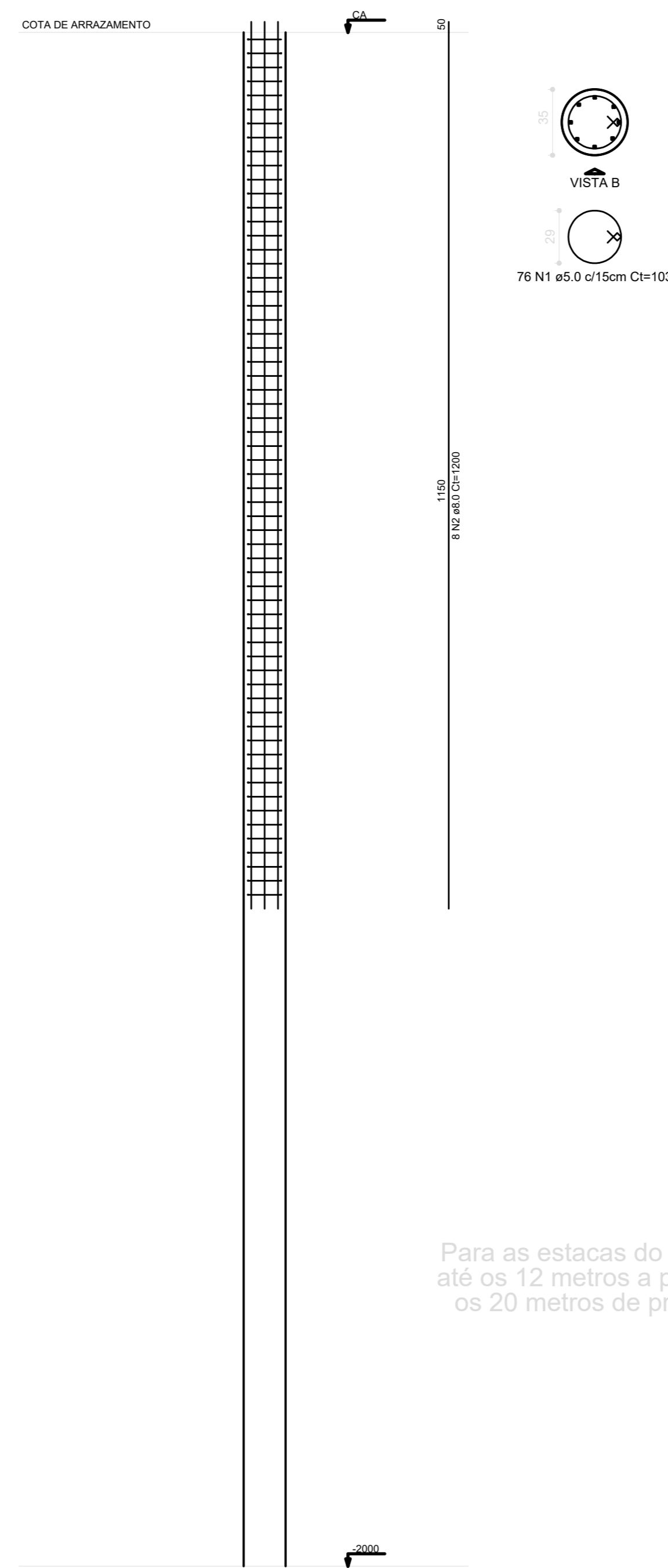
P5, P6, P7, P15, P16, P17, P18, P23, P29, P30, P31, P32 (48 UNIDADES)



**OBSERVAÇÃO:**

Para as estacas da Casa de Bombas, a ferragem deverá ser executada até os 12 metros a partir da cota de arrastamento e o concreto até os 17 metros de profundidade a partir da cota de arrastamento.

P1, P2, P3, P4, P8, P9, P10, P11, P12, P13, P14, P19, P20, P21, P22  
P24, P25, P26, P28, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42  
P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57 (234 UNIDADES)



**OBSERVAÇÃO:**

Para as estacas do 2º subsolo, a ferragem deverá ser executada até os 12 metros a partir da cota de arrastamento e o concreto até os 20 metros de profundidade a partir da cota de arrastamento.

RELAÇÃO DO AÇO - Estaca

ACAO	N	DIAM (mm)	QUANT	C. UNIF (cm)	C. TOTAL (cm)	P. TOTAL (kg)
CA00	1	5,0	2143,2	100	2207,496	180
CA00	2	5,0	392,8	1000	3707,200	32

RESUMO DO AÇO

ACAO	DIAM (mm)	C. TOTAL (cm)	PESO + 10% (kg)
CA00	5,0	2207,5	180
CA00	5,0	3707,2	32
<b>PESO TOTAL (kg)</b>			<b>211,7</b>
CA00			3743,3
CA00			11730,3

Volume de concreto (C-25) = 520,80 m³

Revisões da prancha

Nº	Descrição	Data
-	-	-
-	-	-
-	-	-
-	-	-

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO CREA: 21.401/D-DF

RESP. TÉCNICO





RELACIONAMENTO DO AÇO - Vigas de 2ª Subsole

ACD	N	DIA	COMPR	C. TOTAL	PESO
CABO	1	10	360	360	91.600
2	10	360	360	360	91.600
3	10	360	360	360	91.600
4	10	360	360	360	91.600
5	10	360	360	360	91.600
6	10	360	360	360	91.600
7	10	360	360	360	91.600
8	10	360	360	360	91.600
9	10	360	360	360	91.600
10	10	360	360	360	91.600
11	10	360	360	360	91.600
12	10	360	360	360	91.600
13	10	360	360	360	91.600
14	10	360	360	360	91.600
15	10	360	360	360	91.600
16	10	360	360	360	91.600
17	10	360	360	360	91.600
18	10	360	360	360	91.600
19	10	360	360	360	91.600
20	10	360	360	360	91.600
21	10	360	360	360	91.600
22	10	360	360	360	91.600
23	10	360	360	360	91.600
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41	10	360	360	360	91.600
42	10	360	360	360	91.600
43	10	360	360	360	91.600
44	10	360	360	360	91.600
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98	10	360	360	360	91.600
99	10	360	360	360	91.600
100	10	360	360	360	91.600

RESUMO DO AÇO

ACD	DIA	C. TOTAL	PESO * 10%
CABO	10	360	91.600
2	10	360	91.600
3	10	360	91.600
4	10	360	91.600
5	10	360	91.600
6	10	360	91.600
7	10	360	91.600
8	10	360	91.600
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Revisões da prancha

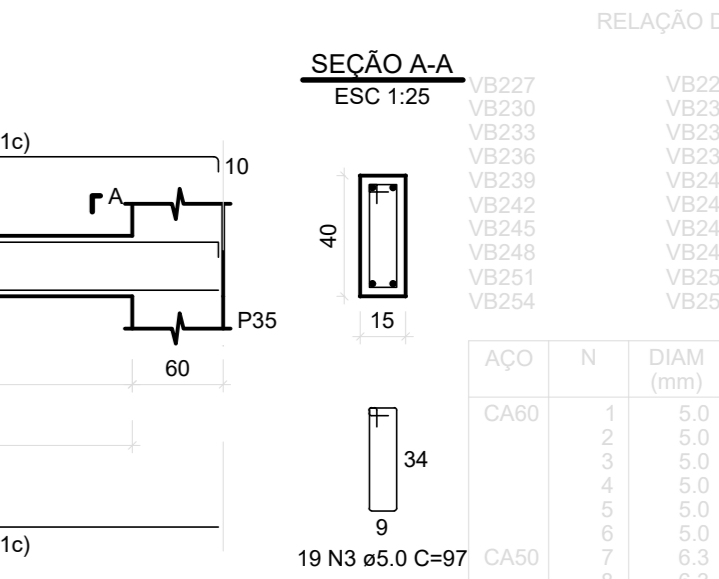
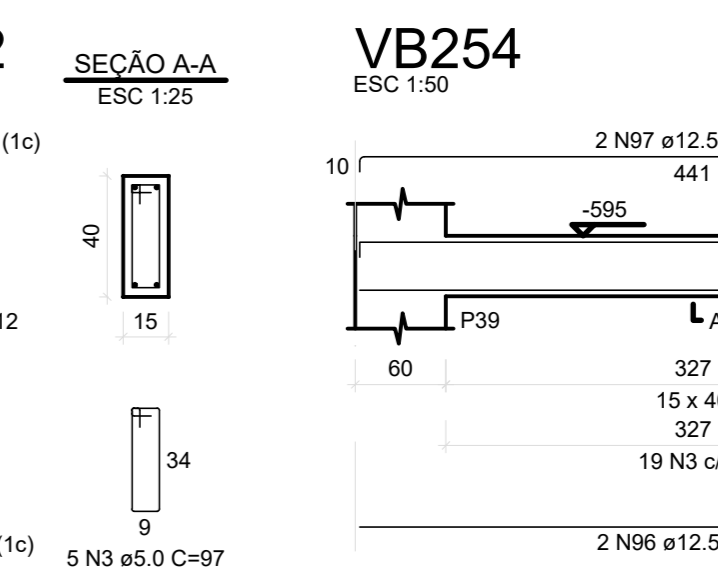
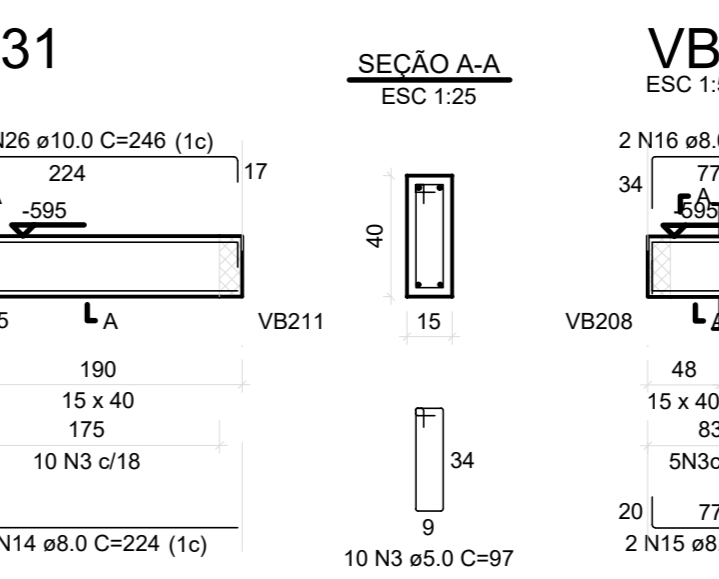
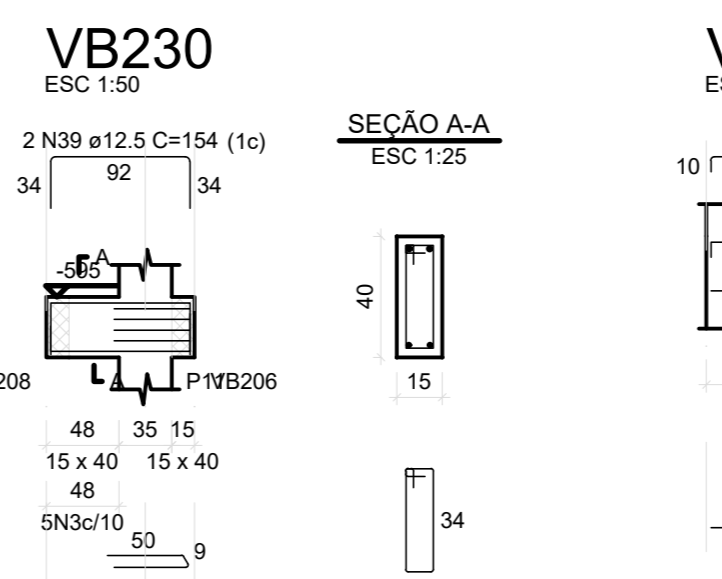
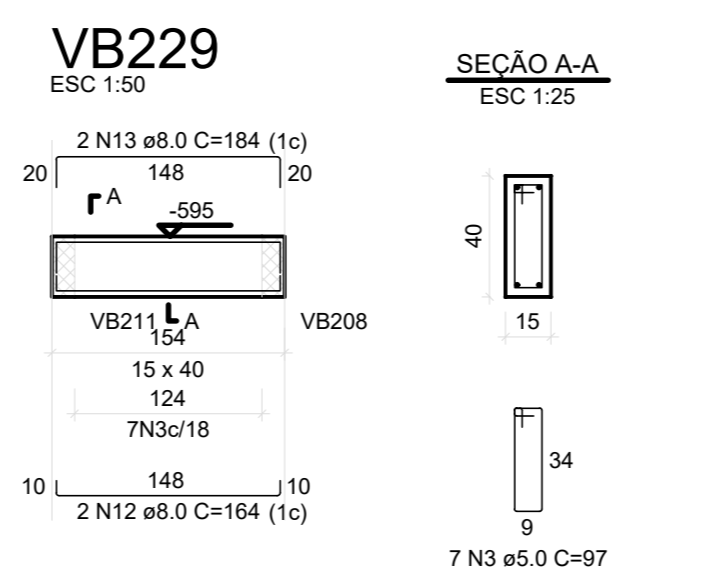
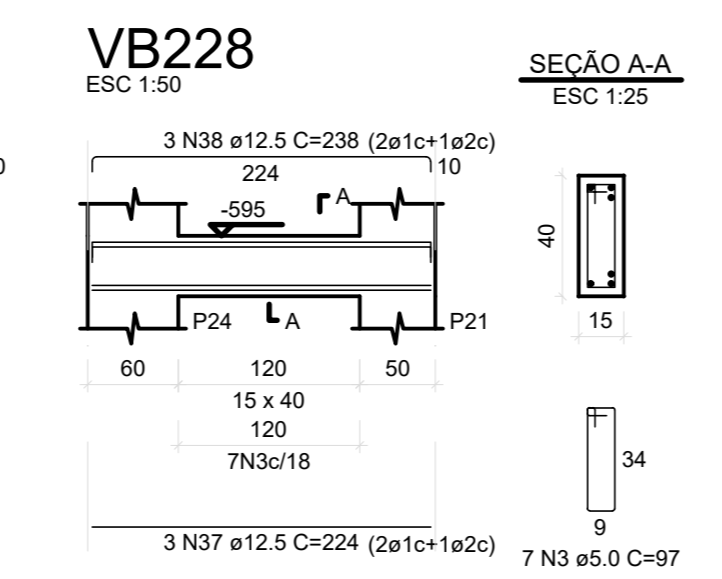
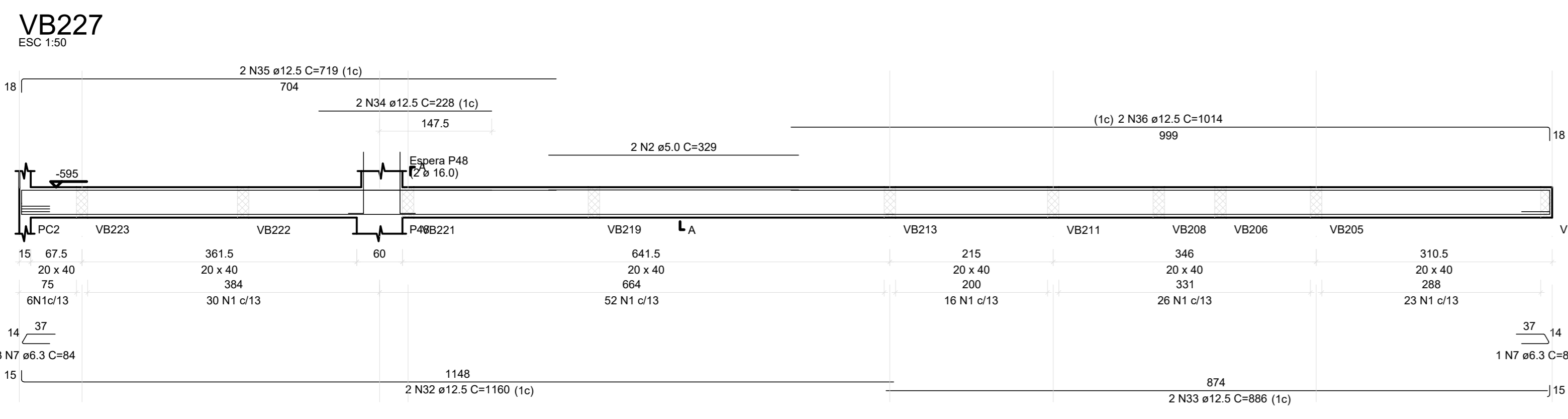
Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

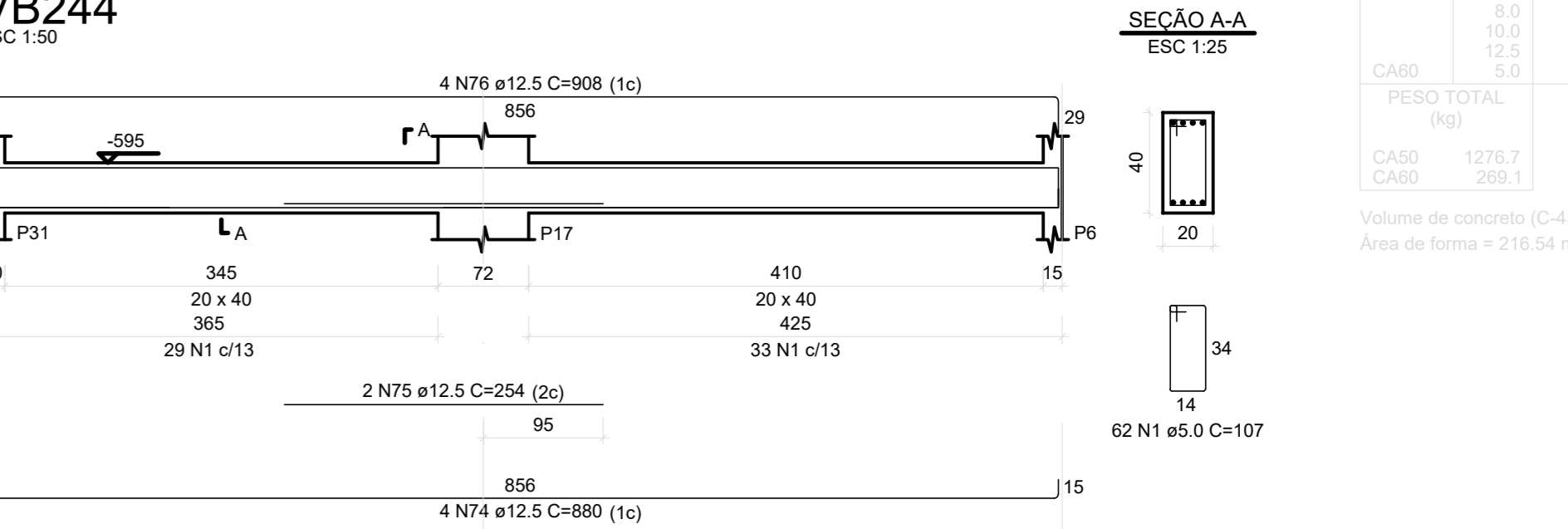
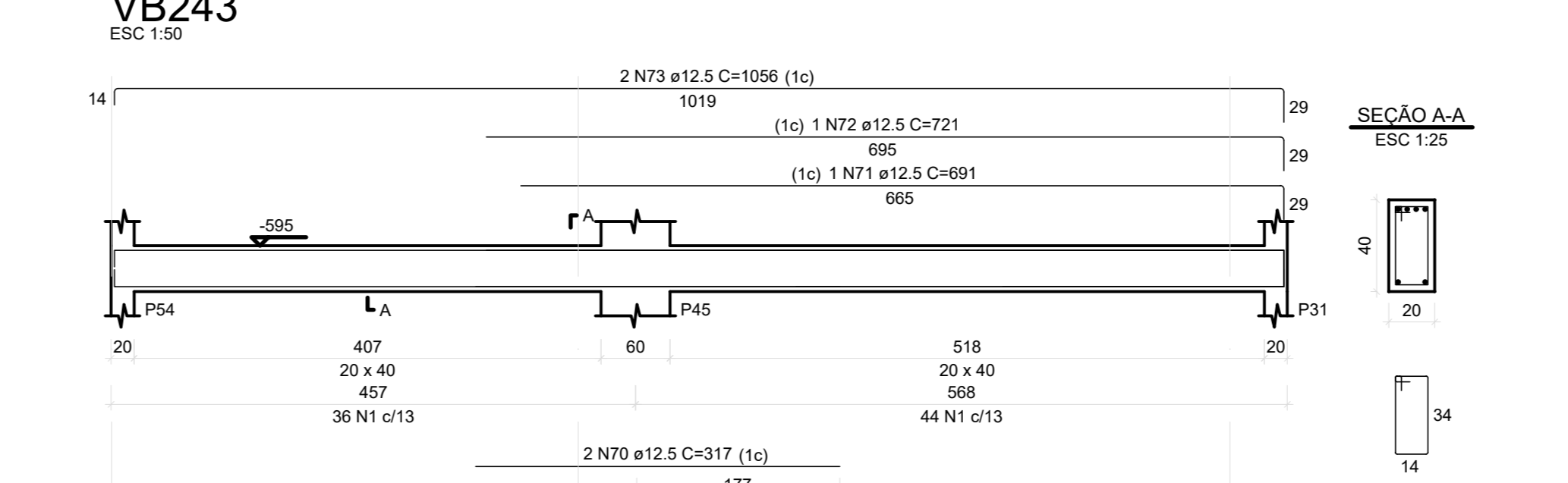
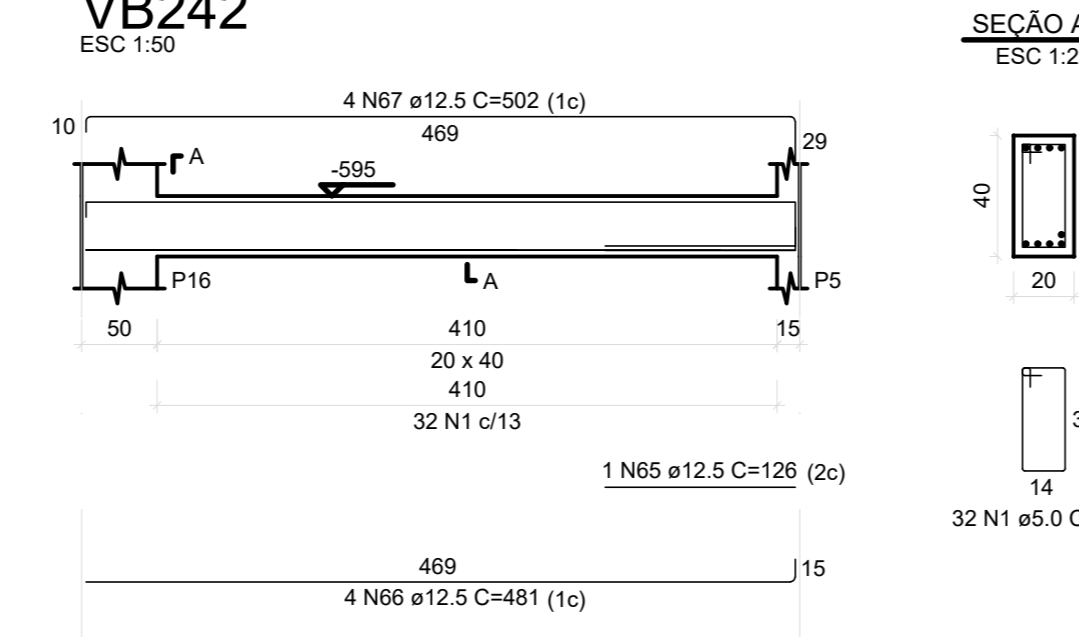
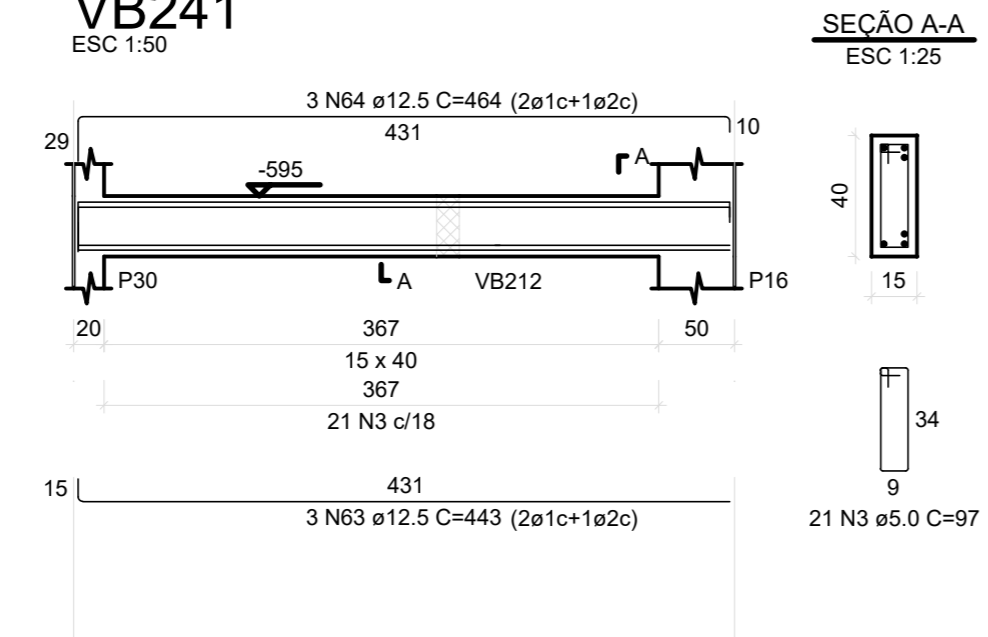
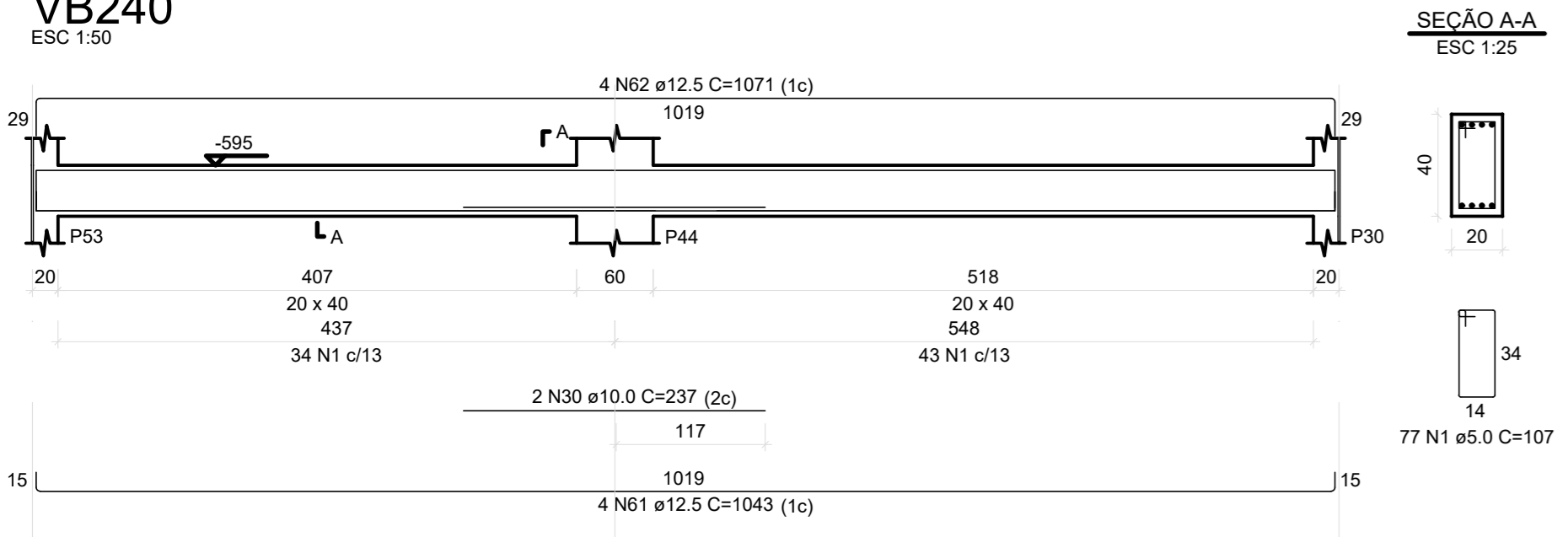
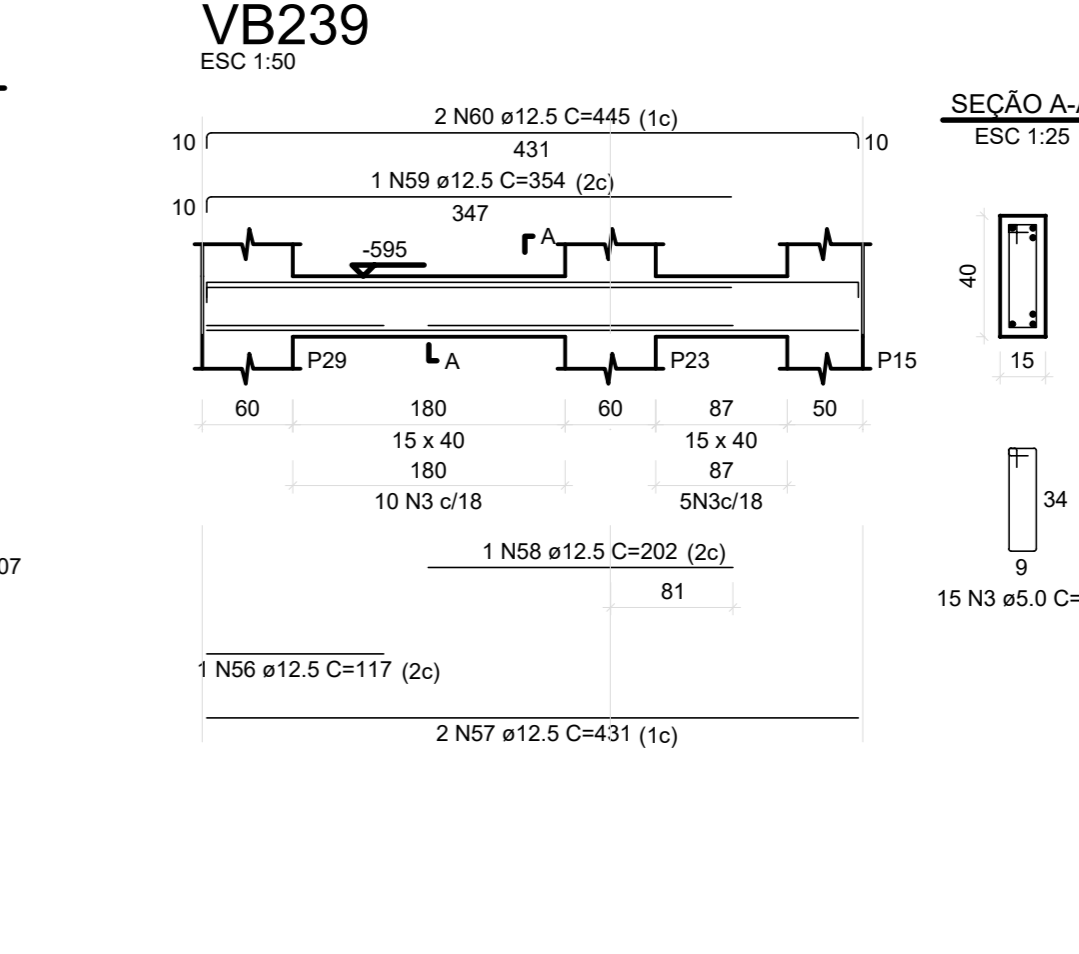
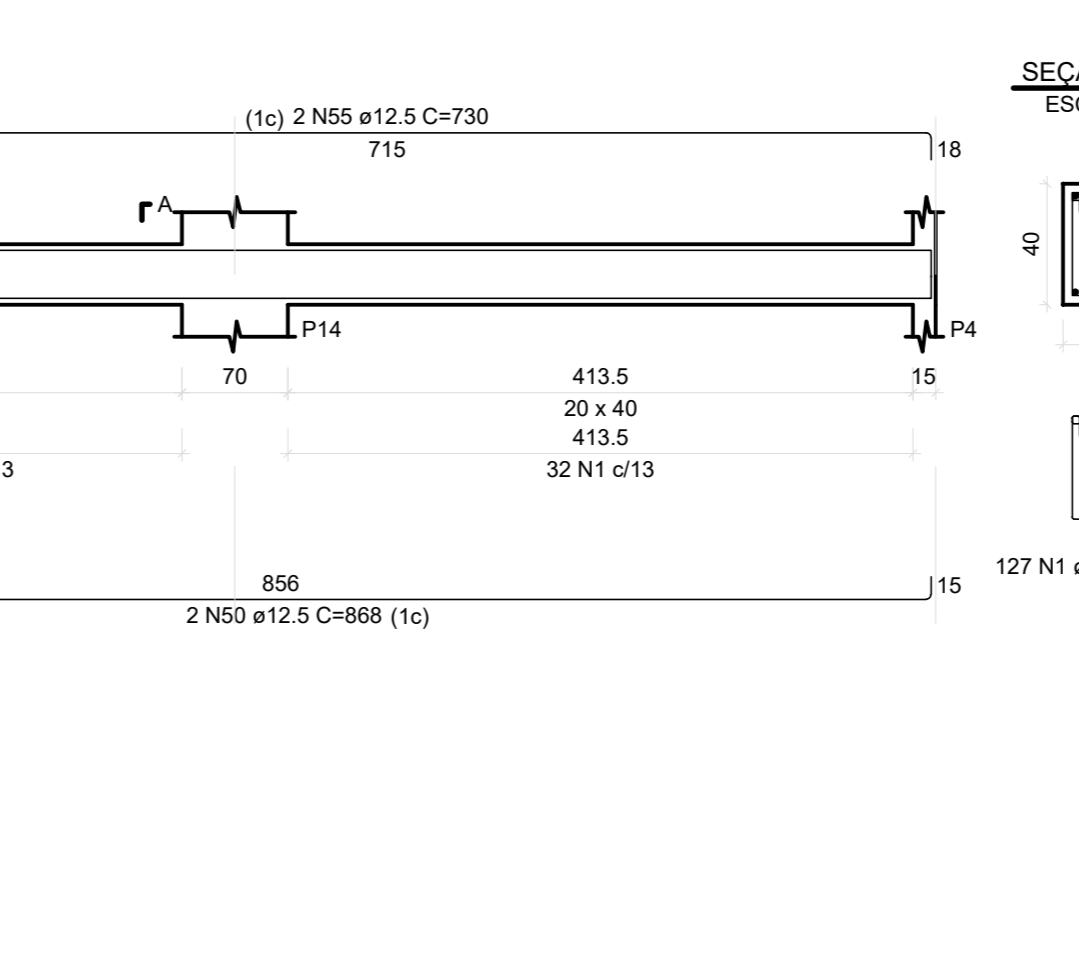
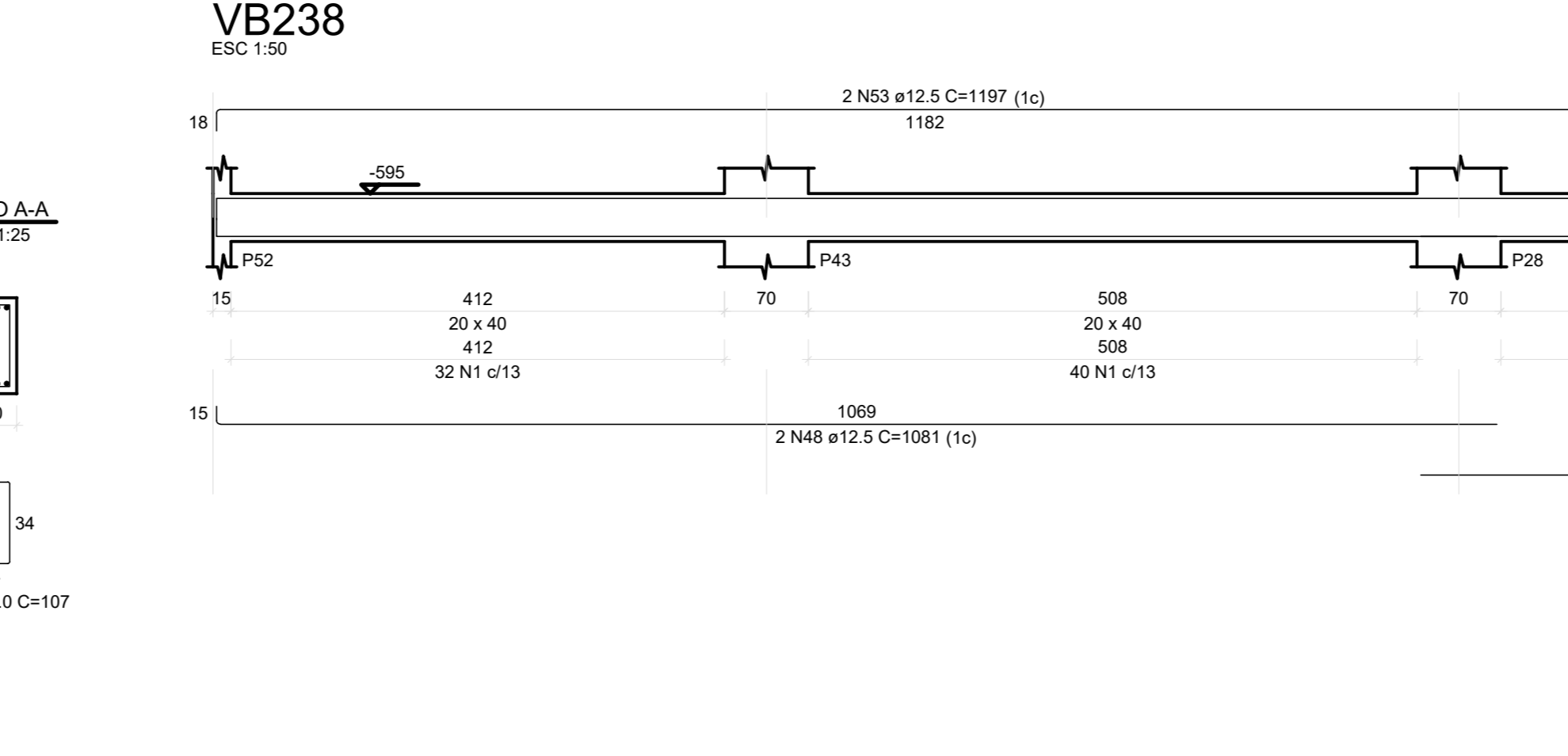
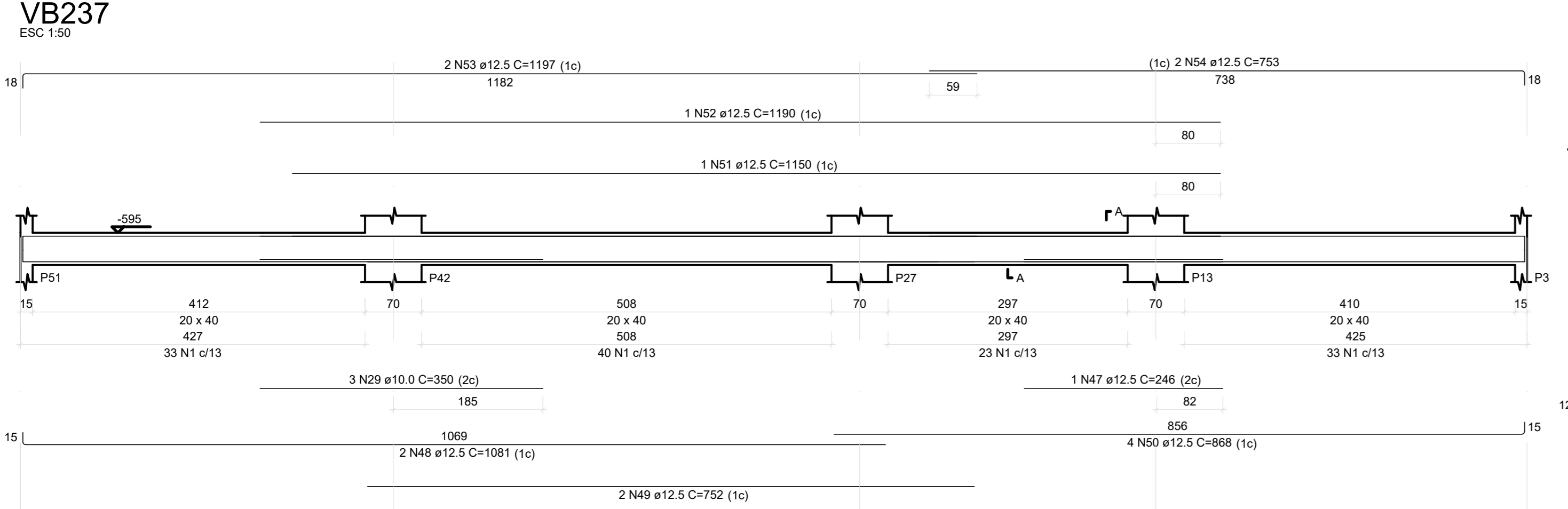
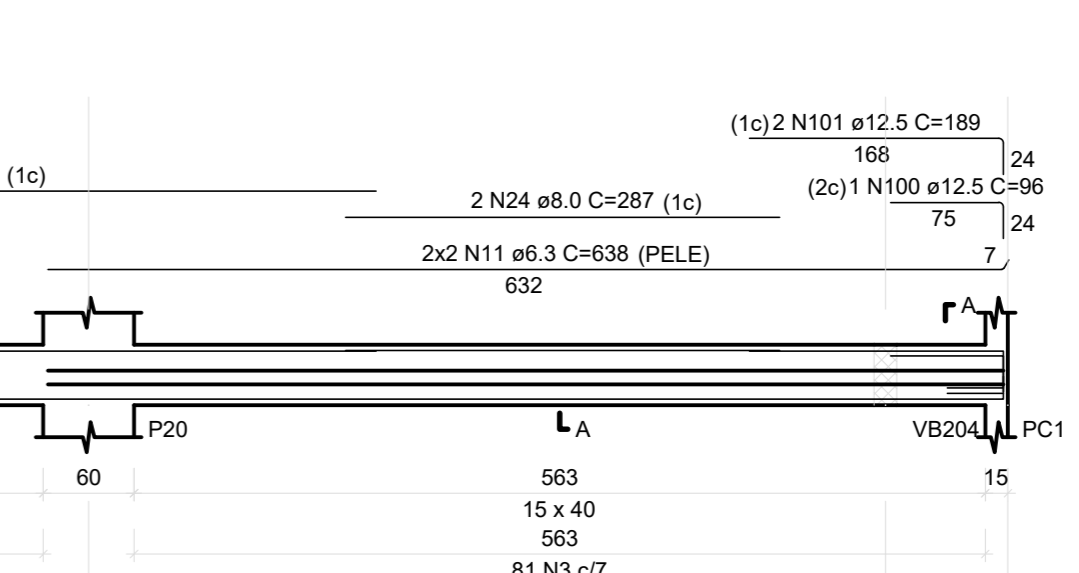
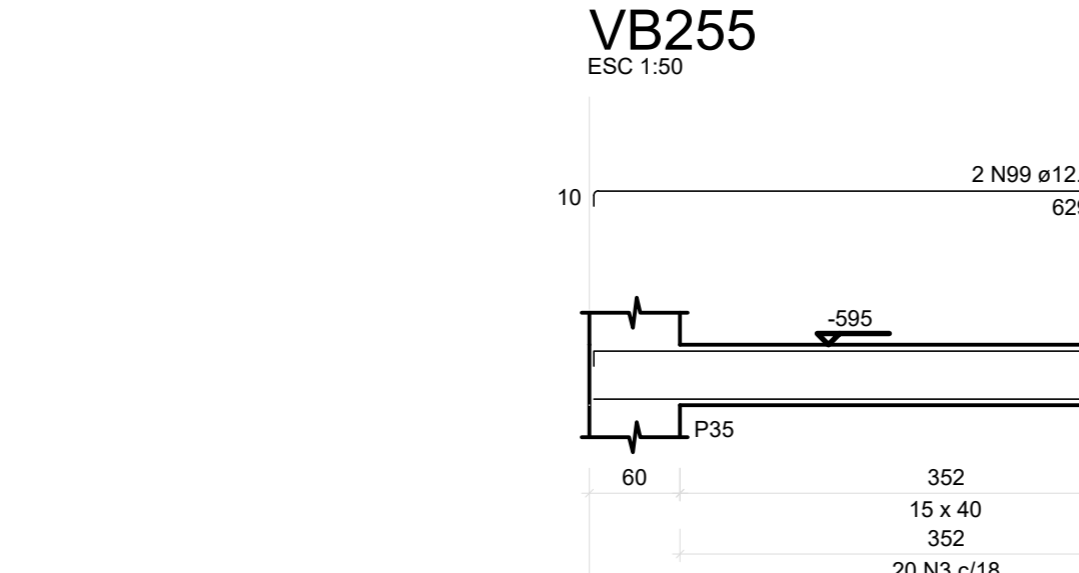
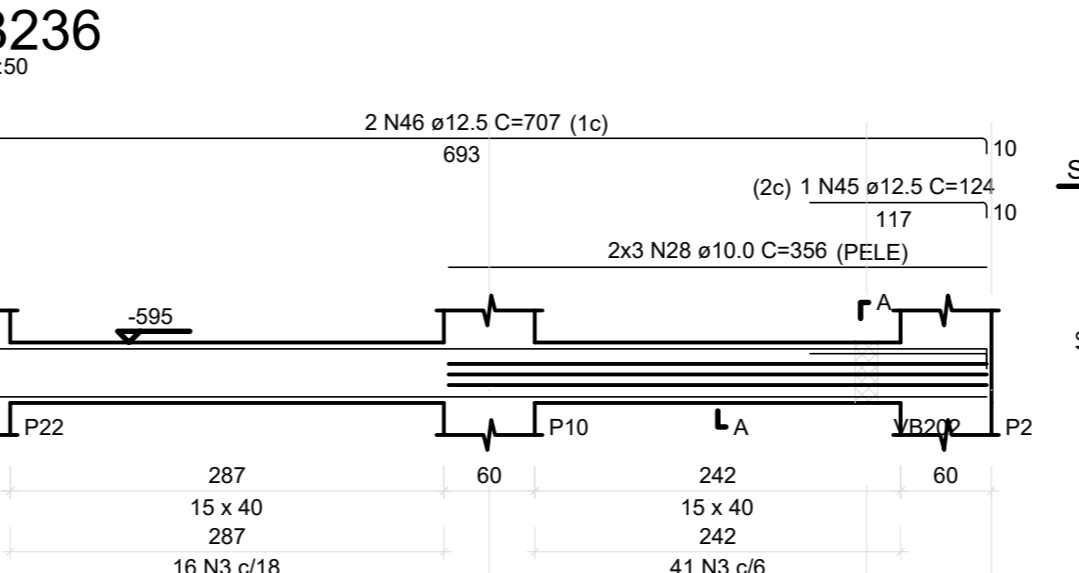
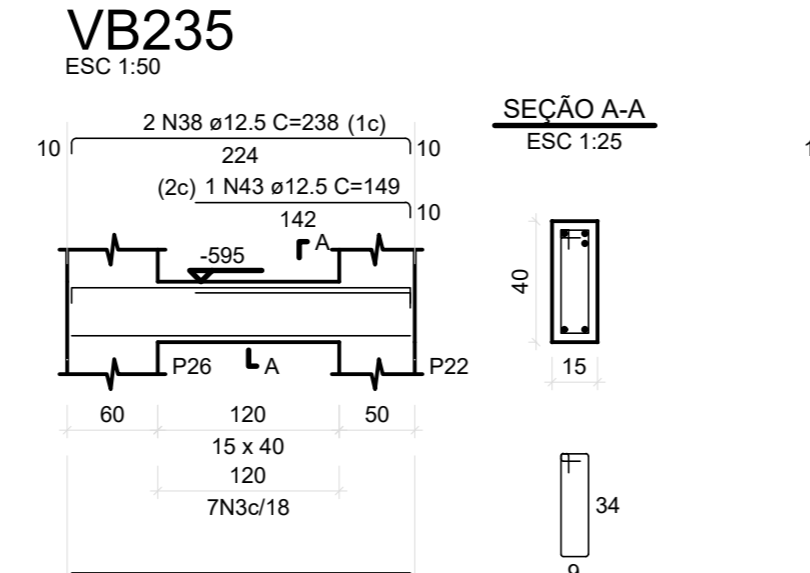
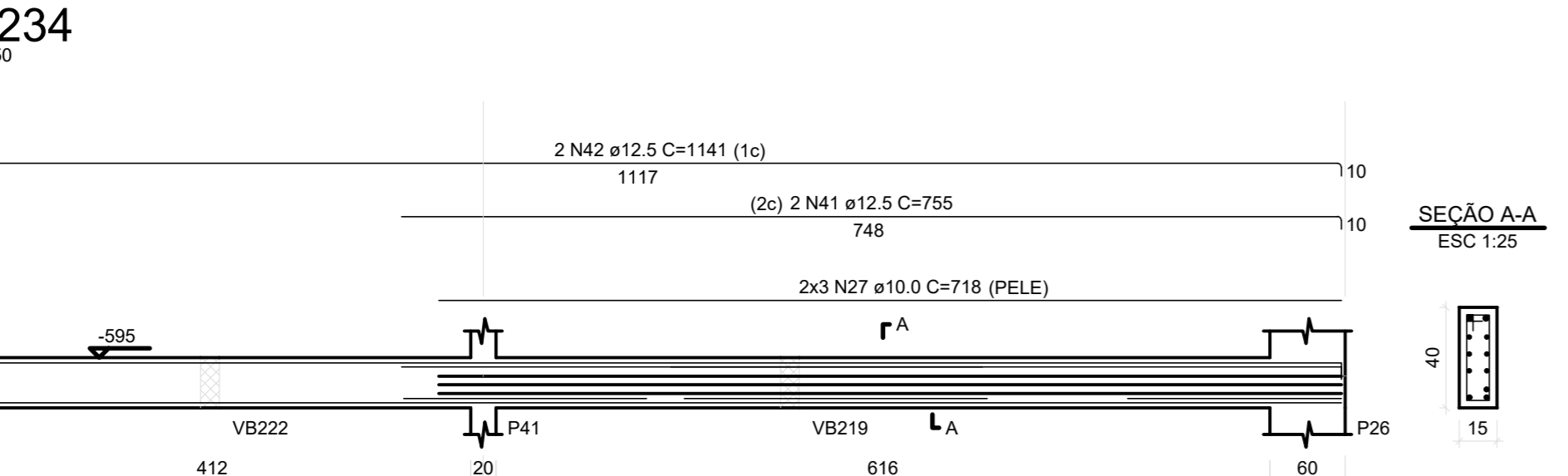
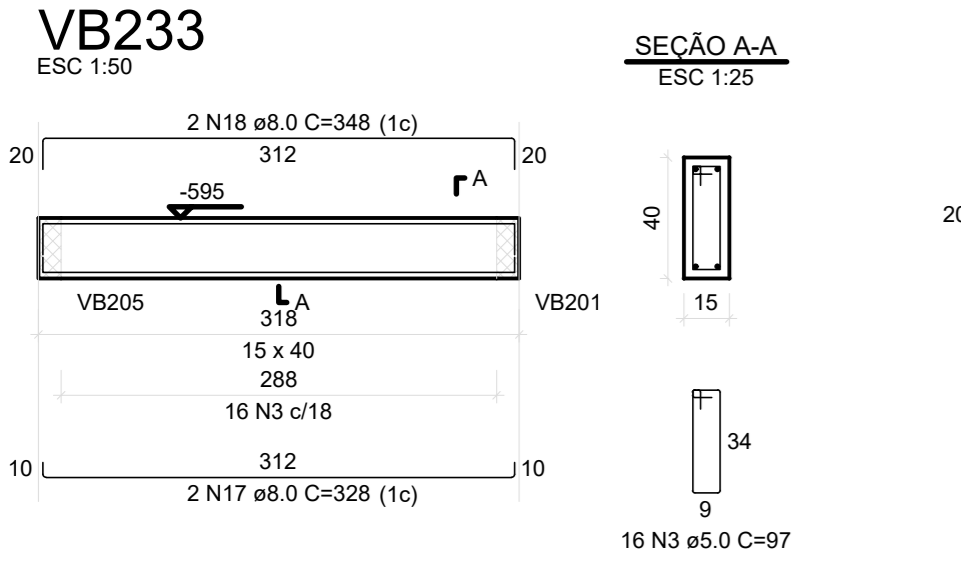
PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO





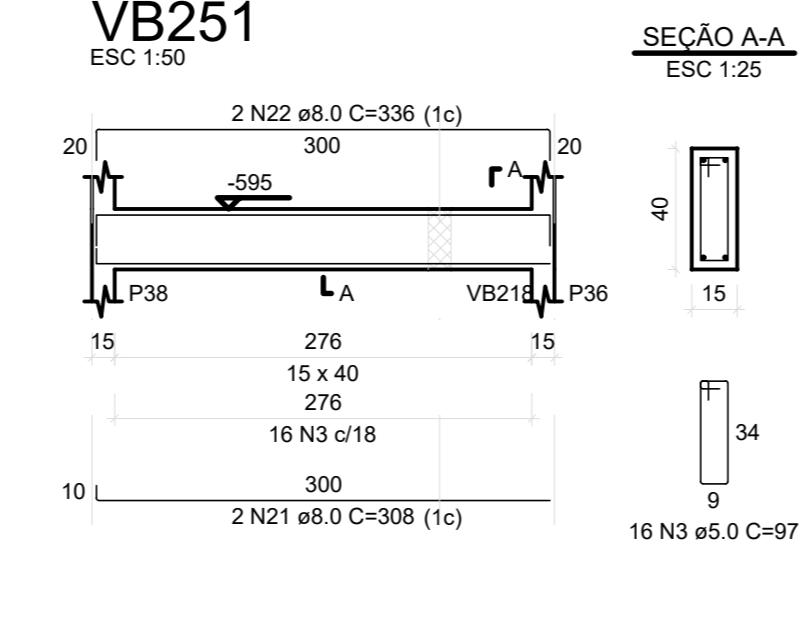
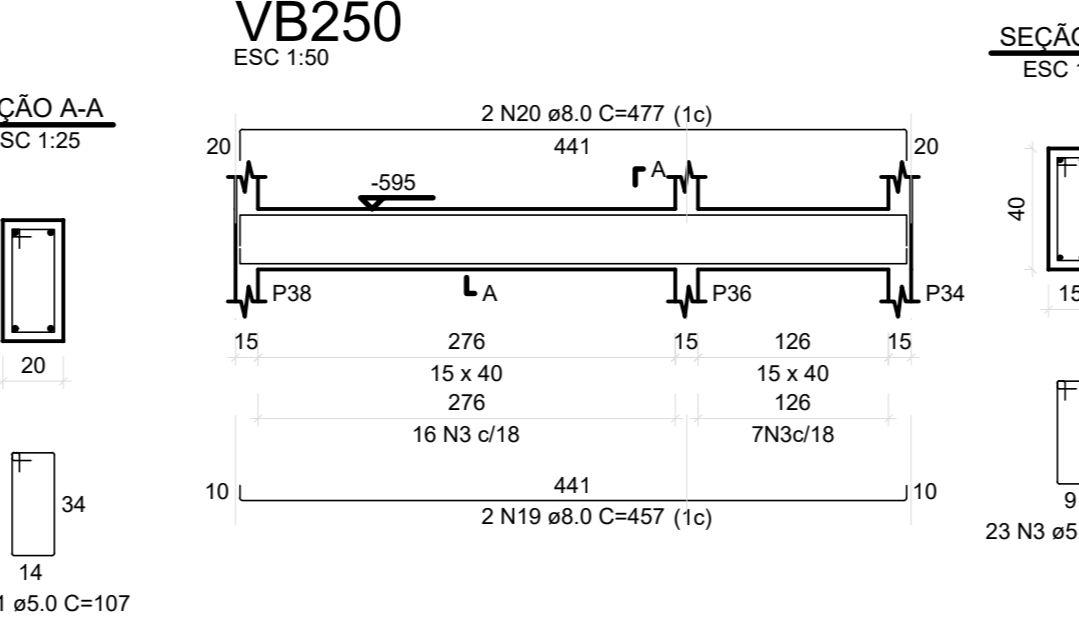
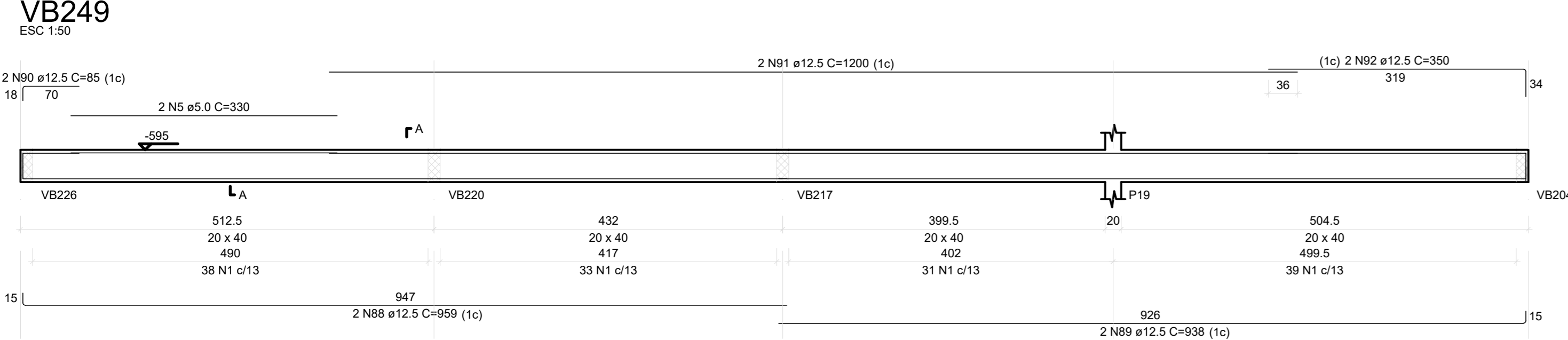
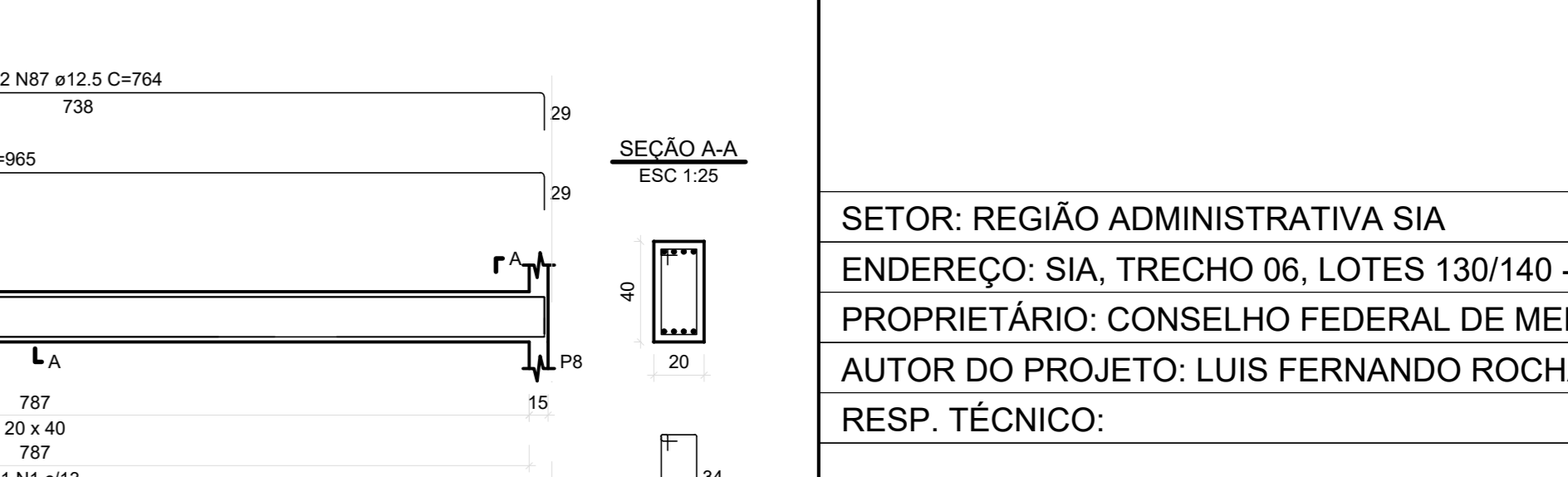
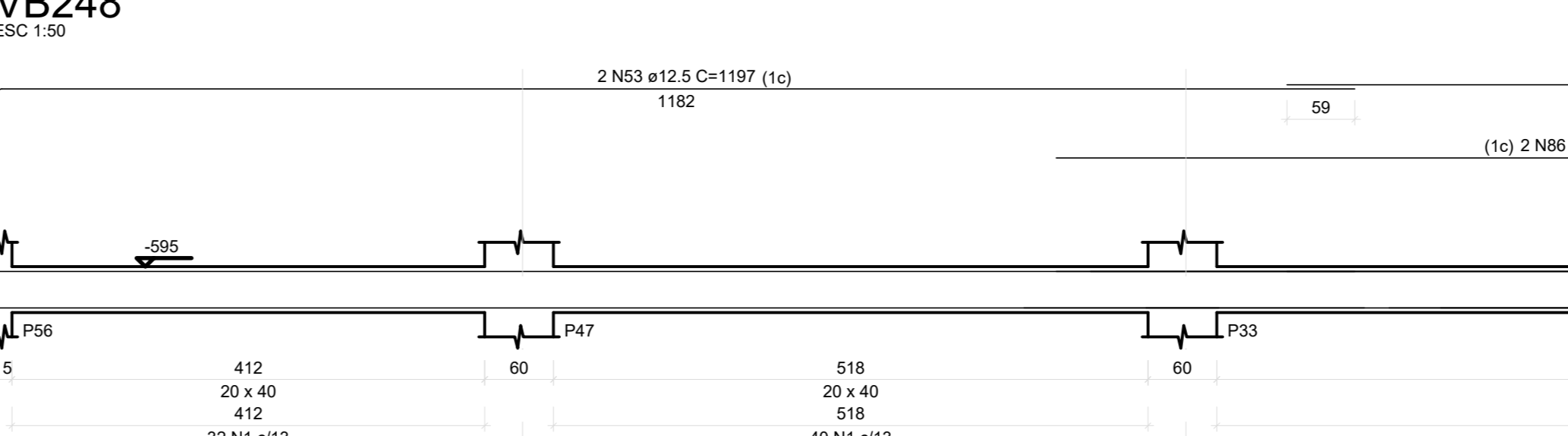
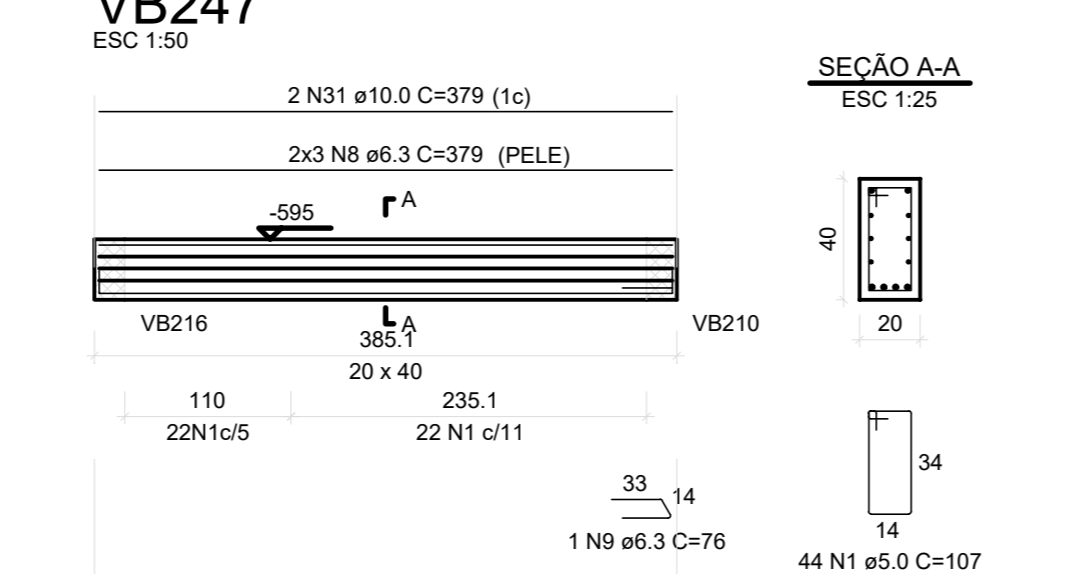
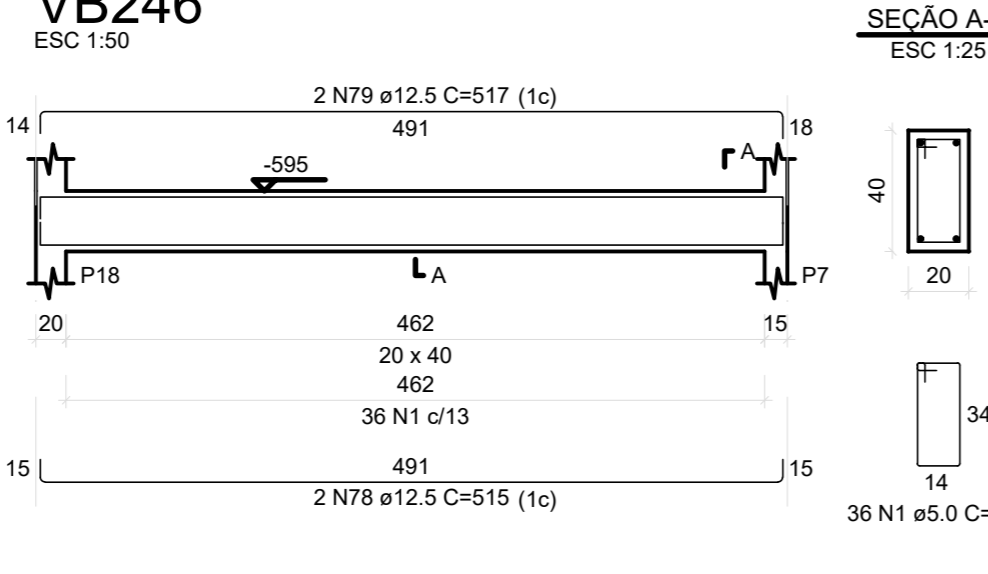
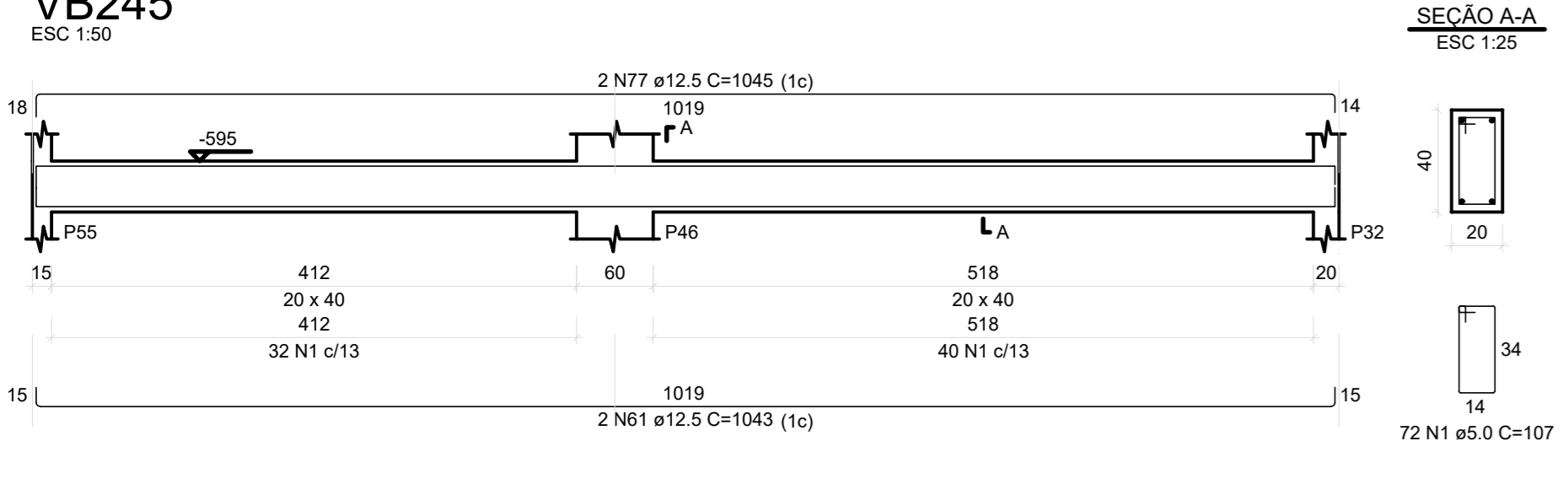
RELACÃO DO AÇO - Vigas do 2º Subsolo

ACO	N	DIAM (mm)	QUANT	C. LIMITE (cm)	C. TOTAL (cm)
1	1	10.0	1000	100	1100
2	1	12.5	300	100	1100
3	1	15.0	100	100	1100
4	1	18.0	100	100	1100
5	1	20.0	100	100	1100
6	1	25.0	100	100	1100
7	1	30.0	100	100	1100
8	1	35.0	100	100	1100
9	1	40.0	100	100	1100
10	1	45.0	100	100	1100
11	1	50.0	100	100	1100
12	1	55.0	100	100	1100
13	1	60.0	100	100	1100
14	1	65.0	100	100	1100
15	1	70.0	100	100	1100
16	1	75.0	100	100	1100
17	1	80.0	100	100	1100
18	1	85.0	100	100	1100
19	1	90.0	100	100	1100
20	1	95.0	100	100	1100
21	1	100.0	100	100	1100
22	1	105.0	100	100	1100
23	1	110.0	100	100	1100
24	1	115.0	100	100	1100
25	1	120.0	100	100	1100
26	1	125.0	100	100	1100
27	1	130.0	100	100	1100
28	1	135.0	100	100	1100
29	1	140.0	100	100	1100
30	1	145.0	100	100	1100
31	1	150.0	100	100	1100
32	1	155.0	100	100	1100
33	1	160.0	100	100	1100
34	1	165.0	100	100	1100
35	1	170.0	100	100	1100
36	1	175.0	100	100	1100
37	1	180.0	100	100	1100
38	1	185.0	100	100	1100
39	1	190.0	100	100	1100
40	1	195.0	100	100	1100
41	1	200.0	100	100	1100
42	1	205.0	100	100	1100
43	1	210.0	100	100	1100
44	1	215.0	100	100	1100
45	1	220.0	100	100	1100
46	1	225.0	100	100	1100
47	1	230.0	100	100	1100
48	1	235.0	100	100	1100
49	1	240.0	100	100	1100
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70	1	345.0	100	100	1100
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75	1	370.0	100	100	1100
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78	1	385.0	100	100	1100
79	1	390.0	100	100	1100
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81	1	400.0	100	100	1100
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83	1	410.0	100	100	1100
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86	1	425.0	100	100	1100
87	1	430.0	100	100	1100
88	1	435.0	100	100	1100
89	1	440.0	100	100	1100
90	1	445.0	100	100	1100
91	1	450.0	100	100	1100
92	1	455.0	100	100	1100
93	1	460.0	100	100	1100
94	1	465.0	100	100	1100
95	1	470.0	100	100	1100
96	1	475.0	100	100	1100
97	1	480.0	100	100	1100
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99	1	490.0	100	100	1100
100	1	495.0	100	100	1100



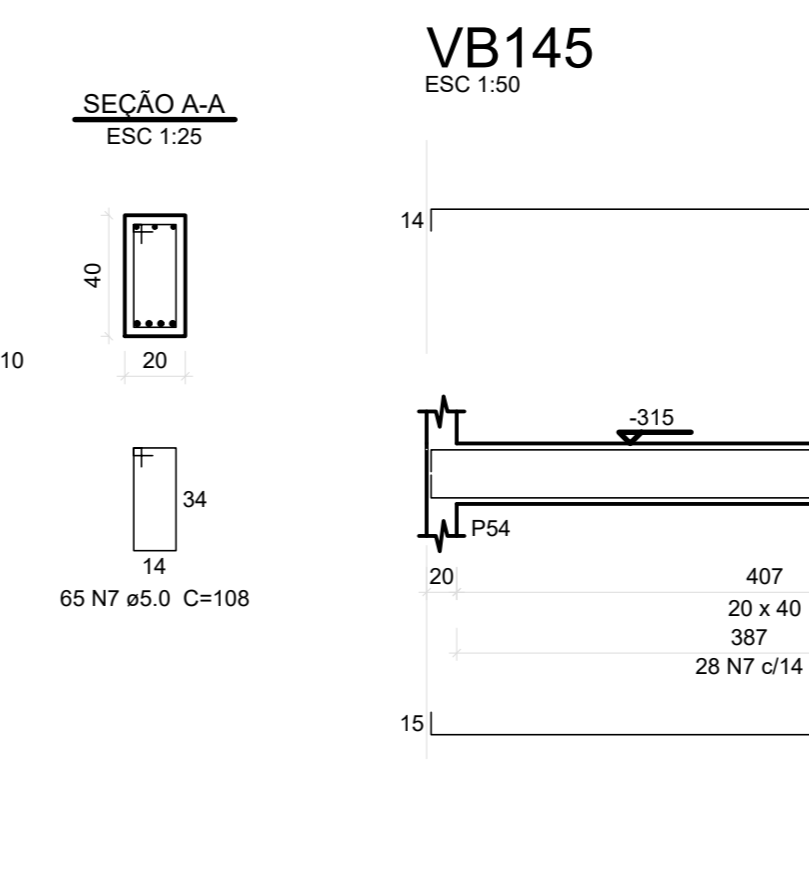
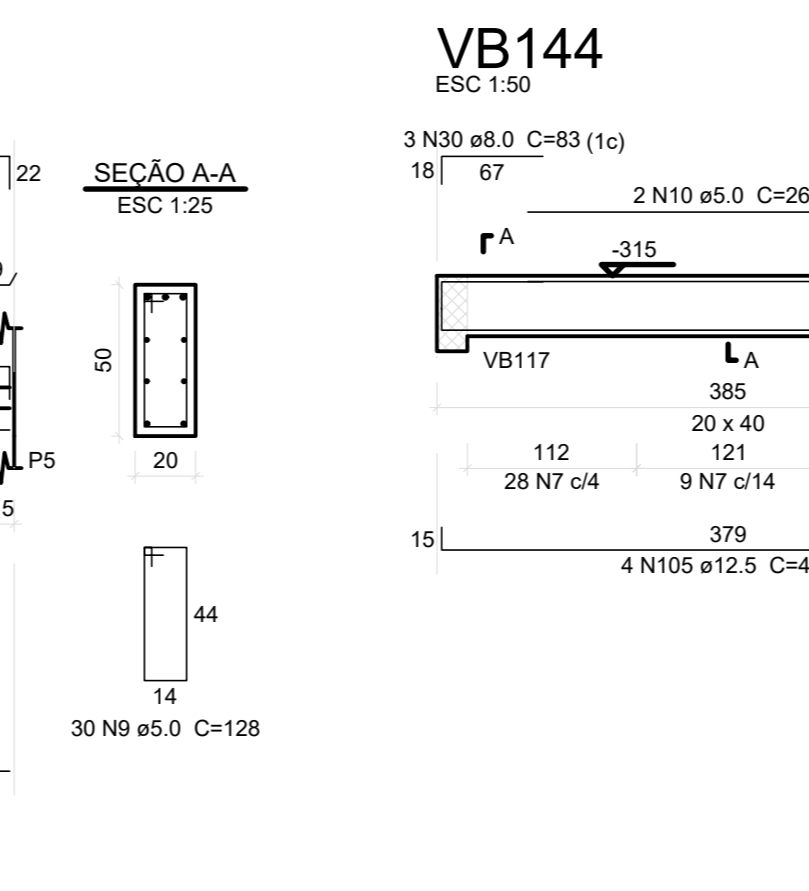
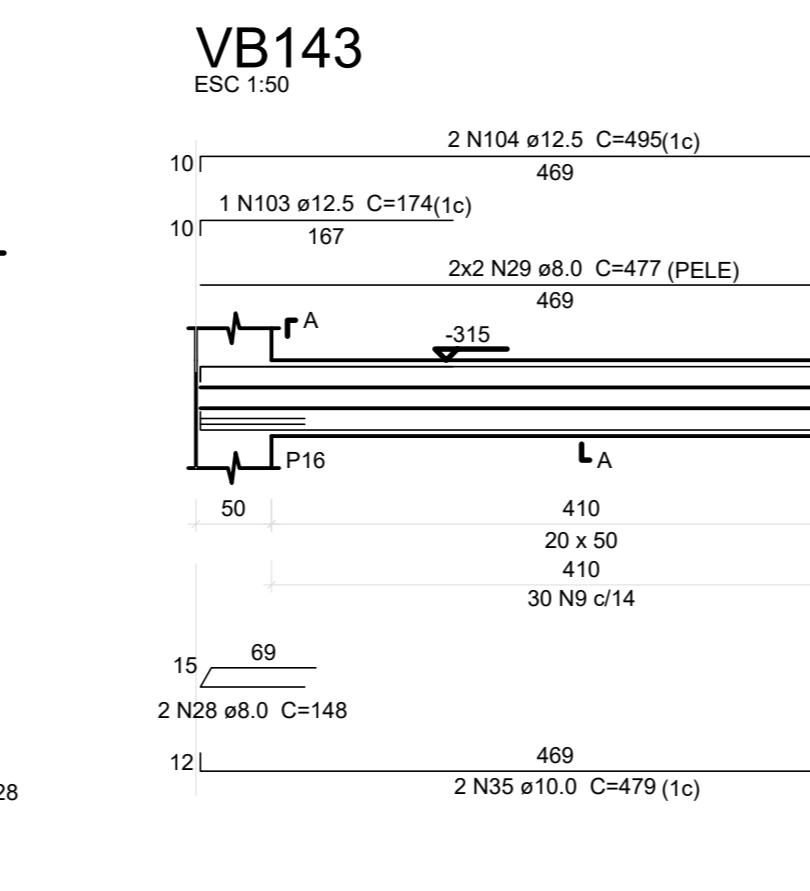
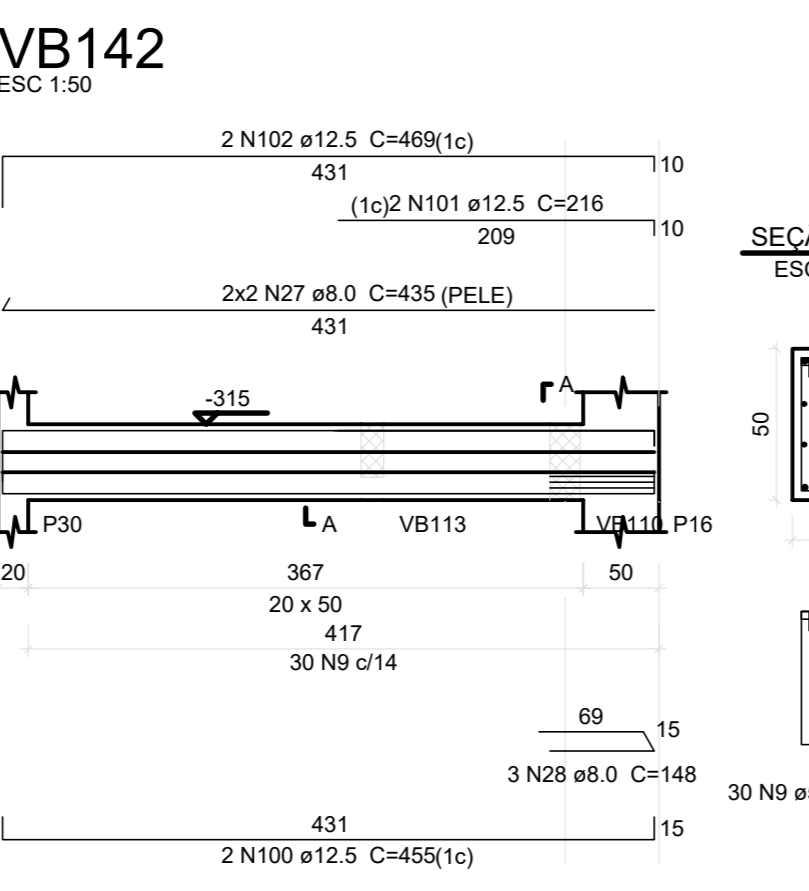
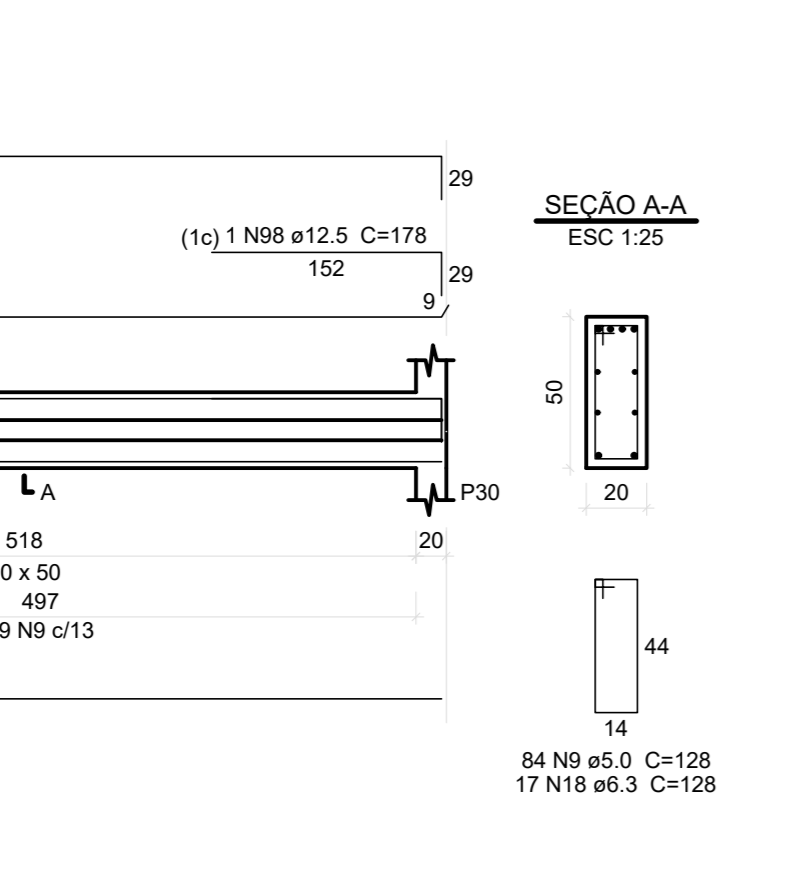
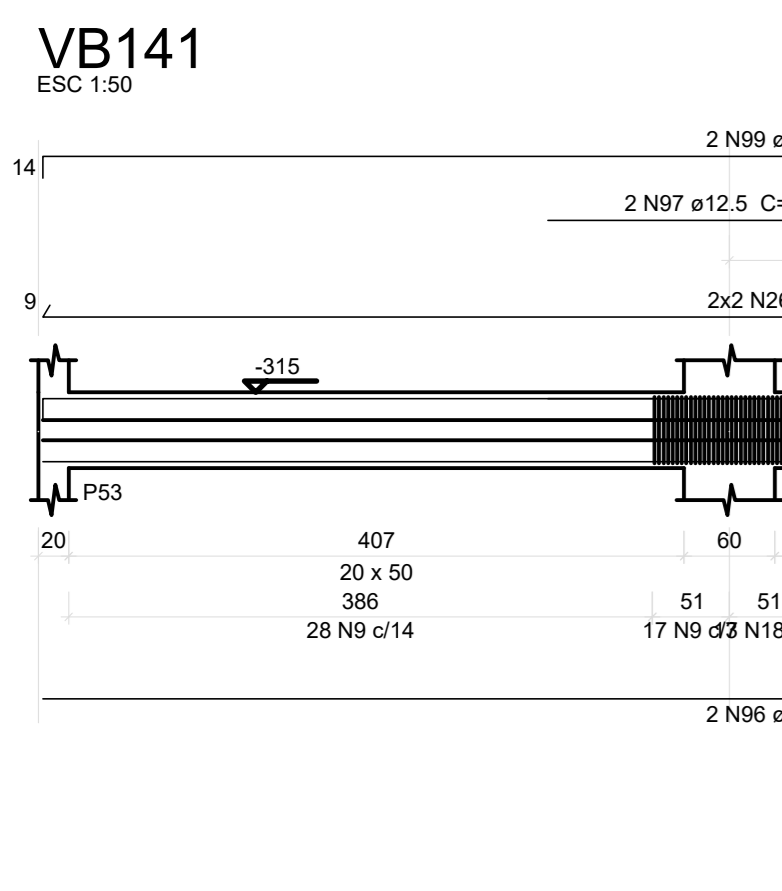
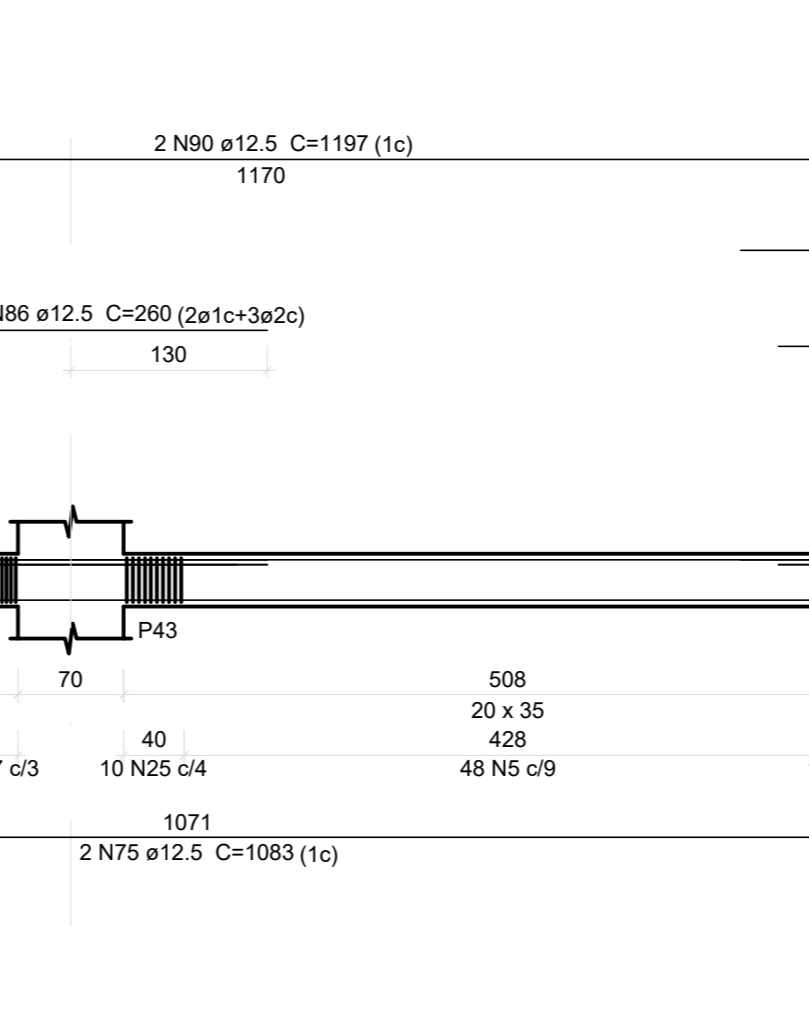
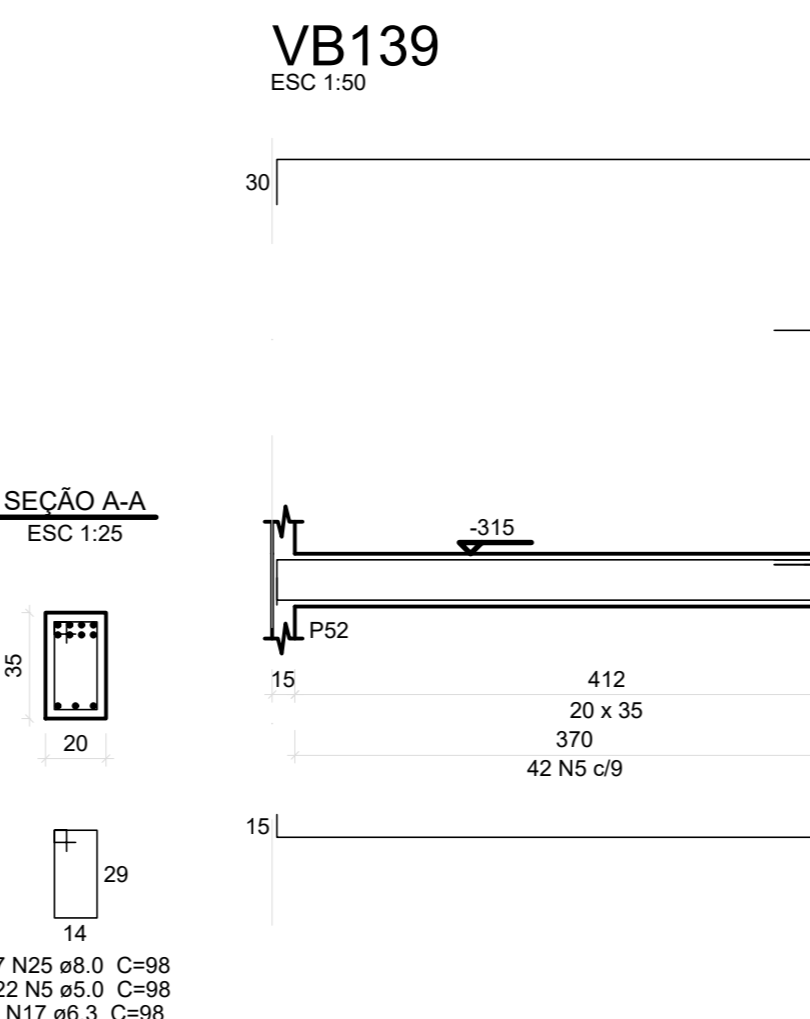
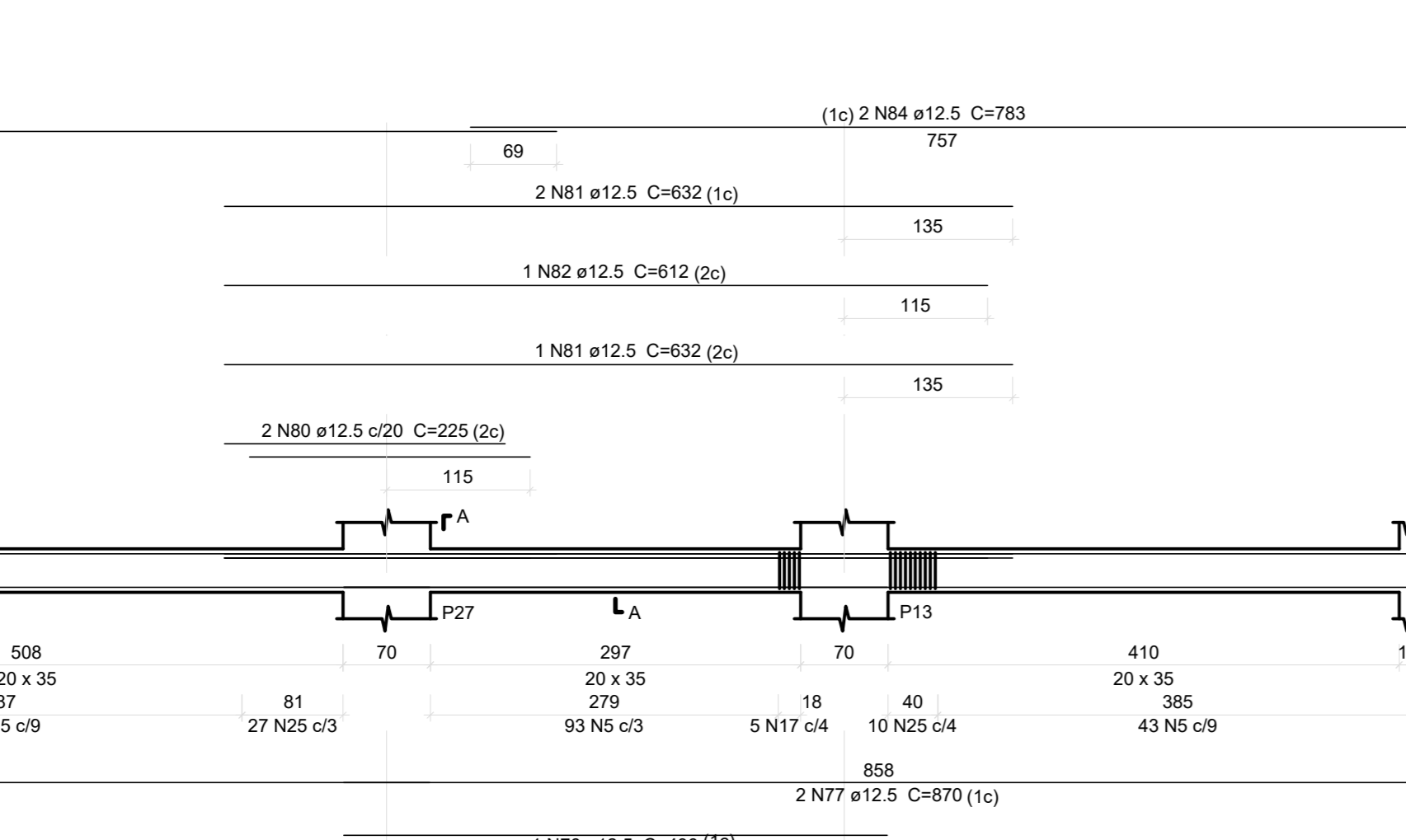
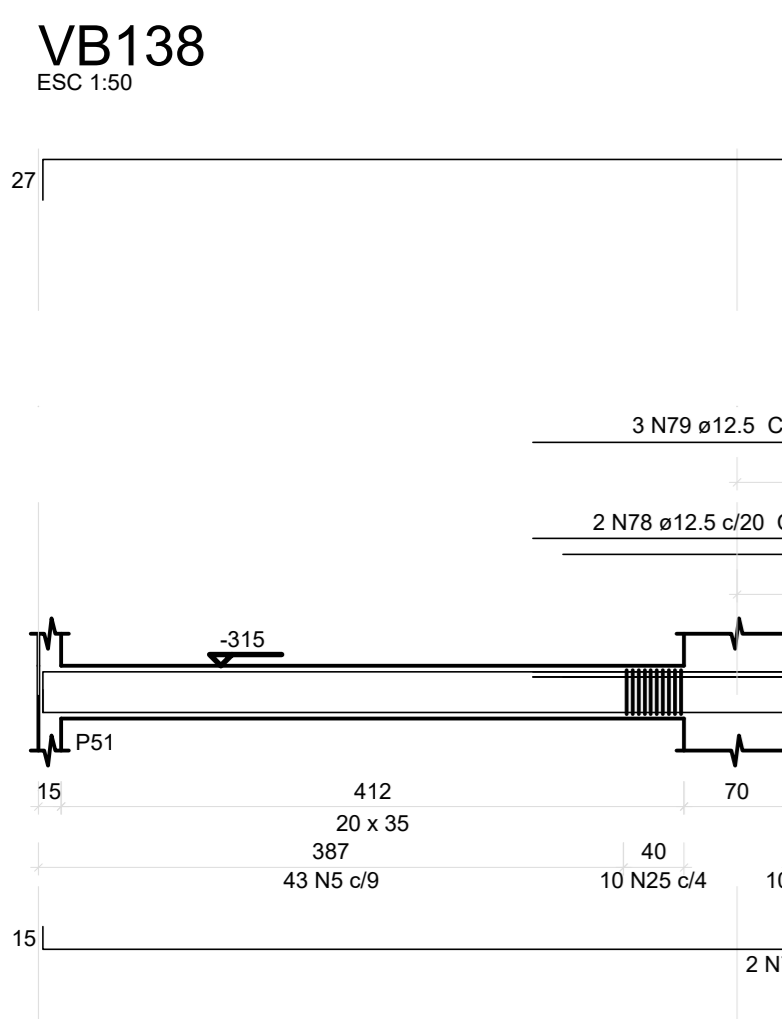
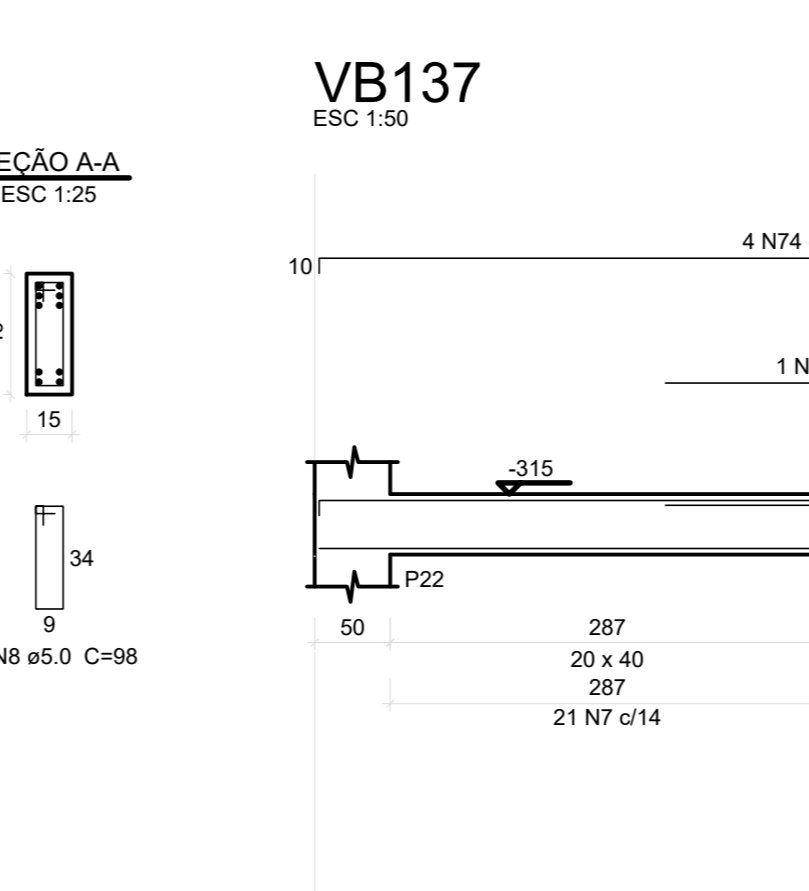
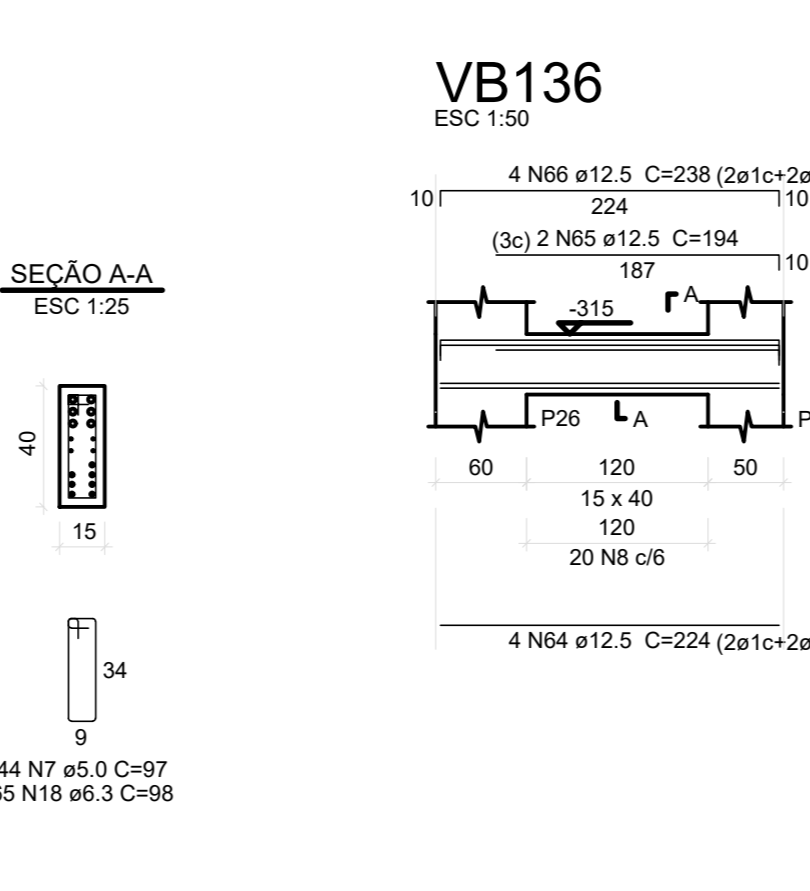
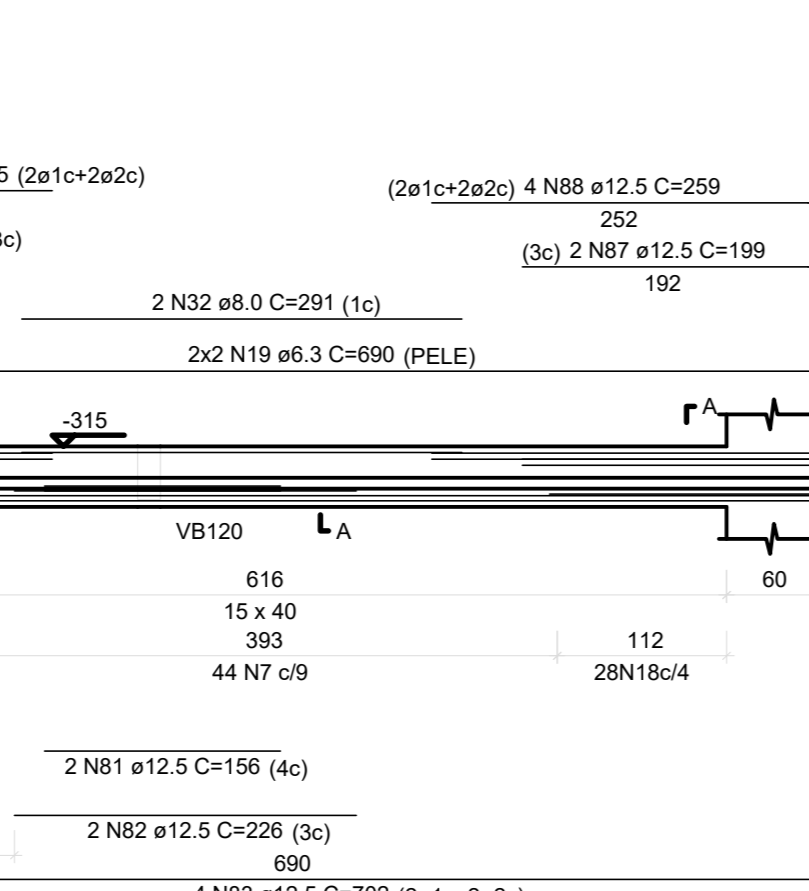
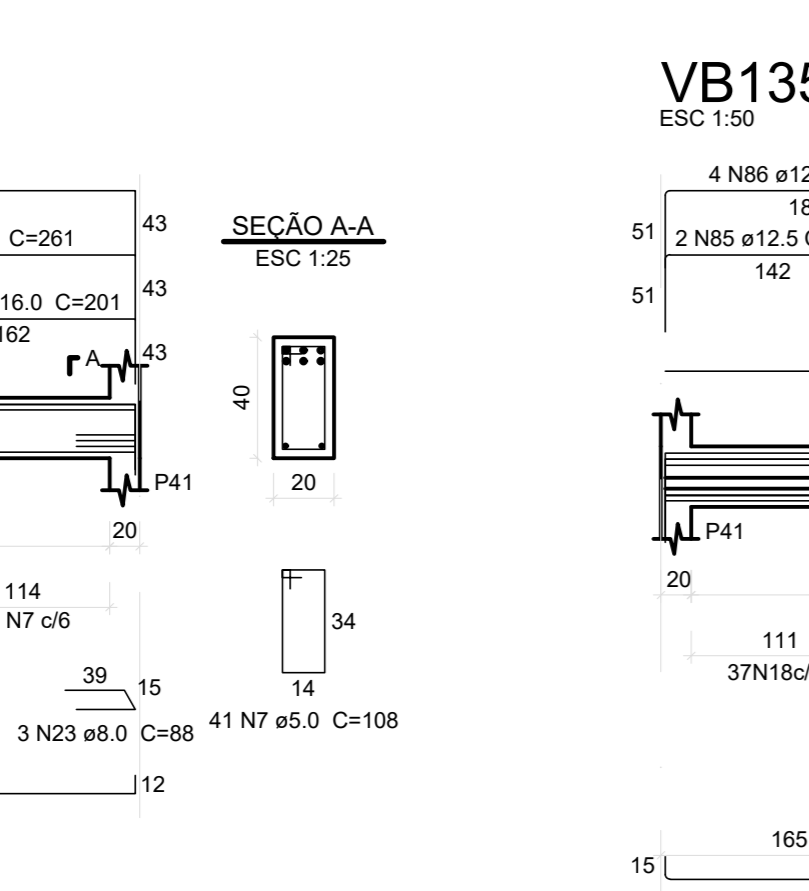
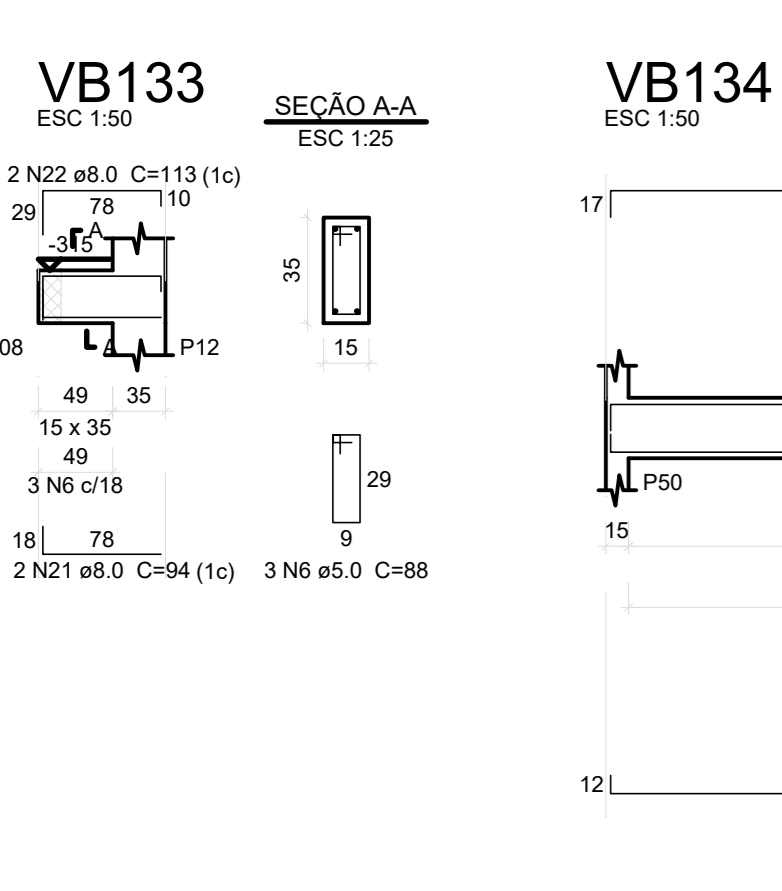
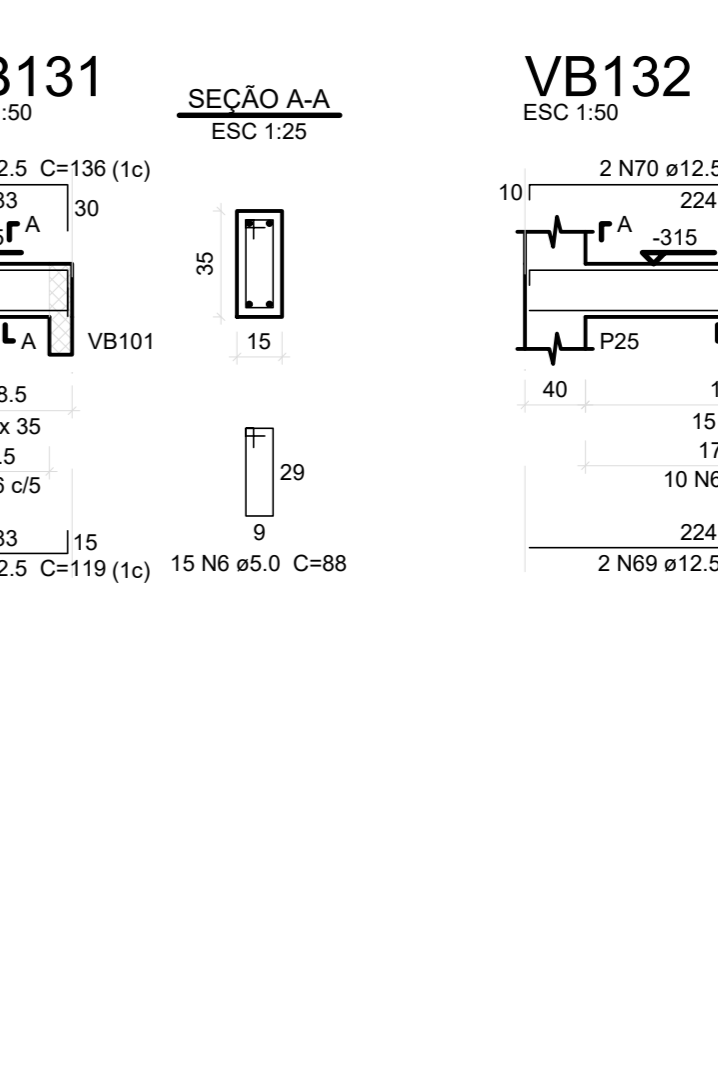
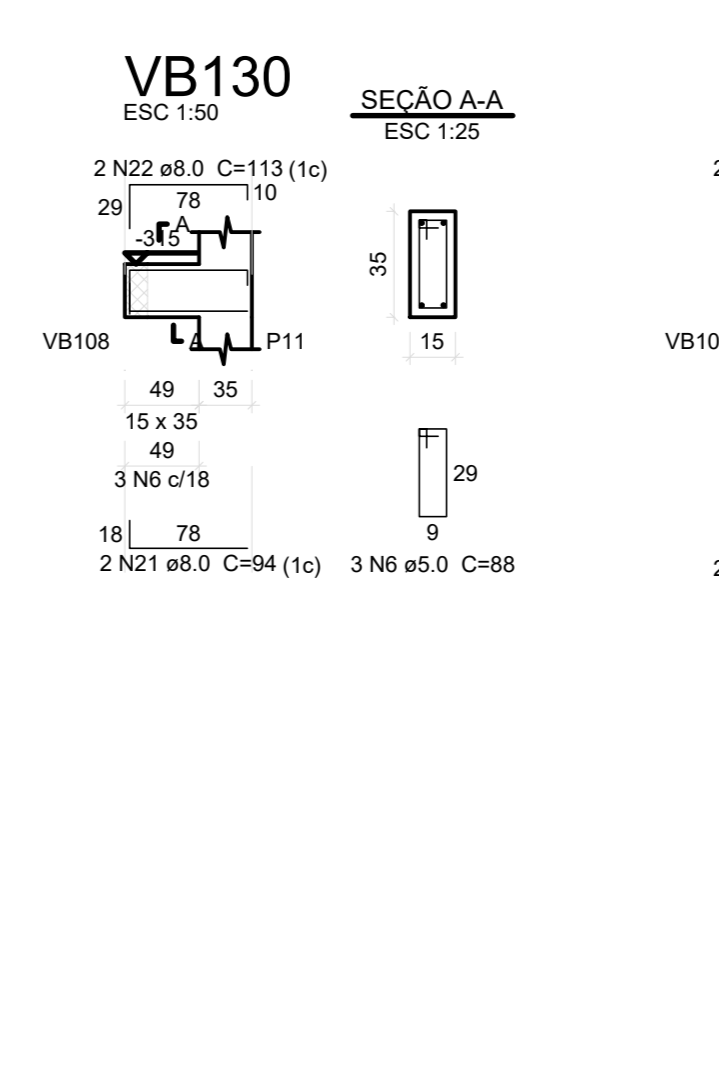
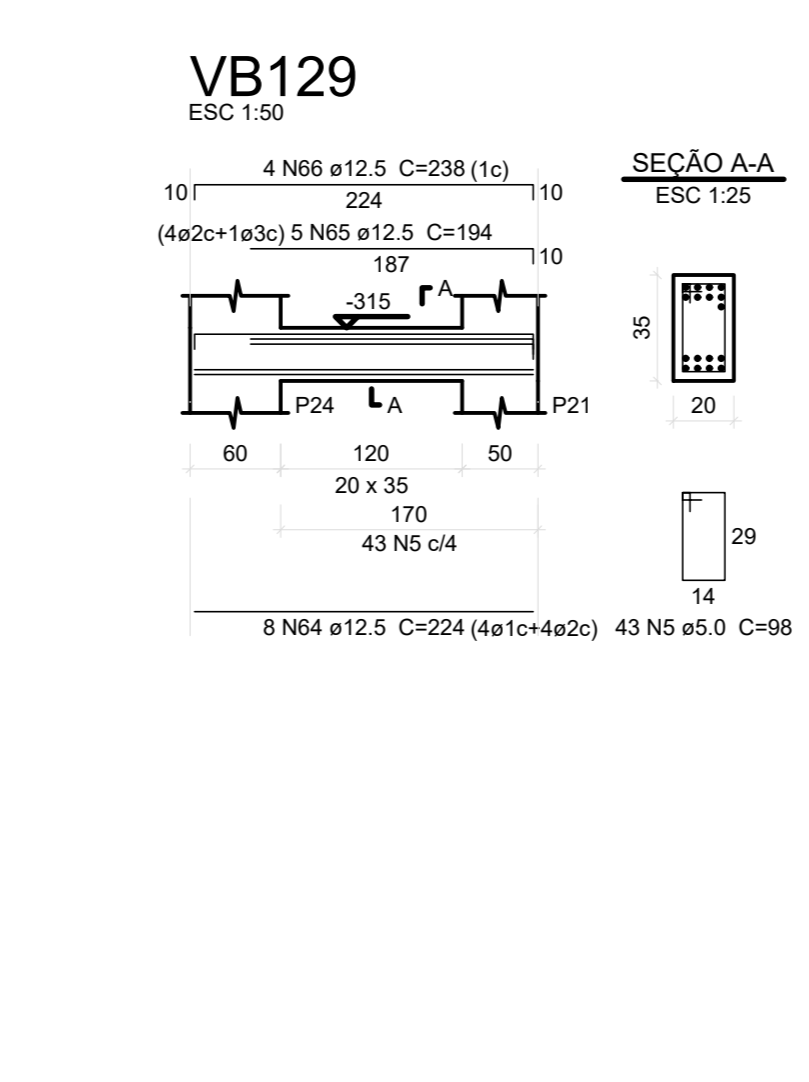
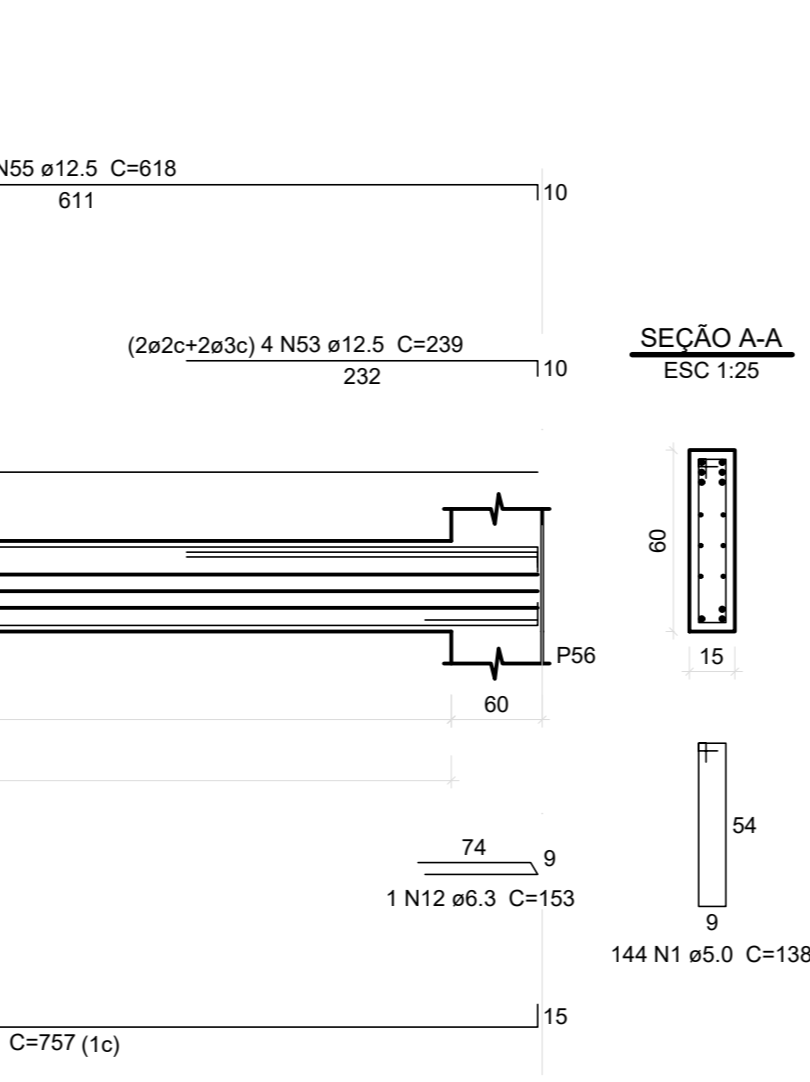
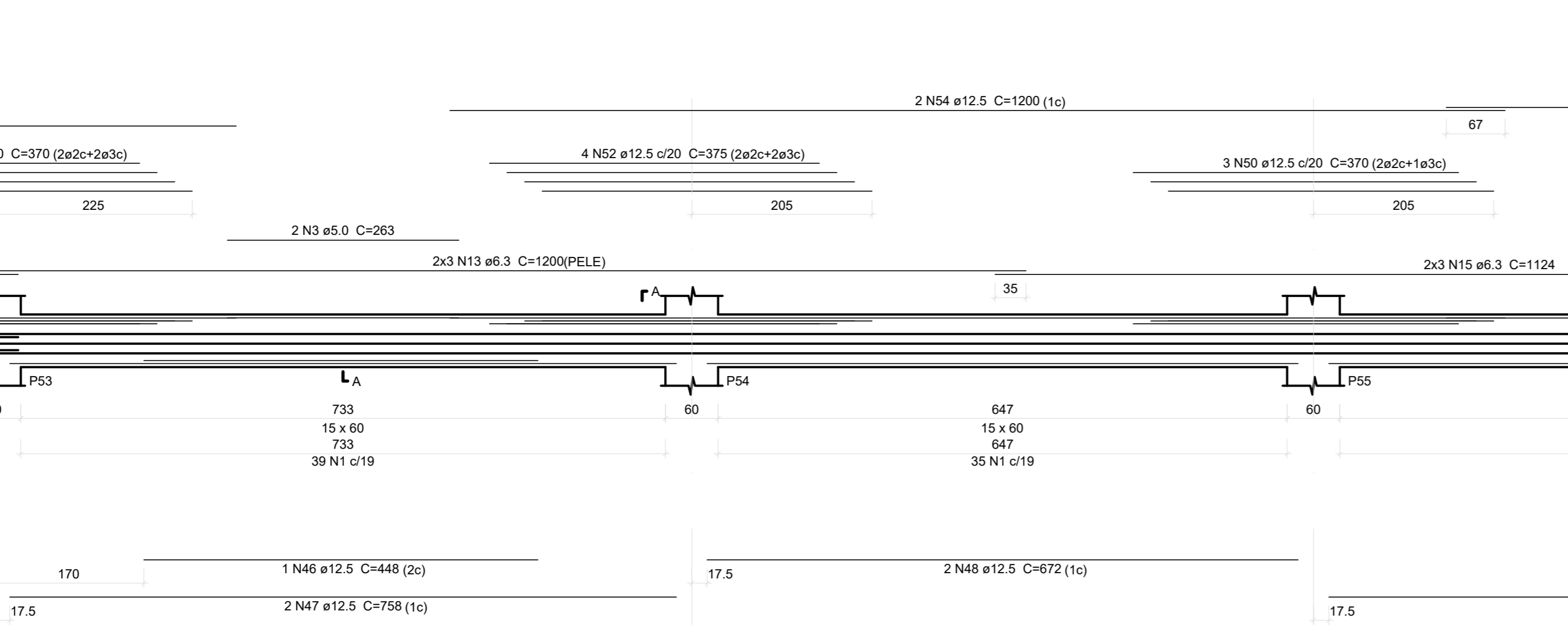
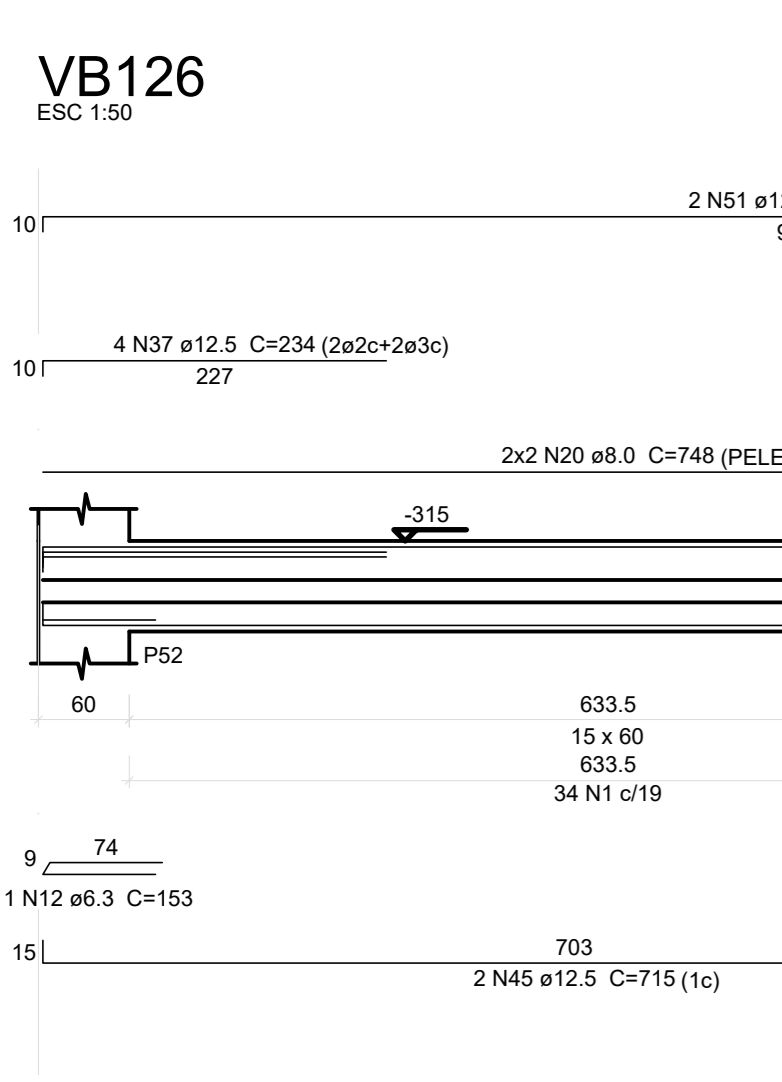
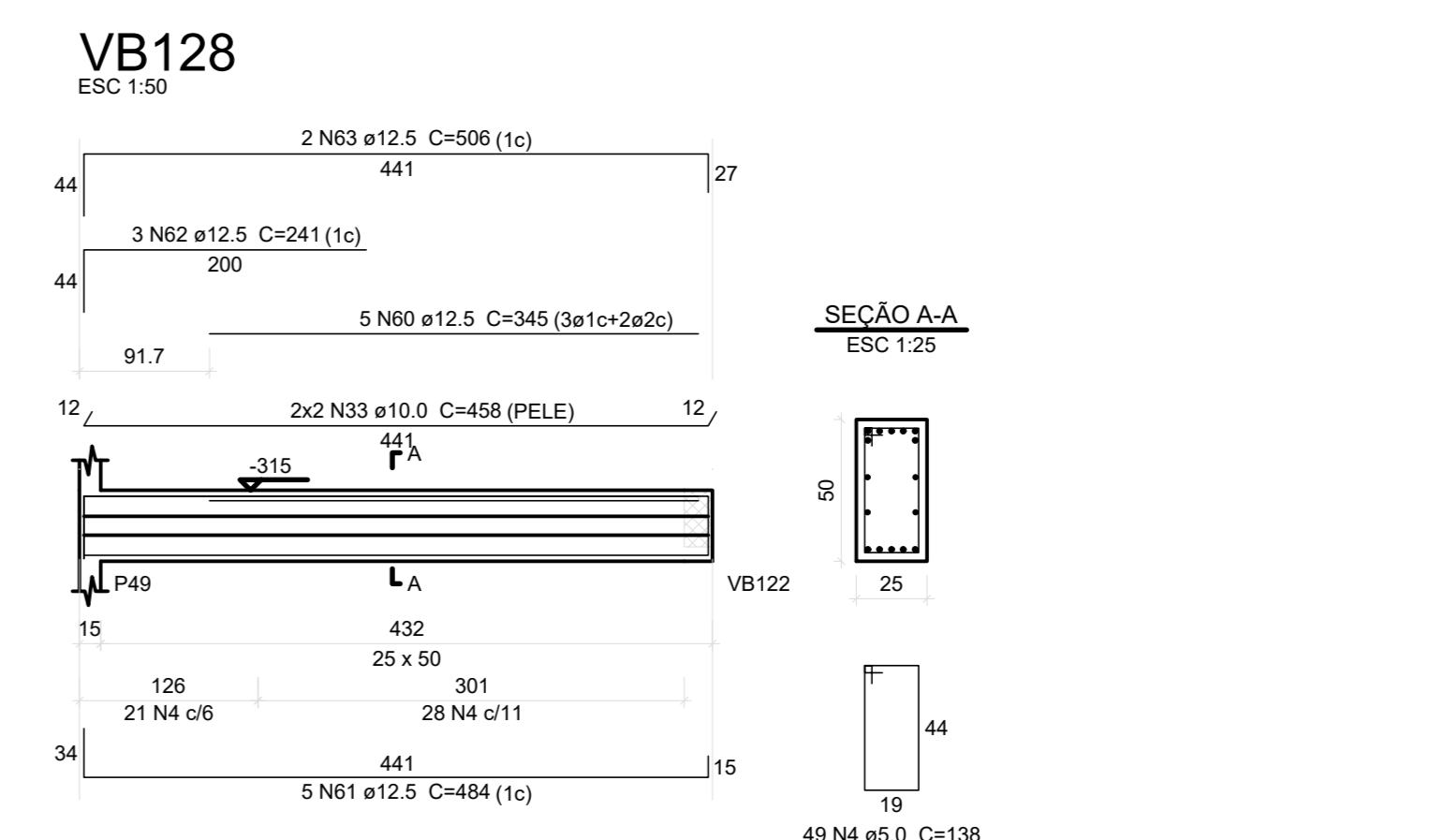
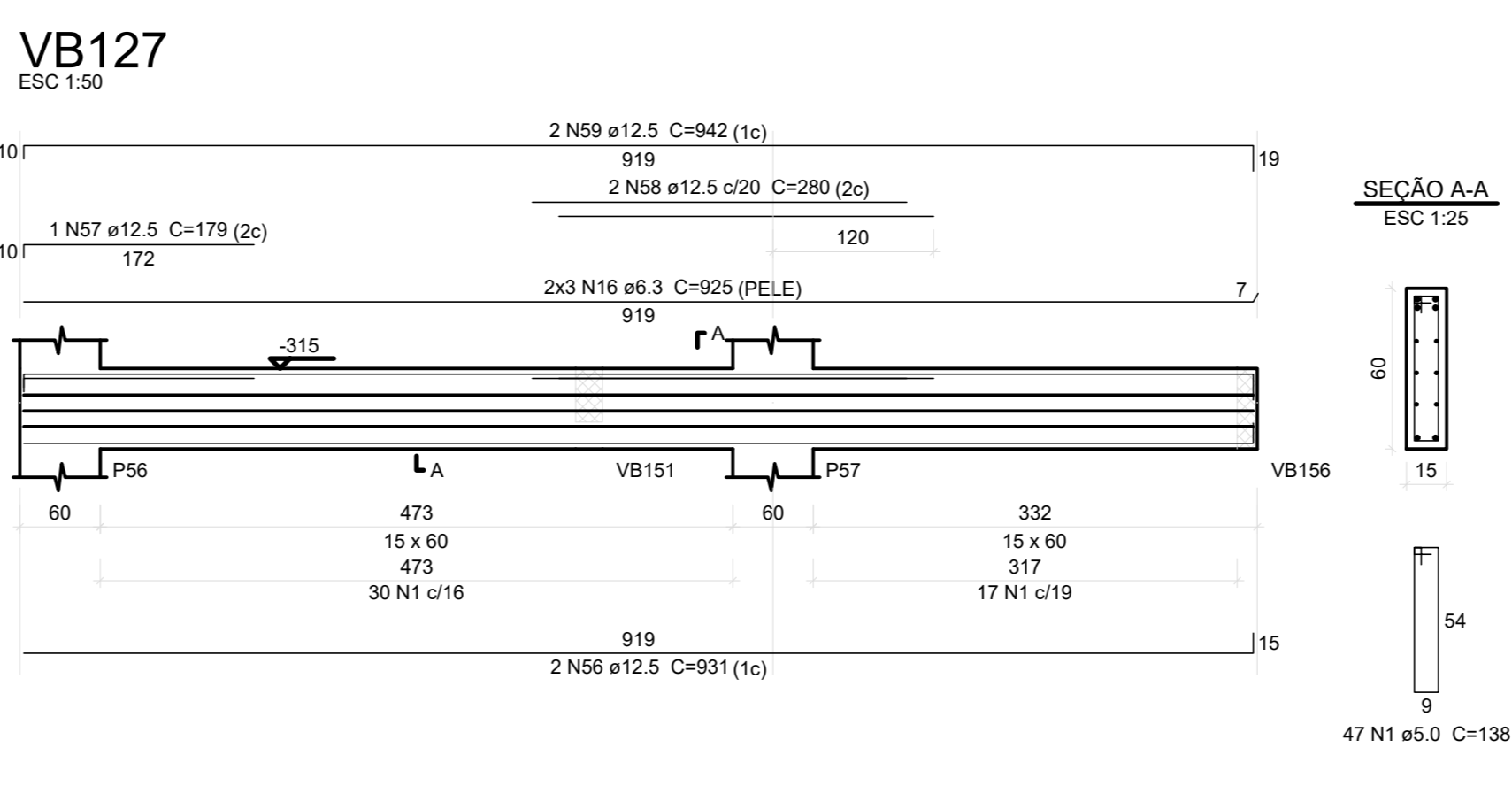
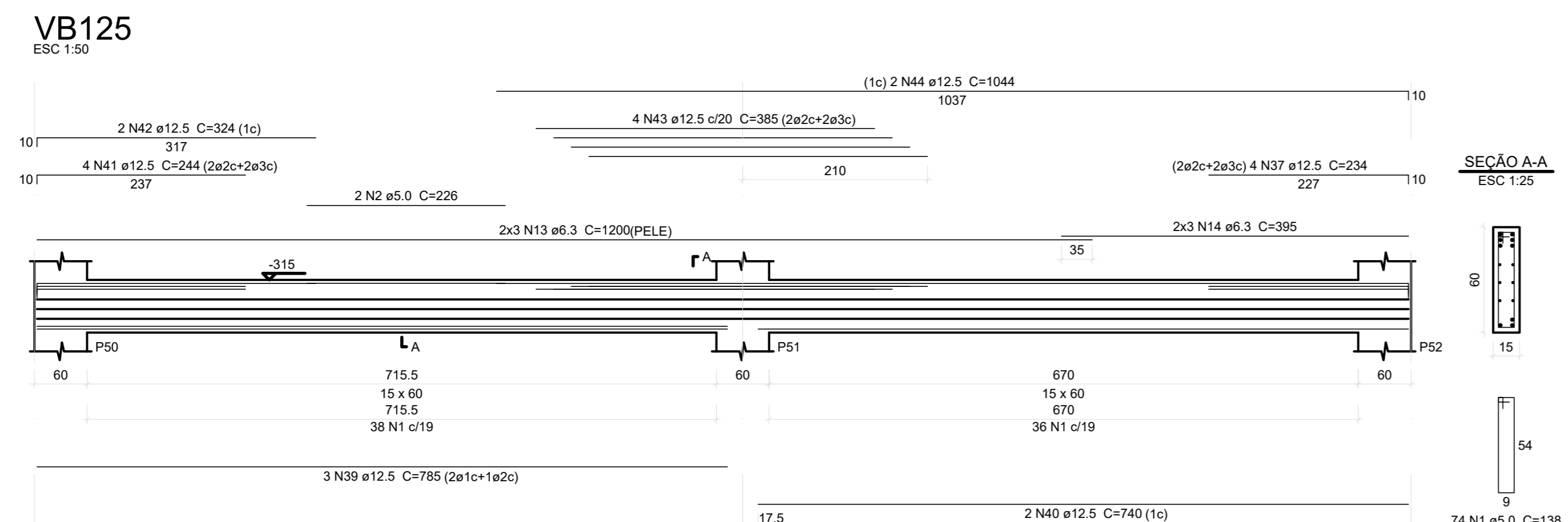
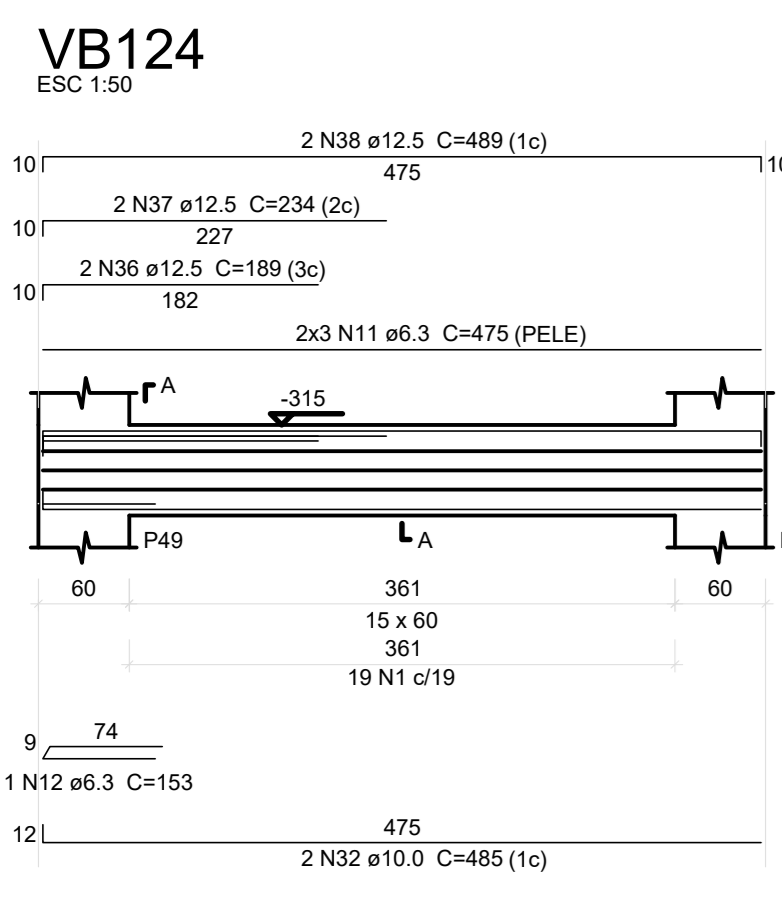
RESUMO DO AÇO

ACO	DIAM (mm)	C. TOTAL (cm)	PESO + 10% (kg)
1	10.0	1100	14.7
2	12.5	1100	34.4
3	15.0	1100	43.8
4	18.0	1100	55.0
5	20.0	1100	68.0
6	25.0	1100	105.3
7	30.0	1100	160.1
8	35.0	1100	230.1
9	40.0	1100	310.0
10	45.0	1100	400.0
11	50.0	1100	500.0
12	55.0	1100	610.0
13	60.0	1100	730.0
14	65.0	1100	860.0
15	70.0	1100	1000.0
16	75.0	1100	1150.0
17	80.0	1100	1310.0
18	85.0	1100	1480.0
19	90.0	1100	1660.0
20	95.0	1100	1850.0
21	100.0	1100	2050.0
22	105.0	1100	2260.0
23	110.0	1100	2480.0
24	115.0	1100	2710.0
25	120.0	1100	2950.0
26	125.0	1100	3200.0
27	130.0	1100	3460.0
28	135.0	1100	3730.0
29	140.0	1100	4010.0
30	145.0	1100	4300.0
31	150.0	1100	4600.0
32	155.0	1100	4920.0
33	160.0	1100	5250.0
34	165.0	1100	5600.0
35	170.0	1100	5970.0
36	175.0	1100	6360.0
37	180.0	1100	6770.0
38	185.0	1100	7200.0
39	190.0	1100	7650.0
40	195.0	1100	8120.0
41	200.0	1100	8610.0
42	205.0	1100	9120.0
43	210.0	1100	9650.0
44	215.0	1100	10200.0
45	220.0	1100	10770.0
46	225.0	1100	11360.0
47	230.0	1100	11970.0
48	235.0	1100	12600.0
49	240.0	1100	13250.0
50	245.0	1100	13920.0
51	250.0	1100	14610.0
52	255.0	1100	15320.0
53	260.0	1100	16050.0
54	265.0	1100	16800.0
55	270.0	1100	17570.0
56	275.0	1100	18360.0
57	280.0	1100	19170.0
58	285.0	1100	20000.0
59	290.0	1100	20840.0
60	295.0	1100	21700.0
61	300.0	1100	22570.0
62	305.0	1100	23460.0
63	310.0	1100	24370.0
64	315.0	1100	25290.0
65	320.0	1100	26230.0
66	325.0	1100	27180.0
67	330.0	1100	28150.0
68	335.0	1100	29130.0
69	340.0	1100	30130.0
70	345.0	1100	31140.0
71	350.0	1100	32160.0
72	355.0	1100	33190.0
73	360.0	1100	34230.0
74	365.0	1100	35280.0
75	370.0	1100	36340.0
76	375.0	1100	37410.0
77	380.0	1100	38490.0
78	385.0	1100	39580.0
79	390.0	1100	40680.0
80	395.0	1100	41790.0
81	400.0	1100	42900.0
82	405.0	1100	44020.0
83	410.0	1100	45150.0
84	415.0	1100	46290.0
85	420.0	1100	47440.0
86	425.0	1100	48600.0
87	430.0	1100	49770.0
88	435.0	1100	50950.0
89	440.0	1100	52140.0
90	445.0	1100	53340.0
91	450.0	1100	54550.0
92	455.0	1100	55770.0
93	460.0	1100	57000.0
94	465.0	1100	58230.0
95	470.0	1100	59470.0
96	475.0	1100	60720.0
97	480.0	1100	61980.0
98	485.0	1100	63250.0
99	490.0	1100	64530.0
100	495.0	1100	65820.0









CA80	N	DIAM	QUANT	CLUNET	C.TOTAL
	1	5.0	284	138	39192
	2	5.0	2	206	452
	3	5.0	2	263	528
	4	5.0	48	138	6760
	5	5.0	473	98	46354
	6	5.0	47	88	4136
	7	5.0	184	108	19872
	8	5.0	20	98	1960
	9	5.0	144	128	18432
	10	5.0	2	265	530
	11	6.3	6	475	2955
	12	6.3	3	153	459
	13	6.3	12	1000	14400
	14	6.3	6	265	2370
	15	6.3	6	1124	6744
	16	6.3	13	6560	85280
	17	6.3	33	98	3234
	18	6.3	13	2178	28314
	19	6.3	167	108	18036
	20	8.0	4	748	2992
	21	8.0	4	94	376
	22	8.0	4	113	452
	23	8.0	3	88	264
	24	8.0	2	138	276
	25	8.0	77	98	7546
	26	8.0	4	1032	4128
	27	8.0	4	435	1740
	28	8.0	5	148	740
	29	8.0	4	477	1908
	30	8.0	6	63	498
	31	8.0	8	108	864
	32	10.0	2	460	910
	33	10.0	4	458	1832
	34	10.0	2	779	960
	35	10.0	2	189	378
	36	12.5	2	189	378
	37	12.5	3	240	720
	38	12.5	2	489	978
	39	12.5	3	785	2355
	40	12.5	2	740	1480
	41	12.5	4	235	970
	42	12.5	2	324	648
	43	12.5	4	385	1540
	44	12.5	2	448	896
	45	12.5	2	715	1430
	46	12.5	3	448	1344
	47	12.5	2	758	1516
	48	12.5	4	672	2688
	49	12.5	2	757	1514
	50	12.5	7	370	2590
	51	12.5	2	1003	2006
	52	12.5	4	375	1500
	53	12.5	3	966	2898
	54	12.5	2	1200	2400
	55	12.5	2	618	1236
	56	12.5	2	931	1862
	57	12.5	1	179	179
	58	12.5	2	280	560
	59	12.5	2	942	1884
	60	12.5	2	345	690
	61	12.5	5	484	2420
	62	12.5	3	244	732
	63	12.5	2	506	1012
	64	12.5	12	224	2688
	65	12.5	7	184	1388
	66	12.5	8	238	1904
	67	12.5	2	119	238
	68	12.5	2	136	272
	69	12.5	2	236	472
	70	12.5	2	241	482
	71	12.5	3	363	1089
	72	12.5	3	603	1809
	73	12.5	3	214	642
	74	12.5	4	707	2828
	75	12.5	4	1083	4332
	76	12.5	1	436	872
	77	12.5	4	870	3480
	78	12.5	2	265	530
	79	12.5	3	260	780
	80	12.5	2	225	450
	81	12.5	3	632	1896
	82	12.5	1	612	612
	83	12.5	2	1197	2394
	84	12.5	2	783	1566
	85	12.5	1	533	533
	86	12.5	10	280	2800
	87	12.5	3	579	1737
	88	12.5	2	604	1208
	89	12.5	1	133	133
	90	12.5	3	240	720
	91	12.5	2	788	1576
	92	12.5	3	301	903
	93	12.5	2	431	862
	94	12.5	2	255	510
	95	12.5	2	445	890
	96	12.5	2	1019	2038
	97	12.5	2	405	810
	98	12.5	1	178	178
	99	12.5	4	1056	4224
	100	12.5	2	455	910
	101	12.5	2	216	432
	102	12.5	2	469	938
	103	12.5	1	174	174
	104	12.5	2	1031	2062
	105	12.5	4	403	1612
	106	12.5	2	1031	2062
	107	12.5	2	183	366
	108	16.0	3	201	603
	109	16.0	1	281	281
	110	16.0	2	494	988

**Resumo do aço**

CA80	DIAM	C.TOTAL	PESO + 10%
6.3	588.2	150.3	150.3
8.0	217.9	94.6	94.6
10.0	468.5	31.7	31.7
12.5	968.1	1026.9	1026.9
16.0	188	32.2	32.2
5.0	1382.2	236.3	236.3

CA80 1326.8  
CA80 234.3  
Volume de concreto (C=40) = 11.61 m³  
Área de fôrma = 185.96 m²

Revisões da prancha

Nº	Descrição	Data

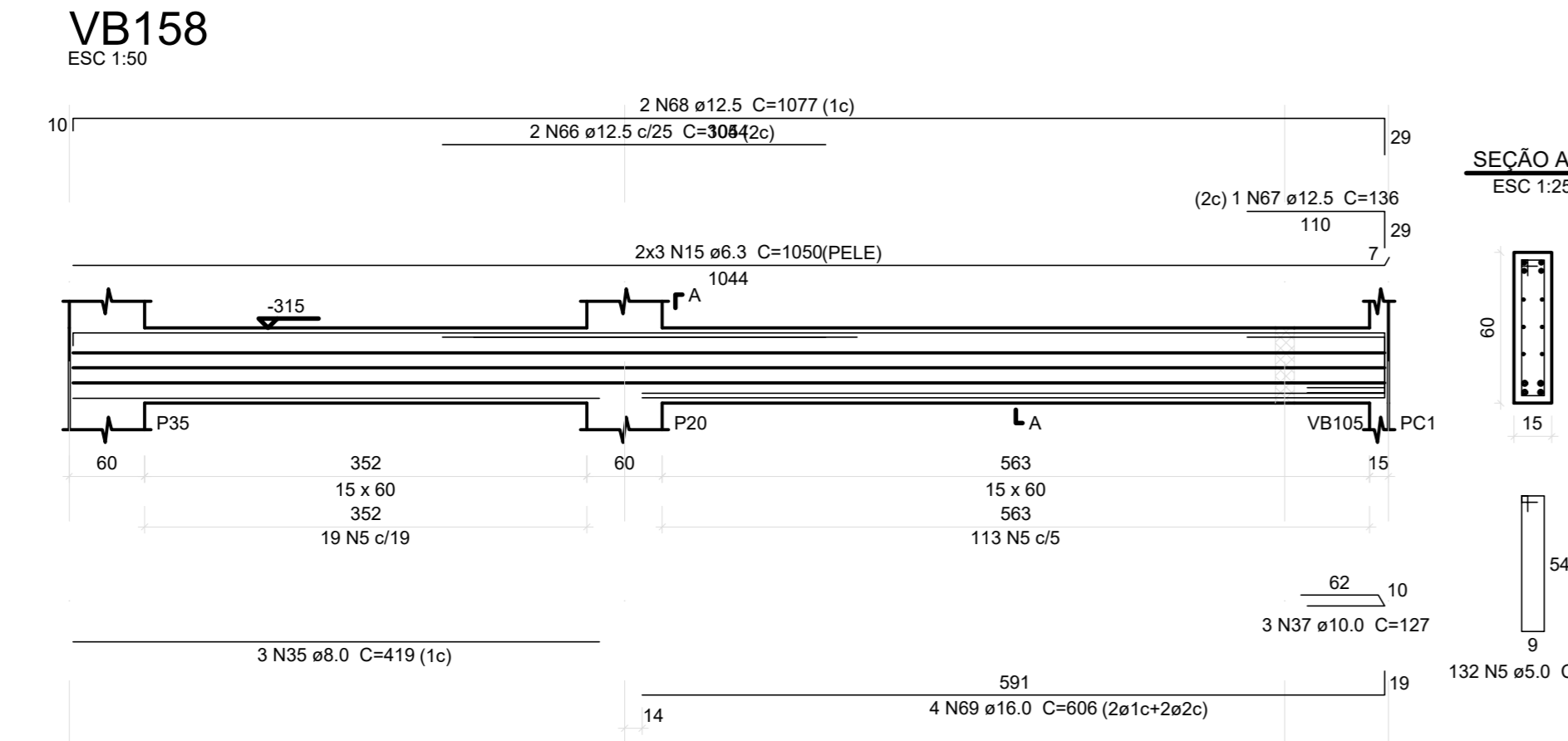
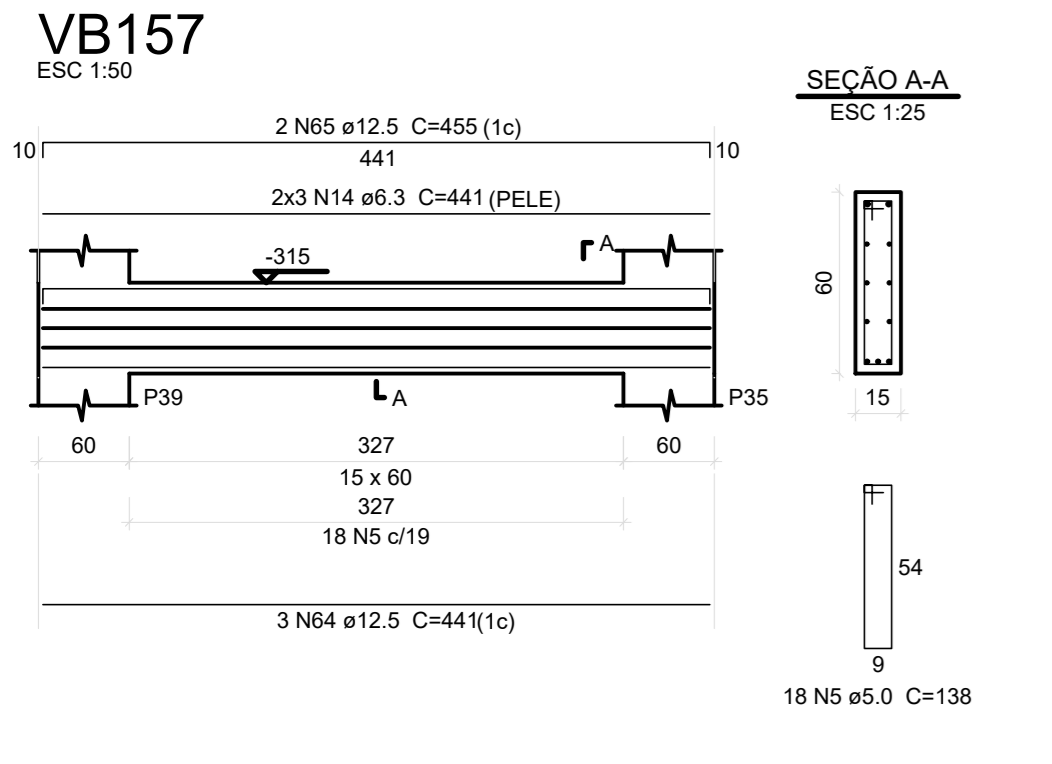
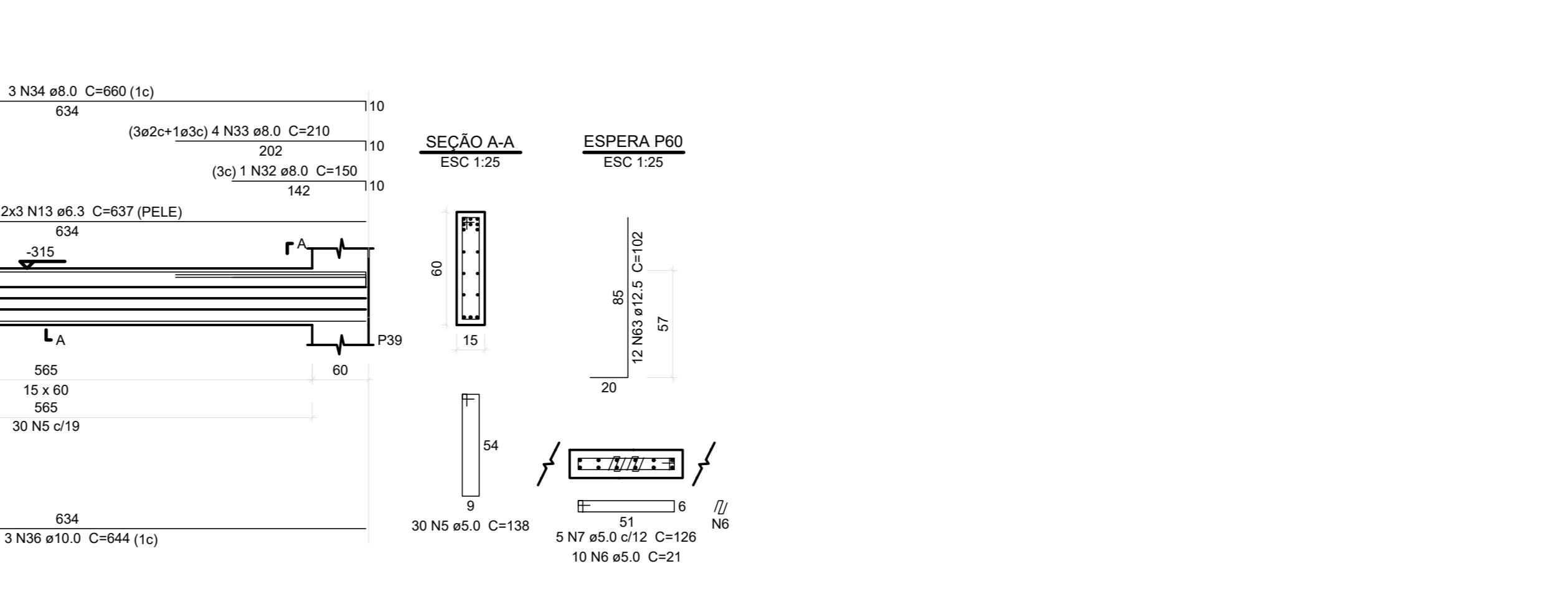
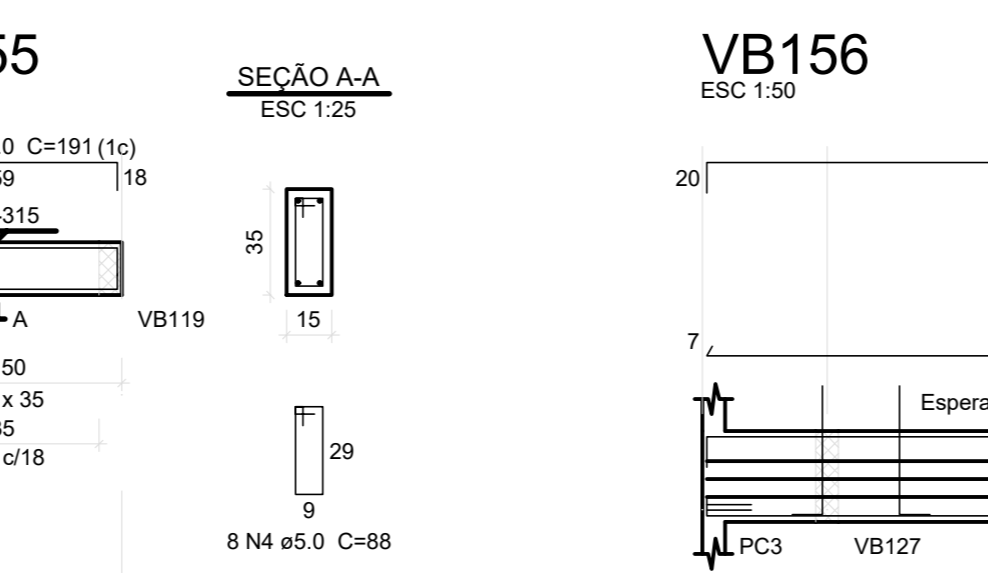
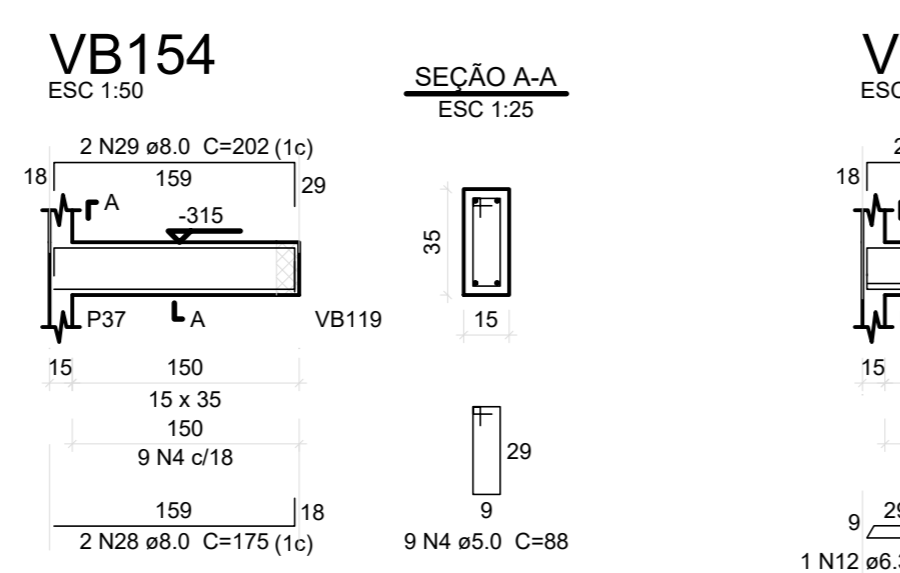
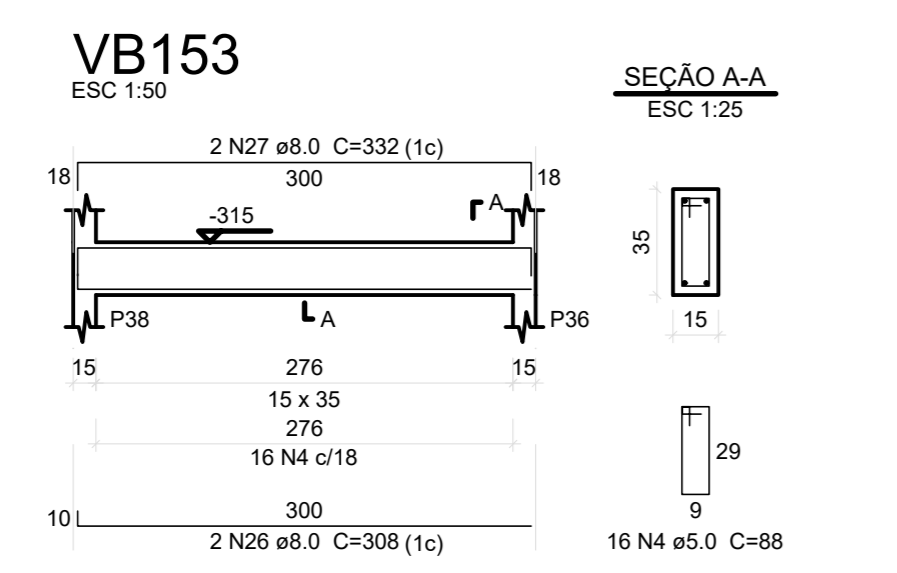
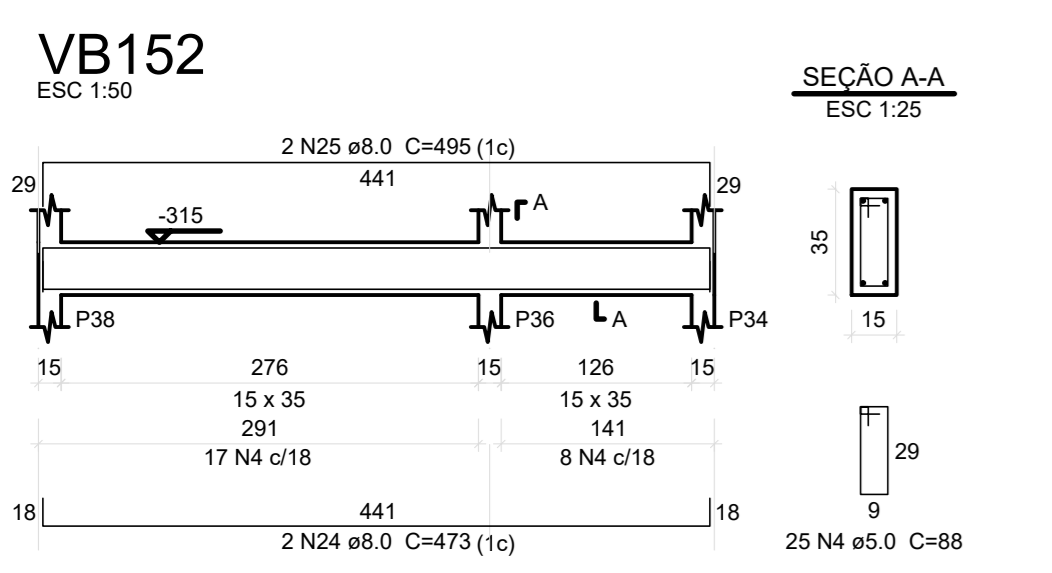
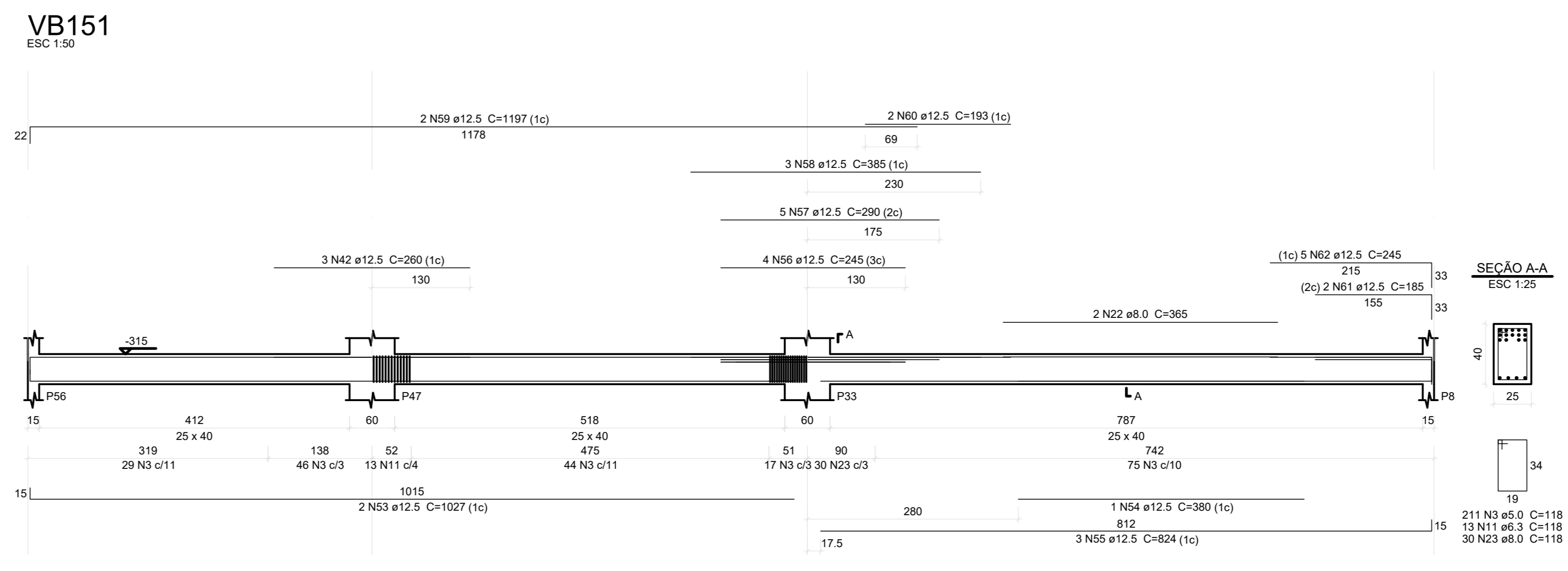
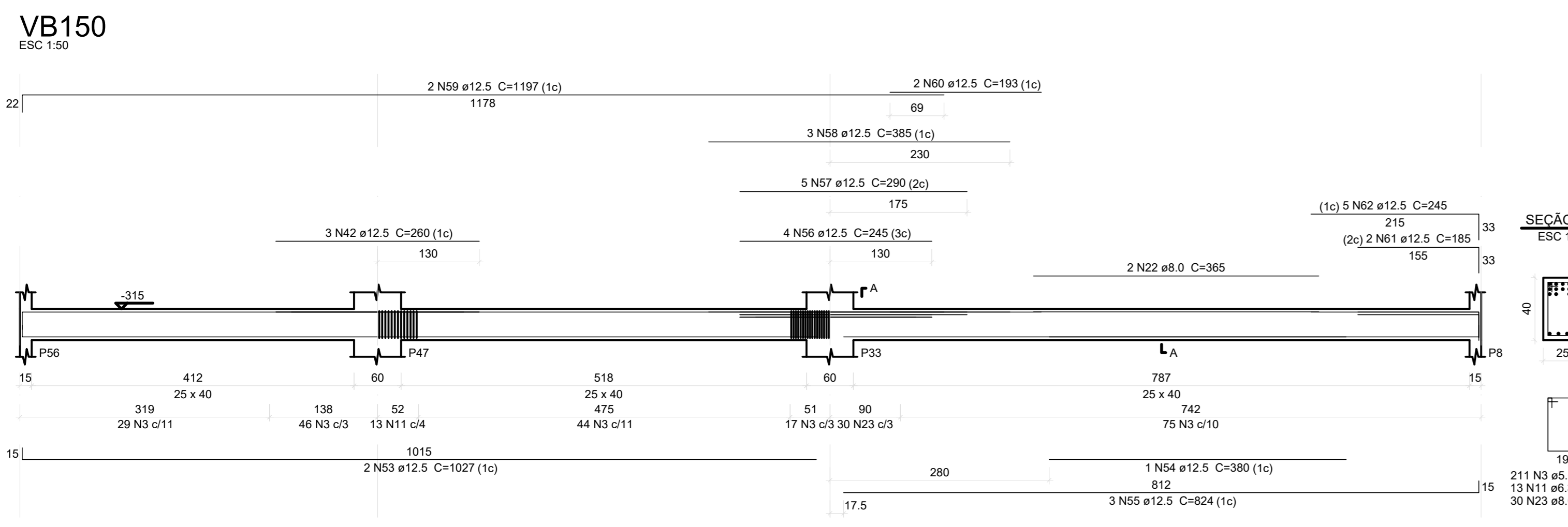
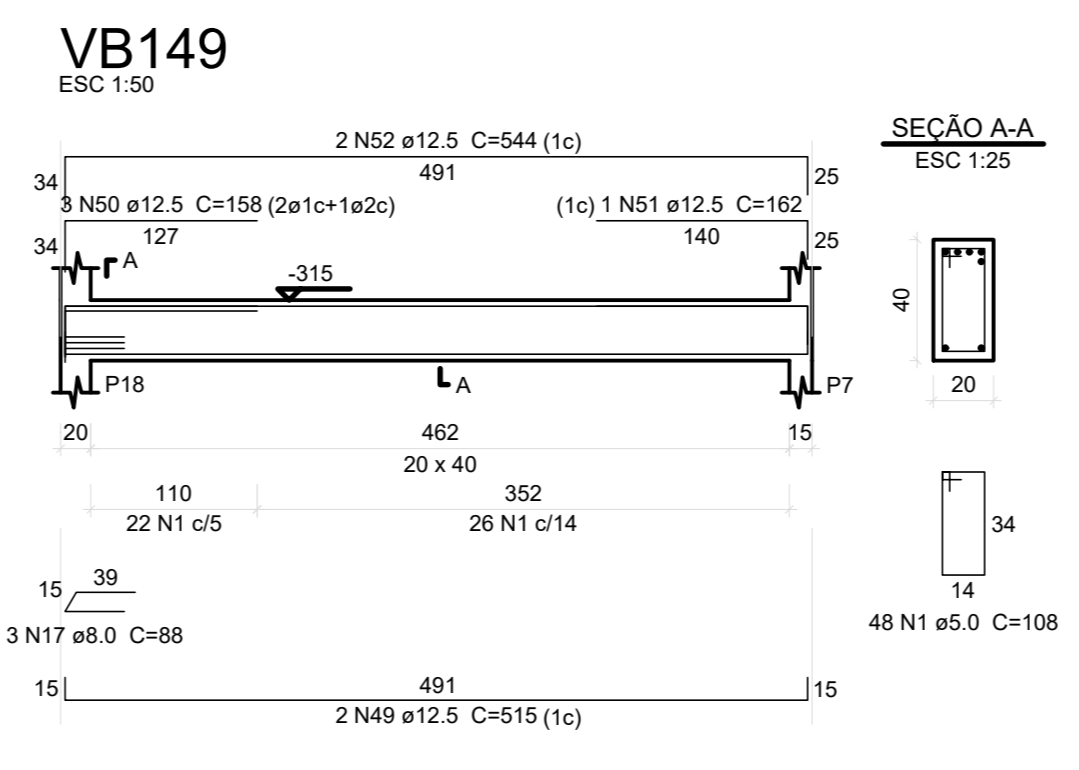
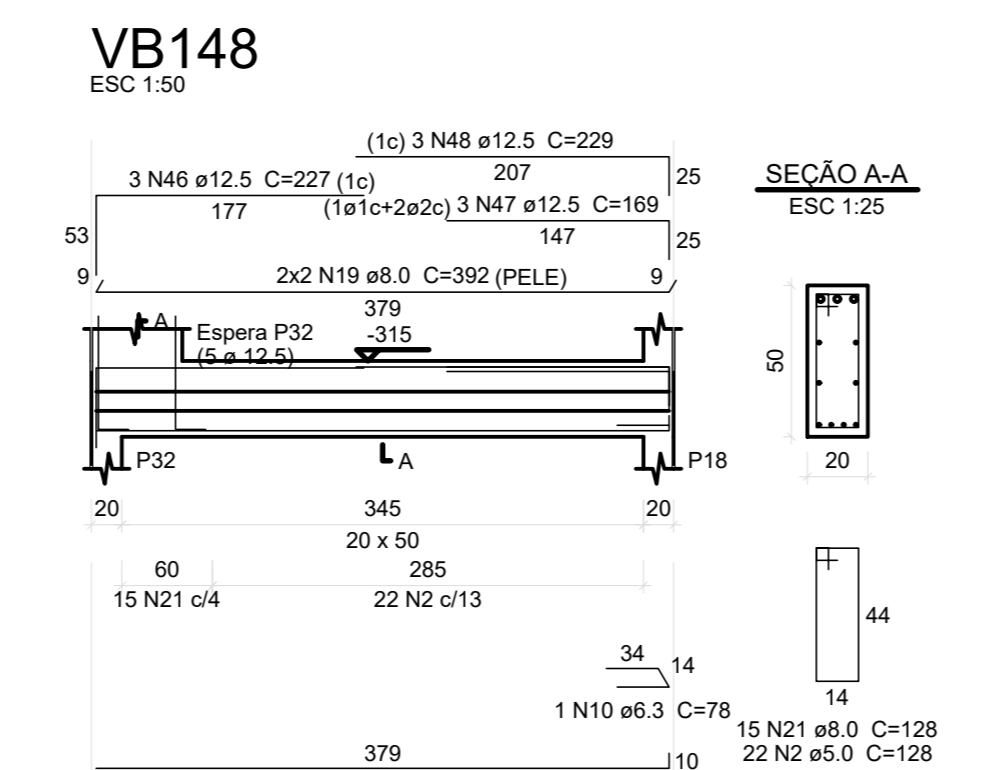
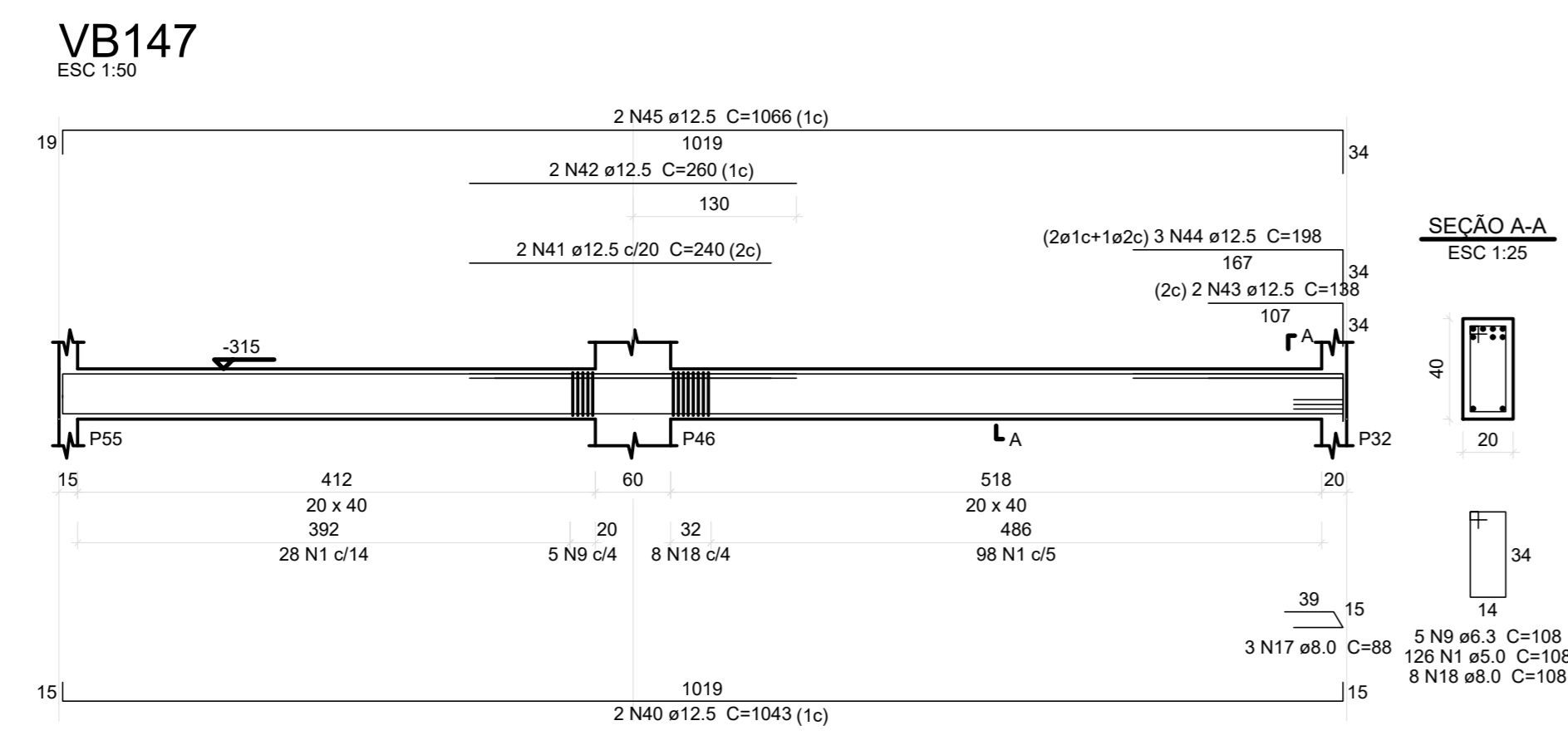
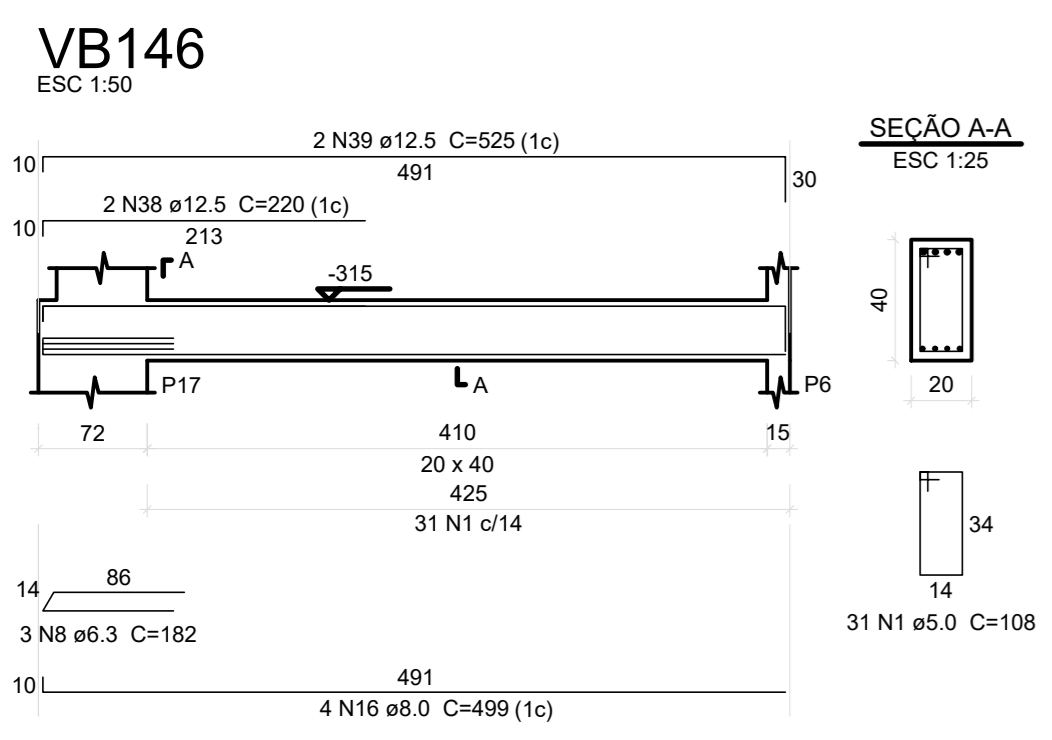
Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO  
AUTOR DO PROJETO CREA: 21.401/D-DF  
RESP. TÉCNICO

PROJETO ESTRUTURAL  
USO - INSTITUCIONAL  
CONCRETO Fck = 40 MPa FATOR A/C < 0.60  
CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
Conteúdo: ARMAÇÃO DAS VIGAS DO PAVIMENTO 1º SUBSOLO (PARTE 02)  
Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

Prancha: ESTRUTURA 3  
27/84



RELAÇÃO DO AÇO - Vigas de 1ª ordem

VB146	VB147	VB148	VB149	VB150	VB151	VB152	VB153	VB154	VB155	VB156	VB157	VB158
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68	68	68	68	68	68	68	68	68	68	68	68	68
69	69	69	69	69	69	69	69	69	69	69	69	69

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO = 10% (kg)
CA50	8.3	171.9	45.3
	8.0	259	112.4
	10.0	23.2	15.7
	12.5	456.6	483.8
	16.0	24.3	42.1
CA60	5.0	1054.4	178.9
CA50		790.2	
CA60		178.9	

Volume de concreto (C=40) = 7.58 m³  
Área de forma = 102.07 m²

Revisões da prancha

Nº	Descrição	Data
-	-	-
-	-	-
-	-	-
-	-	-

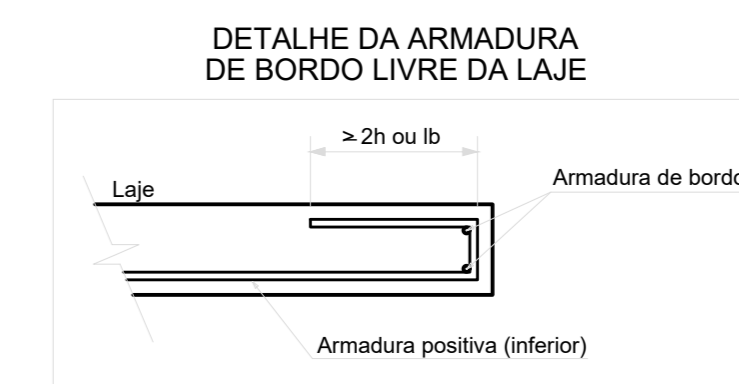
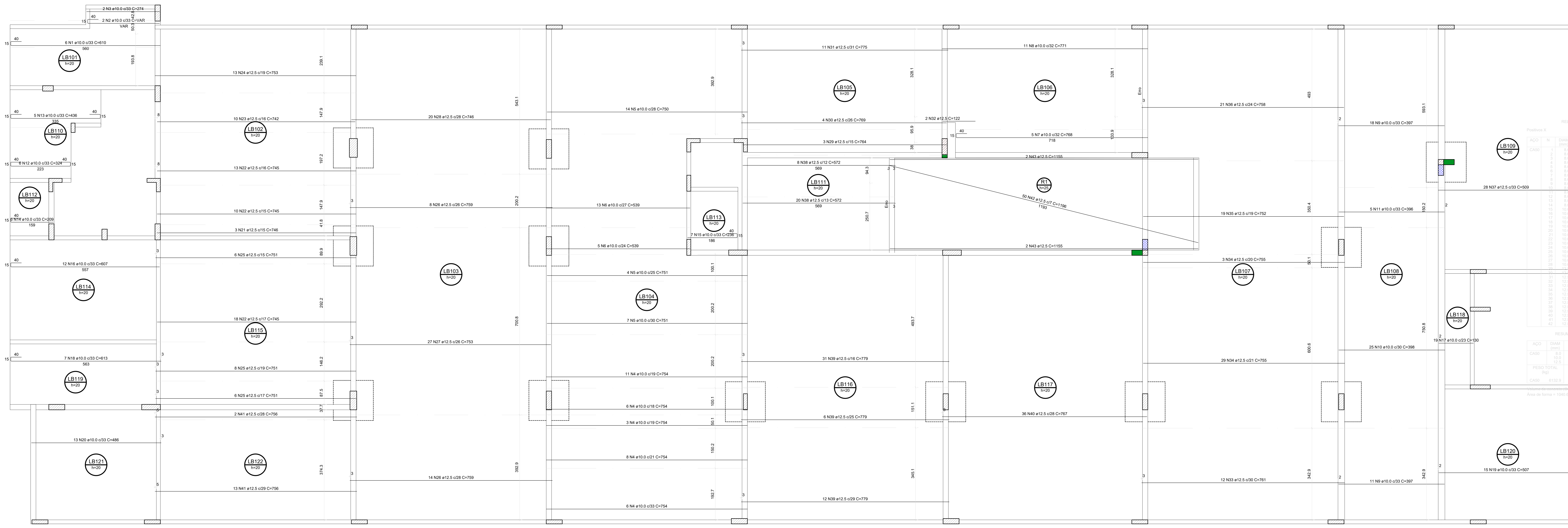
Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
RESP. TÉCNICO \_\_\_\_\_

PROJETO ESTRUTURAL  
USO - INSTITUCIONAL  
CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
Conteúdo: ARMAÇÃO DAS VIGAS DO PAVIMENTO 1º SUBSOLO (PARTE 03)  
Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

Prancha: ESTRUTURA 3  
28/84



RELACÃO DO AÇO

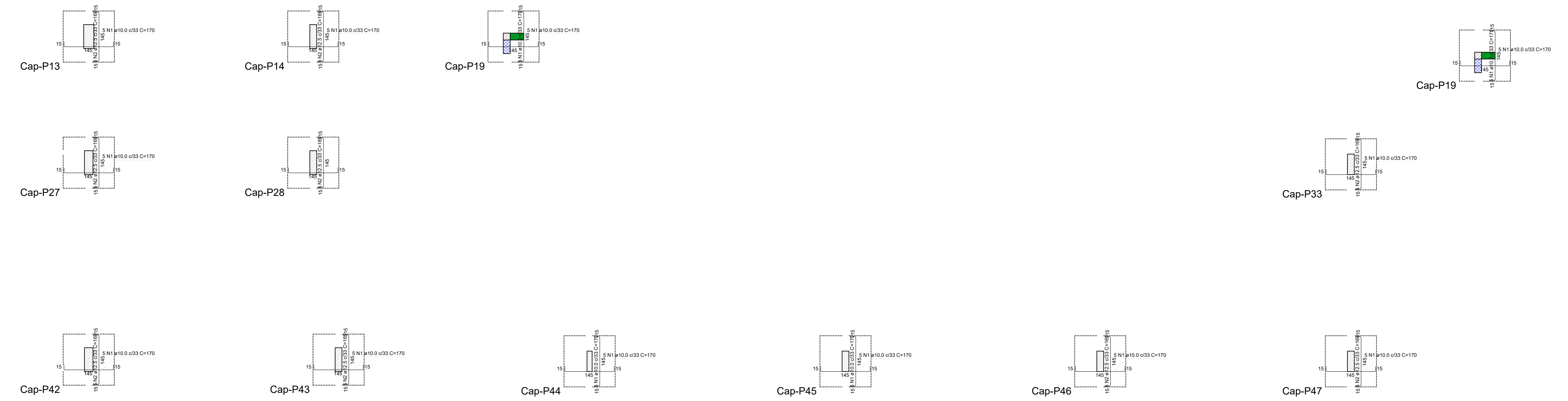
ACAO	N	DIAM	QUANT	C. TOTAL	PESQ. 10%	PESQ. 5%
1	1	10	1	100	1000	1000
2	2	12	1	144	1440	1440
3	3	14	1	196	1960	1960
4	4	16	1	256	2560	2560
5	5	18	1	324	3240	3240
6	6	20	1	400	4000	4000
7	7	22	1	484	4840	4840
8	8	25	1	625	6250	6250
9	9	28	1	784	7840	7840
10	10	32	1	1024	10240	10240
11	11	36	1	1296	12960	12960
12	12	40	1	1600	16000	16000
13	13	45	1	2025	20250	20250
14	14	50	1	2500	25000	25000
15	15	55	1	3025	30250	30250
16	16	60	1	3600	36000	36000
17	17	65	1	4225	42250	42250
18	18	70	1	4900	49000	49000
19	19	75	1	5625	56250	56250
20	20	80	1	6400	64000	64000
21	21	85	1	7225	72250	72250
22	22	90	1	8100	81000	81000
23	23	95	1	9025	90250	90250
24	24	100	1	10000	100000	100000
25	25	105	1	11025	110250	110250
26	26	110	1	12100	121000	121000
27	27	115	1	13225	132250	132250
28	28	120	1	14400	144000	144000
29	29	125	1	15625	156250	156250
30	30	130	1	16900	169000	169000
31	31	135	1	18225	182250	182250
32	32	140	1	19600	196000	196000
33	33	145	1	21025	210250	210250
34	34	150	1	22500	225000	225000
35	35	155	1	24025	240250	240250
36	36	160	1	25600	256000	256000
37	37	165	1	27225	272250	272250
38	38	170	1	28900	289000	289000
39	39	175	1	30625	306250	306250
40	40	180	1	32400	324000	324000
41	41	185	1	34225	342250	342250
42	42	190	1	36100	361000	361000
43	43	195	1	38025	380250	380250
44	44	200	1	40000	400000	400000
45	45	205	1	42025	420250	420250
46	46	210	1	44100	441000	441000
47	47	215	1	46225	462250	462250
48	48	220	1	48400	484000	484000
49	49	225	1	50625	506250	506250
50	50	230	1	52900	529000	529000
51	51	235	1	55225	552250	552250
52	52	240	1	57600	576000	576000
53	53	245	1	60025	600250	600250
54	54	250	1	62500	625000	625000
55	55	255	1	65025	650250	650250
56	56	260	1	67600	676000	676000
57	57	265	1	70225	702250	702250
58	58	270	1	72900	729000	729000
59	59	275	1	75625	756250	756250
60	60	280	1	78400	784000	784000
61	61	285	1	81225	812250	812250
62	62	290	1	84100	841000	841000
63	63	295	1	87025	870250	870250
64	64	300	1	90000	900000	900000
65	65	305	1	93025	930250	930250
66	66	310	1	96100	961000	961000
67	67	315	1	99225	992250	992250
68	68	320	1	102400	1024000	1024000
69	69	325	1	105625	1056250	1056250
70	70	330	1	108900	1089000	1089000
71	71	335	1	112225	1122250	1122250
72	72	340	1	115600	1156000	1156000
73	73	345	1	119025	1190250	1190250
74	74	350	1	122500	1225000	1225000
75	75	355	1	126025	1260250	1260250
76	76	360	1	129600	1296000	1296000
77	77	365	1	133225	1332250	1332250
78	78	370	1	136900	1369000	1369000
79	79	375	1	140625	1406250	1406250
80	80	380	1	144400	1444000	1444000
81	81	385	1	148225	1482250	1482250
82	82	390	1	152100	1521000	1521000
83	83	395	1	156025	1560250	1560250
84	84	400	1	160000	1600000	1600000
85	85	405	1	164025	1640250	1640250
86	86	410	1	168100	1681000	1681000
87	87	415	1	172225	1722250	1722250
88	88	420	1	176400	1764000	1764000
89	89	425	1	180625	1806250	1806250
90	90	430	1	184900	1849000	1849000
91	91	435	1	189225	1892250	1892250
92	92	440	1	193600	1936000	1936000
93	93	445	1	198025	1980250	1980250
94	94	450	1	202500	2025000	2025000
95	95	455	1	207025	2070250	2070250
96	96	460	1	211600	2116000	2116000
97	97	465	1	216225	2162250	2162250
98	98	470	1	220900	2209000	2209000
99	99	475	1	225625	2256250	2256250
100	100	480	1	230400	2304000	2304000

RESUMO DO AÇO

ACAO	DIAM	C. TOTAL	PESQ. 10%	PESQ. 5%
1	10	100	1000	1000
2	12	144	1440	1440
3	14	196	1960	1960
4	16	256	2560	2560
5	18	324	3240	3240
6	20	400	4000	4000
7	22	484	4840	4840
8	25	625	6250	6250
9	28	784	7840	7840
10	32	1024	10240	10240
11	36	1296	12960	12960
12	40	1600	16000	16000
13	45	2025	20250	20250
14	50	2500	25000	25000
15	55	3025	30250	30250
16	60	3600	36000	36000
17	65	4225	42250	42250
18	70	4900	49000	49000
19	75	5625	56250	56250
20	80	6400	64000	64000
21	85	7225	72250	72250
22	90	8100	81000	81000
23	95	9025	90250	90250
24	100	10000	100000	100000
25	105	11025	110250	110250
26	110	12100	121000	121000
27	115	13225	132250	132250
28	120	14400	144000	144000
29	125	15625	156250	156250
30	130	16900	169000	169000
31	135	18225	182250	182250
32	140	19600	196000	196000
33	145	21025	210250	210250
34	150	22500	225000	225000
35	155	24025	240250	240250
36	160	25600	256000	256000
37	165	27225	272250	272250
38	170	28900	289000	289000
39	175	30625	306250	306250
40	180	32400	324000	324000
41	185	34225	342250	342250
42	190	36100	361000	361000
43	195	38025	380250	380250
44	200	40000	400000	400000
45	205	42025	420250	420250
46	210	44100	441000	441000
47	215	46225	462250	462250
48	220	48400	484000	484000
49	225	50625	506250	506250
50	230	52900	529000	529000
51	235	55225	552250	552250
52	240	57600	576000	576000
53	245	60025	600250	600250
54	250	62500	625000	625000
55	255	65025	650250	650250
56	260	67600	676000	676000
57	265	70225	702250	702250
58	270	72900	729000	729000
59	275	75625	756250	756250
60	280	78400	784000	784000
61	285	81225	812250	812250
62	290	84100	841000	841000
63	295	87025	870250	870250
64	300	90000	900000	900000
65	305	93025	930250	930250
66	310	96100	961000	961000
67	315	99225	992250	992250
68	320	102400	1024000	1024000
69	325	105625	1056250	1056250
70	330	108900	1089000	1089000
71	335	112225	1122250	1122250
72	340	115600	1156000	1156000
73	345	119025	1190250	1190250
74	350	122500	1225000	1225000
75	355	126025	1260250	1260250
76	360	129600	1296000	1296000
77	365	133225	1332250	1332250
78	370	136900	1369000	1369000
79	375	140625	1406250	1406250
80	380	144400	1444000	1444000
81	385	148225	1482250	1482250
82	390	152100	1521000	1521000
83	395	156025	1560250	1560250
84	400	160000	1600000	1600000
85	405	164025	1640250	1640250
86	410	168100	1681000	1681000
87	415	172225	1722250	1722250
88	420	176400	1764000	1764000
89	425	180625	1806250	1806250
90	430	184900	1849000	1849000
91	435	189225	1892250	1892250
92	440	193600	1936000	1936000
93	445	198025	1980250	1980250
94	450	202500	2025000	2025000
95	455	207025	2070250	2070250
96	460	211600	2116000	2116000
97	465	216225	2162250	2162250
98	470	220900	2209000	2209000
99	475	225625	2256250	2256250
100	480	230400	2304000	2304000

Área de forma = 10401,00 m²  
Área de concreto = 10401,00 m³

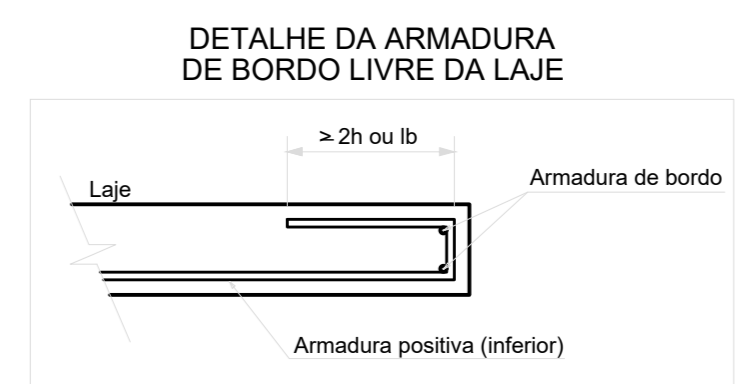
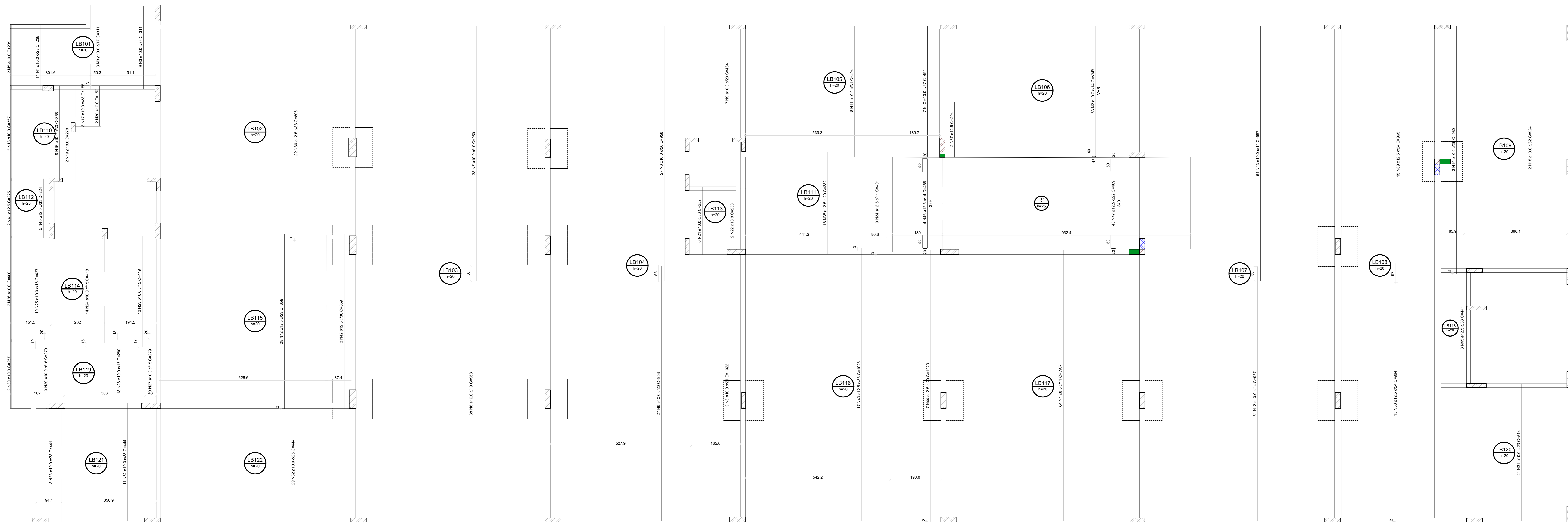
Armação Positiva das Lajes do Pavimento 1º Subsolo (Eixo X)  
escala 1:50



Armação Positiva das Regiões Maciças do Pavimento 1º Subsolo  
escala 1:50

Revisões da prancha

Nº	Descrição
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Armação Positiva das Lajes do Pavimento 1º Subsolo (Eixo Y)  
escala: 1:50

Resumo Y

ACQ	N	QUANT	UNID	VALOR	VALOR	VALOR
ACQ	1	1	m	1,00	1,00	1,00
ACQ	2	1	m	1,00	1,00	1,00
ACQ	3	1	m	1,00	1,00	1,00
ACQ	4	1	m	1,00	1,00	1,00
ACQ	5	1	m	1,00	1,00	1,00
ACQ	6	1	m	1,00	1,00	1,00
ACQ	7	1	m	1,00	1,00	1,00
ACQ	8	1	m	1,00	1,00	1,00
ACQ	9	1	m	1,00	1,00	1,00
ACQ	10	1	m	1,00	1,00	1,00
ACQ	11	1	m	1,00	1,00	1,00
ACQ	12	1	m	1,00	1,00	1,00
ACQ	13	1	m	1,00	1,00	1,00
ACQ	14	1	m	1,00	1,00	1,00
ACQ	15	1	m	1,00	1,00	1,00
ACQ	16	1	m	1,00	1,00	1,00
ACQ	17	1	m	1,00	1,00	1,00
ACQ	18	1	m	1,00	1,00	1,00
ACQ	19	1	m	1,00	1,00	1,00
ACQ	20	1	m	1,00	1,00	1,00
ACQ	21	1	m	1,00	1,00	1,00
ACQ	22	1	m	1,00	1,00	1,00
ACQ	23	1	m	1,00	1,00	1,00
ACQ	24	1	m	1,00	1,00	1,00
ACQ	25	1	m	1,00	1,00	1,00
ACQ	26	1	m	1,00	1,00	1,00
ACQ	27	1	m	1,00	1,00	1,00
ACQ	28	1	m	1,00	1,00	1,00
ACQ	29	1	m	1,00	1,00	1,00
ACQ	30	1	m	1,00	1,00	1,00
ACQ	31	1	m	1,00	1,00	1,00
ACQ	32	1	m	1,00	1,00	1,00
ACQ	33	1	m	1,00	1,00	1,00
ACQ	34	1	m	1,00	1,00	1,00
ACQ	35	1	m	1,00	1,00	1,00
ACQ	36	1	m	1,00	1,00	1,00
ACQ	37	1	m	1,00	1,00	1,00
ACQ	38	1	m	1,00	1,00	1,00
ACQ	39	1	m	1,00	1,00	1,00
ACQ	40	1	m	1,00	1,00	1,00
ACQ	41	1	m	1,00	1,00	1,00
ACQ	42	1	m	1,00	1,00	1,00
ACQ	43	1	m	1,00	1,00	1,00
ACQ	44	1	m	1,00	1,00	1,00
ACQ	45	1	m	1,00	1,00	1,00
ACQ	46	1	m	1,00	1,00	1,00
ACQ	47	1	m	1,00	1,00	1,00
ACQ	48	1	m	1,00	1,00	1,00
ACQ	49	1	m	1,00	1,00	1,00
ACQ	50	1	m	1,00	1,00	1,00
ACQ	51	1	m	1,00	1,00	1,00
ACQ	52	1	m	1,00	1,00	1,00
ACQ	53	1	m	1,00	1,00	1,00
ACQ	54	1	m	1,00	1,00	1,00
ACQ	55	1	m	1,00	1,00	1,00
ACQ	56	1	m	1,00	1,00	1,00
ACQ	57	1	m	1,00	1,00	1,00
ACQ	58	1	m	1,00	1,00	1,00
ACQ	59	1	m	1,00	1,00	1,00
ACQ	60	1	m	1,00	1,00	1,00
ACQ	61	1	m	1,00	1,00	1,00
ACQ	62	1	m	1,00	1,00	1,00
ACQ	63	1	m	1,00	1,00	1,00
ACQ	64	1	m	1,00	1,00	1,00
ACQ	65	1	m	1,00	1,00	1,00
ACQ	66	1	m	1,00	1,00	1,00
ACQ	67	1	m	1,00	1,00	1,00
ACQ	68	1	m	1,00	1,00	1,00
ACQ	69	1	m	1,00	1,00	1,00
ACQ	70	1	m	1,00	1,00	1,00
ACQ	71	1	m	1,00	1,00	1,00
ACQ	72	1	m	1,00	1,00	1,00
ACQ	73	1	m	1,00	1,00	1,00
ACQ	74	1	m	1,00	1,00	1,00
ACQ	75	1	m	1,00	1,00	1,00
ACQ	76	1	m	1,00	1,00	1,00
ACQ	77	1	m	1,00	1,00	1,00
ACQ	78	1	m	1,00	1,00	1,00
ACQ	79	1	m	1,00	1,00	1,00
ACQ	80	1	m	1,00	1,00	1,00
ACQ	81	1	m	1,00	1,00	1,00
ACQ	82	1	m	1,00	1,00	1,00
ACQ	83	1	m	1,00	1,00	1,00
ACQ	84	1	m	1,00	1,00	1,00
ACQ	85	1	m	1,00	1,00	1,00
ACQ	86	1	m	1,00	1,00	1,00
ACQ	87	1	m	1,00	1,00	1,00
ACQ	88	1	m	1,00	1,00	1,00
ACQ	89	1	m	1,00	1,00	1,00
ACQ	90	1	m	1,00	1,00	1,00
ACQ	91	1	m	1,00	1,00	1,00
ACQ	92	1	m	1,00	1,00	1,00
ACQ	93	1	m	1,00	1,00	1,00
ACQ	94	1	m	1,00	1,00	1,00
ACQ	95	1	m	1,00	1,00	1,00
ACQ	96	1	m	1,00	1,00	1,00
ACQ	97	1	m	1,00	1,00	1,00
ACQ	98	1	m	1,00	1,00	1,00
ACQ	99	1	m	1,00	1,00	1,00
ACQ	100	1	m	1,00	1,00	1,00

Revisões da prancha

Nº	Descrição	Data
1	Emissão Inicial	22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

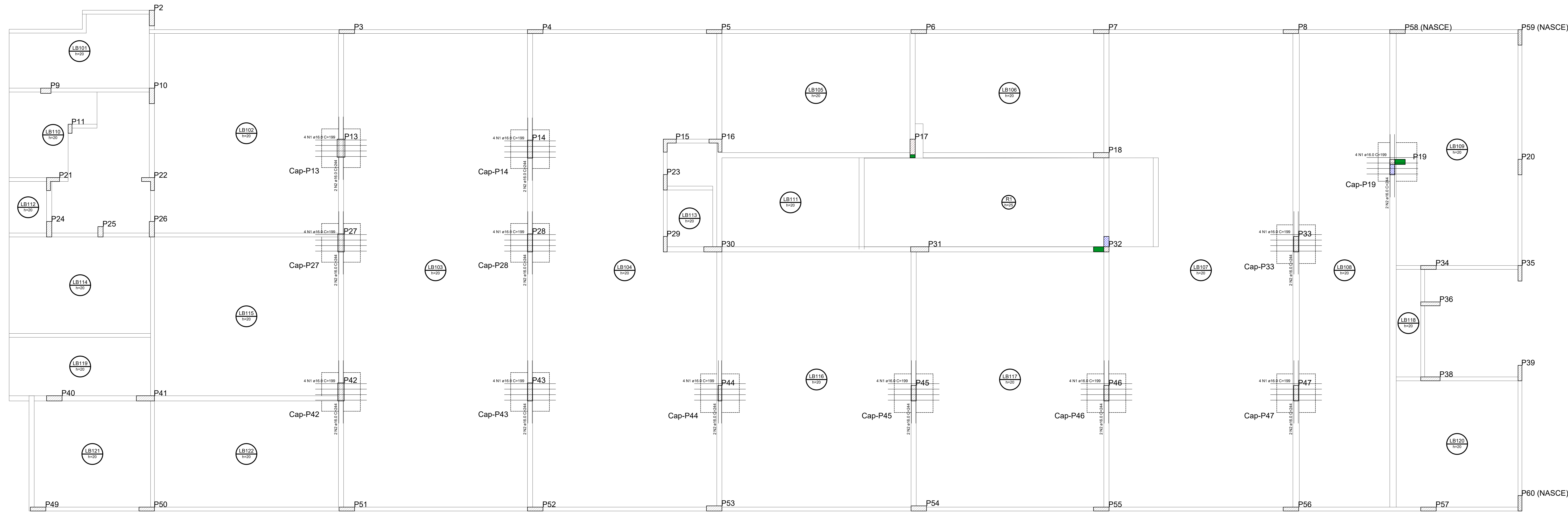
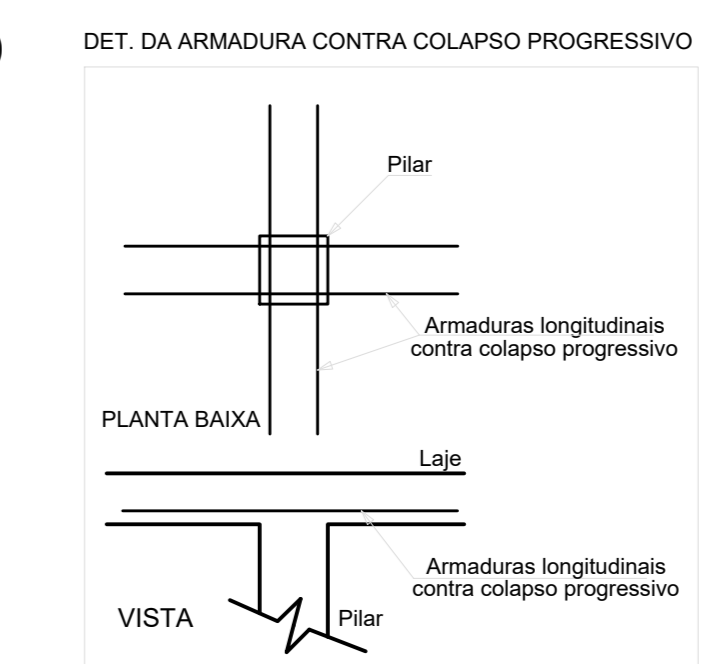






PROJETO	ÁREA	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS
PROJETO	ÁREA	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS

PROJETO	ÁREA	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS
PROJETO	ÁREA	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS	QUANT. DE BARRAS



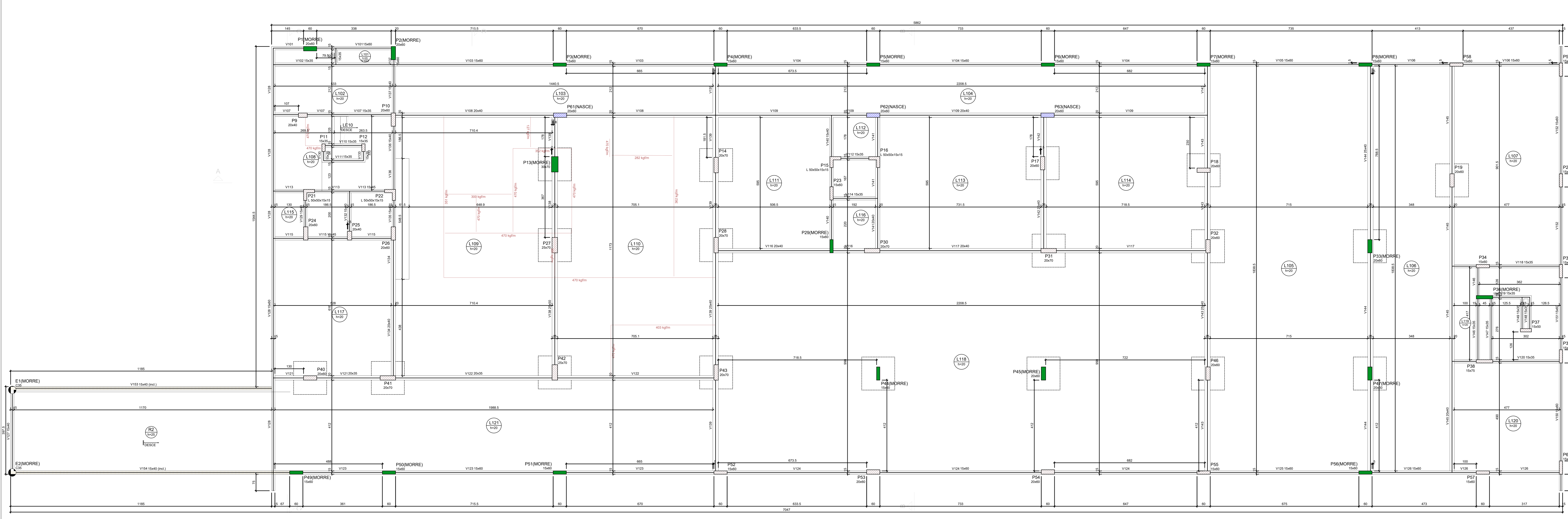
Detalhamento de punção e cisalhamento das lajes do pavimento 1° Subsolo (Nível -315) escala 1:50

Revisões da prancha	Descrição	Data

Emissão Inicial LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO



Compartimentação das áreas			
Área	Área (m²)	Volume (m³)	Altura (m)
Plano	500	500	1,00
Plano	500	500	1,00
Plano	500	500	1,00

Vigas			
Nome	Seção	Comprimento (m)	Volume (m³)
V101	20x40	0,0	0,0
V102	20x40	0,0	0,0
V103	20x40	0,0	0,0
V104	20x40	0,0	0,0
V105	20x40	0,0	0,0
V106	20x40	0,0	0,0
V107	20x40	0,0	0,0
V108	20x40	0,0	0,0
V109	20x40	0,0	0,0
V110	20x40	0,0	0,0
V111	20x40	0,0	0,0
V112	20x40	0,0	0,0
V113	20x40	0,0	0,0
V114	20x40	0,0	0,0
V115	20x40	0,0	0,0
V116	20x40	0,0	0,0
V117	20x40	0,0	0,0
V118	20x40	0,0	0,0
V119	20x40	0,0	0,0
V120	20x40	0,0	0,0
V121	20x40	0,0	0,0
V122	20x40	0,0	0,0
V123	20x40	0,0	0,0
V124	20x40	0,0	0,0
V125	20x40	0,0	0,0
V126	20x40	0,0	0,0

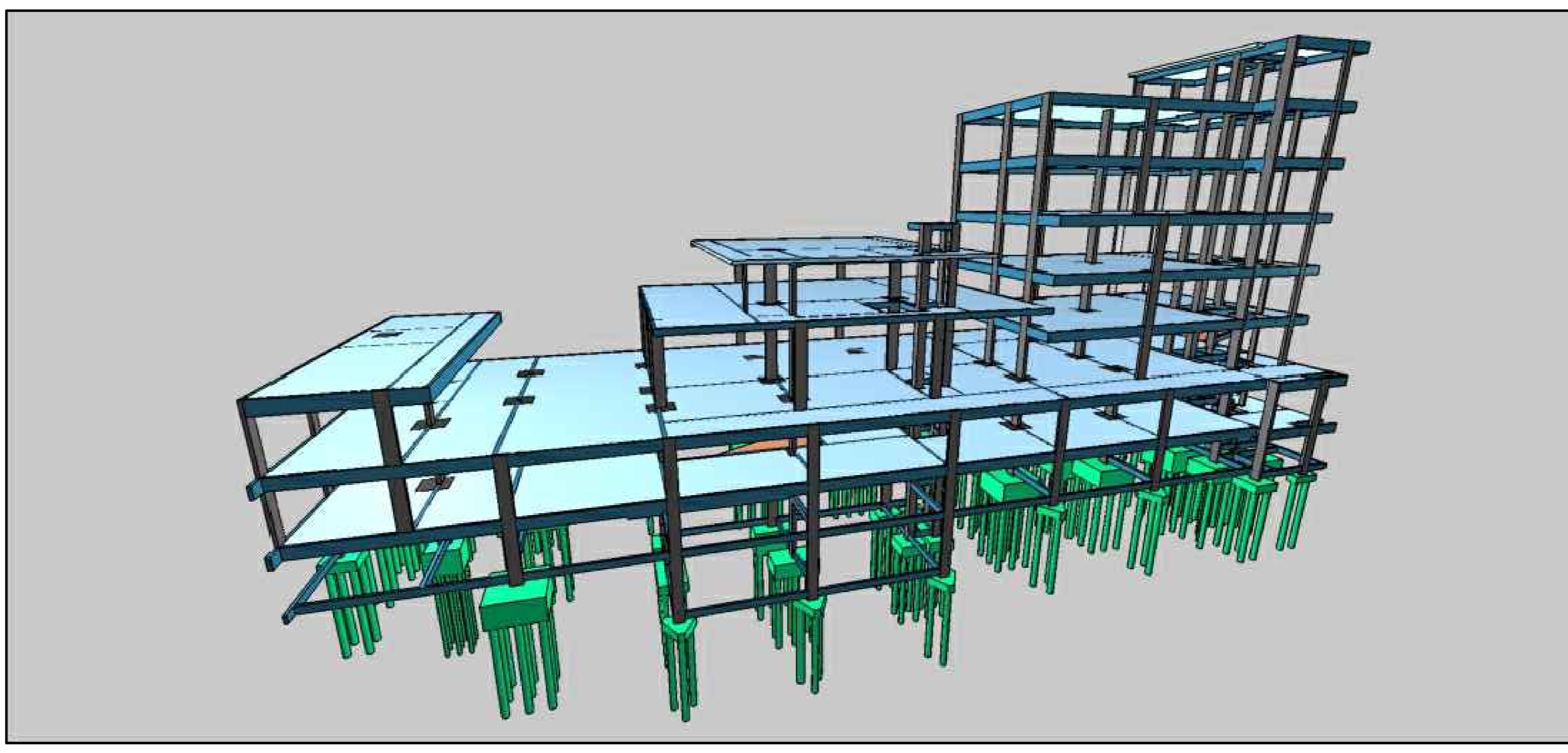
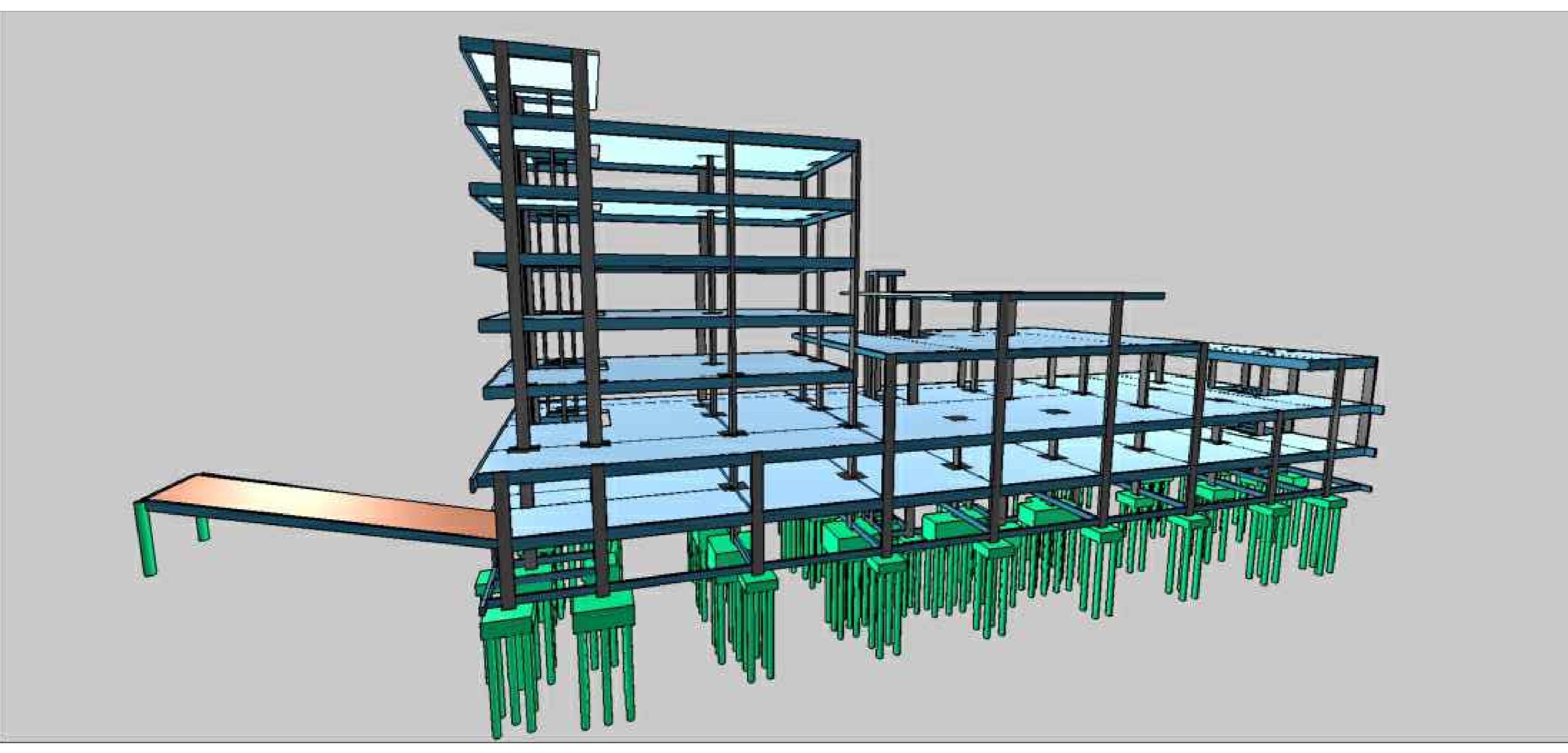
Pilares			
Nome	Seção	Comprimento (m)	Volume (m³)
P1	20x40	0,0	0,0
P2	20x40	0,0	0,0
P3	20x40	0,0	0,0
P4	20x40	0,0	0,0
P5	20x40	0,0	0,0
P6	20x40	0,0	0,0
P7	20x40	0,0	0,0
P8	20x40	0,0	0,0
P9	20x40	0,0	0,0
P10	20x40	0,0	0,0
P11	20x40	0,0	0,0
P12	20x40	0,0	0,0
P13	20x40	0,0	0,0
P14	20x40	0,0	0,0
P15	20x40	0,0	0,0
P16	20x40	0,0	0,0
P17	20x40	0,0	0,0
P18	20x40	0,0	0,0
P19	20x40	0,0	0,0
P20	20x40	0,0	0,0
P21	20x40	0,0	0,0
P22	20x40	0,0	0,0
P23	20x40	0,0	0,0
P24	20x40	0,0	0,0
P25	20x40	0,0	0,0
P26	20x40	0,0	0,0
P27	20x40	0,0	0,0
P28	20x40	0,0	0,0
P29	20x40	0,0	0,0
P30	20x40	0,0	0,0
P31	20x40	0,0	0,0
P32	20x40	0,0	0,0
P33	20x40	0,0	0,0
P34	20x40	0,0	0,0
P35	20x40	0,0	0,0
P36	20x40	0,0	0,0
P37	20x40	0,0	0,0
P38	20x40	0,0	0,0
P39	20x40	0,0	0,0
P40	20x40	0,0	0,0
P41	20x40	0,0	0,0
P42	20x40	0,0	0,0
P43	20x40	0,0	0,0
P44	20x40	0,0	0,0
P45	20x40	0,0	0,0
P46	20x40	0,0	0,0
P47	20x40	0,0	0,0
P48	20x40	0,0	0,0
P49	20x40	0,0	0,0
P50	20x40	0,0	0,0
P51	20x40	0,0	0,0
P52	20x40	0,0	0,0
P53	20x40	0,0	0,0
P54	20x40	0,0	0,0
P55	20x40	0,0	0,0
P56	20x40	0,0	0,0

Legenda dos materiais			
	Pilar que morre		
	Pilar que passa		
	Pilar que nasce		
	Limite das vigas e paredes		
	Viga		
	Viga inclinada		

Lajes			
Nome	Tipo	Área (m²)	Volume (m³)
L101	Mescla	20	0,0
L102	Mescla	20	0,0
L103	Mescla	20	0,0
L104	Mescla	20	0,0
L105	Mescla	20	0,0
L106	Mescla	20	0,0
L107	Mescla	20	0,0
L108	Mescla	20	0,0
L109	Mescla	20	0,0
L110	Mescla	20	0,0
L111	Mescla	20	0,0
L112	Mescla	20	0,0
L113	Mescla	20	0,0
L114	Mescla	20	0,0
L115	Mescla	20	0,0
L116	Mescla	20	0,0
L117	Mescla	20	0,0
L118	Mescla	20	0,0
L119	Mescla	20	0,0
L120	Mescla	20	0,0
L121	Mescla	20	0,0
L122	Mescla	20	0,0
L123	Mescla	20	0,0
L124	Mescla	20	0,0
L125	Mescla	20	0,0
L126	Mescla	20	0,0
L127	Mescla	20	0,0
L128	Mescla	20	0,0
L129	Mescla	20	0,0
L130	Mescla	20	0,0

Forma do Pavimento 1º Pav. (Nível 0)

escala 1:50

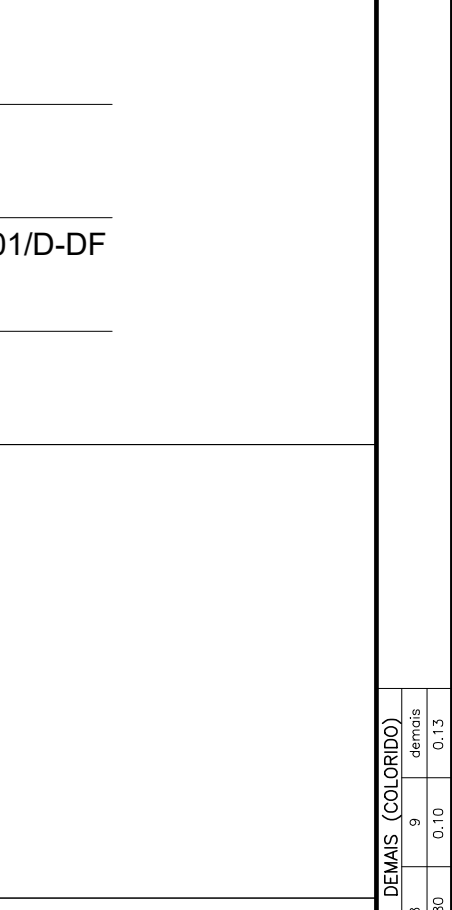
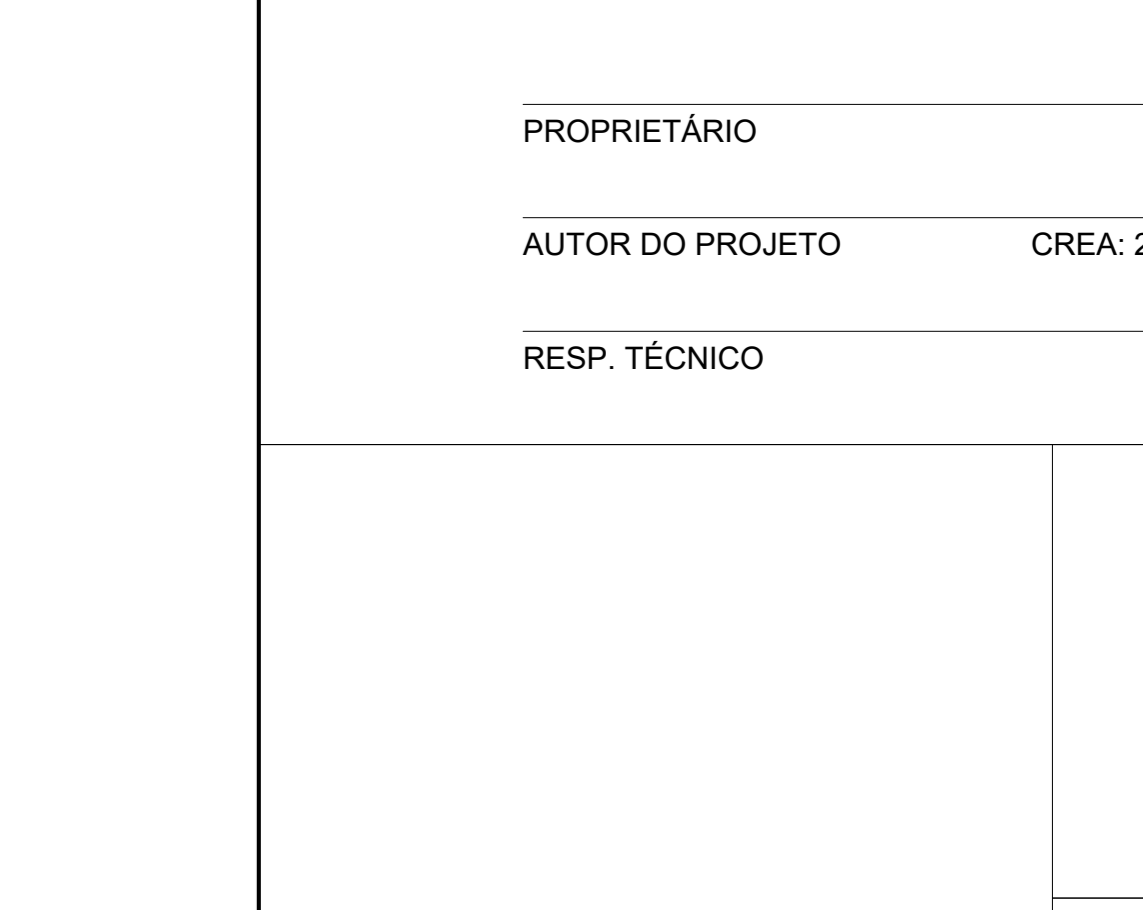
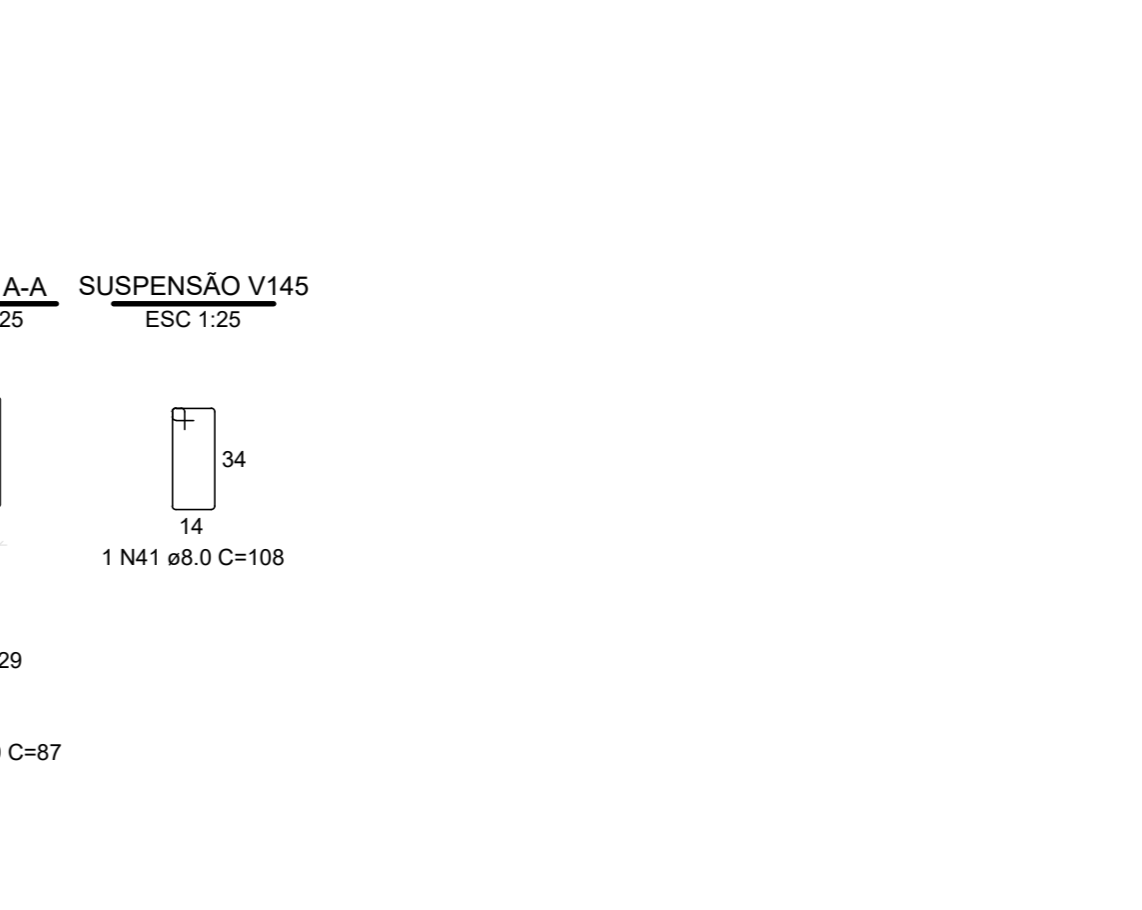
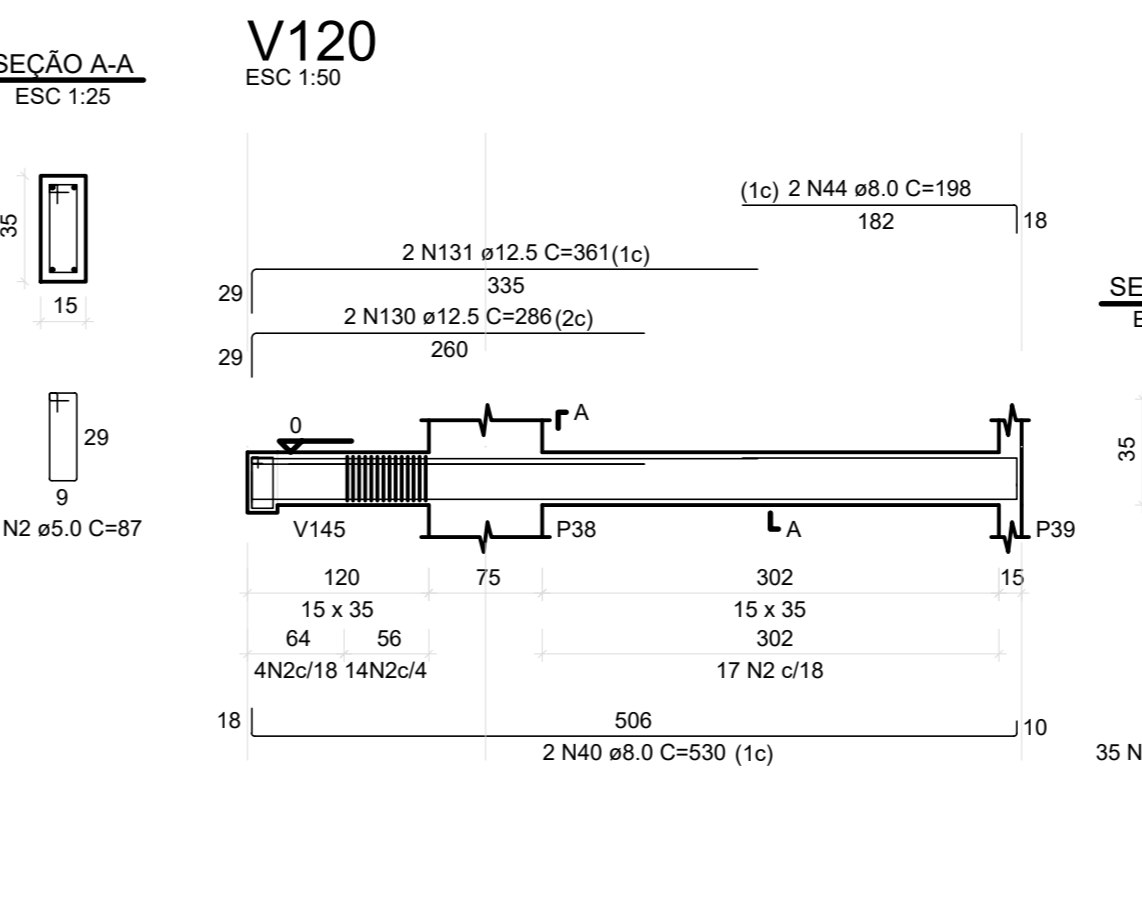
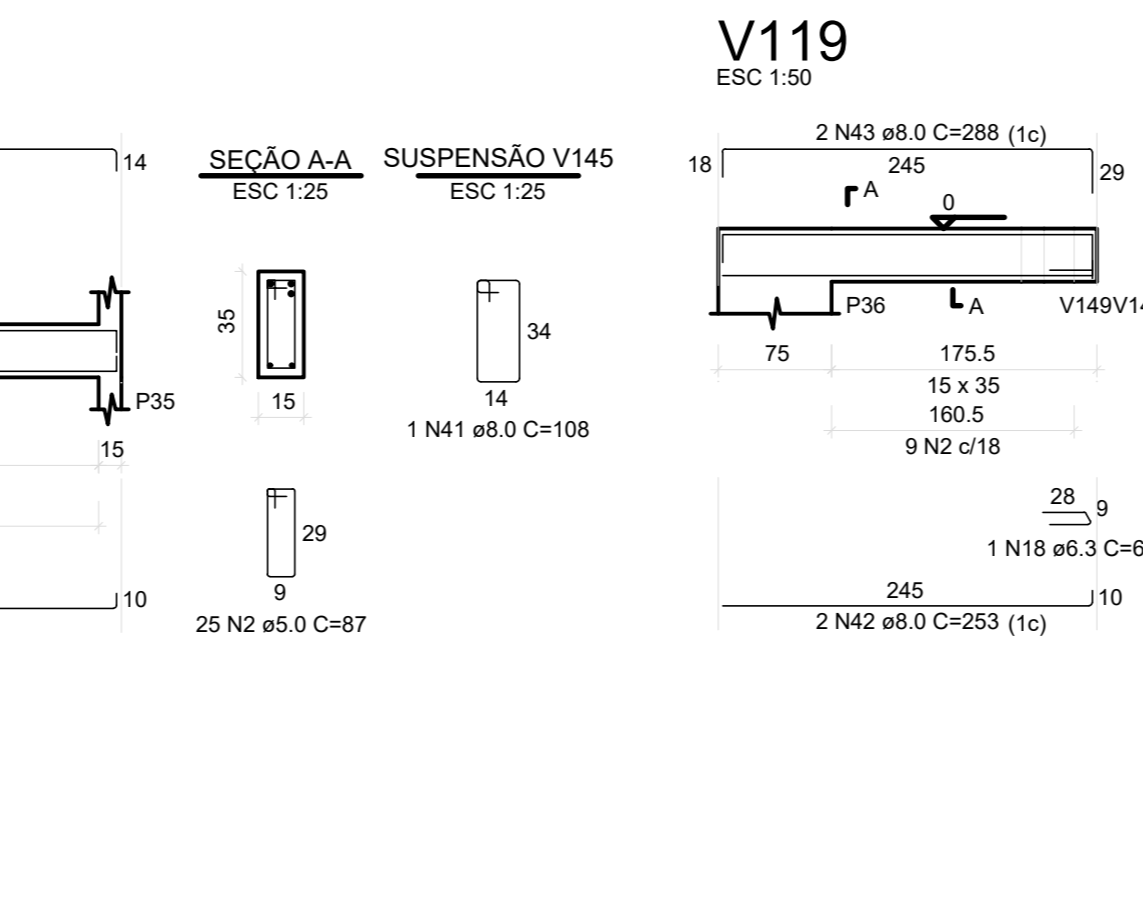
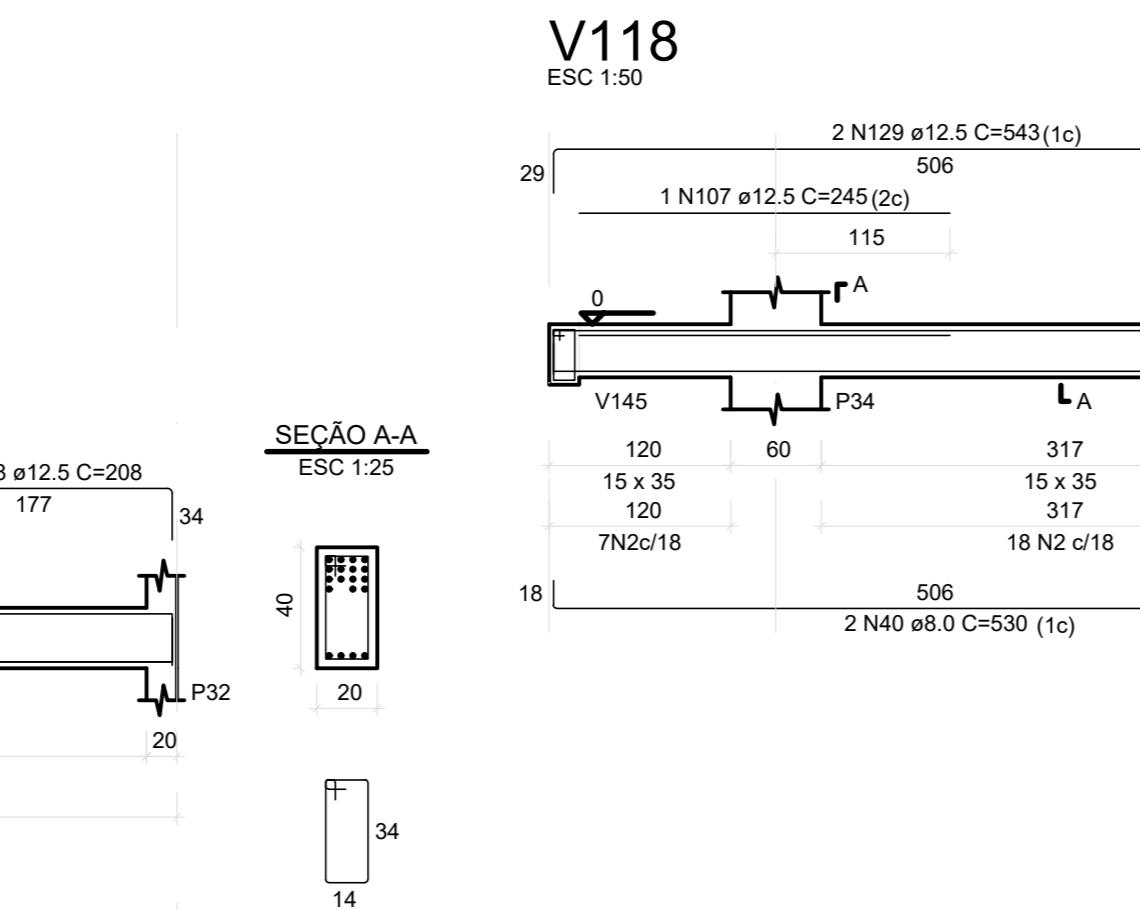
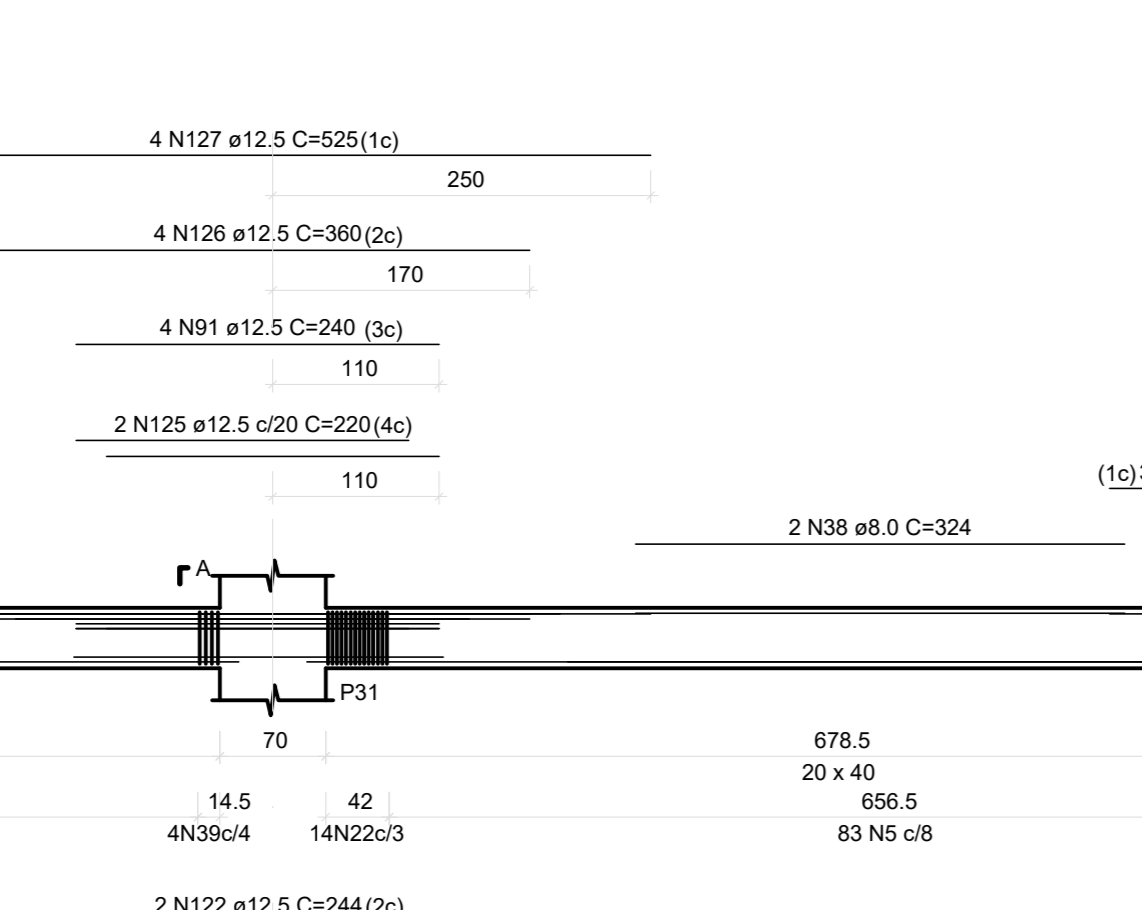
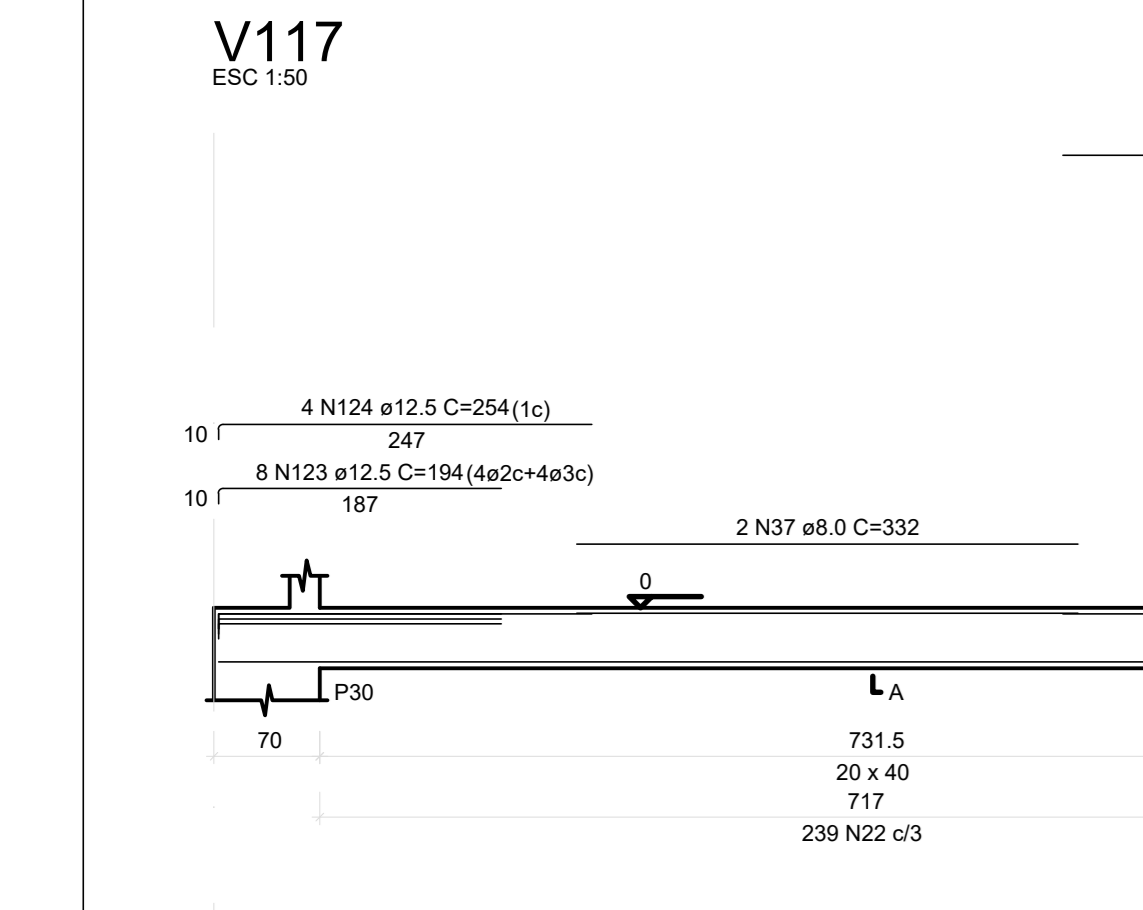
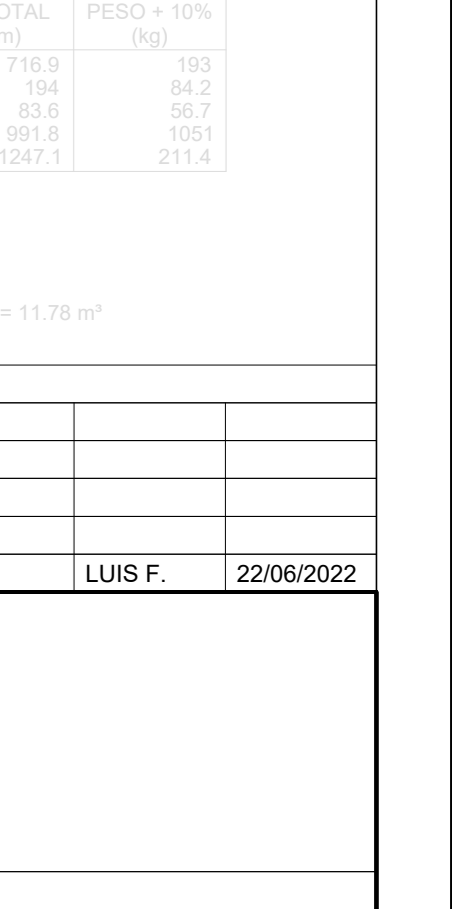
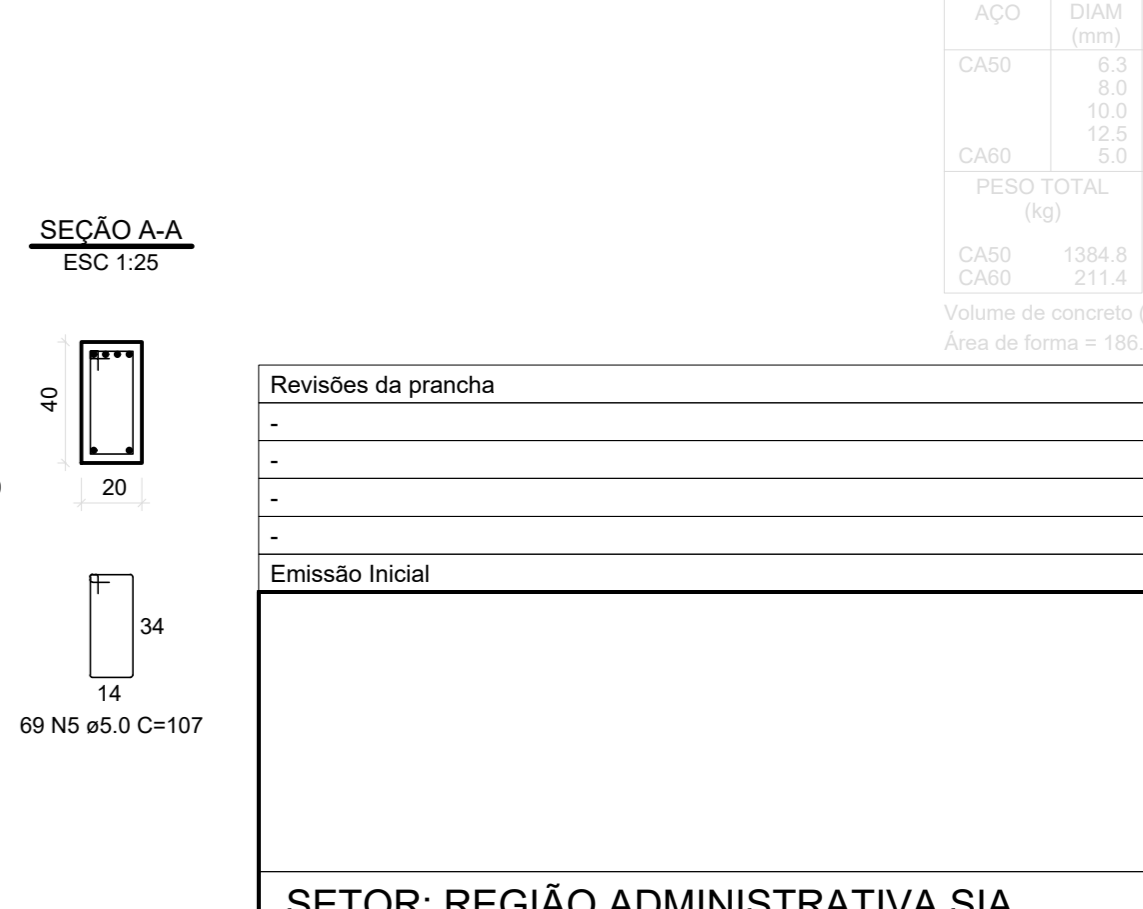
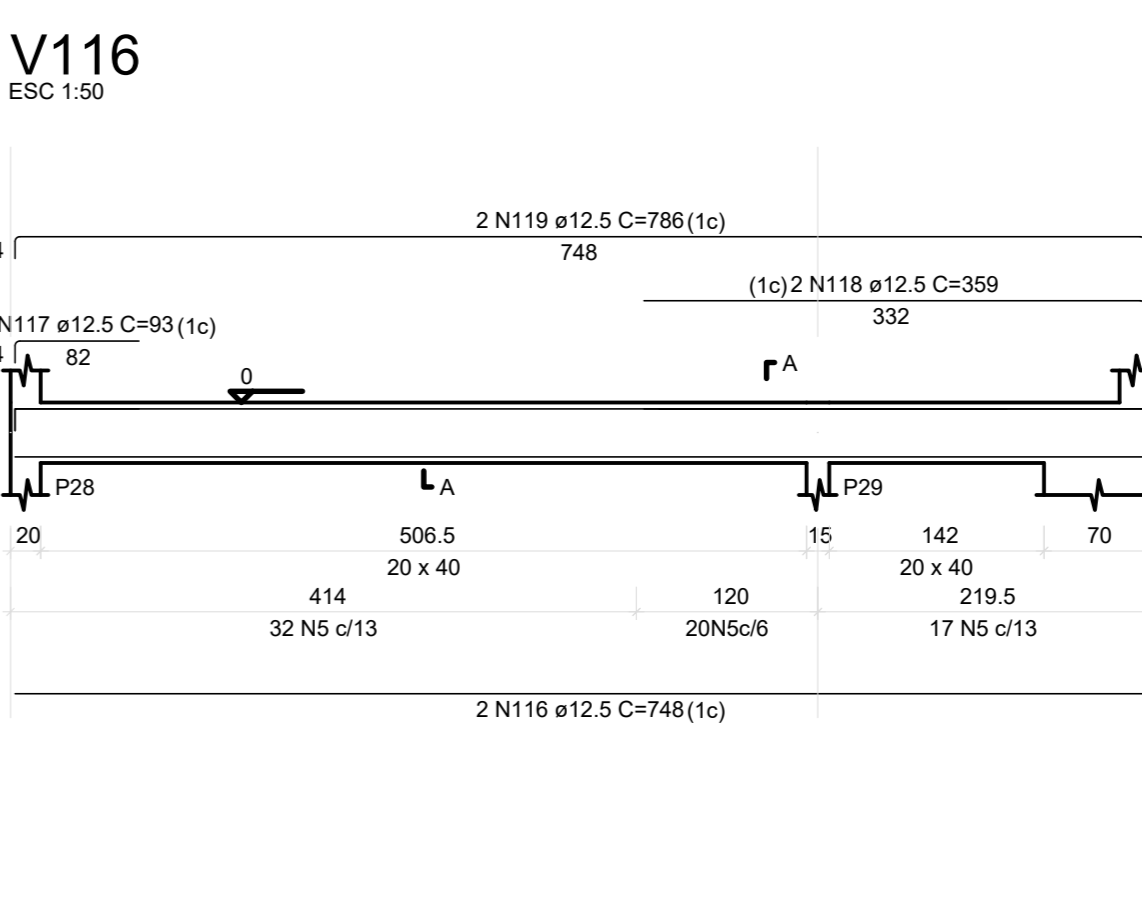
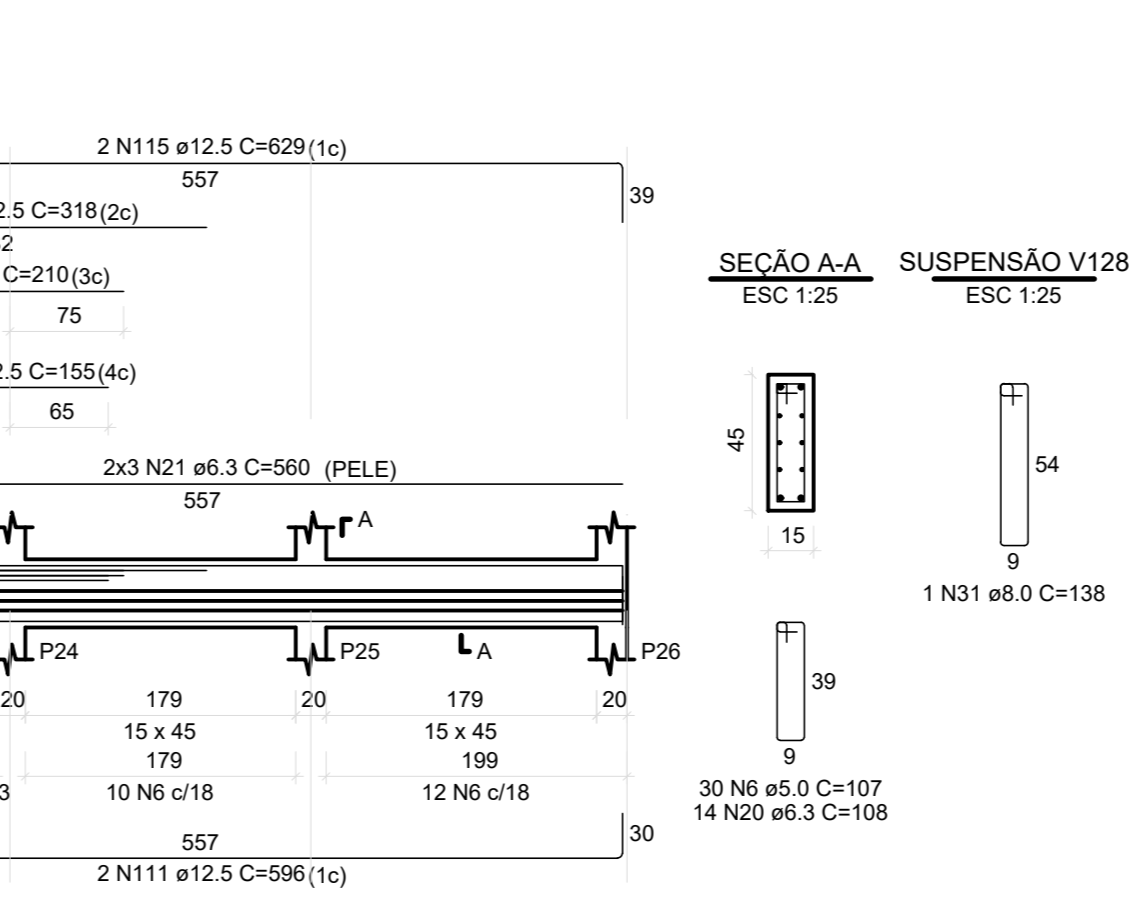
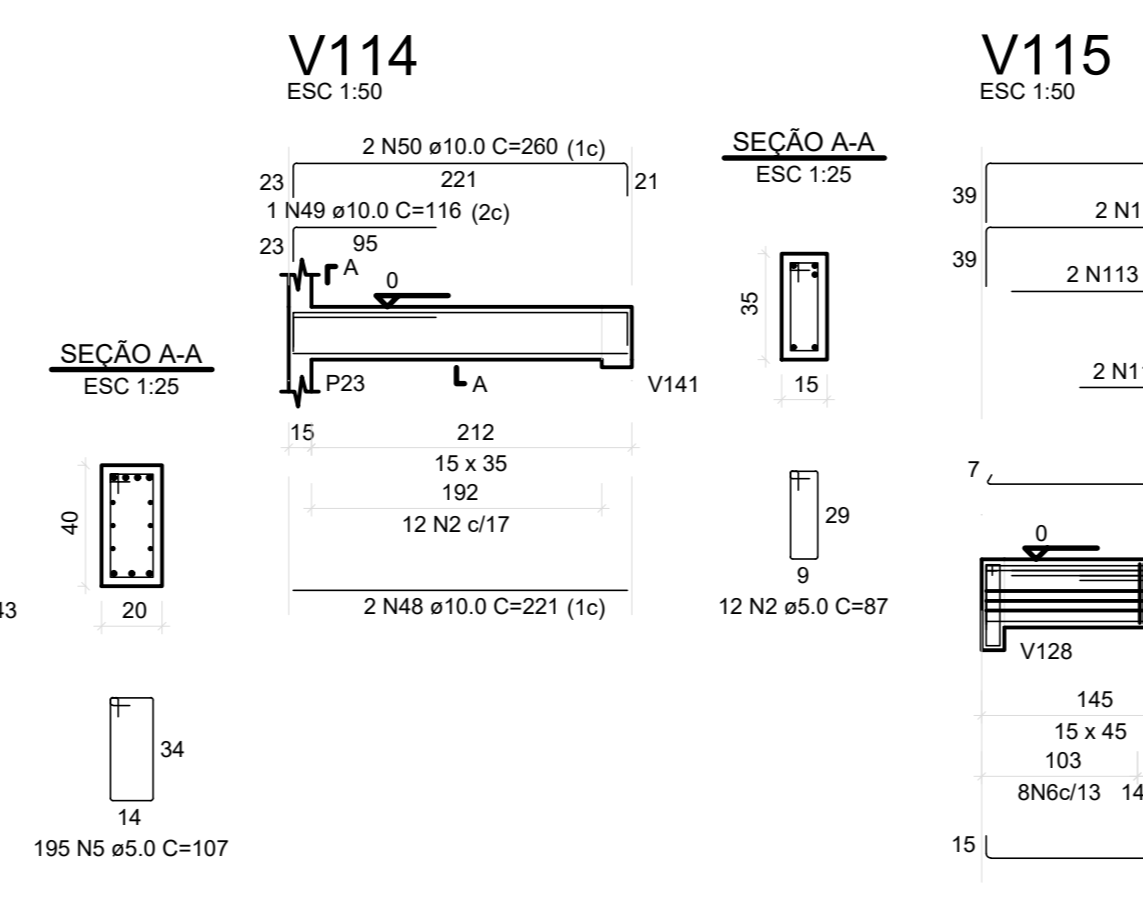
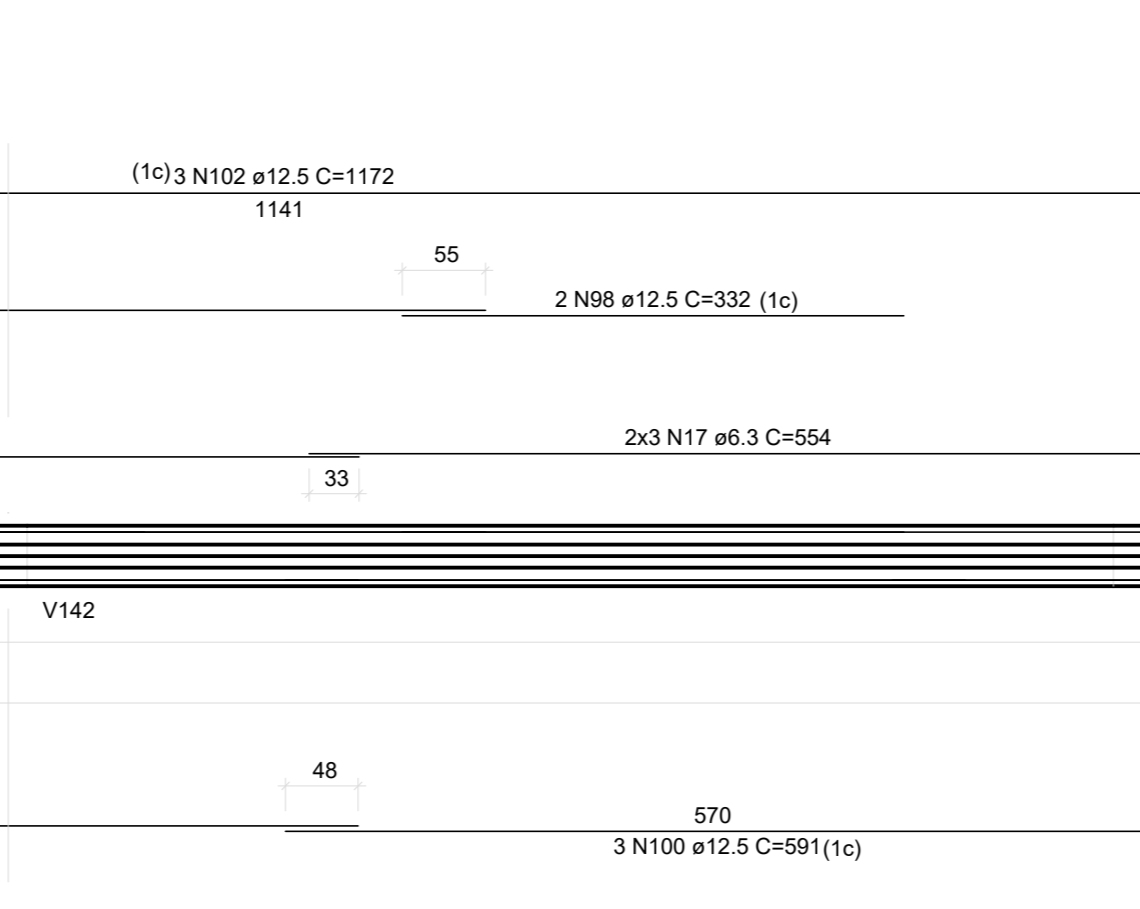
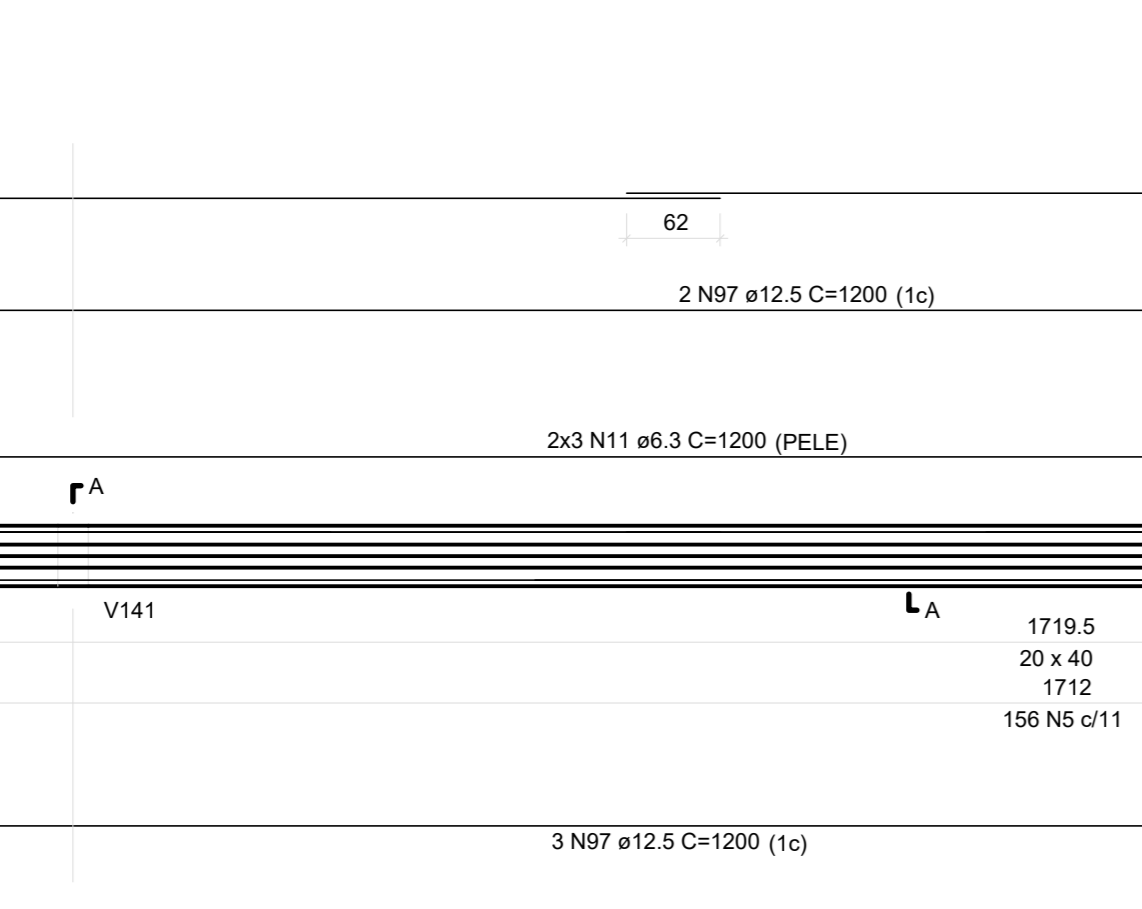
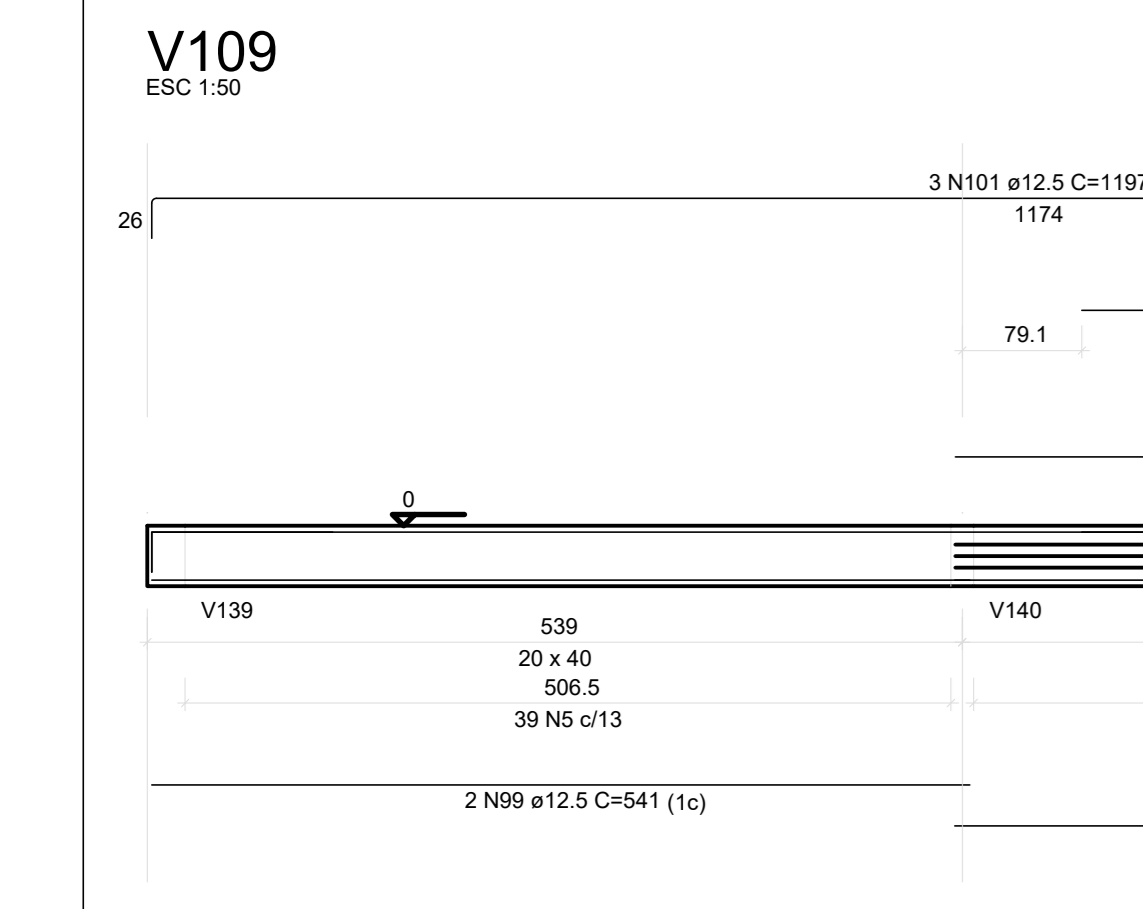
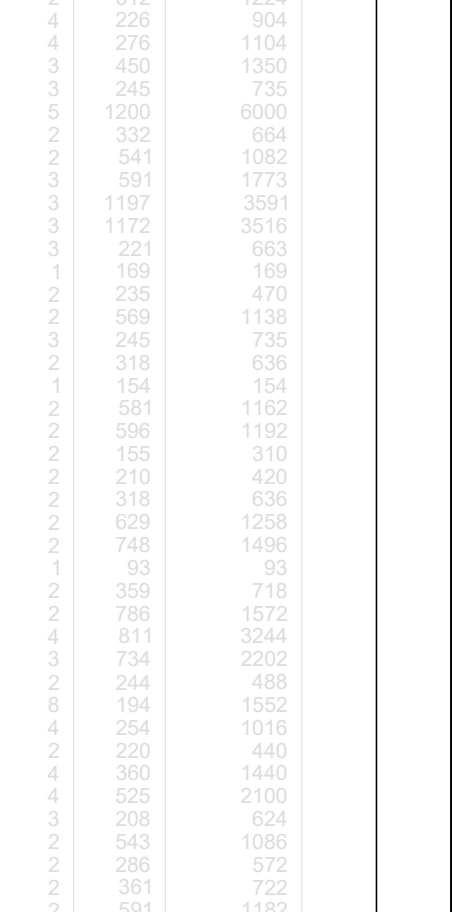
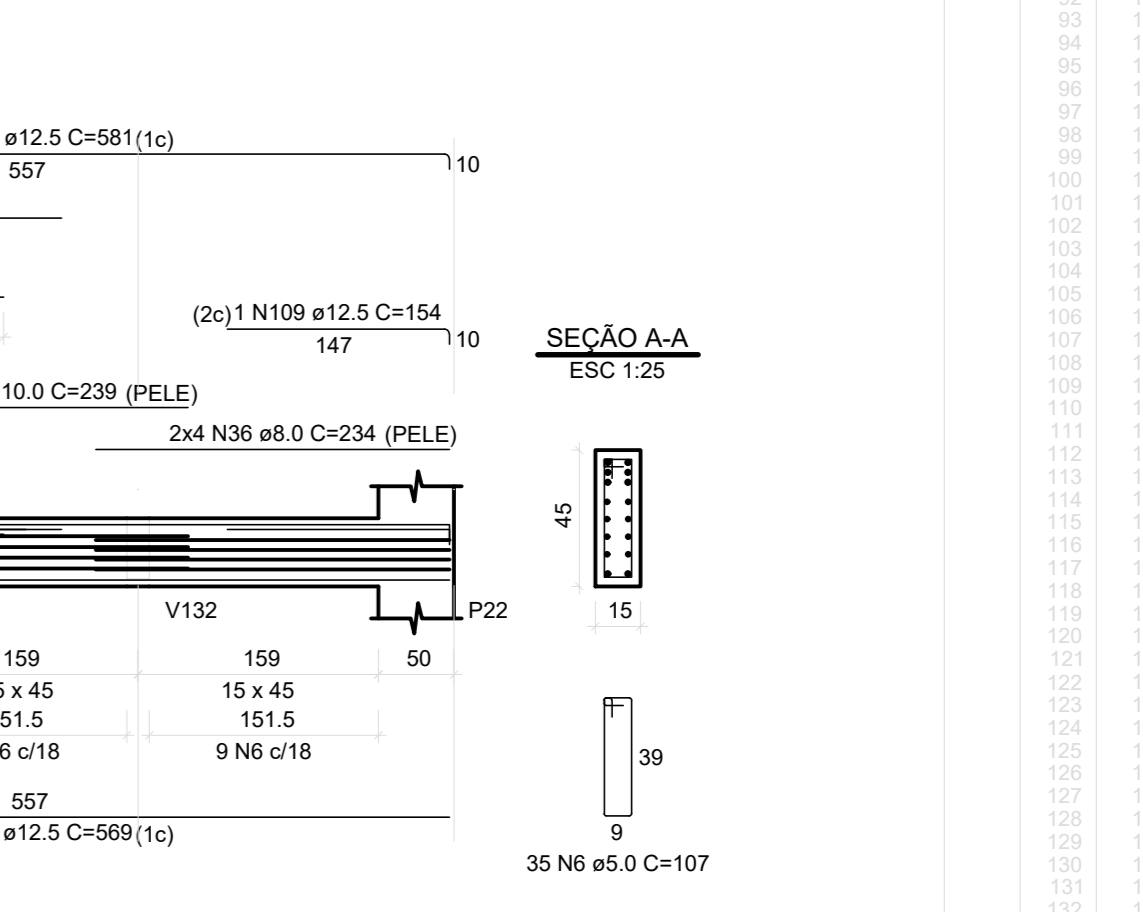
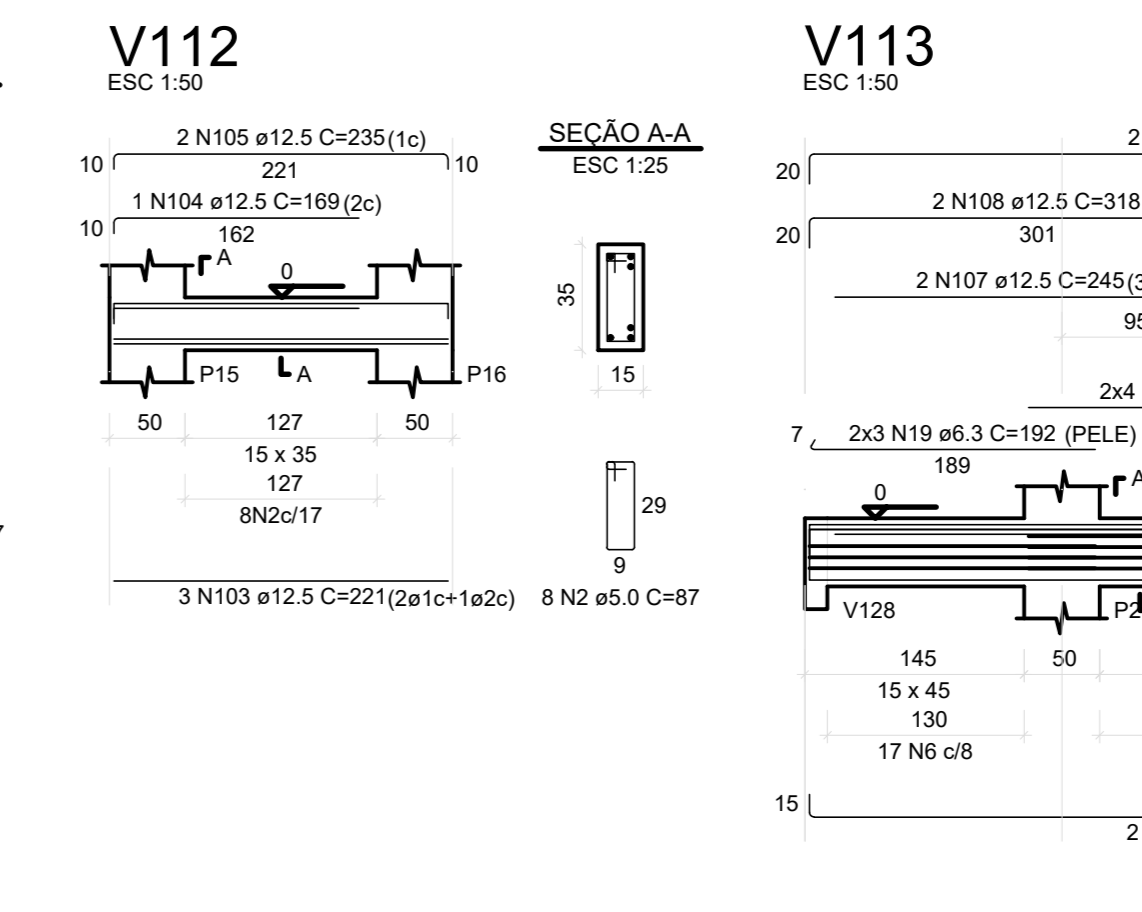
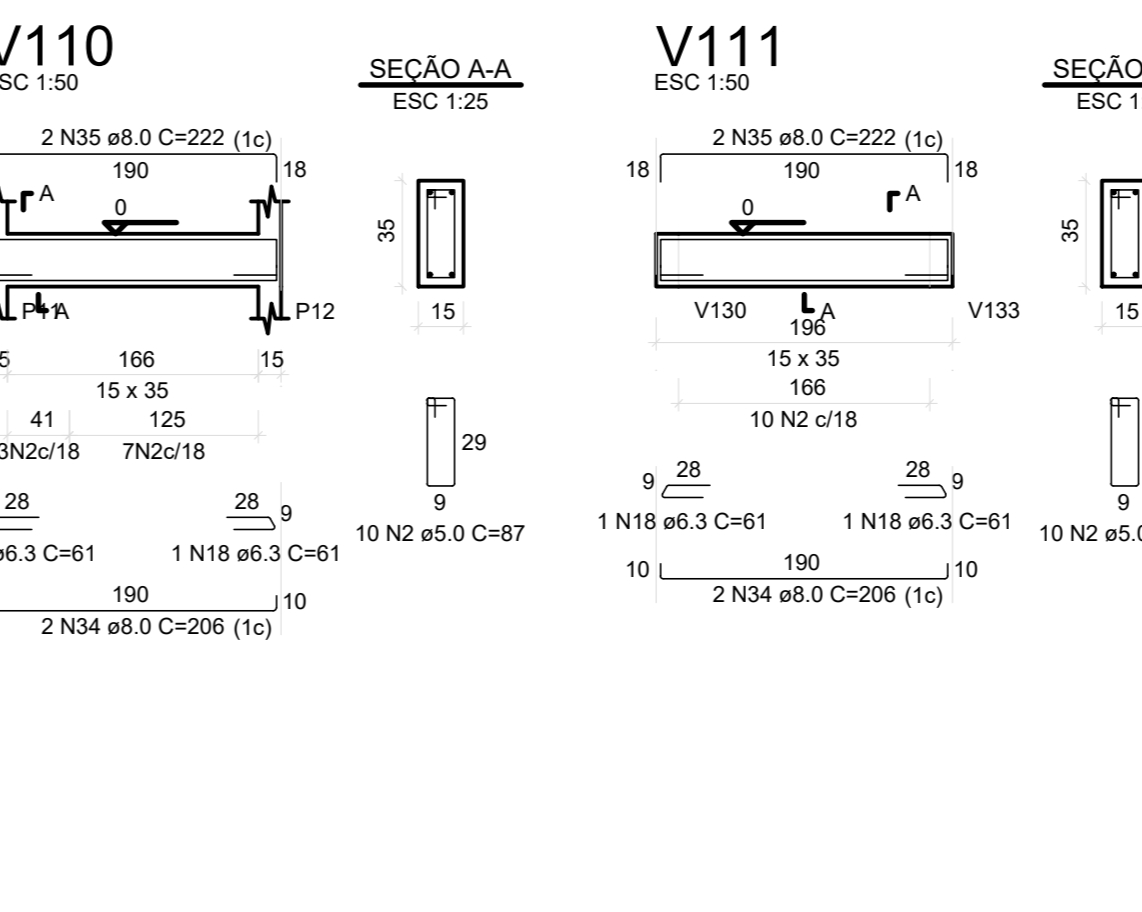
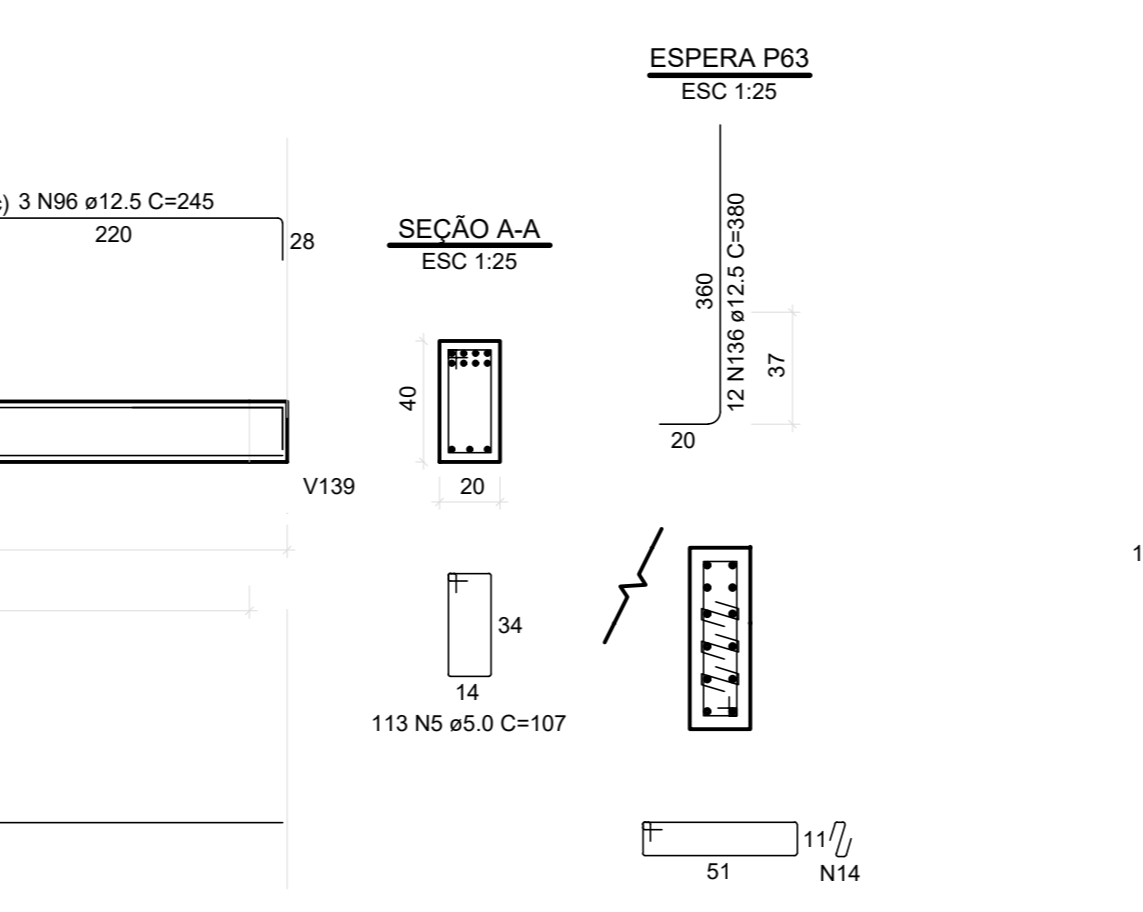
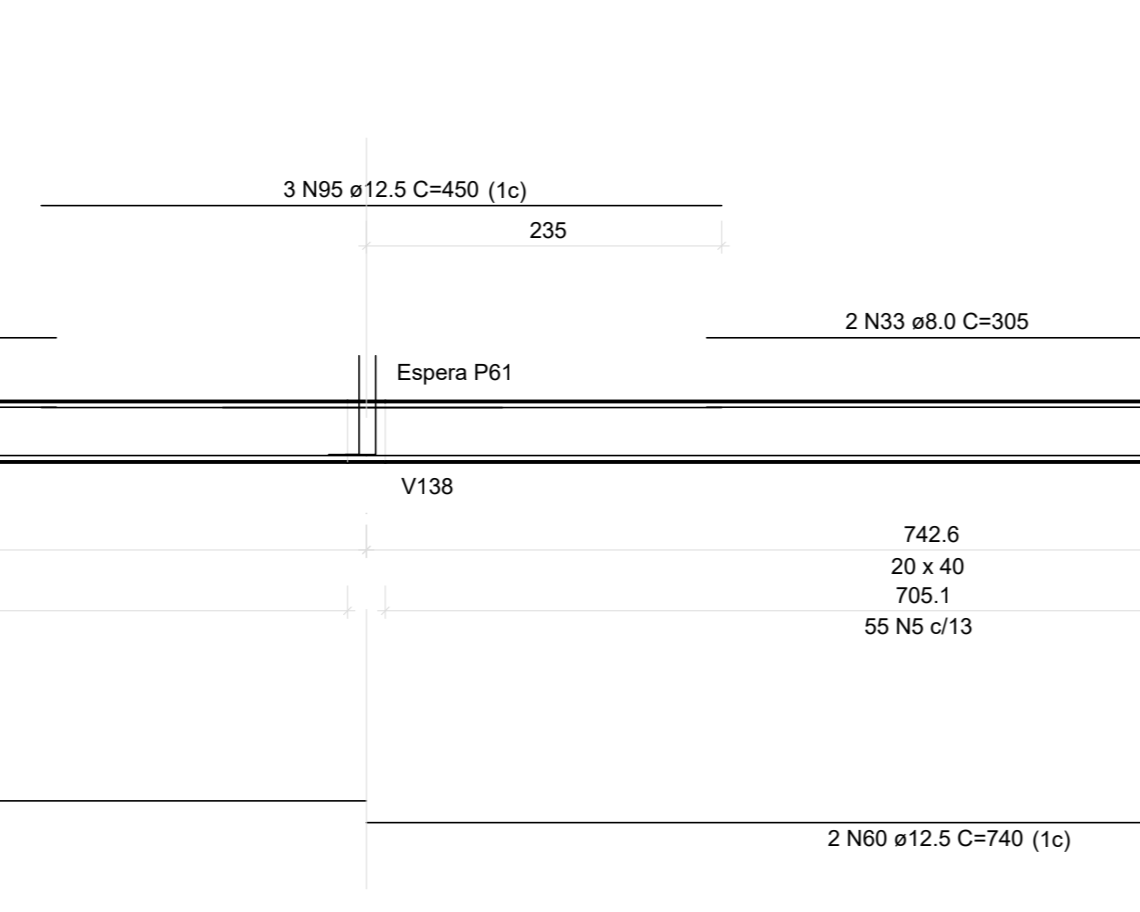
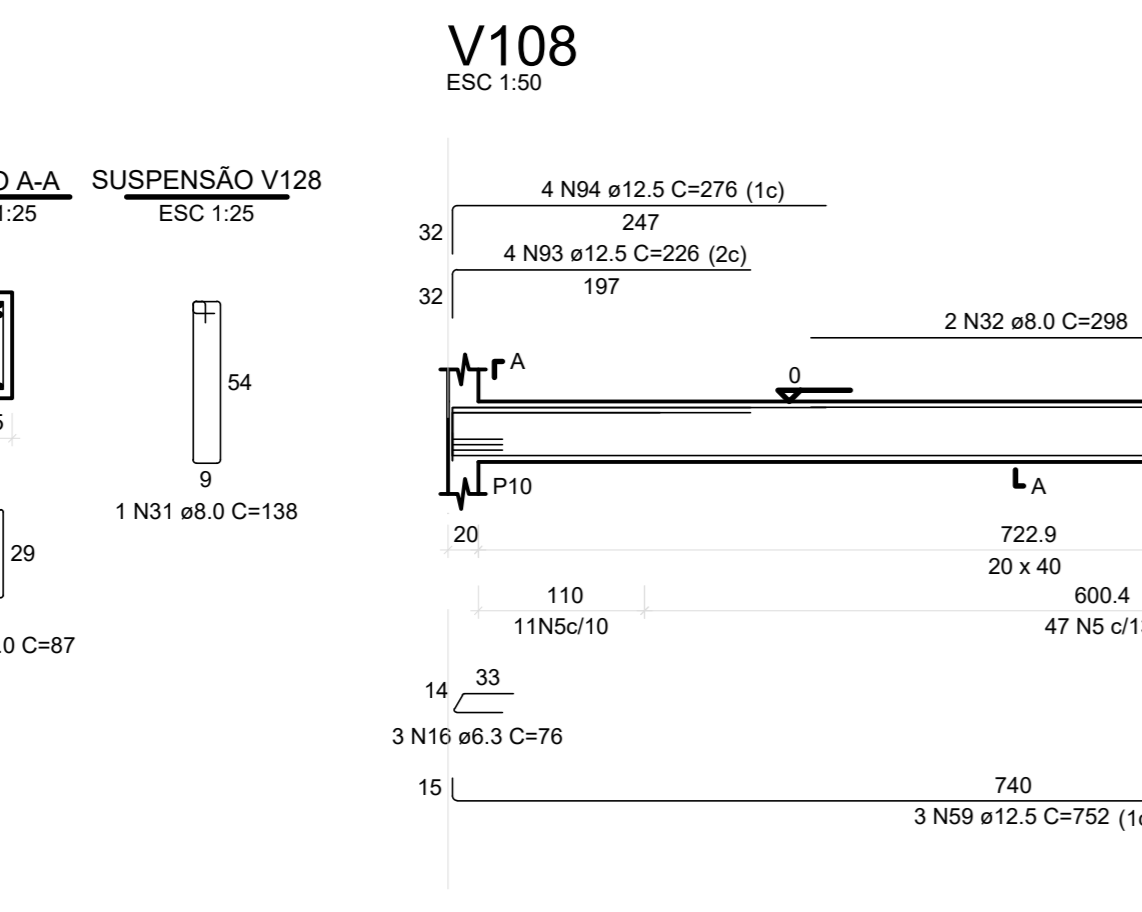
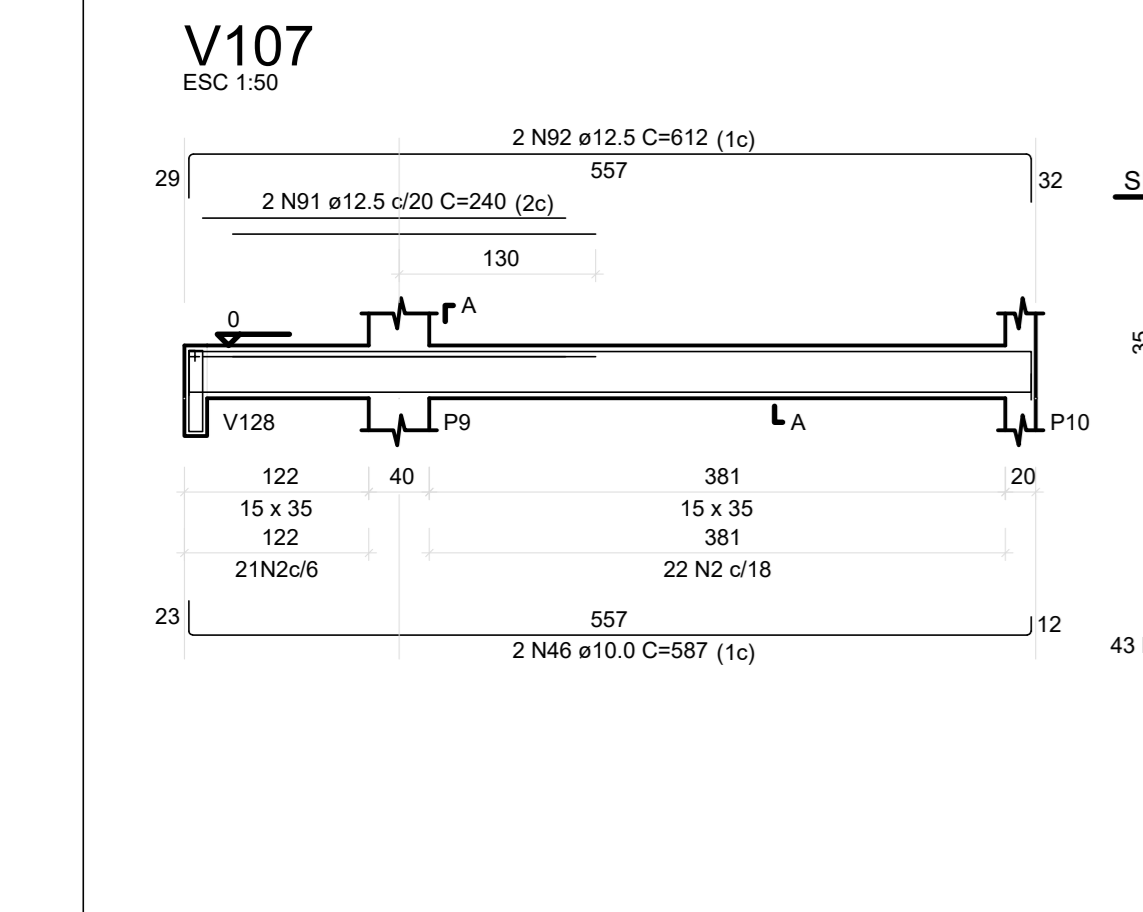
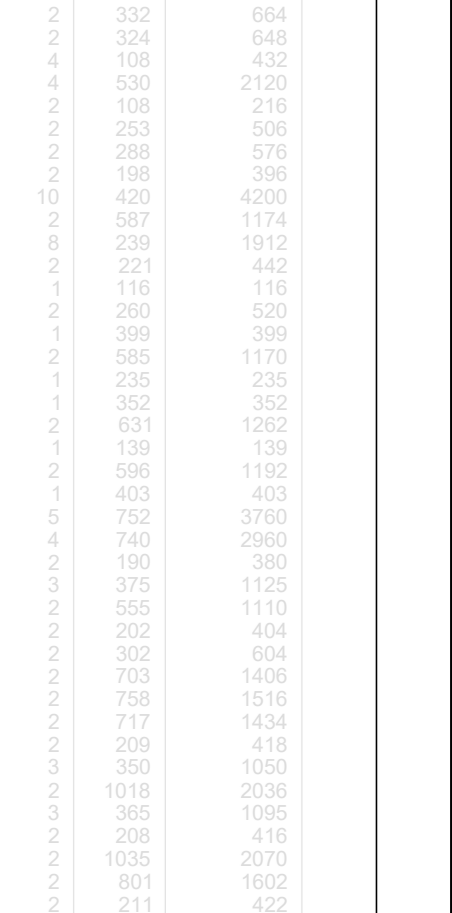
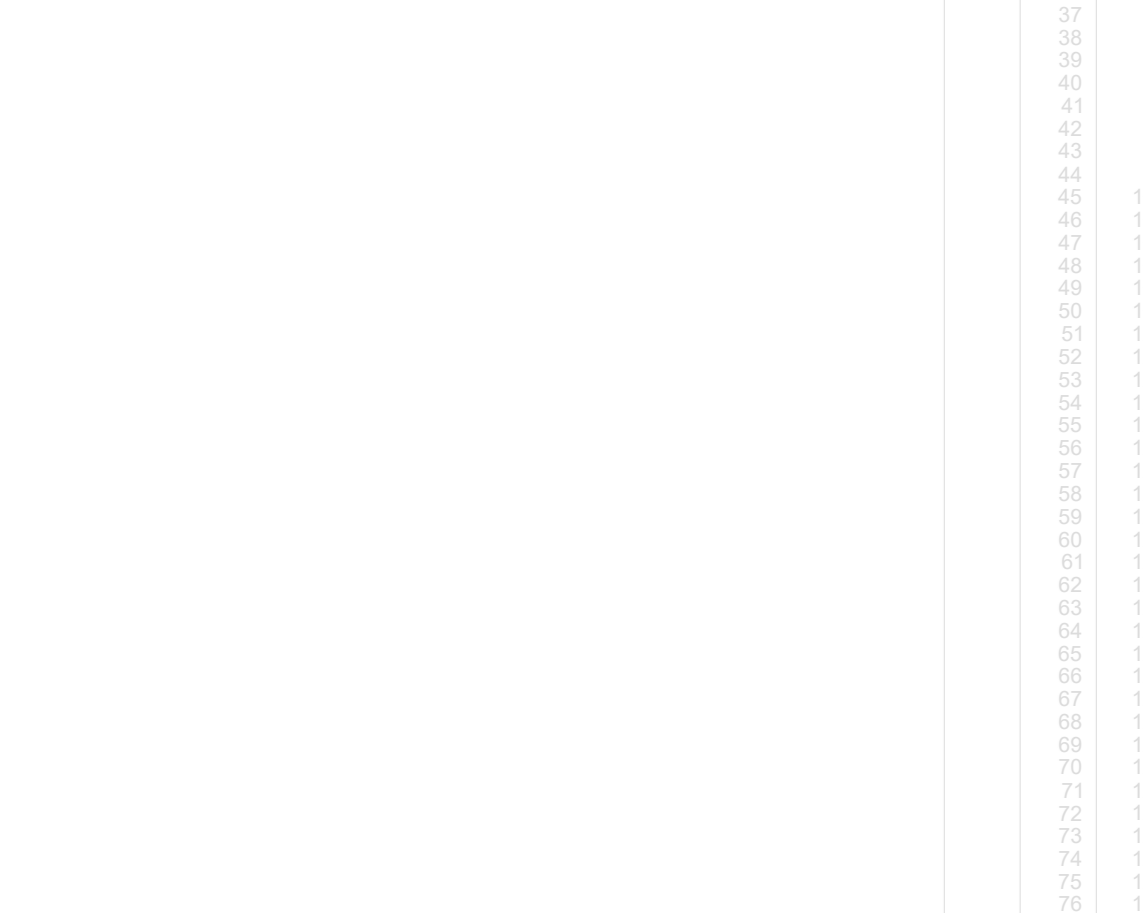
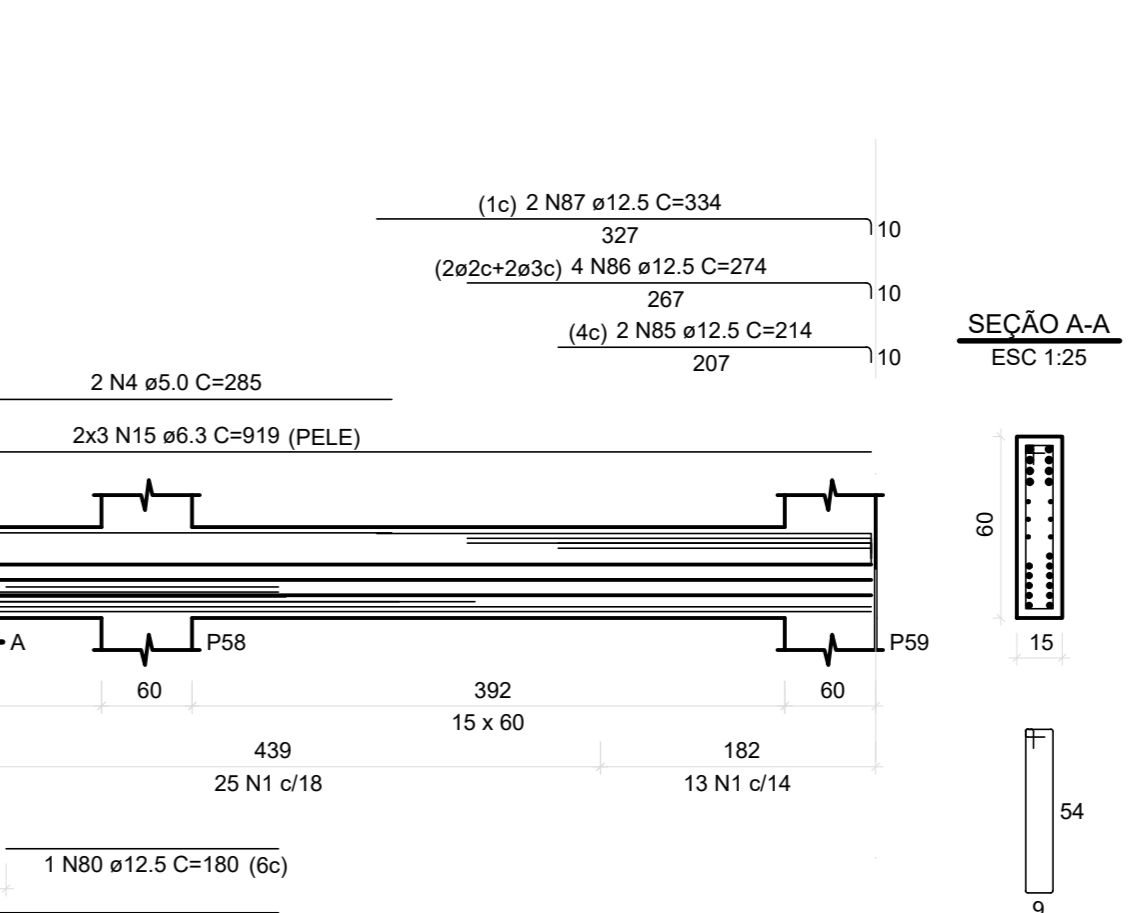
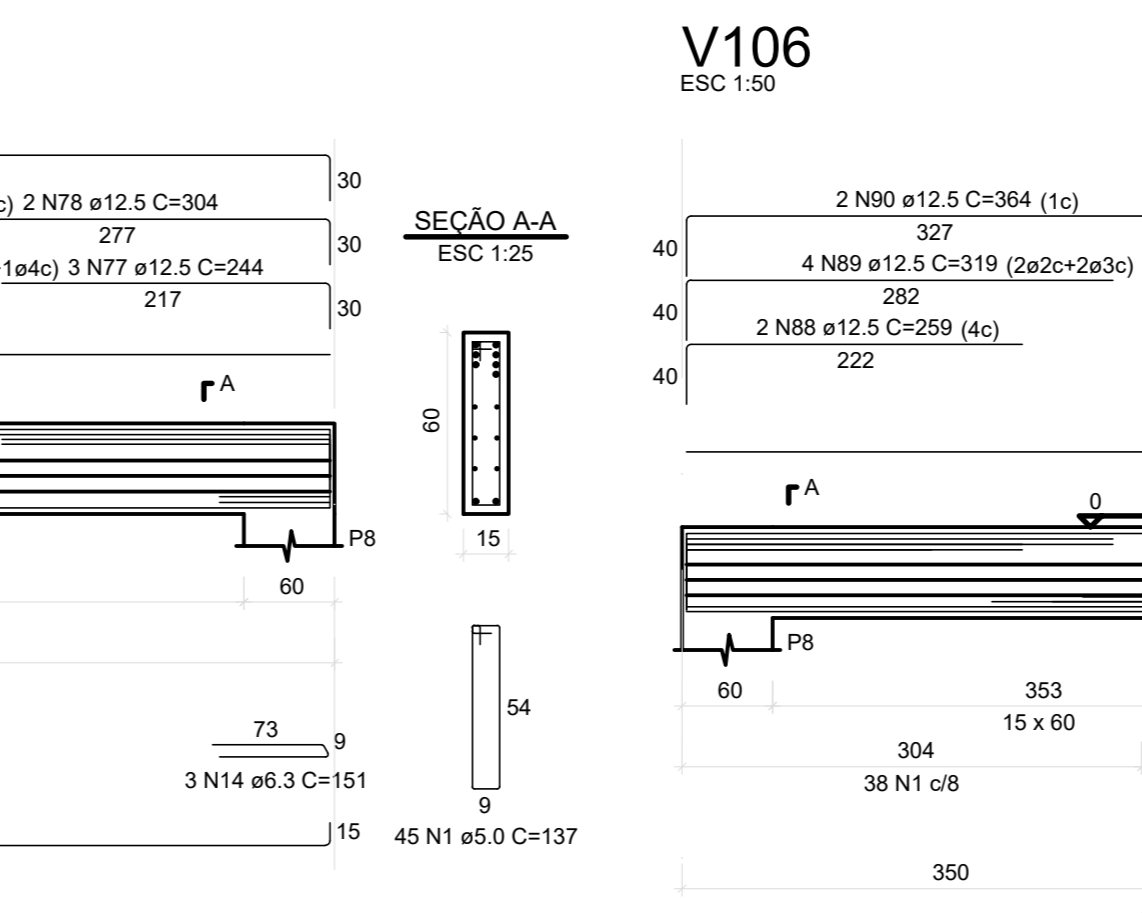
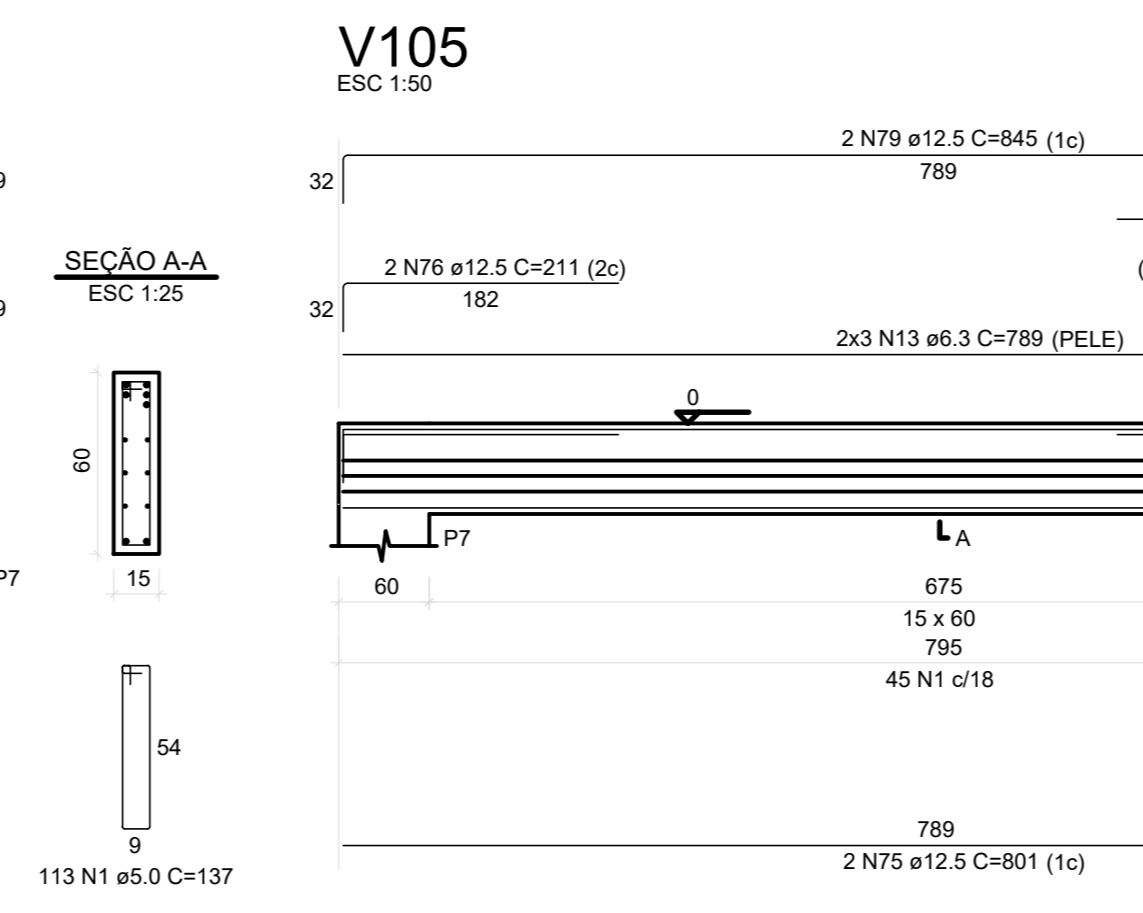
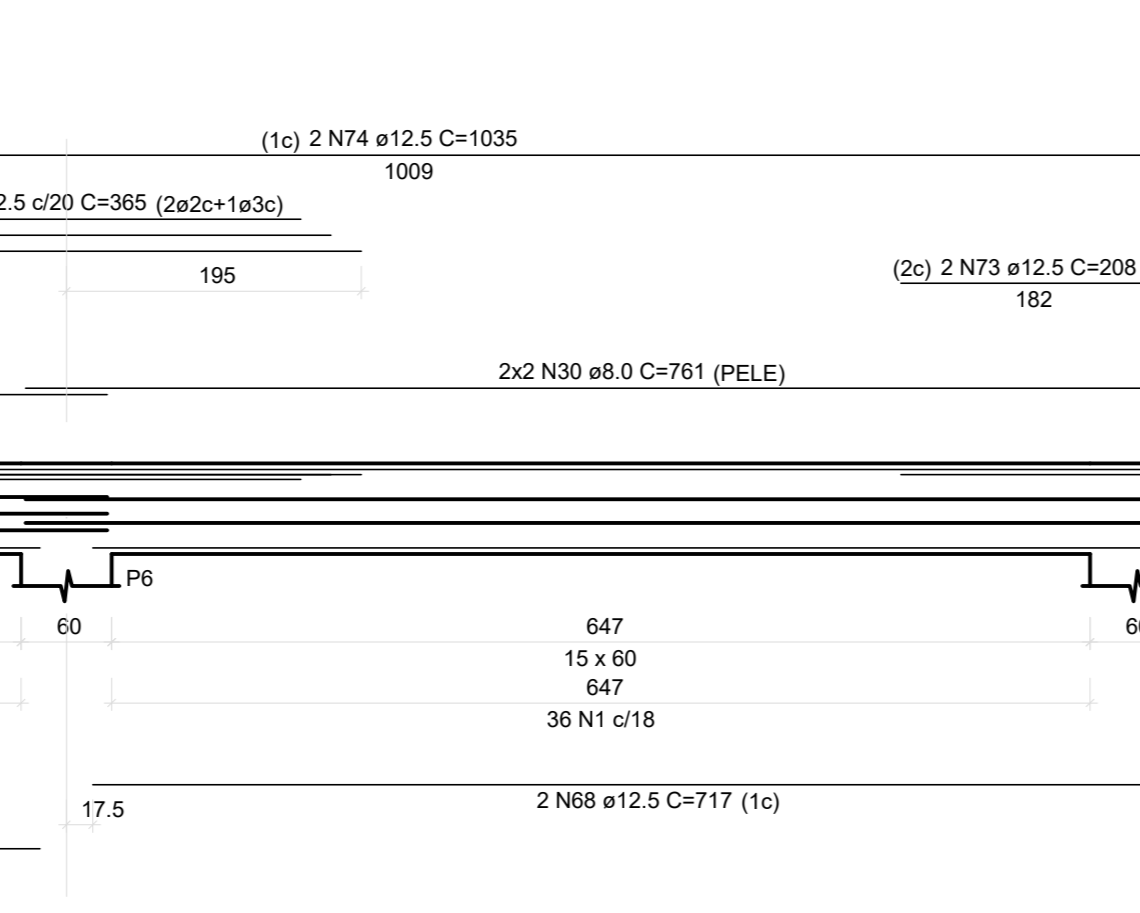
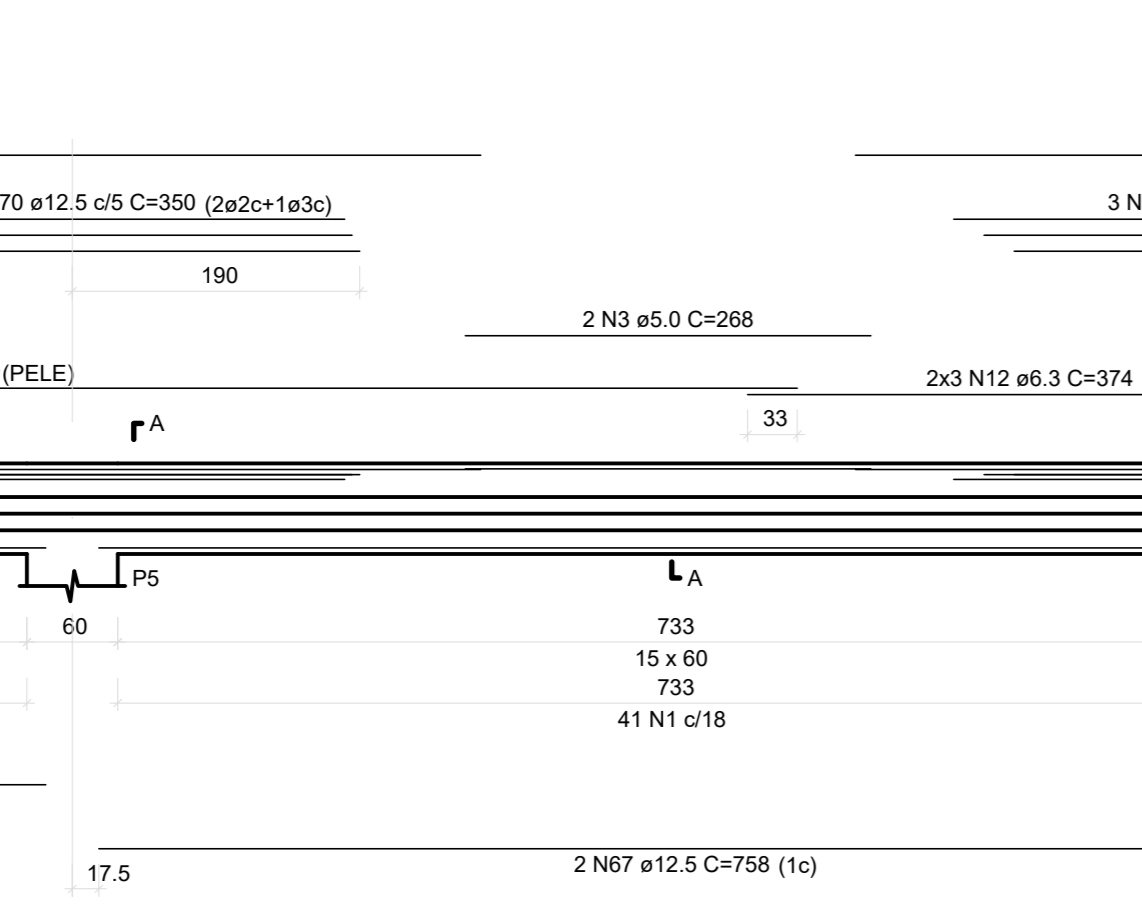
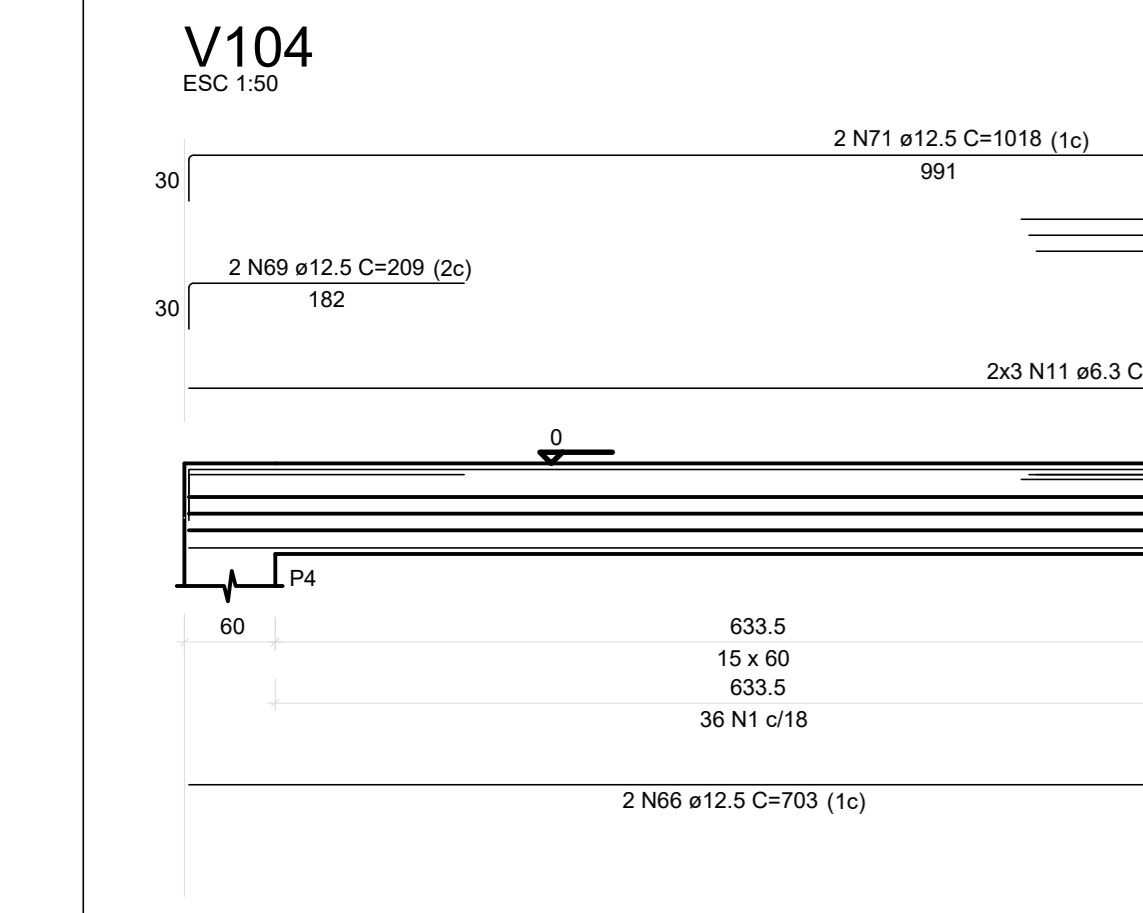
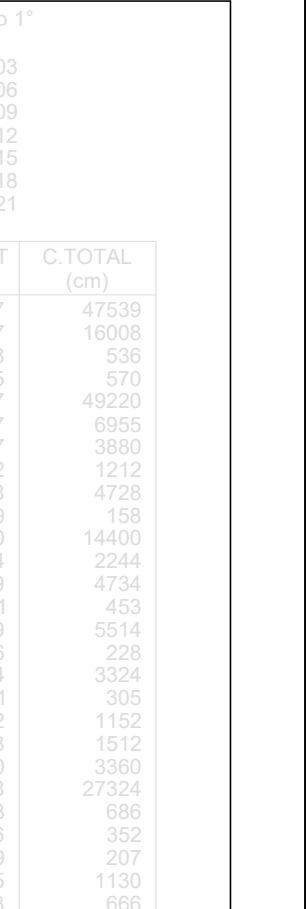
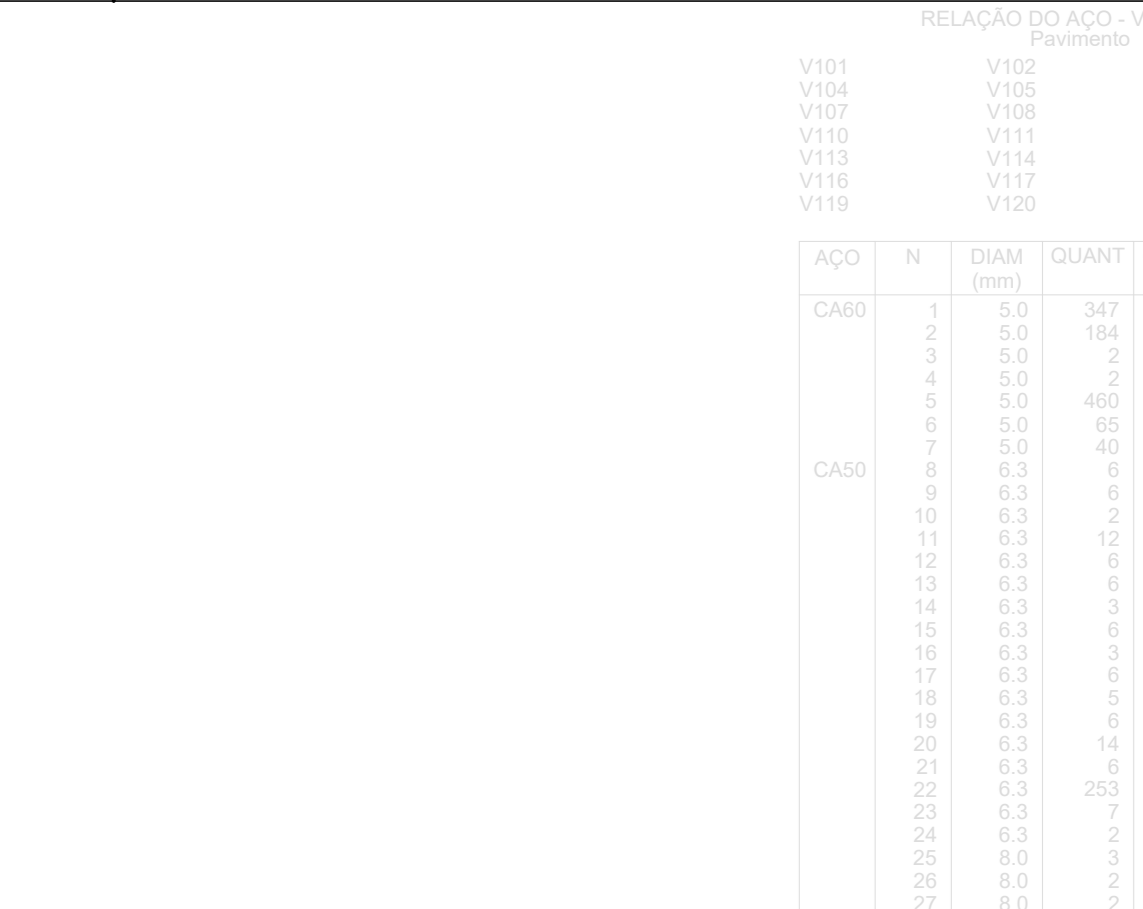
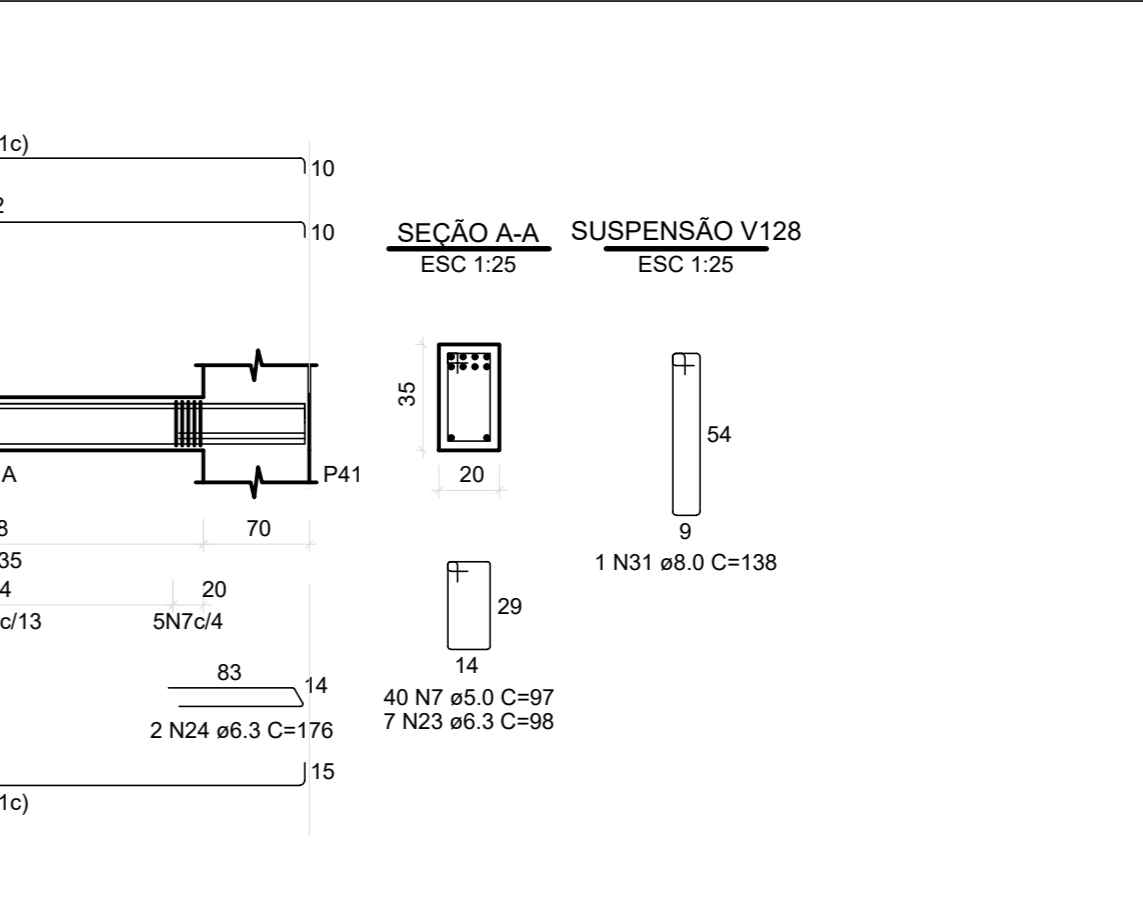
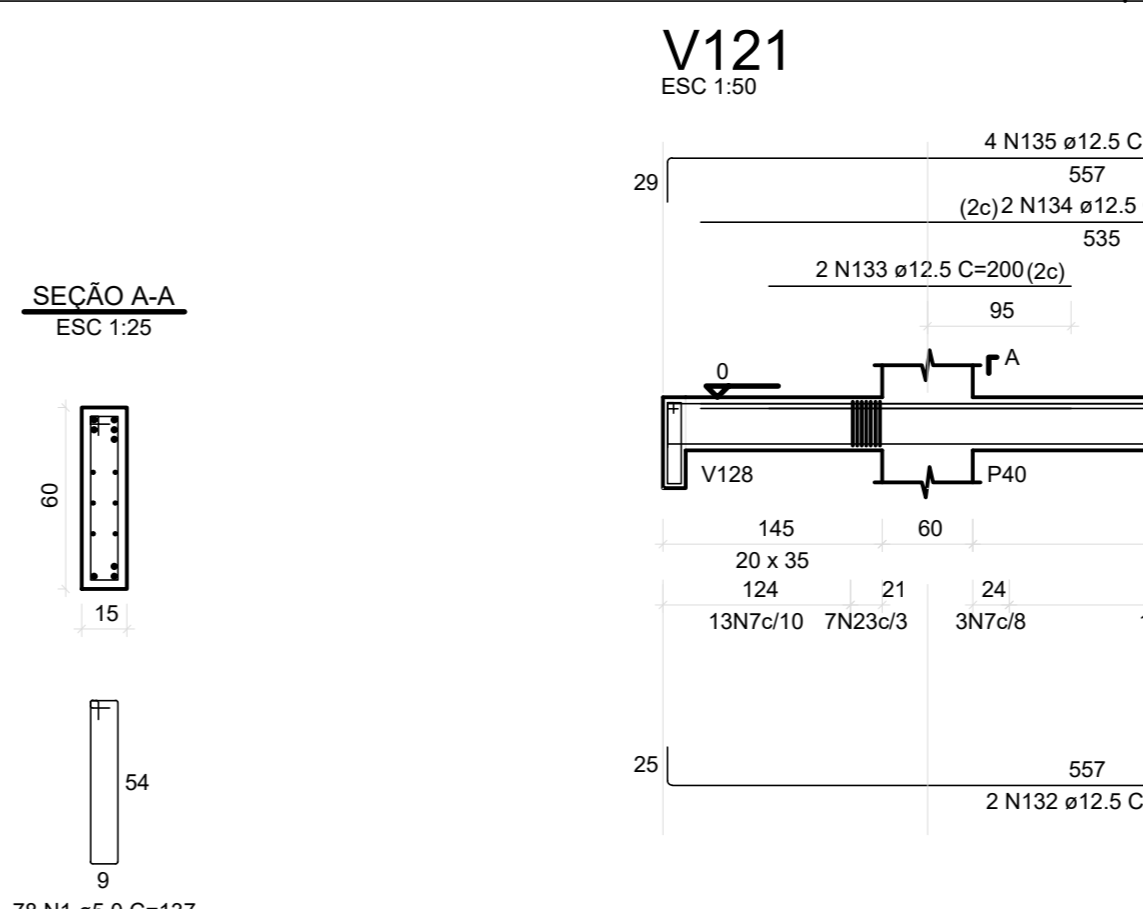
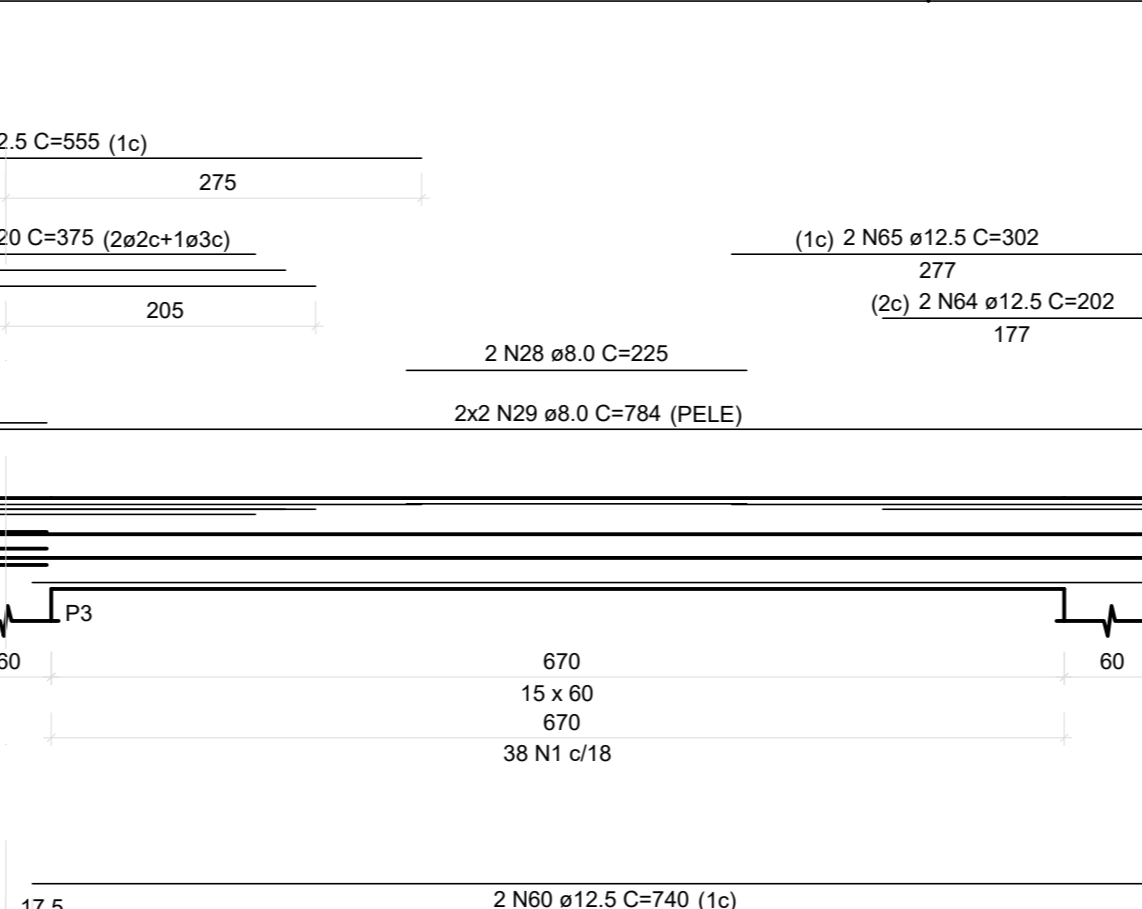
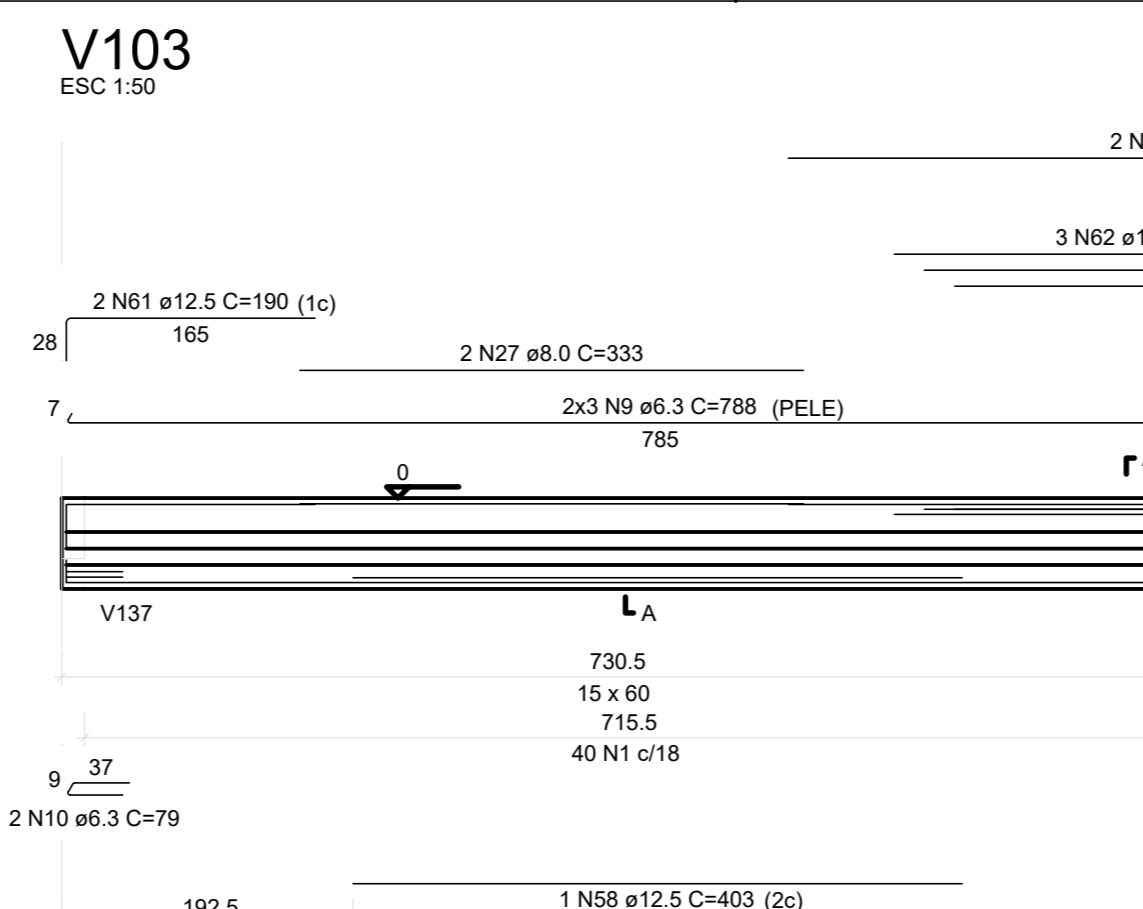
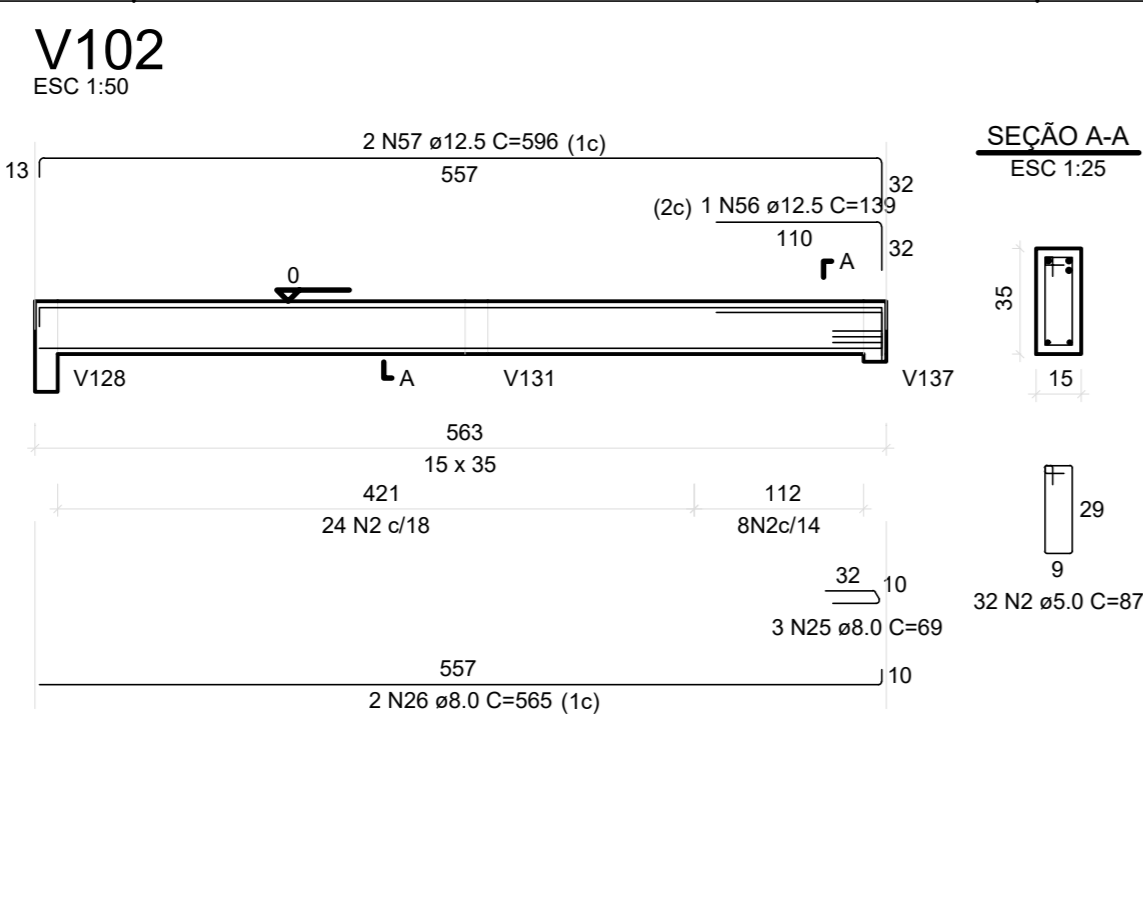
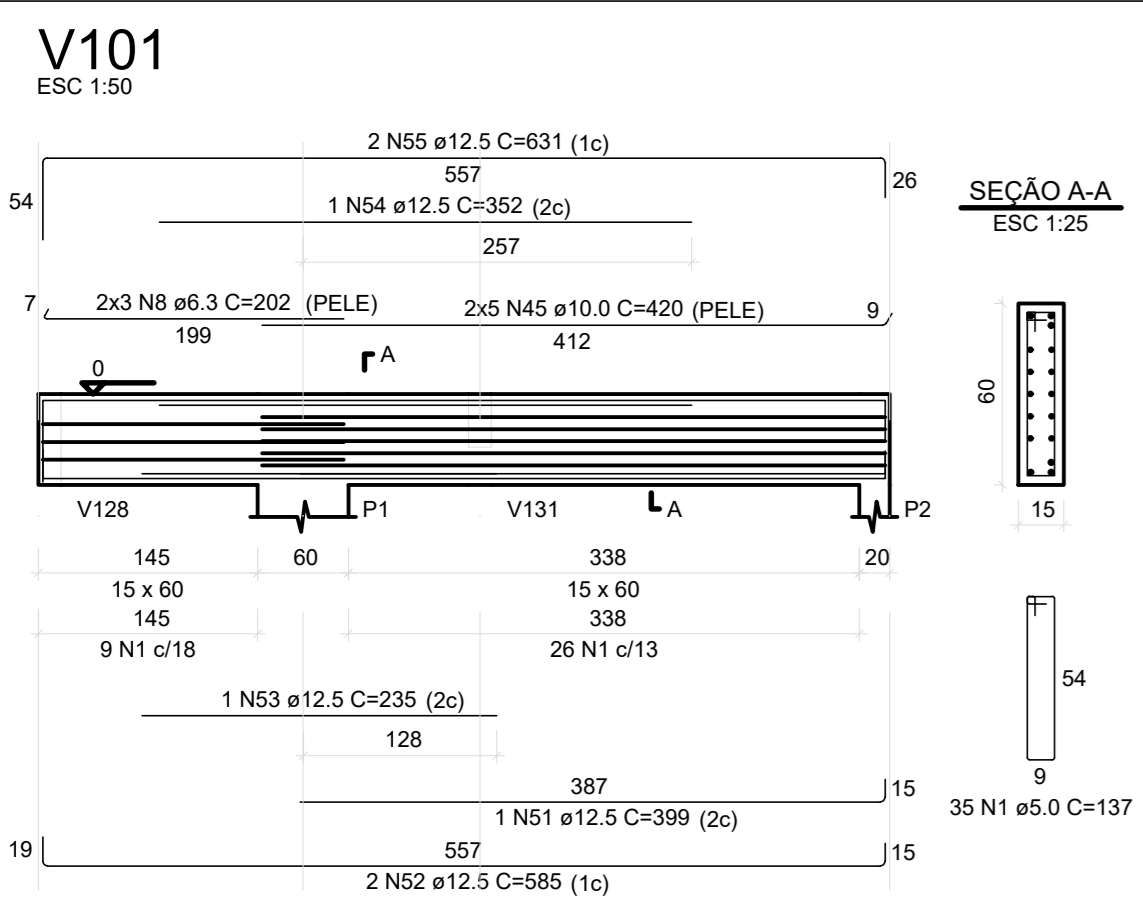


Revisões da prancha	

Emissão final LUS F 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO

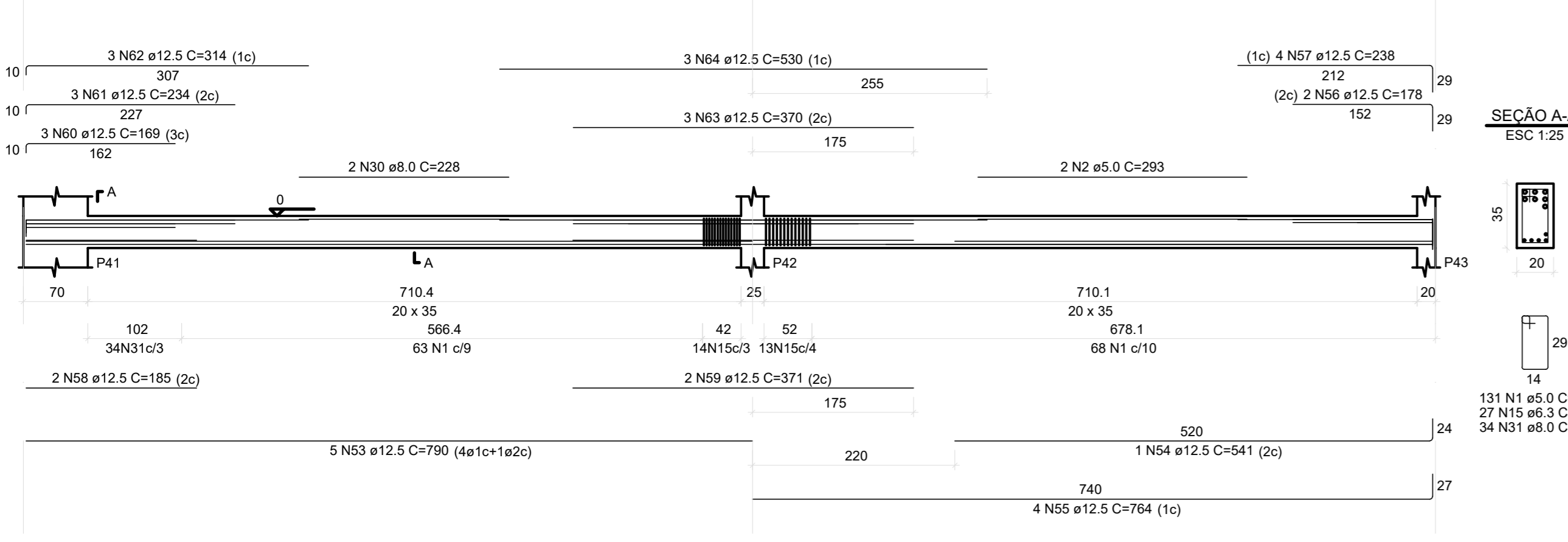


#### RESUMO DO AÇO

ACAO	N	DIAM	QUANT	C. CONT	COMPR	TIPO
ACAO	1	10	184	17	1600	1000
ACAO	2	12	10	17	1600	1000
ACAO	3	14	10	17	1600	1000
ACAO	4	16	10	17	1600	1000
ACAO	5	18	10	17	1600	1000
ACAO	6	20	10	17	1600	1000
ACAO	7	22	10	17	1600	1000
ACAO	8	24	10	17	1600	1000
ACAO	9	26	10	17	1600	1000
ACAO	10	28	10	17	1600	1000
ACAO	11	30	10	17	1600	1000
ACAO	12	32	10	17	1600	1000
ACAO	13	34	10	17	1600	1000
ACAO	14	36	10	17	1600	1000
ACAO	15	38	10	17	1600	1000
ACAO	16	40	10	17	1600	1000
ACAO	17	42	10	17	1600	1000
ACAO	18	44	10	17	1600	1000
ACAO	19	46	10	17	1600	1000
ACAO	20	48	10	17	1600	1000
ACAO	21	50	10	17	1600	1000
ACAO	22	52	10	17	1600	1000
ACAO	23	54	10	17	1600	1000
ACAO	24	56	10	17	1600	1000
ACAO	25	58	10	17	1600	1000
ACAO	26	60	10	17	1600	1000
ACAO	27	62	10	17	1600	1000
ACAO	28	64	10	17	1600	1000
ACAO	29	66	10	17	1600	1000
ACAO	30	68	10	17	1600	1000
ACAO	31	70	10	17	1600	1000
ACAO	32	72	10	17	1600	1000
ACAO	33	74	10	17	1600	1000
ACAO	34	76	10	17	1600	1000
ACAO	35	78	10	17	1600	1000
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ACAO	37	82	10	17	1600	1000
ACAO	38	84	10	17	1600	1000
ACAO	39	86	10	17	1600	1000
ACAO	40	88	10	17	1600	1000
ACAO	41	90	10	17	1600	1000
ACAO	42	92	10	17	1600	1000
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ACAO	53	114	10	17	1600	1000
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ACAO	58	124	10	17	1600	1000
ACAO	59	126	10	17	1600	1000
ACAO	60	128	10	17	1600	1000
ACAO	61	130	10	17	1600	1000
ACAO	62	132	10	17	1600	1000
ACAO	63	134	10	17	1600	1000
ACAO	64	136	10	17	1600	1000
ACAO	65	138	10	17	1600	1000
ACAO	66	140	10	17	1600	1000
ACAO	67	142	10	17	1600	1000
ACAO	68	144	10	17	1600	1000
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ACAO	108	224	10	17	1600	1000
ACAO	109	226	10	17	1600	1000
ACAO	110	228	10	17	1600	1000
ACAO	111	230	10	17	1600	1000
ACAO	112	232	10	17	1600	1000
ACAO	113	234	10	17	1600	1000
ACAO	114	236	10	17	1600	1000

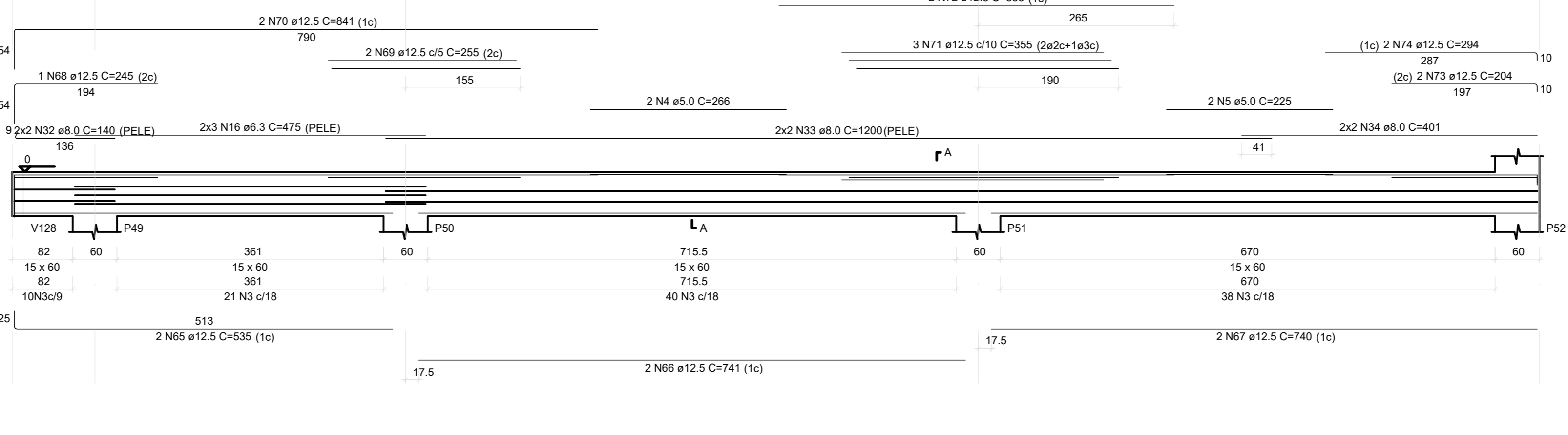
V122

ESC 1:50



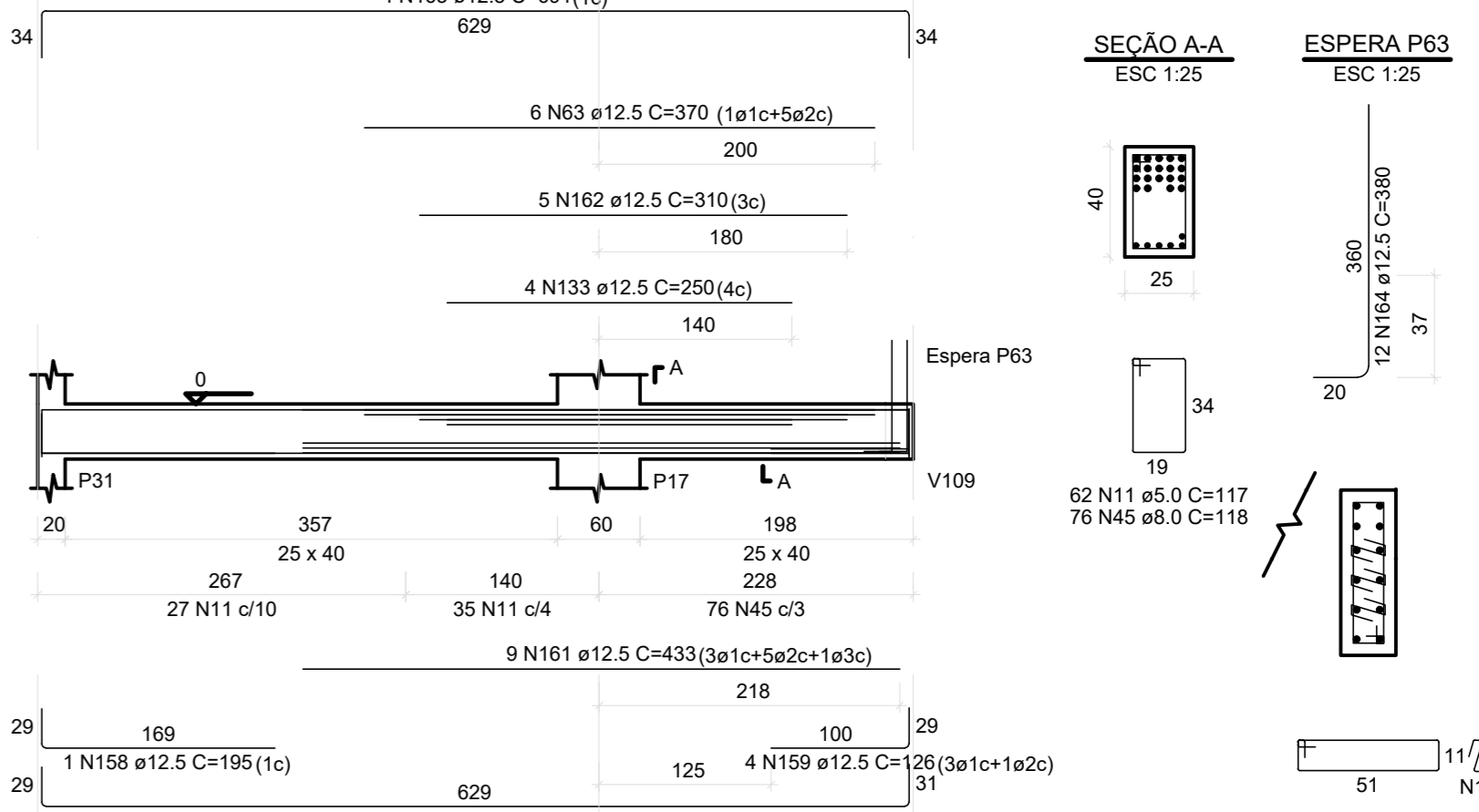
V123

ESC 1:50



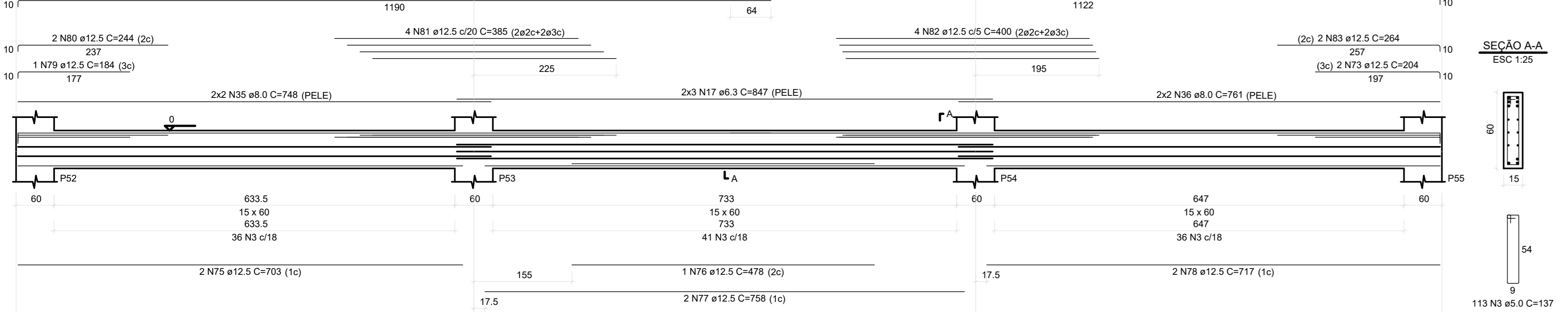
V142

ESC 1:50



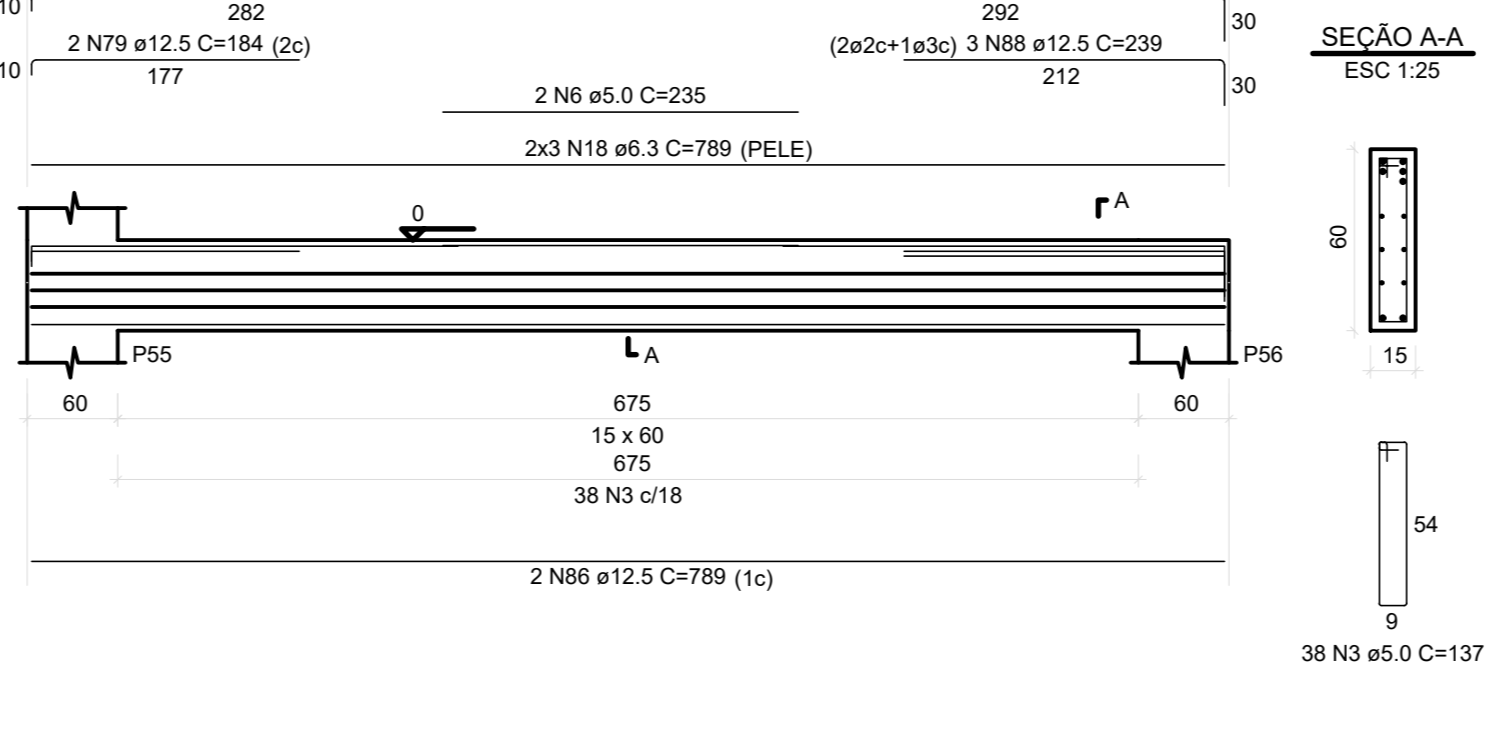
V124

ESC 1:50



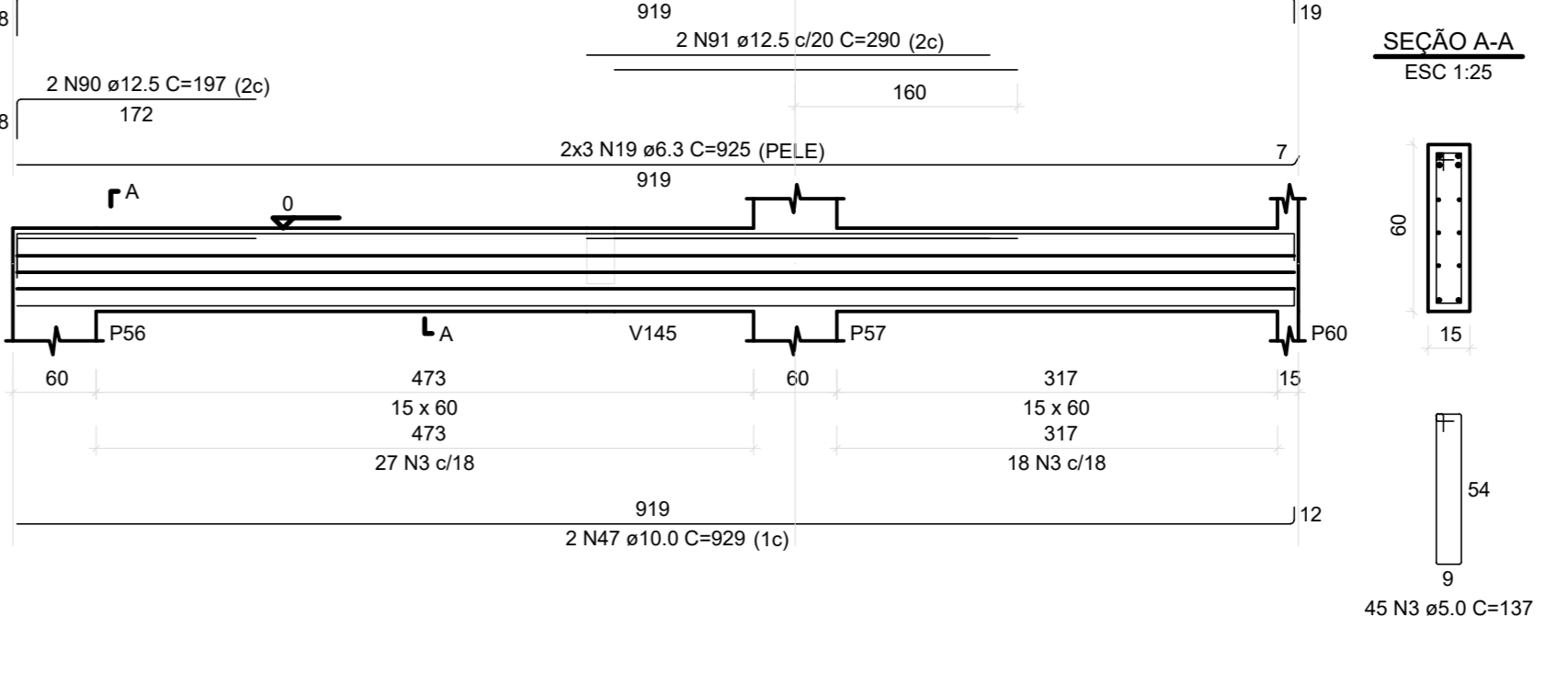
V125

ESC 1:50



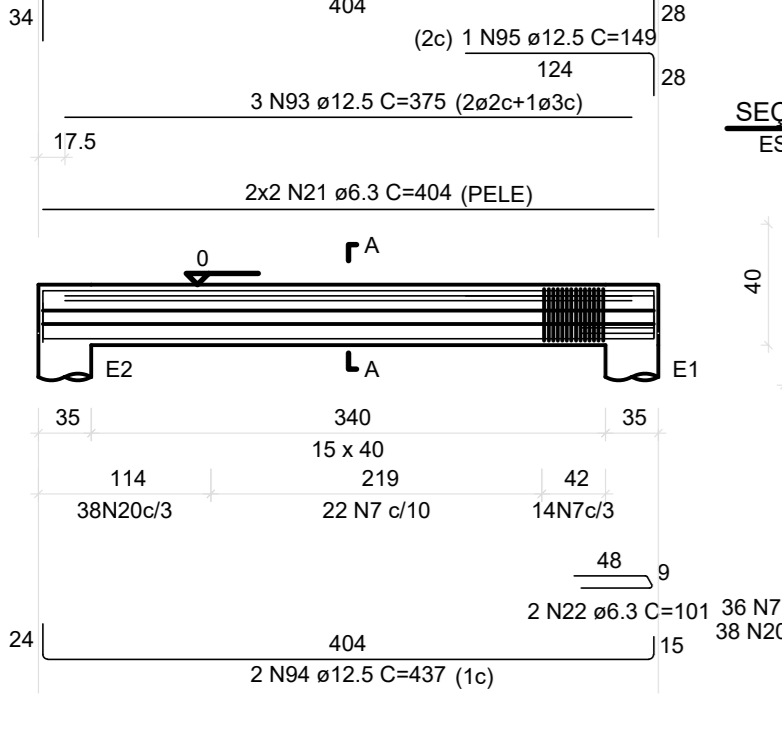
V126

ESC 1:50



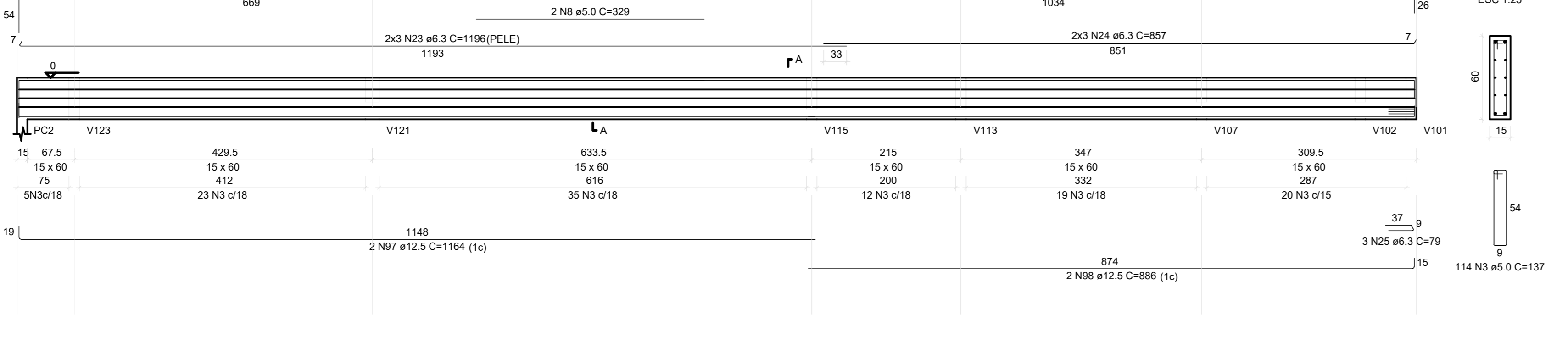
V127

ESC 1:50



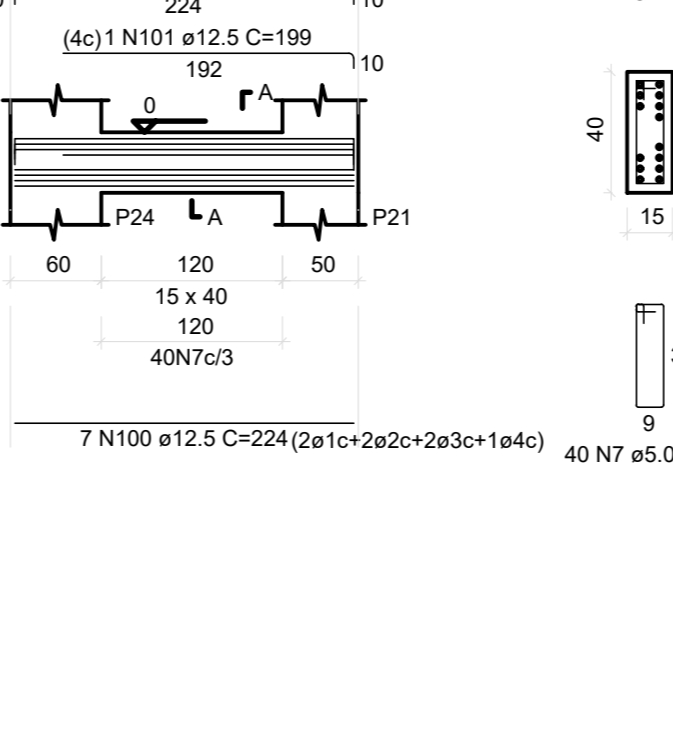
V128

ESC 1:50



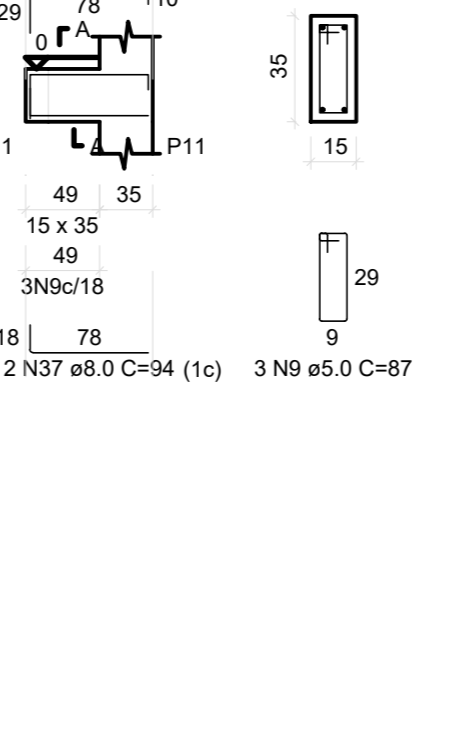
V129

ESC 1:50



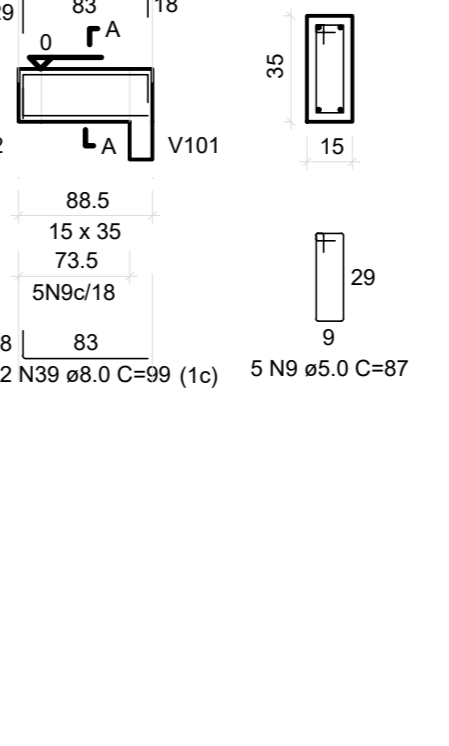
V130

ESC 1:50



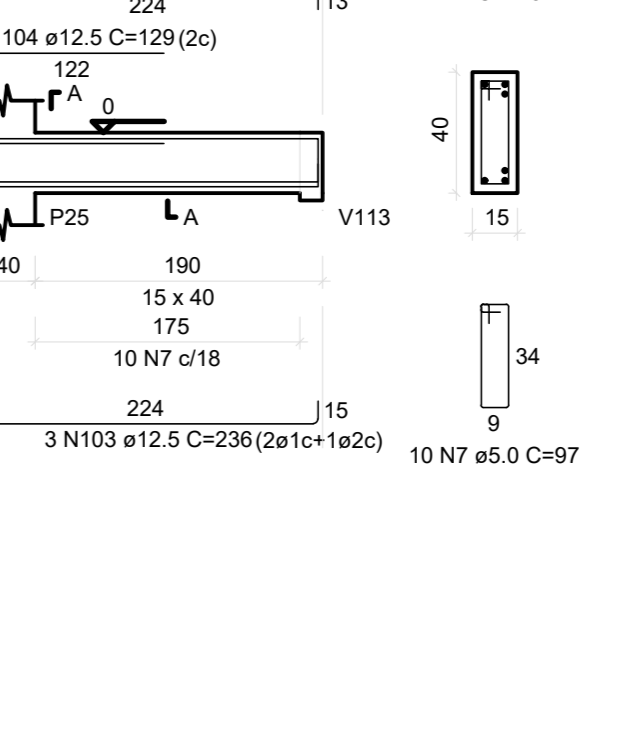
V131

ESC 1:50



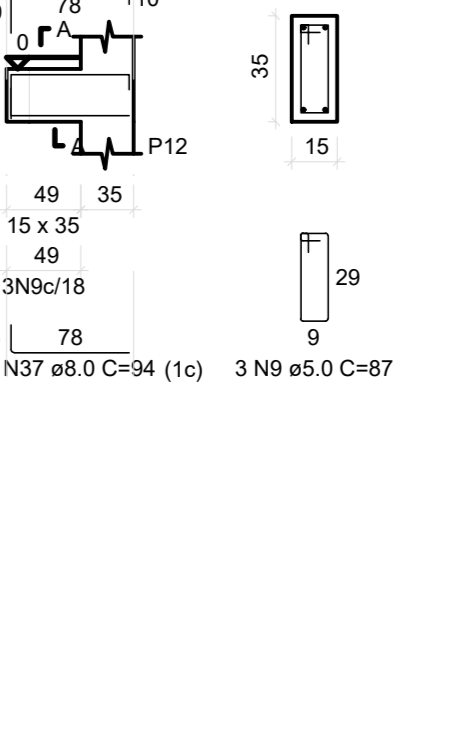
V132

ESC 1:50



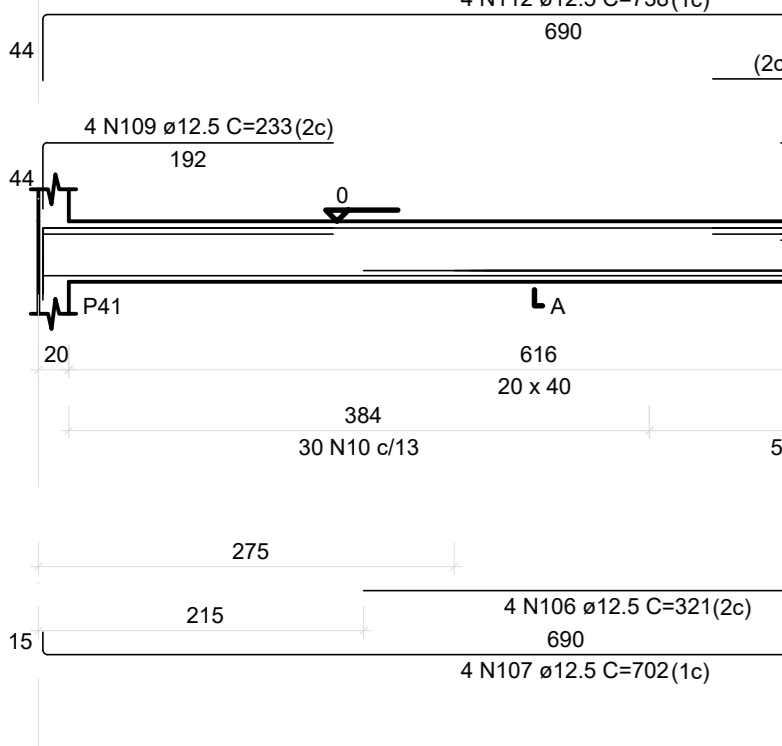
V133

ESC 1:50



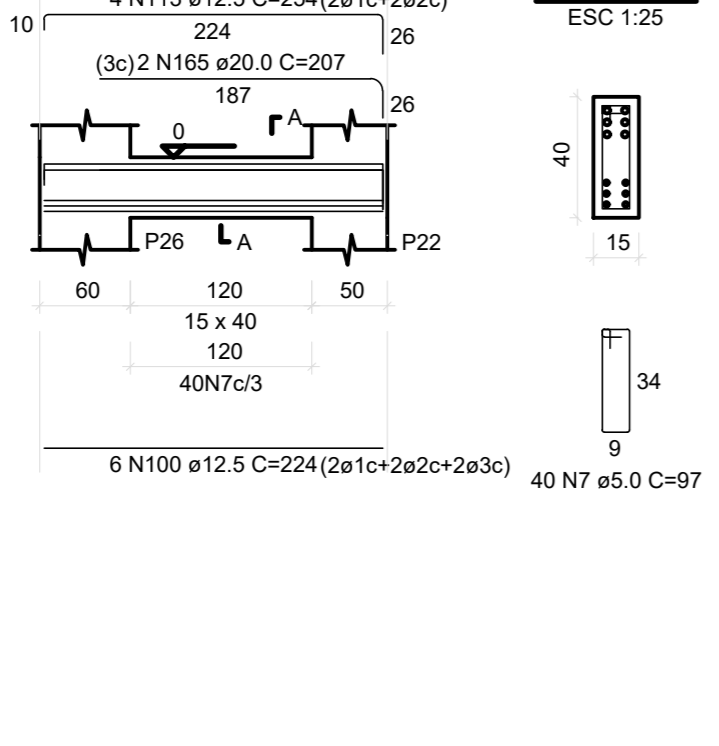
V134

ESC 1:50



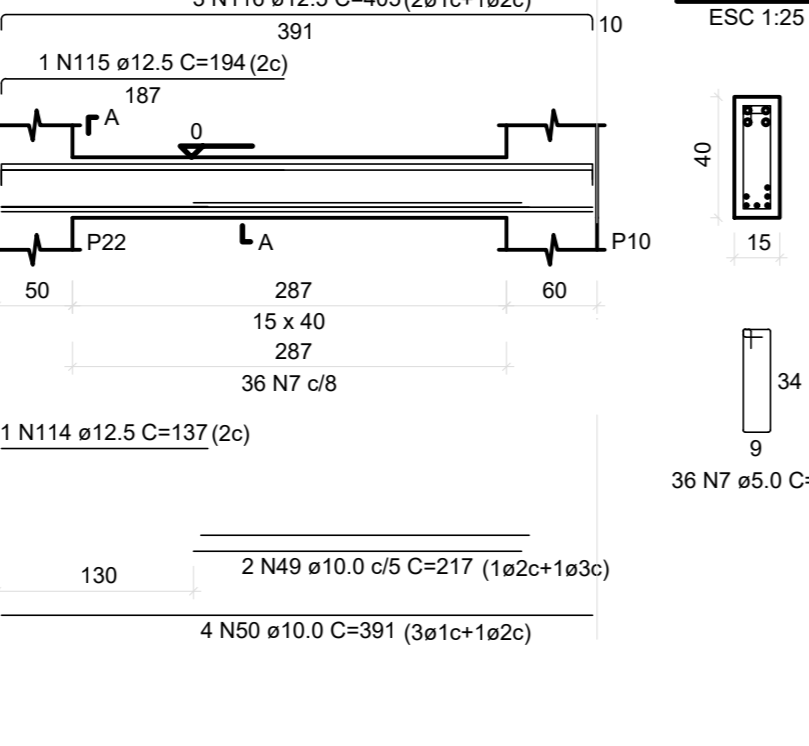
V135

ESC 1:50



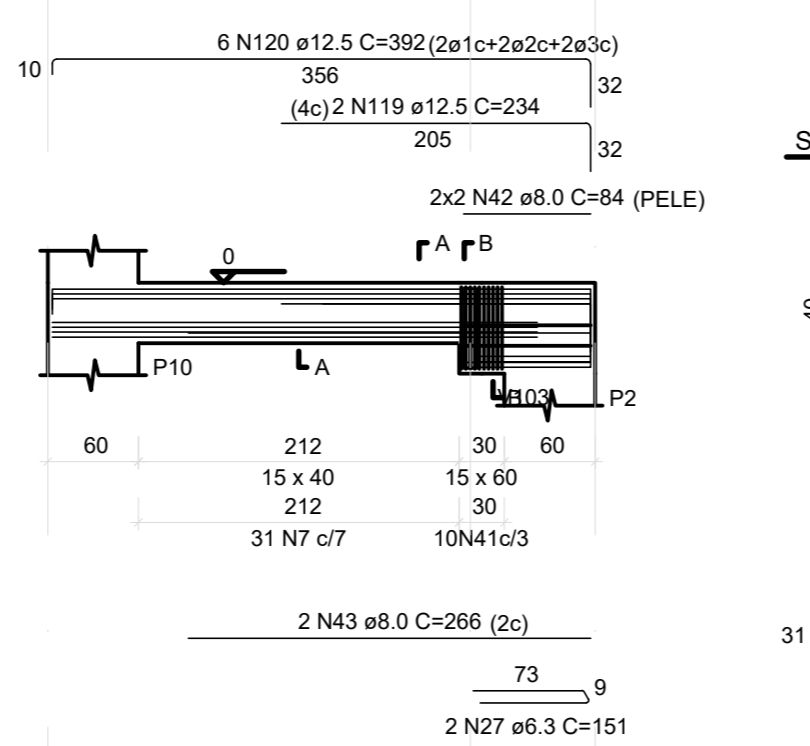
V136

ESC 1:50



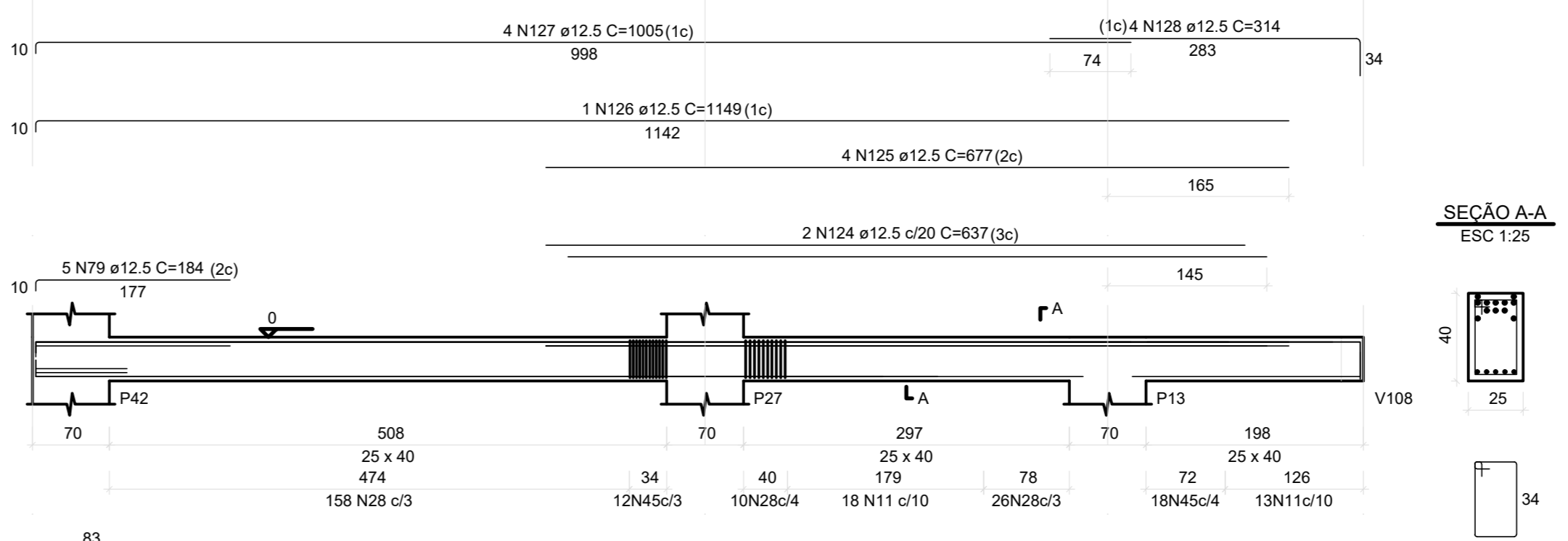
V137

ESC 1:50



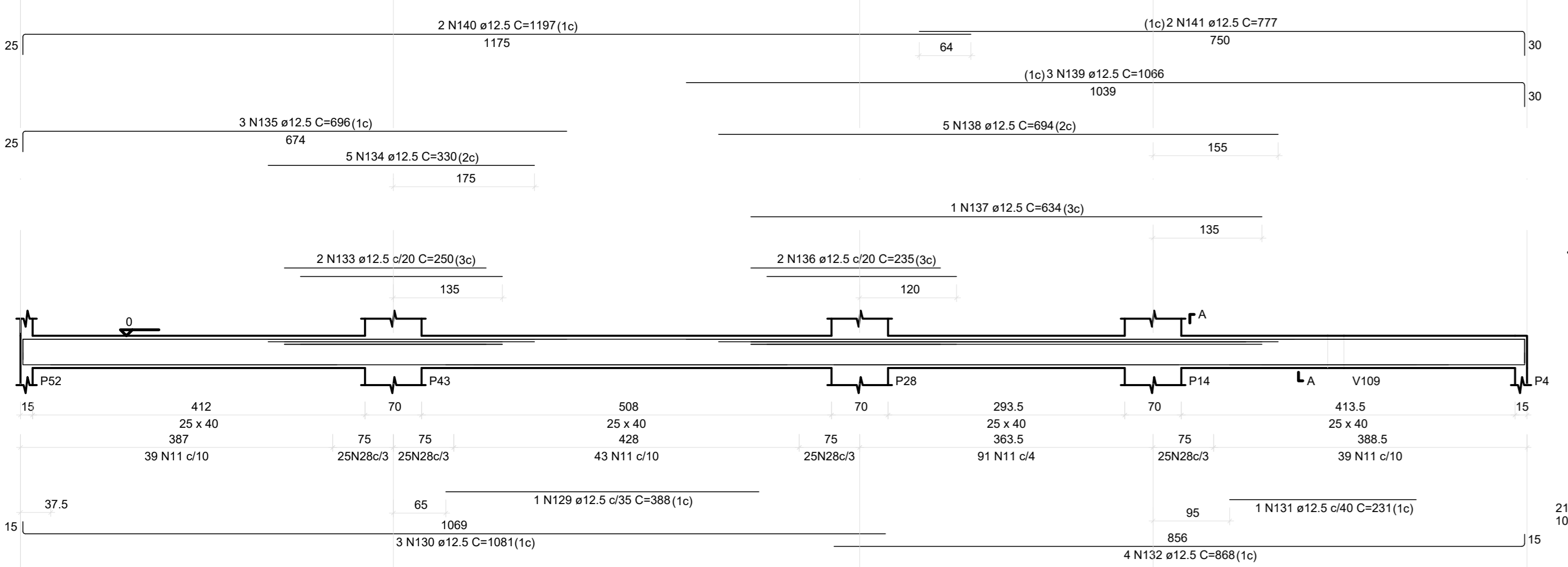
V138

ESC 1:50



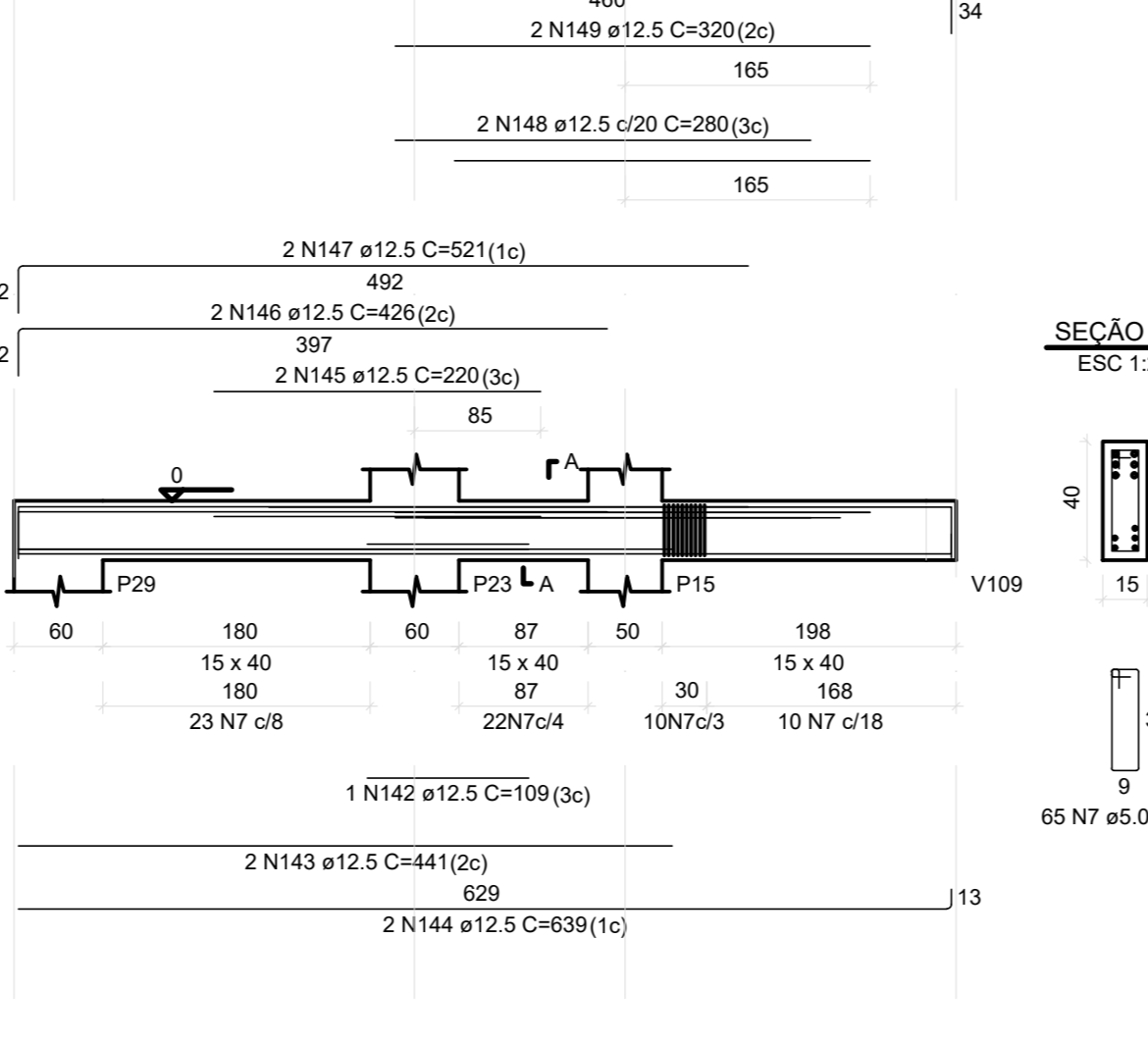
V139

ESC 1:50



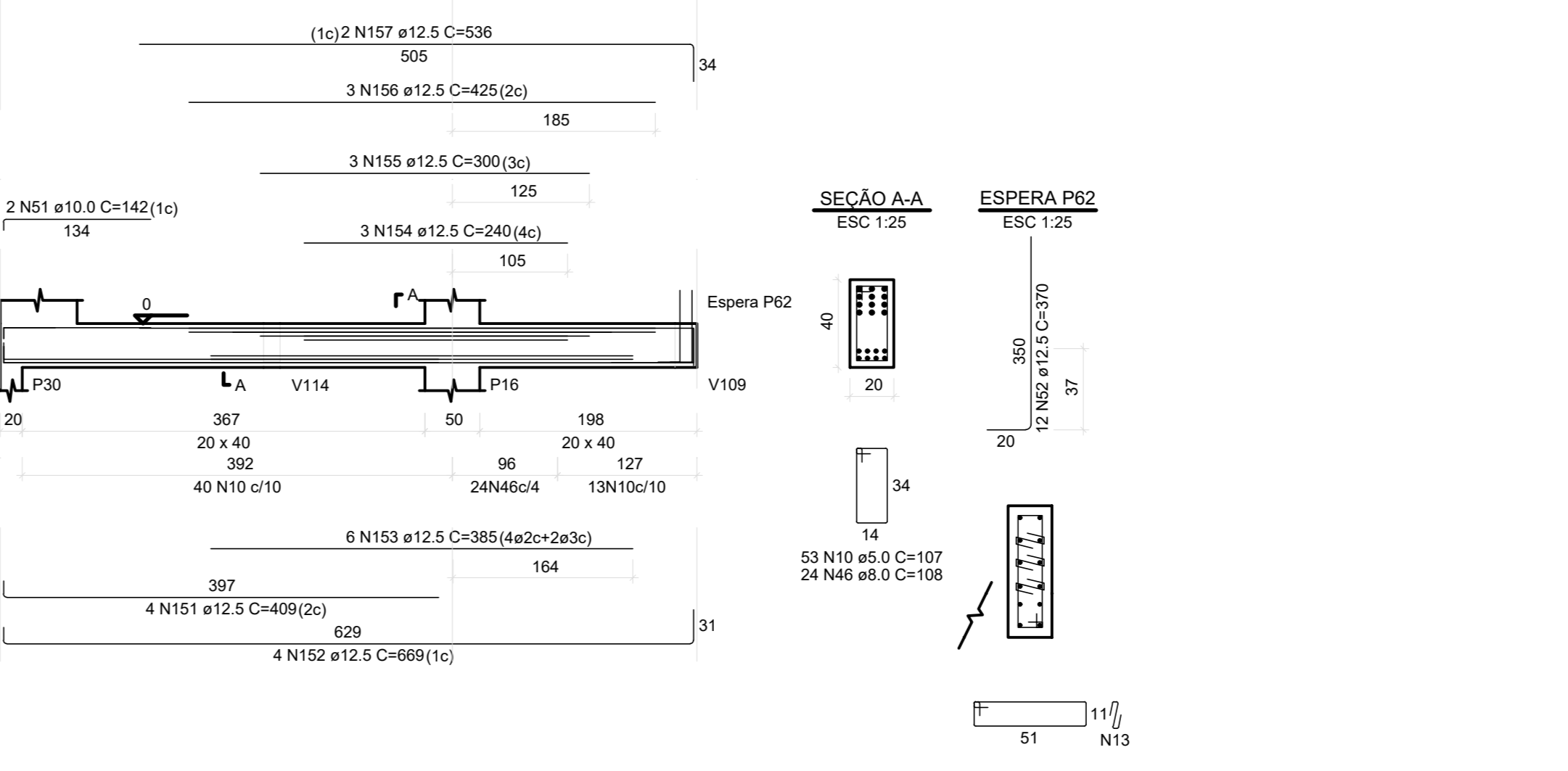
V140

ESC 1:50



V141

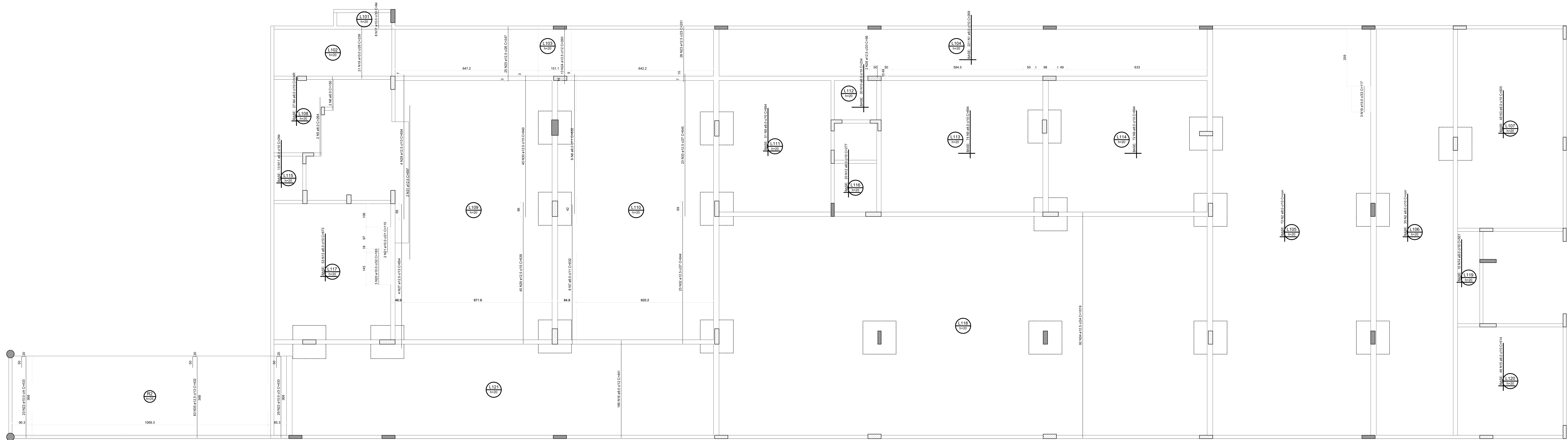
ESC 1:50



RESUMO DO AÇO			
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400			

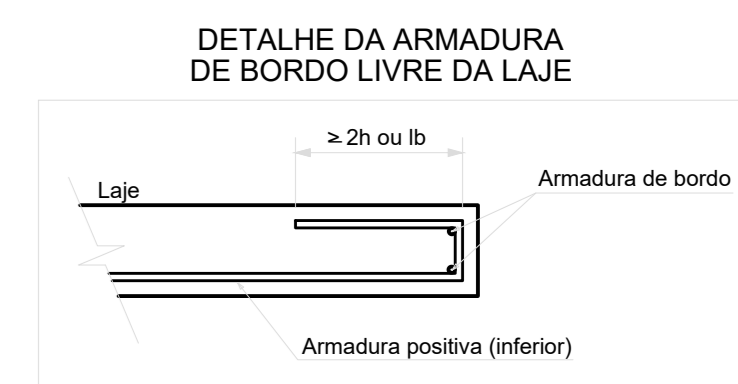






RELACÃO DO AÇO - Laje do 1º Pavimento

ACO	NR	QUANT	TIPO	COMPR	DIAMETRO	RESUMO DO AÇO
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L102	10	1	1	1000	10	1000
L103	10	1	1	1000	10	1000
L104	10	1	1	1000	10	1000
L105	10	1	1	1000	10	1000
L106	10	1	1	1000	10	1000
L107	10	1	1	1000	10	1000
L108	10	1	1	1000	10	1000
L109	10	1	1	1000	10	1000
L110	10	1	1	1000	10	1000
L111	10	1	1	1000	10	1000
L112	10	1	1	1000	10	1000
L113	10	1	1	1000	10	1000
L114	10	1	1	1000	10	1000
L115	10	1	1	1000	10	1000
L116	10	1	1	1000	10	1000
L117	10	1	1	1000	10	1000
L118	10	1	1	1000	10	1000
L119	10	1	1	1000	10	1000
L120	10	1	1	1000	10	1000



Armação Positiva das Lajes do Pavimento 1º Pav. (Eixo Y)

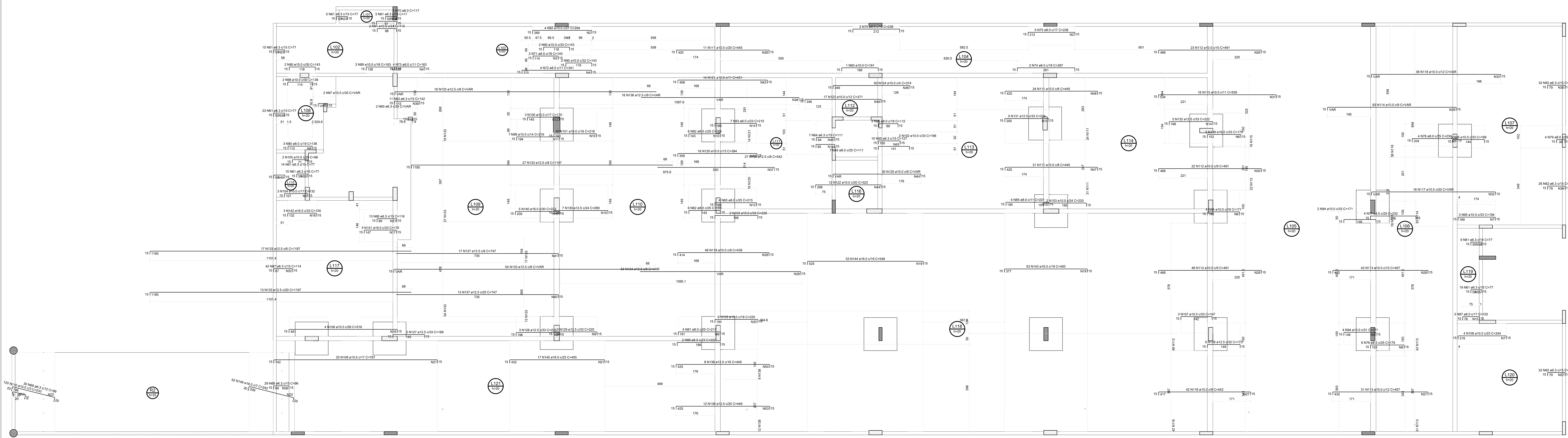
Revisões da prancha

Nº	Descrição	Data
1	Emissão Inicial	22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



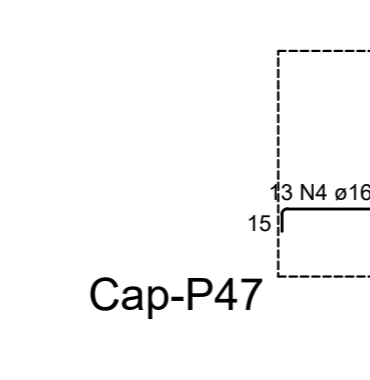
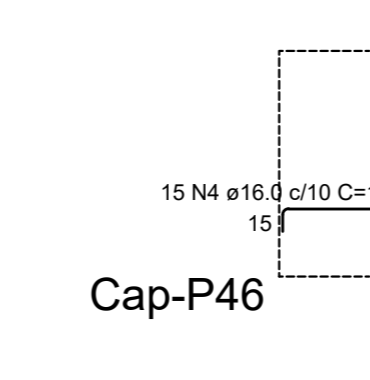
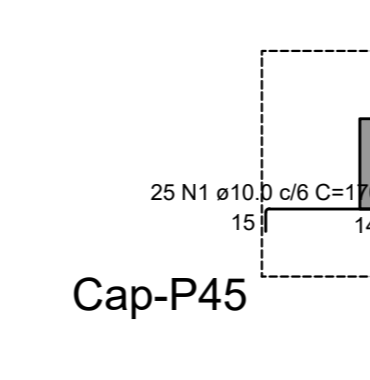
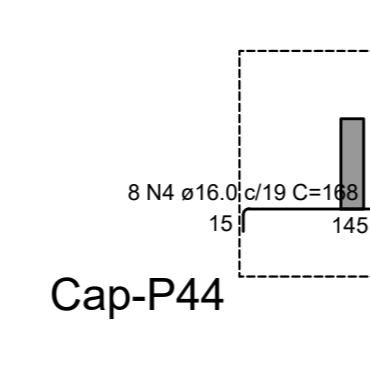
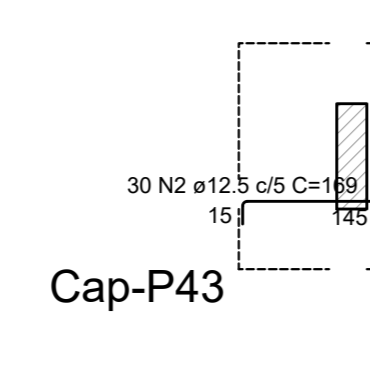
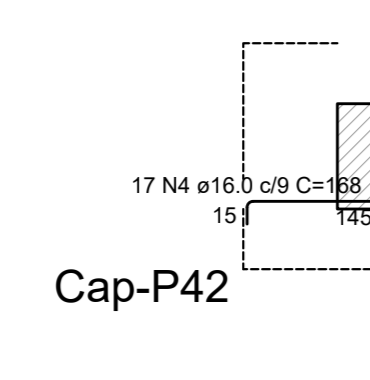
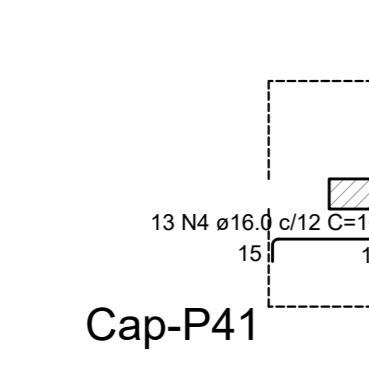
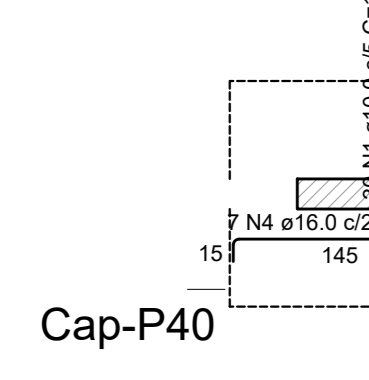
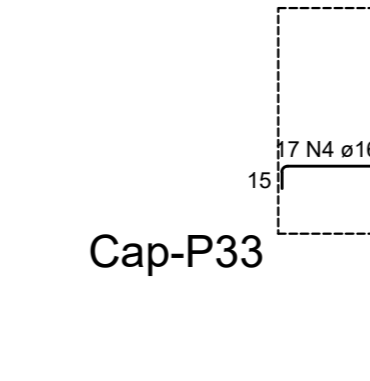
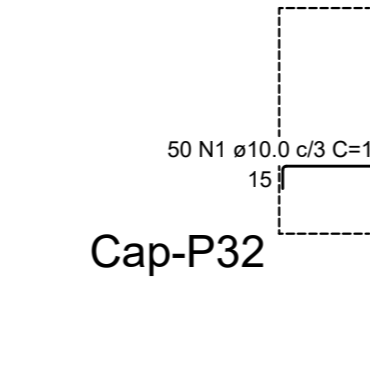
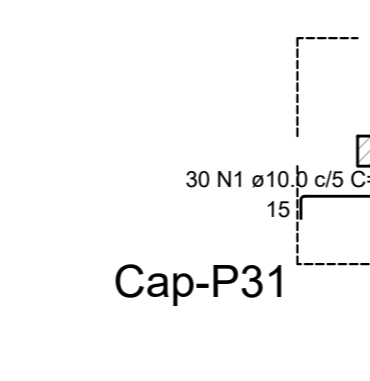
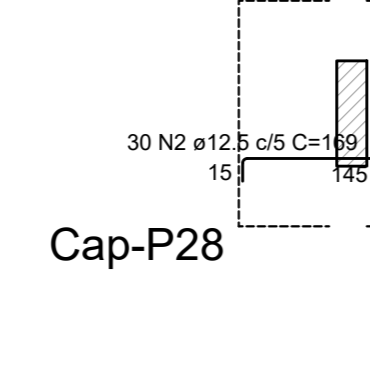
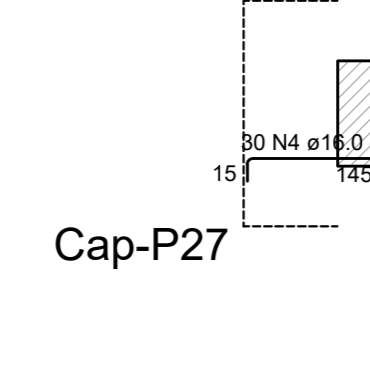
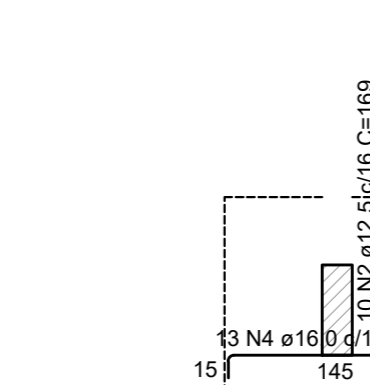
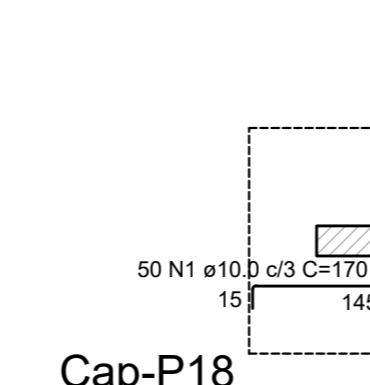
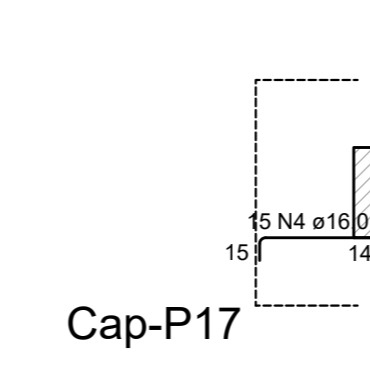
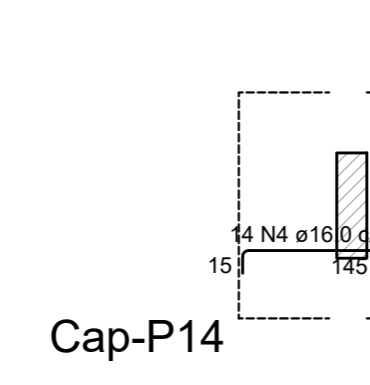
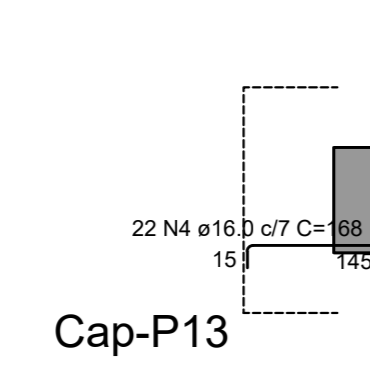
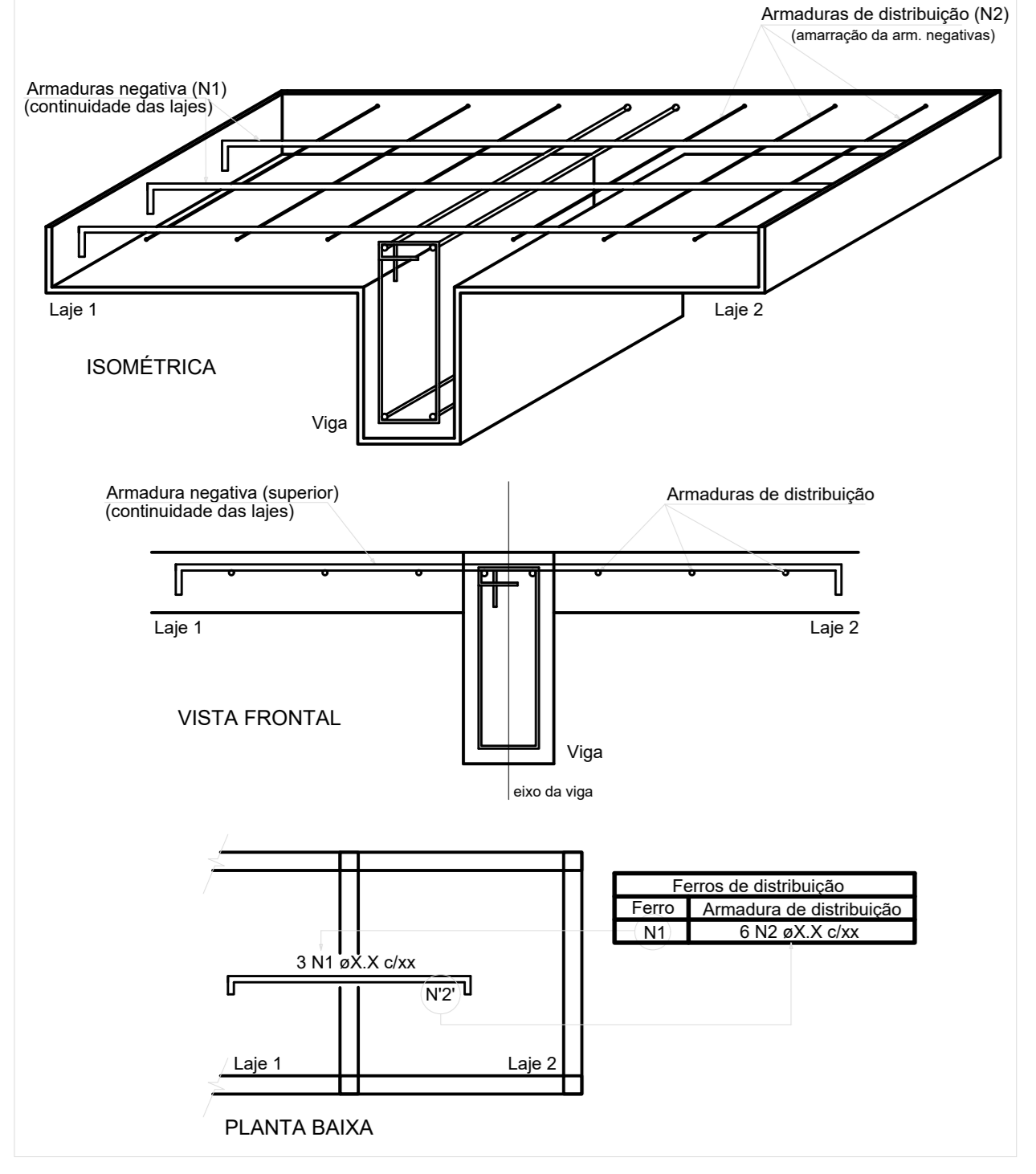


Armaduras de distribuição

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N23	25 N4 a10.0 C-104
N24	11 N4 a10.0 C-104
N25	17 N5 a10.0 C-104
N26	12 N6 a10.0 C-104
N27	12 N7 a10.0 C-104
N28	16 N8 a10.0 C-104
N29	13 N9 a10.0 C-104
N30	16 N10 a10.0 C-104
N31	15 N11 a10.0 C-104
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N33	15 N13 a10.0 C-104
N34	15 N14 a10.0 C-104
N35	15 N15 a10.0 C-104
N36	15 N16 a10.0 C-104
N37	15 N17 a10.0 C-104
N38	15 N18 a10.0 C-104
N39	15 N19 a10.0 C-104
N40	15 N20 a10.0 C-104
N41	15 N21 a10.0 C-104
N42	15 N22 a10.0 C-104
N43	15 N23 a10.0 C-104
N44	15 N24 a10.0 C-104
N45	15 N25 a10.0 C-104
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N47	15 N27 a10.0 C-104
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N222	15 N202 a10.0 C-104
N223	15 N203 a10.0 C-104
N224	15 N204 a10.0 C-104
N225	15 N205 a10.0 C-104
N226	15 N206 a10.0 C-104
N227	15 N207 a10.0 C-104
N228	15 N208 a10.0 C-104
N229	15 N209 a10.0 C-104
N230	15 N210 a10.0 C-104
N231	15 N211 a10.0 C-104
N232	15 N212 a10.0 C-104
N233	15 N213 a10.0 C-104
N234	15 N214 a10.0 C-104
N235	15 N215 a10.0 C-104
N236	15 N216 a10.0 C-104
N237	15 N217 a10.0 C-104
N238	15 N218 a10.0 C-104
N239	15 N219 a10.0 C-104
N240	15 N220 a10.0 C-104
N241	15 N221 a10.0 C-104
N242	15 N222 a10.0 C-104
N243	15 N223 a10.0 C-104
N244	15 N224 a10.0 C-104
N245	15 N225 a10.0 C-104
N246	15 N226 a10.0 C-104
N247	15 N227 a10.0 C-104
N248	15 N228 a10.0 C-104
N249	15 N229 a10.0 C-104
N250	15 N230 a10.0 C-104
N251	15 N231 a10.0 C-104
N252	15 N232 a10.0 C-104
N253	15 N233 a10.0 C-104
N254	15 N234 a10.0 C-104
N255	15 N235 a10.0 C-104
N256	15 N236 a10.0 C-104
N257	15 N237 a10.0 C-104
N258	15 N238 a10.0 C-104
N259	15 N239 a10.0 C-104
N260	15 N240 a10.0 C-104
N261	15 N241 a10.0 C-104
N262	15 N242 a10.0 C-104
N263	15 N243 a10.0 C-104
N264	15 N244 a10.0 C-104
N265	15 N245 a10.0 C-104
N266	15 N246 a10.0 C-104
N267	15 N247 a10.0 C-104
N268	15 N248 a10.0 C-104
N269	15 N249 a10.0 C-104
N270	15 N250 a10.0 C-104
N271	15 N251 a10.0 C-104
N272	15 N252 a10.0 C-104
N273	15 N253 a10.0 C-104
N274	15 N254 a10.0 C-104
N275	15 N255 a10.0 C-104
N276	15 N256 a10.0 C-104
N277	15 N257 a10.0 C-104
N278	15 N258 a10.0 C-104
N279	15 N259 a10.0 C-104
N280	15 N260 a10.0 C-104
N281	15 N261 a10.0 C-104
N282	15 N262 a10.0 C-104
N283	15 N263 a10.0 C-104
N284	15 N264 a10.0 C-104
N285	15 N265 a10.0 C-104
N286	15 N266 a10.0 C-104
N287	15 N267 a10.0 C-104
N288	15 N268 a10.0 C-104
N289	15 N269 a10.0 C-104
N290	15 N270 a10.0 C-104
N291	15 N271 a10.0 C-104
N292	15 N272 a10.0 C-104
N293	15 N273 a10.0 C-104
N294	15 N274 a10.0 C-104
N295	15 N275 a10.0 C-104
N296	15 N276 a10.0 C-104
N297	15 N277 a10.0 C-104
N298	15 N278 a10.0 C-104
N299	15 N279 a10.0 C-104
N300	15 N280 a10.0 C-104

Armação Negativa das Lajes do Pavimento 1º Pav. (Eixo X)

DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



RELAÇÃO DO AÇO

ACQ	TR	DMAX	QUANT	C TOTAL	C TOTAL
CA80	10	100	200	200	200
CA80	10	100	200	200	200
CA80	10	100	200	200	200

RESUMO DO AÇO

ACQ	DMAX	C TOTAL	PESO x 100%
CA80	10	200	200
CA80	10	200	200
CA80	10	200	200

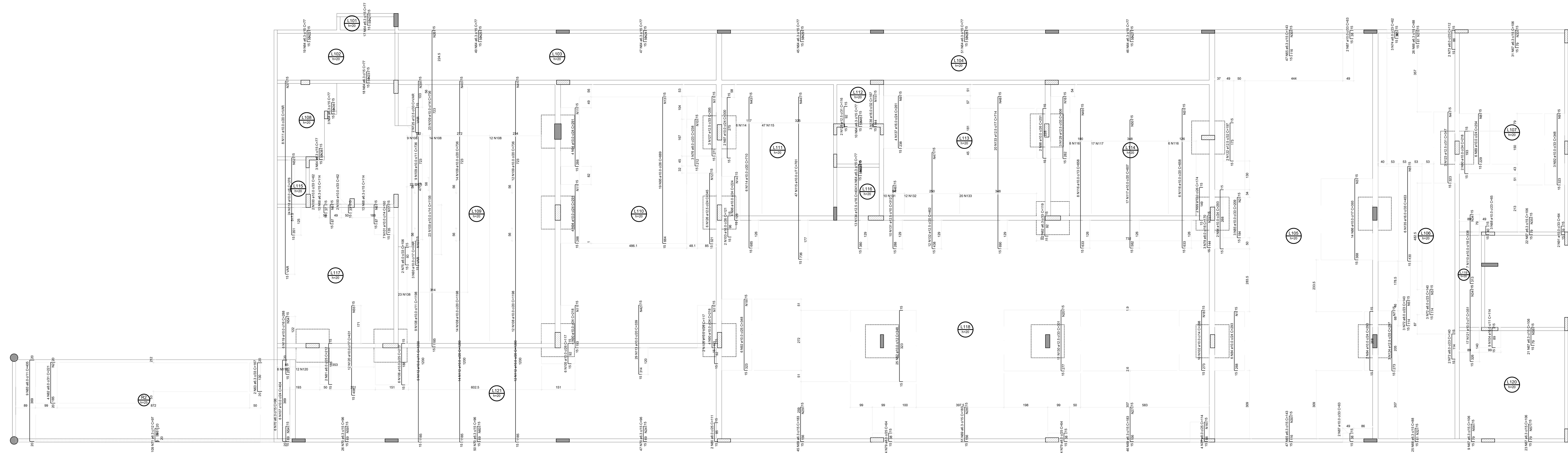
Revisões da prancha

Nº	Descrição	Data
1	Elaboração	22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401-D-DF  
 RESP. TÉCNICO

Armação Negativa das Regiões Maciças do Pavimento 1º Pav.

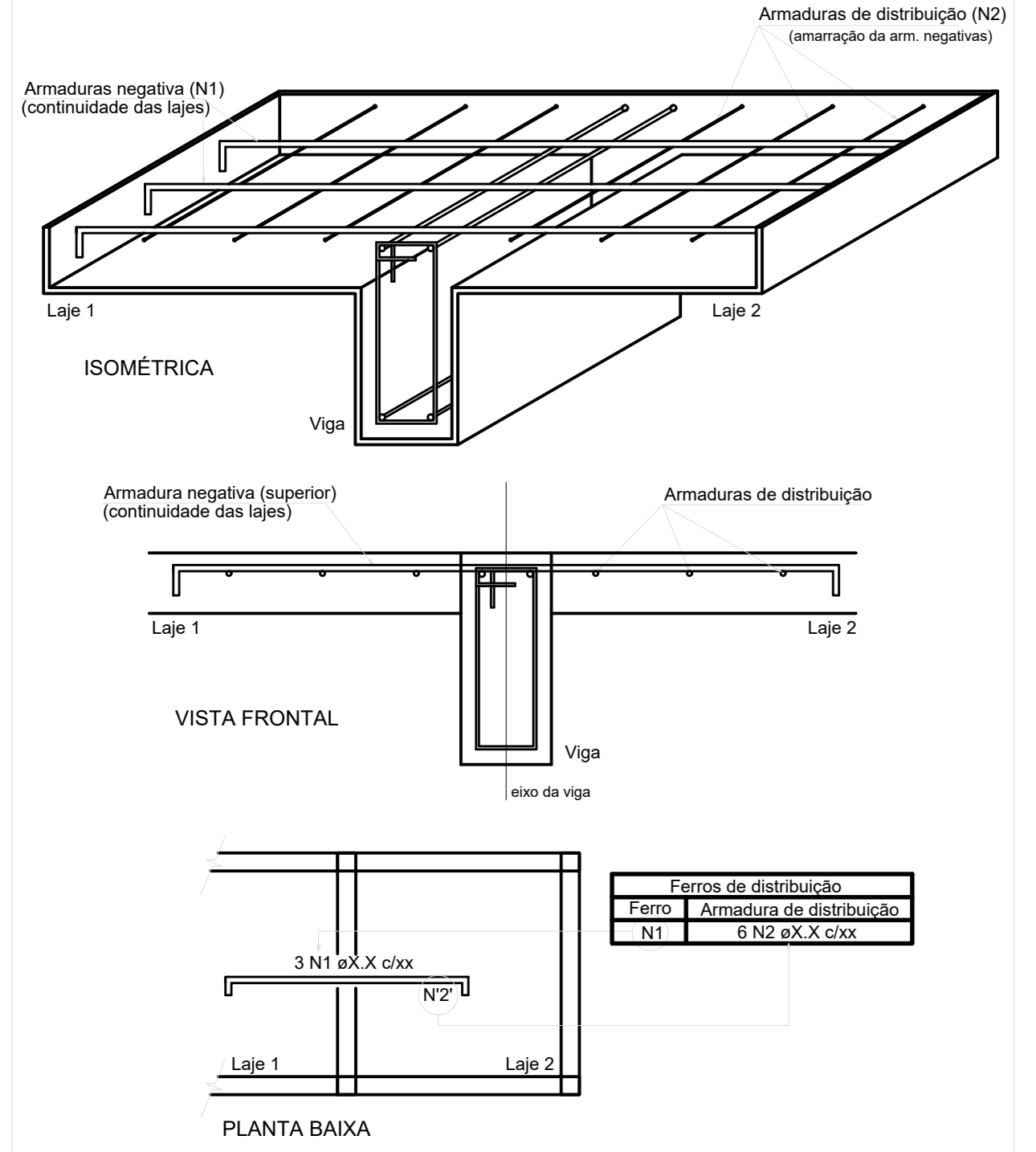


**Armaduras de distribuição**

Armadura	Armaduras de distribuição
N100	21 N10 0,013 C-100
N101	15 N2 0,013 C-100
N102	29 N1 0,013 C-104
N103	25 N4 0,013 C-109
N104	9 N2 0,013 C-103
N105	33 N4 0,013 C-109
N106	9 N2 0,013 C-103
N107	21 N7 0,013 C-103
N108	3 N2 0,013 C-103
N109	18 N4 0,013 C-108
N110	22 N1 0,013 C-104
N111	21 N7 0,013 C-103
N112	15 N11 0,013 C-108
N113	21 N11 0,013 C-108
N114	15 N11 0,013 C-108
N115	25 N11 0,013 C-108
N116	15 N11 0,013 C-108
N117	17 N11 0,013 C-108
N118	17 N11 0,013 C-108
N119	51 N11 0,013 C-108
N120	15 N11 0,013 C-108
N121	11 N11 0,013 C-108
N122	22 N11 0,013 C-108
N123	11 N11 0,013 C-108
N124	22 N11 0,013 C-108
N125	11 N11 0,013 C-108
N126	22 N11 0,013 C-108
N127	11 N11 0,013 C-108
N128	22 N11 0,013 C-108
N129	11 N11 0,013 C-108
N130	22 N11 0,013 C-108
N131	11 N11 0,013 C-108
N132	22 N11 0,013 C-108
N133	11 N11 0,013 C-108
N134	22 N11 0,013 C-108
N135	11 N11 0,013 C-108
N136	22 N11 0,013 C-108
N137	11 N11 0,013 C-108
N138	22 N11 0,013 C-108
N139	11 N11 0,013 C-108
N140	22 N11 0,013 C-108
N141	11 N11 0,013 C-108
N142	22 N11 0,013 C-108
N143	11 N11 0,013 C-108
N144	22 N11 0,013 C-108
N145	11 N11 0,013 C-108
N146	22 N11 0,013 C-108
N147	11 N11 0,013 C-108
N148	22 N11 0,013 C-108
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N150	22 N11 0,013 C-108
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N158	22 N11 0,013 C-108
N159	11 N11 0,013 C-108
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N162	22 N11 0,013 C-108
N163	11 N11 0,013 C-108
N164	22 N11 0,013 C-108
N165	11 N11 0,013 C-108
N166	22 N11 0,013 C-108
N167	11 N11 0,013 C-108
N168	22 N11 0,013 C-108
N169	11 N11 0,013 C-108
N170	22 N11 0,013 C-108
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N174	22 N11 0,013 C-108
N175	11 N11 0,013 C-108
N176	22 N11 0,013 C-108
N177	11 N11 0,013 C-108
N178	22 N11 0,013 C-108
N179	11 N11 0,013 C-108
N180	22 N11 0,013 C-108
N181	11 N11 0,013 C-108
N182	22 N11 0,013 C-108
N183	11 N11 0,013 C-108
N184	22 N11 0,013 C-108
N185	11 N11 0,013 C-108
N186	22 N11 0,013 C-108
N187	11 N11 0,013 C-108
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N190	22 N11 0,013 C-108
N191	11 N11 0,013 C-108
N192	22 N11 0,013 C-108
N193	11 N11 0,013 C-108
N194	22 N11 0,013 C-108
N195	11 N11 0,013 C-108
N196	22 N11 0,013 C-108
N197	11 N11 0,013 C-108
N198	22 N11 0,013 C-108
N199	11 N11 0,013 C-108
N200	22 N11 0,013 C-108

**Armação Negativa das Lajes do Pavimento 1º Pav. (Eixo Y)**  
escala 1:50

**DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO**



**Revisões da prancha**

Nº	Descrição	Data

**Emissão final** LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO

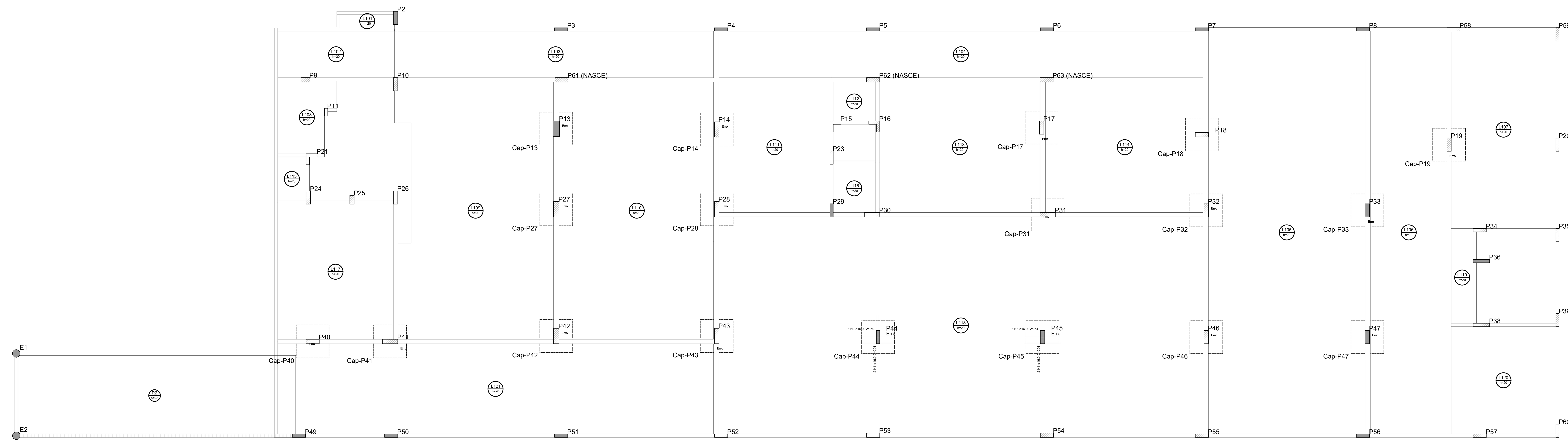
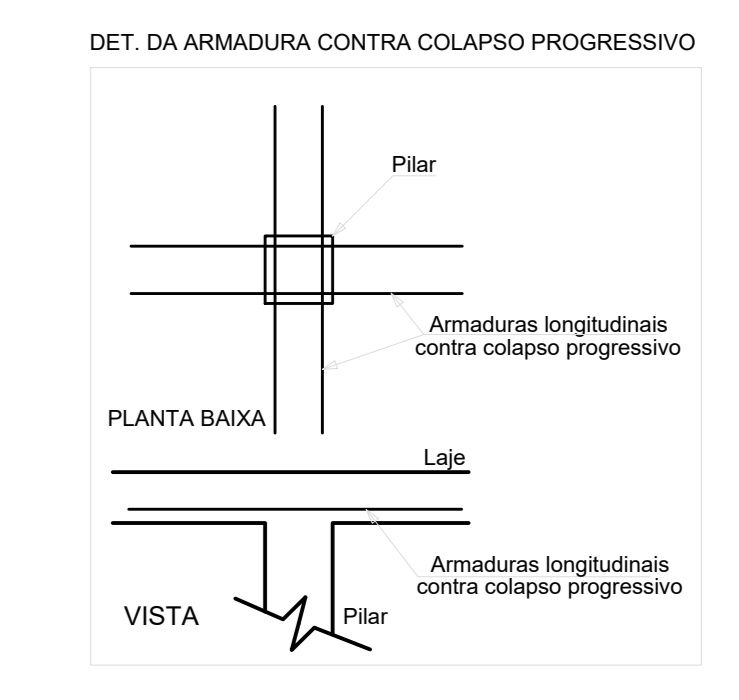
RELATÓRIO DO AÇO - Laje de 1º Pavimento

ACO	Nº	QUANT	CLASSE	DIAM	RESQ	RESQ + 10%
CASO	1	183	A	10	204	214
	2	183	A	10	204	214
	3	183	A	10	204	214

RESUMO DO AÇO

ACO	Nº	QUANT	CLASSE	DIAM	RESQ	RESQ + 10%
CASO	1	183	A	10	204	214
	2	183	A	10	204	214
	3	183	A	10	204	214

Área de concreto (C40) = 0,00 m²  
Área de armação = 0,00 m²



Detalhamento de Punção e Cisalhamento das Lajes do Pavimento 1º Pav. (Nível 0)

Revisões da prancha

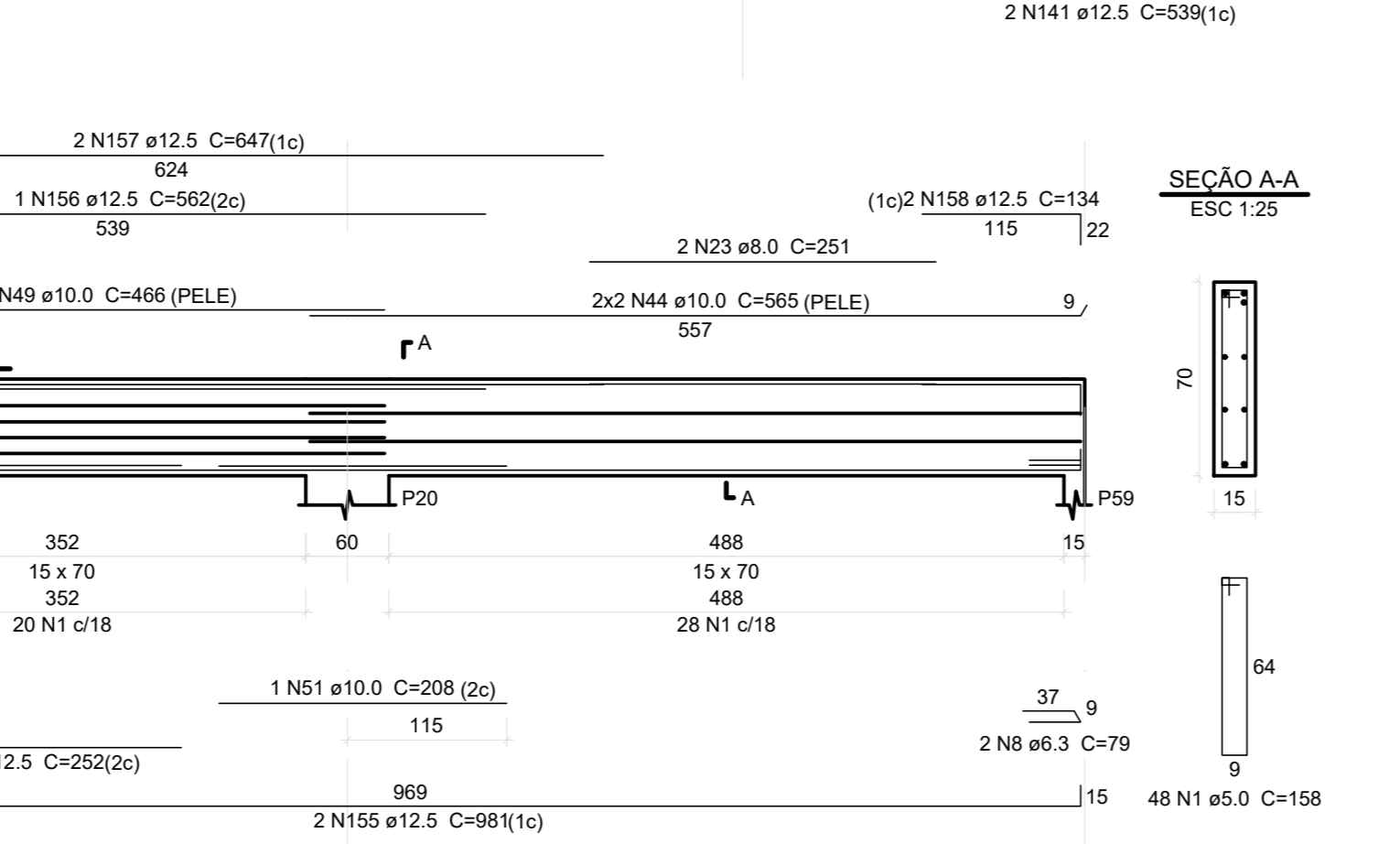
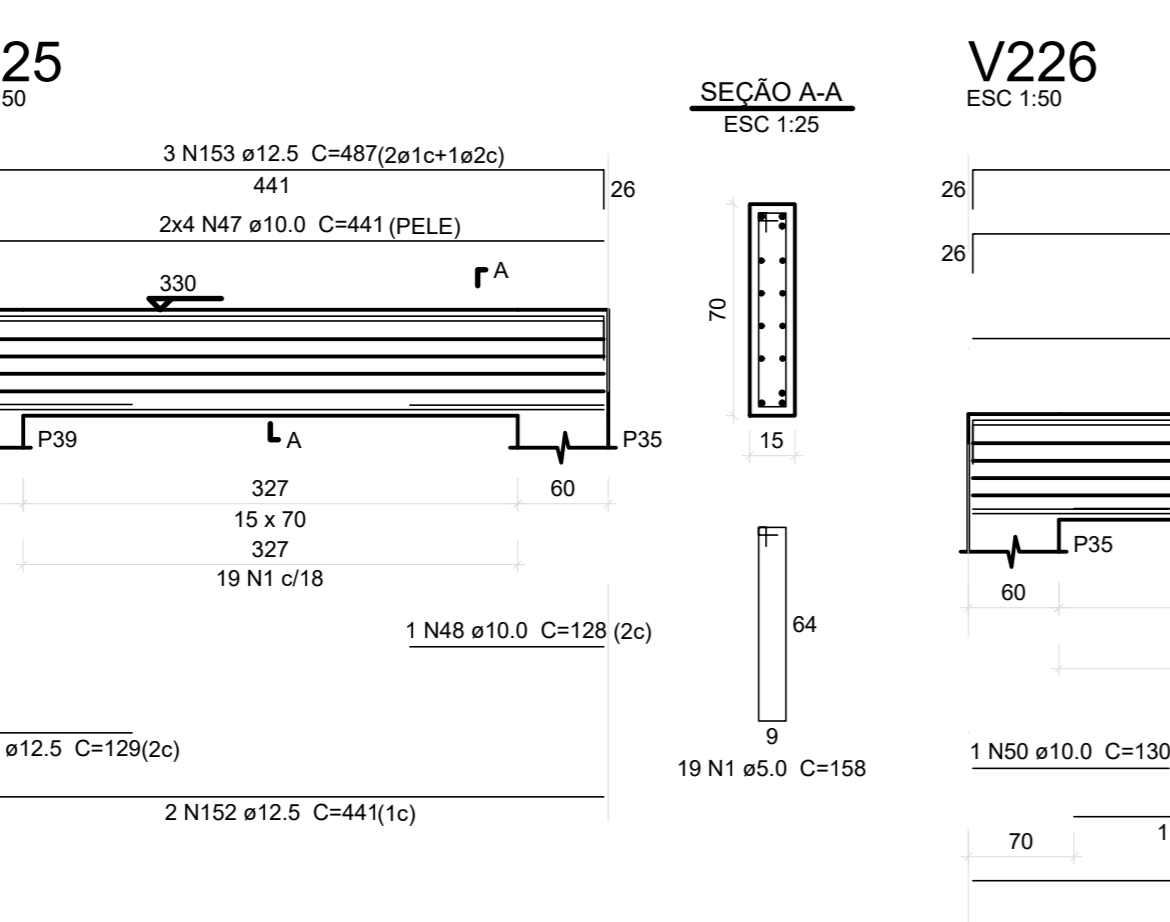
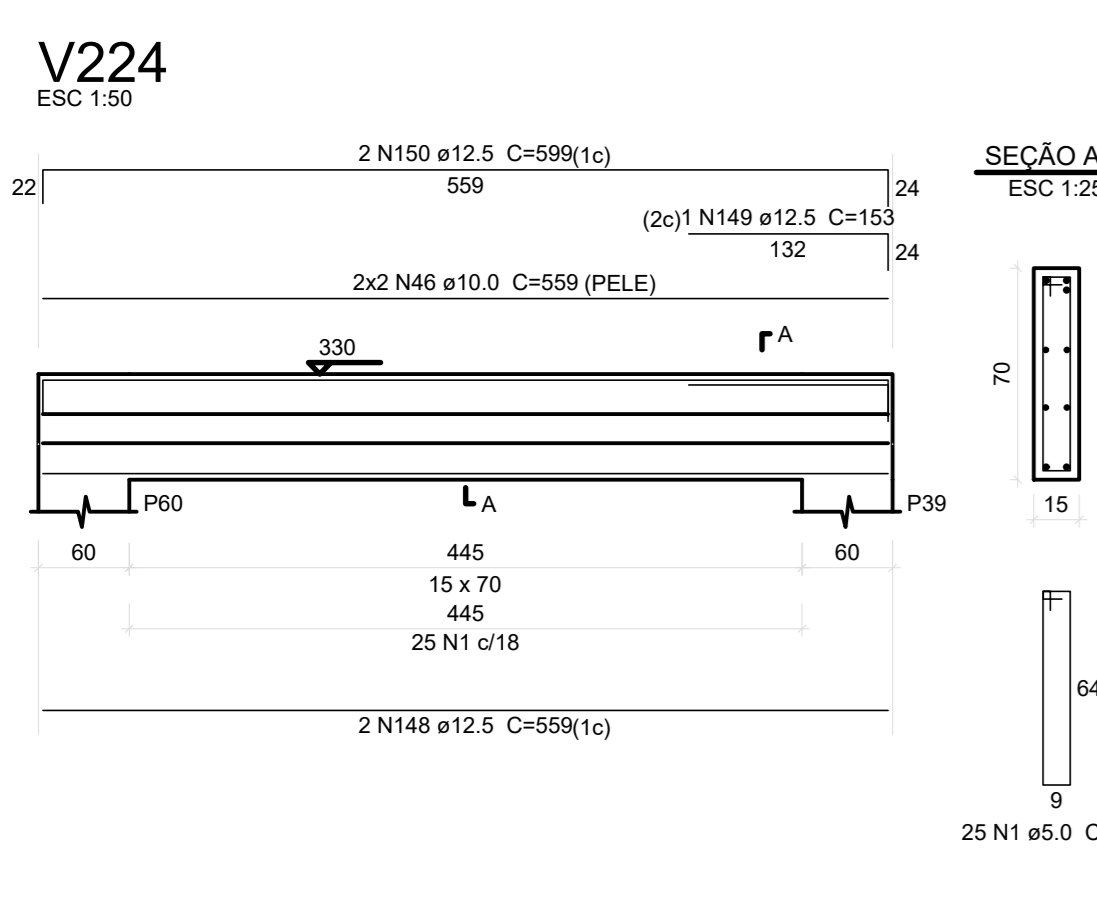
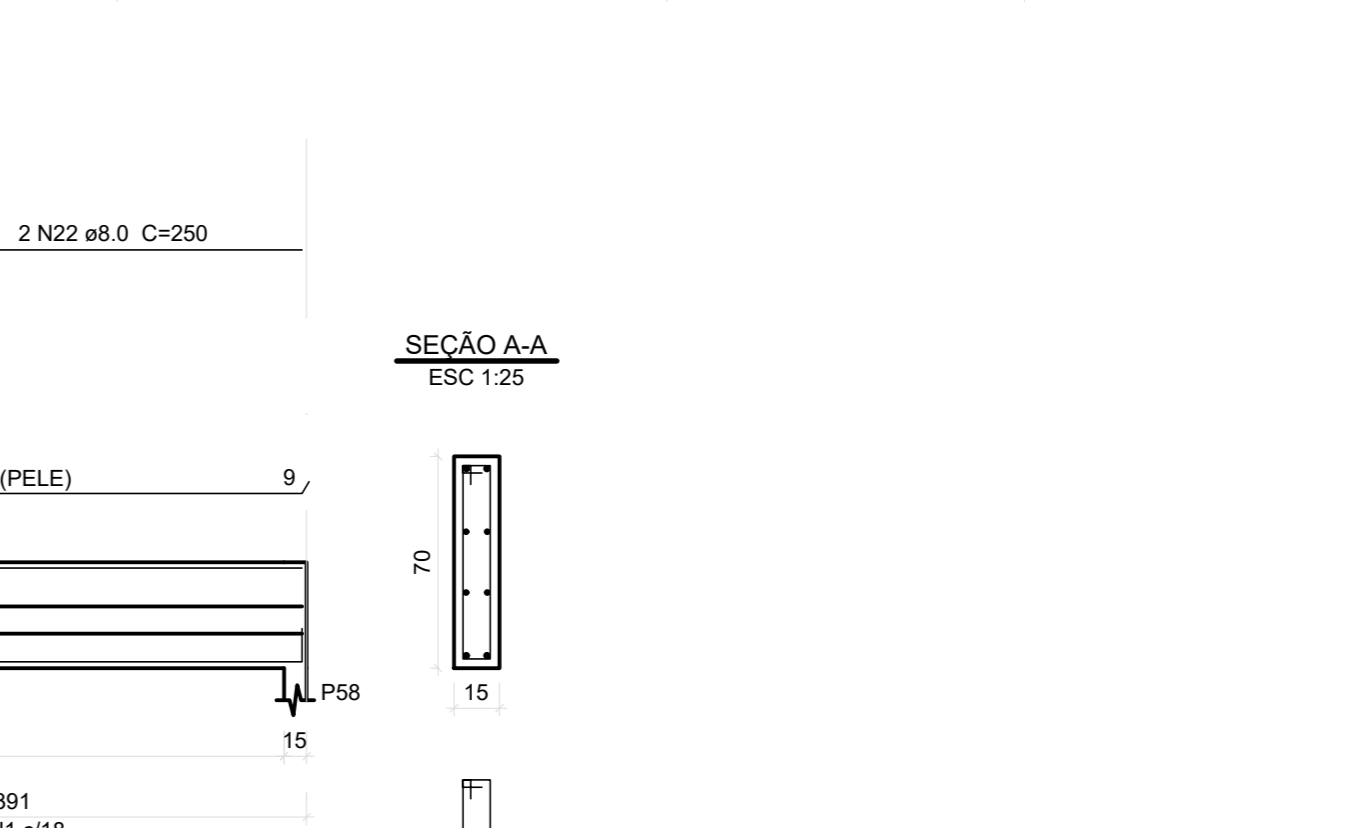
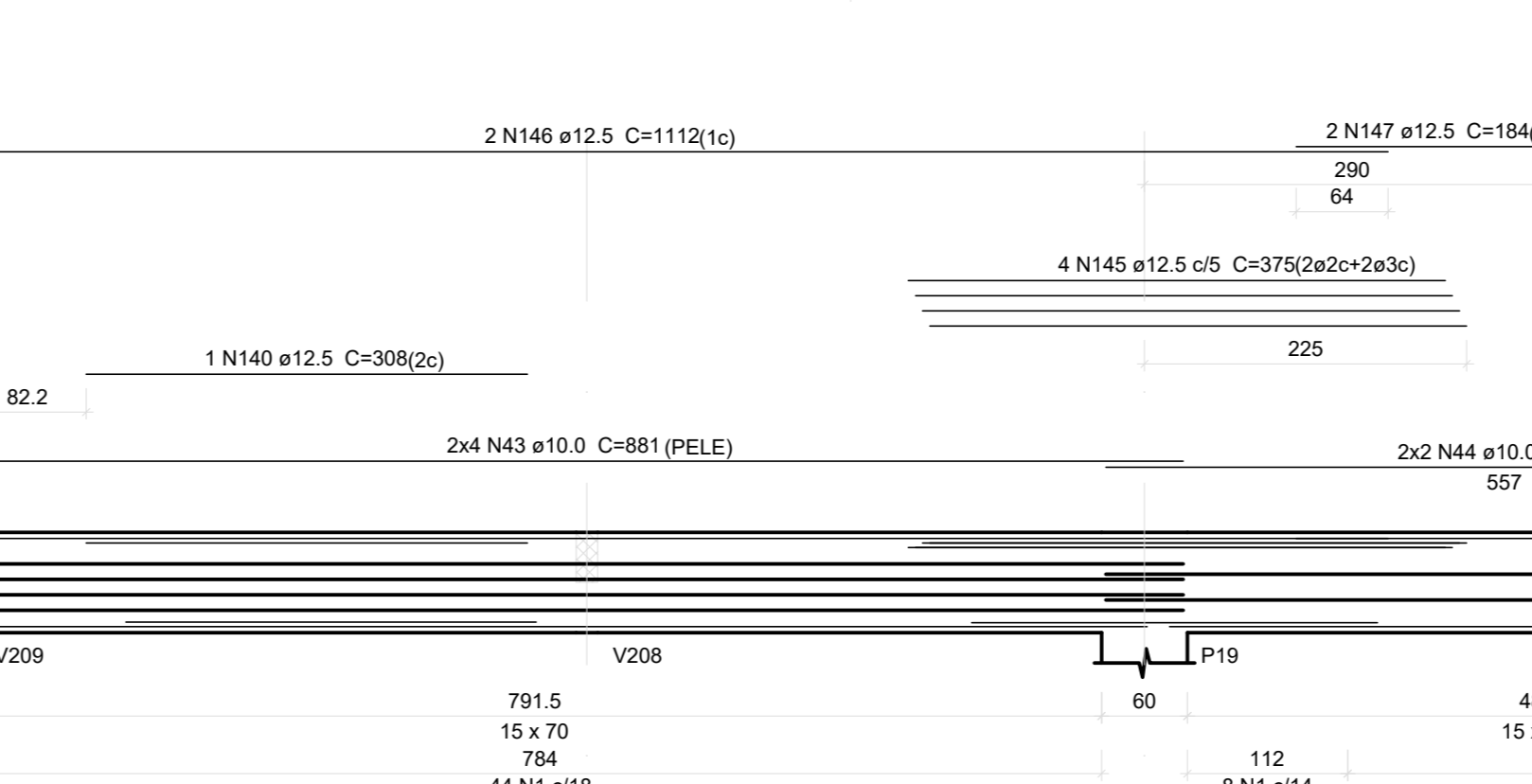
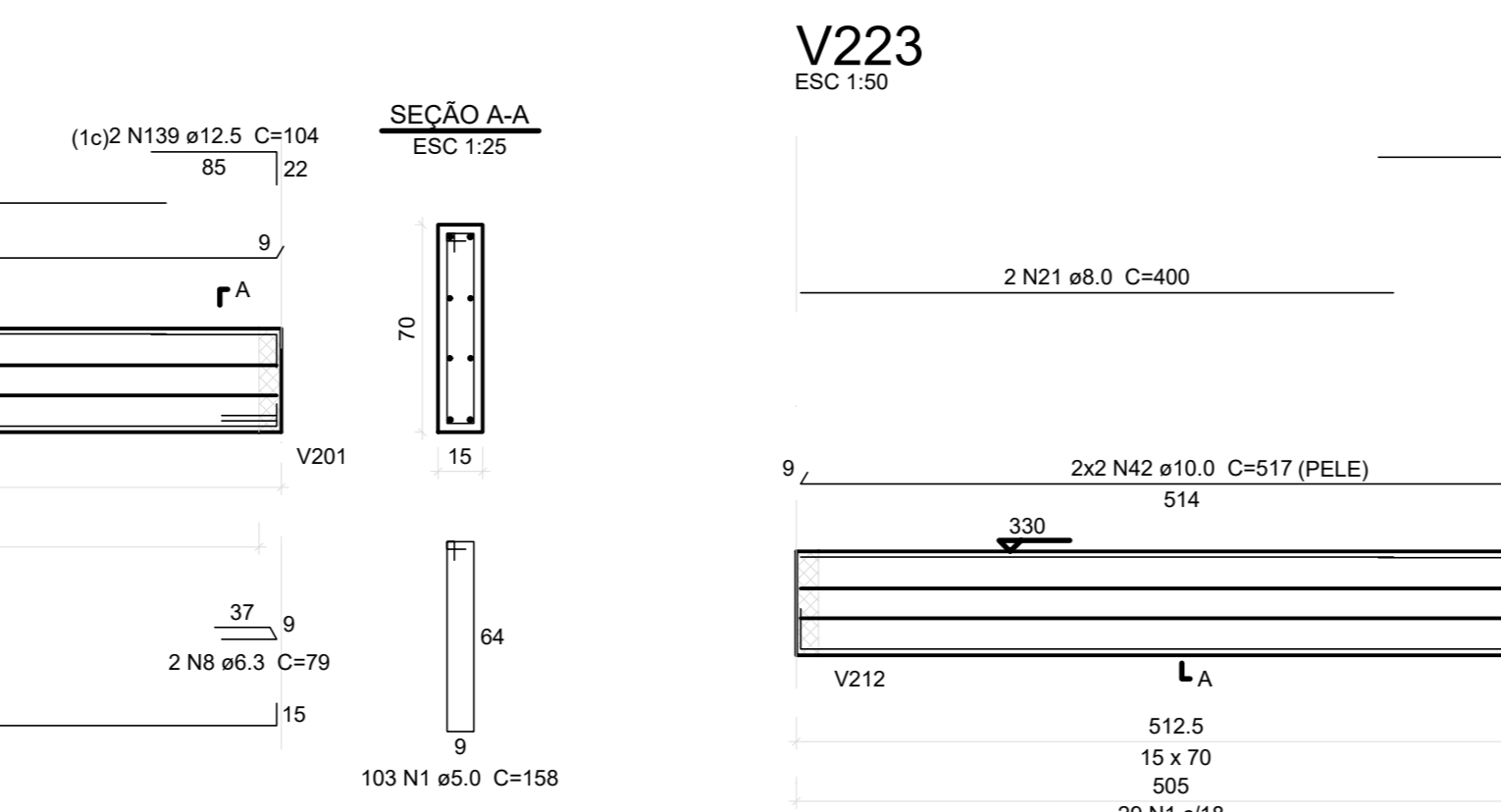
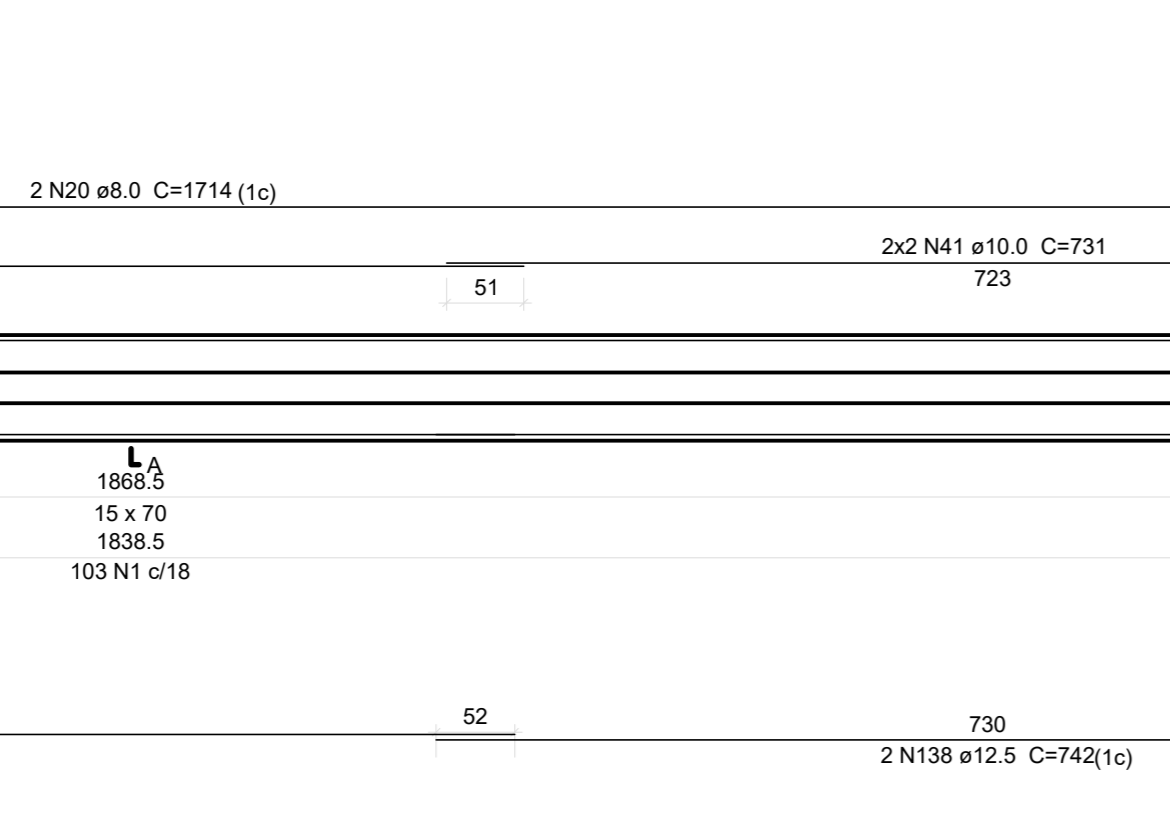
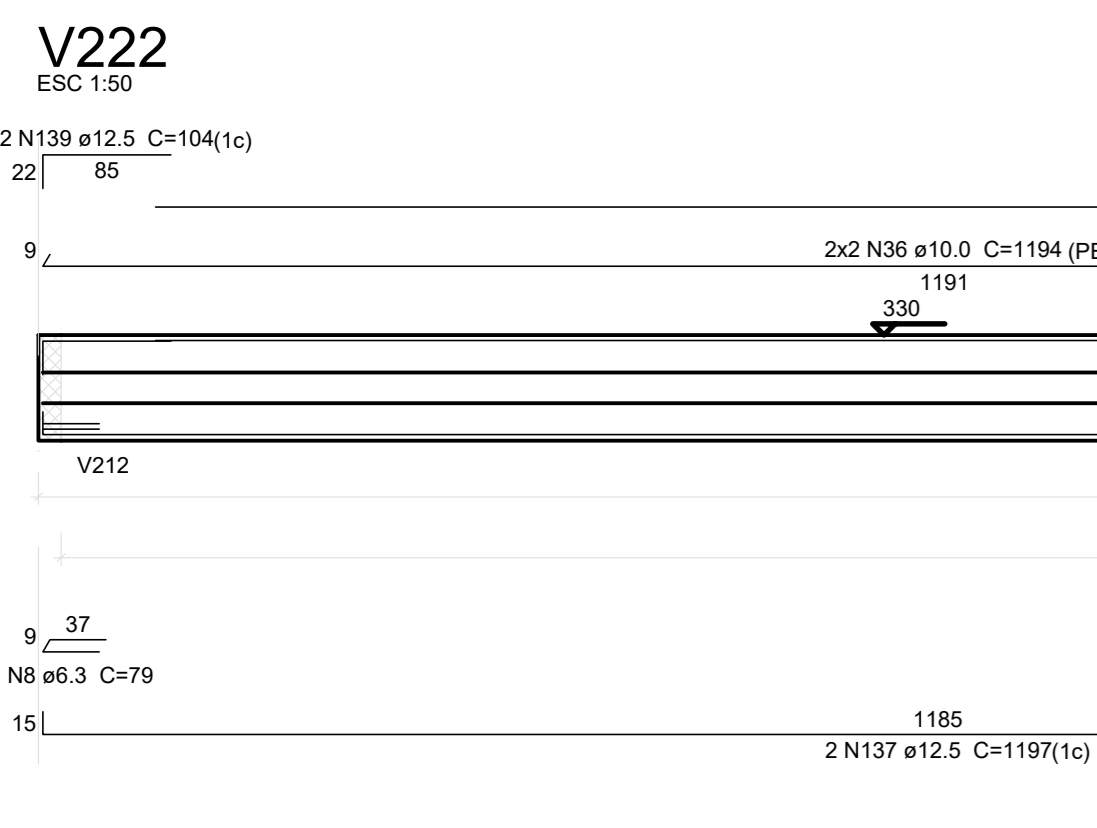
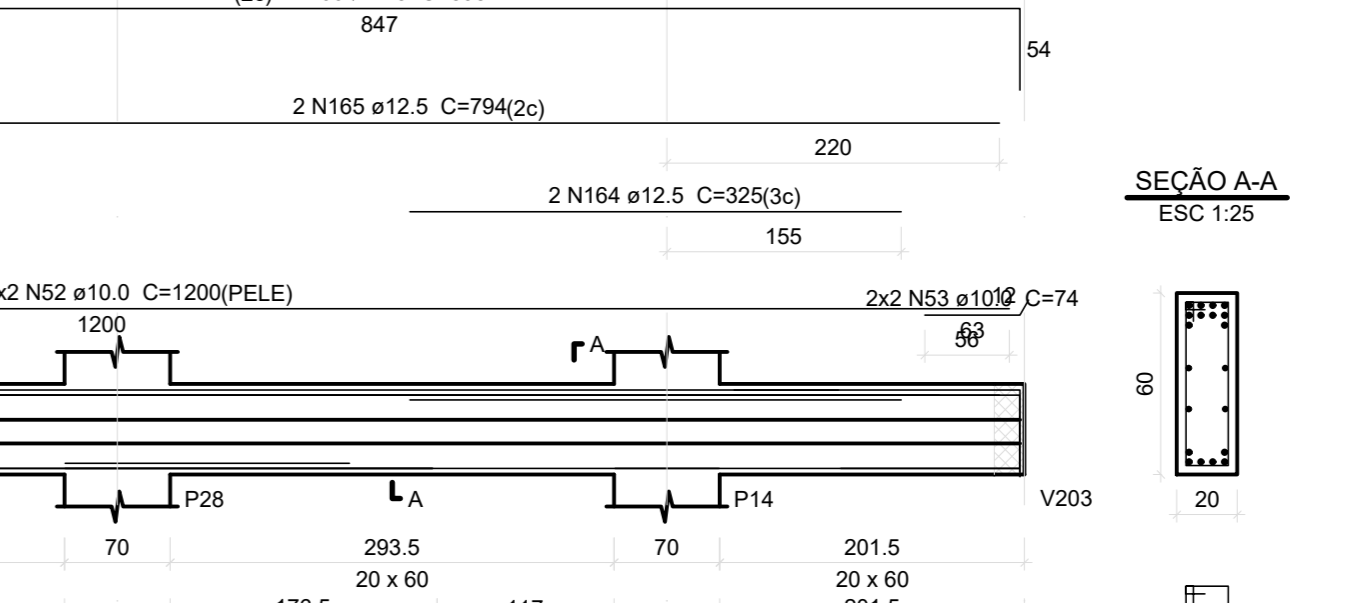
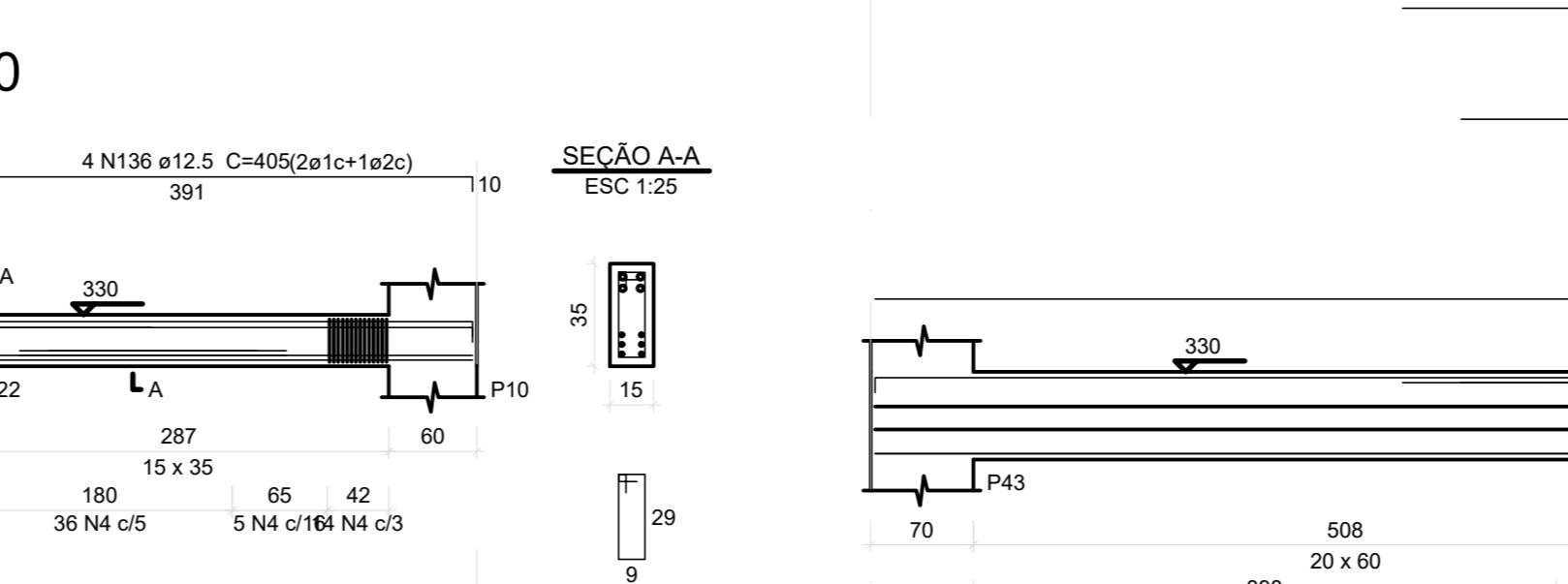
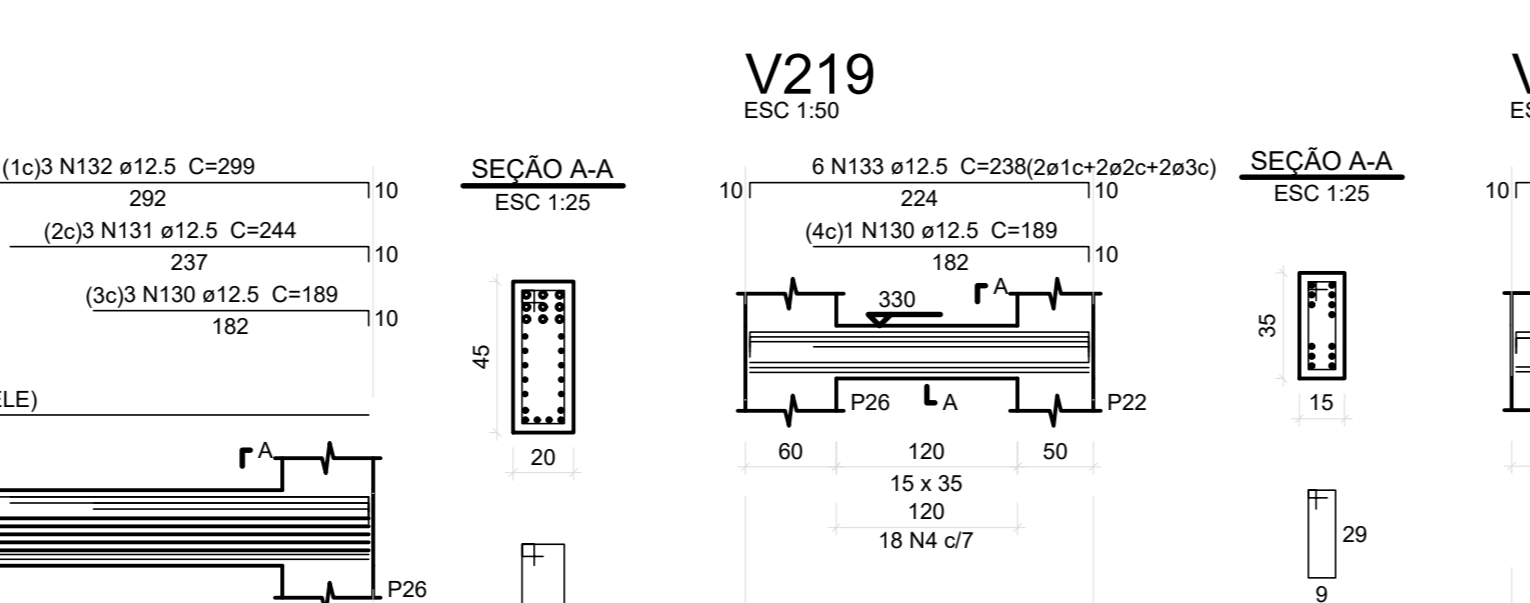
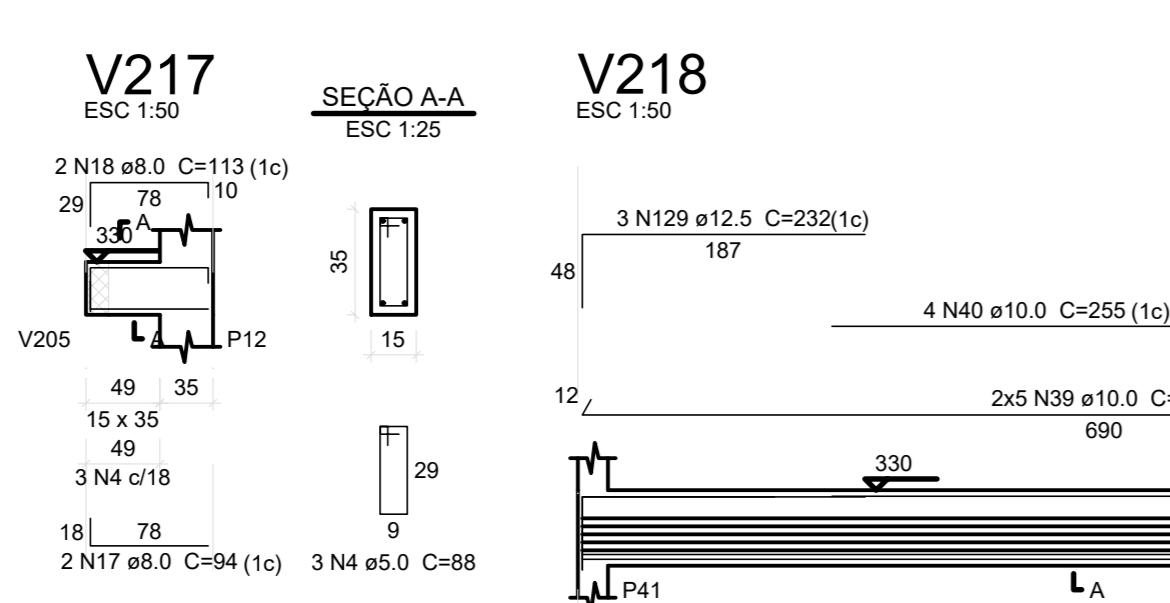
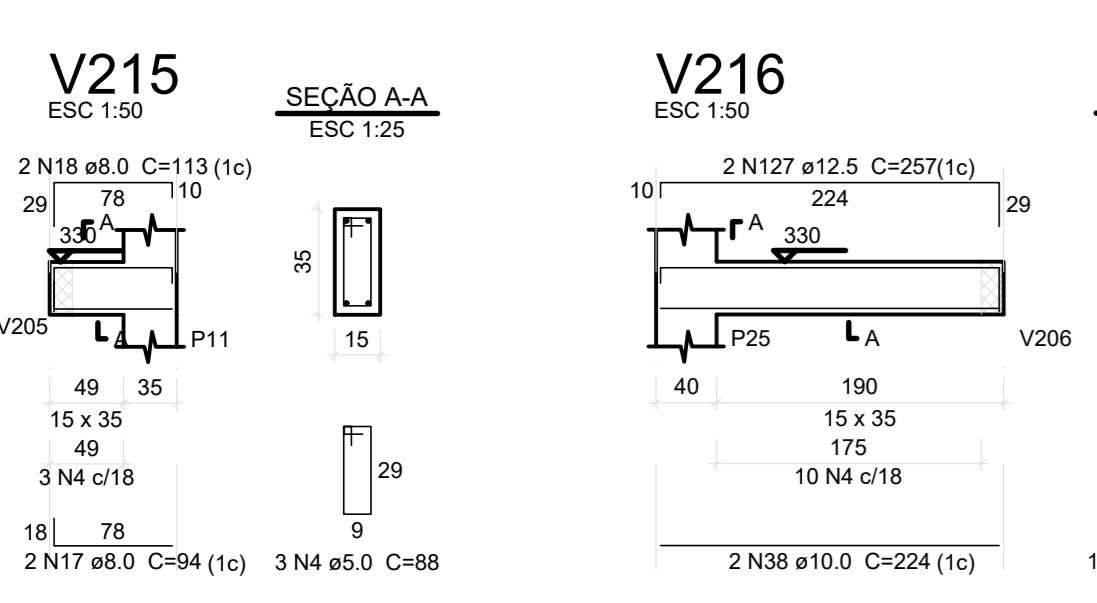
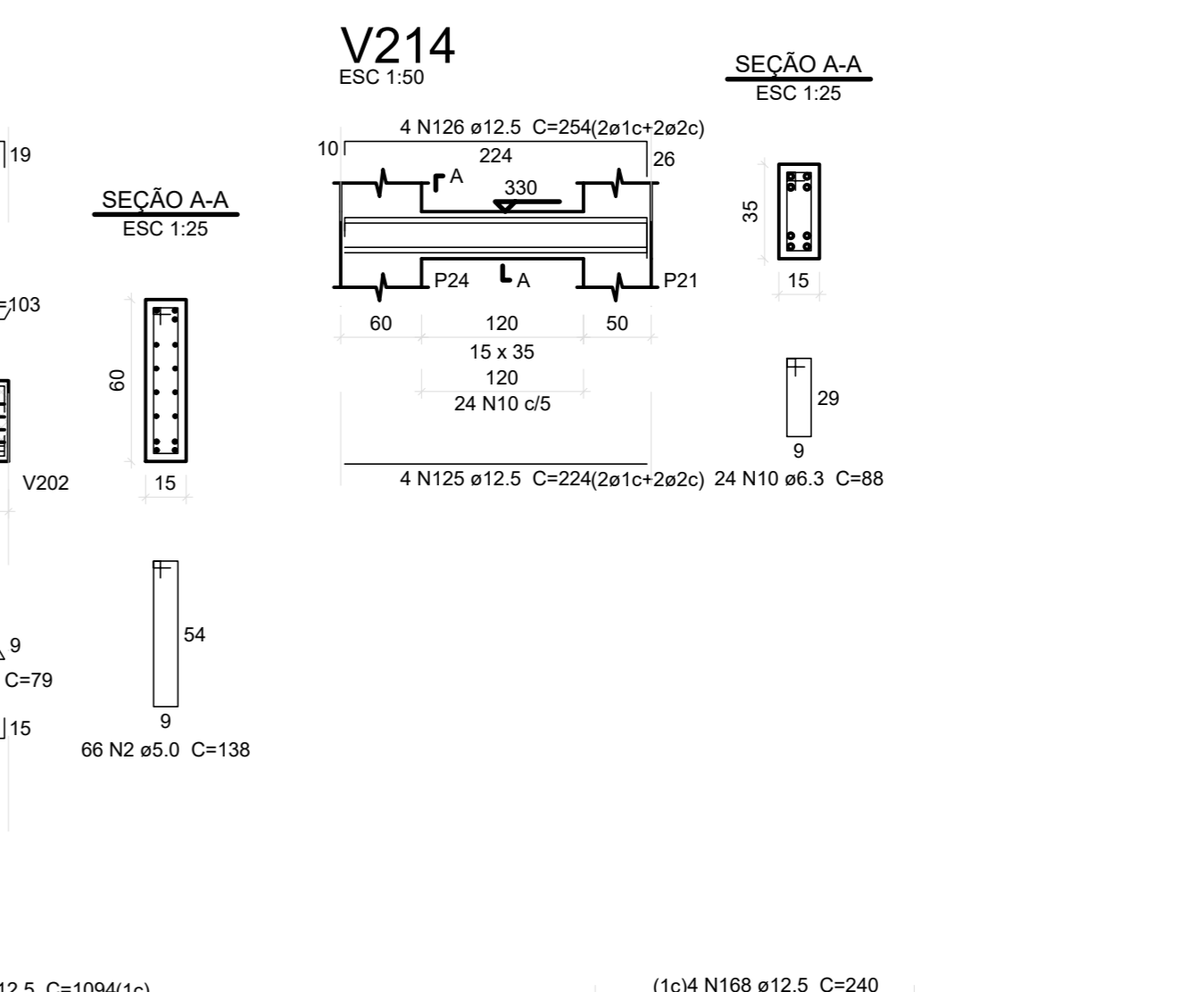
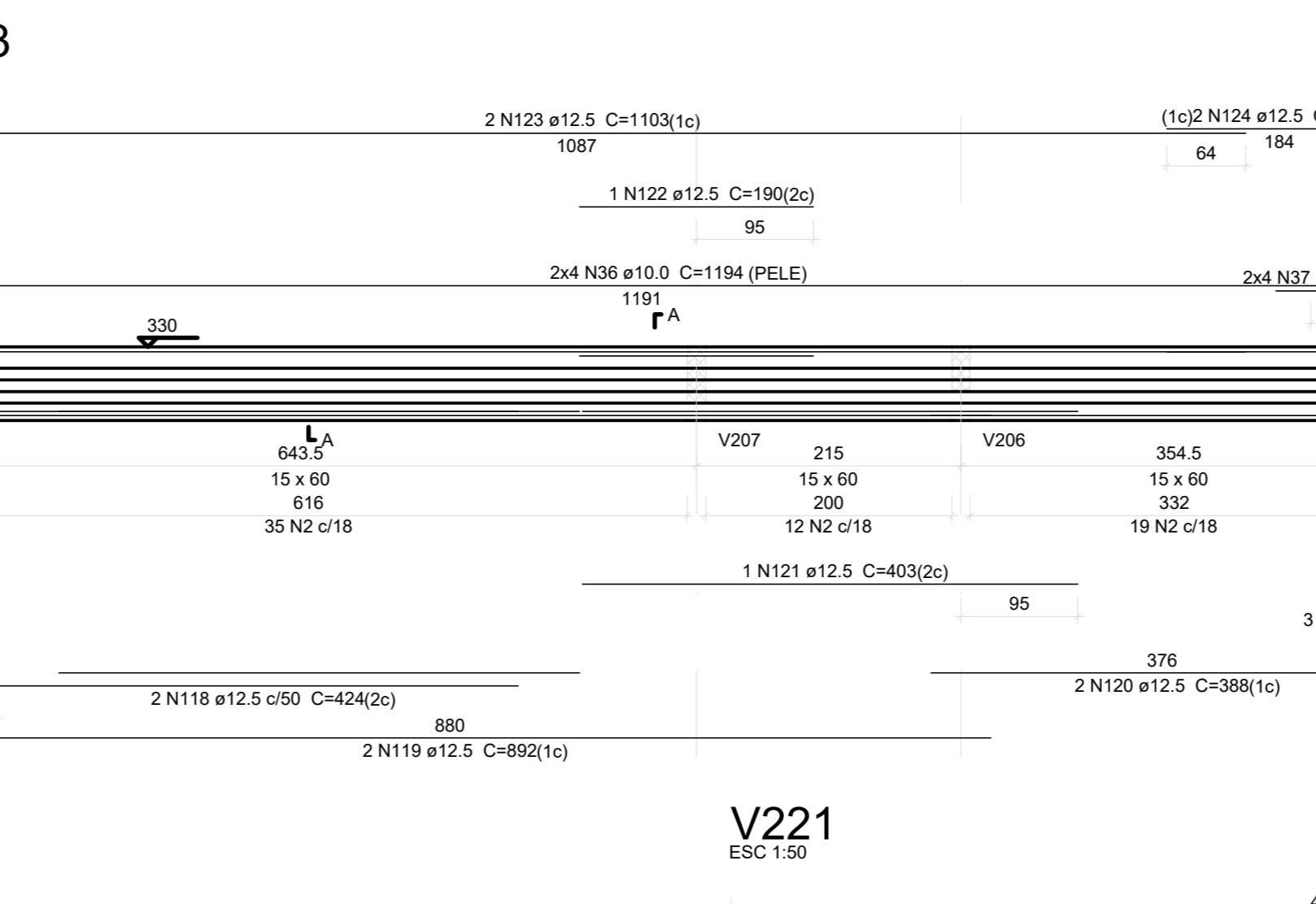
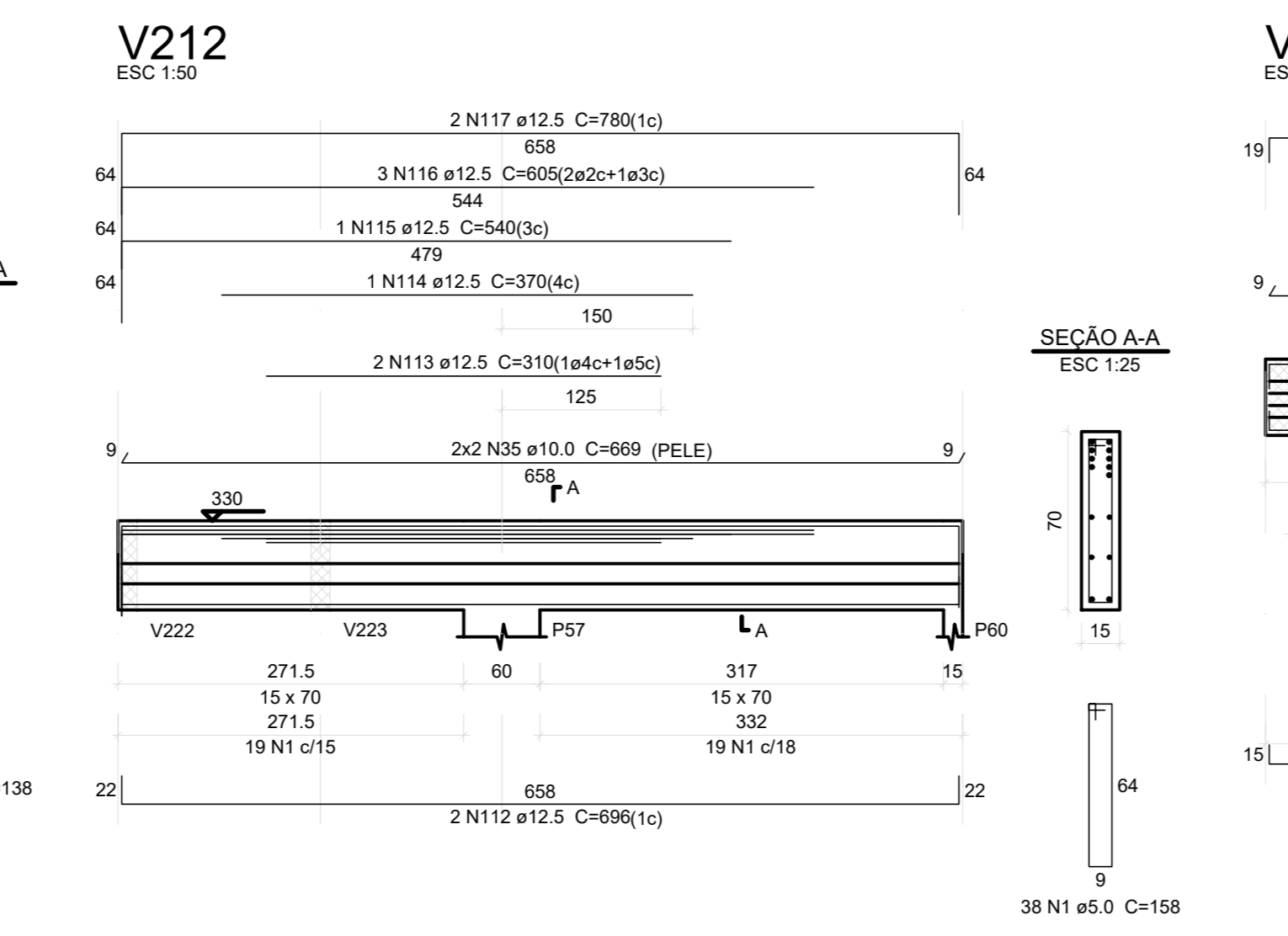
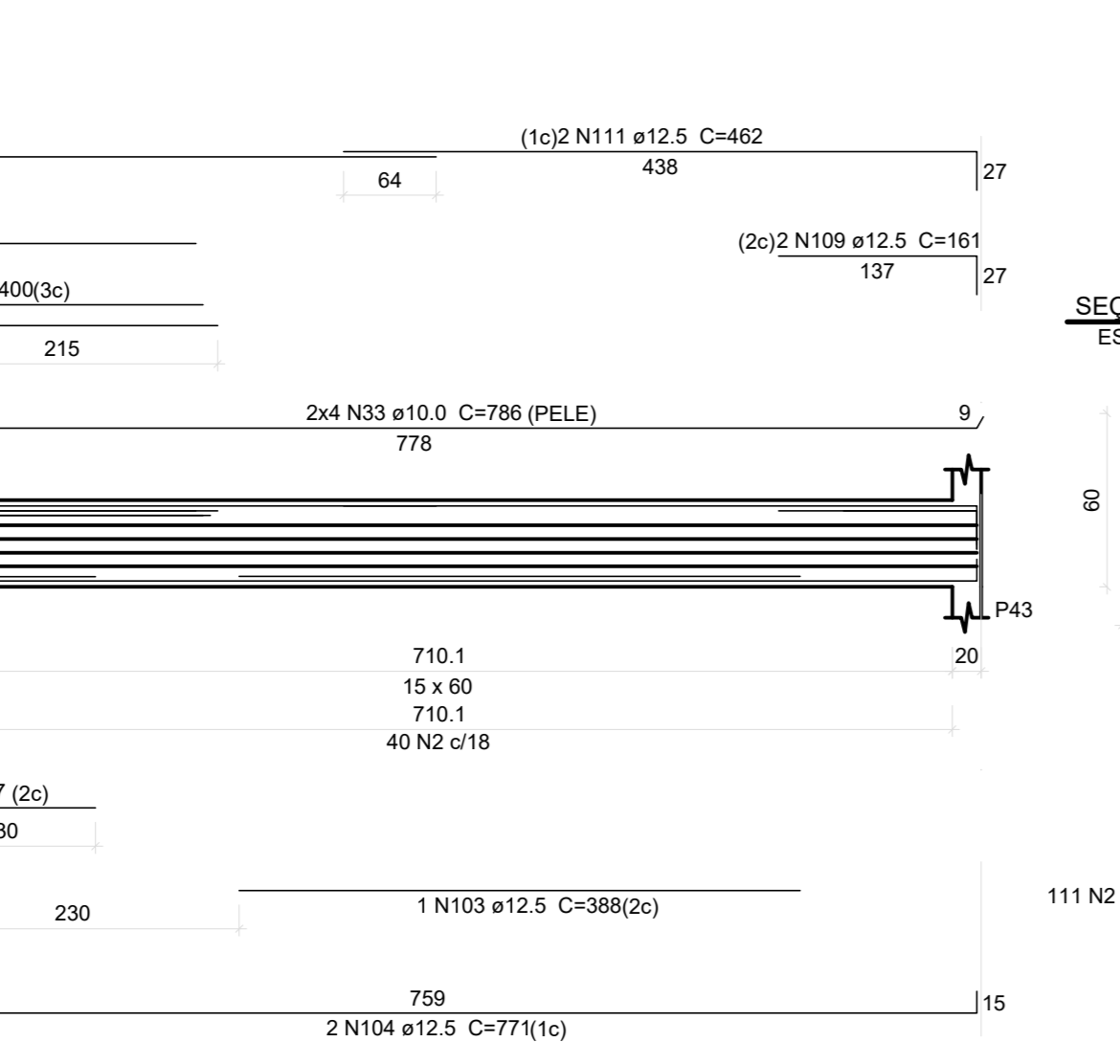
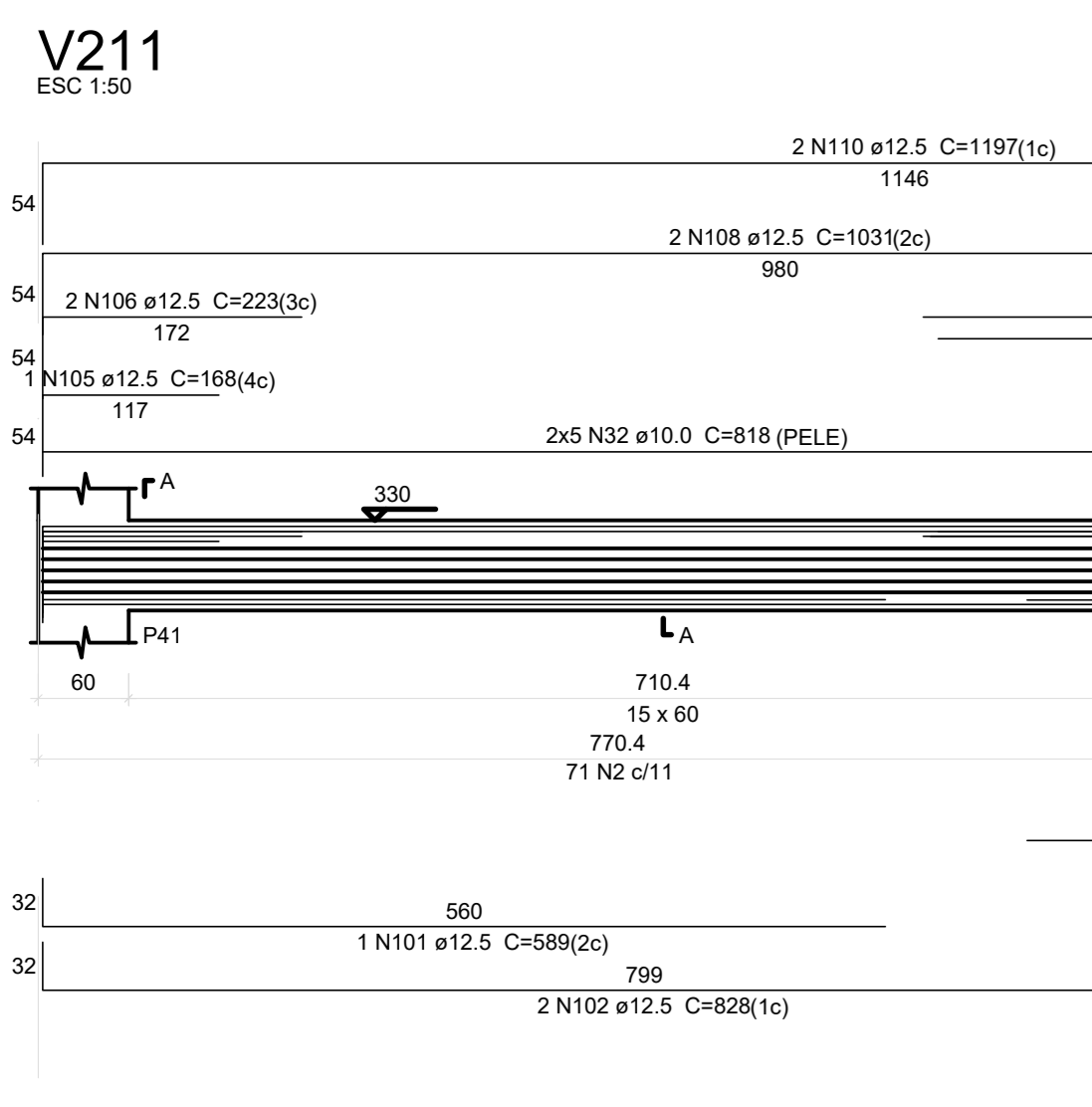
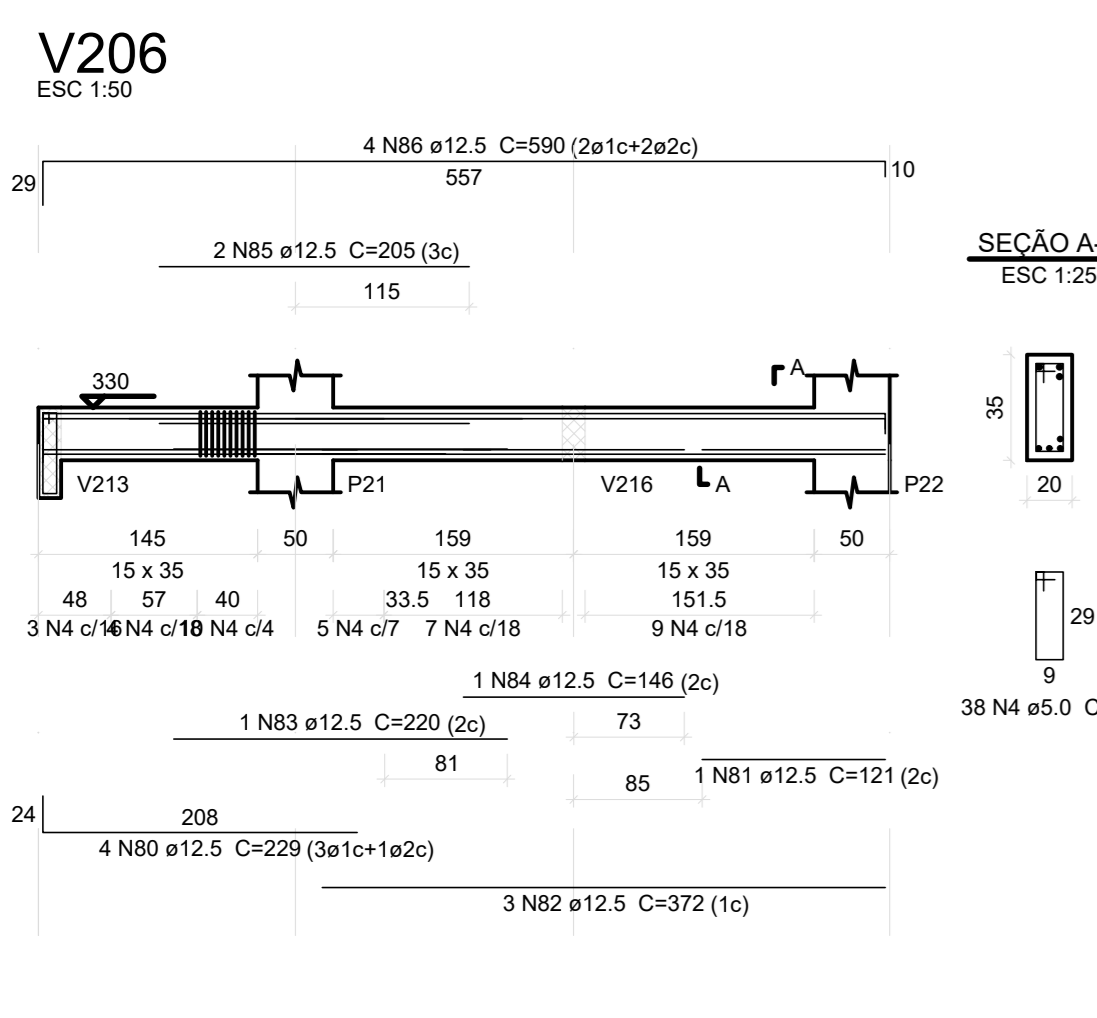
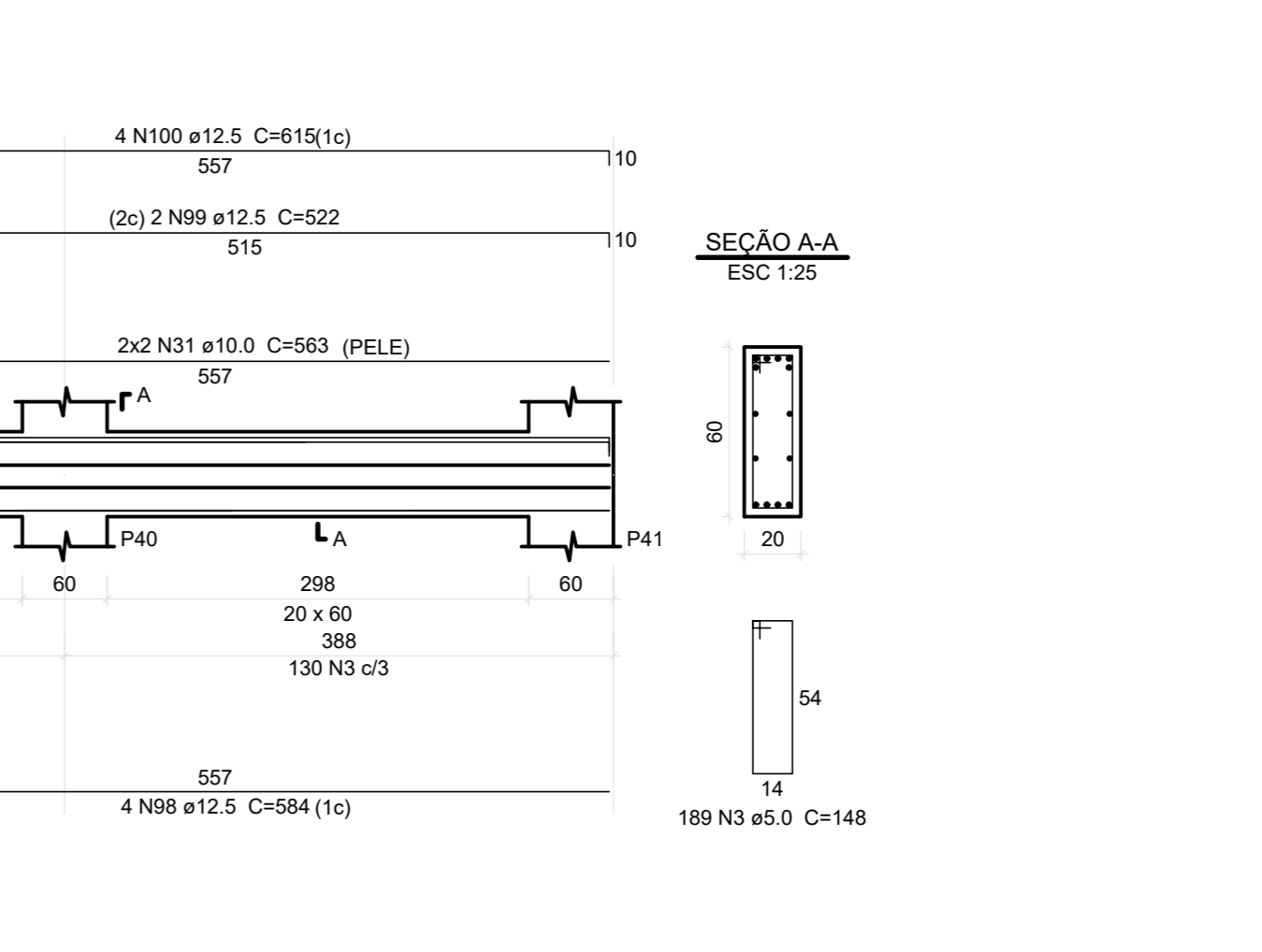
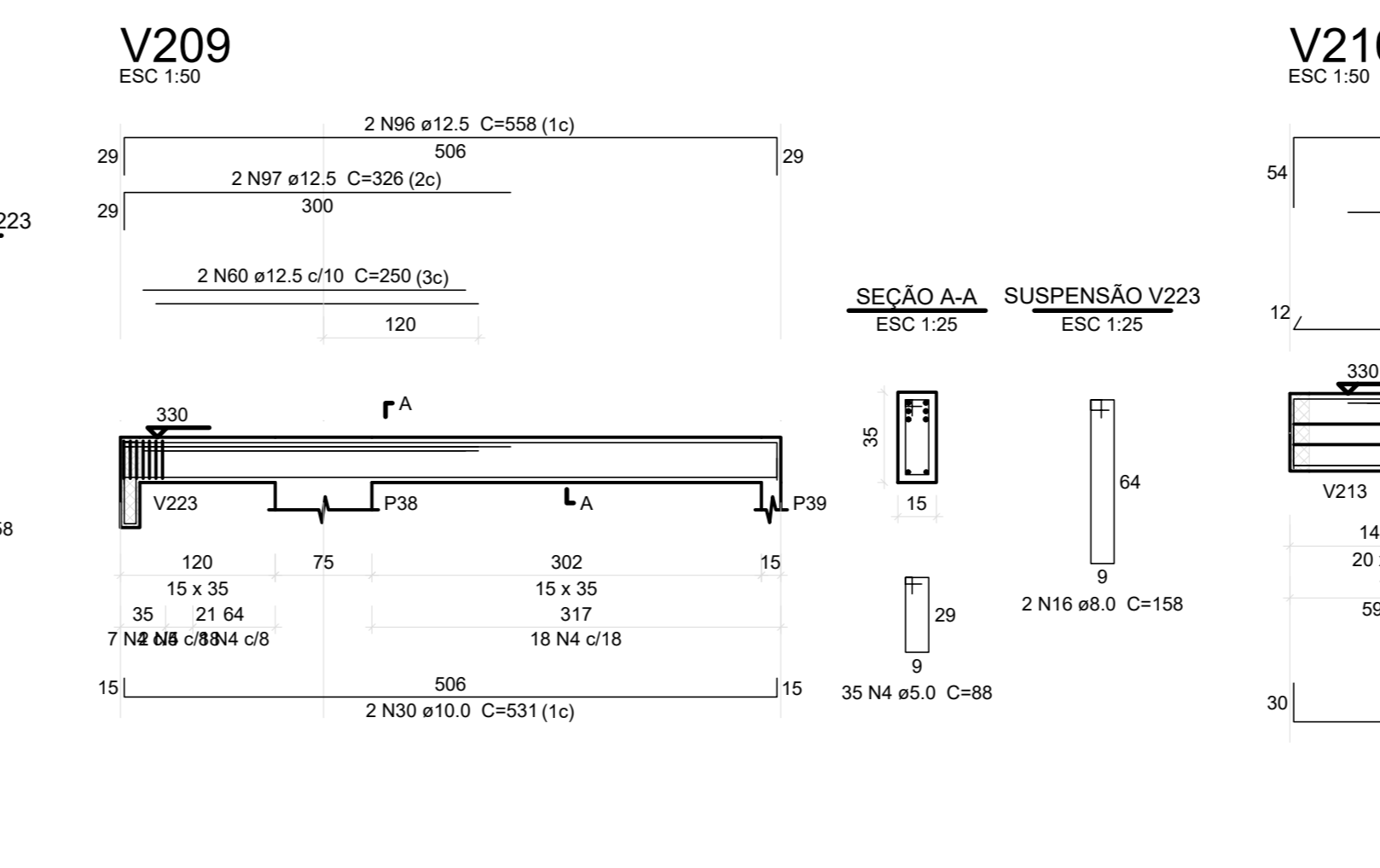
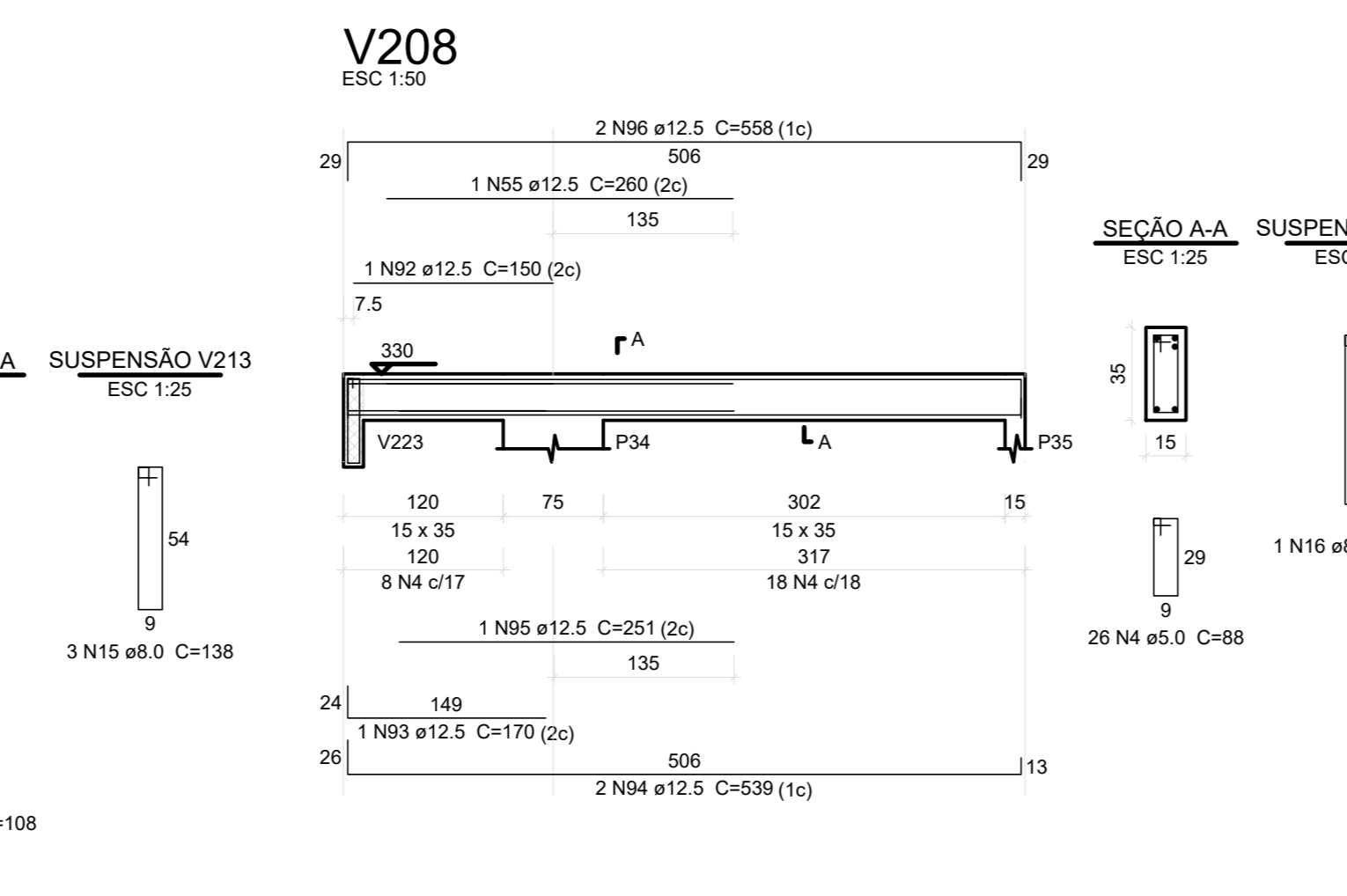
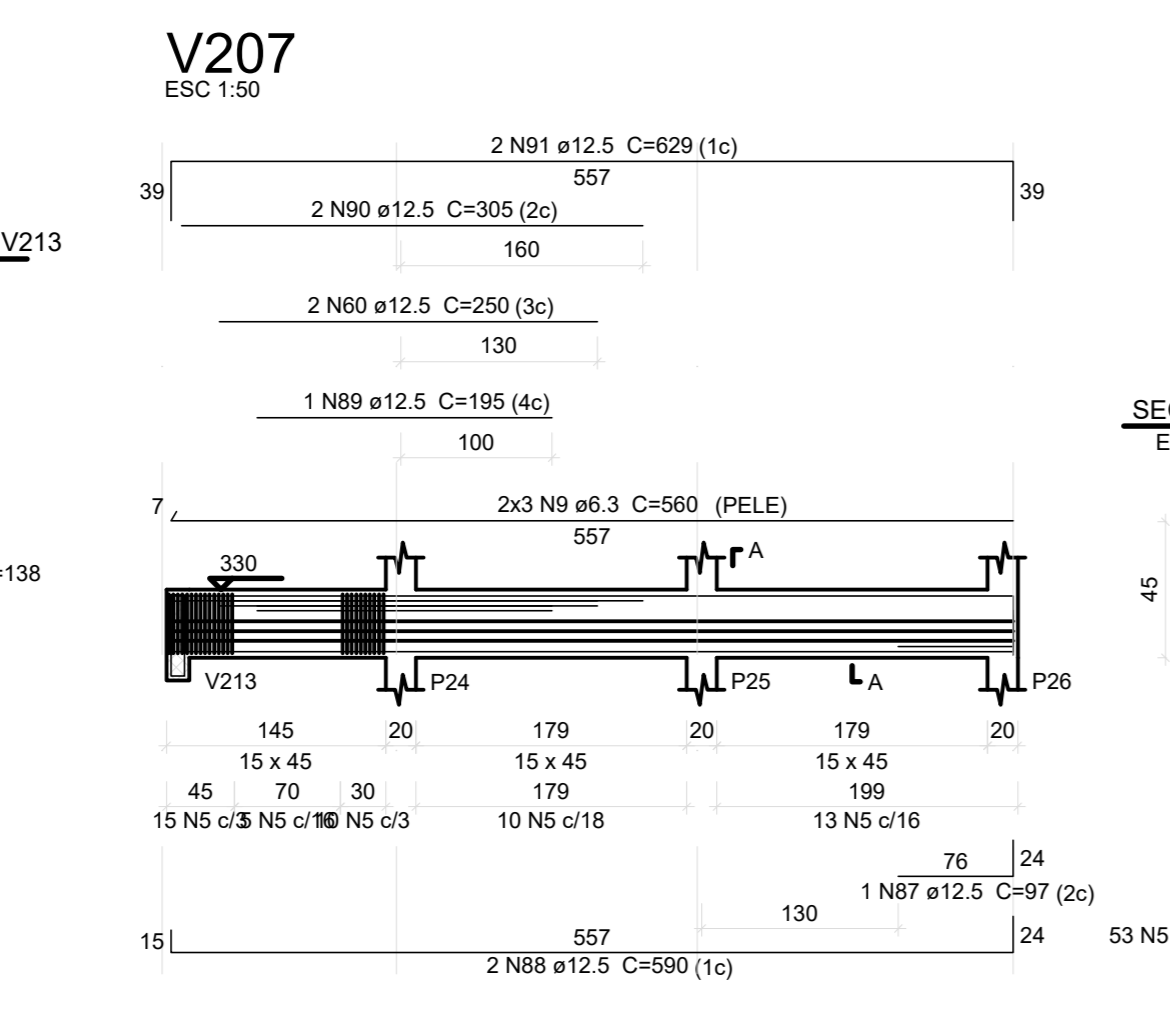
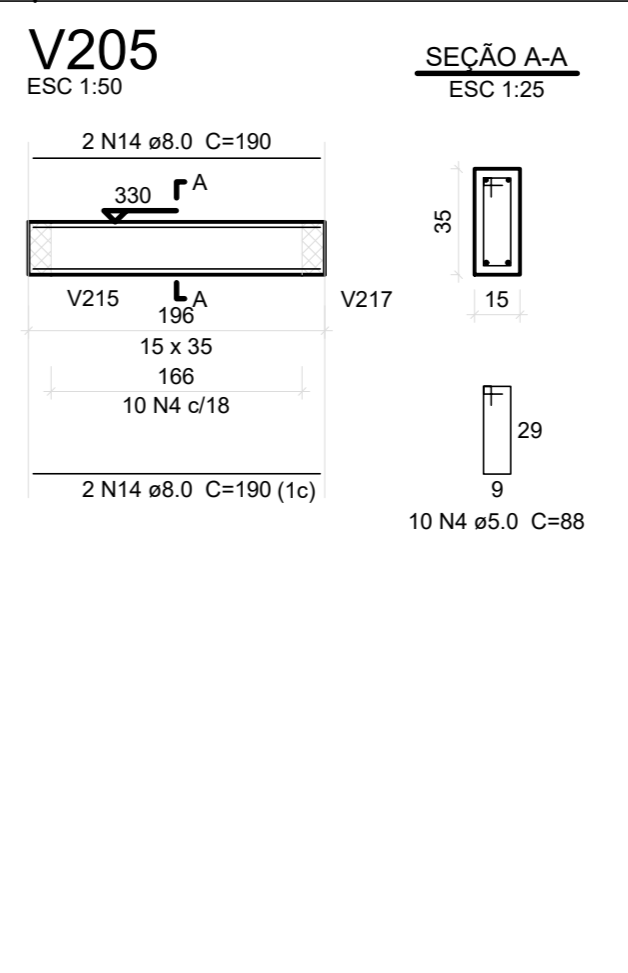
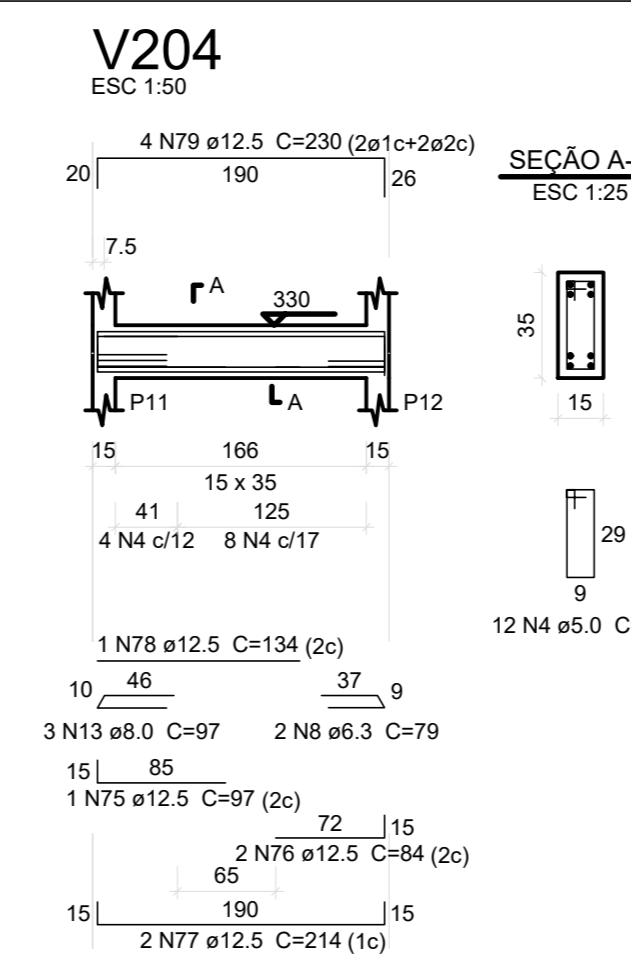
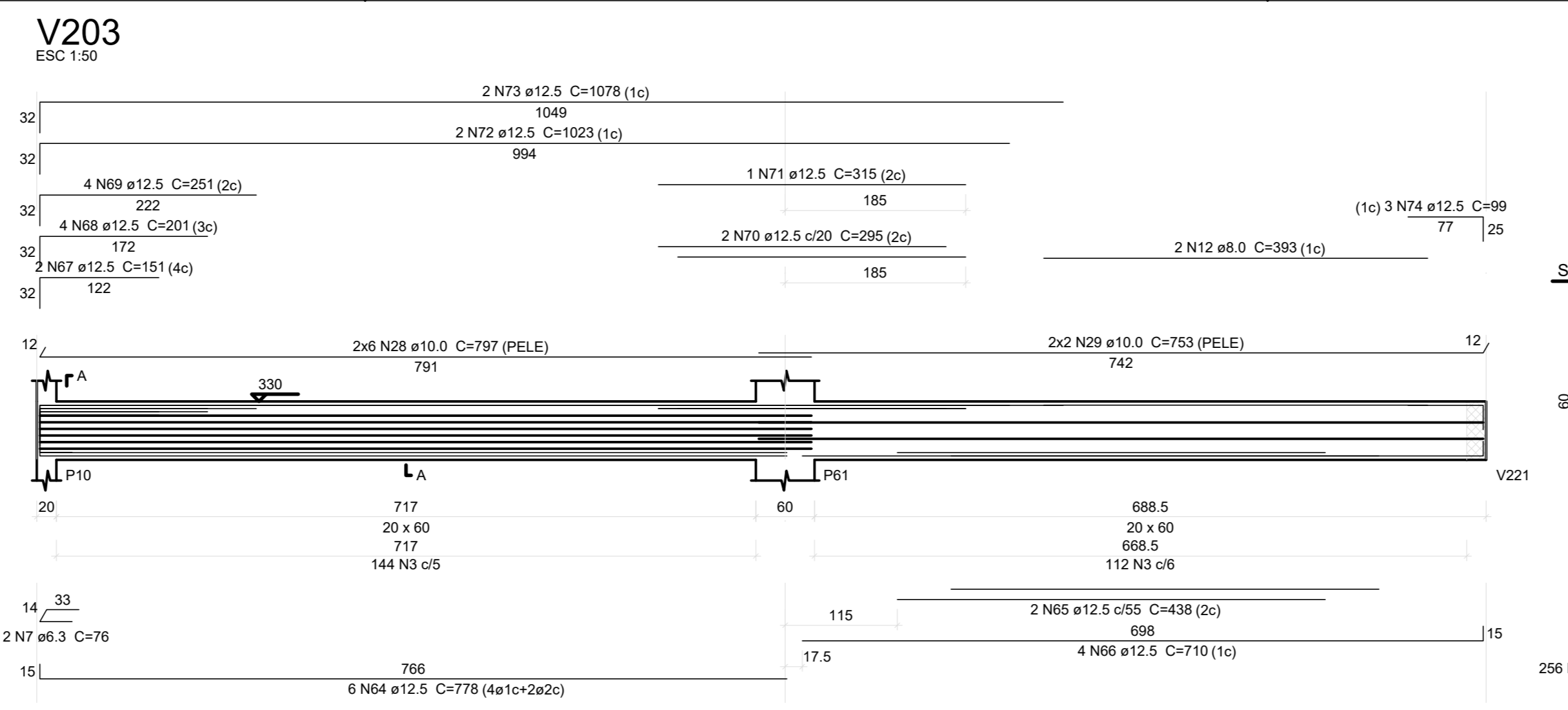
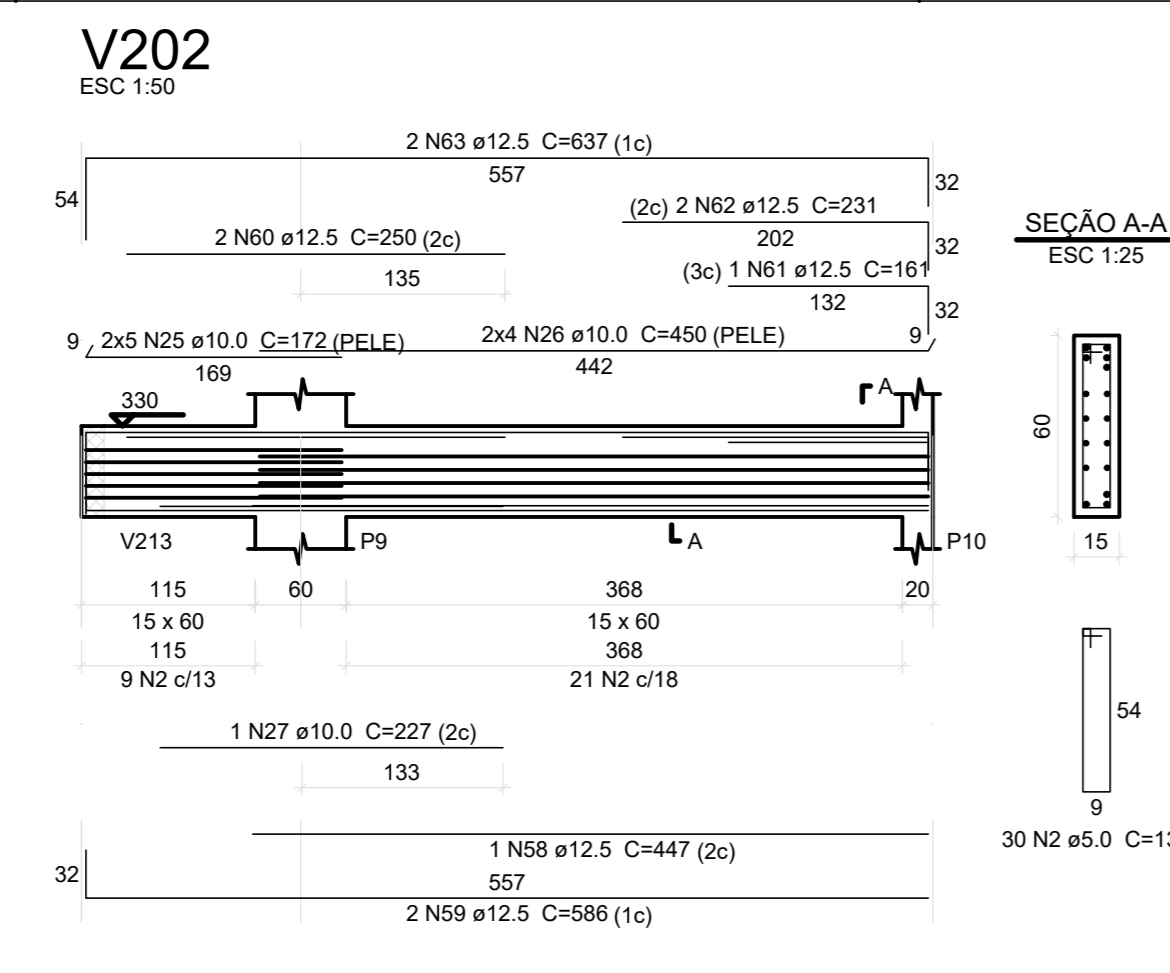
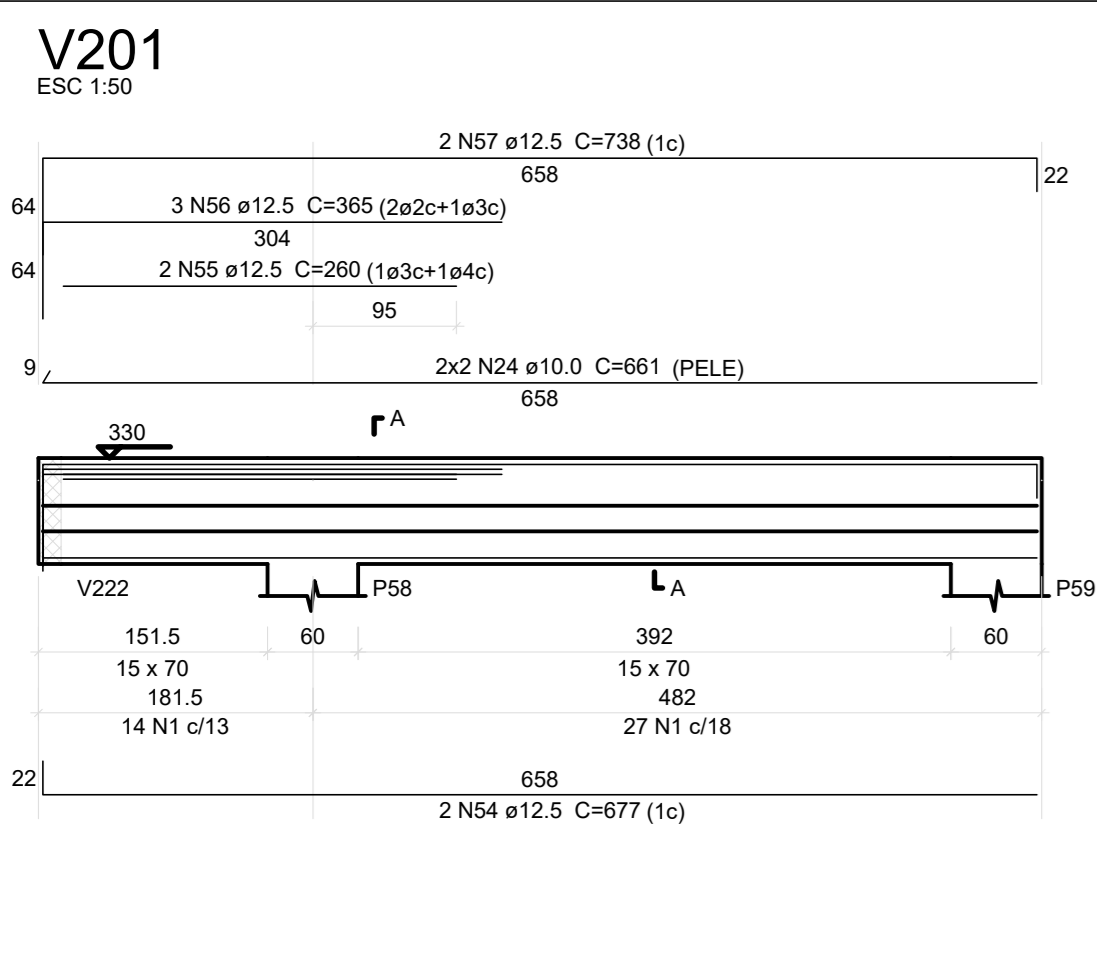
Nº	Descrição	Data

Emissão final: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO: \_\_\_\_\_  
 AUTOR DO PROJETO: \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO: \_\_\_\_\_





ACO	N	DIAM (mm)	QUANT	CLUBIT (mm)	C.TOTAL (mm)
CA60	1	5.0	377	158	59566
	2	6.0	207	138	28586
	3	5.0	562	148	83176
	4	5.0	210	88	18460
	5	5.0	53	5724	128
	6	5.0	50	128	6400
	7	6.0	76	76	582
	8	6.3	11	79	869
	9	6.3	2	500	3360
	10	6.3	24	88	2112
	11	6.3	37	128	4736
	12	6.0	2	293	736
	13	8.0	3	97	291
	14	8.0	4	190	760
	15	8.0	4	138	552
	16	8.0	3	158	474
	17	8.0	4	84	376
	18	8.0	4	113	483
	19	8.0	28	128	3584
	20	8.0	2	1714	3428
	21	17.2	10	172	1720
	22	8.0	2	250	500
23	6.0	2	400	800	
24	10.0	4	661	2644	
25	10.0	10	172	1720	
26	10.0	8	450	3600	
27	10.0	1	227	227	
28	10.0	12	797	8964	
29	10.0	4	753	3012	
30	10.0	2	531	1062	
31	10.0	4	563	2252	
32	10.0	2	797	8964	
33	10.0	8	786	6288	
34	10.0	1	257	257	
35	10.0	4	669	2676	
36	10.0	12	1194	14328	
37	10.0	8	103	824	
38	10.0	2	224	448	
39	10.0	10	696	6960	
40	10.0	4	255	1020	
41	10.0	4	731	2924	
42	10.0	4	669	2676	
43	10.0	8	881	7048	
44	10.0	8	656	4520	
45	10.0	1	284	284	
46	10.0	4	559	2236	
47	10.0	8	441	3528	
48	10.0	8	128	1024	
49	10.0	1	130	130	
50	10.0	1	208	208	
51	10.0	4	1000	4000	
52	10.0	4	74	296	
53	10.0	2	1062	2124	
54	12.5	2	677	1354	
55	12.5	3	200	780	
56	12.5	4	856	10956	
57	12.5	2	738	1476	
58	12.5	1	586	1172	
59	12.5	2	1500	3000	
60	12.5	2	161	322	
61	12.5	1	161	161	
62	12.5	2	231	462	
63	12.5	2	637	1274	
64	12.5	6	778	4668	
65	12.5	2	438	876	
66	12.5	4	710	2840	
67	12.5	2	151	302	
68	12.5	4	201	804	
69	12.5	1	104	104	
70	12.5	2	295	590	
71	12.5	1	315	315	
72	12.5	2	1033	2066	
73	12.5	2	1078	2156	
74	12.5	3	99	297	
75	12.5	1	97	97	
76	12.5	2	84	168	
77	12.5	2	214	428	
78	12.5	1	134	134	
79	12.5	4	230	920	
80	12.5	4	229	916	
81	12.5	1	121	121	
82	12.5	3	372	1116	
83	12.5	2	208	208	
84	12.5	1	146	146	
85	12.5	2	205	410	
86	12.5	4	590	2360	
87	12.5	1	97	97	
88	12.5	2	180	180	
89	12.5	1	195	195	
90	12.5	2	305	610	
91	12.5	2	629	1258	
92	12.5	1	180	180	
93	12.5	1	170	170	
94	12.5	2	539	1078	
95	12.5	1	251	251	
96	12.5	4	558	2232	
97	12.5	3	328	656	
98	12.5	4	584	2336	
99	12.5	2	522	1044	
100	12.5	4	615	2460	
101	12.5	1	589	589	
102	12.5	2	658	1316	
103	12.5	1	388	388	
104	12.5	2	771	1542	
105	12.5	1	168	168	
106	12.5	2	220	440	
107	12.5	2	400	800	
108	12.5	2	1031	2062	
109	12.5	2	161	322	
110	12.5	2	1197	2394	
111	12.5	2	462	924	
112	12.5	2	696	1392	
113	12.5	3	316	630	
114	12.5	1	370	370	
115	12.5	1	540	540	
116	12.5	3	665	1995	
117	12.5	2	780	1560	
118	12.5	2	424	848	
119	12.5	2	882	1764	
120	12.5	2	388	776	
121	12.5	1	403	403	
122	12.5	1	180	180	
123	12.5	2	1103	2206	

ACO	DIAM	C.TOTAL	PESO + 10%
CA50	6.3	112.3	30.2
	8.0	125.1	54.3
	10.0	866.6	637.6
	12.5	1028.1	1331.4
CA60	5.0	2019.2	342.3
CA60	5.0	2019.2	342.3
CA60	5.0	2019.2	342.3

ACO	DIAM	C.TOTAL	PESO + 10%
CA50	6.3	112.3	30.2
	8.0	125.1	54.3
	10.0	866.6	637.6
	12.5	1028.1	1331.4
CA60	5.0	2019.2	342.3
CA60	5.0	2019.2	342.3
CA60	5.0	2019.2	342.3

Revisões da prancha	Emissão final
-	LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO



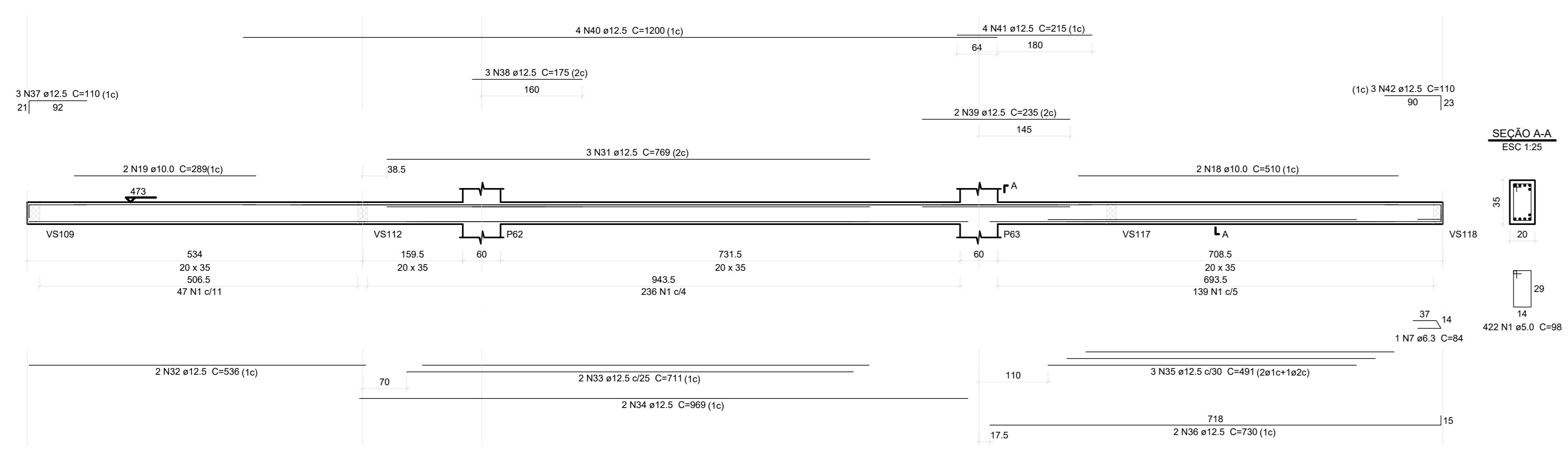




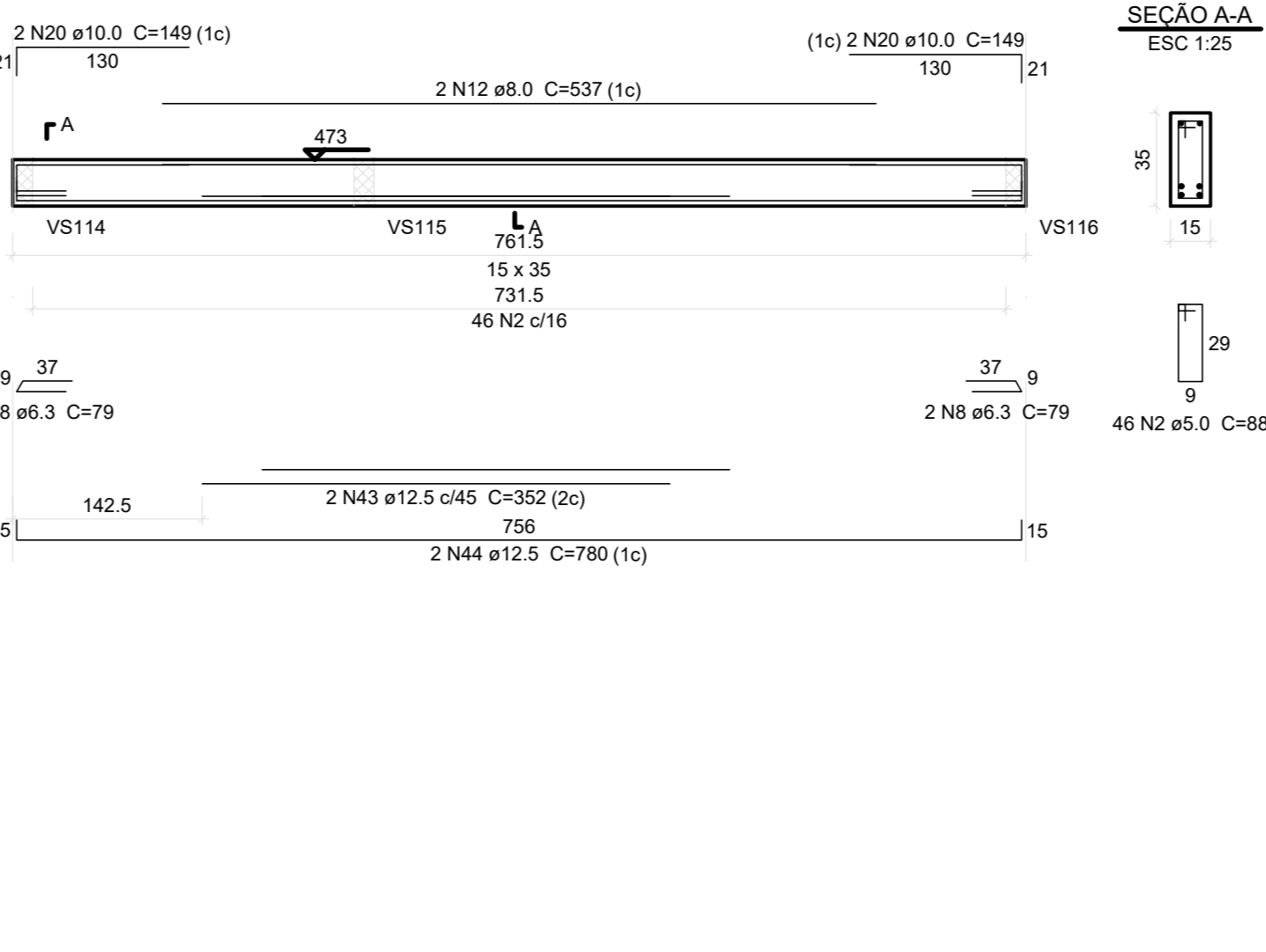




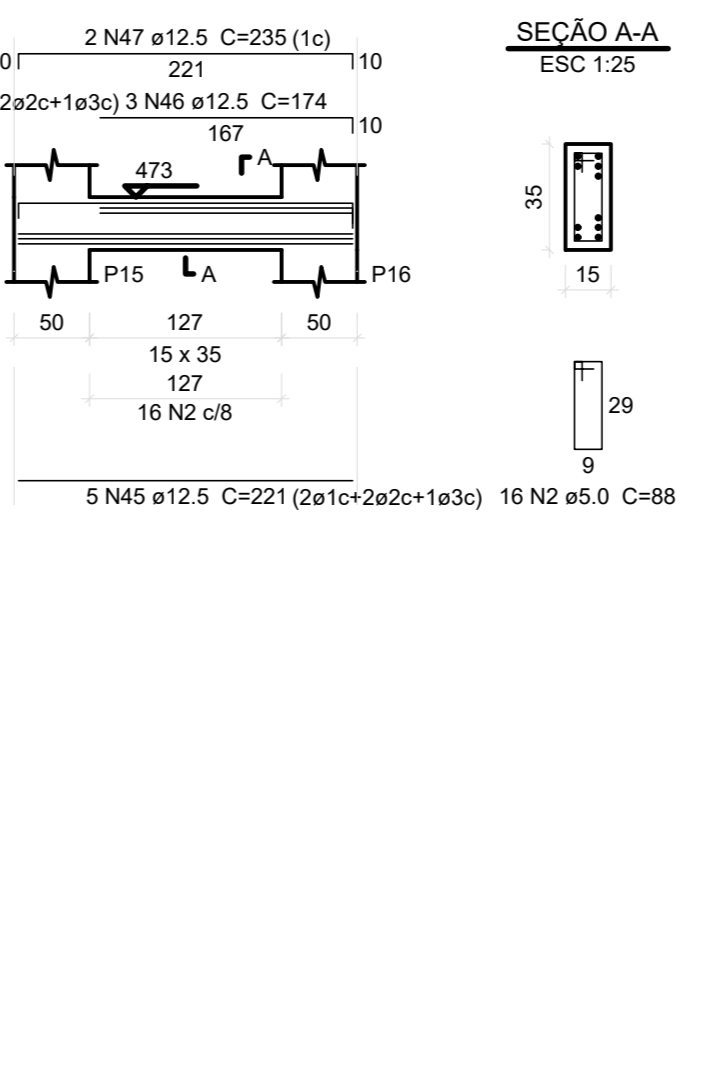
VS101



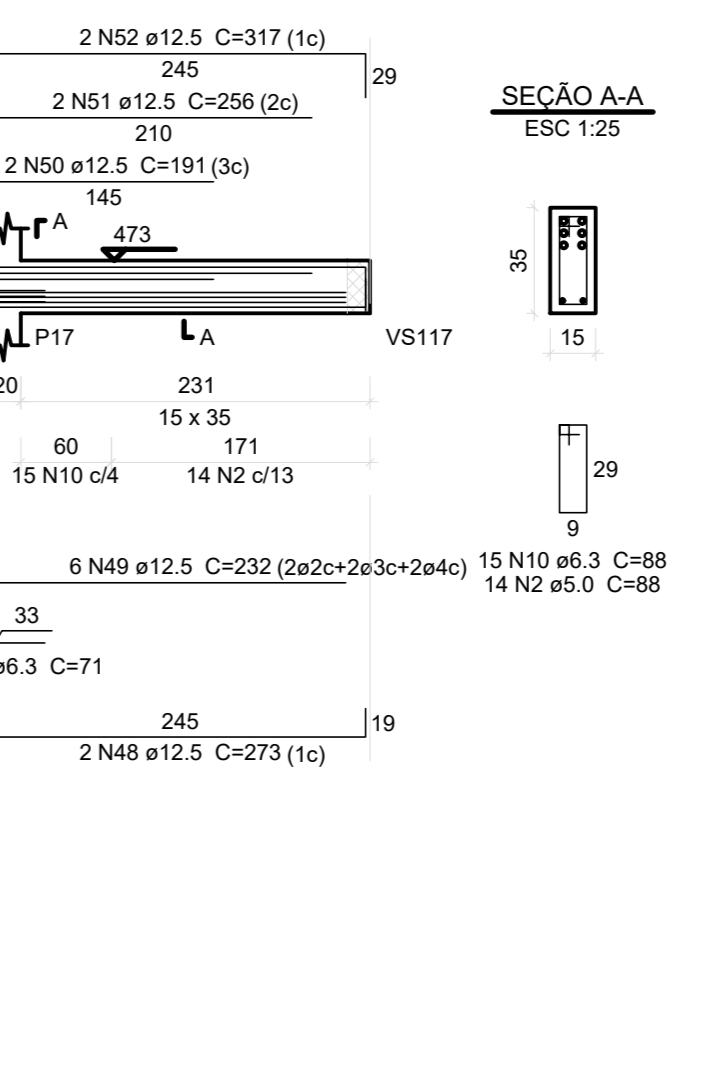
VS102



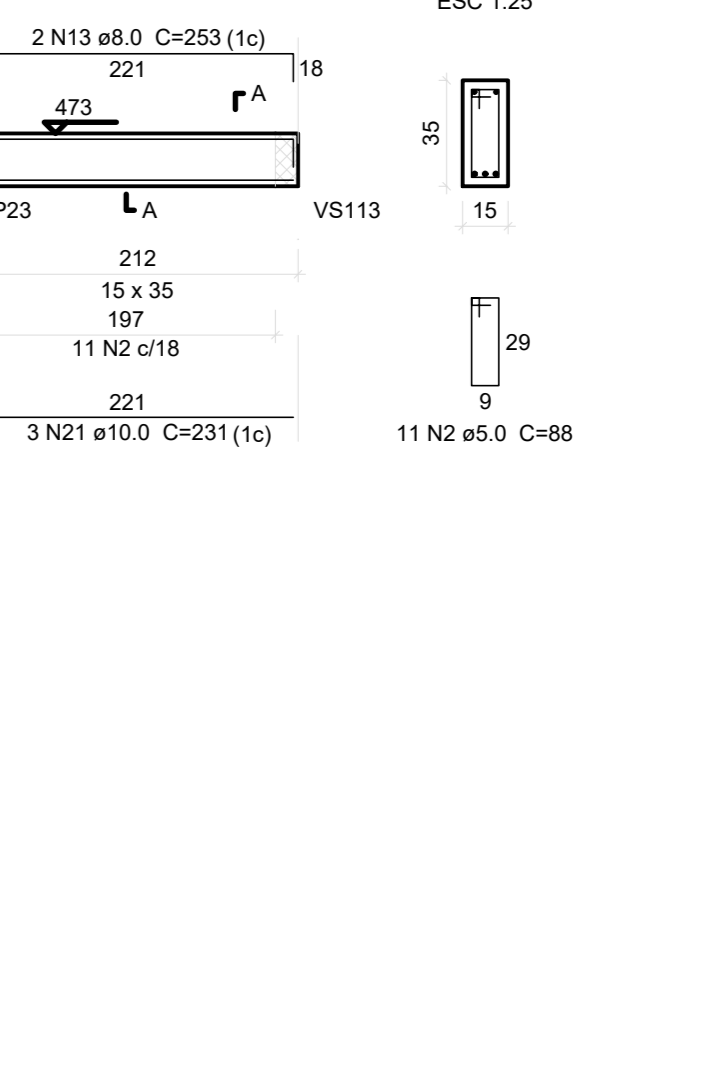
VS103



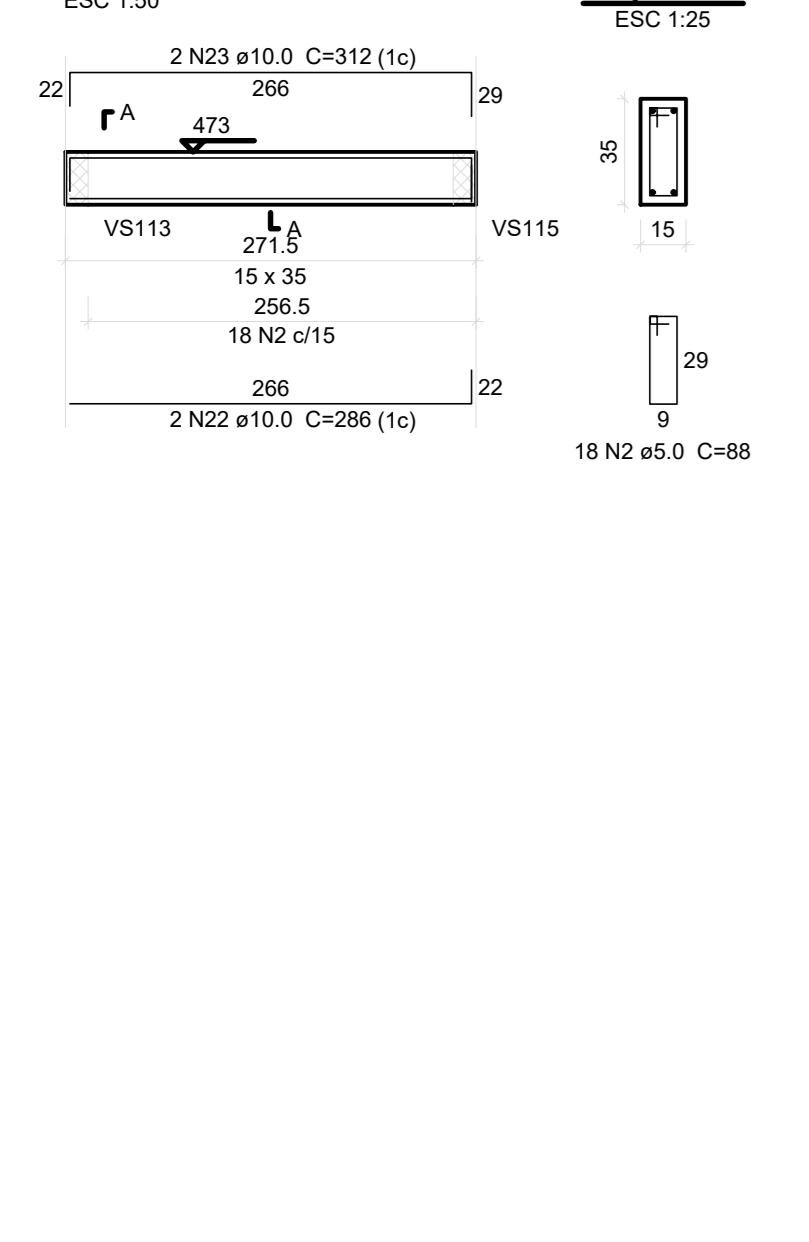
VS104



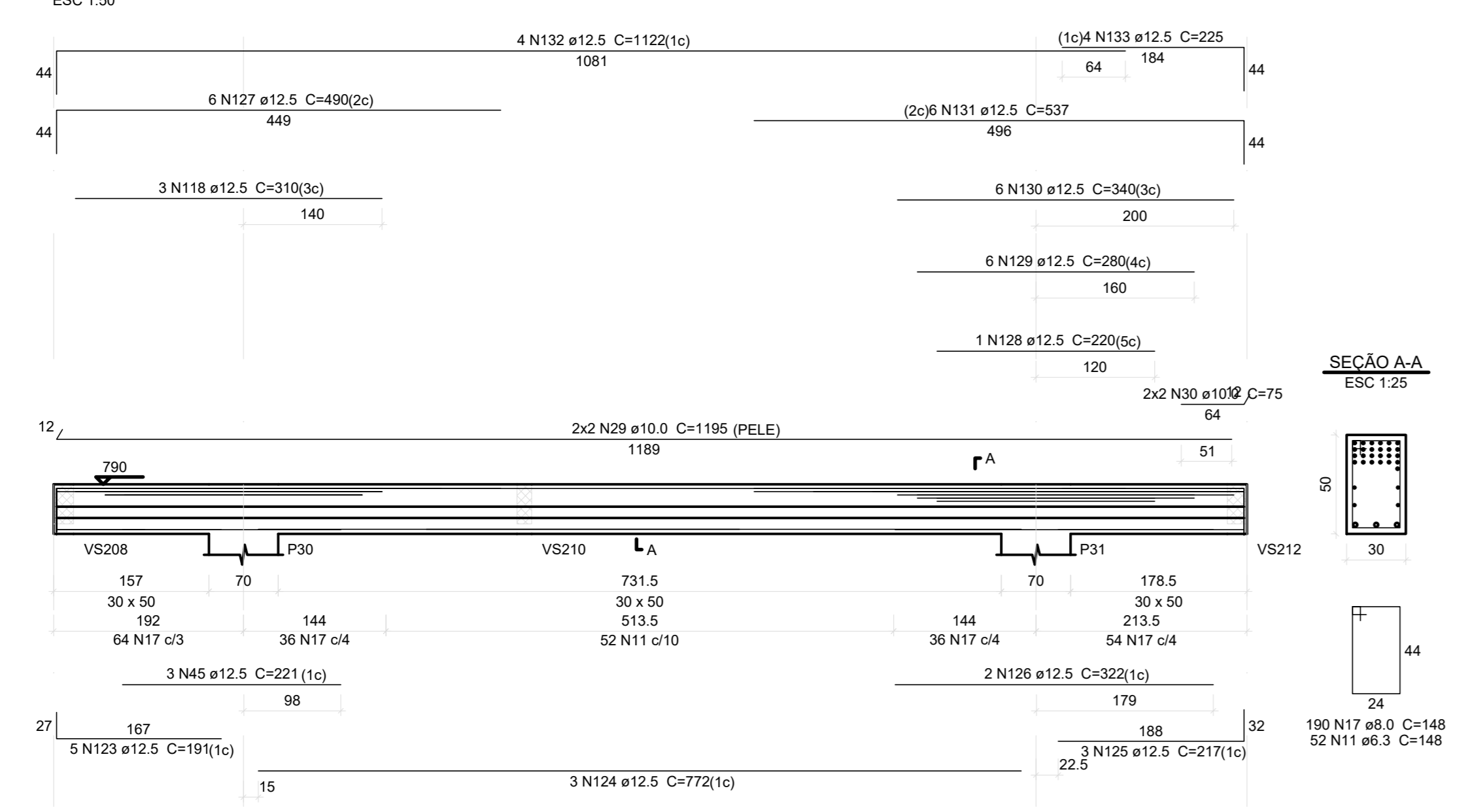
VS105



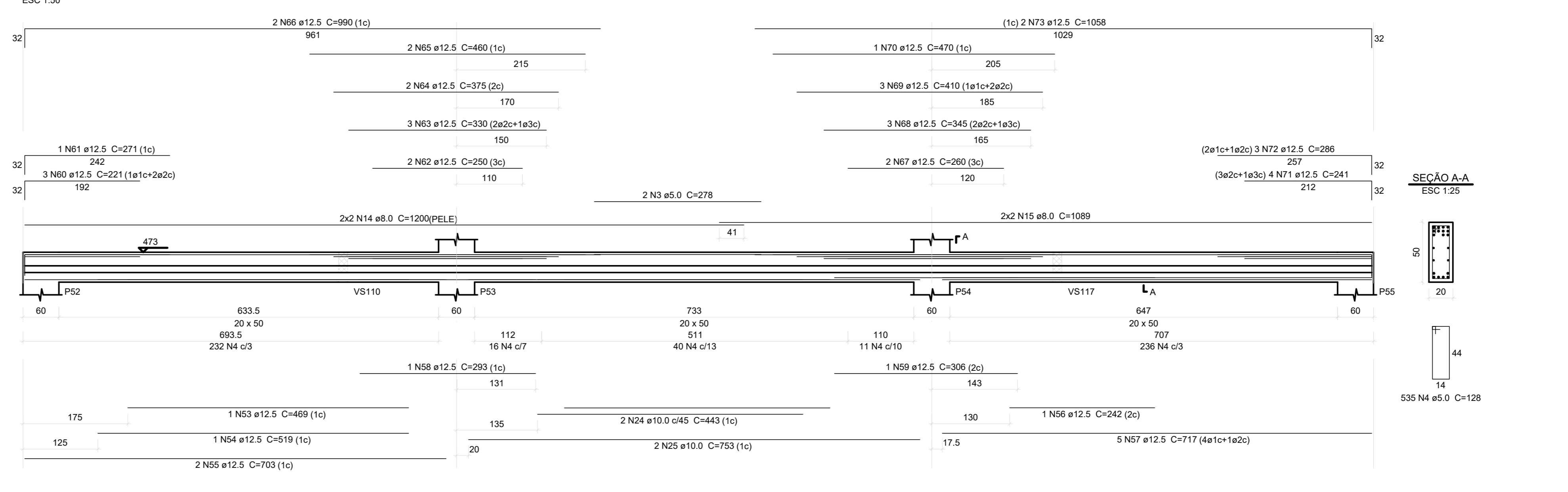
VS106



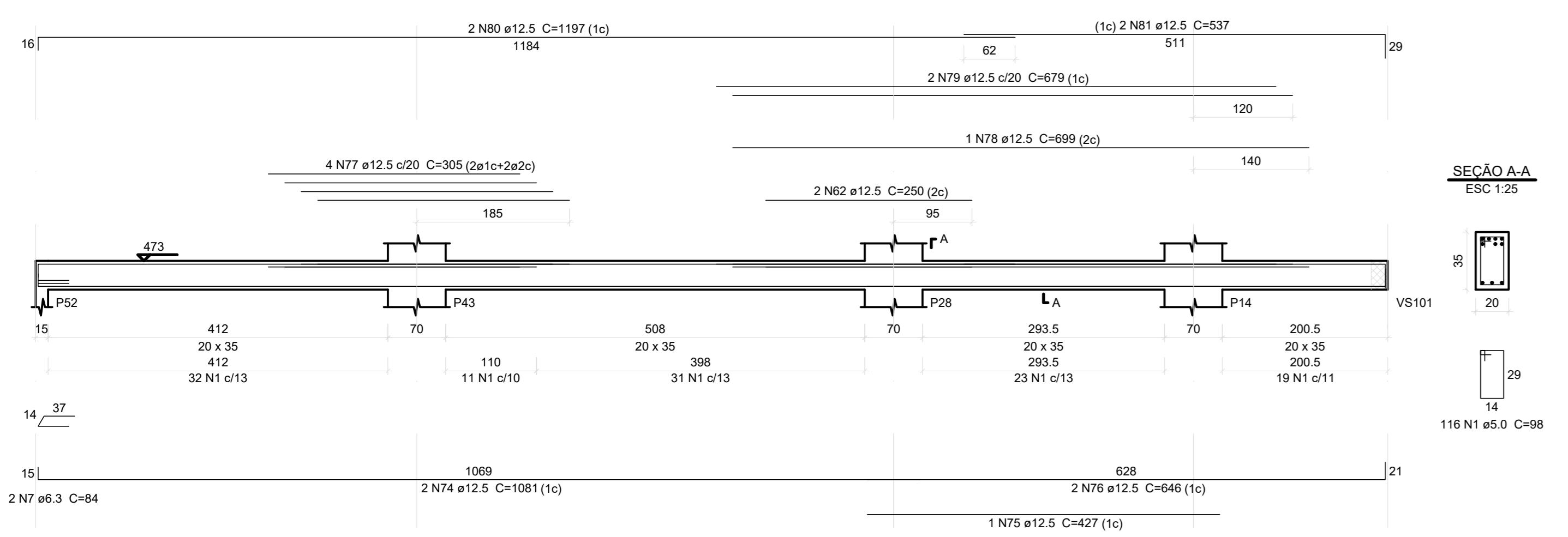
VS107



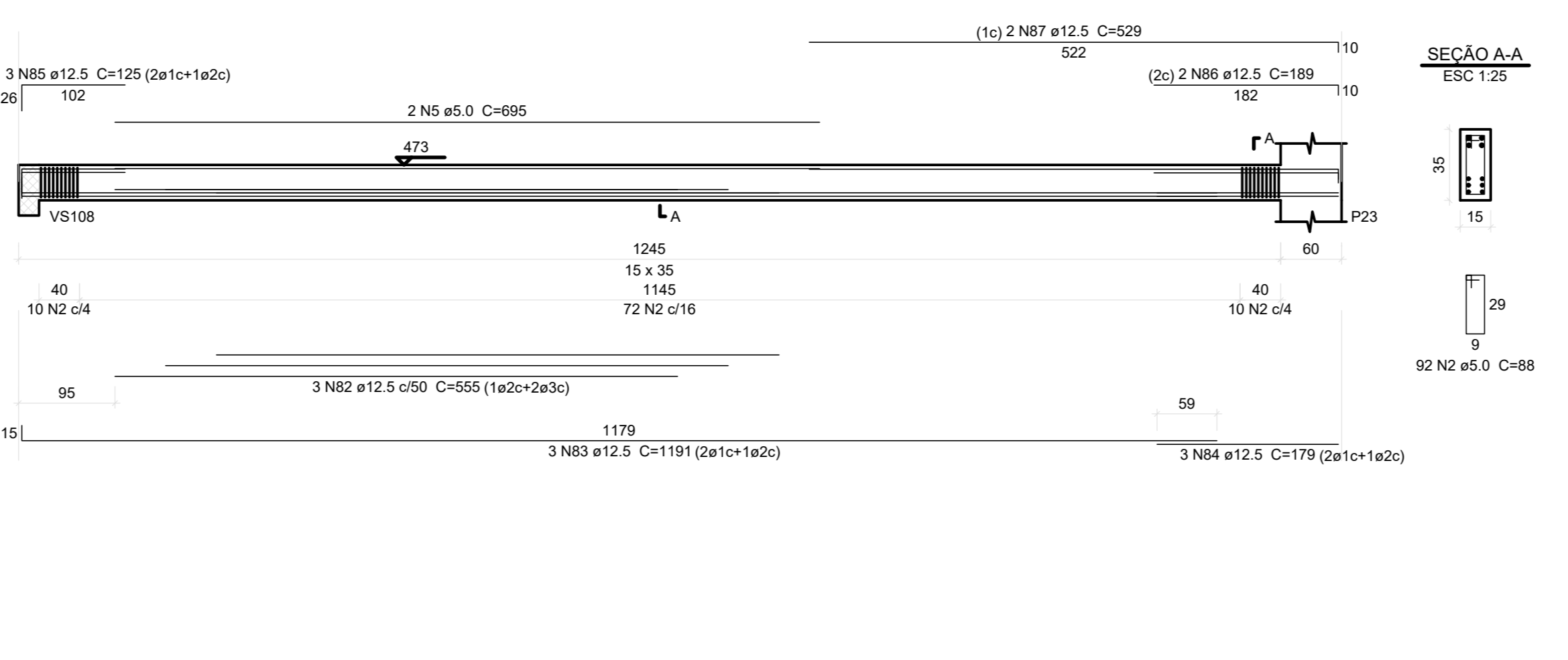
VS108



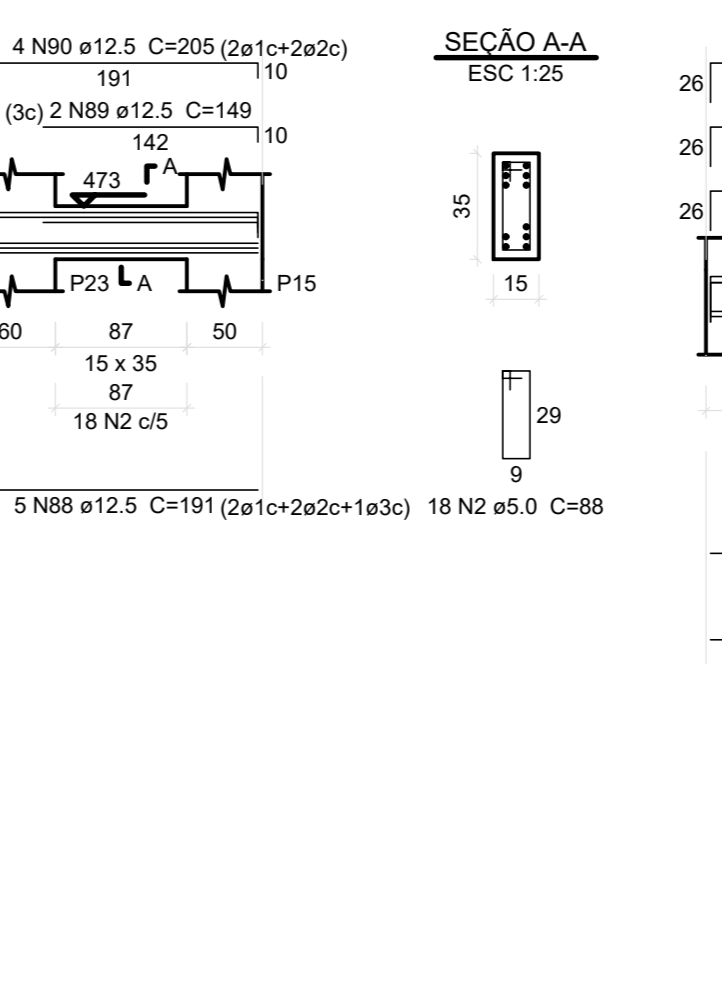
VS109



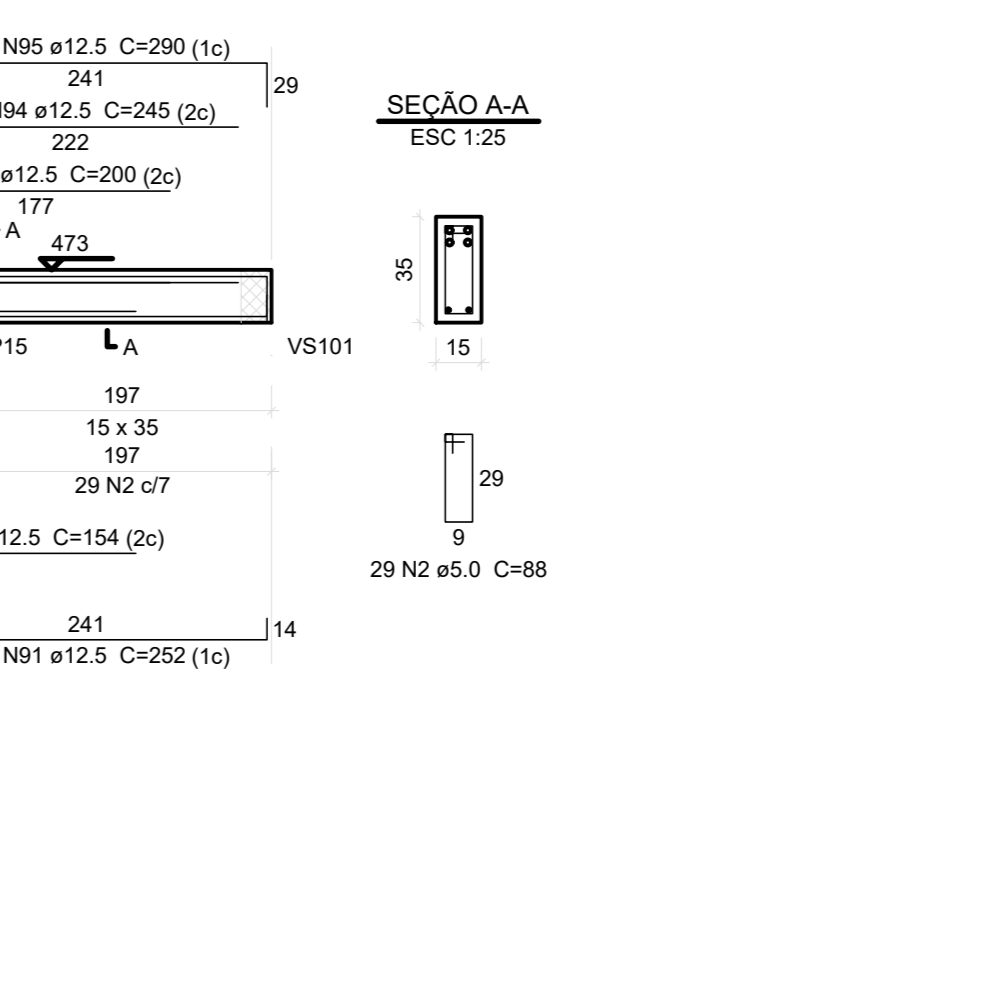
VS110



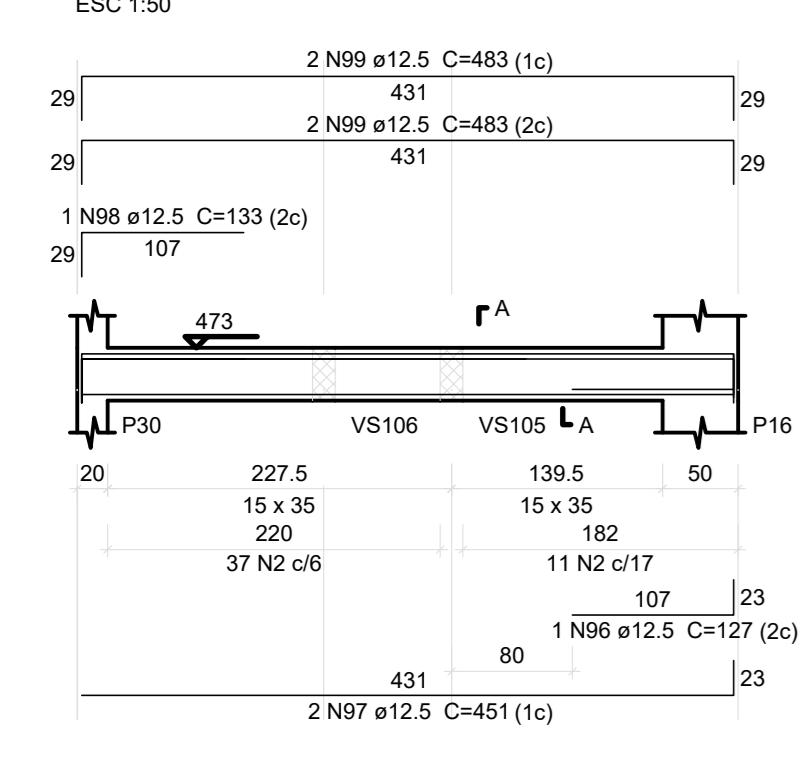
VS111



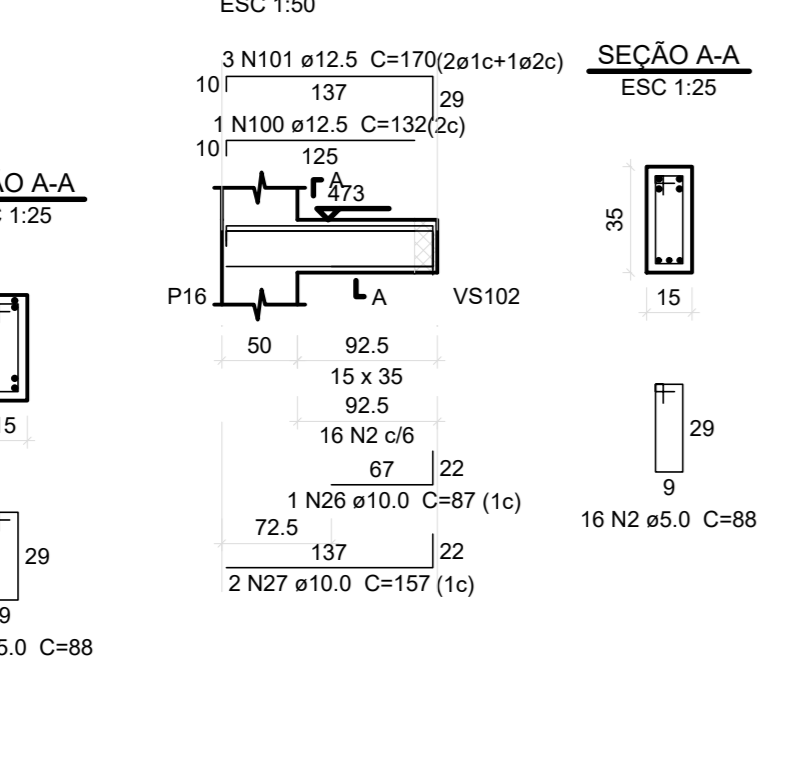
VS112



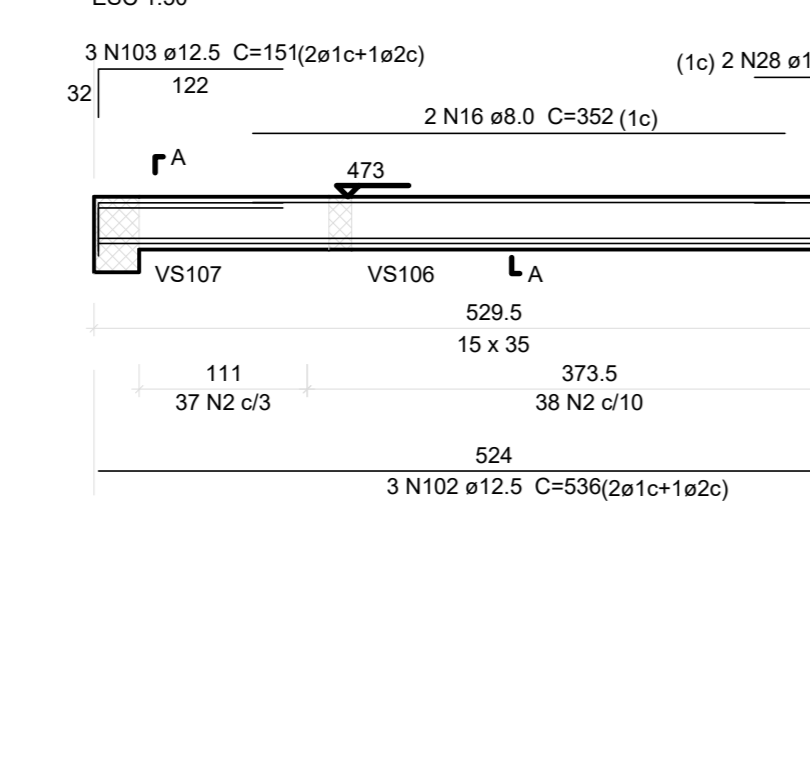
VS113



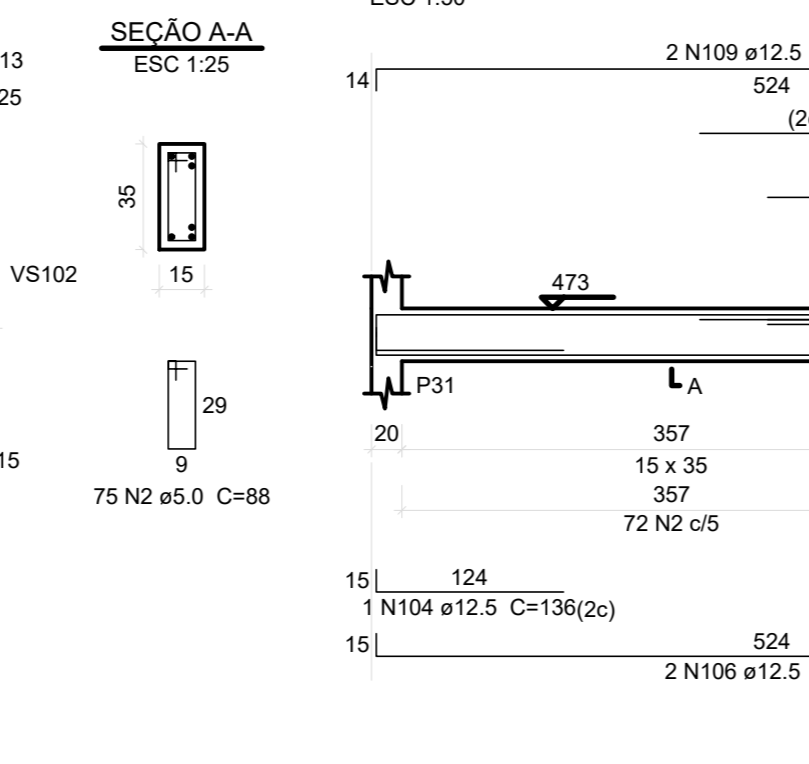
VS114



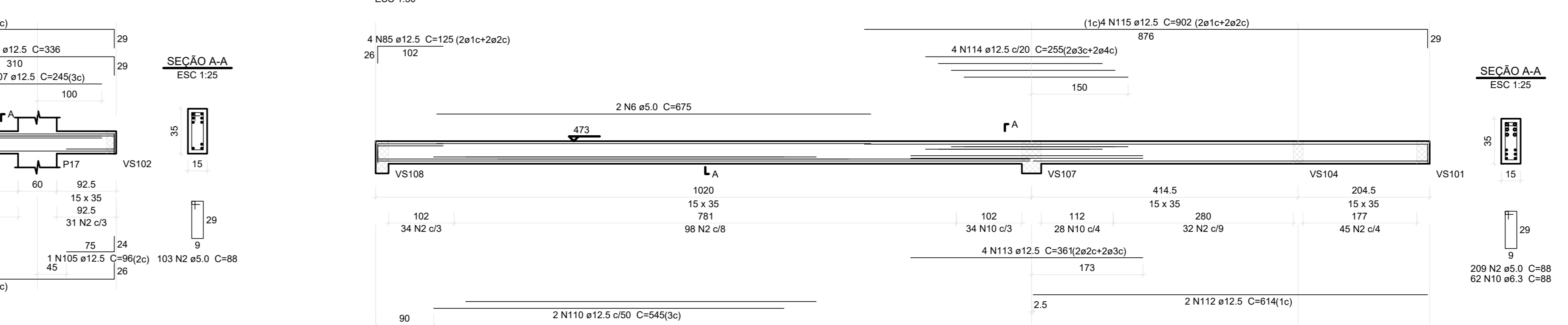
VS115



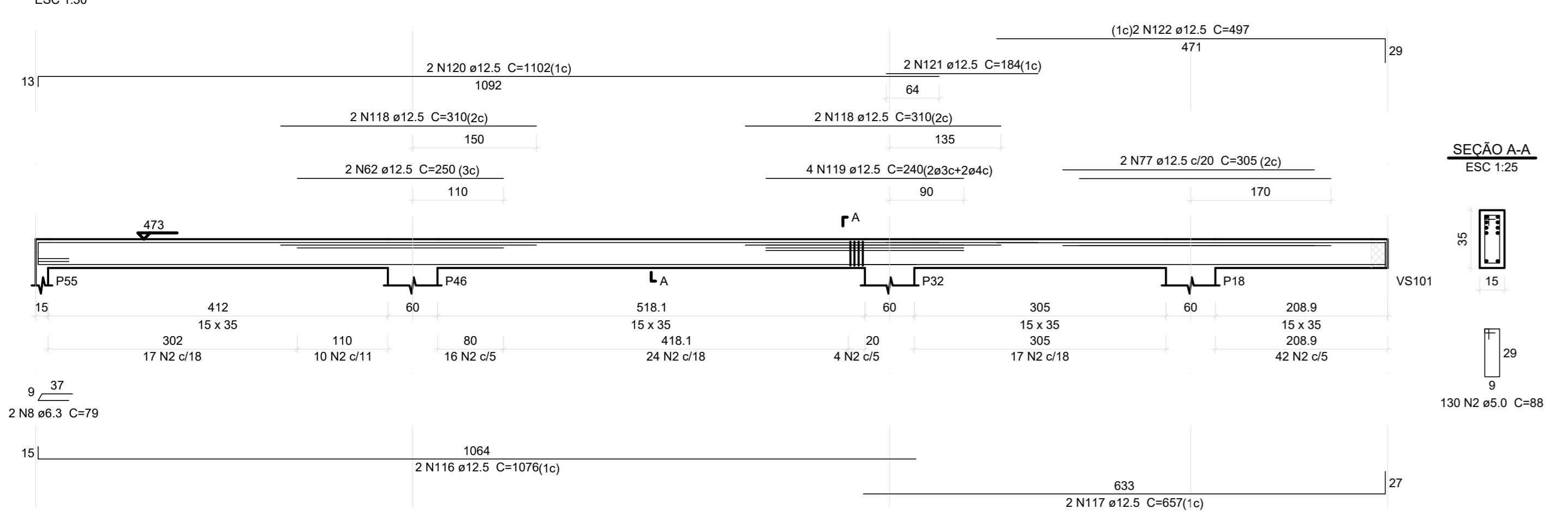
VS116



VS117



VS118



AGD	N	DIAM	QUANT	CLINAT	C.TOTAL	(cm)
CA00	1	5.0	538		2773.4	98
	2	5.0	825		7260.0	88
	3	5.0	2		278	550
	4	5.0	530		6840.0	138
	5	5.0	2		695	1360
	6	5.0	2		6	474
	7	6.3	3		84	252
	8	6.3	6		71	213
	9	6.3	3		71	213
	10	6.3	37		86	1074
	11	6.3	52		148	1698
	12	6.3	2		2	537
	13	8.0	2		203	508
	14	8.0	4		1200	4800
	15	8.0	4		1008	4032
	16	8.0	2		352	704
	17	8.0	150		148	2820.0
	18	10.0	2		510	1020
	19	10.0	2		298	596
	20	10.0	4		149	596
	21	10.0	3		231	604
	22	10.0	2		286	572
	23	10.0	2		312	624
	24	10.0	2		443	886
	25	10.0	2		763	1526
	26	10.0	1		87	174
	27	10.0	2		157	314
	28	10.0	2		113	226
	29	10.0	4		1195	4780
	30	10.0	4		75	300
	31	12.5	3		769	2307
	32	12.5	2		536	1072
	33	12.5	2		711	1422
	34	12.5	2		960	1920
	35	12.5	3		491	1473
	36	12.5	2		730	1460
	37	12.5	3		110	330
	38	12.5	3		175	525
	39	12.5	2		235	470
	40	12.5	4		1200	4800
	41	12.5	4		610	2440
	42	12.5	3		110	330
	43	12.5	2		364	728
	44	12.5	2		790	1580
	45	12.5	2		1160	2320
	46	12.5	3		174	522
	47	12.5	2		235	470
	48	12.5	6		232	1392
	49	12.5	6		232	1392
	50	12.5	2		191	382
	51	12.5	2		256	512
	52	12.5	2		517	1034
	53	12.5	1		469	938
	54	12.5	2		519	1038
	55	12.5	2		703	1406
	56	12.5	2		221	442
	57	12.5	5		717	3585
	58	12.5	1		209	209
	59	12.5	1		306	306
	60	12.5	3		221	663
	61	12.5	2		191	382
	62	12.5	6		200	1200
	63	12.5	2		460	920
	64	12.5	2		375	750
	65	12.5	2		460	920
	66	12.5	2		990	1980
	67	12.5	2		500	1000
	68	12.5	3		345	1035
	69	12.5	3		410	1230
	70	12.5	1		470	470
	71	12.5	4		241	964
	72	12.5	4		266	1064
	73	12.5	2		1008	2116
	74	12.5	2		1981	3962
	75	12.5	1		427	427
	76	12.5	2		646	1292
	77	12.5	6		305	1830
	78	12.5	2		699	1398
	79	12.5	2		679	1358
	80	12.5	2		1197	2394
	81	12.5	2		527	1054
	82	12.5	3		555	1665
	83	12.5	3		573	1719
	84	12.5	3		179	537
	85	12.5	1		137	137
	86	12.5	2		189	378
	87	12.5	2		329	658
	88	12.5	5		191	955
	89	12.5	2		149	298
	90	12.5	4		355	804
	91	12.5	2		252	504
	92	12.5	1		154	154
	93	12.5	1		200	200
	94	12.5	1		245	245
	95	12.5	2		200	400
	96	12.5	1		137	137
	97	12.5	2		451	902
	98	12.5	1		133	133
	99	12.5	4		483	1932
	100	12.5	1		132	132
	101	12.5	3		510	1530
	102	12.5	3		536	1608
	103	12.5	3		551	1653
	104	12.5	1		136	136
	105	12.5	2		509	1118
	106	12.5	1		490	490
	107	12.5	2		336	672
	108	12.5	2		561	1122
	109	12.5	2		545	1090
	110	12.5	2		1027	2054
	111	12.5	2		614	1228
	112	12.5	4		361	1444
	113	12.5	4		255	1020
	114	12.5	4		902	3608
	115	12.5	4		902	3608
	116	12.5	2		2162	4324
	117	12.5	2		607	1214
	118	12.5	7		2170	15190
	119	12.5	4		240	960
	120	12.5	2		184	368
	121	12.5	2		184	368
	122	12.5	2		497	994
	123	12.5	3		217	651
	124	12.5	3		772	2316
	125	12.5	6		490	2940
	126	12.5	2		322	644
	127	12.5	6		490	2940
	128	12.5	1		220	220
	129	12.5	6		380	1900
	130	12.5	6		340	2040
	131	12.5	6		537	3222
	132	12.5	4		1122	4488
	133	12.5	4		225	900

Resumo do aço	AGD	DIAM	C.TOTAL	PESO + 10%			
	CA00	6.3	154.2	41.5			
		8.0	390.4	111.7			
		10.0	121.9	82.6			
		12.5	1217.8	1296.6			
	CA00	5.0	1971	334.2			
	PESO TOTAL						
			129	12.5	2	322	644
			127	12.5	6	490	2940
	CA00	1586.4					
	CA00	334.2					

Volume de concreto (C=45) = 9.83 m³  
 Área de forma = 149.2 m²

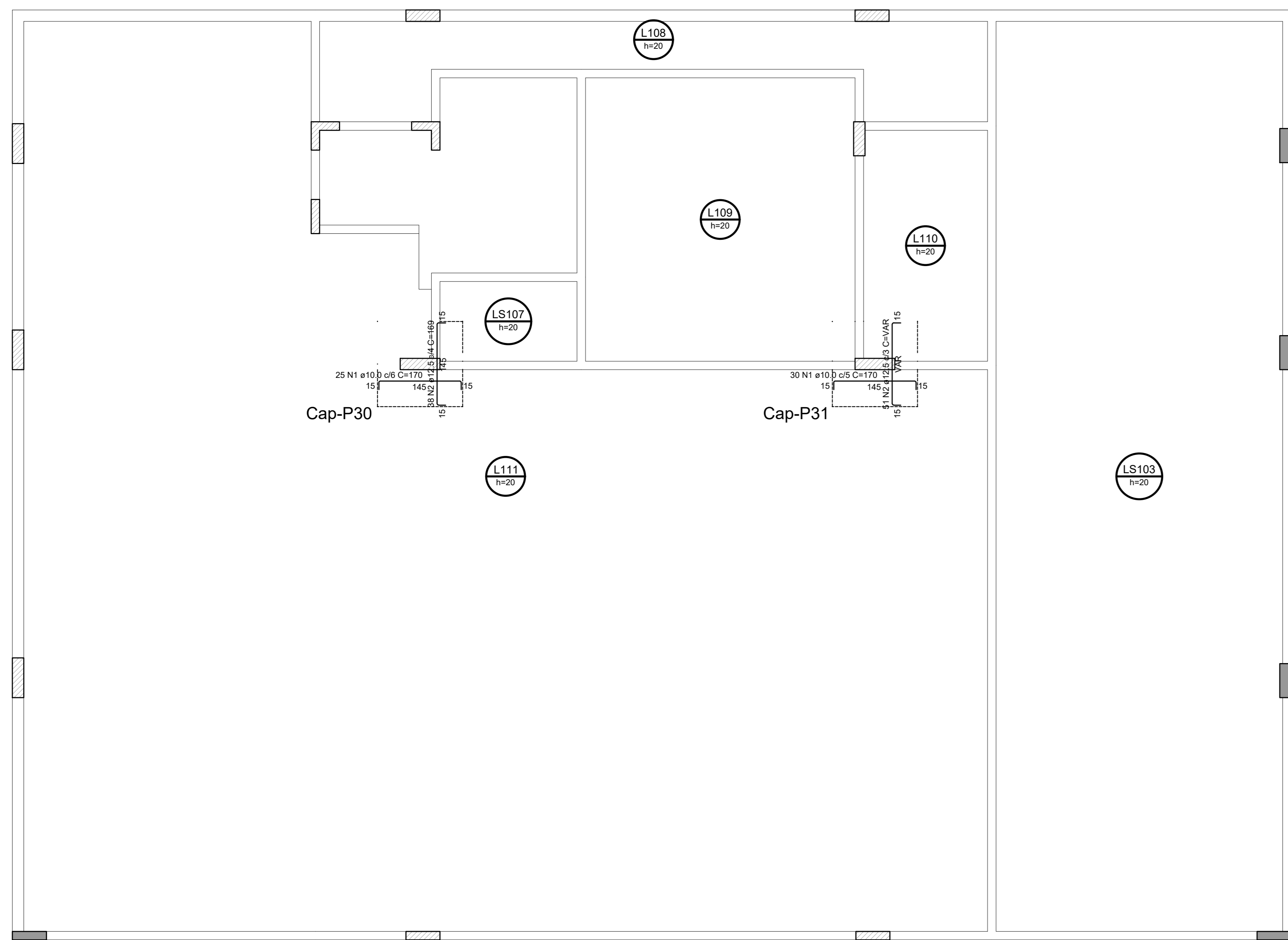
Revisões da prancha	LUIS F.	22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

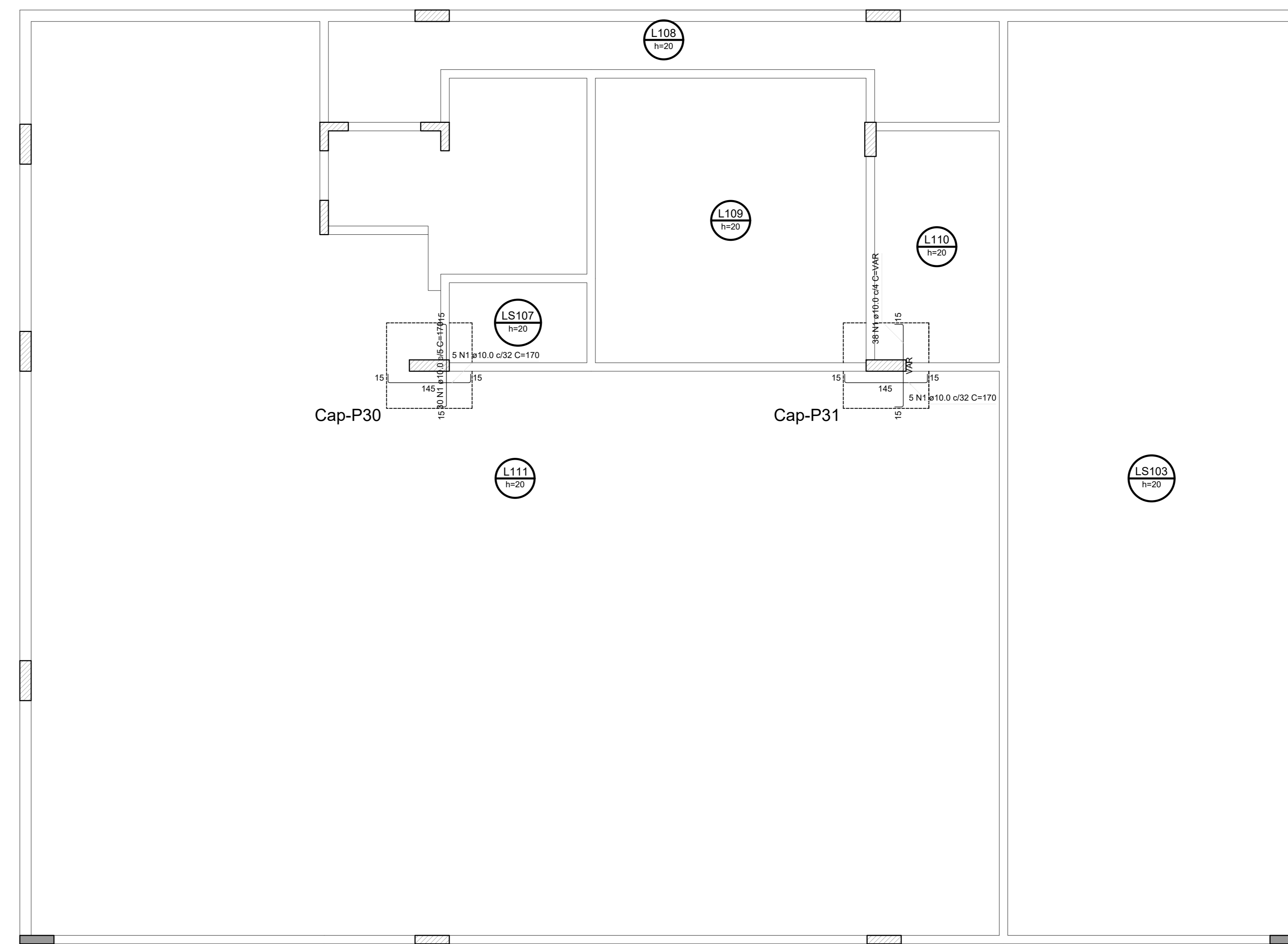
PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/DF  
 RESP. TÉCNICO

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
 CONCRETO CLASSE C40 FATOR AGRSIV.: II  
 Contêúdo: ARMAÇÃO DAS VIGAS DO PAVIMENTO SALÃO DE EVENTOS  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50  
 Prancha: ESTRUTURA 3  
 49/84





Armação Negativa das Regiões Maciças do Pavimento Salão de Eventos  
escala 1:50



Armação Positiva das Regiões Maciças do Pavimento Salão de Eventos  
escala 1:50

RELAÇÃO DO AÇO - Laje do Salão de Eventos

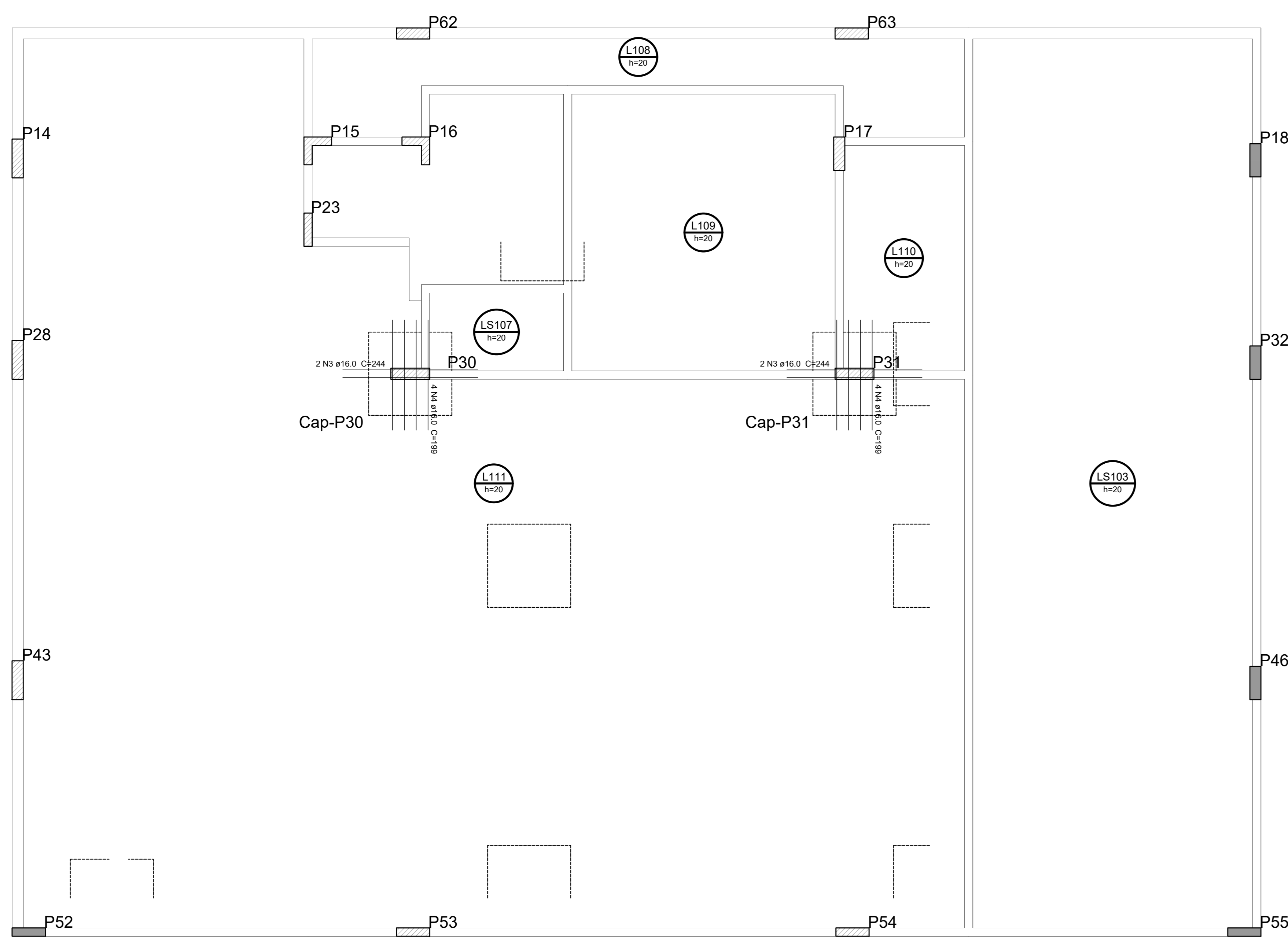
Maciças negativas - Maciças positivas

CLASS	Nº	DIAM (mm)	QUANT	C. COMB (cm)	C. TOTAL (cm)
1	10	10	100	100	200
2	15	15	80	80	160
3	18	18	4	244	978
4	25	25	3	381	1527

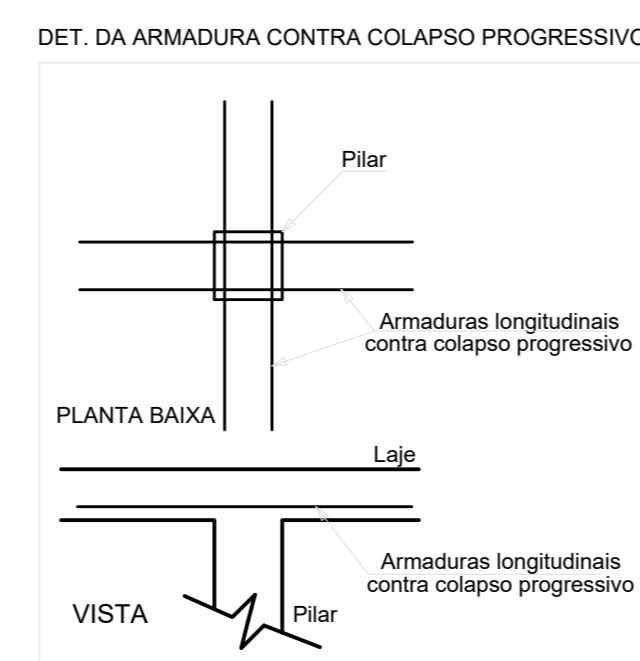
RESUMO DO AÇO

CLASS	DIAM (mm)	C. TOTAL (cm)	PESO +10% (kg)
1	10	200	153,3
2	15	160	130,4
3	18	244	45,9
4	25	381	358,3

Volume de concreto (C=450) = 0,90 m³  
Área da forma = 0,03 m²



Detalhamento de Punção e Cisalhamento das Lajes do Pavimento Salão de Eventos (Nível 473)  
escala 1:50



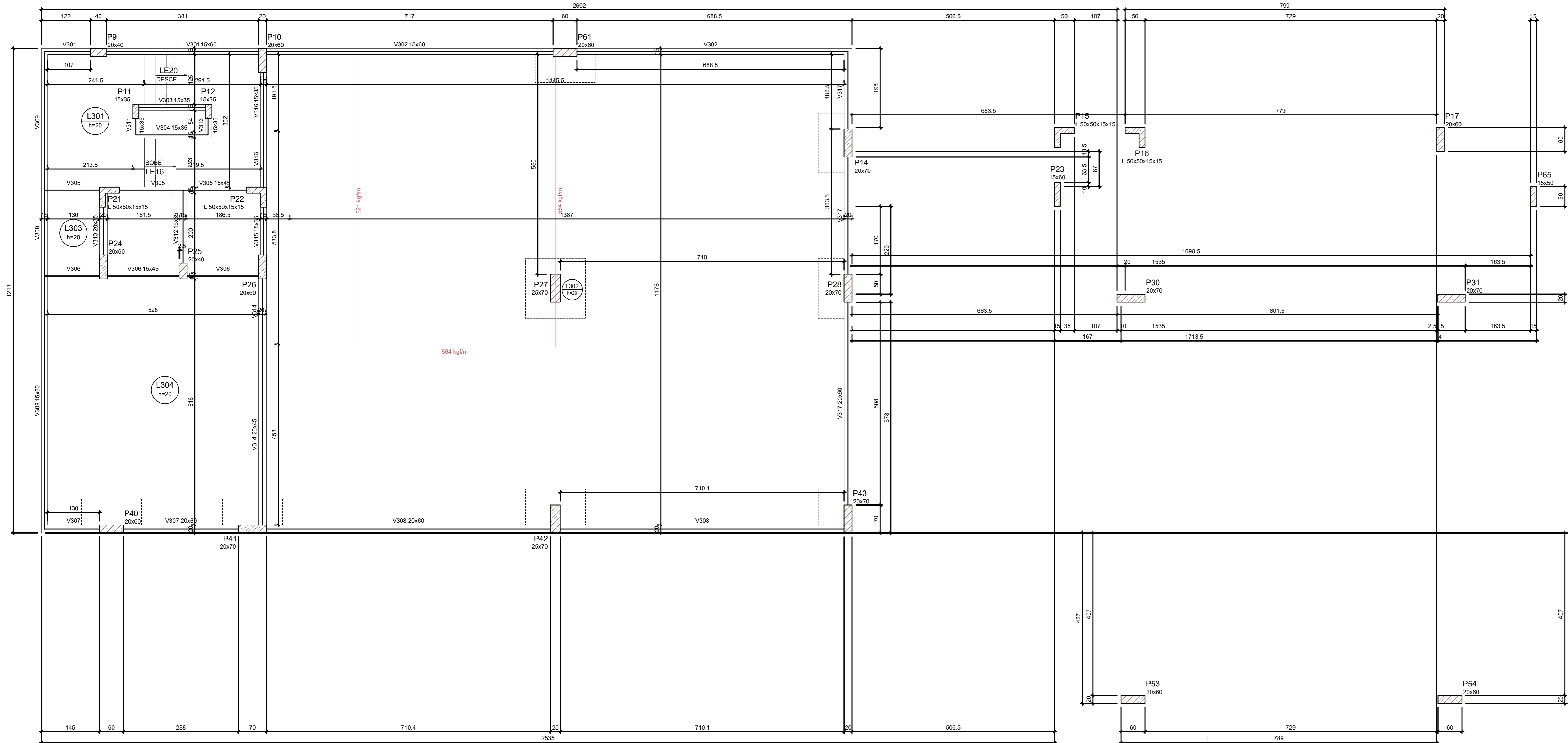
Revisões da prancha

Nº	Descrição	Data
-	-	-
-	-	-
-	-	-
-	-	-

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO



Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V301	15x35	0	660
V302	15x60	0	660
V303	15x35	0	660
V304	15x35	0	660
V305	15x45	0	660
V306	15x45	0	660
V307	20x80	0	660
V308	20x80	0	660
V309	15x80	0	660
V310	20x35	0	660
V311	15x35	0	660
V312	15x35	0	660
V313	15x35	0	660
V314	20x45	0	660
V315	15x35	0	660
V316	15x35	0	660
V317	20x90	0	660

Nome	Tip	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kg/m²)	Adicional	Localizada
L301	Moldura	20	0	660	500	154	sm
L302	Moldura	20	0	660	500	162	sm
L303	Moldura	20	0	660	500	154	sm
L304	Moldura	20	0	660	500	154	sm

Características das materiais	Ik	Eca
Armadura	335/558	

Dimensão máxima do agregado = 19 mm

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P01	20x60	0	660
P10	20x60	0	660
P11	15x35	0	660
P12	15x35	0	660
P14	20x70	0	660
P15	L 50x50x15x15	0	660
P16	L 50x50x15x15	0	660
P17	20x60	0	660
P21	L 50x50x15x15	0	660
P22	L 50x50x15x15	0	660
P23	15x60	0	660
P24	20x60	0	660
P25	20x40	0	660
P26	20x60	0	660
P27	25x70	0	660
P28	20x70	0	660
P30	20x70	0	660
P31	20x70	0	660
P40	20x60	0	660
P41	20x70	0	660
P42	25x70	0	660
P43	20x70	0	660
P44	20x60	0	660
P45	20x60	0	660
P53	20x60	0	660
P54	20x60	0	660

Legenda dos pilares	Legenda das vigas e paredes

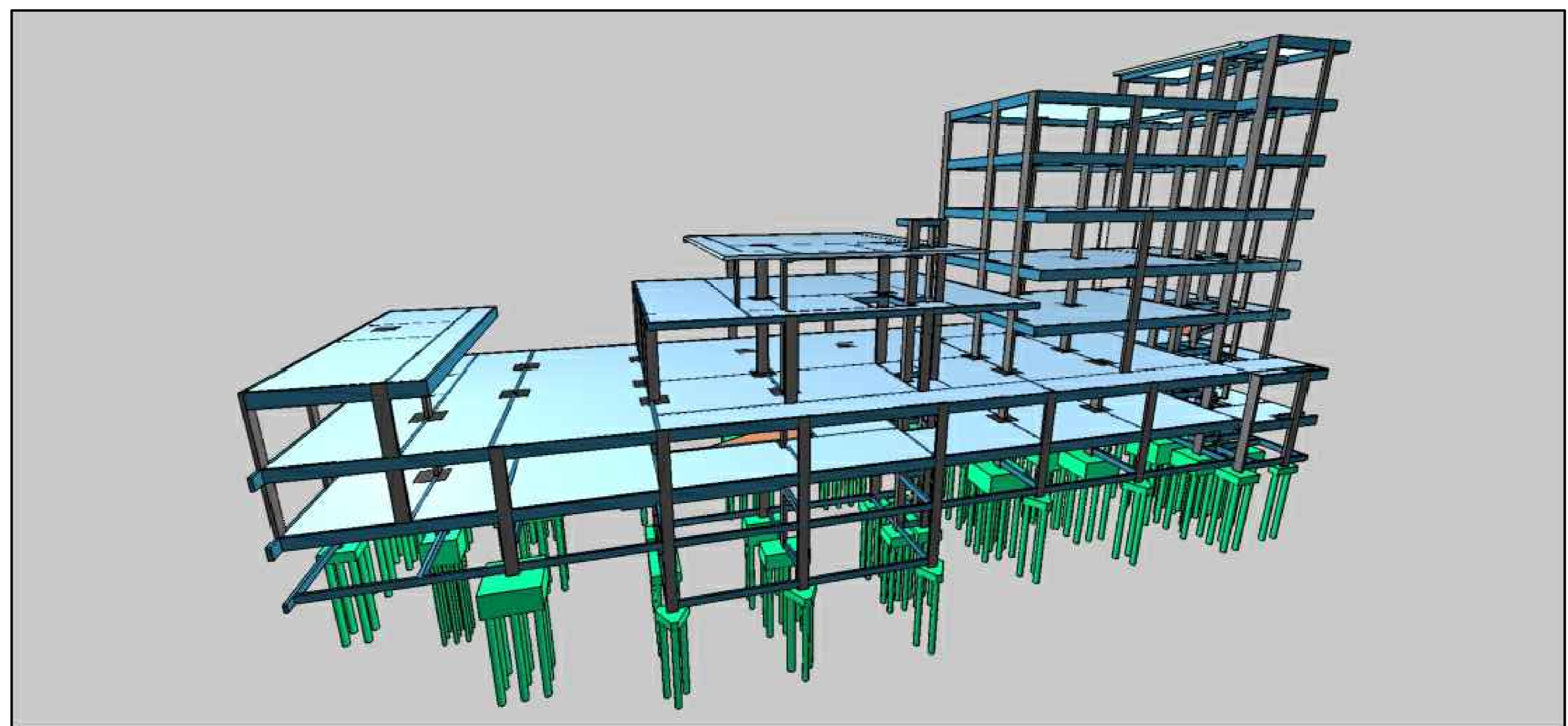
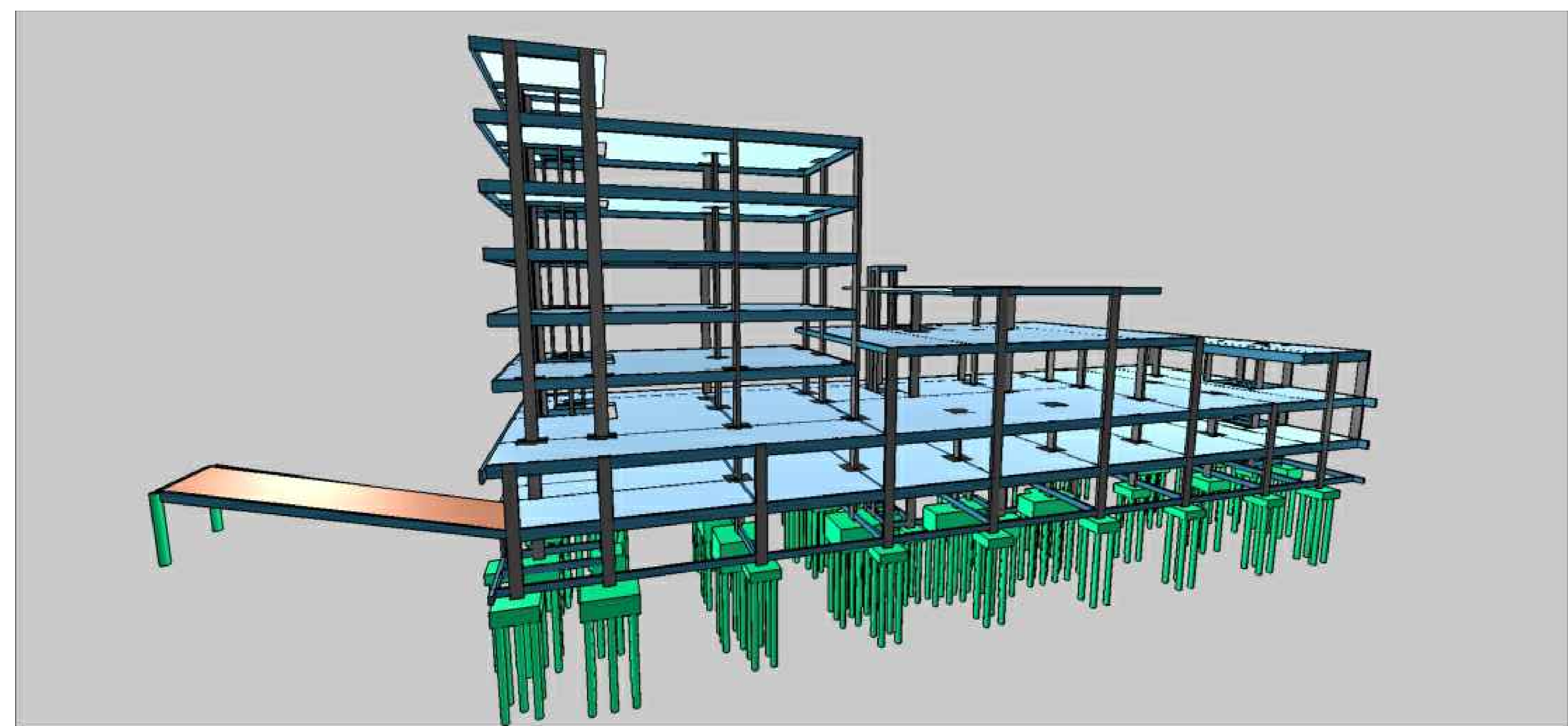
Forma do Pavimento 3º Pav. (Nível 660)  
escala 1:50

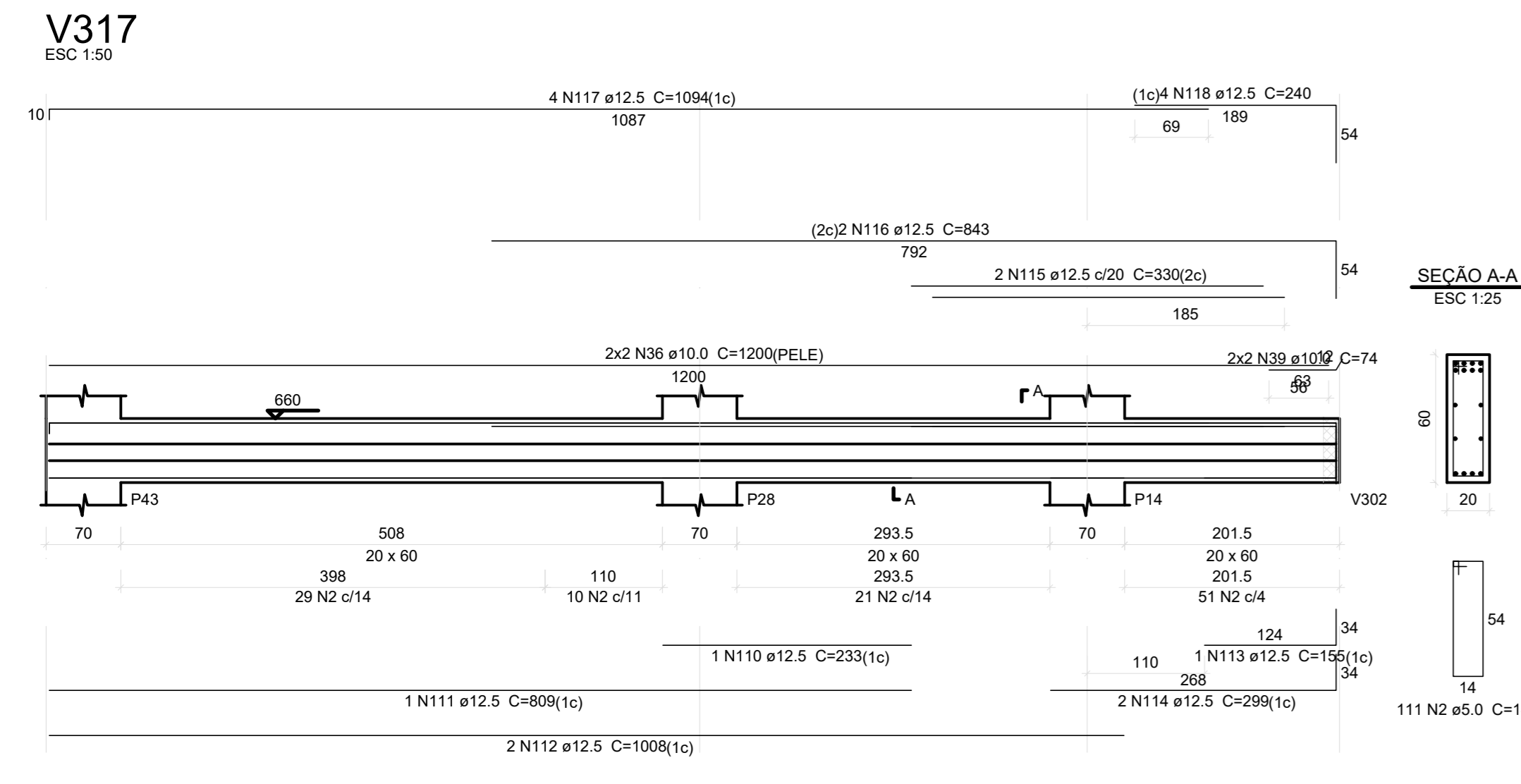
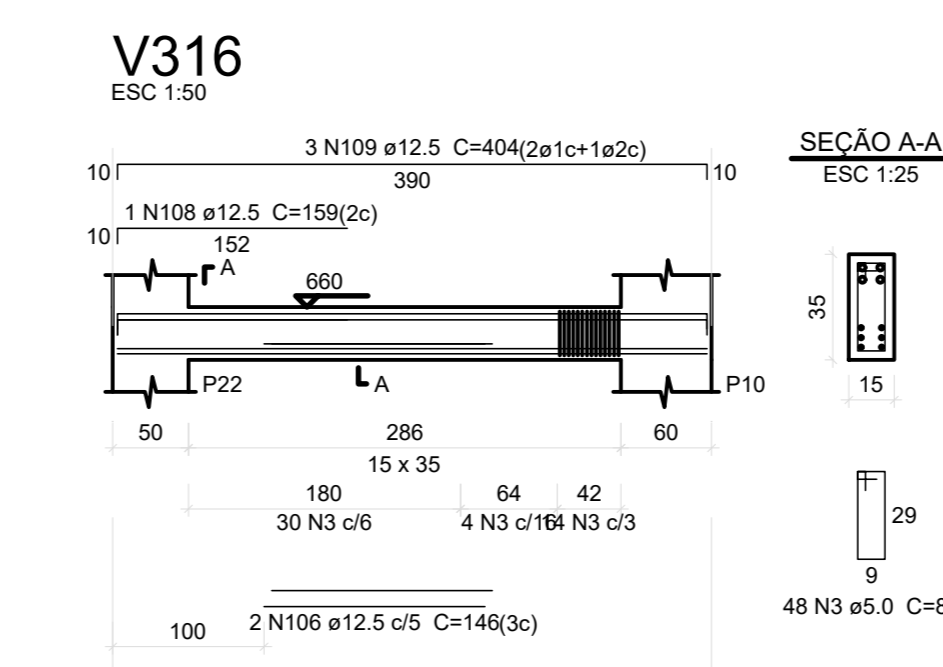
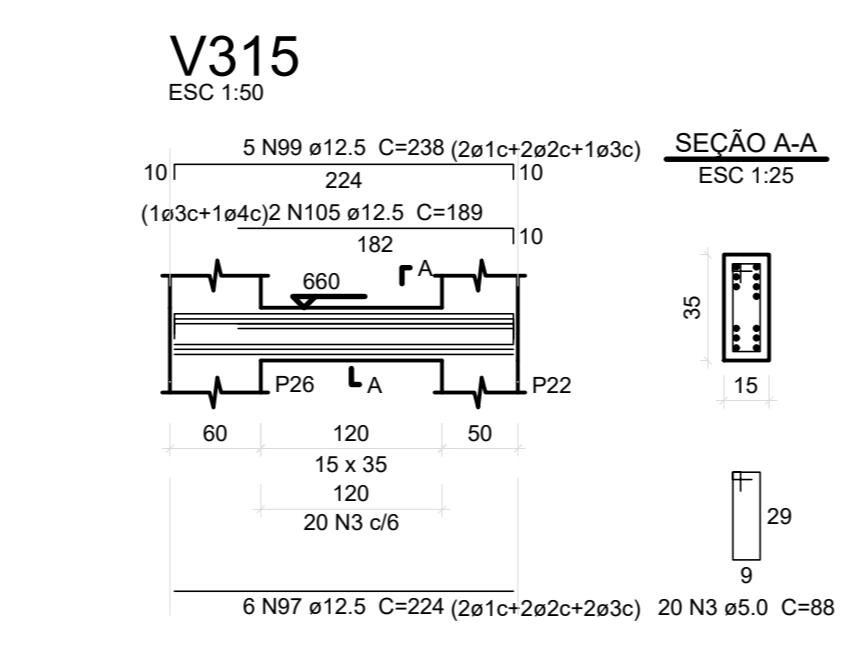
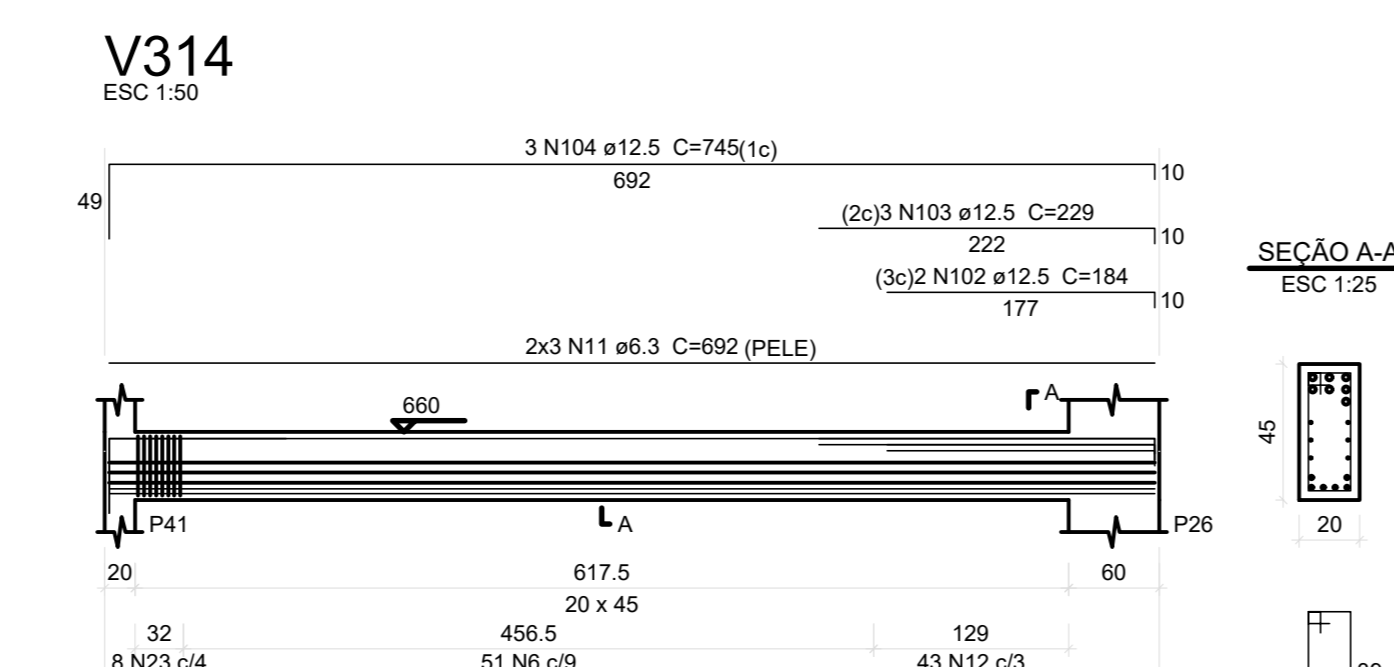
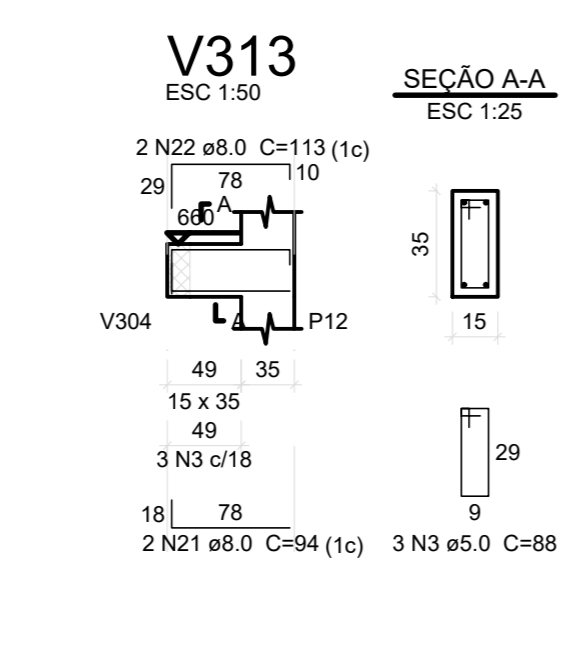
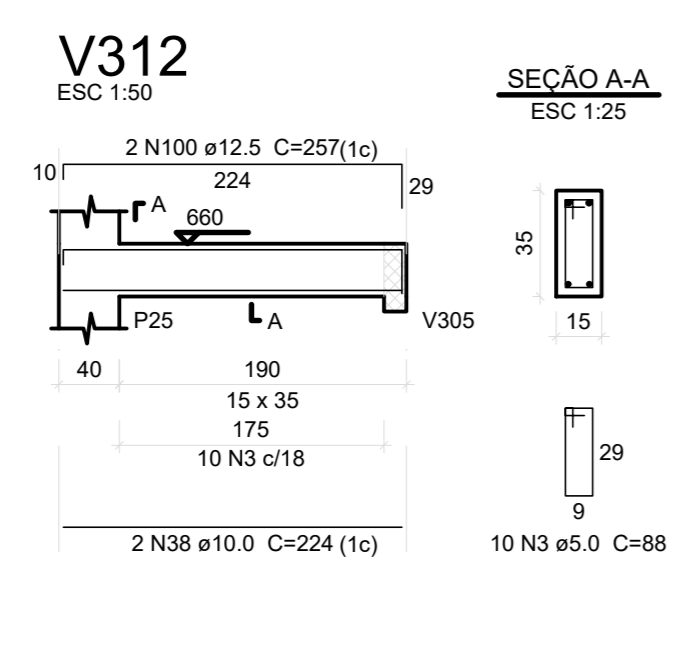
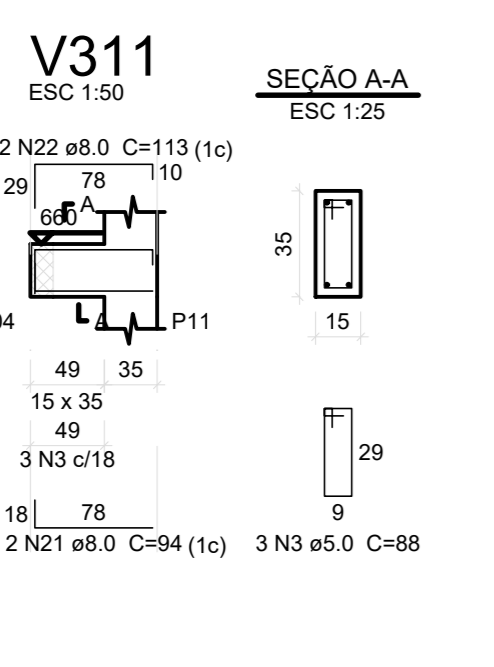
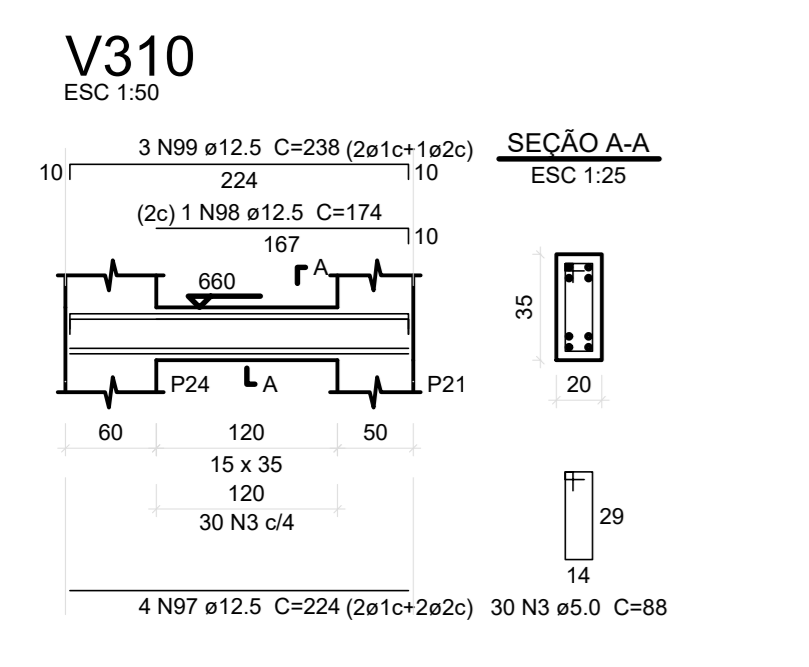
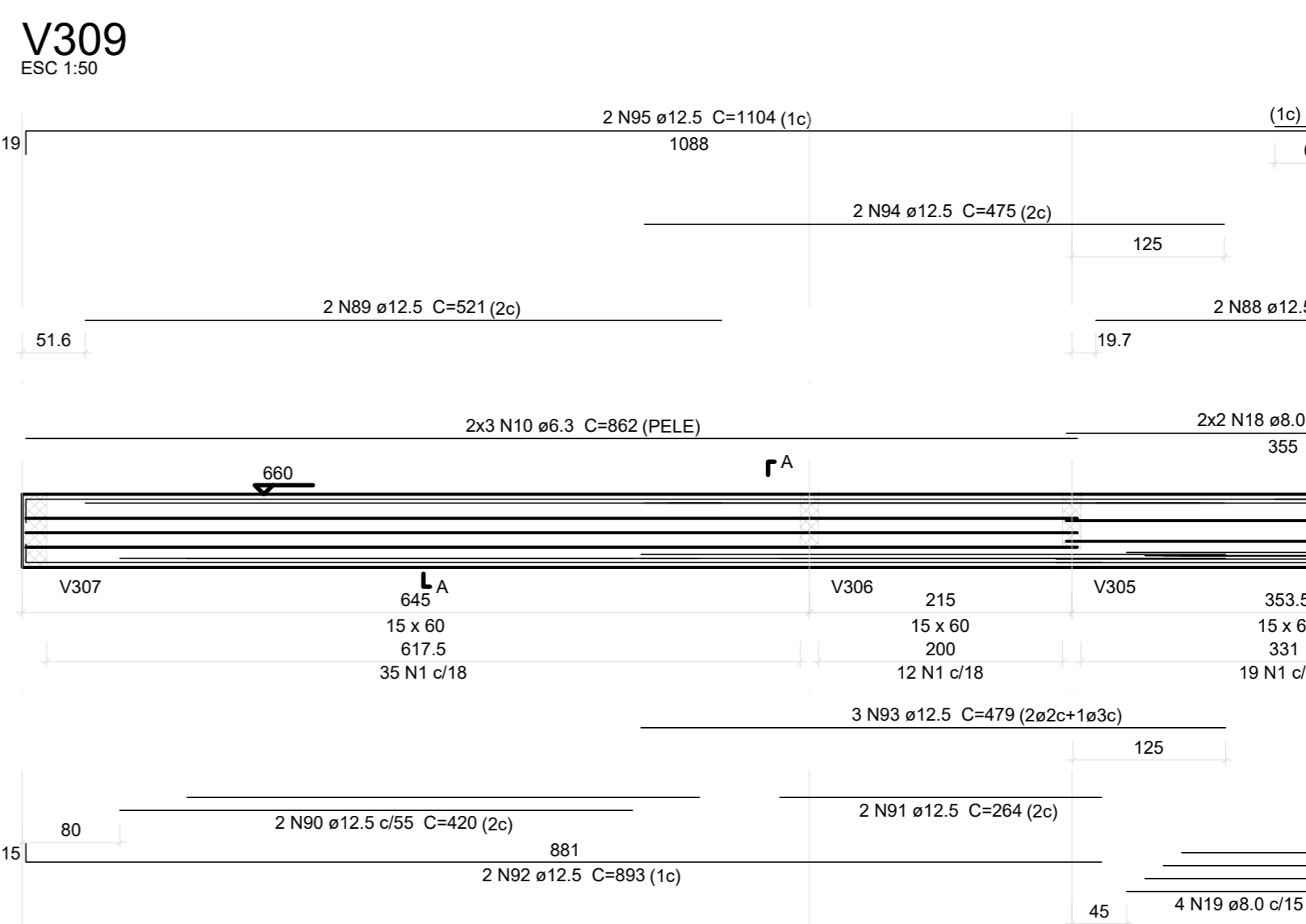
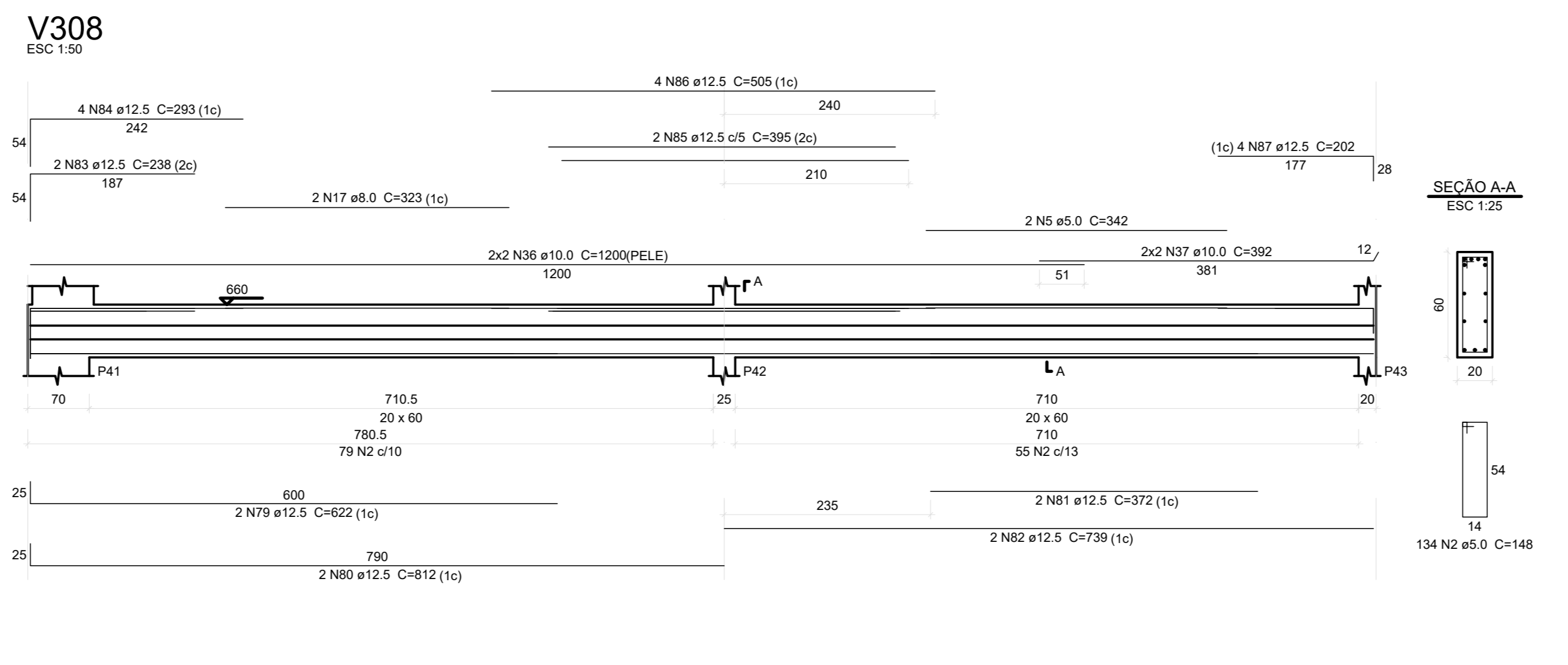
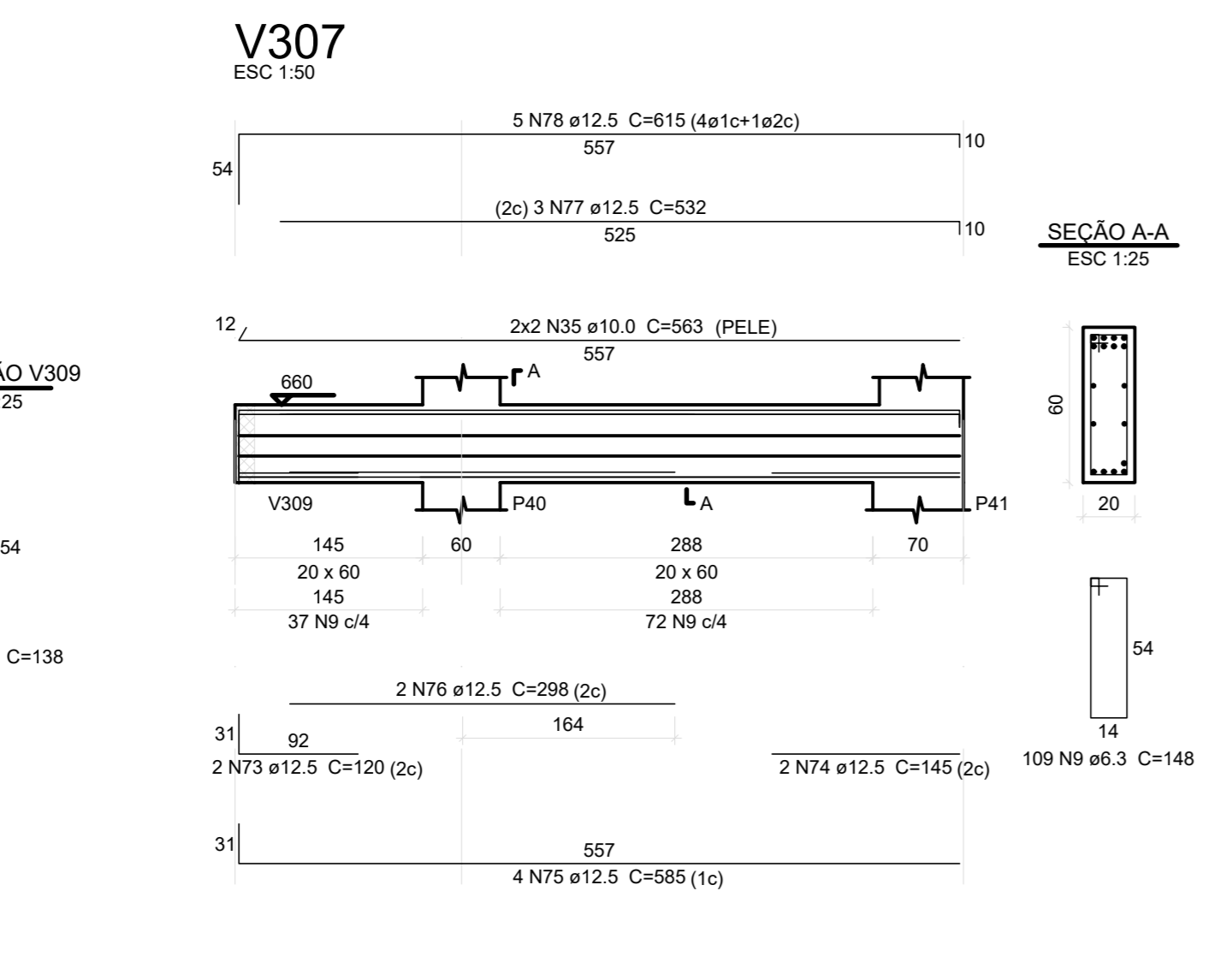
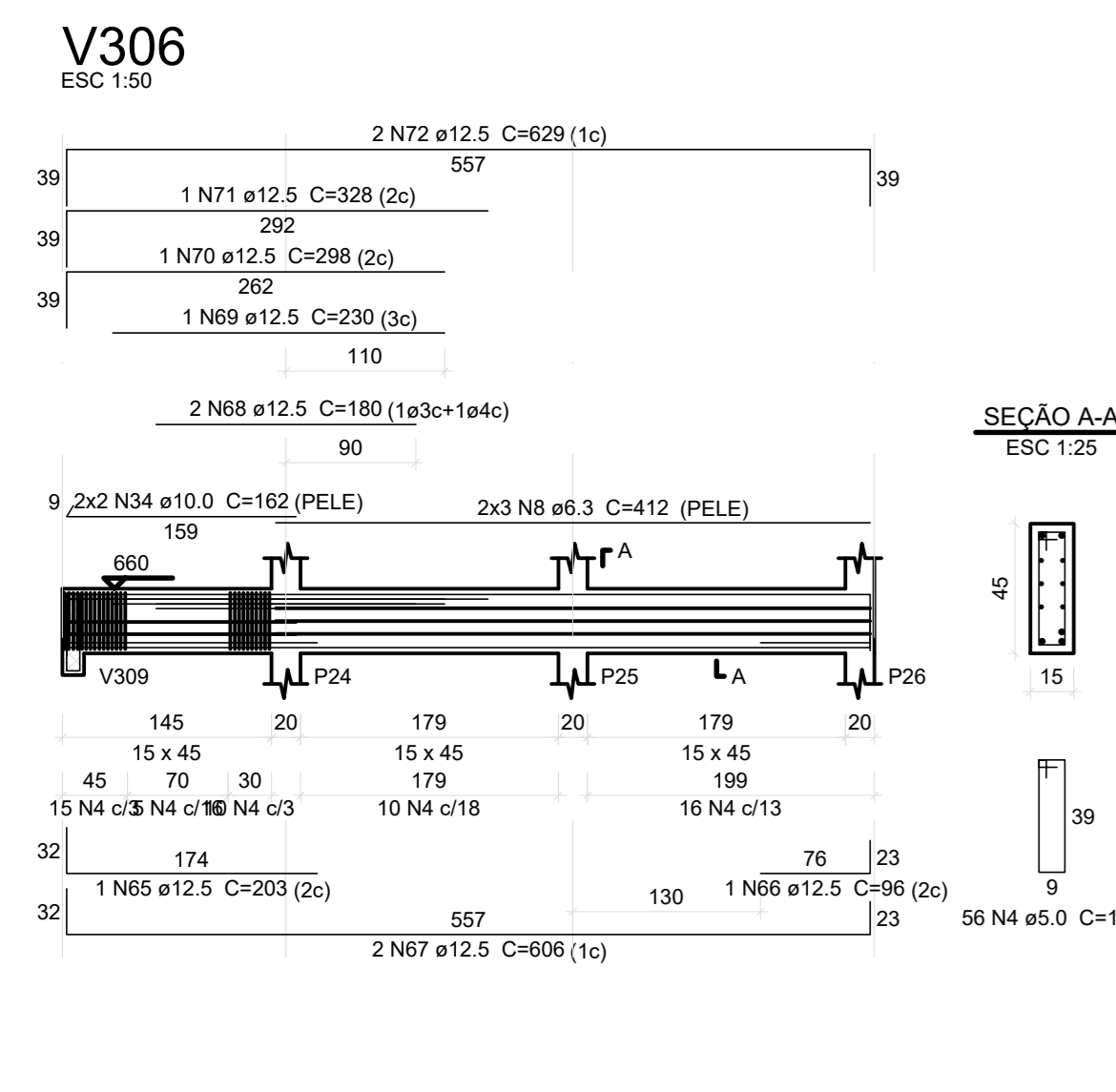
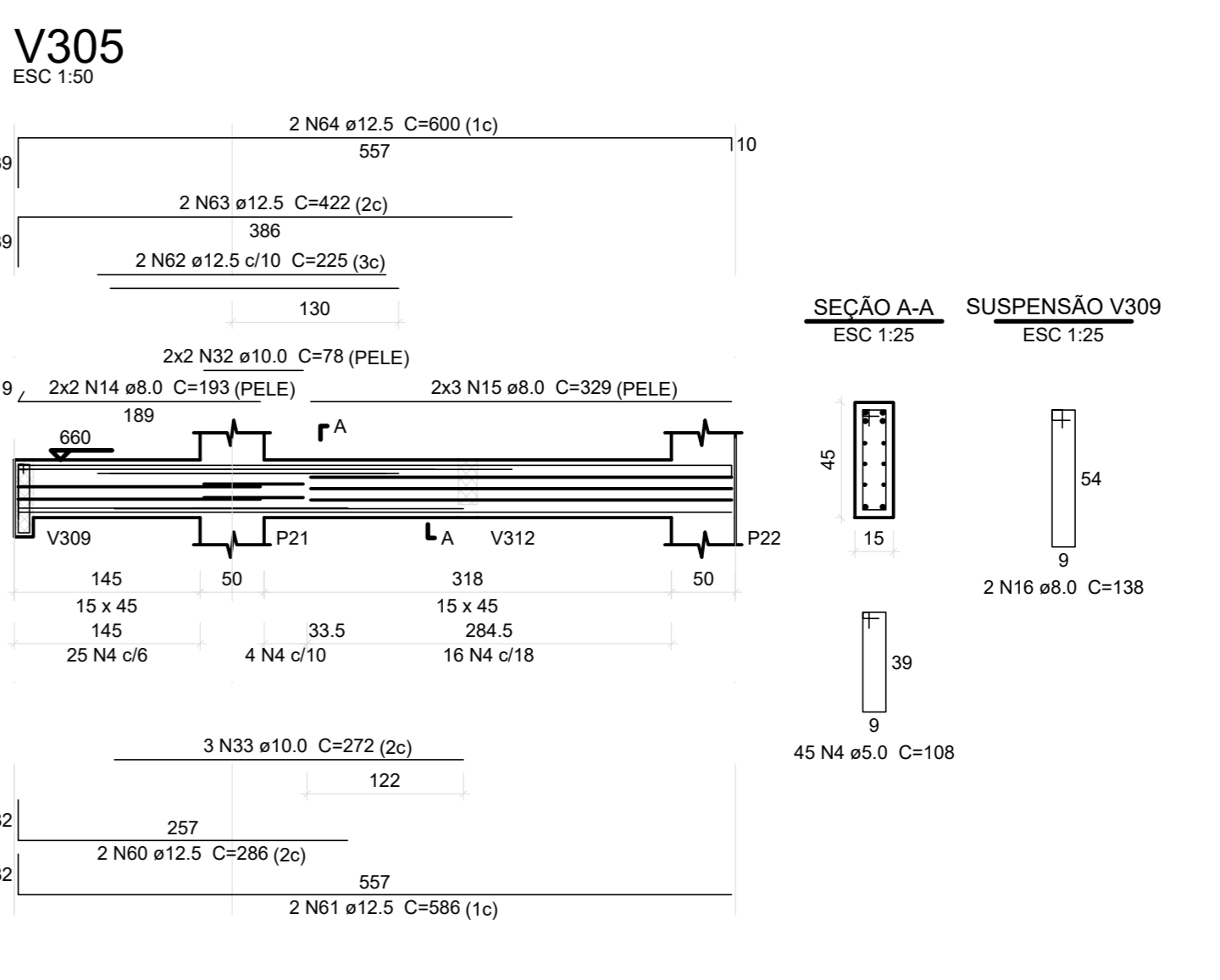
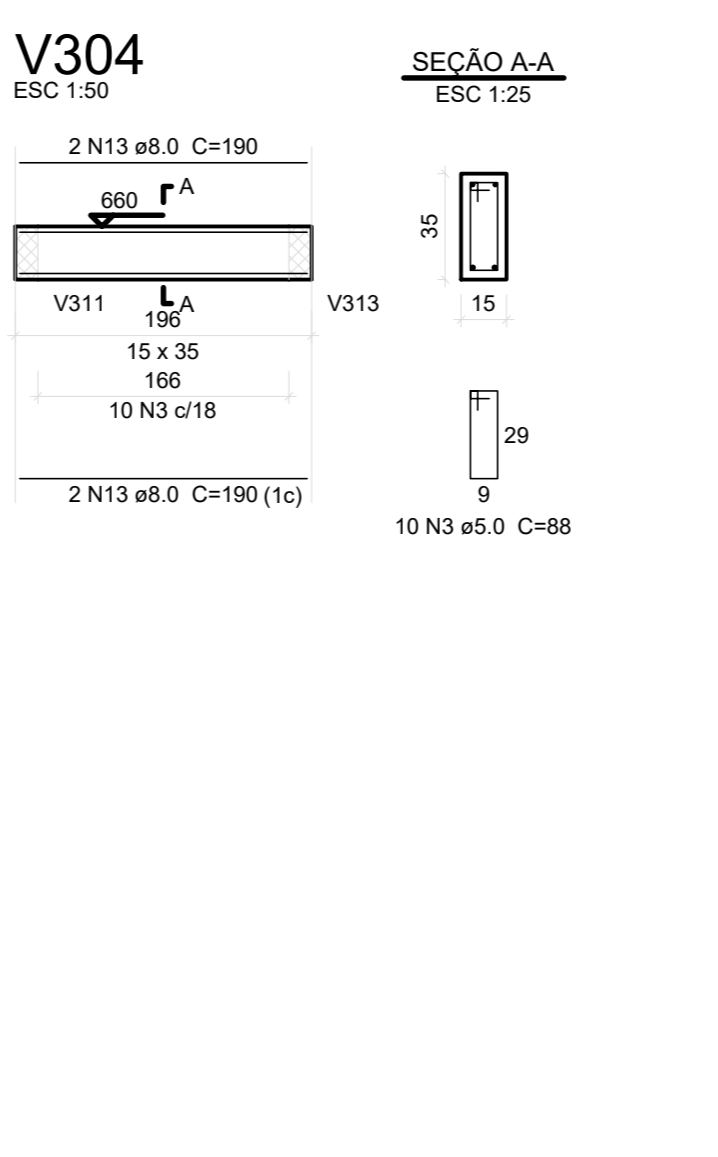
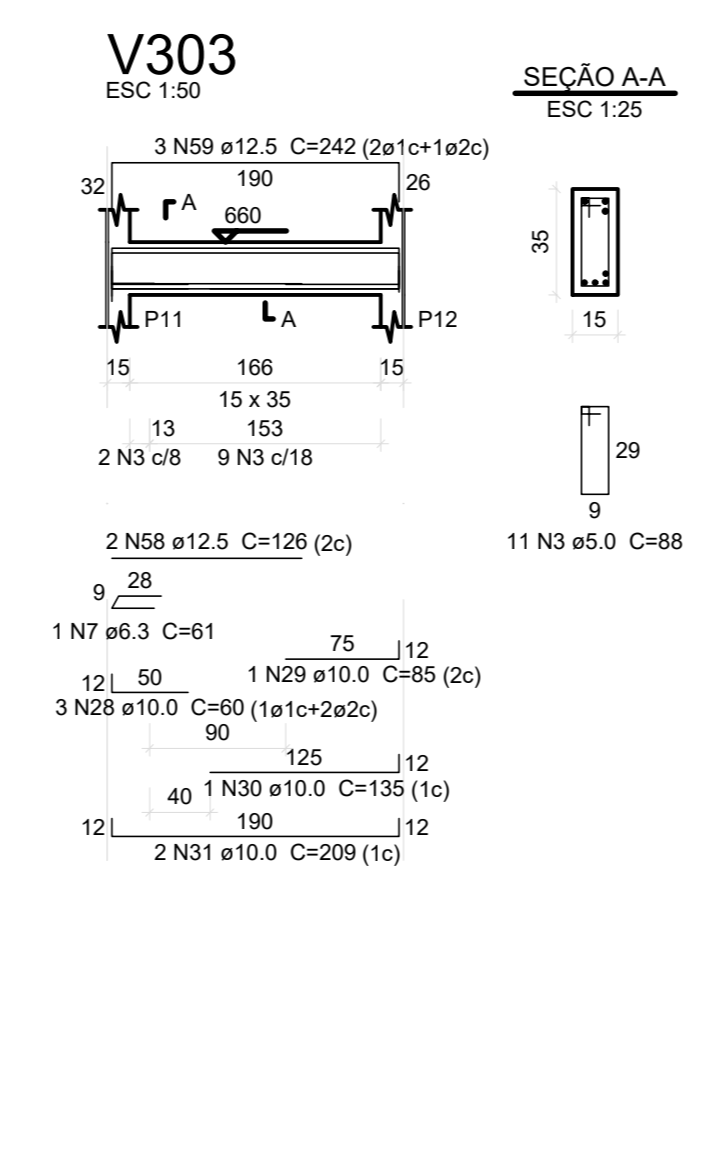
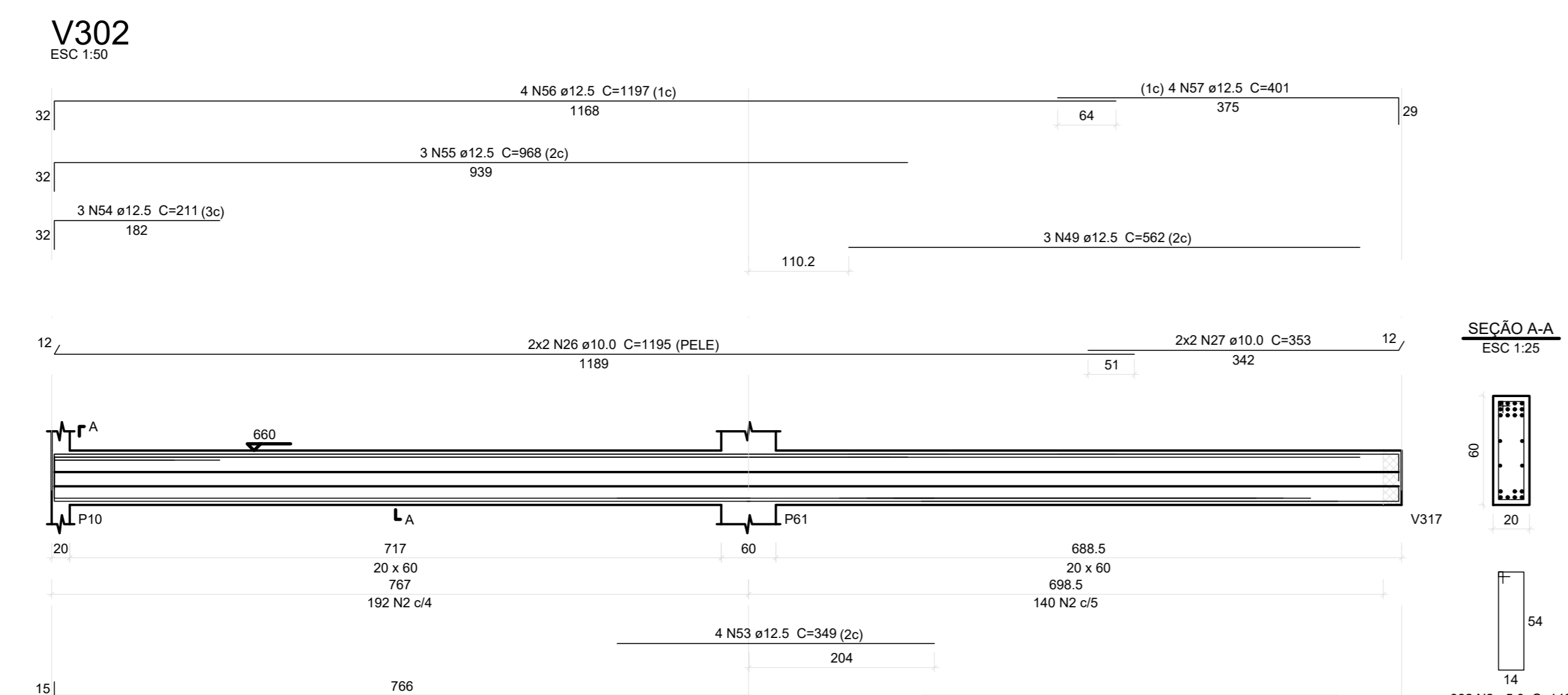
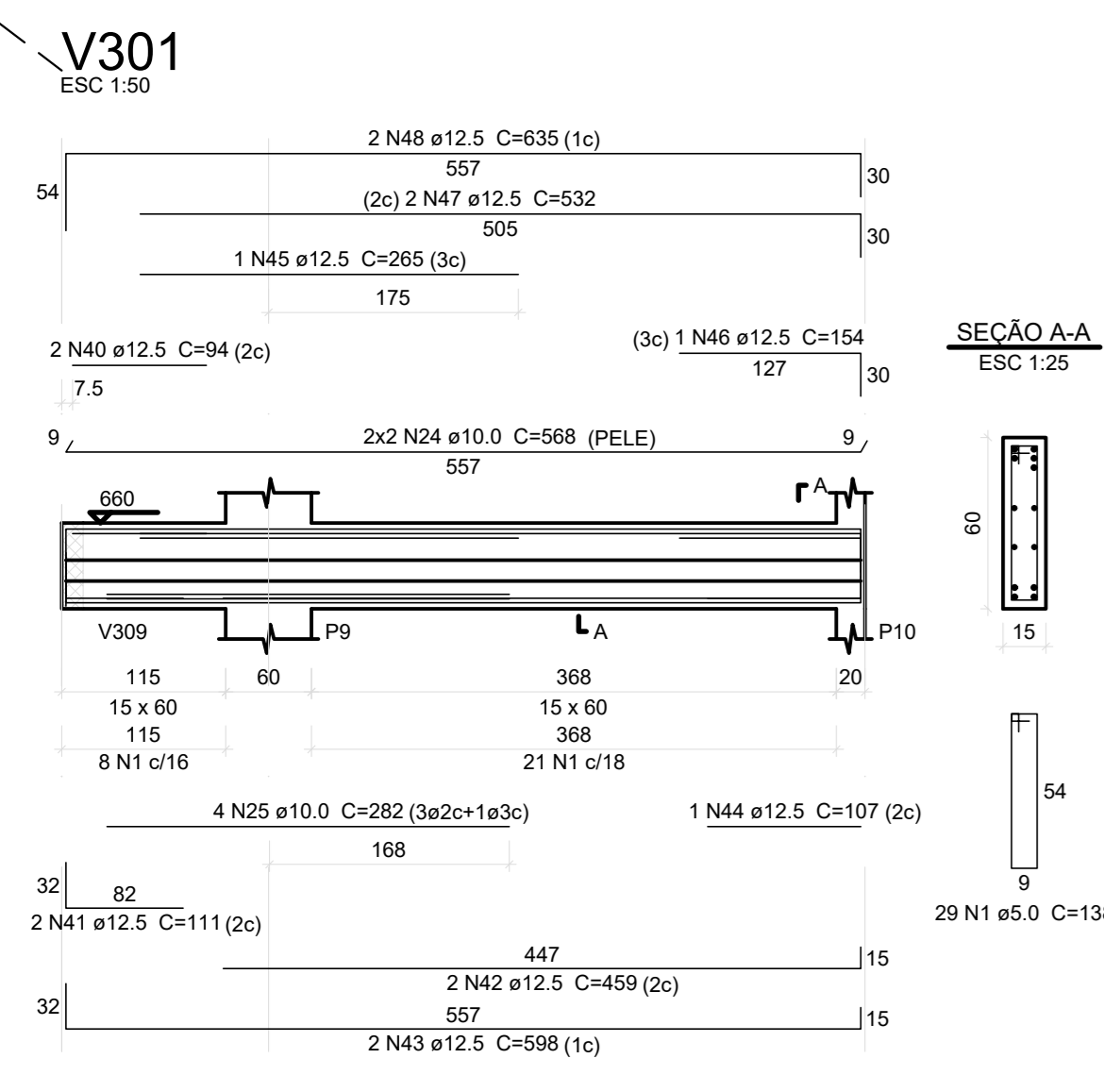
Revisões da prancha		
-		
-		
-		
-		

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_





ACO	N	DIAM (mm)	QUANT	CLUNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	95	138	13110
	2	5.0	577	148	85396
	3	5.0	135	180	24300
	4	5.0	101	108	10908
	5	5.0	2	58	116
	6	5.0	51	118	6018
	7	5.0	1	45	45
	8	6.3	6	412	2472
	9	6.3	109	148	16132
	10	6.3	6	262	1572
	11	6.3	1	180	180
	12	6.3	43	118	5074
	13	8.0	4	190	760
	14	8.0	4	190	760
	15	8.0	6	329	1974
	16	8.0	2	138	276
	17	8.0	2	323	646
	18	8.0	1	340	340
	19	8.0	4	236	944
	20	8.0	6	371	2226
	21	8.0	4	94	376
	22	8.0	1	113	113
	23	8.0	6	118	944
	24	10.0	4	568	2272
	25	10.0	3	1128	3384
	26	10.0	4	1195	4780
	27	10.0	4	1412	5648
	28	10.0	3	60	180
	29	10.0	1	85	85
	30	10.0	1	135	135
	31	10.0	2	300	600
	32	10.0	4	78	312
	33	10.0	4	162	648
	34	10.0	4	162	648
	35	10.0	4	563	2252
	36	10.0	8	1200	9600
	37	10.0	4	392	1568
	38	10.0	2	224	448
	39	10.0	4	74	296
	40	12.5	2	94	188
	41	12.5	2	111	222
	42	12.5	1	459	459
	43	12.5	2	598	1196
	44	12.5	1	107	107
	45	12.5	1	205	205
	46	12.5	1	154	154
	47	12.5	2	1024	2048
	48	12.5	2	635	1270
	49	12.5	3	662	1986
	50	12.5	7	778	5446
	51	12.5	3	1377	4131
	52	12.5	4	729	2916
	53	12.5	4	349	1396
	54	12.5	3	211	633
	55	12.5	3	460	1380
	56	12.5	4	1197	4788
	57	12.5	4	401	1604
	58	12.5	2	252	504
	59	12.5	3	242	726
	60	12.5	2	296	592
	61	12.5	2	586	1172
	62	12.5	2	662	1324
	63	12.5	2	422	844
	64	12.5	2	600	1200
	65	12.5	1	203	203
	66	12.5	2	606	1212
	67	12.5	2	180	360
	68	12.5	1	298	298
	69	12.5	1	298	298
	70	12.5	1	298	298
	71	12.5	2	629	1258
	72	12.5	2	585	1170
	73	12.5	2	145	290
	74	12.5	2	298	596
	75	12.5	2	298	596
	76	12.5	2	298	596
	77	12.5	1	203	203
	78	12.5	5	615	3075
	79	12.5	2	622	1244
	80	12.5	2	312	624
	81	12.5	2	372	744
	82	12.5	2	738	1476
	83	12.5	2	238	476
	84	12.5	2	1172	2344
	85	12.5	2	396	792
	86	12.5	1	203	203
	87	12.5	4	202	808
	88	12.5	2	326	652
	89	12.5	2	514	1028
	90	12.5	2	430	860
	91	12.5	2	478	956
	92	12.5	2	893	1786
	93	12.5	3	478	1437
	94	12.5	2	475	950
	95	12.5	2	1104	2208
	96	12.5	2	200	400
	97	12.5	60	214	12840
	98	12.5	1	174	174
	99	12.5	8	238	1904
	100	12.5	2	227	454
	101	12.5	6	704	4224
	102	12.5	2	184	368
	103	12.5	3	229	687
	104	12.5	3	145	435
	105	12.5	2	189	378
	106	12.5	2	148	296
	107	12.5	4	390	1560
	108	12.5	1	159	159
	109	12.5	3	404	1212
	110	12.5	1	233	233
	111	12.5	1	808	808
	112	12.5	2	1008	2016
	113	12.5	1	155	155
	114	12.5	2	299	598
	115	12.5	2	330	660
	116	12.5	2	843	1686
	117	12.5	4	1004	4016
	118	12.5	4	340	1360
	119	12.5	4	340	1360

**Resumo do aço**

ACO	DIAM	C.TOTAL	RESO + 10 %
CA60	5.0	217	80
	6.3	330.1	80
	8.0	112.4	48.8
	10.0	263.5	118.7
	12.5	381.2	86.7
CA60	5.0	1290	217
<b>RESO TOTAL</b>			
CA50	1303.1		
CA60	217		
Volume de concreto (C45) = 7.25 m³			
Volume de concreto (C40) = 1.2 m³			
Área de forma = 124.83 m²			

Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

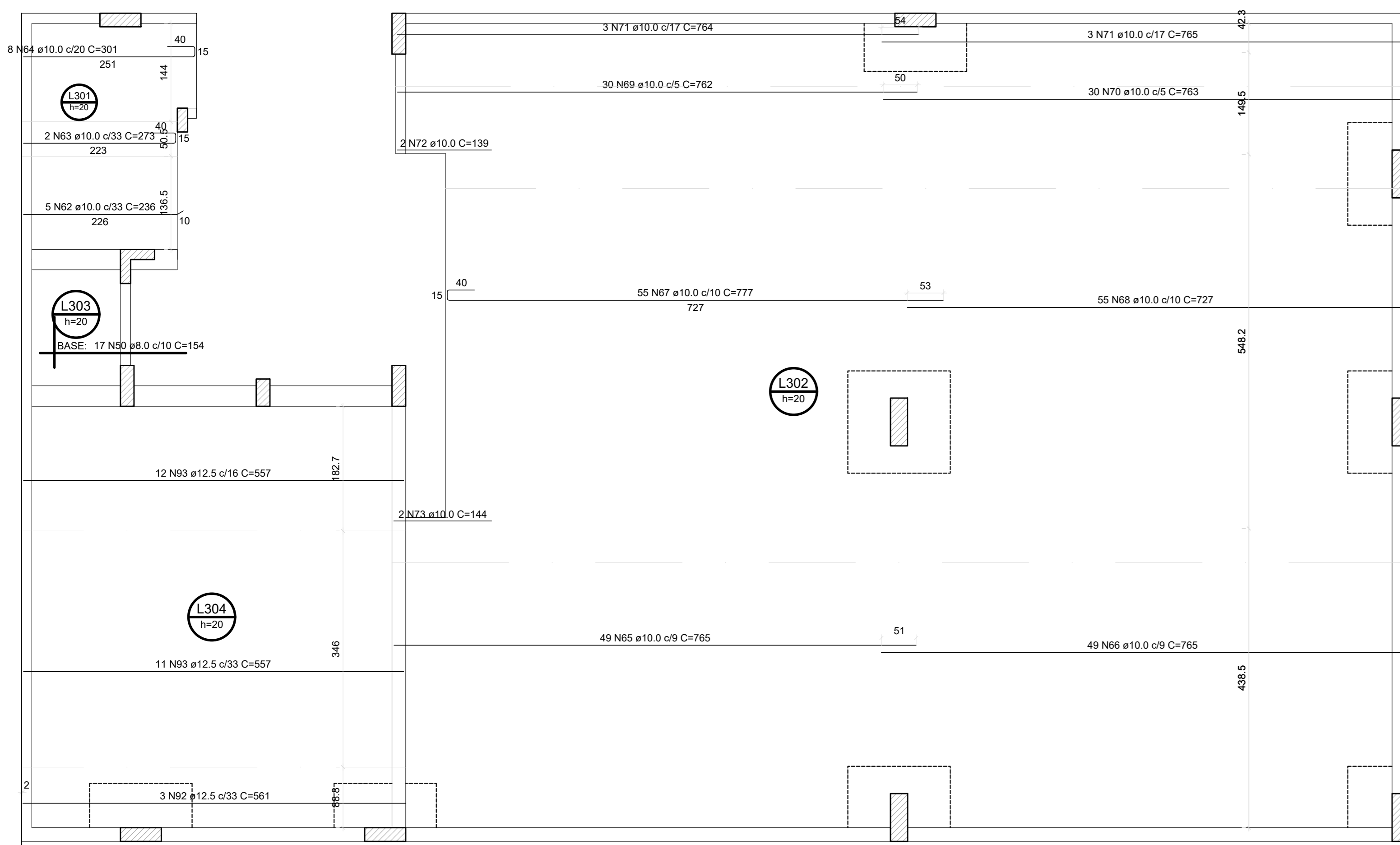
SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO: CREA: 21.401-D-DF  
 RESP. TÉCNICO

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: F<sub>ck</sub> = 40 MPa FATOR A/C < 0.60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contêúdo: ARMAÇÃO DAS VIGAS DO PAVIMENTO 3º PAVIMENTO  
 Data: 22/06/2022 | A. Low: 2.000,00mm² | Escala: 1:50

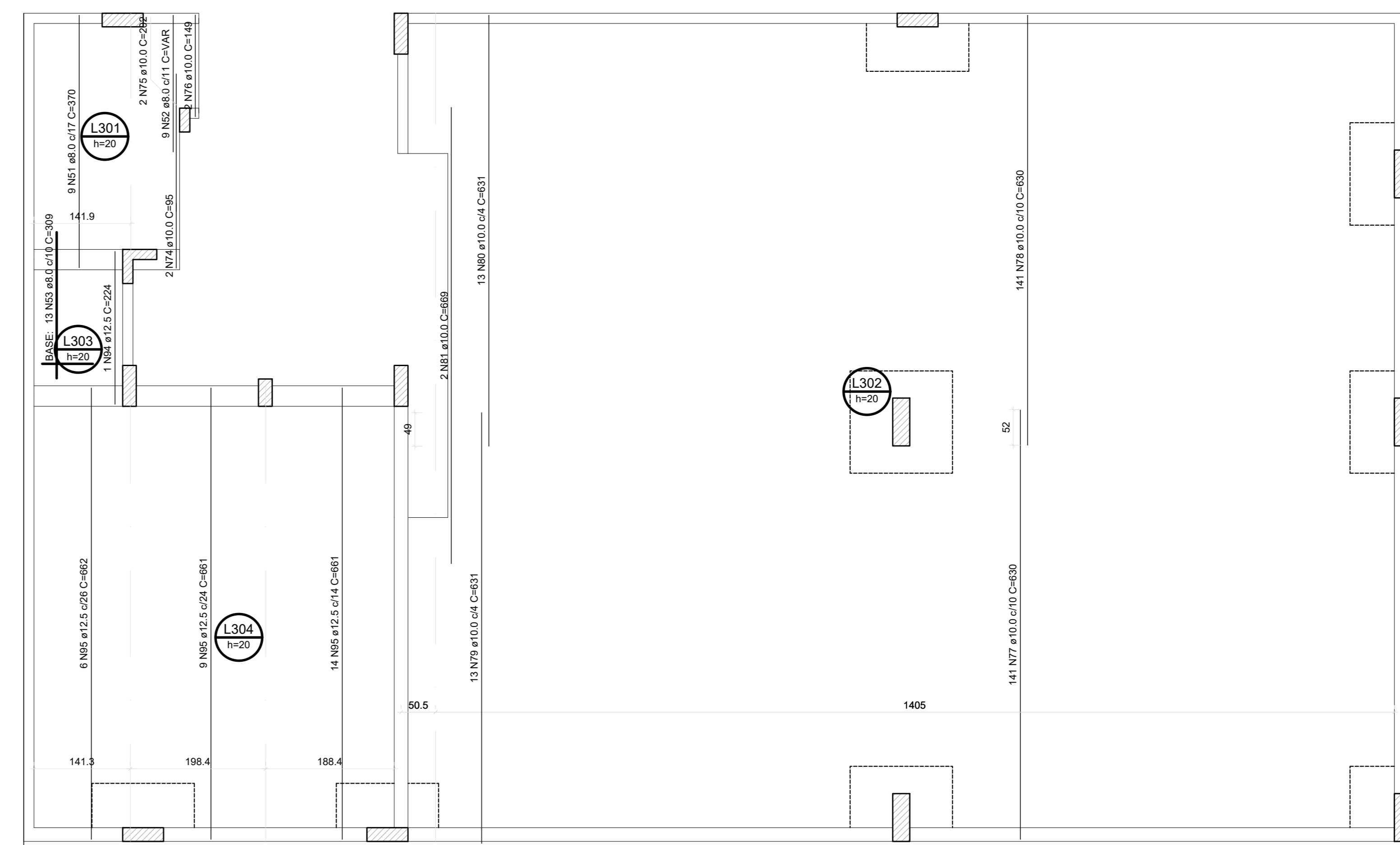
Prancha: ESTRUTURA 3

**53/84**



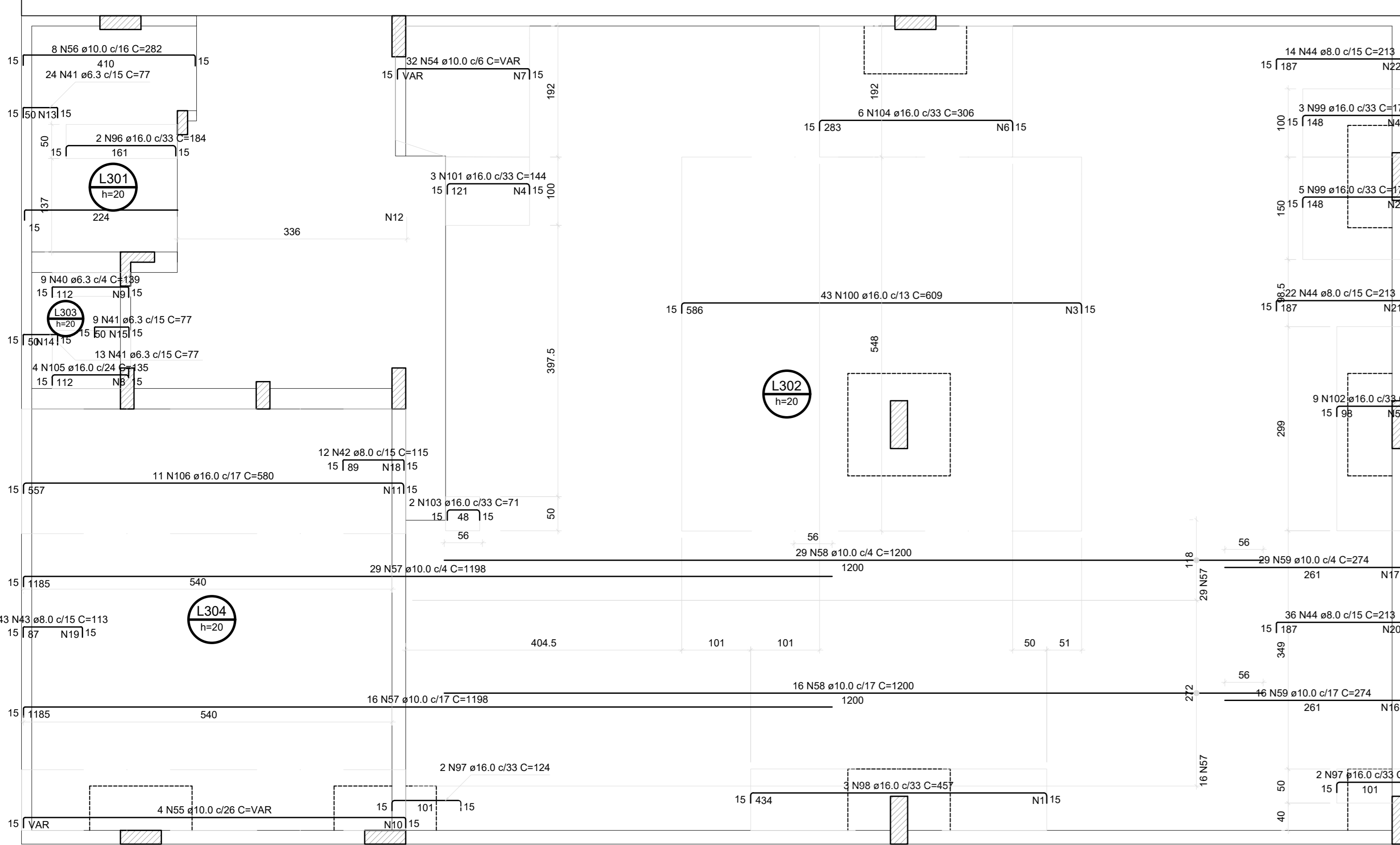
Armação Positiva das Lajes do Pavimento 3º Pav. (Eixo X)

escala 1:50



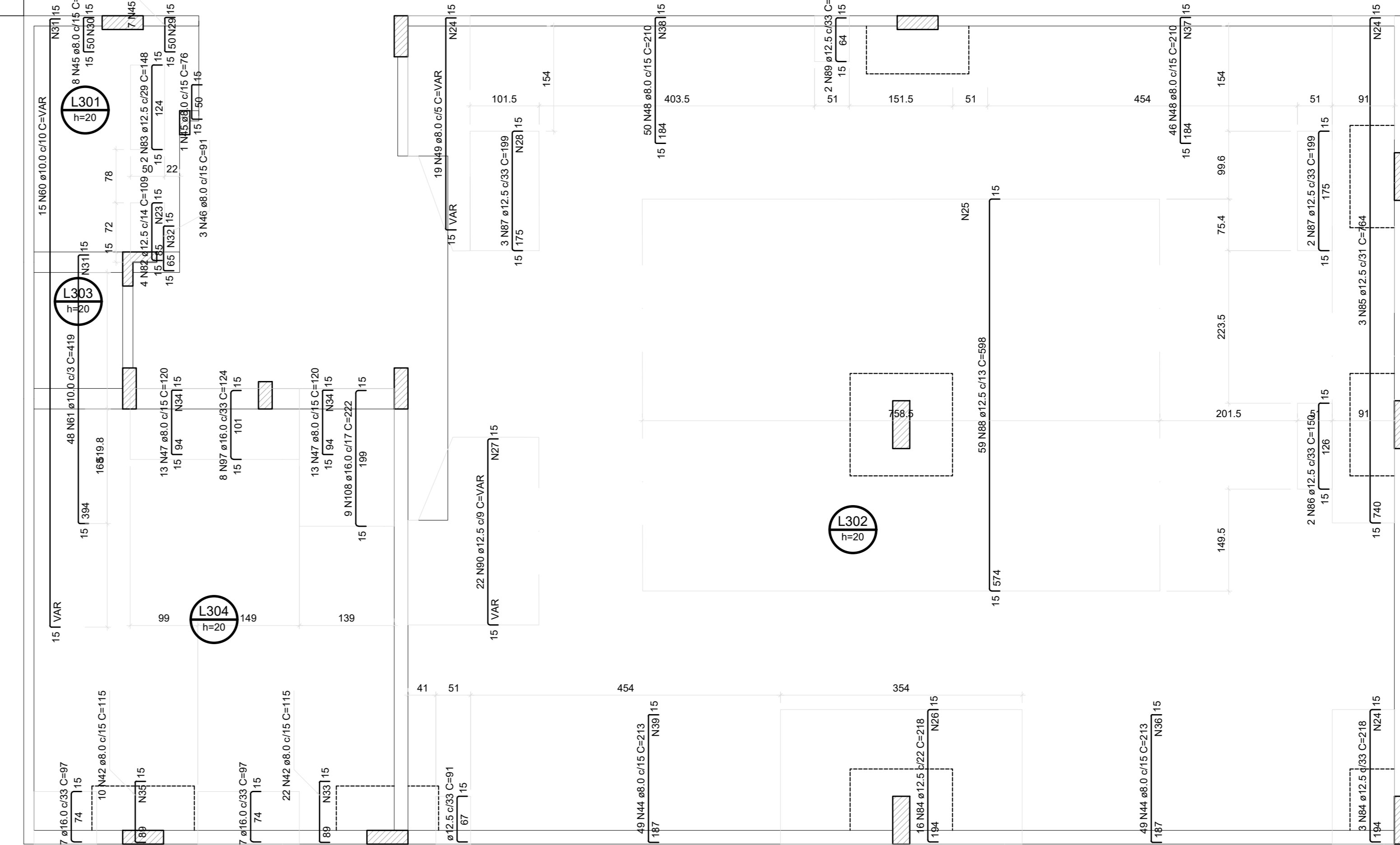
Armação Positiva das Lajes do Pavimento 3º Pav. (Eixo Y)

escala 1:50



Armação Negativa das Lajes do Pavimento 3º Pav. (Eixo X)

escala 1:50



Armação Negativa das Lajes do Pavimento 3º Pav. (Eixo Y)

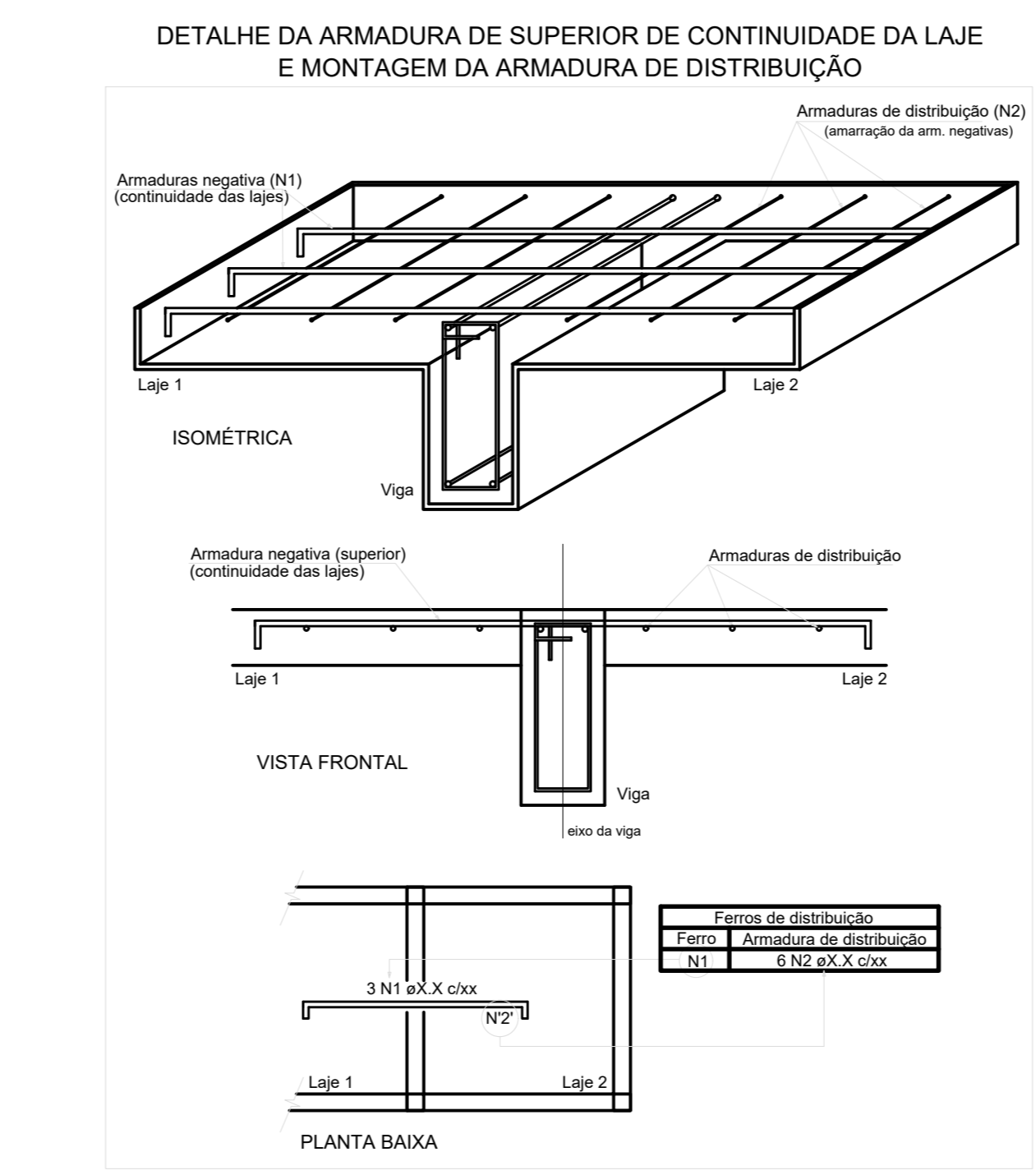
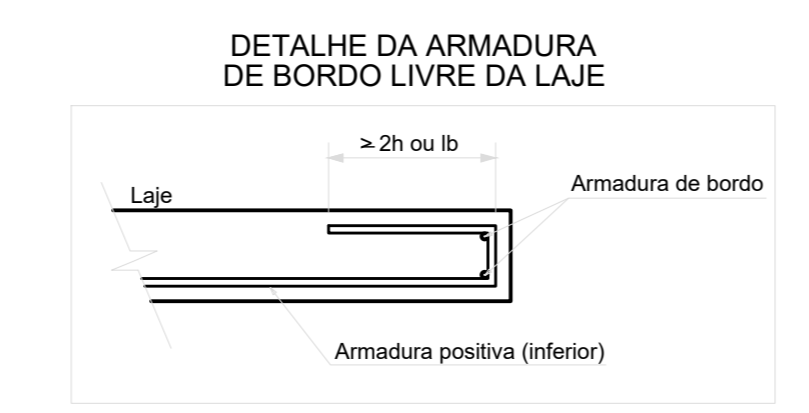
escala 1:50

Armaduras de distribuição

Armadura	Armadura de distribuição
N89	34 N1 ø5.0 c/13 C=60
N90	12 N2 ø5.0 c/13 C=150
N100	86 N2 ø5.0 c/8 C=548
N101	10 N4 ø5.0 c/13 C=100
N102	8 N5 ø5.0 c/13 C=299
N104	22 N6 ø5.0 c/13 C=192
N54	28 N7 ø5.0 c/7 C=VAR
N89	12 N8 ø5.0 c/13 C=100
N105	11 N8 ø5.0 c/11 C=85
N40	10 N9 ø5.0 c/12 C=35
N55	42 N10 ø5.0 c/13 C=VAR
N106	70 N11 ø5.0 c/8 C=183
N56	33 N12 ø5.0 c/17 C=123
N41	4 N13 ø5.0 c/13 C=354
N41	4 N14 ø5.0 c/13 C=200
N41	4 N15 ø5.0 c/13 C=141
N57	283 N16 ø5.0 c/13 C=77
N57	726 N17 ø5.0 c/5 C=117
N42	7 N18 ø5.0 c/13 C=177
N43	7 N19 ø5.0 c/13 C=643
N44	15 N20 ø5.0 c/13 C=348
N44	15 N21 ø5.0 c/13 C=330
N44	15 N22 ø5.0 c/13 C=211
N46	15 N23 ø5.0 c/13 C=158

Armaduras de distribuição

Armadura	Armadura de distribuição
N82	8 N24 ø5.0 c/11 C=91
N84	15 N24 ø5.0 c/13 C=91
N85	57 N24 ø5.0 c/13 C=91
N88	58 N25 ø5.0 c/10 C=758
N84	15 N26 ø5.0 c/13 C=354
N89	38 N27 ø5.0 c/7 C=VAR
N87	14 N28 ø5.0 c/13 C=101
N88	35 N28 ø5.0 c/9 C=VAR
N45	4 N29 ø5.0 c/13 C=496
N45	4 N30 ø5.0 c/13 C=126
N89	72 N31 ø5.0 c/12 C=VAR
N46	5 N32 ø5.0 c/13 C=47
N89	132 N31 ø5.0 c/13 C=145
N42	7 N33 ø5.0 c/13 C=334
N47	8 N34 ø5.0 c/13 C=199
N47	8 N34 ø5.0 c/13 C=199
N42	7 N35 ø5.0 c/13 C=156
N44	15 N36 ø5.0 c/13 C=732
N48	15 N37 ø5.0 c/13 C=487
N48	15 N38 ø5.0 c/13 C=745
N44	15 N38 ø5.0 c/13 C=741



RELAÇÃO DO AÇO - Lajes do 3º Pavimento

ACO	N	DIAM	QUANT	C UNIT	C TOTAL	REMARKS
CABO	1	10	1	34	340	340
CABO	2	10	1	100	1000	1000
CABO	3	10	1	100	1000	1000
CABO	4	10	1	100	1000	1000
CABO	5	10	1	100	1000	1000
CABO	6	10	1	100	1000	1000
CABO	7	10	1	100	1000	1000
CABO	8	10	1	100	1000	1000
CABO	9	10	1	100	1000	1000
CABO	10	10	1	100	1000	1000
CABO	11	10	1	100	1000	1000
CABO	12	10	1	100	1000	1000
CABO	13	10	1	100	1000	1000
CABO	14	10	1	100	1000	1000
CABO	15	10	1	100	1000	1000
CABO	16	10	1	100	1000	1000
CABO	17	10	1	100	1000	1000
CABO	18	10	1	100	1000	1000
CABO	19	10	1	100	1000	1000
CABO	20	10	1	100	1000	1000
CABO	21	10	1	100	1000	1000
CABO	22	10	1	100	1000	1000
CABO	23	10	1	100	1000	1000
CABO	24	10	1	100	1000	1000
CABO	25	10	1	100	1000	1000
CABO	26	10	1	100	1000	1000
CABO	27	10	1	100	1000	1000
CABO	28	10	1	100	1000	1000
CABO	29	10	1	100	1000	1000
CABO	30	10	1	100	1000	1000
CABO	31	10	1	100	1000	1000
CABO	32	10	1	100	1000	1000
CABO	33	10	1	100	1000	1000
CABO	34	10	1	100	1000	1000
CABO	35	10	1	100	1000	1000
CABO	36	10	1	100	1000	1000
CABO	37	10	1	100	1000	1000
CABO	38	10	1	100	1000	1000
CABO	39	10	1	100	1000	1000
CABO	40	10	1	100	1000	1000
CABO	41	10	1	100	1000	1000
CABO	42	10	1	100	1000	1000
CABO	43	10	1	100	1000	1000
CABO	44	10	1	100	1000	1000
CABO	45	10	1	100	1000	1000
CABO	46	10	1	100	1000	1000
CABO	47	10	1	100	1000	1000
CABO	48	10	1	100	1000	1000
CABO	49	10	1	100	1000	1000
CABO	50	10	1	100	1000	1000
CABO	51	10	1	100	1000	1000
CABO	52	10	1	100	1000	1000
CABO	53	10	1	100	1000	1000
CABO	54	10	1	100	1000	1000
CABO	55	10	1	100	1000	1000
CABO	56	10	1	100	1000	1000
CABO	57	10	1	100	1000	1000
CABO	58	10	1	100	1000	1000
CABO	59	10	1	100	1000	1000
CABO	60	10	1	100	1000	1000
CABO	61	10	1	100	1000	1000
CABO	62	10	1	100	1000	1000
CABO	63	10	1	100	1000	1000
CABO	64	10	1	100	1000	1000
CABO	65	10	1	100	1000	1000
CABO	66	10	1	100	1000	1000
CABO	67	10	1	100	1000	1000
CABO	68	10	1	100	1000	1000
CABO	69	10	1	100	1000	1000
CABO	70	10	1	100	1000	1000
CABO	71	10	1	100	1000	1000
CABO	72	10	1	100	1000	1000
CABO	73	10	1	100	1000	1000
CABO	74	10	1	100	1000	1000
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CABO	79	10	1	100	1000	1000
CABO	80	10	1	100	1000	1000
CABO	81	10	1	100	1000	1000
CABO	82	10	1	100	1000	1000
CABO	83	10	1	100	1000	1000
CABO	84	10	1	100	1000	1000
CABO	85	10	1	100	1000	1000
CABO	86	10	1	100	1000	1000
CABO	87	10	1	100	1000	1000
CABO	88	10	1	100	1000	1000
CABO	89	10	1	100	1000	1000
CABO	90	10	1	100	1000	1000
CABO	91	10	1	100	1000	1000
CABO	92	10	1	100	1000	1000
CABO	93	10	1	100	1000	1000
CABO	94	10	1	100	1000	1000
CABO	95	10	1	100	1000	1000
CABO	96	10	1	100	1000	1000
CABO	97	10	1	100	1000	1000
CABO	98	10	1	100	1000	1000
CABO	99	10	1	100	1000	1000
CABO	100	10	1	100	1000	1000

Revisões da prancha

Nº	Descrição	Data
1	Emissão Inicial	22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

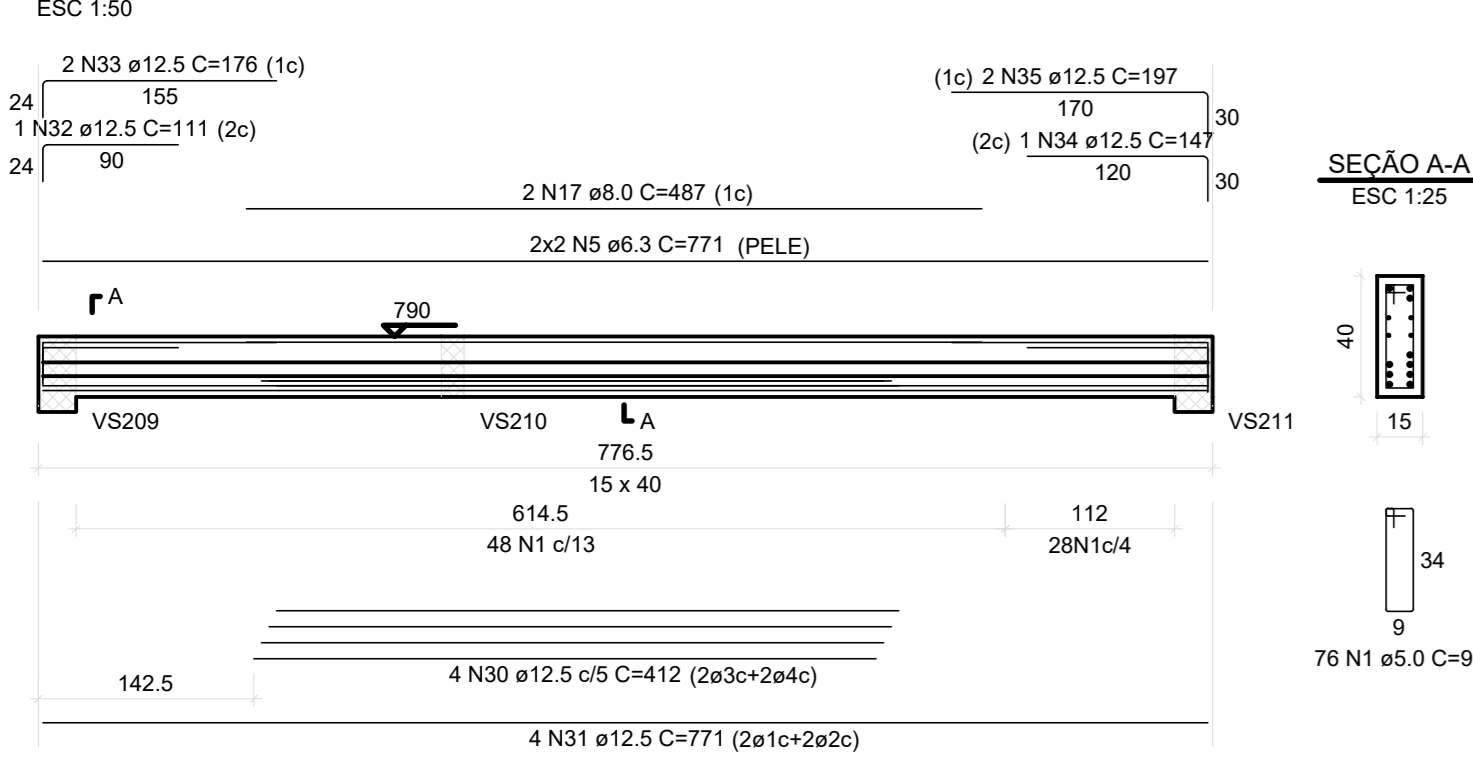
PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



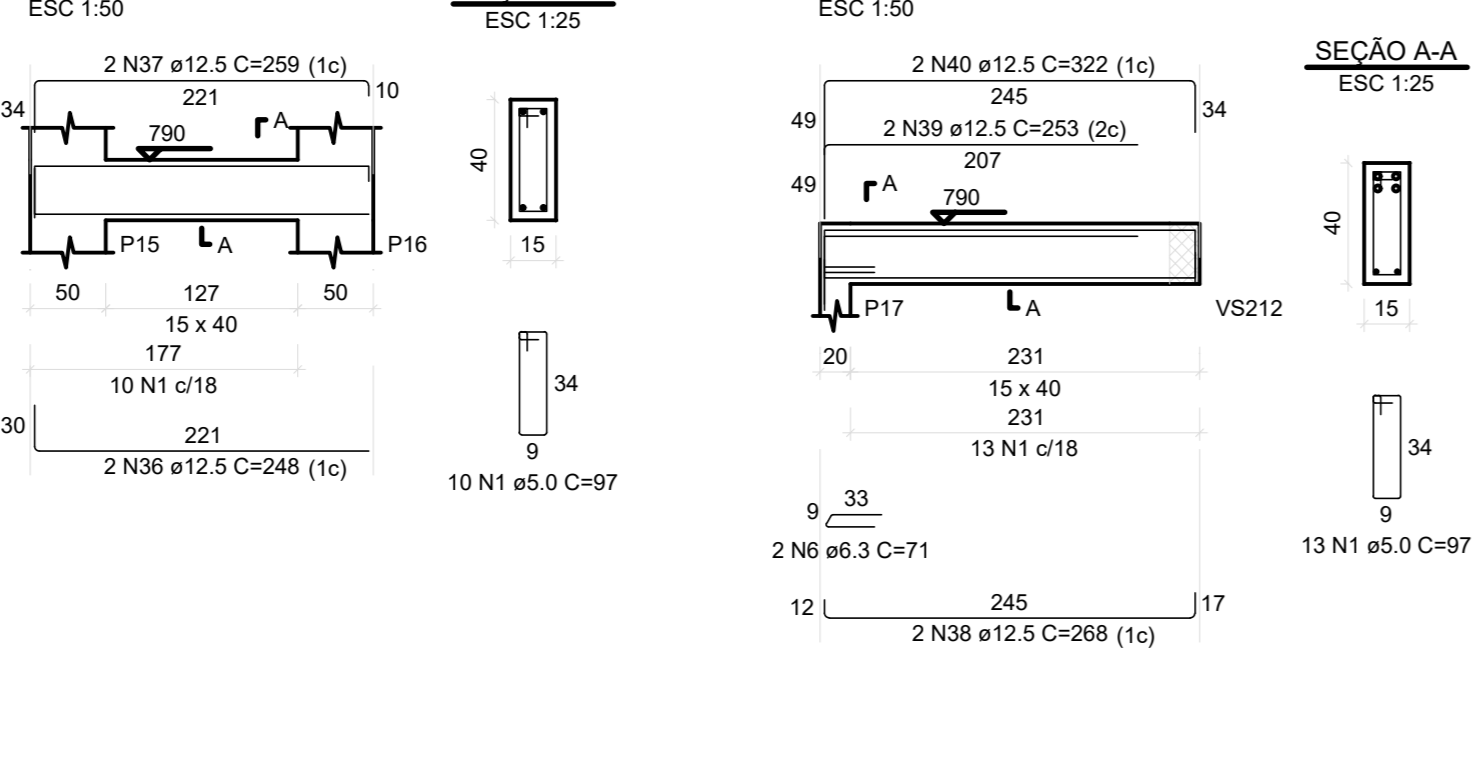




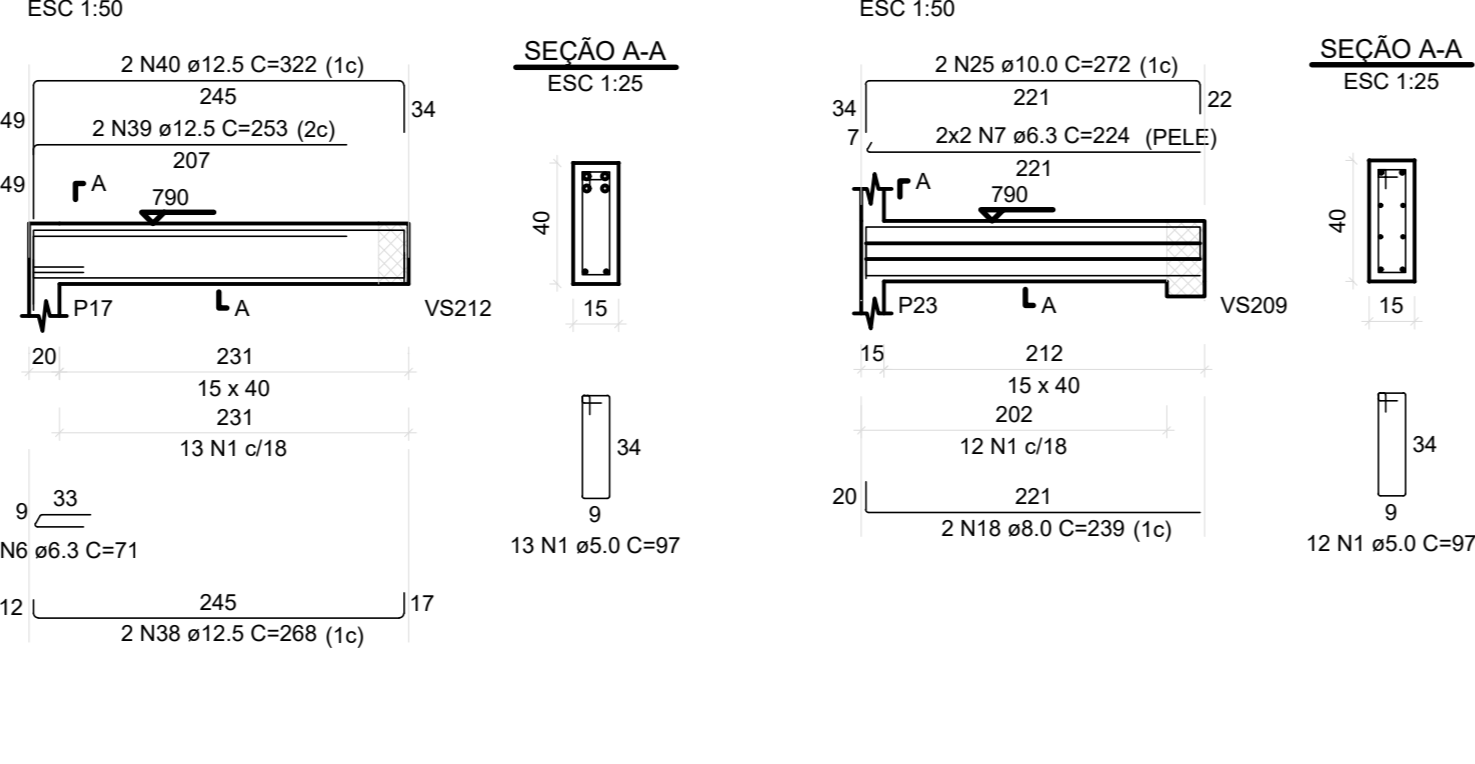
VS201



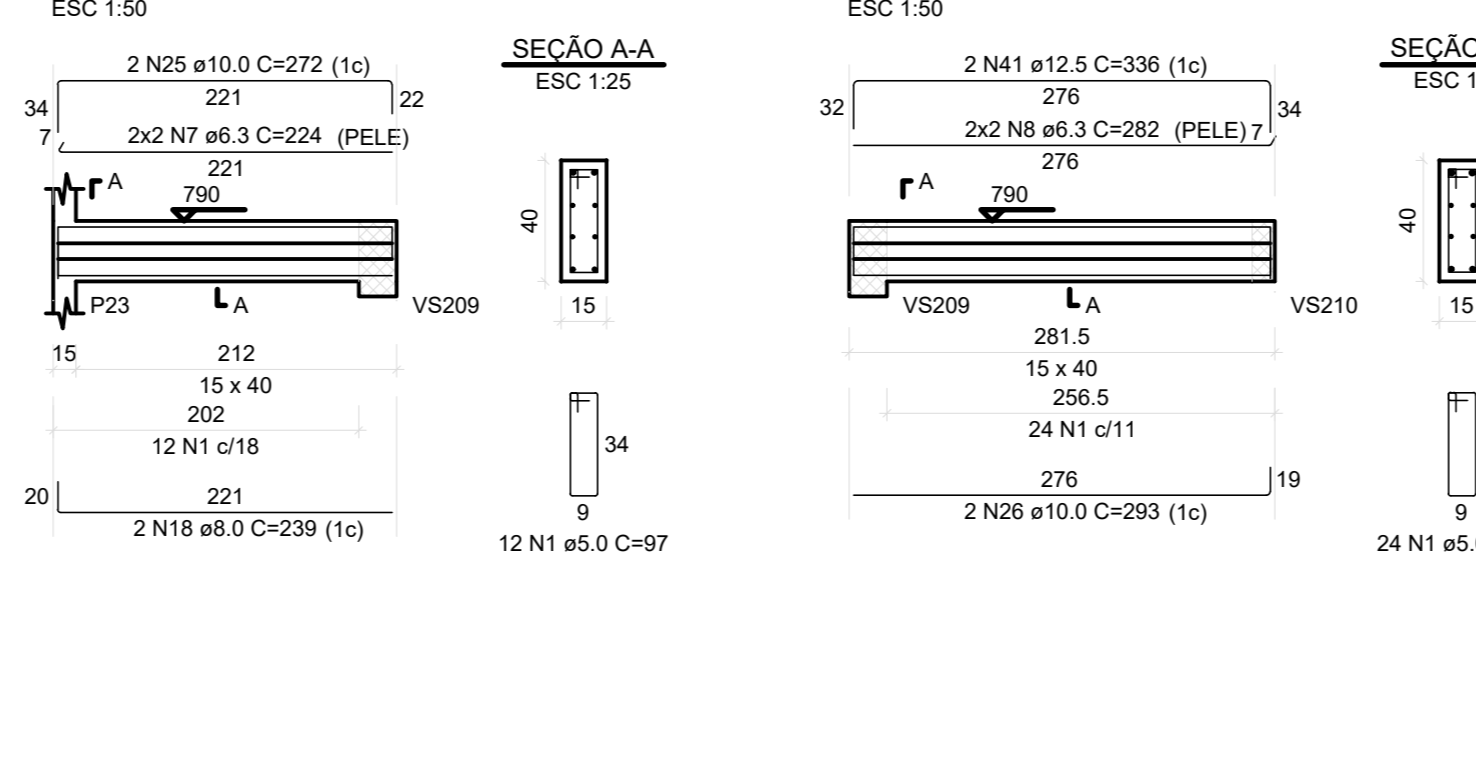
VS202



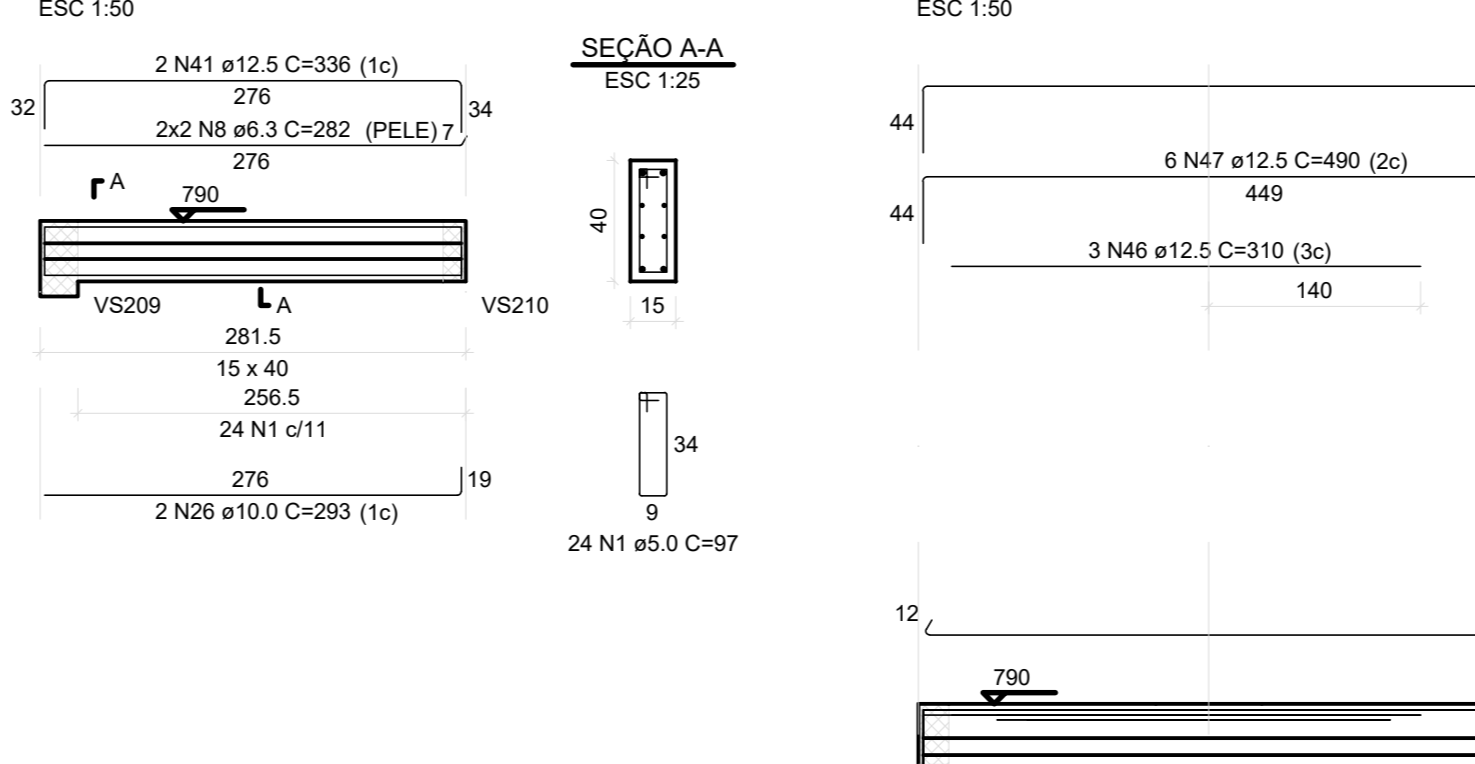
VS203



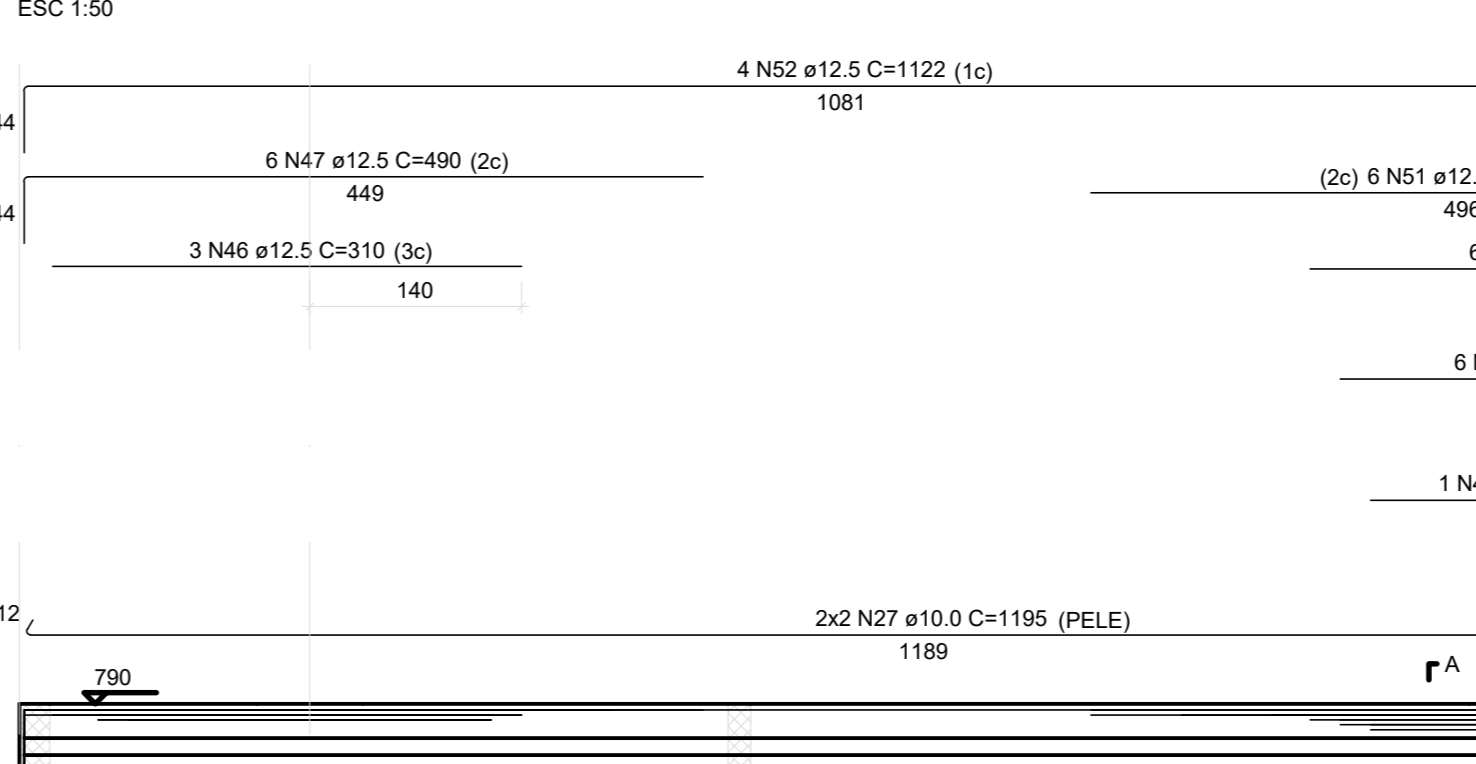
VS204



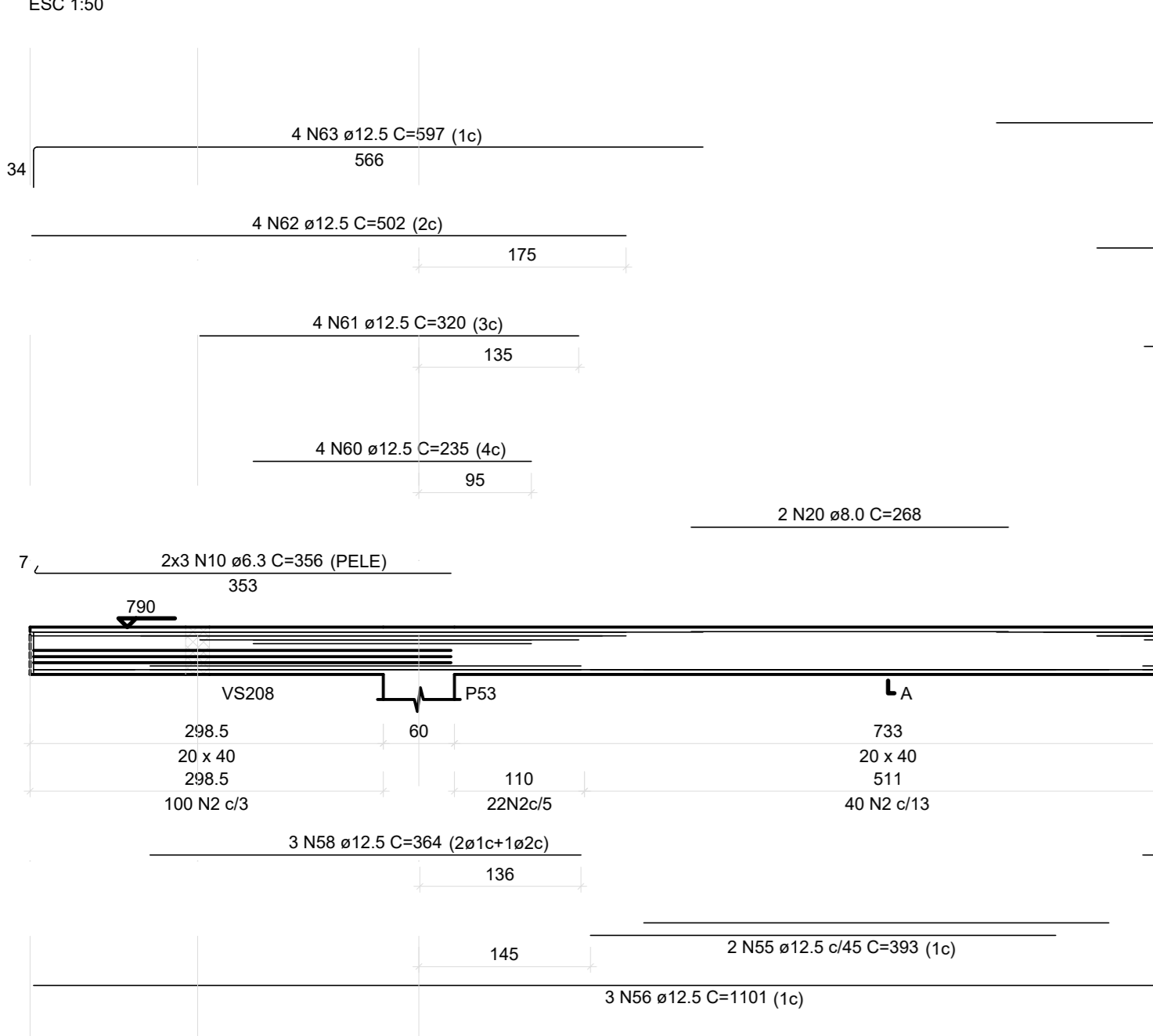
VS205



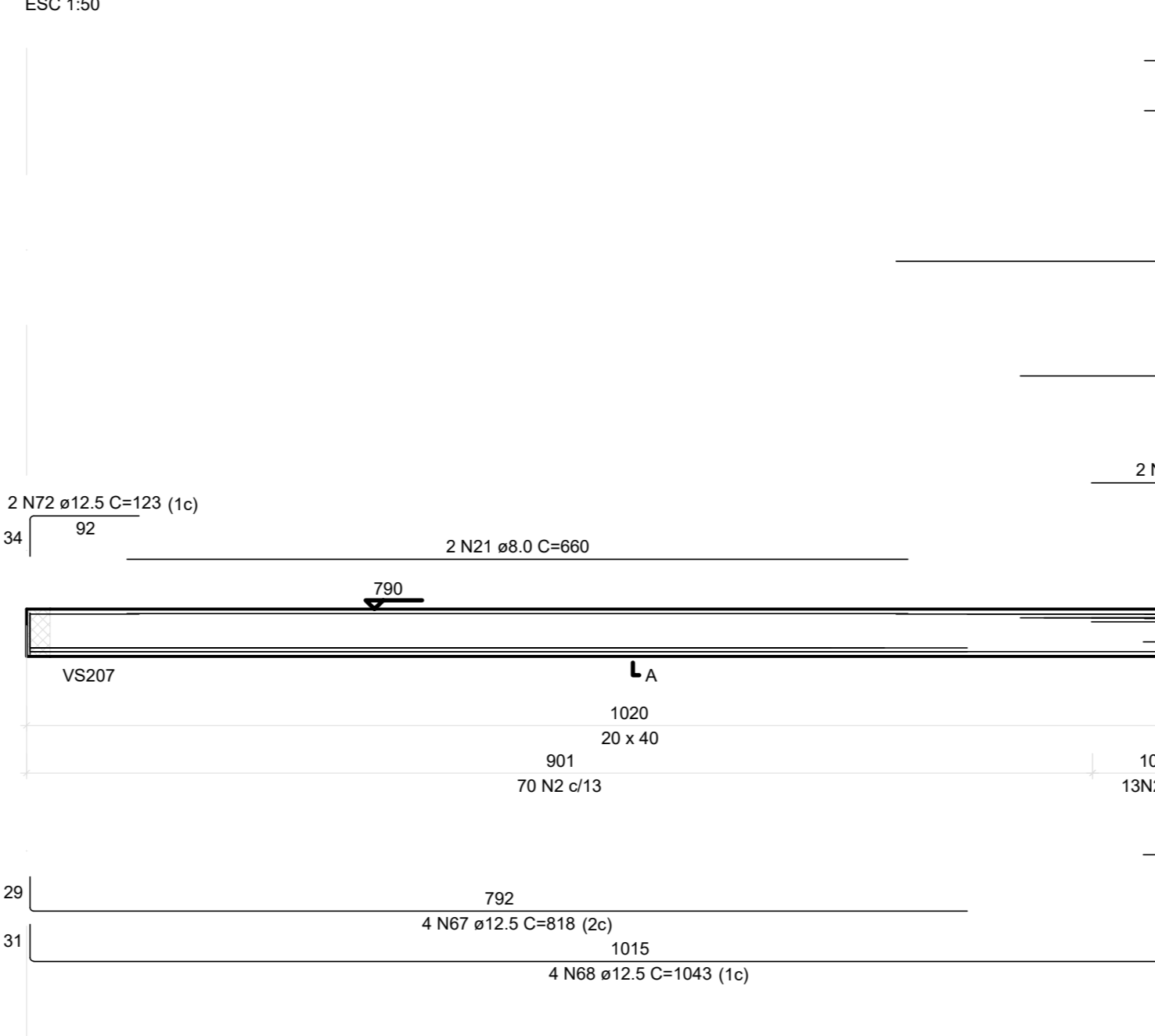
VS206



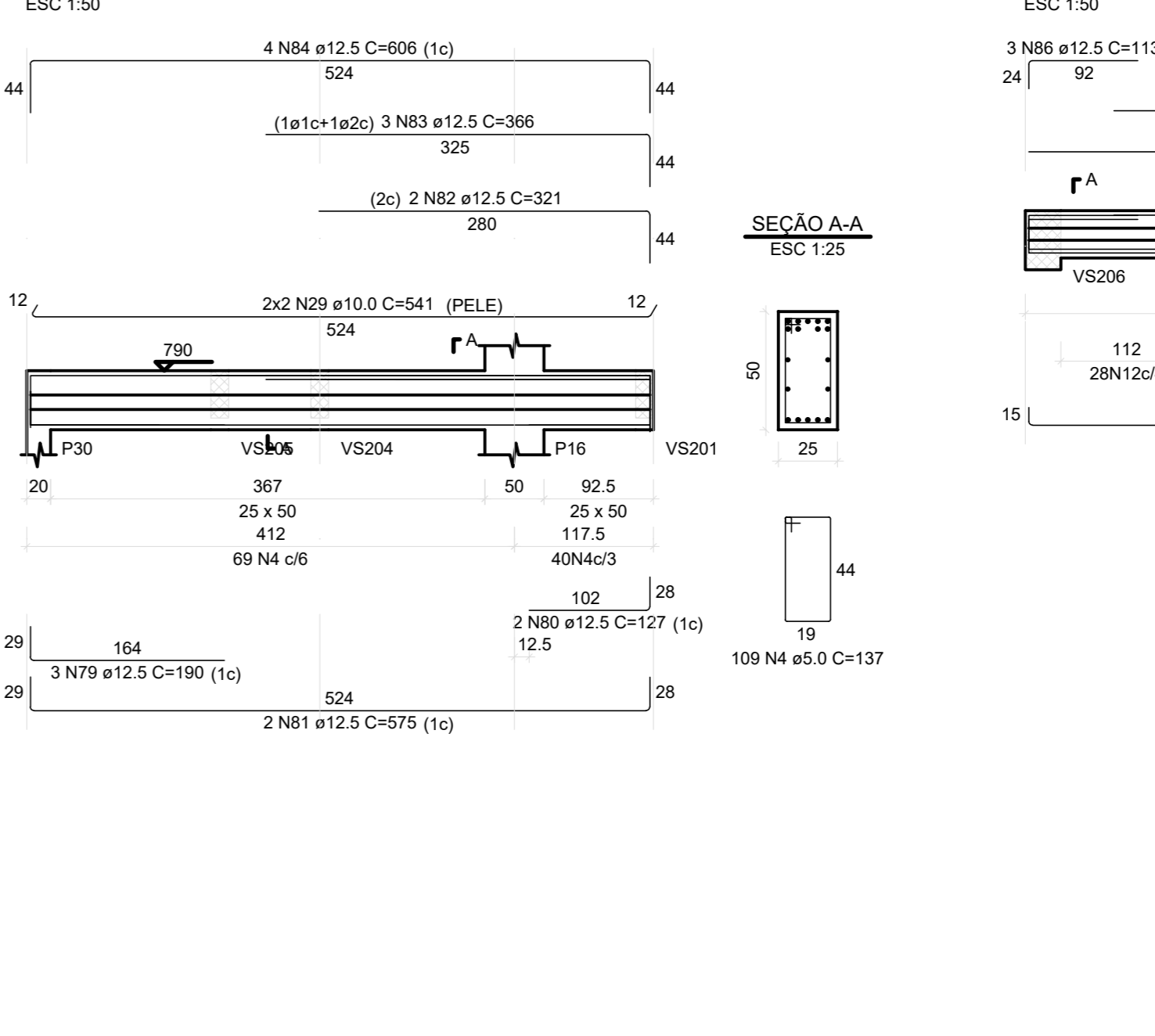
VS207



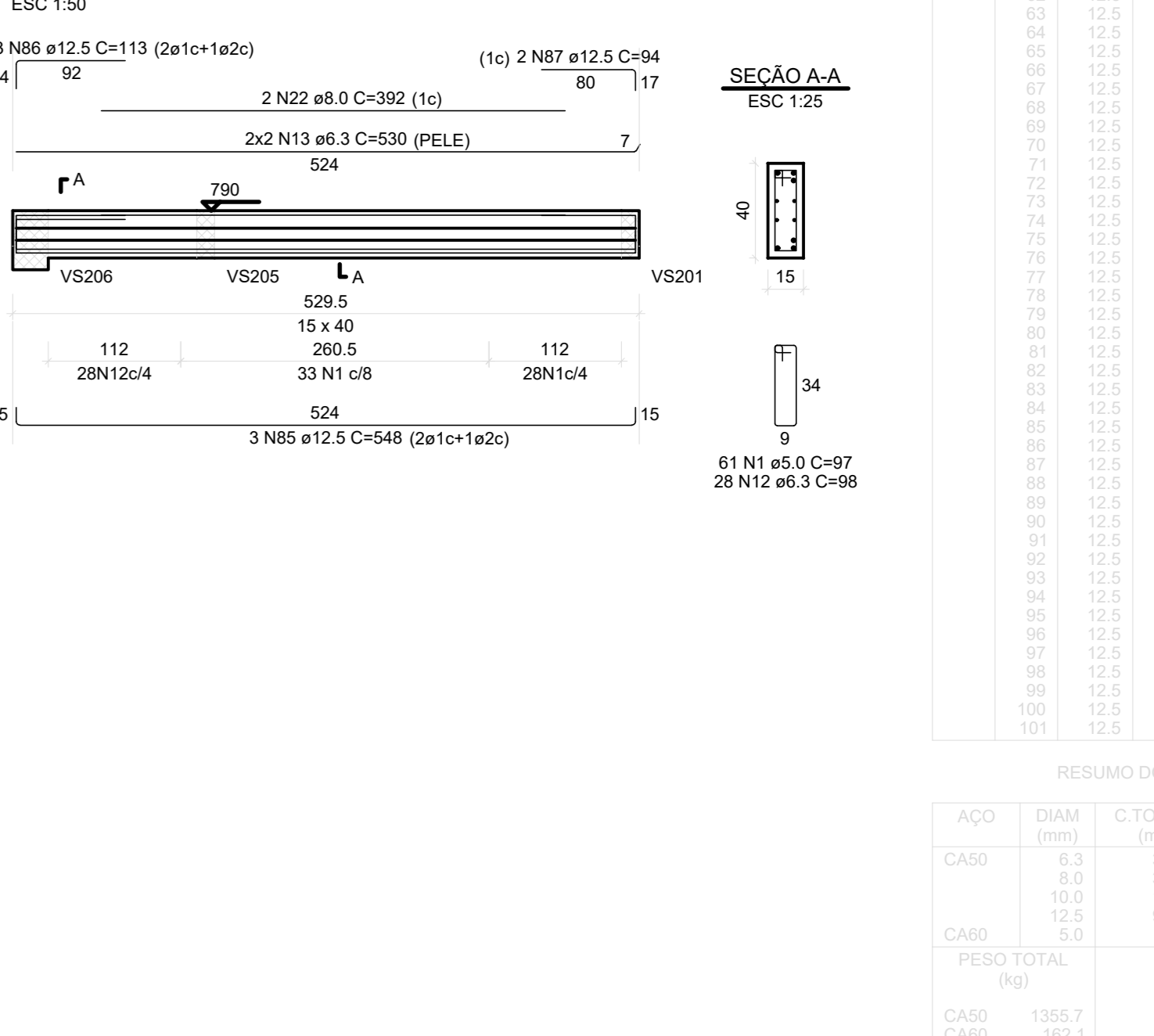
VS208



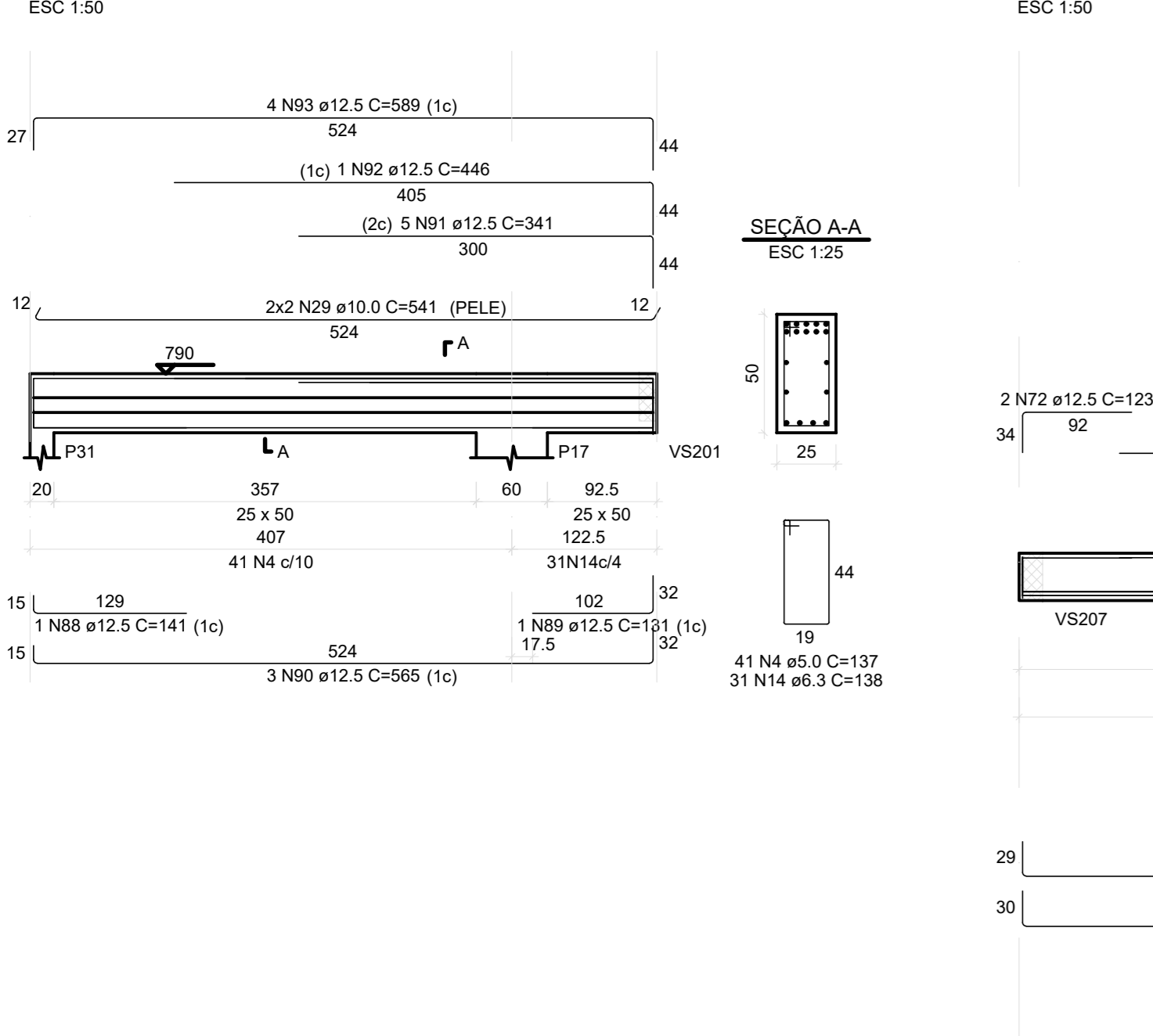
VS209



VS210



VS211



VS212

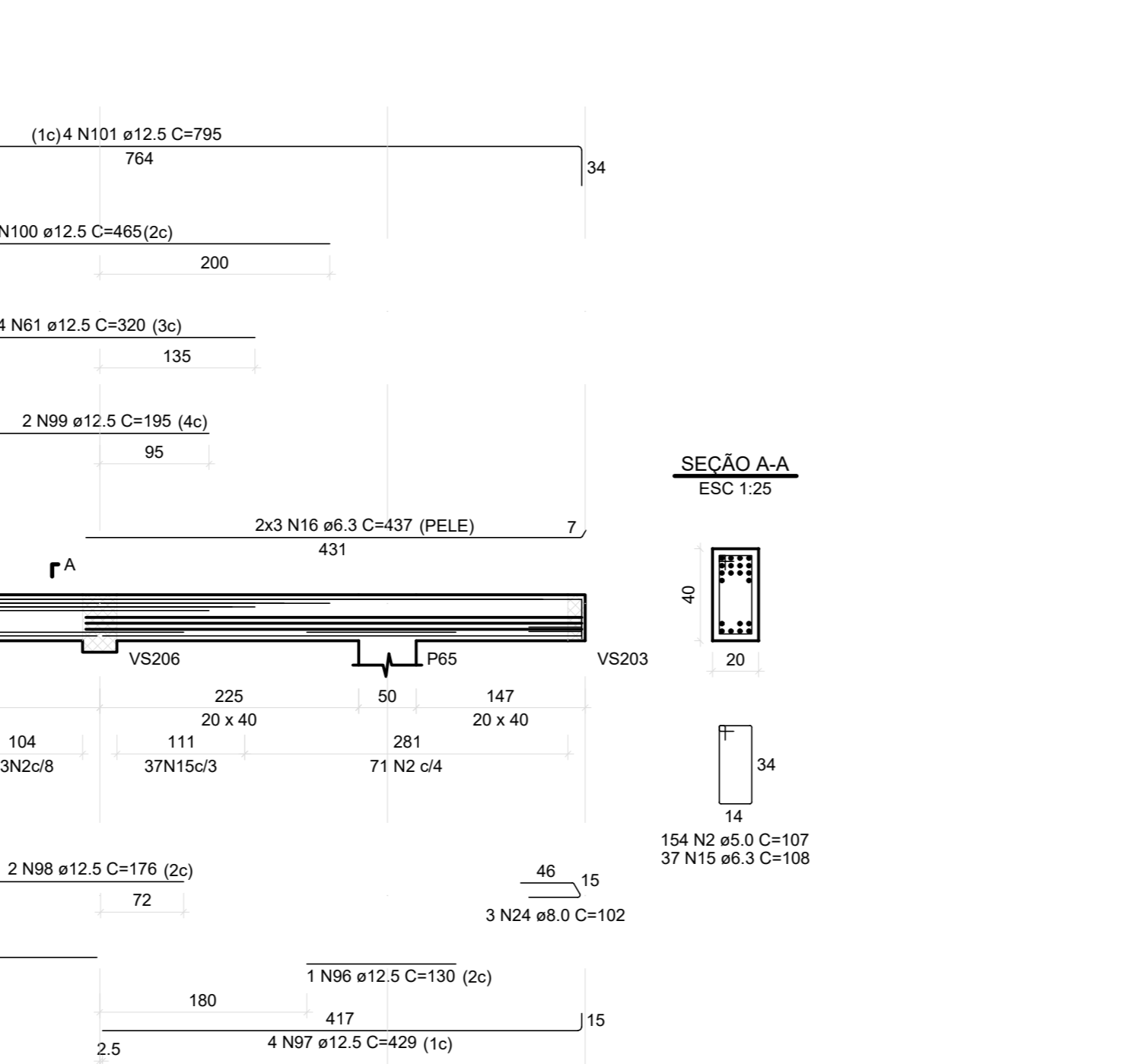
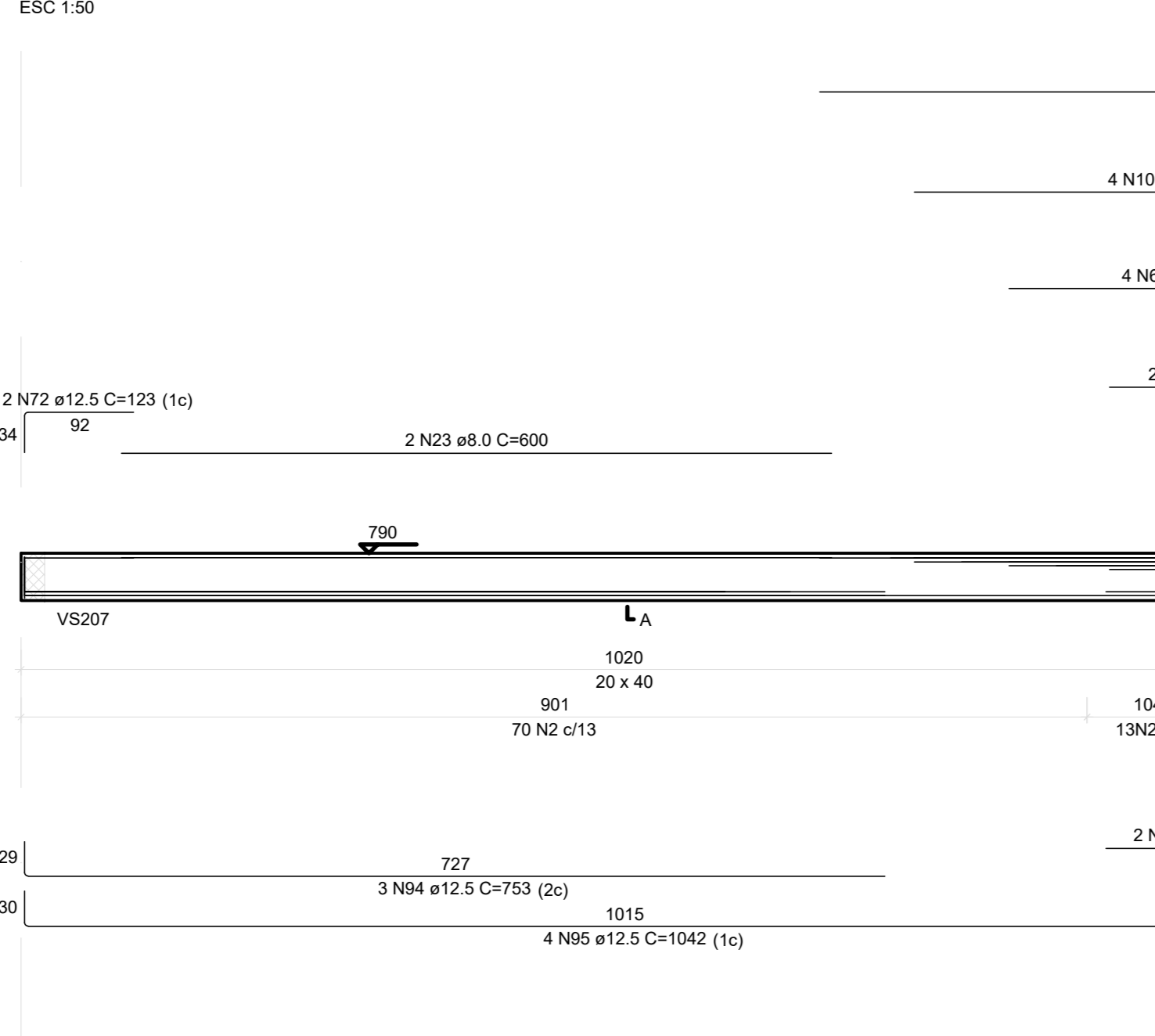


Table with columns: AGO, DM, DMW, DMWT, C, DMWT, C TOTAL, PISO, 4, 10%, 50%. It lists material quantities for various reinforcement bars.

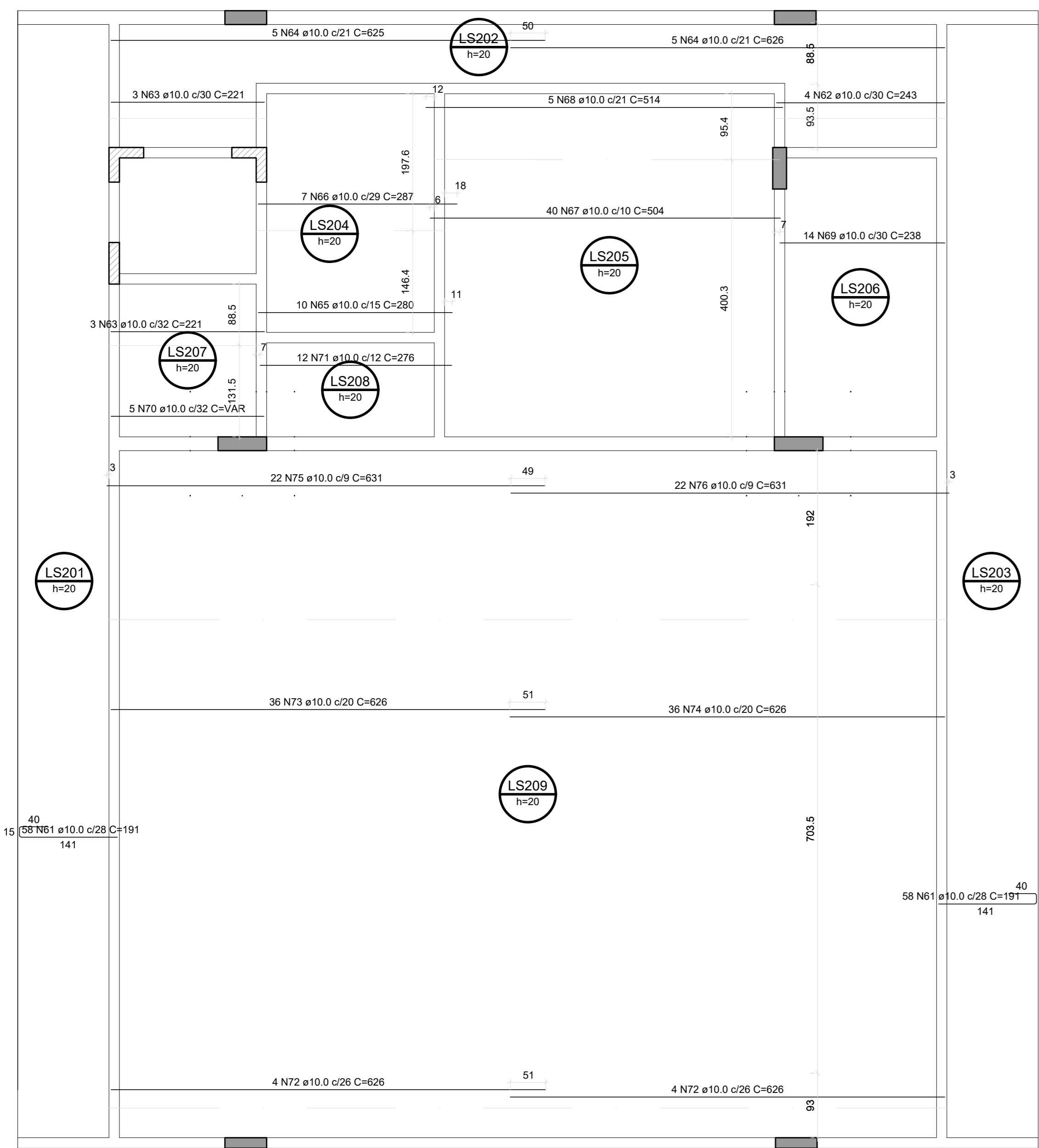
Table with columns: AGO, DM, DMW, DMWT, C TOTAL, PISO, 4, 10%, 50%. It provides a summary of material quantities.

Table with columns: Revisões da prancha, Emissão Inicial, LUIS F., 22/06/2022.

SETOR: REGIÃO ADMINISTRATIVA SIA
ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF
PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA
AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES
RESP. TÉCNICO:

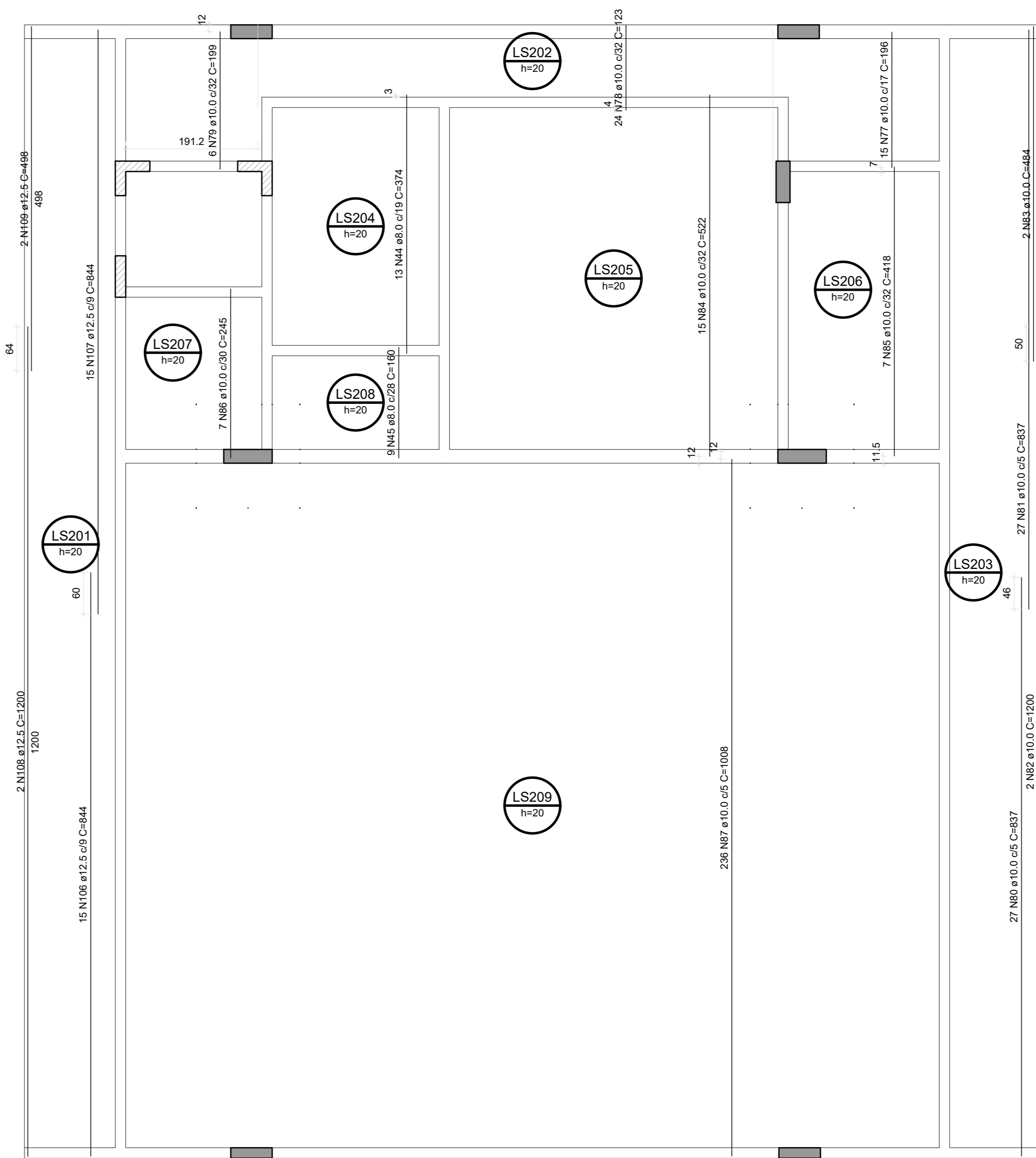
PROPRIETÁRIO
AUTOR DO PROJETO CREA: 21.401/D-DF
RESP. TÉCNICO

PROJECT INFORMATION: PROJETO ESTRUTURAL, USO - INSTITUCIONAL, CONCRETO: Fck = 40 MPa, FATOR A/C < 0,60, CONCRETO CLASSE C40, CLASSE AGRESSIV.: II, ARMAÇÃO DAS VIGAS DO PAVIMENTO COBERTURA DE EVENTOS. Includes CFMV logo and scale 1/50.



Armação Positiva das Lajes do Pavimento Cobertura de Eventos (Eixo X)

escala 1:50

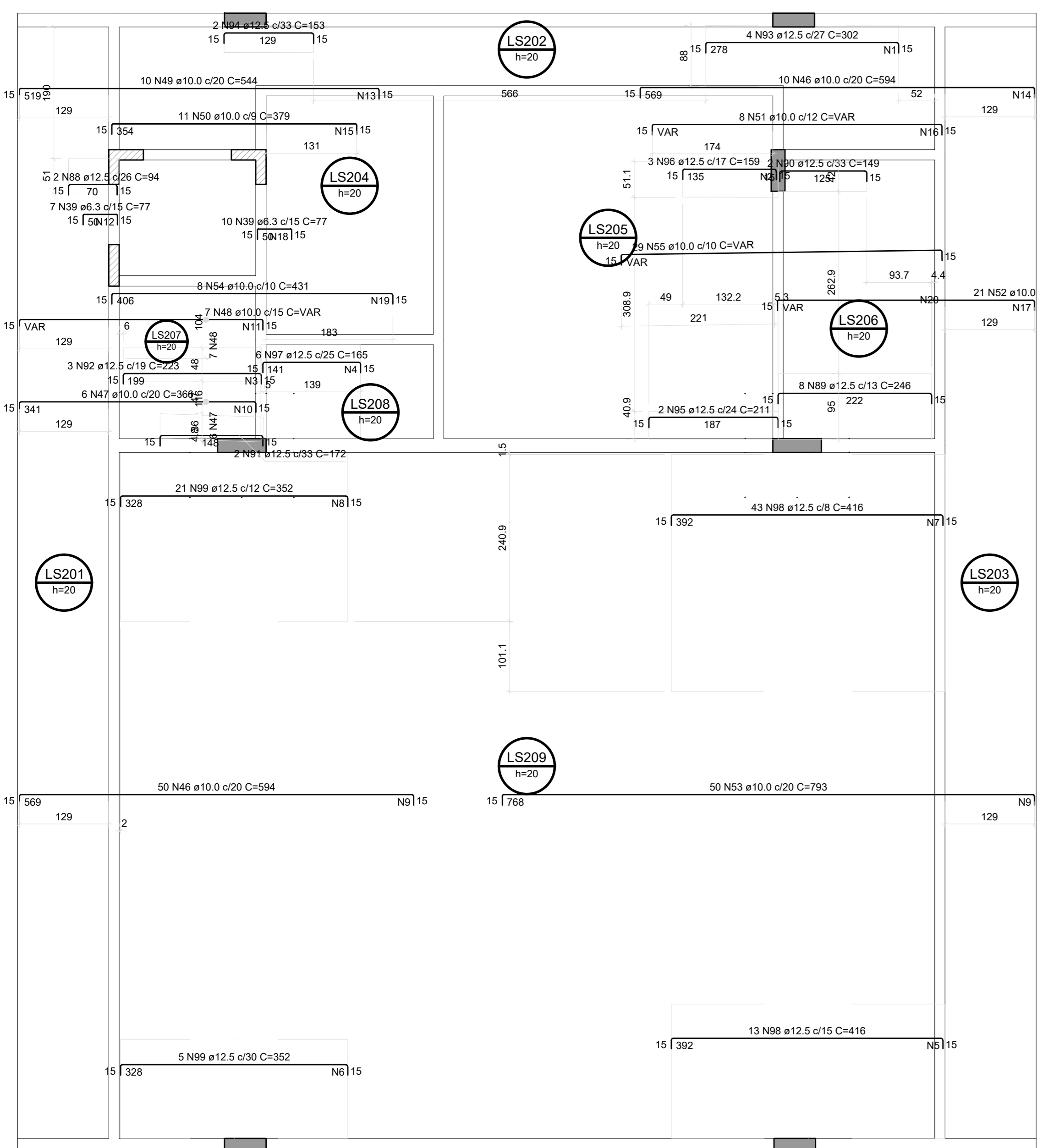


Armação Positiva das Lajes do Pavimento Cobertura de Eventos (Eixo Y)

escala 1:50

RELAÇÃO DO AÇO - Lajes de Cobertura de Eventos

ACO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CABO	N1	10	1	100	100
CABO	N2	10	1	100	100
CABO	N3	10	1	100	100
CABO	N4	10	1	100	100
CABO	N5	10	1	100	100
CABO	N6	10	1	100	100
CABO	N7	10	1	100	100
CABO	N8	10	1	100	100
CABO	N9	10	1	100	100
CABO	N10	10	1	100	100
CABO	N11	10	1	100	100
CABO	N12	10	1	100	100
CABO	N13	10	1	100	100
CABO	N14	10	1	100	100
CABO	N15	10	1	100	100
CABO	N16	10	1	100	100
CABO	N17	10	1	100	100
CABO	N18	10	1	100	100
CABO	N19	10	1	100	100
CABO	N20	10	1	100	100
CABO	N21	10	1	100	100
CABO	N22	10	1	100	100
CABO	N23	10	1	100	100
CABO	N24	10	1	100	100
CABO	N25	10	1	100	100
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CABO	N27	10	1	100	100
CABO	N28	10	1	100	100
CABO	N29	10	1	100	100
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CABO	N95	10	1	100	100
CABO	N96	10	1	100	100
CABO	N97	10	1	100	100
CABO	N98	10	1	100	100
CABO	N99	10	1	100	100
CABO	N100	10	1	100	100

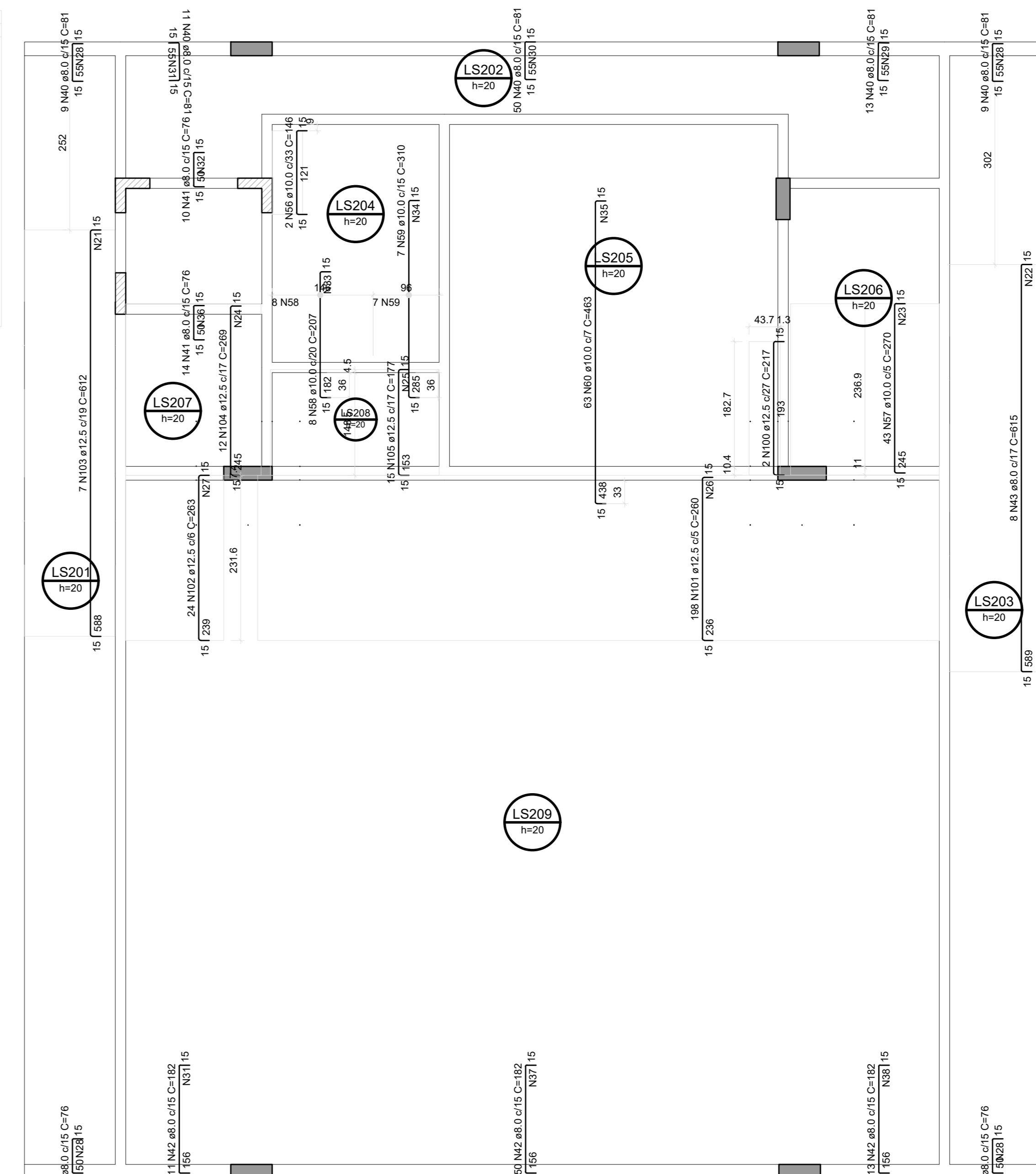
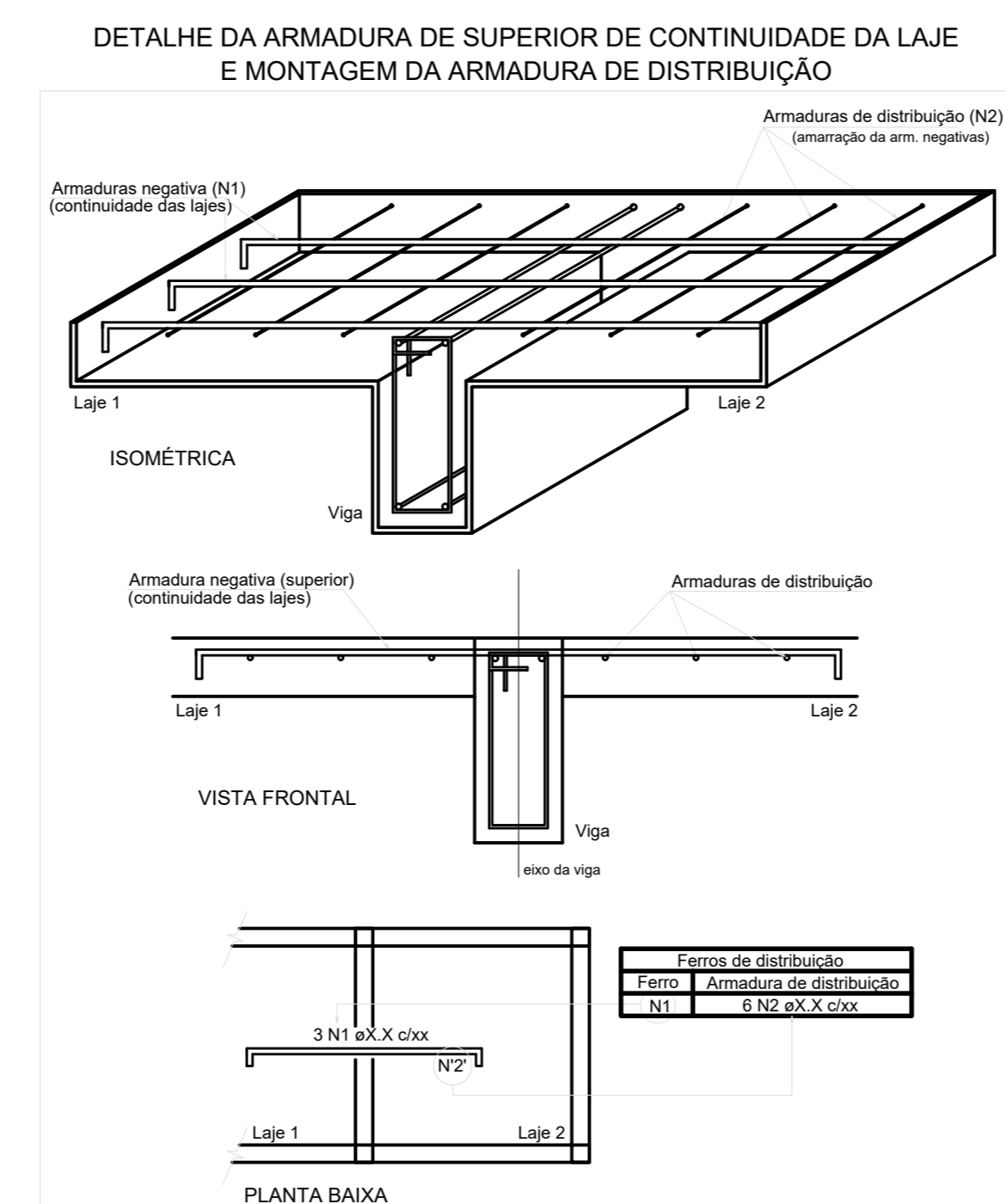
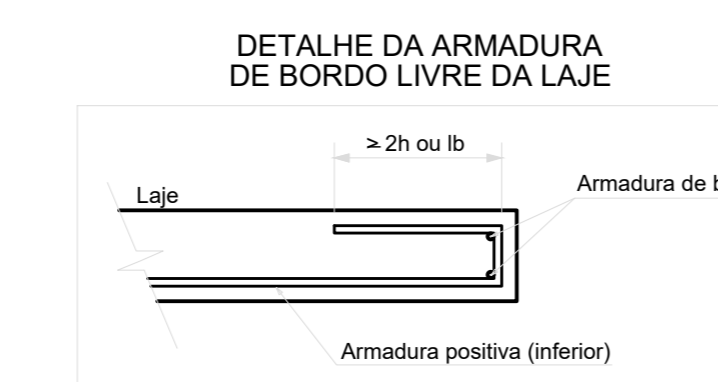


Armação Negativa das Lajes do Pavimento Cobertura de Eventos (Eixo X)

escala 1:50

Armaduras de distribuição

Armadura	Armadura de distribuição
N93	22 N1 ø5.0 c/13 C=65
N96	17 N2 ø5.0 c/8 C=41
N92	16 N3 ø5.0 c/13 C=65
N97	12 N4 ø5.0 c/12 C=60
N98	50 N5 ø5.0 c/7 C=35
N99	26 N6 ø5.0 c/13 C=65
N98	131 N7 ø5.0 c/2 C=362
N99	66 N8 ø5.0 c/5 C=243
N46	44 N9 ø5.0 c/13 C=1008
N47	27 N10 ø5.0 c/13 C=136
N48	27 N11 ø5.0 c/13 C=143
N39	4 N12 ø5.0 c/13 C=158
N49	40 N13 ø5.0 c/13 C=198
N46	44 N14 ø5.0 c/13 C=195
N50	33 N15 ø5.0 c/11 C=96
N51	33 N16 ø5.0 c/13 C=143
N52	29 N17 ø5.0 c/13 C=143
N53	59 N18 ø5.0 c/13 C=1008
N39	4 N18 ø5.0 c/13 C=150
N54	34 N19 ø5.0 c/12 C=85
N55	39 N20 ø5.0 c/12 C=143



Armação Negativa das Lajes do Pavimento Cobertura de Eventos (Eixo Y)

escala 1:50

Revisões da prancha

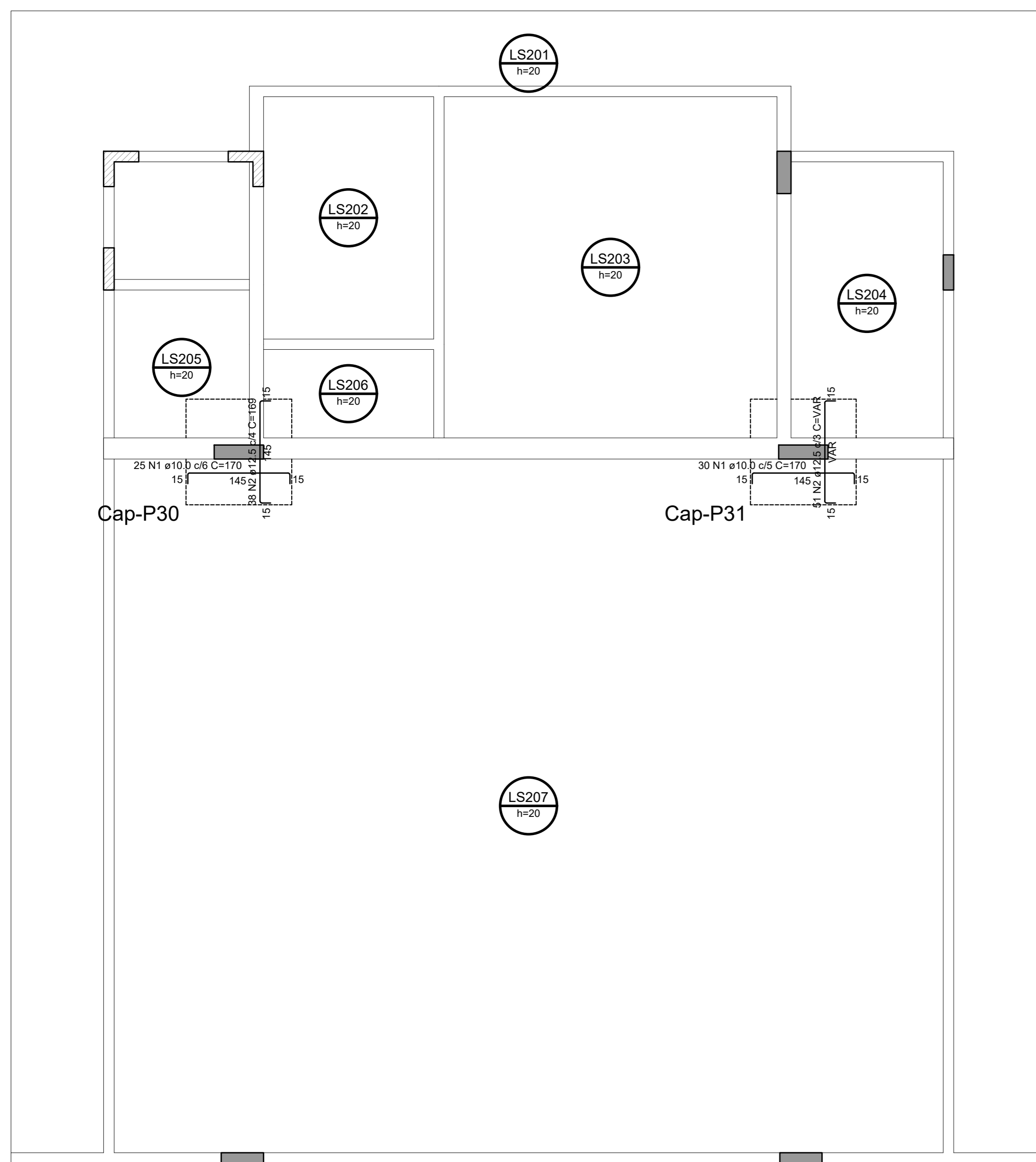
Nº	Descrição	Data
1	Emissão Inicial	LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

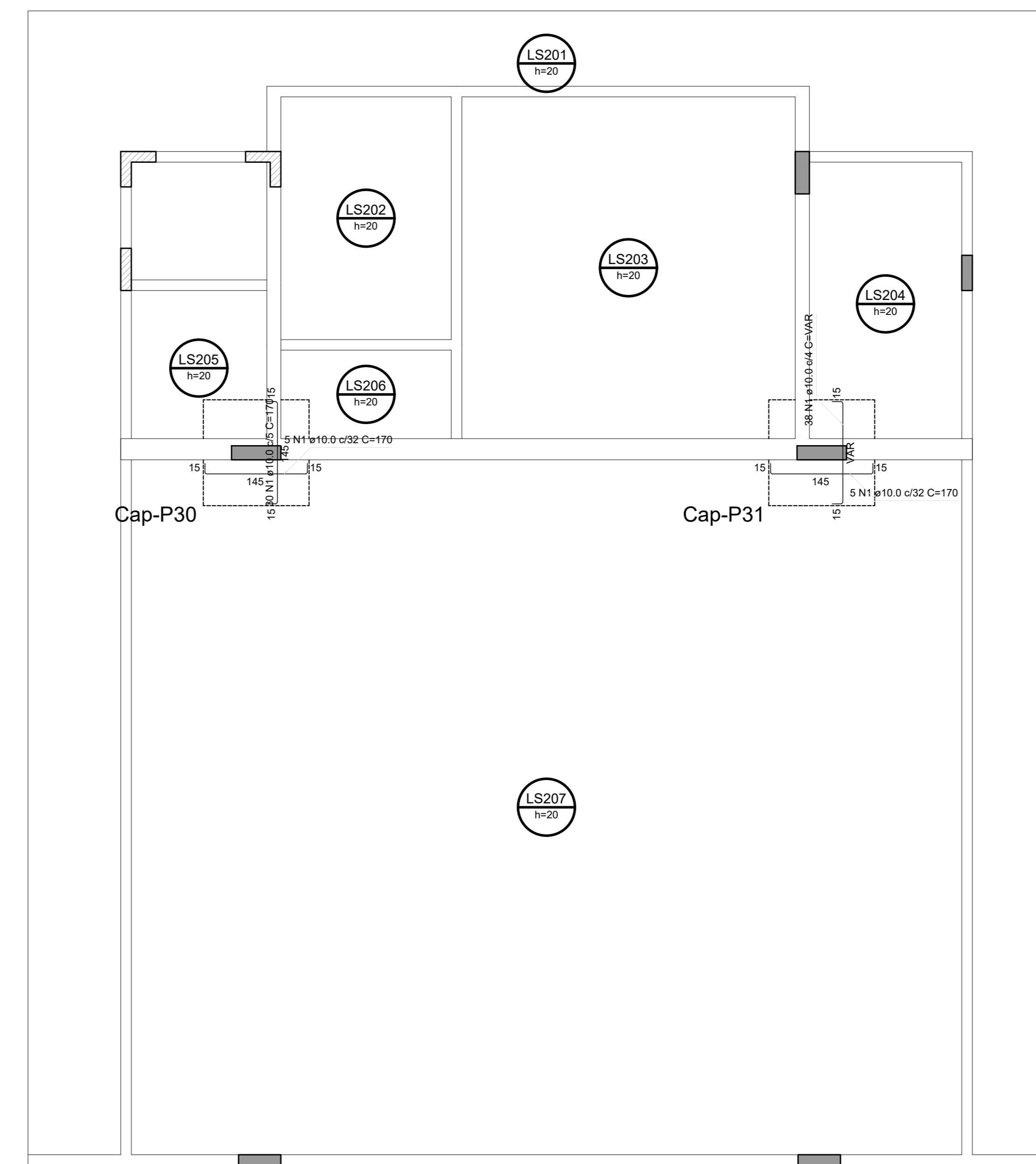
PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0,60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contêido: ARMAÇÃO DAS LAJES DO PAVIMENTO COBERTURA DE EVENTOS ( PARTE 01)

Prancha: ESTRUTURA 5  
 58/84  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50



Armação Negativa das Regiões Maciças do Pavimento Cobertura de Eventos  
escala 1:50



Armação Positiva das Regiões Maciças do Pavimento Cobertura de Eventos  
escala 1:50

RELAÇÃO DO AÇO - Lajes de Cobertura de Eventos

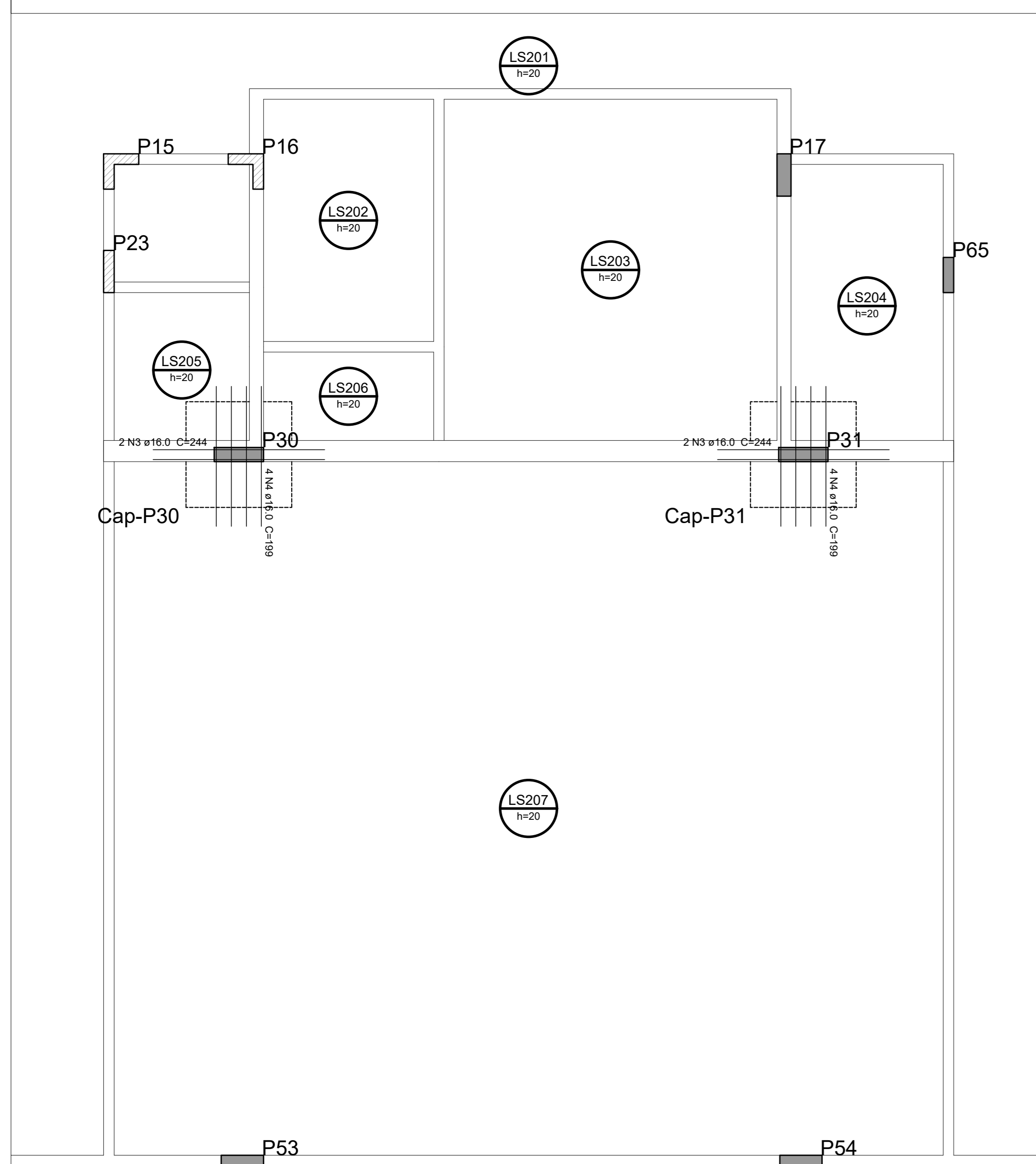
Maciços negativos - Maciços positivos

CLASSE	Nº	DIAM (mm)	QUANT. (un)	C. COMB. (cm)	C. TOTAL (cm)	PESO (kg)
CLASSE 1	1	10,0	100	100	200,0	200,0
CLASSE 2	2	12,5	80	80	160,0	160,0
CLASSE 3	3	16,0	4	244	976	976
CLASSE 4	4	18,0	3	360	1260	1260

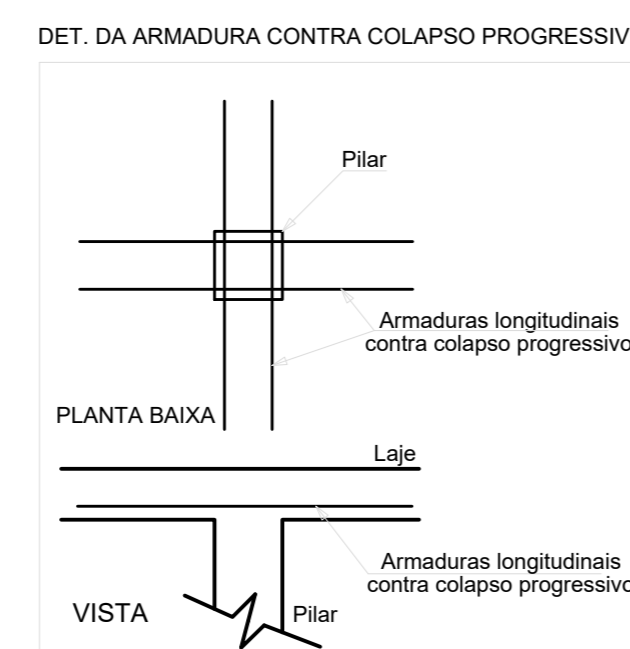
RESUMO DO AÇO

CLASSE	DIAM (mm)	C. TOTAL (cm)	PESO (+10%) (kg)
CLASSE 1	10,0	200,0	200,0
CLASSE 2	12,5	160,0	160,0
CLASSE 3	16,0	976,0	976,0
CLASSE 4	18,0	1260,0	1260,0
CLASSE			3596,0

Volume de concreto (C-40) = 9.00 m³  
Área de forma = 0.00 m²



Detalhamento de Punção e Cisalhamento das Lajes do Pavimento Cobertura de Eventos (Nível 790)  
escala 1:50



Revisões da prancha

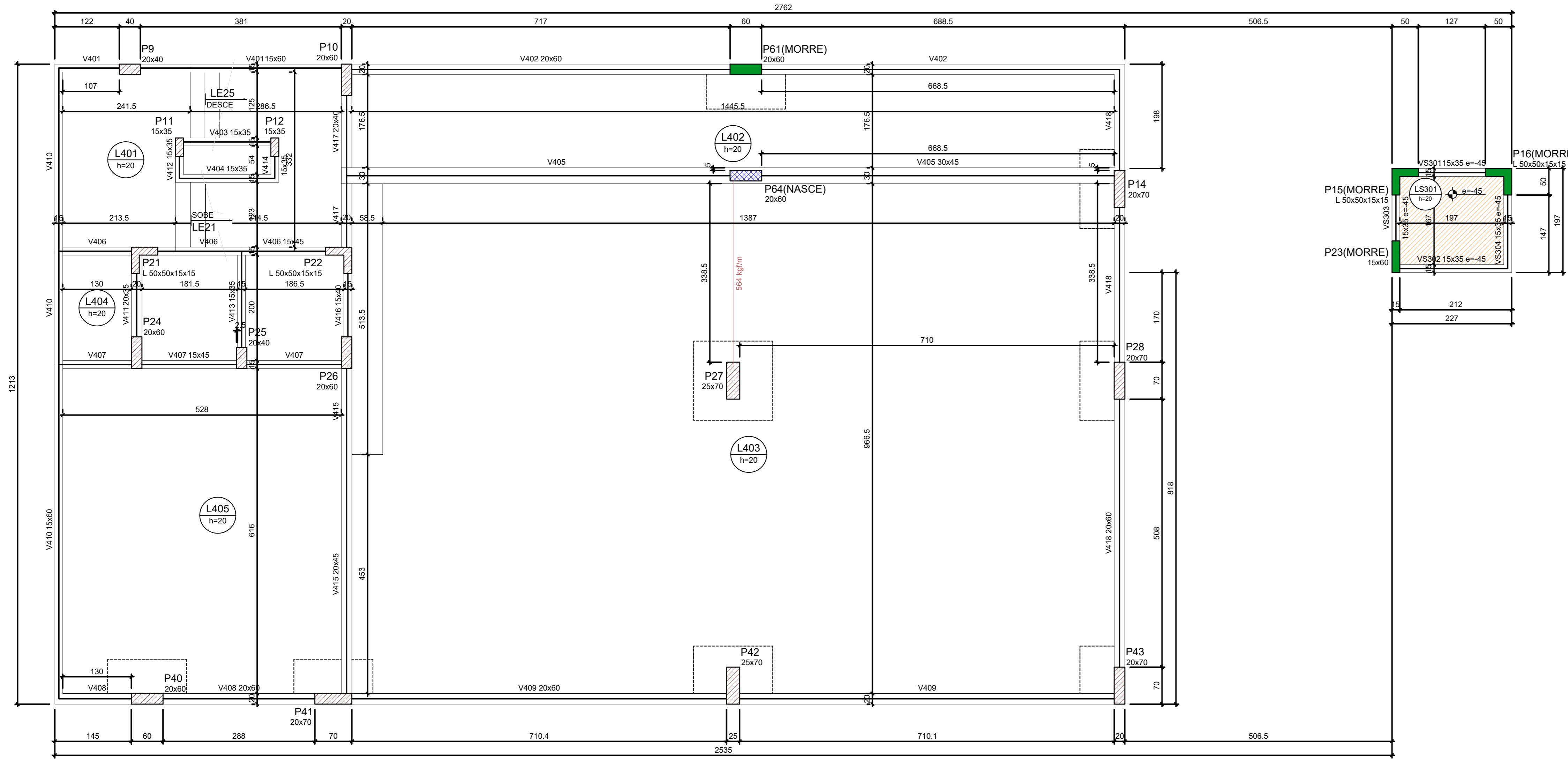
Nº	Descrição	Data
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-	-	-
-	-	-
-	-	-

Emissão Inicial

LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V401	15x35	0	990
V402	20x60	0	990
V403	15x35	0	990
V404	15x35	0	990
V405	30x45	0	990
V406	15x45	0	990
V407	15x45	0	990
V408	20x60	0	990
V409	20x60	0	990
V410	15x60	0	990
V411	20x35	0	990
V412	15x35	0	990
V413	15x35	0	990
V414	15x35	0	990
V415	20x45	0	990
V416	15x45	0	990
V417	20x40	0	990
V418	20x60	0	990
V5301	15x35	-45	945
V5302	15x35	-45	945
V5303	15x35	-45	945
V5304	15x35	-45	945

Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kg/m <sup>2</sup> )	Adicional	Sobrecarga (kg/m <sup>2</sup> )	Localizada
L401	Margem	20	0	990	500	154	300	-
L402	Margem	20	0	990	500	182	300	-
L403	Margem	20	0	990	500	162	300	sim
L404	Margem	20	0	990	500	154	300	-
L405	Margem	20	0	990	500	154	300	-
L5301	Margem	20	-45	945	500	182	300	-

Características dos materiais	Esq.
Isq. (kg/m <sup>2</sup> )	Esq. (kg/m <sup>2</sup> )
400	310/325

Dimensão máxima do agregado = 19 mm

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P09	20x40	0	990
P10	20x60	0	990
P11	15x35	0	990
P12	15x35	0	990
P14	20x70	0	990
P15	L 50x50x15x15	-45	945
P16	L 50x50x15x15	-45	945
P21	L 50x50x15x15	0	990
P22	L 50x50x15x15	0	990
P23	15x60	-45	945
P24	20x60	0	990
P25	20x40	0	990
P26	20x60	0	990
P27	25x70	0	990
P28	20x70	0	990
P40	20x60	0	990
P41	20x70	0	990
P42	25x70	0	990
P43	20x70	0	990
P44	20x60	0	990
P44	20x60	0	990

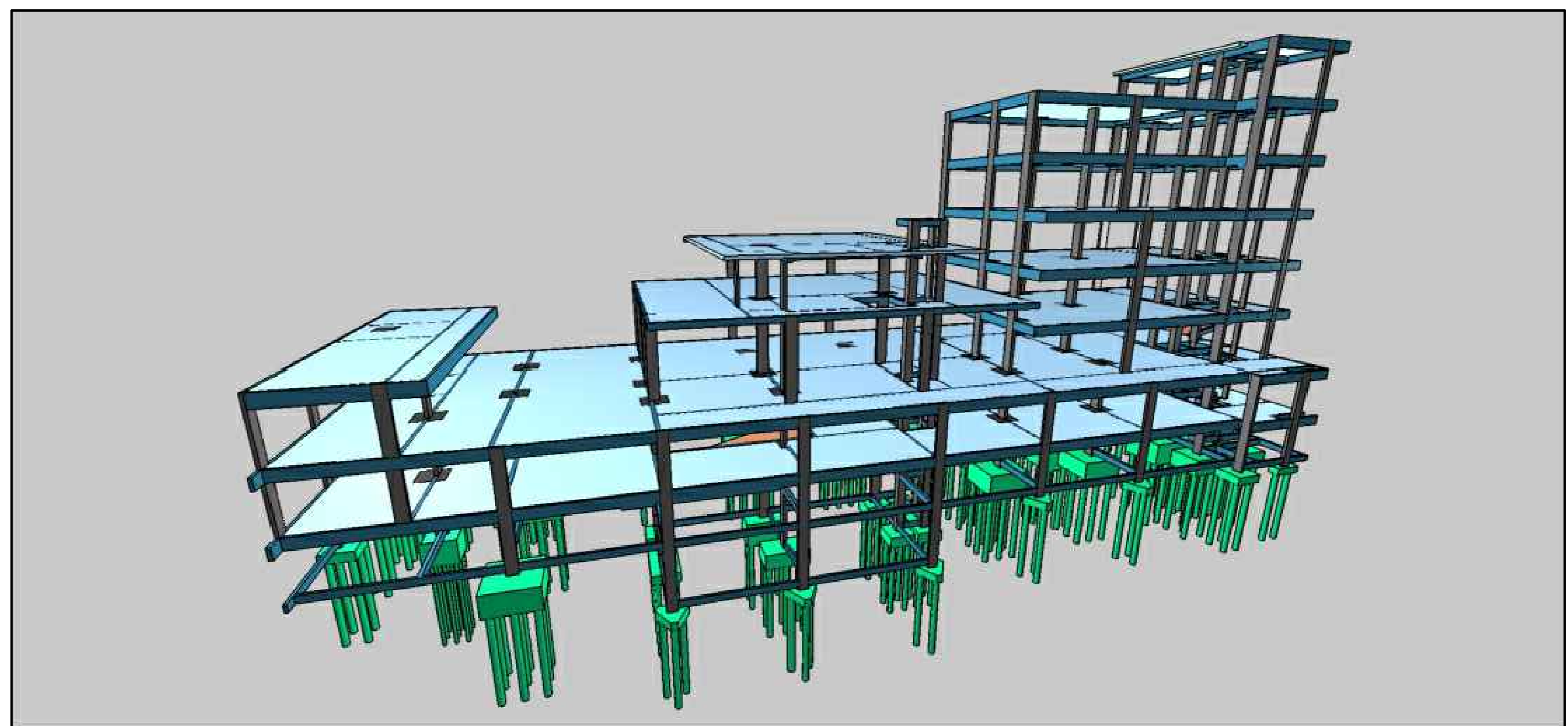
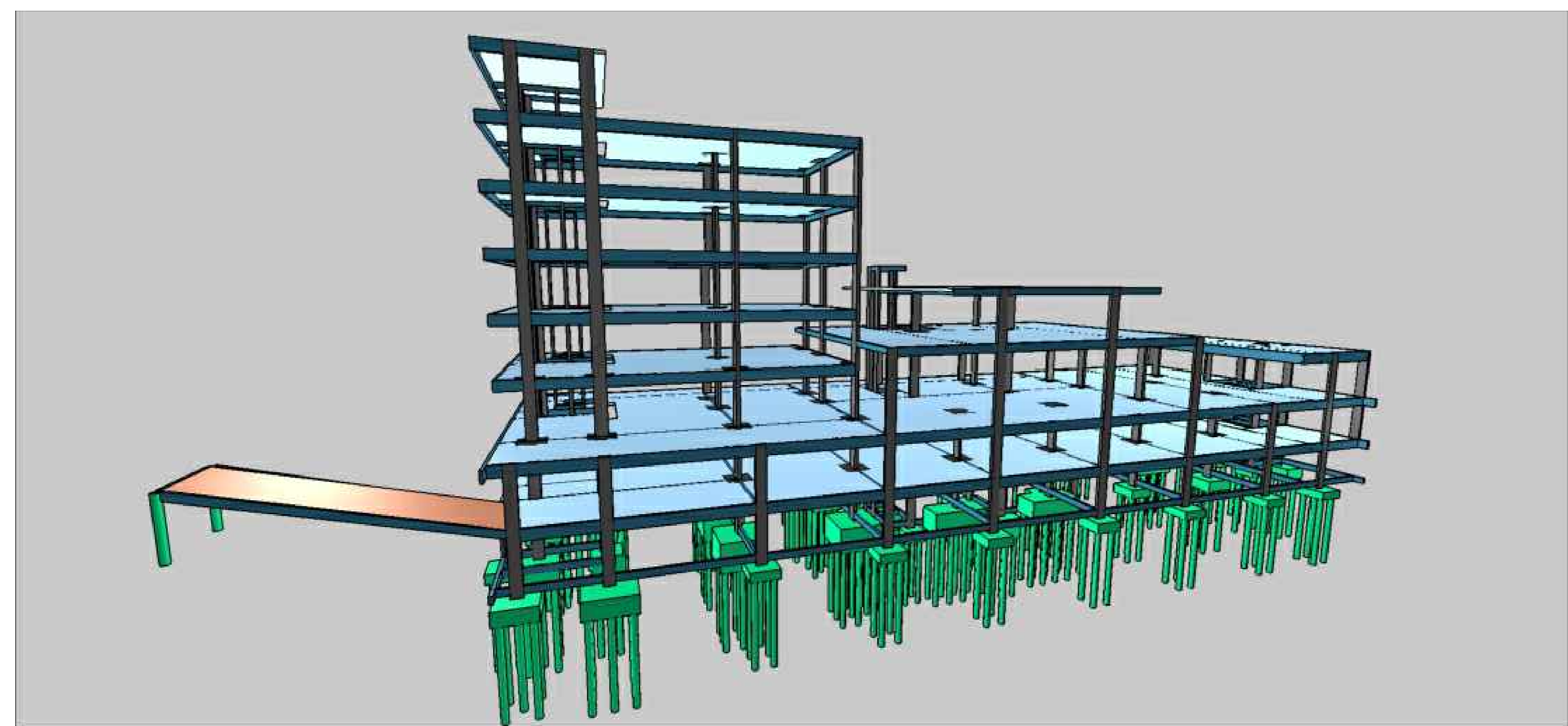
**Legenda dos pilares**

- Pilar que morre
- Pilar que passa
- Pilar que nasce

**Legenda das vigas e paredes**

- Viga

Forma do Pavimento 4º Pav. (Nível 990) escala 1:50



Revisões da prancha		
-		
-		
-		
-		

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

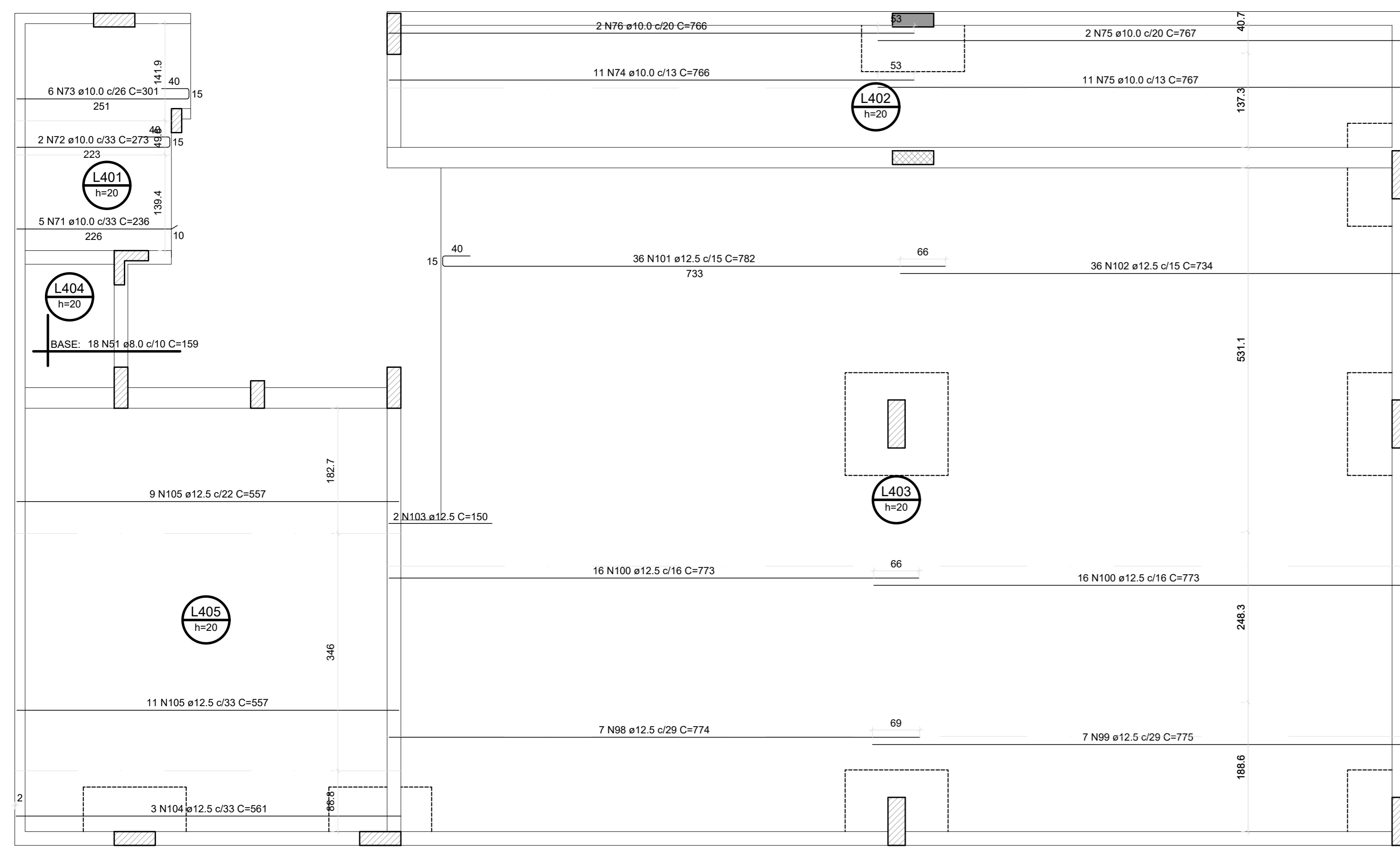
PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0,60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Conteúdo: FORMA DO PAVIMENTO 4º PAVIMENTO

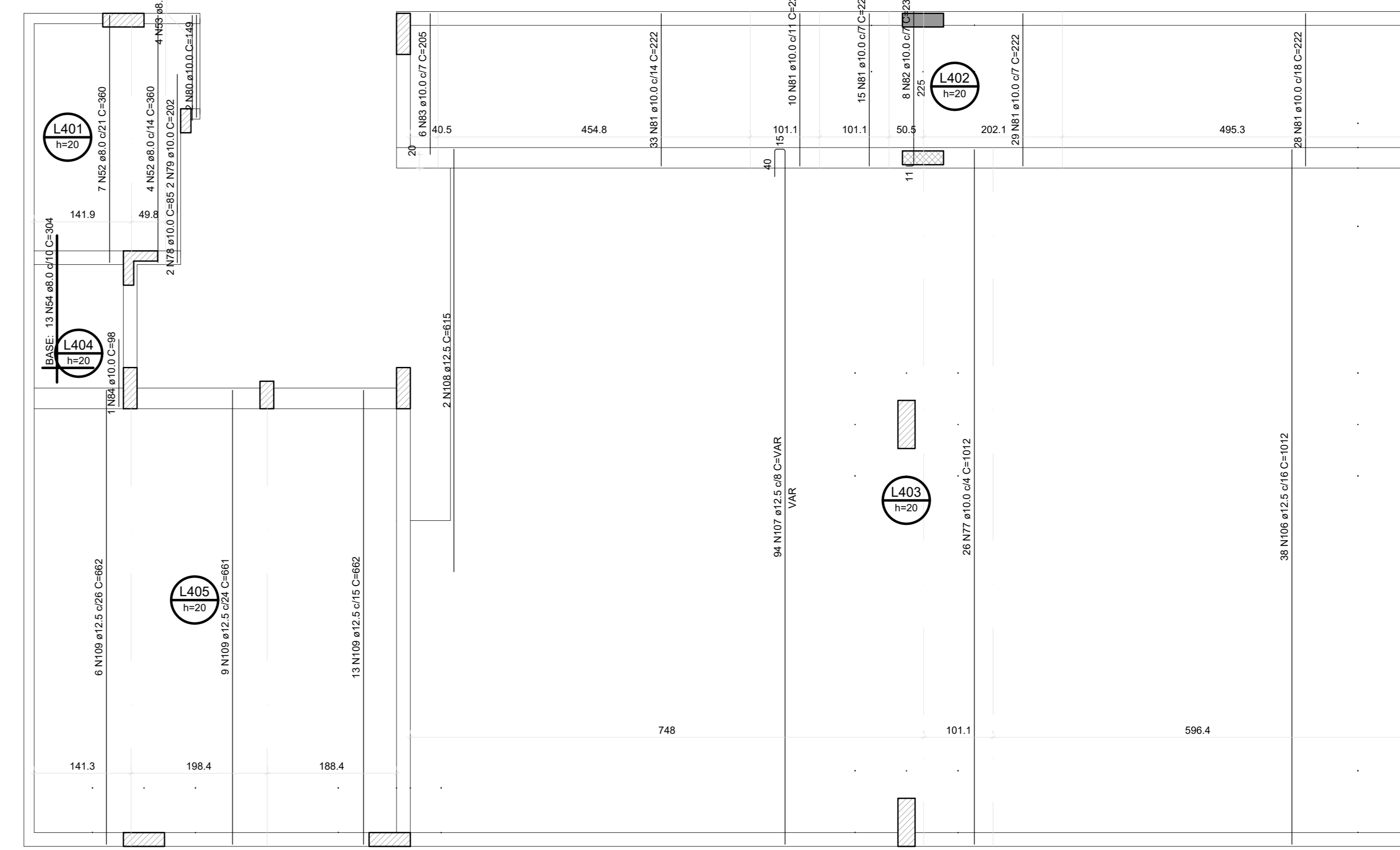
Prancha: ESTRUTURA 5  
**60/84**

Data: 22/06/2022 | Á. Lote: 2.000,00m<sup>2</sup> | Escala: 1:50

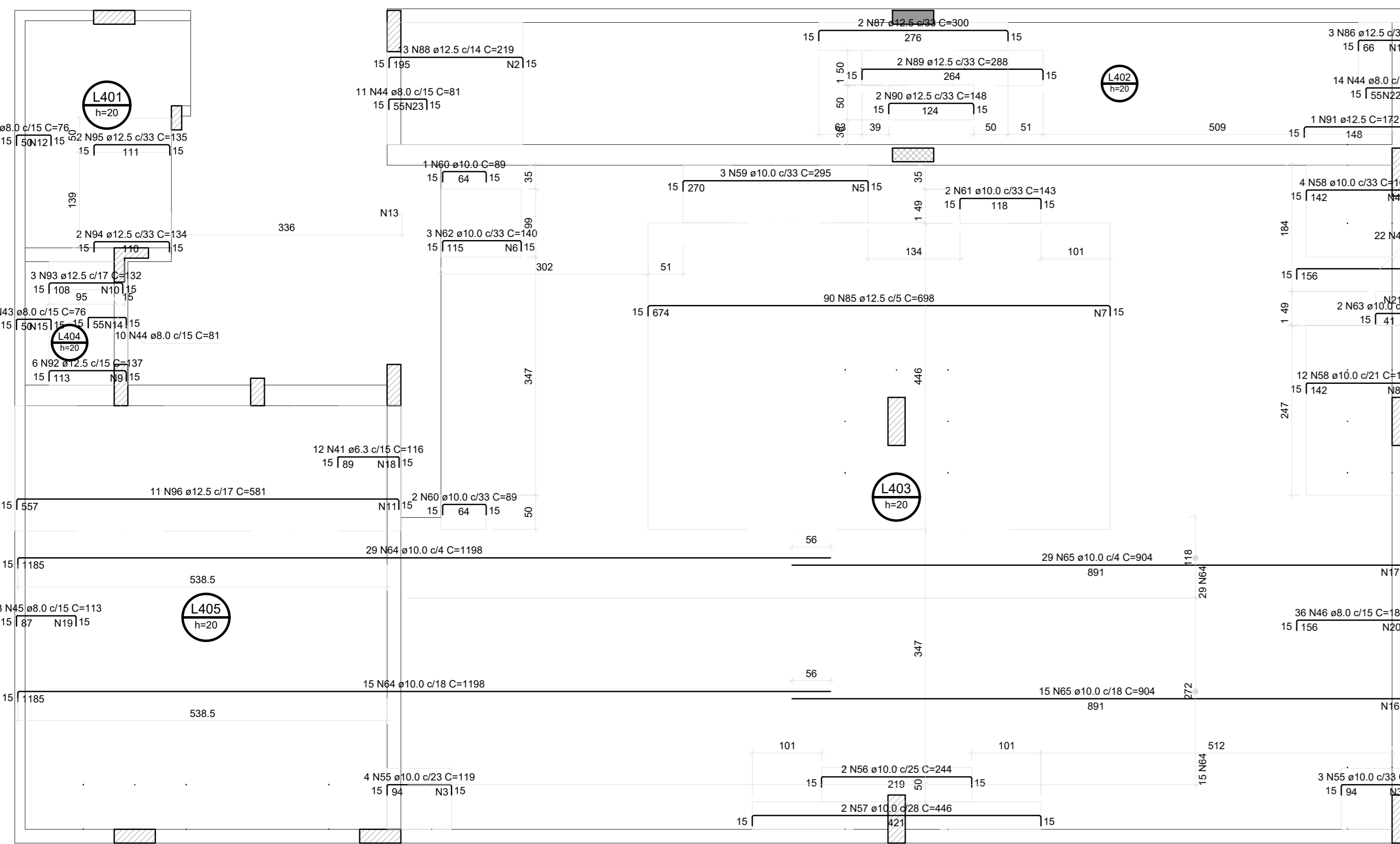




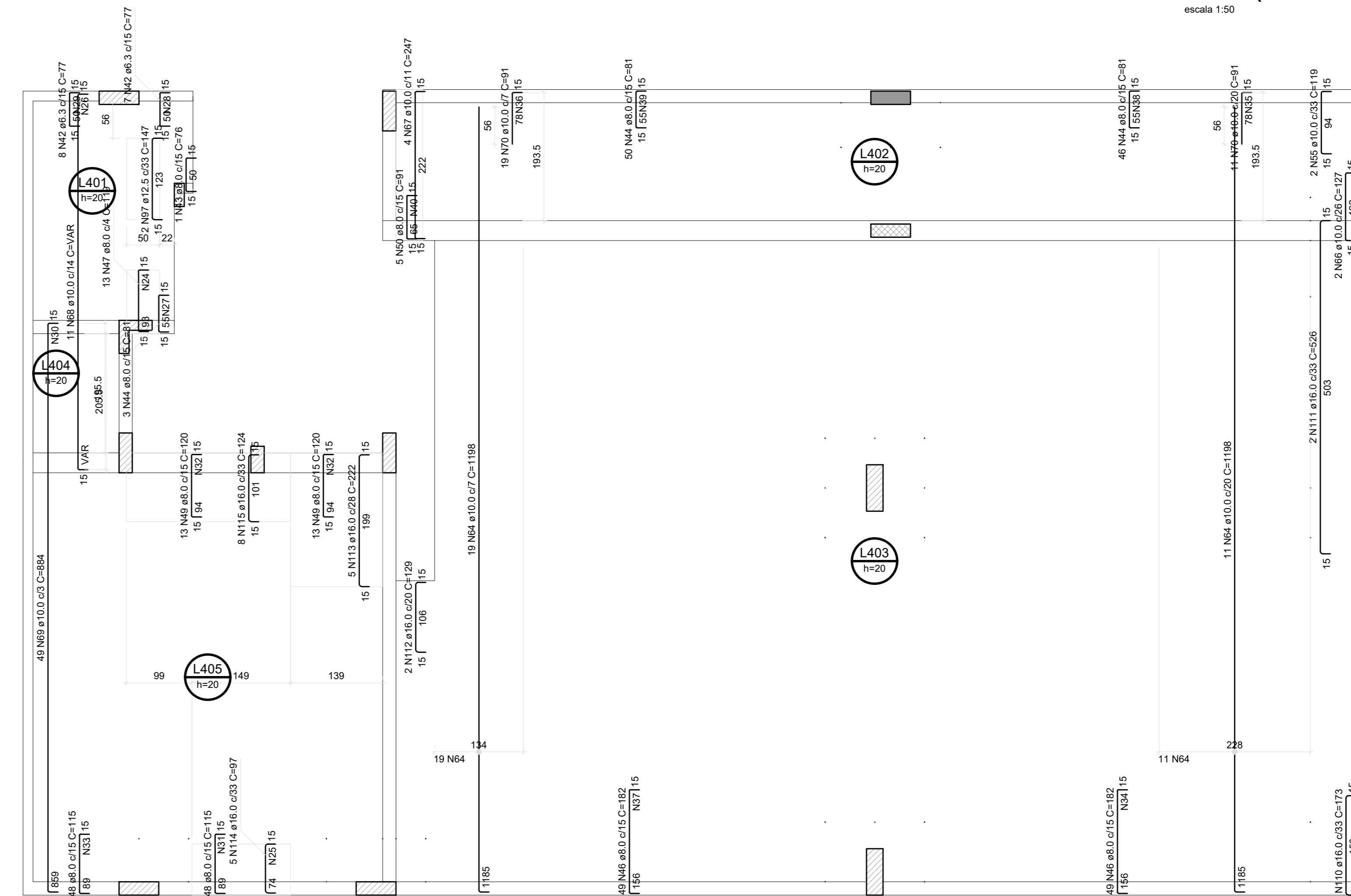
Armação Positiva das Lajes do Pavimento 4º Pav. (Eixo X)  
escala 1:50



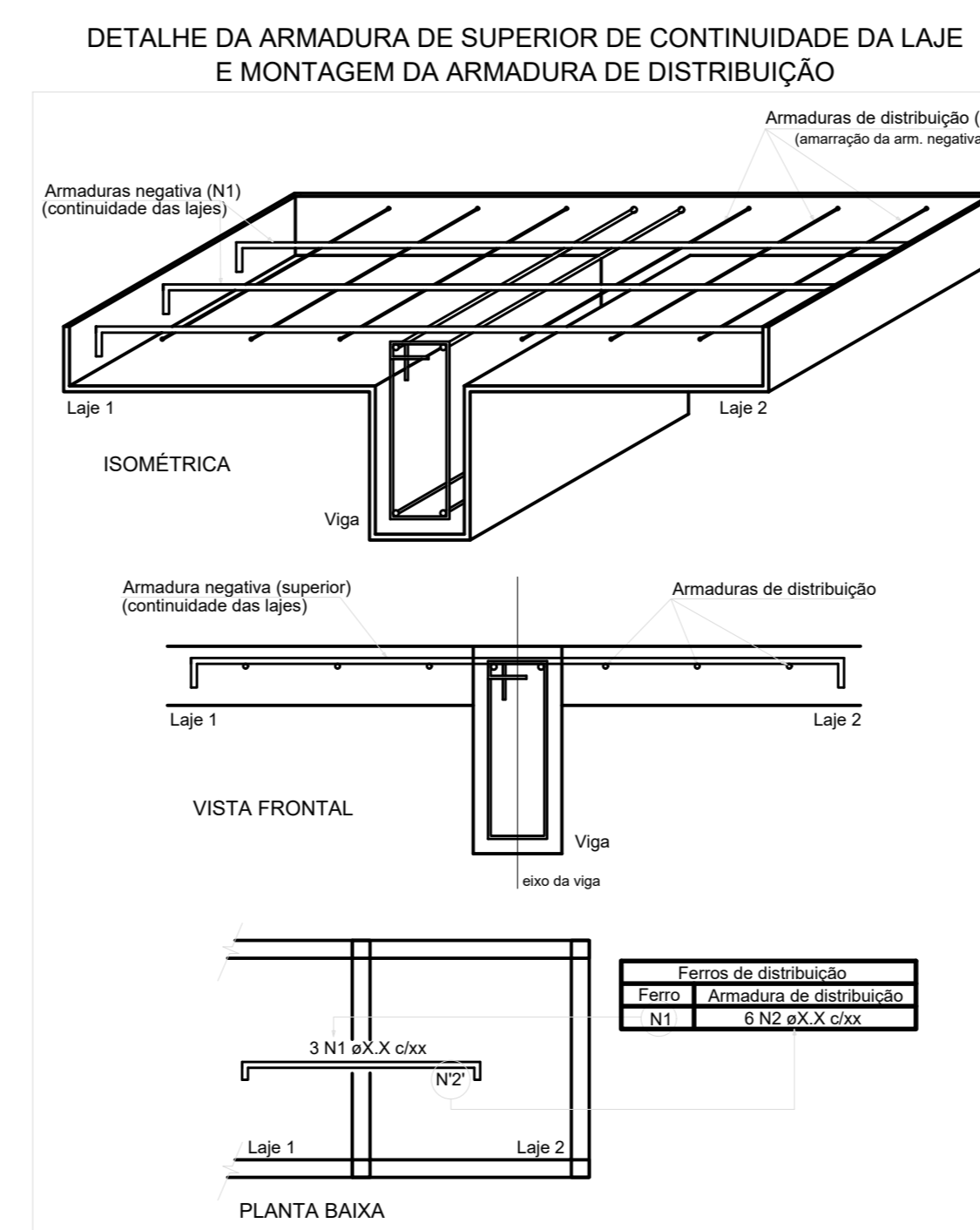
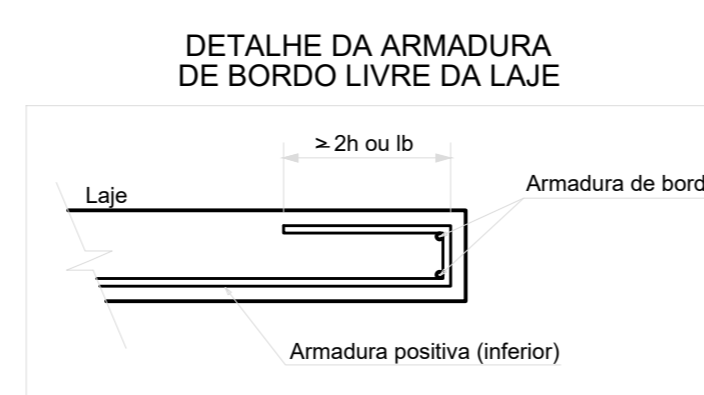
Armação Positiva das Lajes do Pavimento 4º Pav. (Eixo Y)  
escala 1:50



Armação Negativa das Lajes do Pavimento 4º Pav. (Eixo X)  
escala 1:50

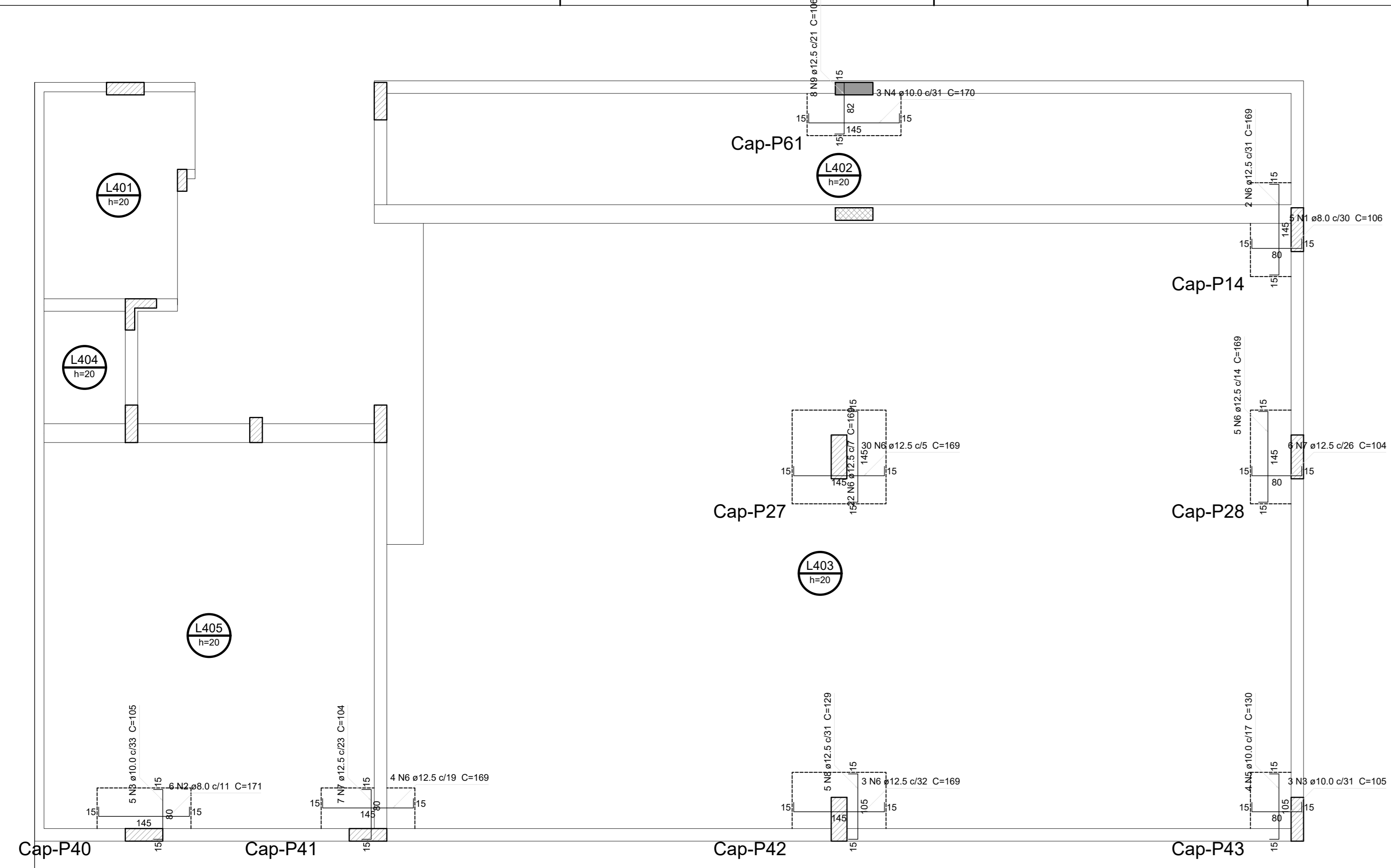


Armação Negativa das Lajes do Pavimento 4º Pav. (Eixo Y)  
escala 1:50

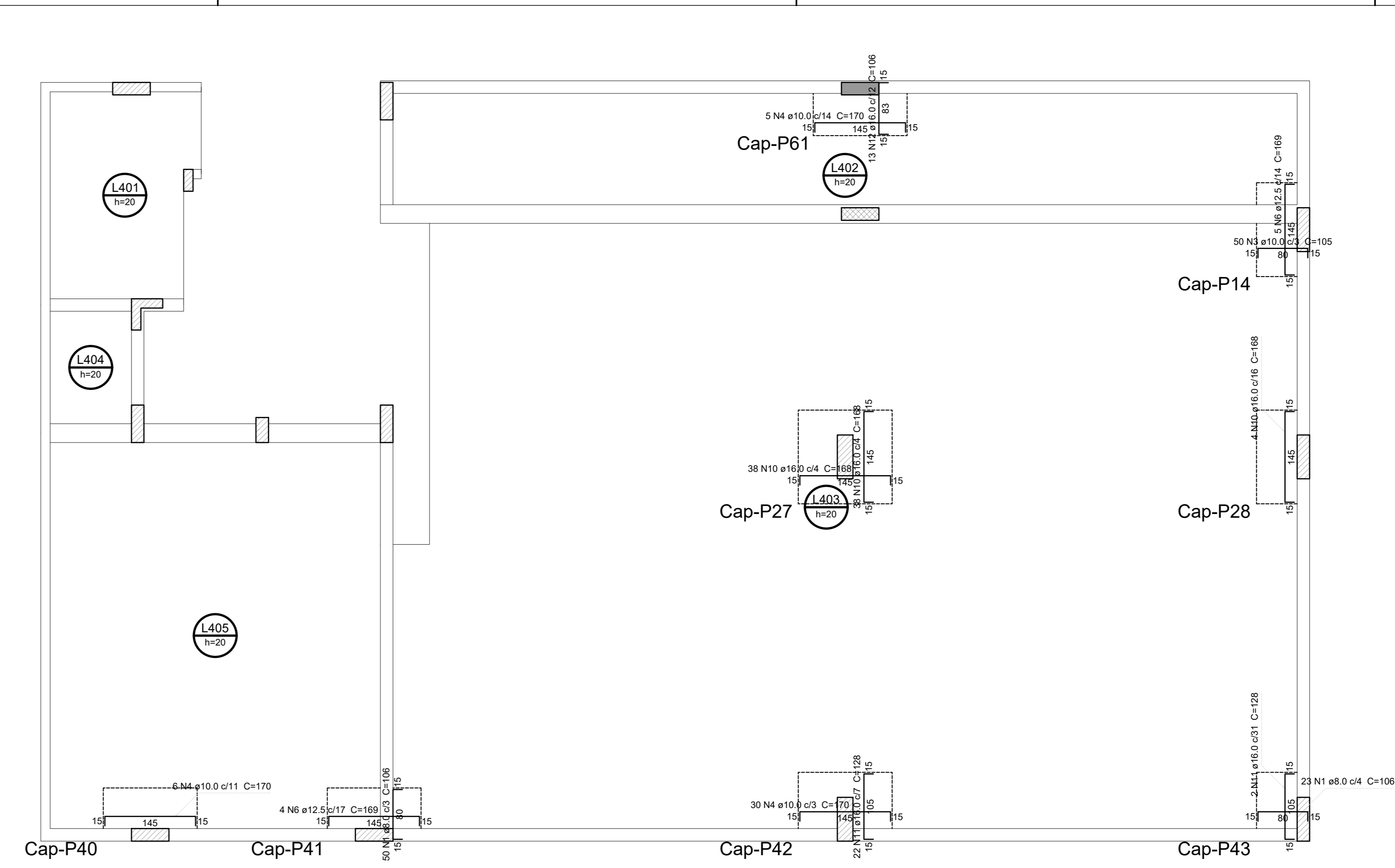


RELAÇÃO DO AÇO - Lajes do 4º Pavimento

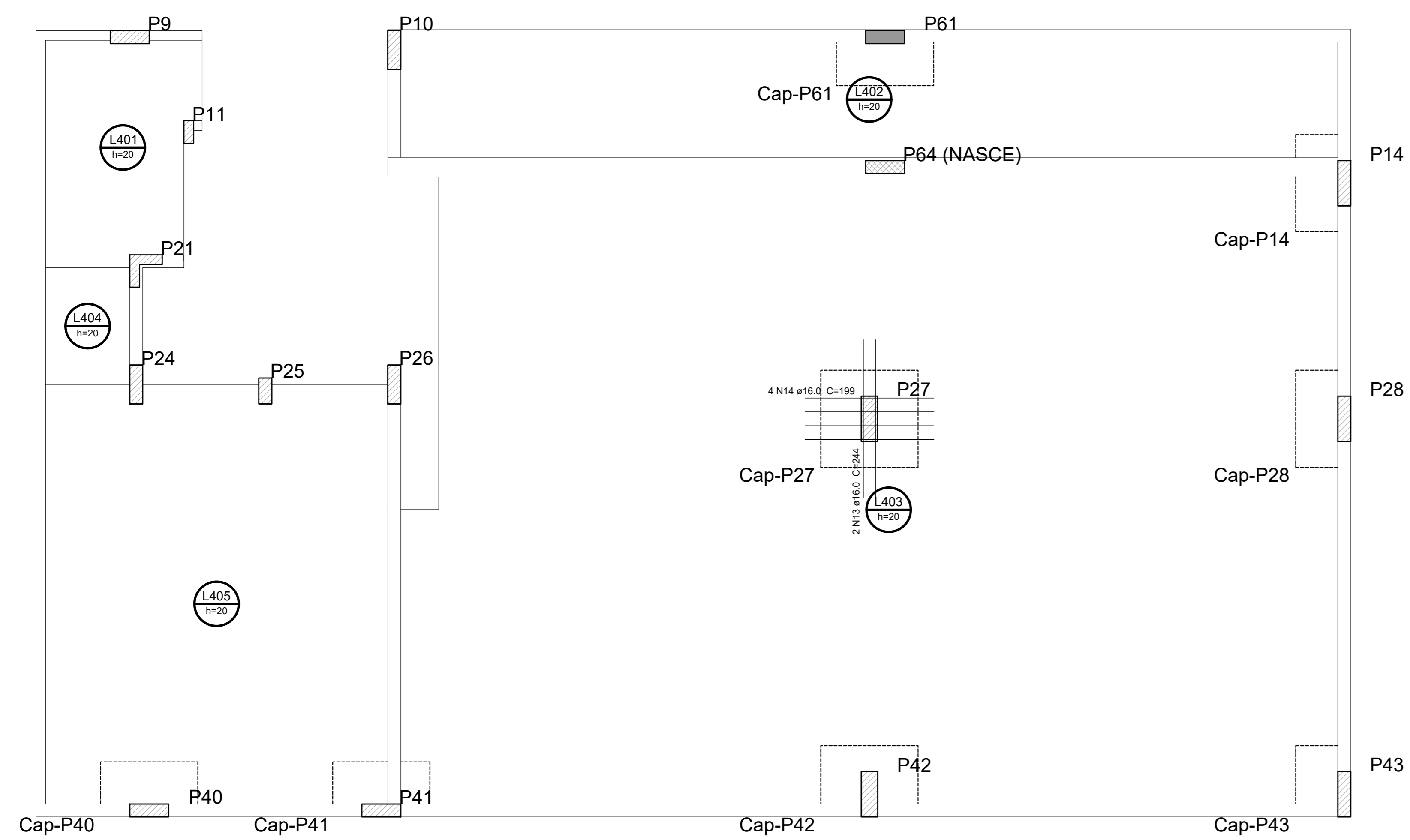
ACO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CA50	1	10	10	10	100
CA50	2	12	20	20	240
CA50	3	14	30	30	420
CA50	4	16	40	40	560
CA50	5	18	50	50	720
CA50	6	20	60	60	960
CA50	7	22	70	70	1240
CA50	8	25	80	80	1600
CA50	9	28	90	90	2016
CA50	10	32	100	100	2560
CA50	11	36	110	110	3168
CA50	12	40	120	120	3840
CA50	13	45	130	130	4680
CA50	14	50	140	140	5600
CA50	15	56	150	150	6720
CA50	16	63	160	160	8064
CA50	17	70	170	170	9600
CA50	18	78	180	180	11376
CA50	19	88	190	190	13344
CA50	20	98	200	200	15520
CA50	21	110	210	210	18900
CA50	22	125	220	220	23520
CA50	23	140	230	230	29280
CA50	24	160	240	240	36480
CA50	25	180	250	250	45000
CA50	26	200	260	260	54720
CA50	27	225	270	270	65760
CA50	28	250	280	280	78000
CA50	29	280	290	290	91440
CA50	30	315	300	300	106080
CA50	31	350	310	310	122040
CA50	32	390	320	320	139360
CA50	33	430	330	330	158040
CA50	34	480	340	340	178080
CA50	35	530	350	350	199500
CA50	36	590	360	360	222480
CA50	37	650	370	370	246960
CA50	38	720	380	380	273000
CA50	39	790	390	390	300600
CA50	40	880	400	400	329760
CA50	41	980	410	410	360480
CA50	42	1080	420	420	392760
CA50	43	1190	430	430	426600
CA50	44	1300	440	440	462000
CA50	45	1420	450	450	500040
CA50	46	1550	460	460	539640
CA50	47	1680	470	470	580800
CA50	48	1820	480	480	623520
CA50	49	1980	490	490	667680
CA50	50	2150	500	500	713200
CA50	51	2350	510	510	760140
CA50	52	2550	520	520	808320
CA50	53	2780	530	530	858720
CA50	54	3000	540	540	911360
CA50	55	3250	550	550	966200
CA50	56	3500	560	560	1023240
CA50	57	3780	570	570	1082400
CA50	58	4080	580	580	1143600
CA50	59	4400	590	590	1206840
CA50	60	4750	600	600	1272000
CA50	61	5100	610	610	1339040
CA50	62	5500	620	620	1407840
CA50	63	5950	630	630	1478400
CA50	64	6450	640	640	1550640
CA50	65	7000	650	650	1624560
CA50	66	7600	660	660	1700160
CA50	67	8250	670	670	1777440
CA50	68	8950	680	680	1856400
CA50	69	9700	690	690	1937040
CA50	70	10500	700	700	2019240
CA50	71	11400	710	710	2103000
CA50	72	12400	720	720	2188320
CA50	73	13500	730	730	2275200
CA50	74	14700	740	740	2363640
CA50	75	16000	750	750	2453640
CA50	76	17400	760	760	2545200
CA50	77	18900	770	770	2638320
CA50	78	20500	780	780	2733000
CA50	79	22200	790	790	2829240
CA50	80	24000	800	800	2927040
CA50	81	26000	810	810	3026400
CA50	82	28000	820	820	3127360
CA50	83	30000	830	830	3229800
CA50	84	32000	840	840	3333760
CA50	85	34000	850	850	3439200
CA50	86	36000	860	860	3546160
CA50	87	38000	870	870	3654560
CA50	88	40000	880	880	3764400
CA50	89	42000	890	890	3875680
CA50	90	44000	900	900	3988320
CA50	91	46000	910	910	4102360
CA50	92	48000	920	920	4217760
CA50	93	50000	930	930	4334440
CA50	94	52000	940	940	4452400
CA50	95	54000	950	950	4571600
CA50	96	56000	960	960	4692000
CA50	97	58000	970	970	4813600
CA50	98	60000	980	980	4936400
CA50	99	62000	990	990	5060400
CA50	100	64000	1000	1000	5185600
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CA50	104	72000	1040	1040	5698400
CA50	105	74000	1050	1050	5829600
CA50	106	76000	1060	1060	5962000
CA50	107	78000	1070	1070	6095600
CA50	108	80000	1080	1080	6230400
CA50	109	82000	1090	1090	6366400
CA50	110	84000	1100	1100	6503600
CA50	111	86000	1110	1110	6642000
CA50	112	88000	1120	1120	6781600
CA50	113	90000	1130	1130	6922400
CA50	114	92000	1140	1140	7064400
CA50	115	94000	1150	1150	7207600
CA50	116	96000	1160	1160	7352000
CA50	117	98000	1170	1170	7497600
CA50	118	100000	1180	1180	7644400
CA50	119	102000	1190	1190	7792400
CA50	120	104000	1200	1200	7941600
CA50	121	106000	1210	1210	8092000
CA50	122	108000	1220	1220	8243600
CA50	123	110000	1230	1230	8396400
CA50	124	112000	1240	1240	8550400
CA50	125	114000	1250	1250	8705600
CA50	126	116000	1260	1260	8862000
CA50	127	118000	1270	1270	9019600
CA50	128	120000	1280	1280	9178400
CA50	129	122000	1290	1290	9338400
CA50	130	124000	1300	1300	9499600
CA50	131	126000	1310	1310	9662000
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CA50	136	136000	1360	1360	10493600
CA50	137	138000	1370	1370	10664400
CA50	138	140000	1380	1380	10836400
CA50	139	142000	1390	1390	11009600
CA50	140	144000	1400	1400	11184000
CA50	141	146000	1410	1410	11359600
CA50	142	148000	1420	1420	11536400
CA50	143	150000	1430	1430	11714400
CA50	144	152000	1440	1440	11893600
CA50	145	154000	1450	1450	12074000
CA50	146	156000	1460	1460	12255600
CA50	147	158000	1470	1470	12438400
CA50	148	160000	1480	1480	12622400
CA50	149	162000	1490	1490	12807600
CA50	150	164000	1500	1500	12994000
CA50	151	166000	1510	1510	13181600
CA50	152	168000	1520	1520	13370400
CA50	153	170000	1530	1530	13560400
CA50	154	172000	1540	1540	13751600
CA50	155	174000	1550	1550	13944000
CA50	156	176000	1560	1560	14137600
CA50	157	178000	1570	1570	14332400
CA50	158	180000	1580	1580	14528400
CA50	159	182000	1590	1590	14725600
CA50	160	184000	1600	1600	14924000
CA50	161	186000	1610	1610	15123600
CA50	162	188000	1620	1620	15324400
CA50	163	190000	1630	1630	15526400
CA50	164	192000	1640	1640	15729600
CA50	165	194000	1650	1650	15934000
CA50	166	196000	1660	1660	16139600
CA50	167	198000	1670	1670	16346400
CA50	168	200000	1680	1680	16554400
CA50	169	202000	1690	1690	16763600
CA50	170	204000	1700	1700	16974000
CA50	171	206000	1710	1710	17185600
CA50	172	208000	1720	1720	17398400
CA50	173	210000	1730	1730	17612400
CA50	174	212000	1740	1740	17827600
CA50	175	214000	1750	1750	18044000
CA50	176	216000	1760	1760	18261600
CA50	177	218000	1770	1770	18480400
CA50	178	220000	1780	1780	18700400
CA50	179	222000	1790	1790	18921600
CA50	180	224000	1800	1800	19144000
CA50	181	226000	1810	1810	19367600
CA50	182	228000	1820	1820	19592400
CA50	183	230000	1830	1830	19818400
CA50	184	232000	1840	1840	20045600
CA50	185	234000	1850	1850	20274000
CA50	186	236000	1860	1860	20503600
CA50	187	238000	1870	1870	20734400
CA50	188	240000	1880	1880	20966400
CA50	189	242000	1890	1890	2119960



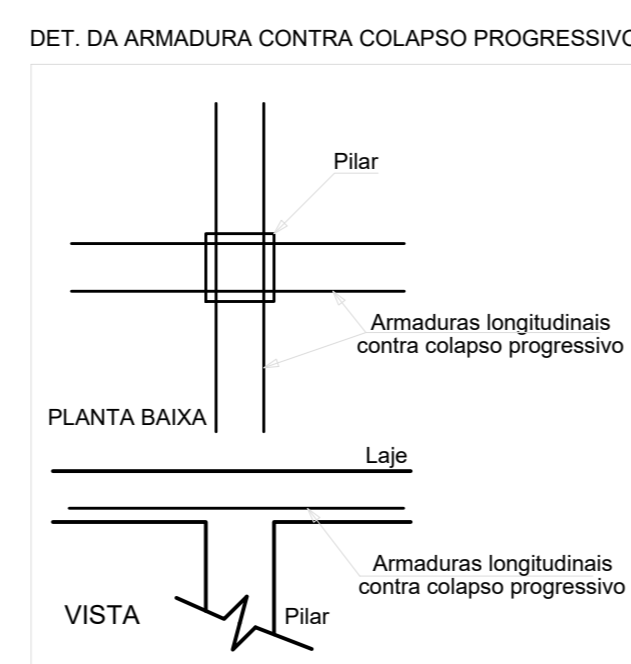
Armação Positiva das Regiões Maciças do Pavimento 4º Pav. escala 1:50



Armação Negativa das Regiões Maciças do Pavimento 4º Pav. escala 1:50



Detalhamento de Punção e Cisalhamento das Lajes do Pavimento 4º Pav. (Nível 990) escala 1:50



RELAÇÃO DO AÇO - Lotes de 4

MACIÇOS NEGATIVOS	MACIÇOS POSITIVOS	PUNÇÃO	C. TOTAL (cm)		
CA50	1	8.0	76	106	6268
	2	8.0	6	171	1028
	3	10.0	58	155	6090
	4	10.0	44	170	7480
	5	10.0	4	130	520
	6	12.5	75	169	12675
	7	12.5	13	104	1352
	8	12.5	5	129	645
	9	12.5	8	106	848
	10	16.0	80	168	13440
	11	16.0	24	128	3072
	12	16.0	13	106	1378
	13	16.0	2	244	488
	14	16.0	4	199	796

Resumo do aço

AÇO	DIAM (mm)	C. TOTAL (m)	PESO + 10% (kg)
CA50	8.0	93	40.3
	10.0	140.9	95.6
	12.5	155.2	164.5
	16.0	191.8	332.9
<b>PESO TOTAL (kg)</b>			<b>633.3</b>

Revisões da prancha

-			
-			
-			

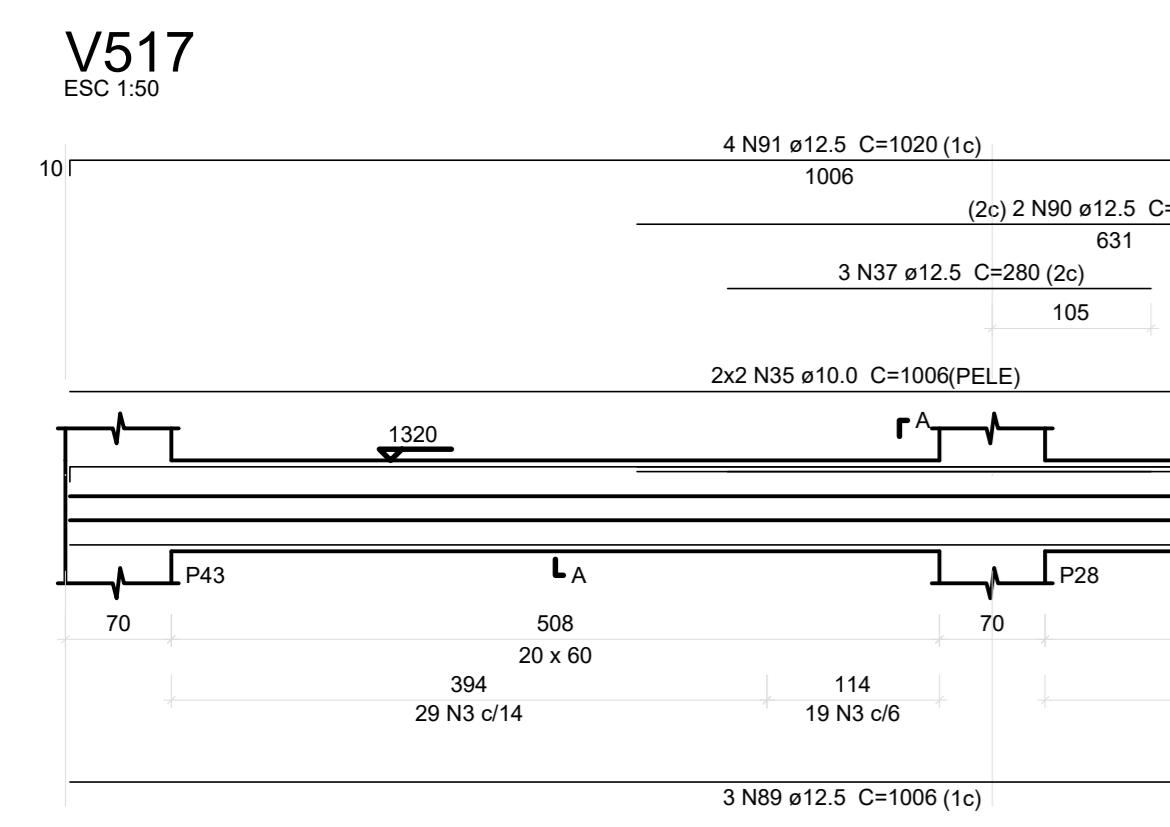
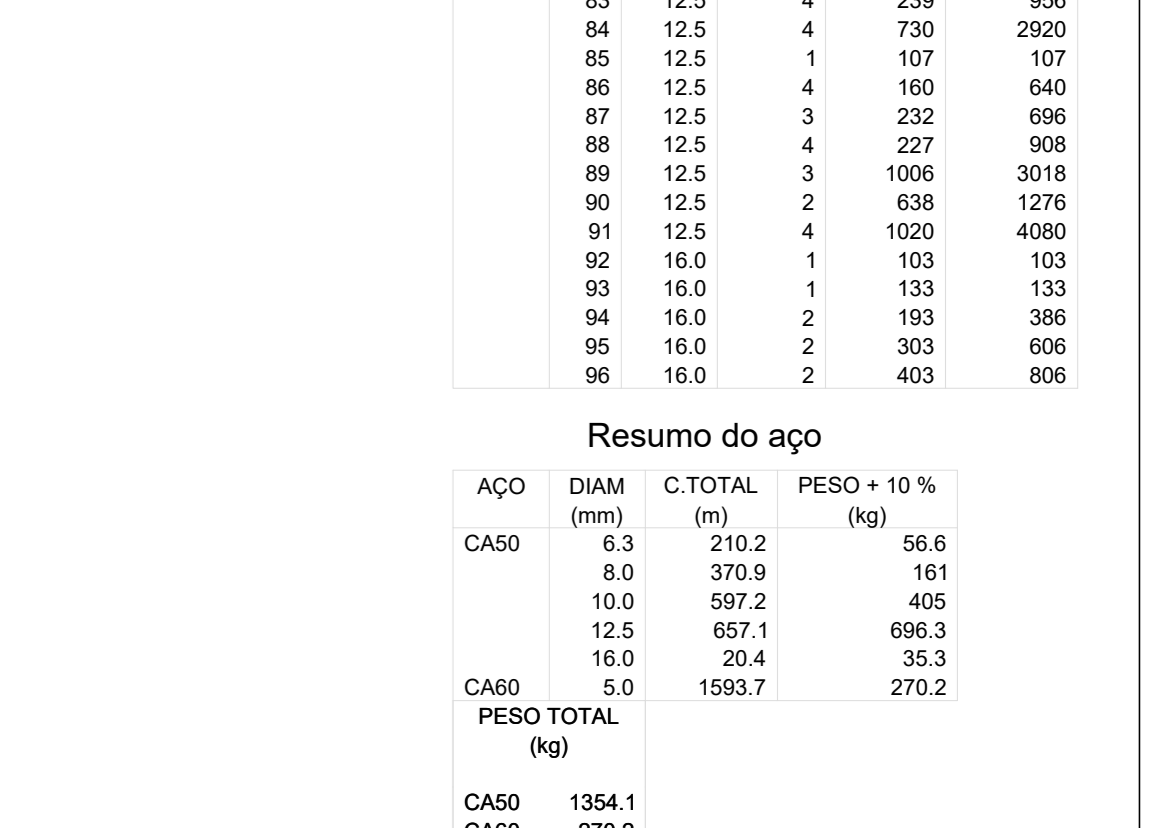
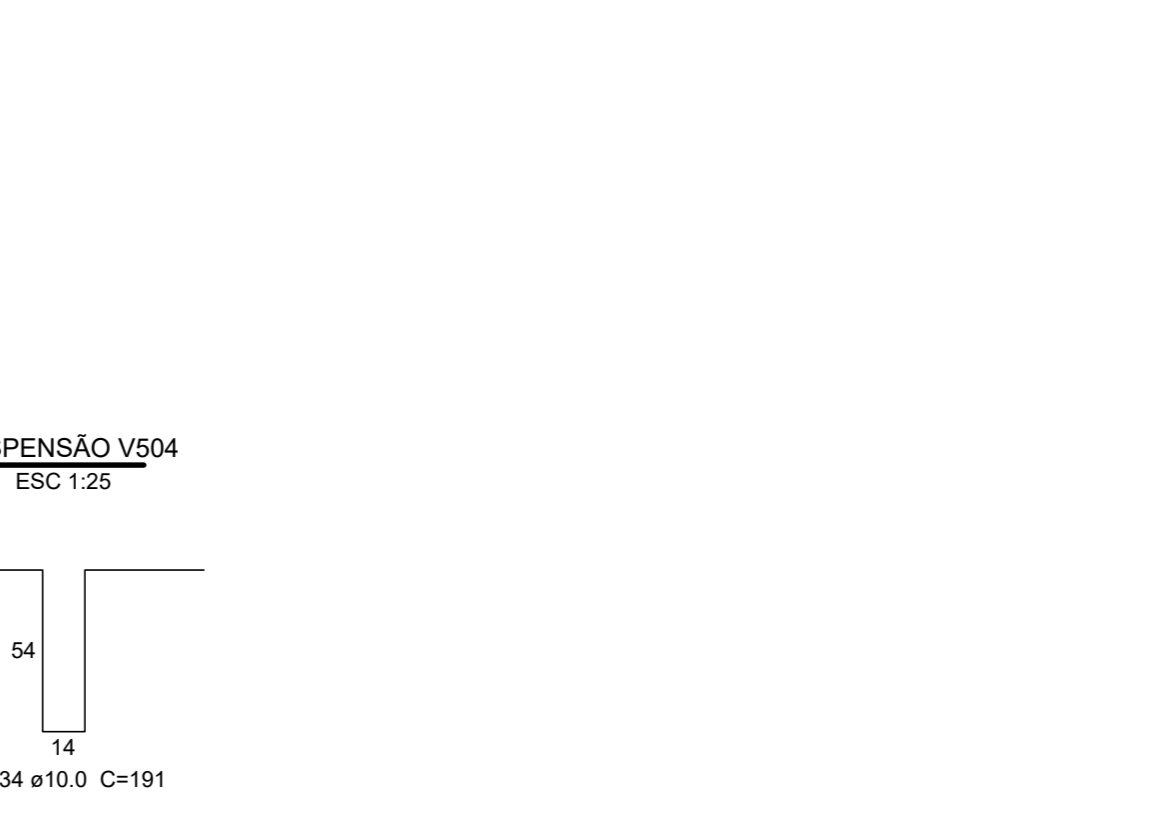
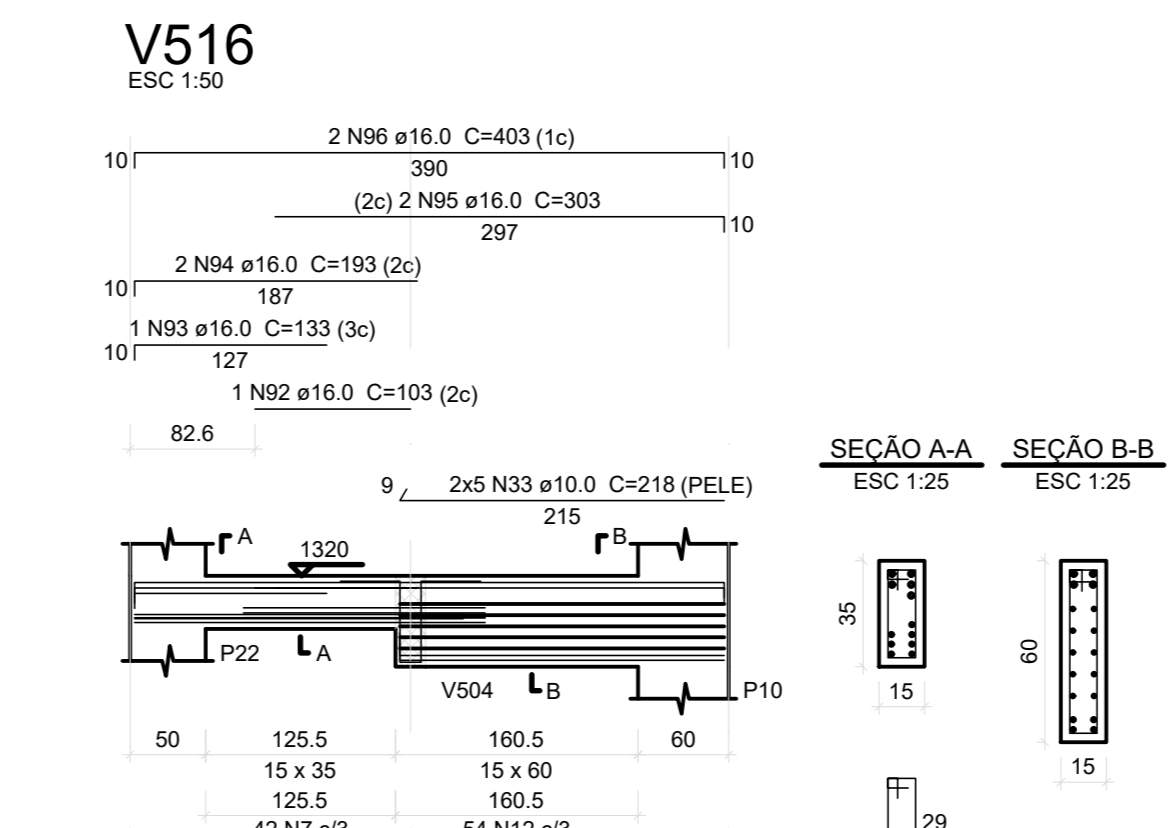
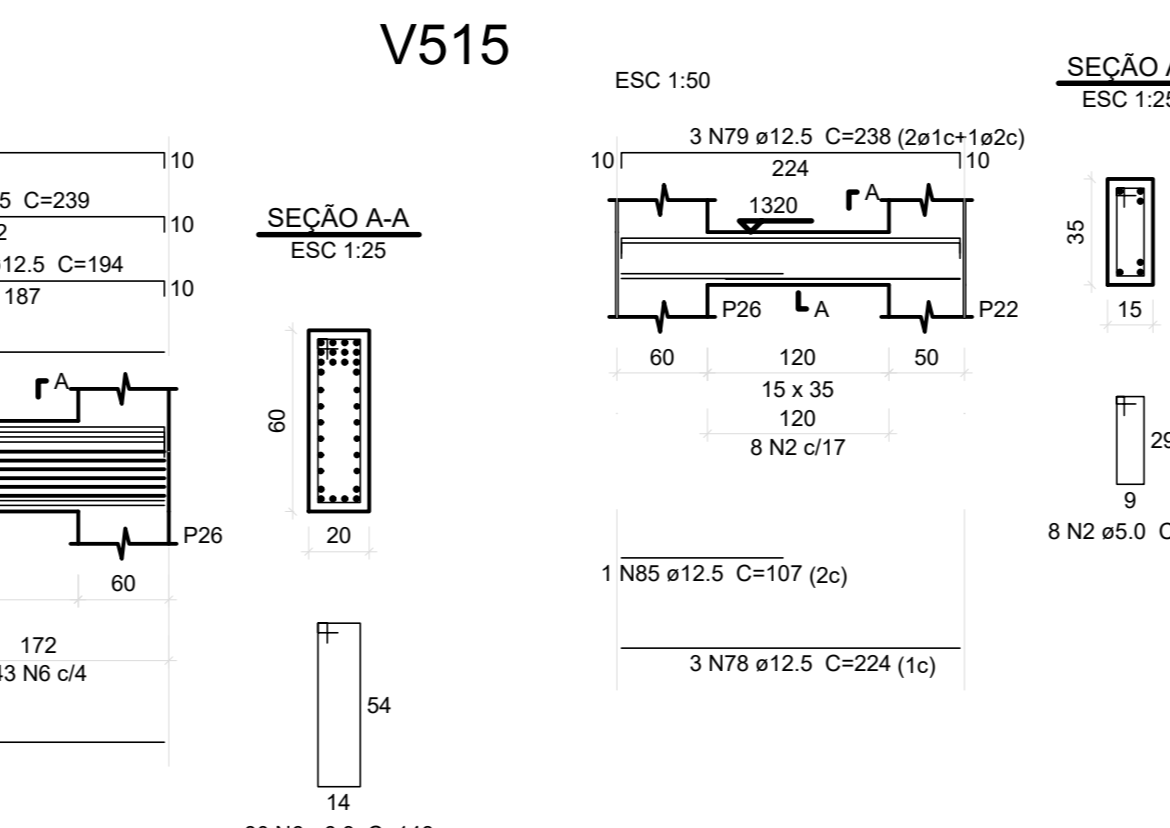
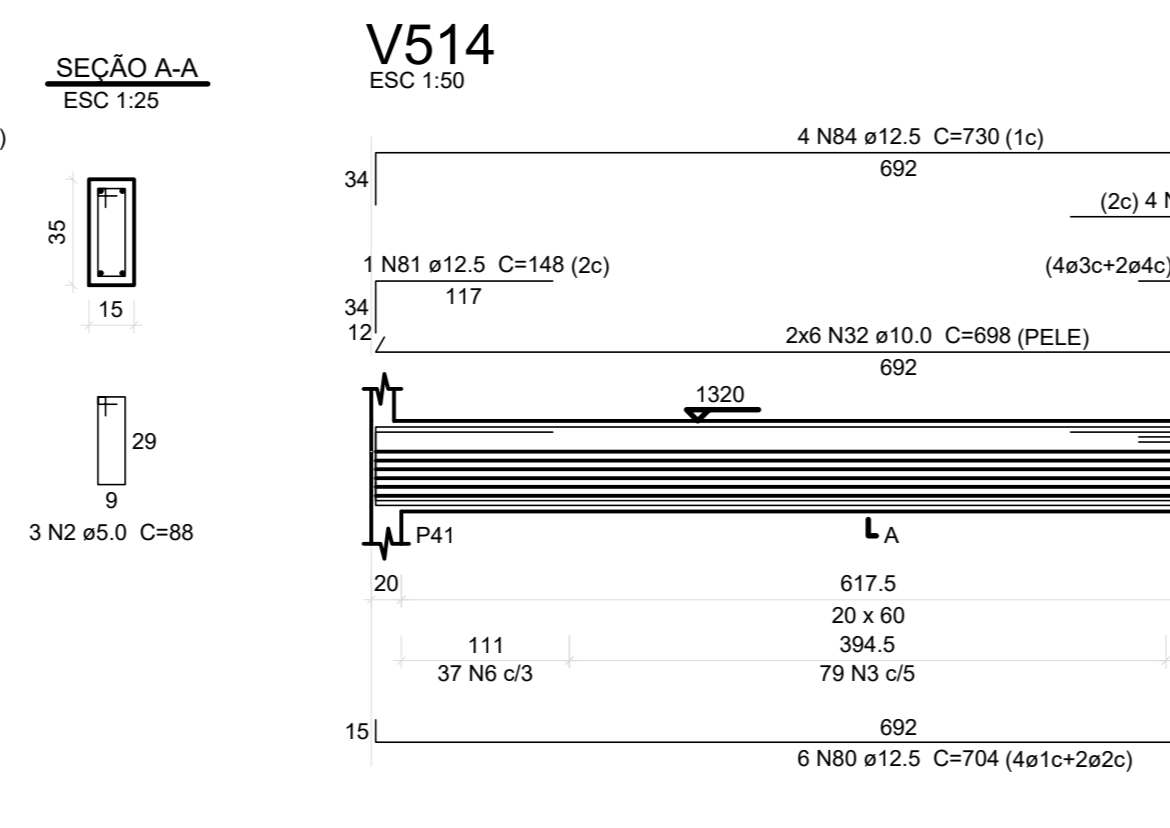
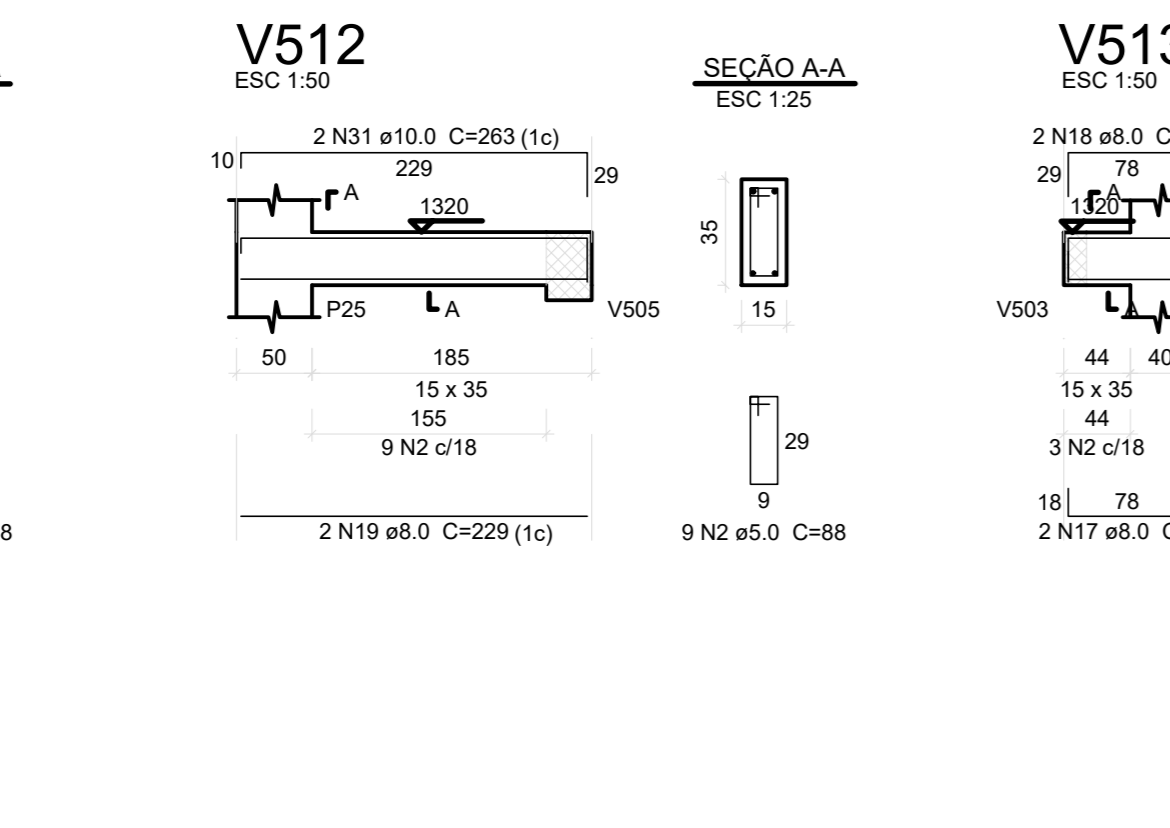
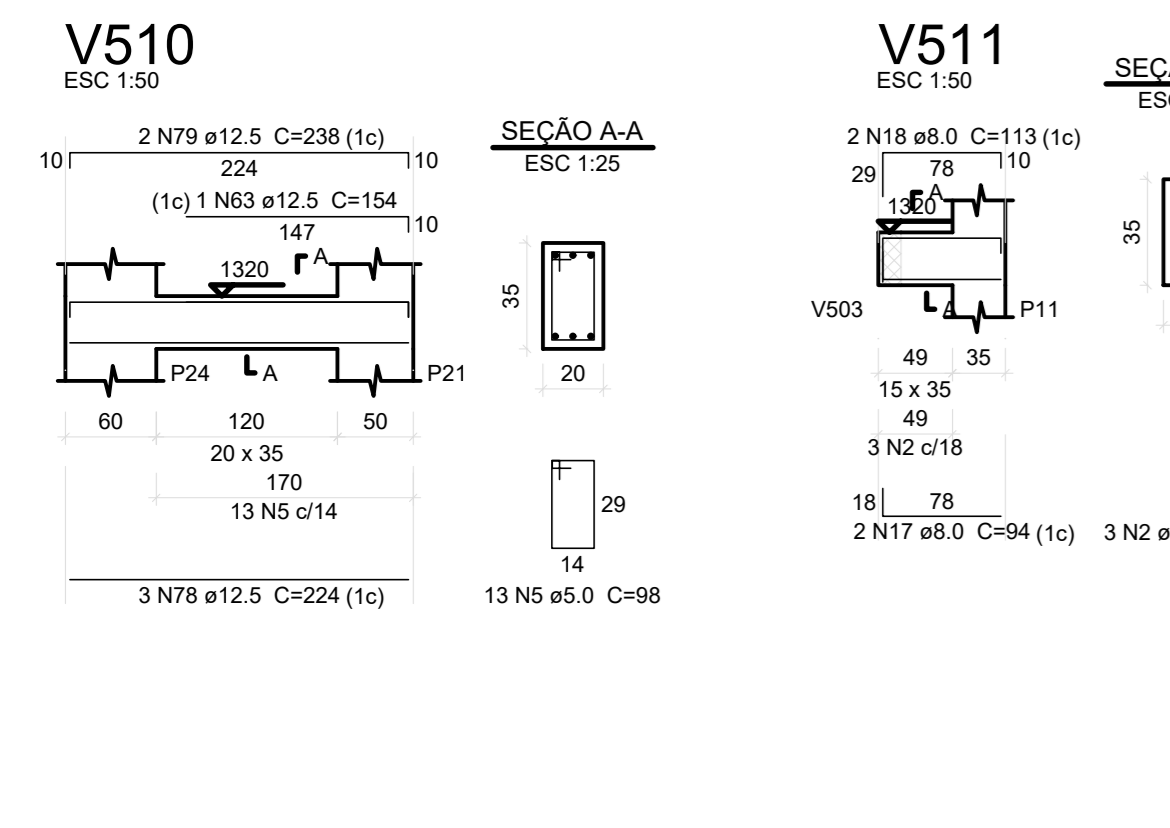
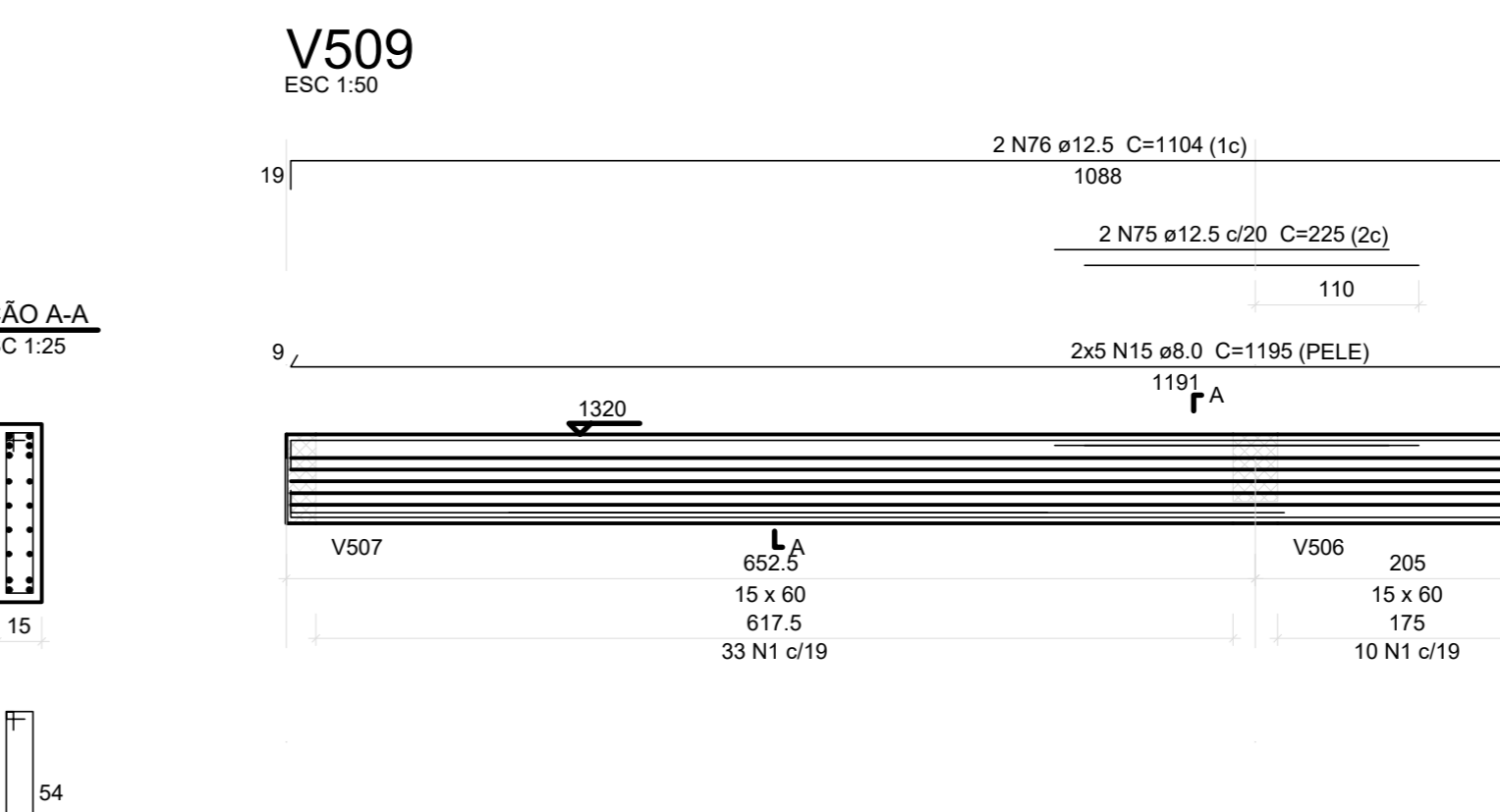
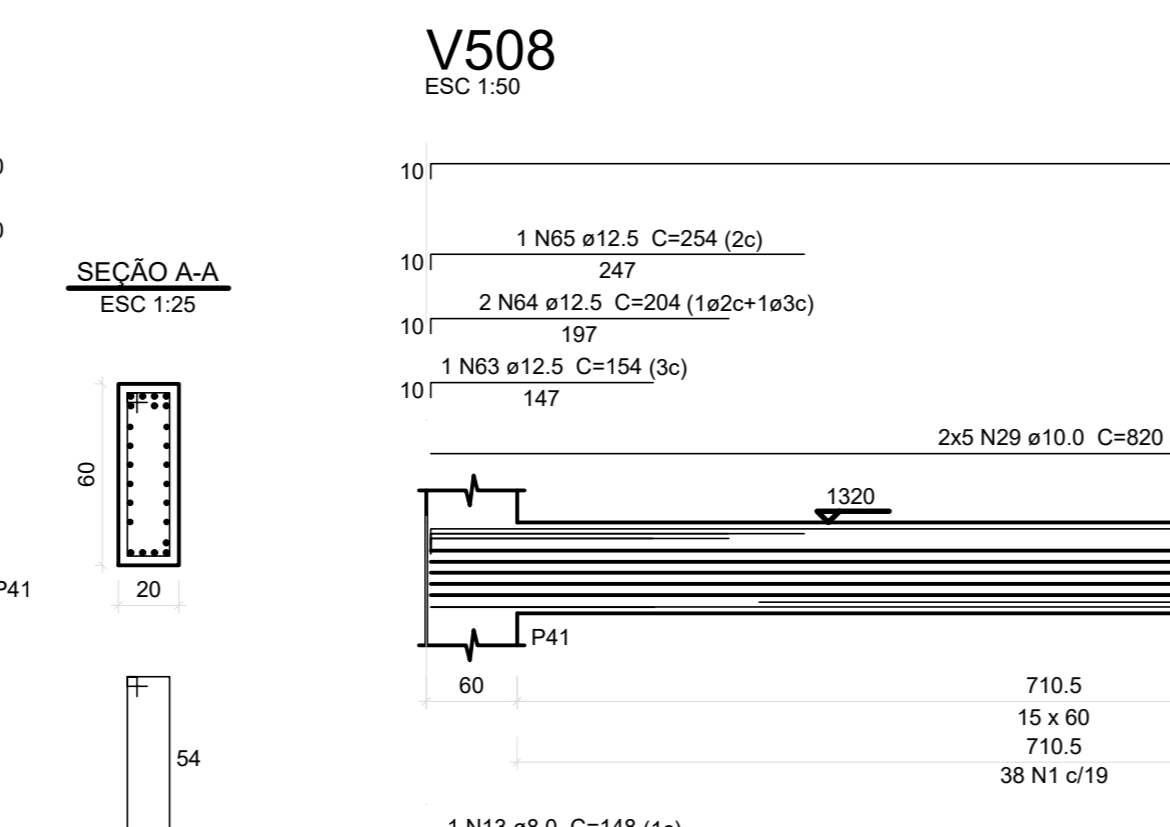
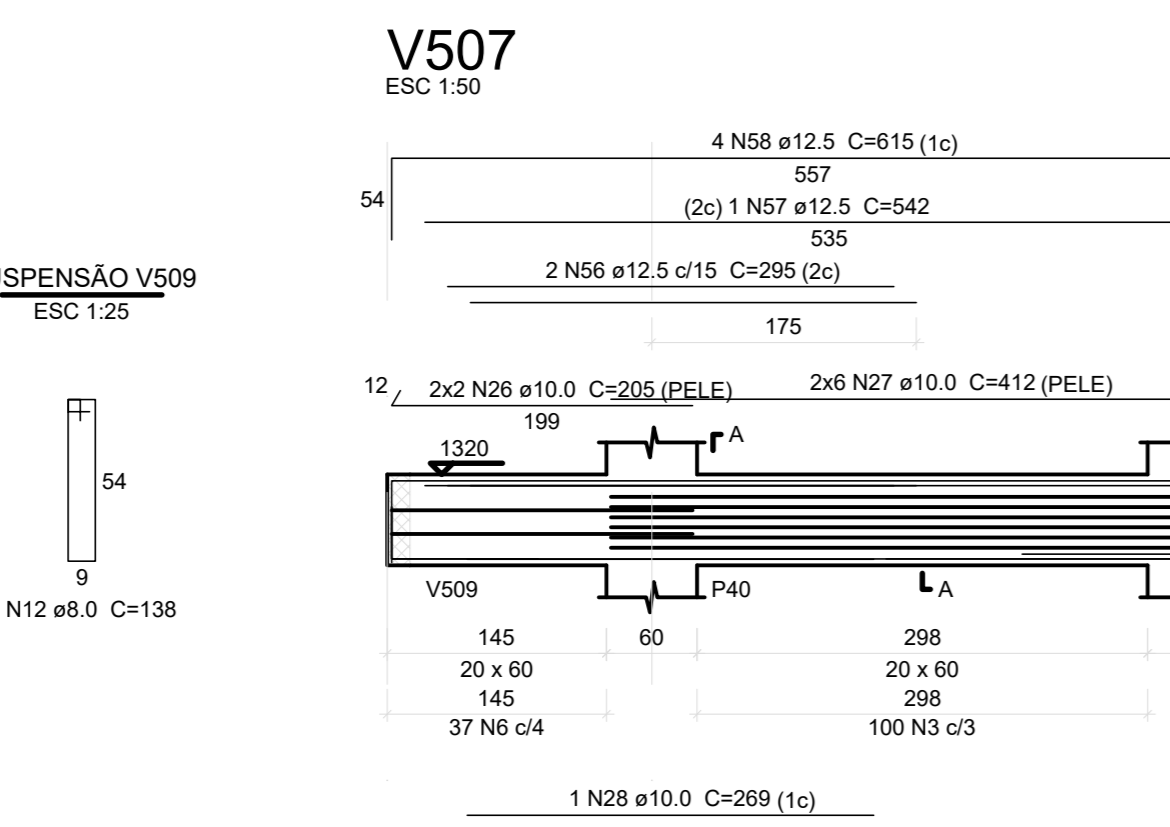
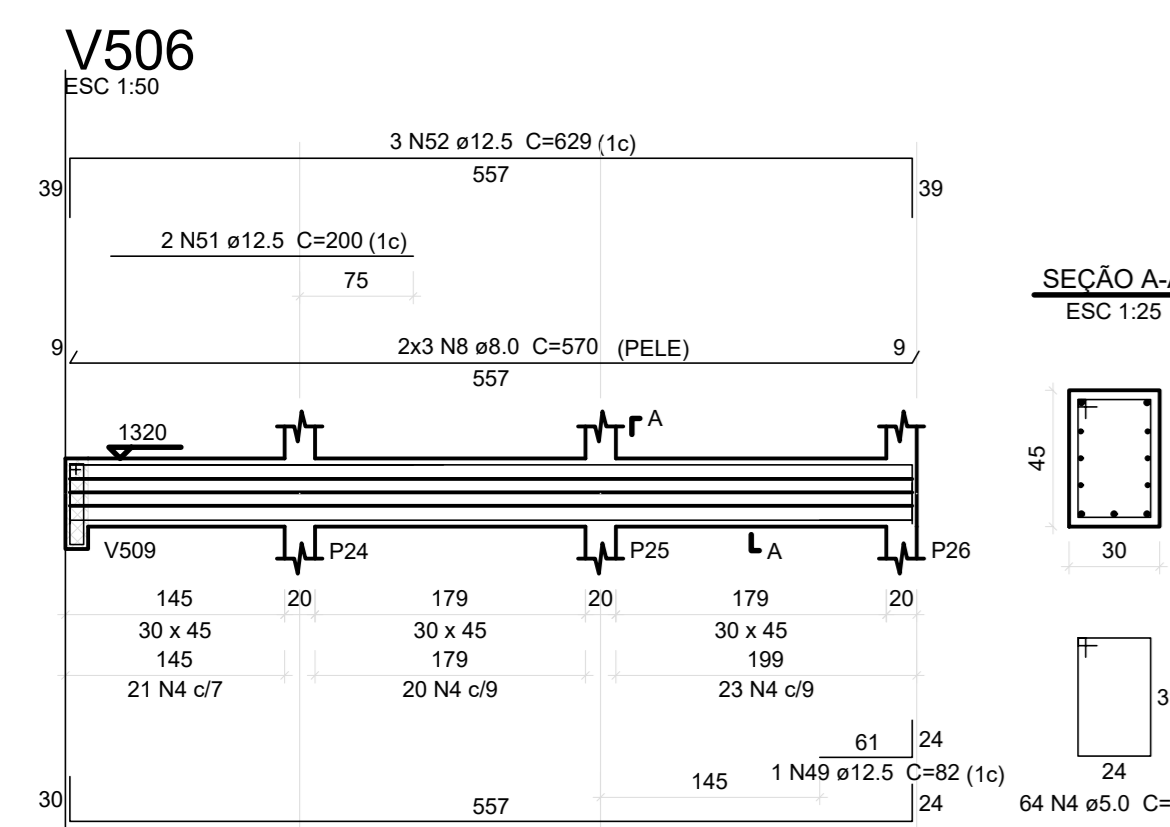
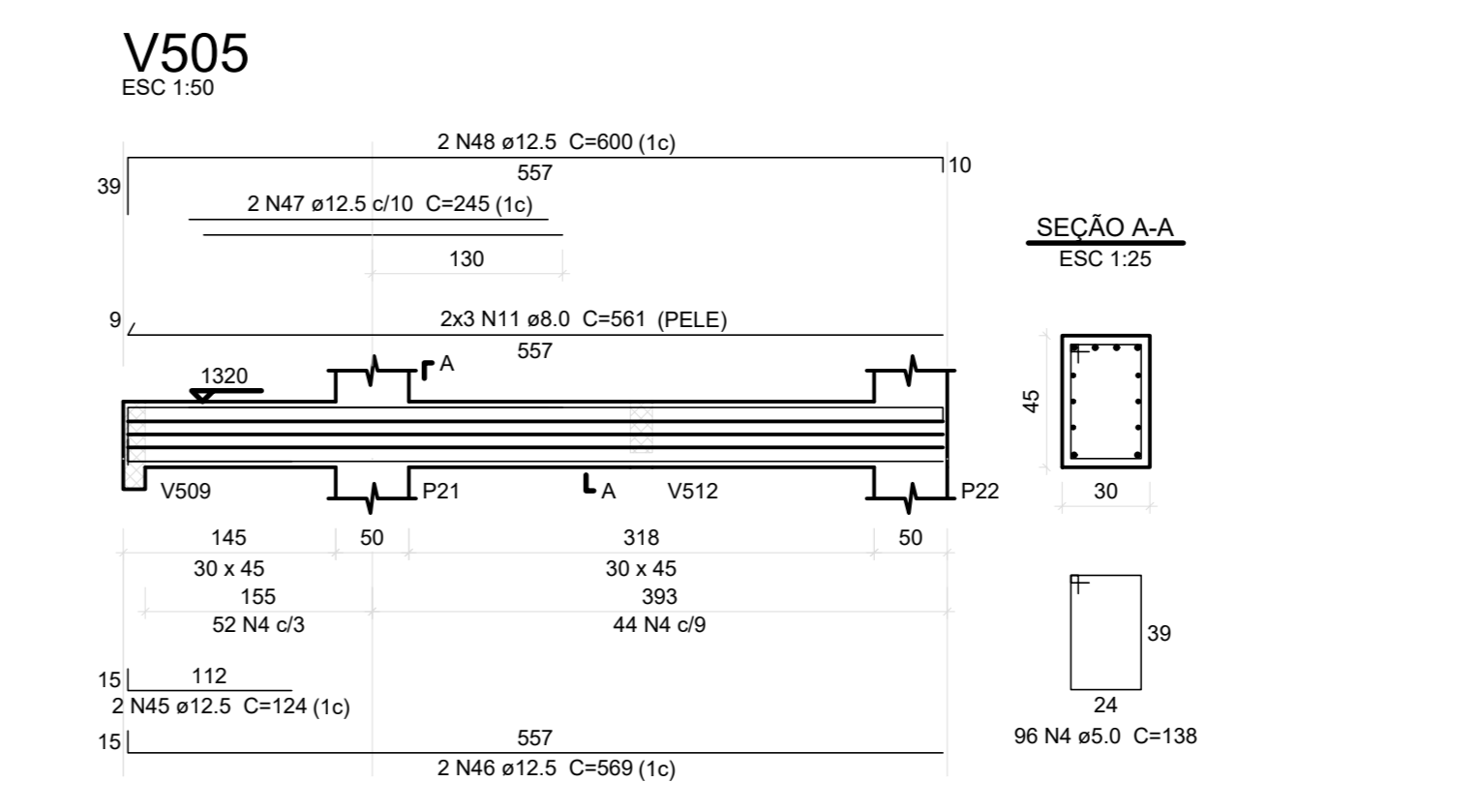
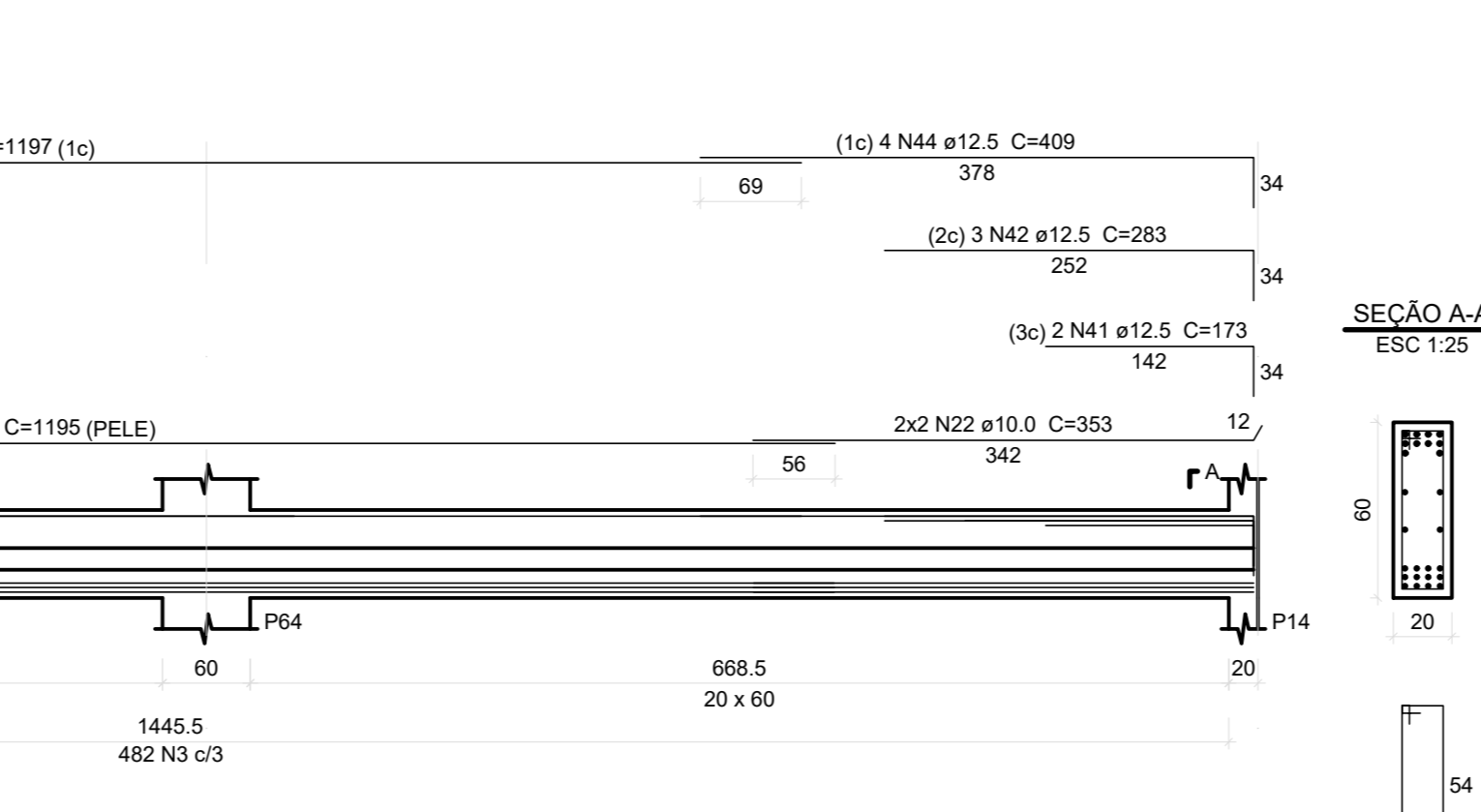
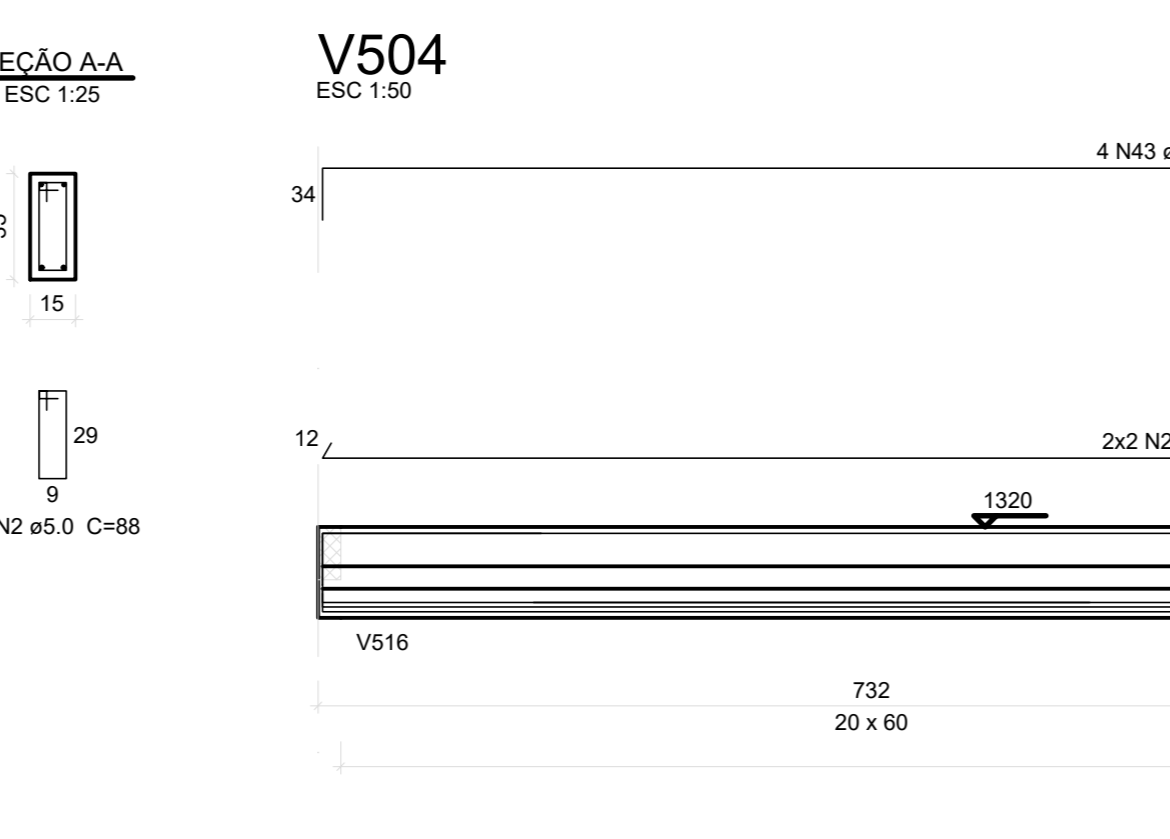
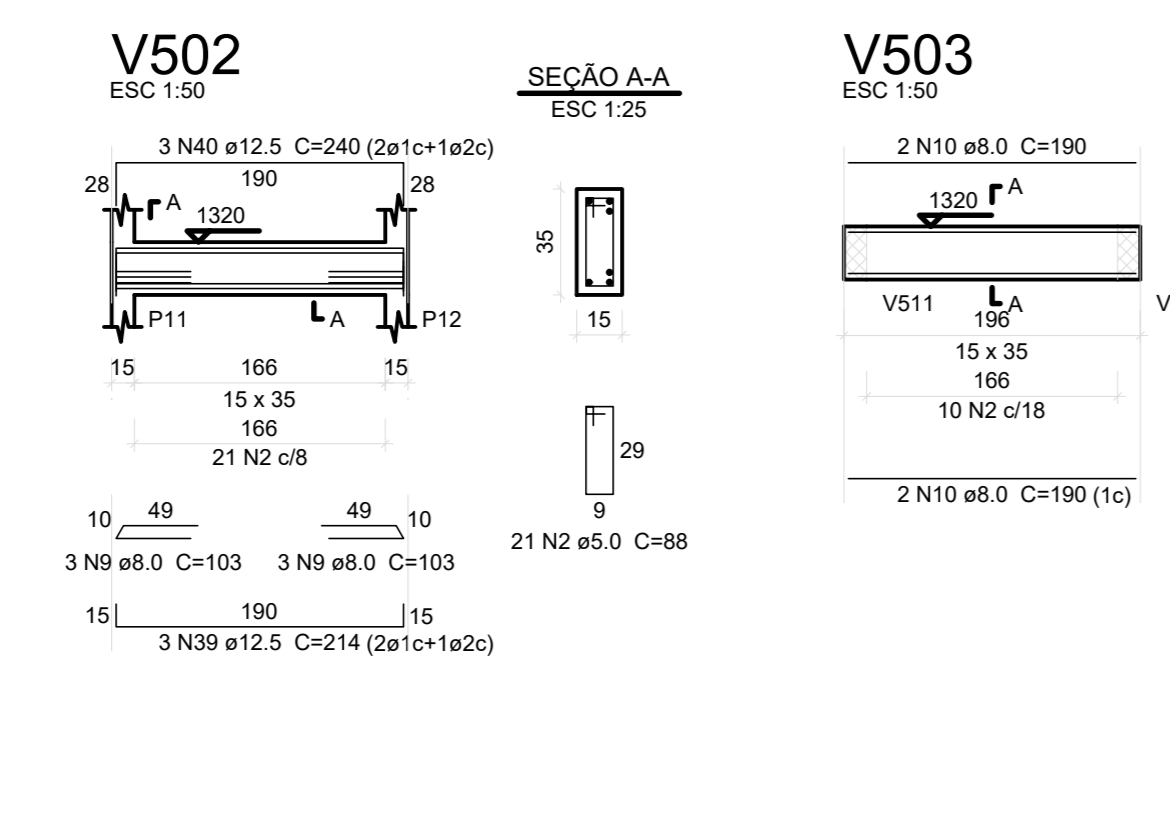
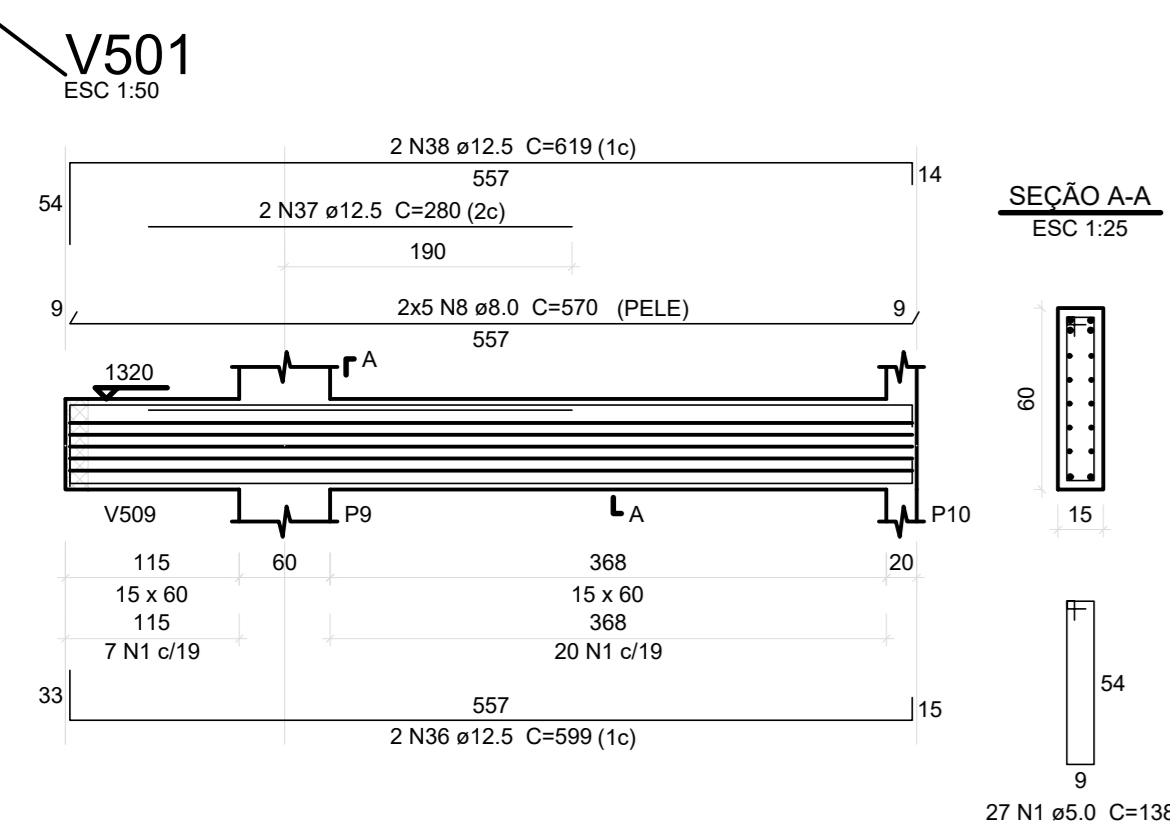
Emissão Inicial LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_







ACO	N	DIAM (mm)	QUANT	C.LINHT (mm)	C.TOTAL (mm)
CA60	1	5.0	164	138	2832
CA60	2	5.0	54	88	872
CA60	3	5.0	174	148	10822
CA60	4	5.0	160	138	22080
CA60	5	5.0	13	88	1274
CA60	6	6.3	117	148	17316
CA60	7	6.3	42	88	3686
CA60	8	6.0	16	570	920
CA60	9	8.0	8	103	824
CA60	10	8.0	4	190	760
CA60	11	8.0	6	561	3366
CA60	12	8.0	57	138	7866
CA60	13	8.0	1	148	148
CA60	14	8.0	1	191	191
CA60	15	8.0	10	1195	11950
CA60	16	8.0	10	70	700
CA60	17	8.0	4	94	376
CA60	18	8.0	4	113	452
CA60	19	8.0	2	229	458
CA60	20	8.0	4	218	872
CA60	21	10.0	4	1195	4780
CA60	22	10.0	4	353	1412
CA60	23	10.0	1	368	368
CA60	24	10.0	11	1198	13178
CA60	25	10.0	4	342	3762
CA60	26	10.0	4	205	820
CA60	27	10.0	12	412	4944
CA60	28	10.0	1	269	269
CA60	29	10.0	10	820	8200
CA60	30	10.0	8	788	6304
CA60	31	10.0	2	263	526
CA60	32	10.0	12	698	8376
CA60	33	10.0	10	218	2180
CA60	34	10.0	3	191	573
CA60	35	10.0	4	1006	4024
CA60	36	12.5	2	599	1198
CA60	37	12.5	5	280	1400
CA60	38	12.5	2	619	1238
CA60	39	12.5	3	214	642
CA60	40	12.5	2	240	480
CA60	41	12.5	2	173	346
CA60	42	12.5	3	283	849
CA60	43	12.5	4	1197	4788
CA60	44	12.5	4	409	1636
CA60	45	12.5	4	154	616
CA60	46	12.5	2	569	1138
CA60	47	12.5	2	245	490
CA60	48	12.5	1	62	62
CA60	49	12.5	1	124	124
CA60	50	12.5	2	200	400
CA60	51	12.5	2	200	400
CA60	52	12.5	3	629	1887
CA60	53	12.5	1	254	254
CA60	54	12.5	1	140	140
CA60	55	12.5	4	368	1472
CA60	56	12.5	2	295	590
CA60	57	12.5	1	64	64
CA60	58	12.5	1	842	842
CA60	59	12.5	1	338	338
CA60	60	12.5	6	802	4812
CA60	61	12.5	1	337	337
CA60	62	12.5	3	773	2319
CA60	63	12.5	2	154	308
CA60	64	12.5	2	294	588
CA60	65	12.5	1	203	203
CA60	66	12.5	4	355	1420
CA60	67	12.5	1	143	143
CA60	68	12.5	1	203	203
CA60	69	12.5	2	1197	2394
CA60	70	12.5	2	425	850
CA60	71	12.5	1	363	363
CA60	72	12.5	2	681	881
CA60	73	12.5	2	885	1772
CA60	74	12.5	2	384	768
CA60	75	12.5	2	225	450
CA60	76	12.5	2	1104	2208
CA60	77	12.5	2	203	406
CA60	78	12.5	6	224	1344
CA60	79	12.5	5	238	1190
CA60	80	12.5	6	704	4224
CA60	81	12.5	1	148	148
CA60	82	12.5	6	194	1164
CA60	83	12.5	4	239	956
CA60	84	12.5	4	730	2920
CA60	85	12.5	1	107	107
CA60	86	12.5	4	160	640
CA60	87	12.5	3	232	696
CA60	88	12.5	4	227	908
CA60	89	12.5	3	1006	3018
CA60	90	12.5	2	638	1276
CA60	91	12.5	4	1020	4080
CA60	92	16.0	1	103	103
CA60	93	16.0	1	133	133
CA60	94	16.0	2	193	386
CA60	95	16.0	2	303	606
CA60	96	16.0	2	403	806

**Resumo do aço**

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	216.2	56.6
CA50	8.0	370.9	161
CA50	10.0	667.2	406
CA50	12.5	607.1	696.3
CA50	16.0	20.4	35.3
CA60	5.0	1993.7	270.2
<b>PESO TOTAL (kg)</b>			
CA50		1364.1	
CA60		270.2	

Volume de concreto (C-40) = 8.67 m³  
Área de forma = 125.53 m²

Revisões da prancha	
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Emissão Inicial: LUIS F. 22/06/2022

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 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

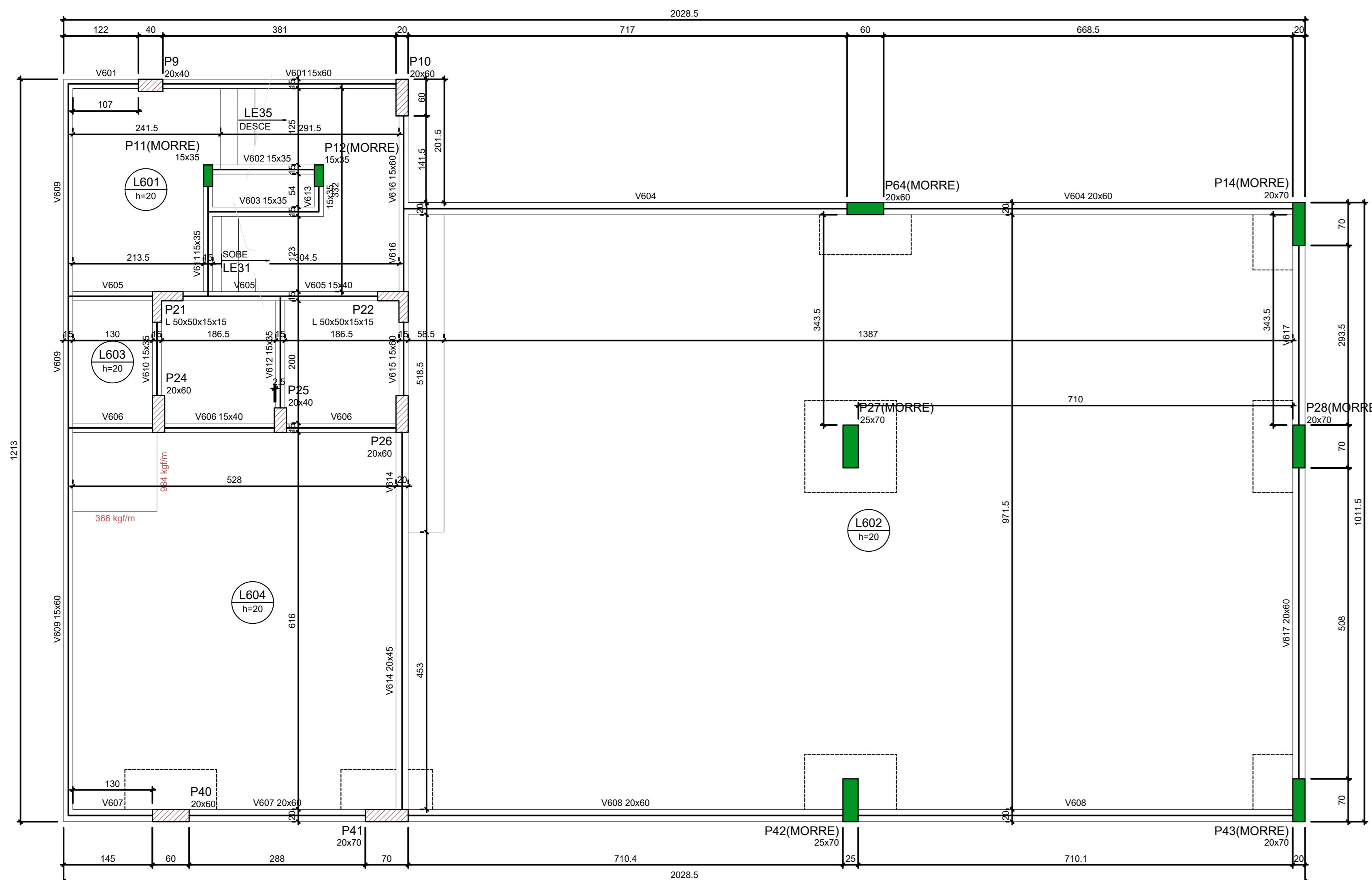
PROPRIETÁRIO: \_\_\_\_\_  
 AUTOR DO PROJETO: \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO: \_\_\_\_\_

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: Fck = 40 MPa FATOR A/C < 0.60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contêúdo: ARMAÇÃO DAS VIGAS DO PAVIMENTO 5º PAVIMENTO  
 Data: 22/06/2022 | A. Low: 2.000,00mm² | Escala: 1:50

Prancha: ESTRUTURA 3  
**65/84**







Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V001	20x40	0	1650
V002	15x35	0	1650
V003	15x35	0	1650
V004	20x60	0	1650
V005	15x40	0	1650
V006	15x40	0	1650
V007	20x60	0	1650
V008	20x60	0	1650
V009	15x60	0	1650
V010	15x35	0	1650
V011	15x35	0	1650
V012	15x35	0	1650
V013	15x35	0	1650
V014	20x45	0	1650
V015	15x60	0	1650
V016	15x60	0	1650
V017	20x60	0	1650

Lajes						
Nome	Tipo	Altura (cm)	Distribuição (cm)	Nível (cm)	Peso próprio (kg/m²)	Acabamento
L001	Maciça	30	0	1650	500	154
L002	Maciça	20	0	1650	500	182
L003	Maciça	20	0	1650	500	154
L004	Maciça	20	0	1650	500	154

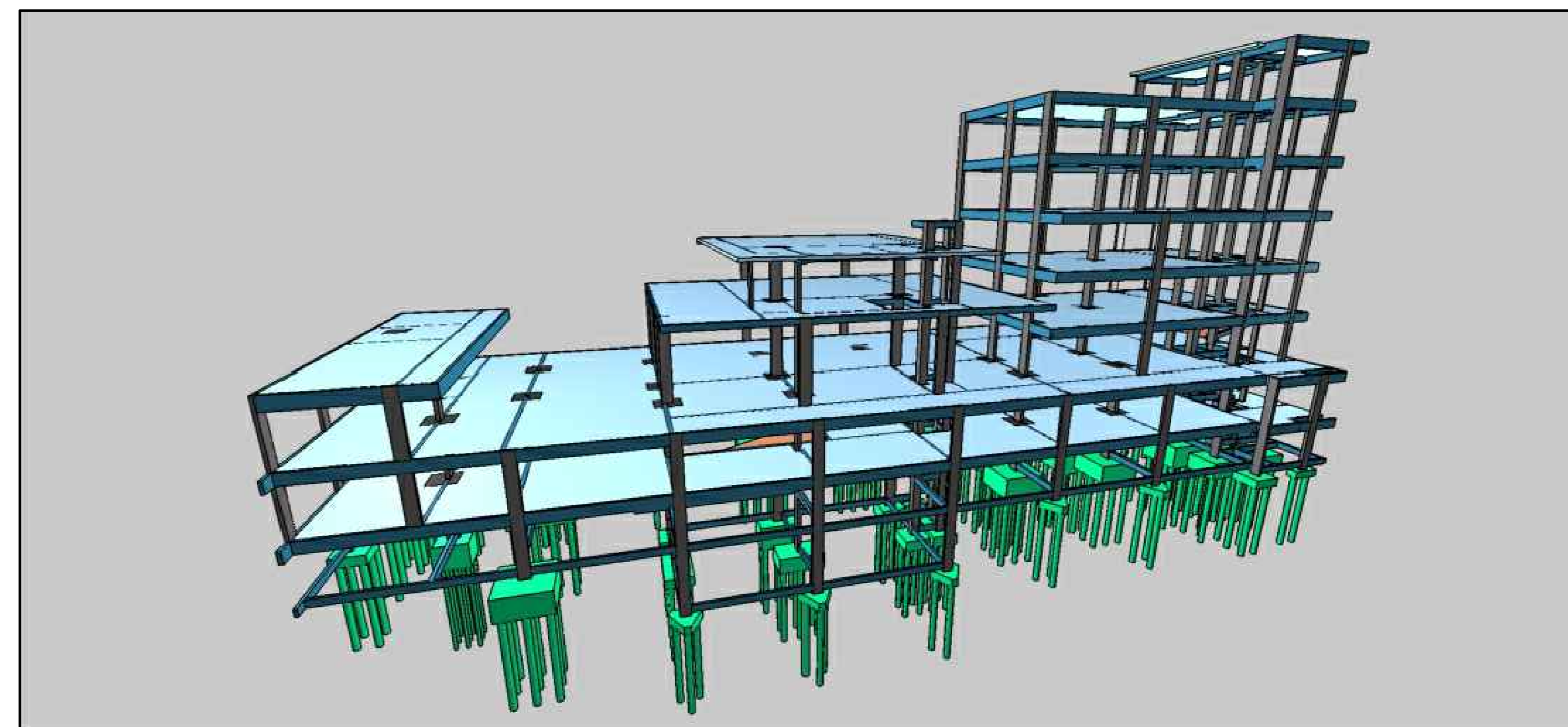
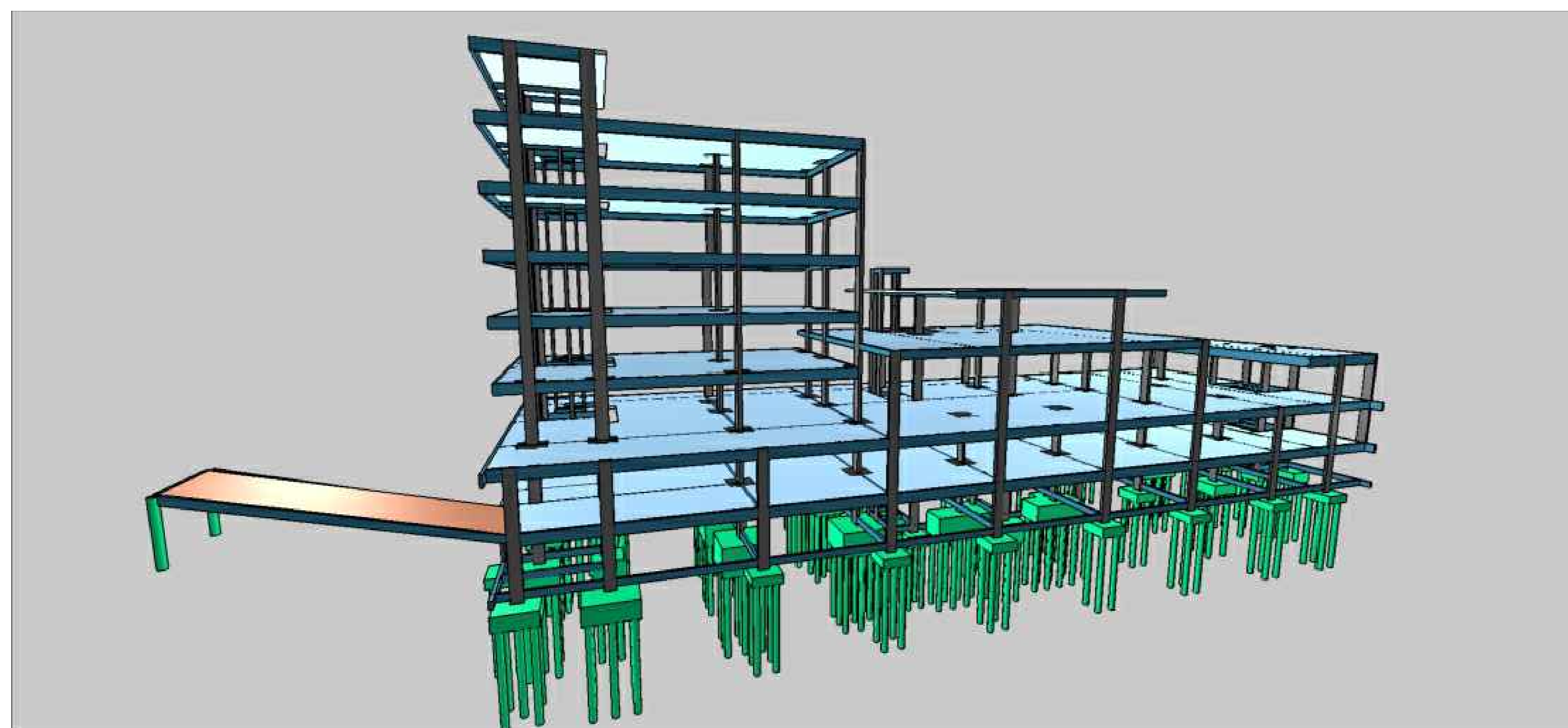
Características dos materiais	
lx	Eca
400	318/755

Placas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P01	20x40	0	1650
P10	20x60	0	1650
P11	15x35	0	1650
P12	15x35	0	1650
P14	20x70	0	1650
P21	L 50x50x15x15	0	1650
P22	L 50x50x15x15	0	1650
P24	20x60	0	1650
P25	20x60	0	1650
P26	20x60	0	1650
P27	25x70	0	1650
P28	20x70	0	1650
P40	20x60	0	1650
P41	20x70	0	1650
P42	25x70	0	1650
P43	20x70	0	1650
P44	20x60	0	1650

Legenda das placas		Legenda das vigas e paredes	
	Placa que morre		Viga
	Placa que passa		Parede

Forma do Pavimento Cobertura (Nível 1650)

escala 1/50



Revisões da prancha	
-	
-	
-	
-	
-	

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 RESP. TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO CREA: 21.401/D-DF

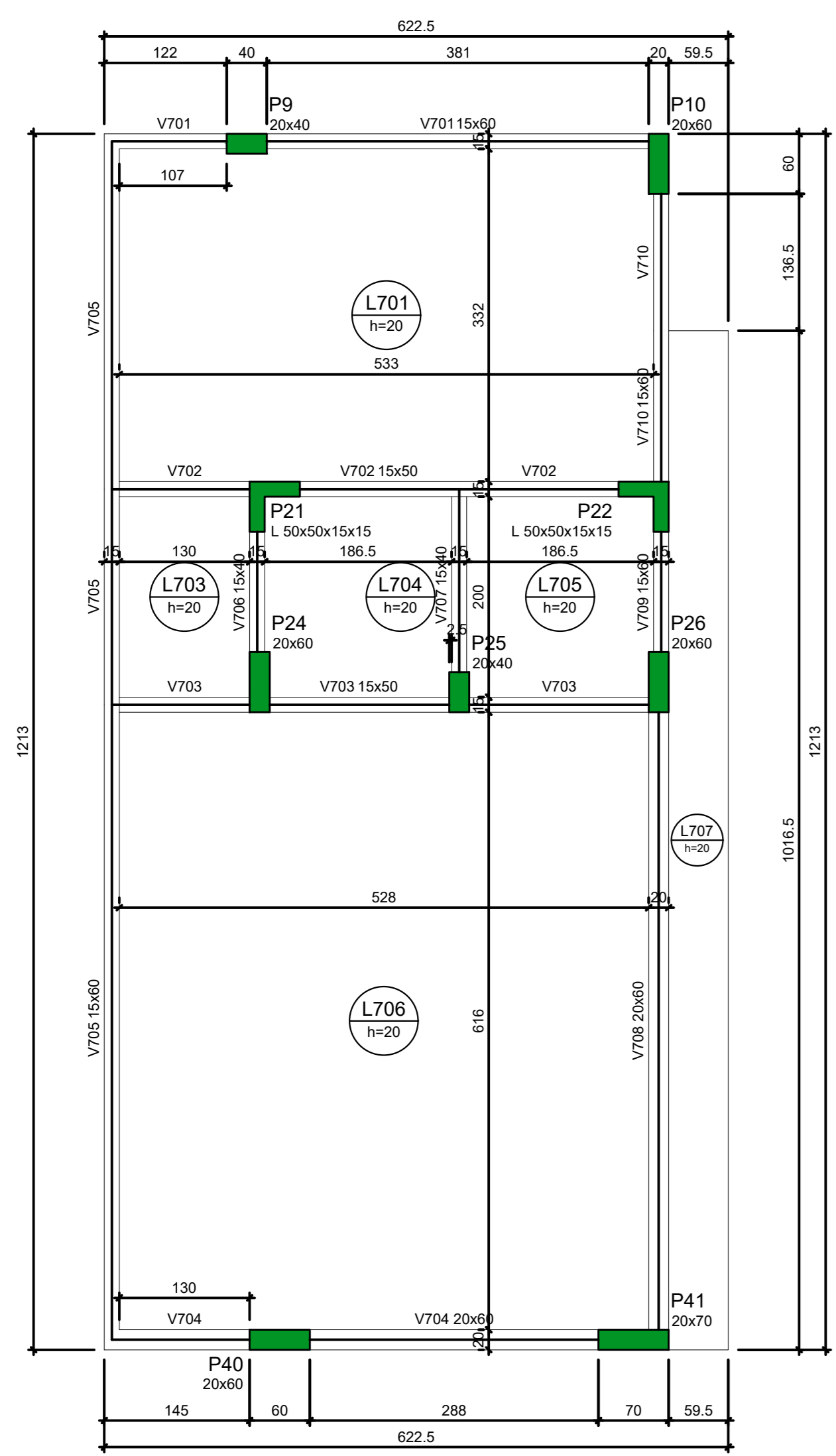
RESP. TÉCNICO











Nome	Seção	Elevação (cm)	Nível (cm)
V701	20x40	0	1980
V702	15x40	0	1980
V703	15x40	0	1980
V704	20x60	0	1980
V705	15x40	0	1980
V706	15x40	0	1980
V707	15x40	0	1980
V708	20x60	0	1980
V709	15x40	0	1980
V710	15x60	0	1980

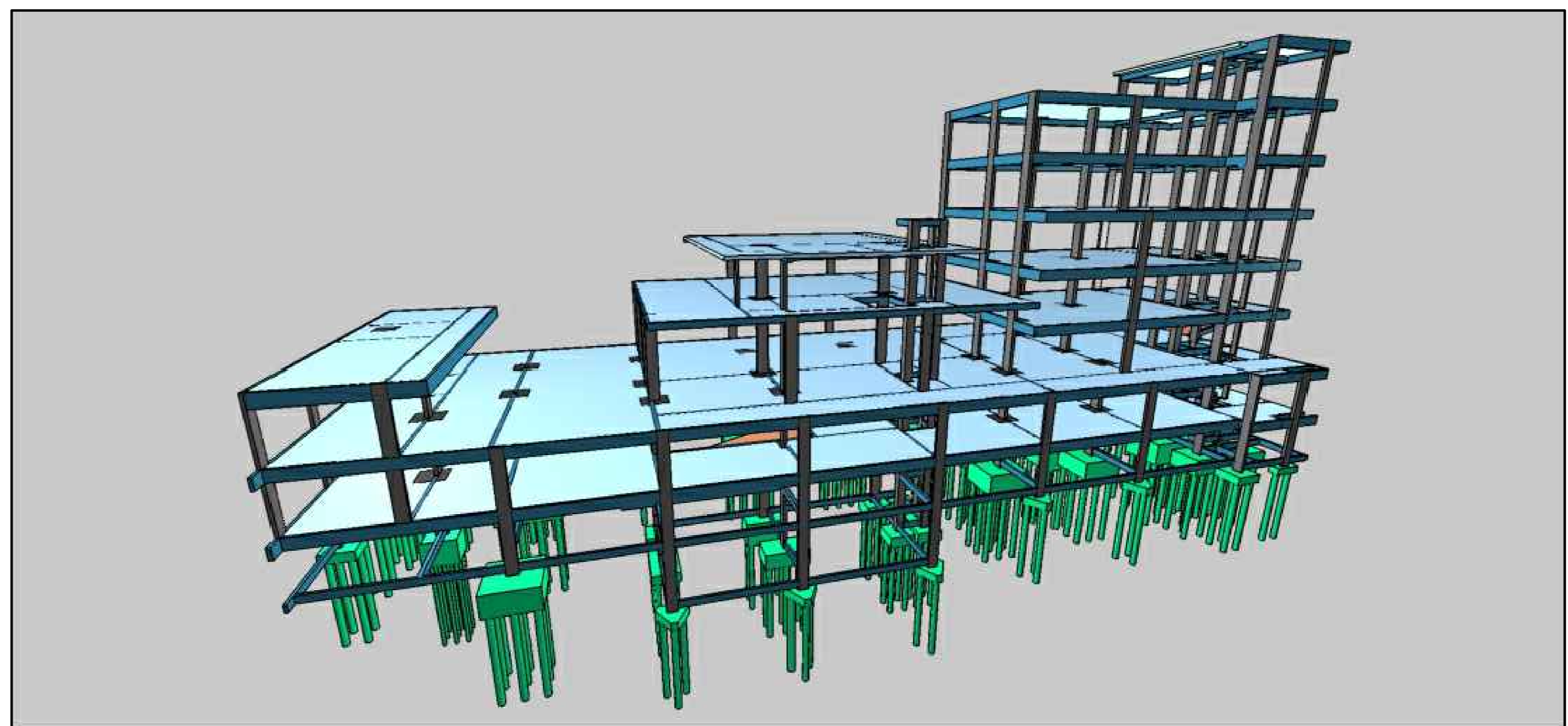
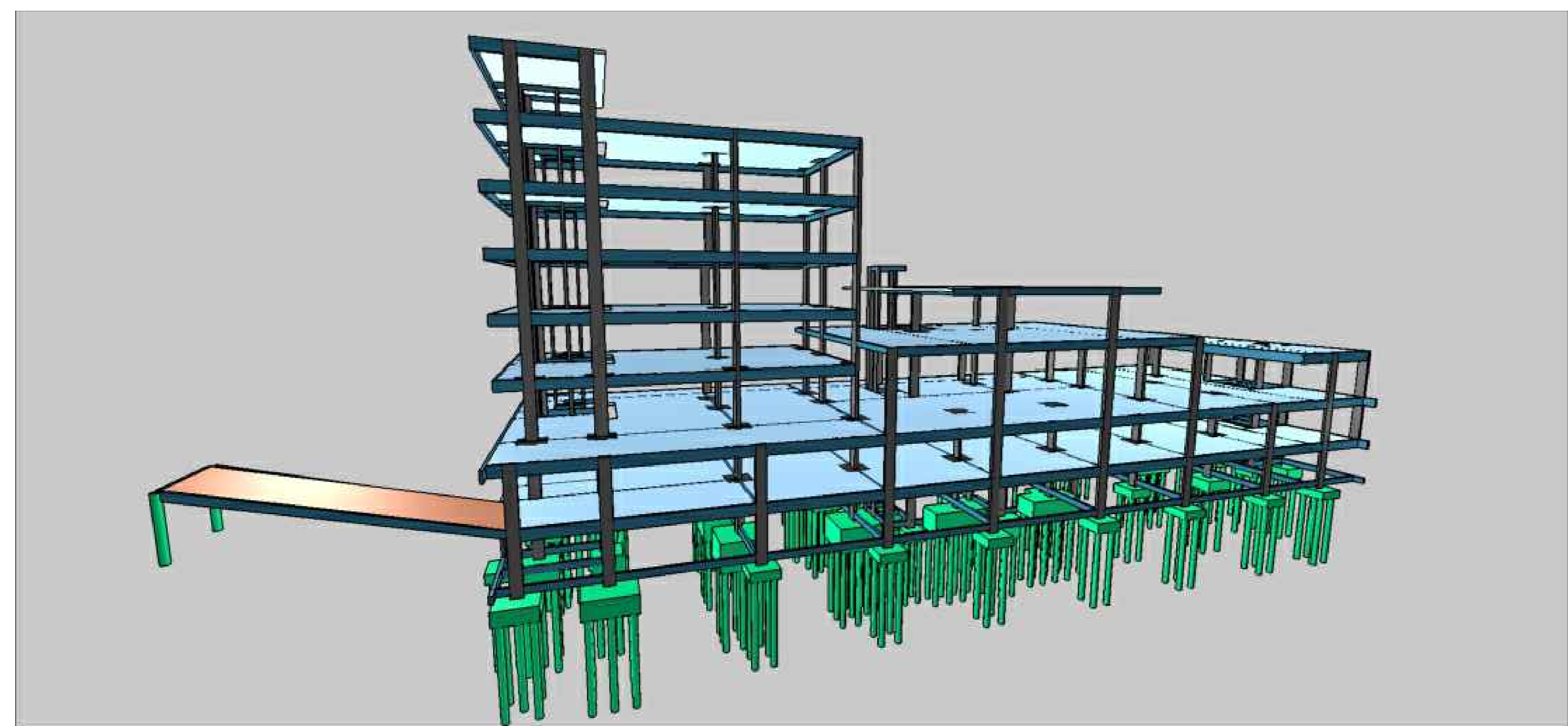
Nome	Tipo	Alura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kg/m²)	Sobrecargas (kg/m²)		
						Adicional	Acidentia	Localizada
L701	Maciça	20	0	1980	500	182	150	-
L703	Maciça	20	0	1980	500	182	150	-
L704	Maciça	20	0	1980	500	182	150	-
L705	Maciça	20	0	1980	500	182	150	-
L706	Maciça	20	0	1980	500	182	150	-
L707	Maciça	20	0	1980	500	182	150	-

Características das madeiras		
Elemento	Esp.	Ecs
Vigas		
	400	3/8758
Dimensão máxima do agregado = 19 mm		

Nome	Seção	Elevação	Nível
P9	20x40	0	1980
P10	20x40	0	1980
P21	L 50x50x15x15	0	1980
P22	L 50x50x15x15	0	1980
P24	20x60	0	1980
P25	20x40	0	1980
P26	20x60	0	1980
P40	20x60	0	1980
P41	20x70	0	1980

Legenda dos pilares		Legenda das vigas e paredes	
	Pilar que more		Viga

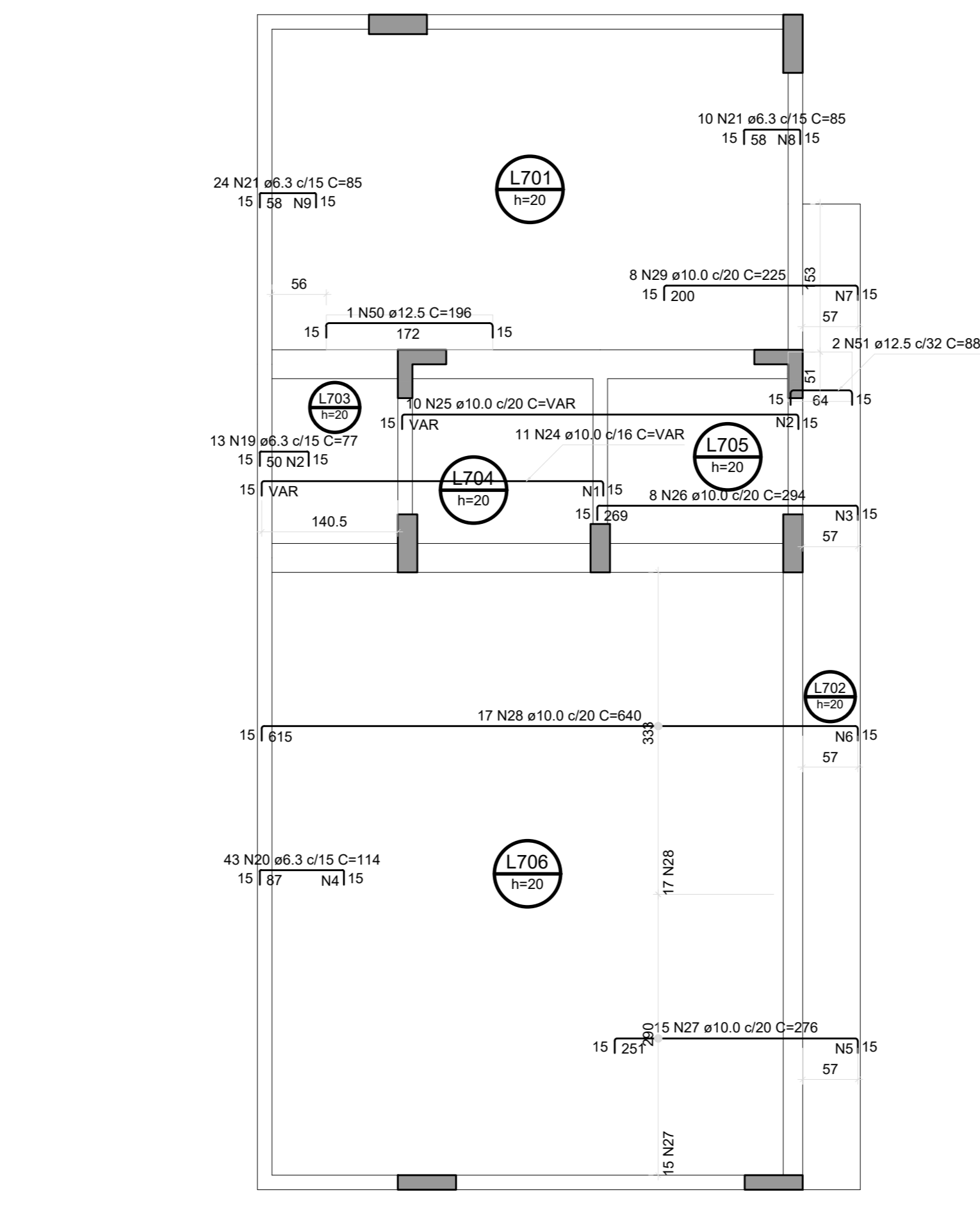
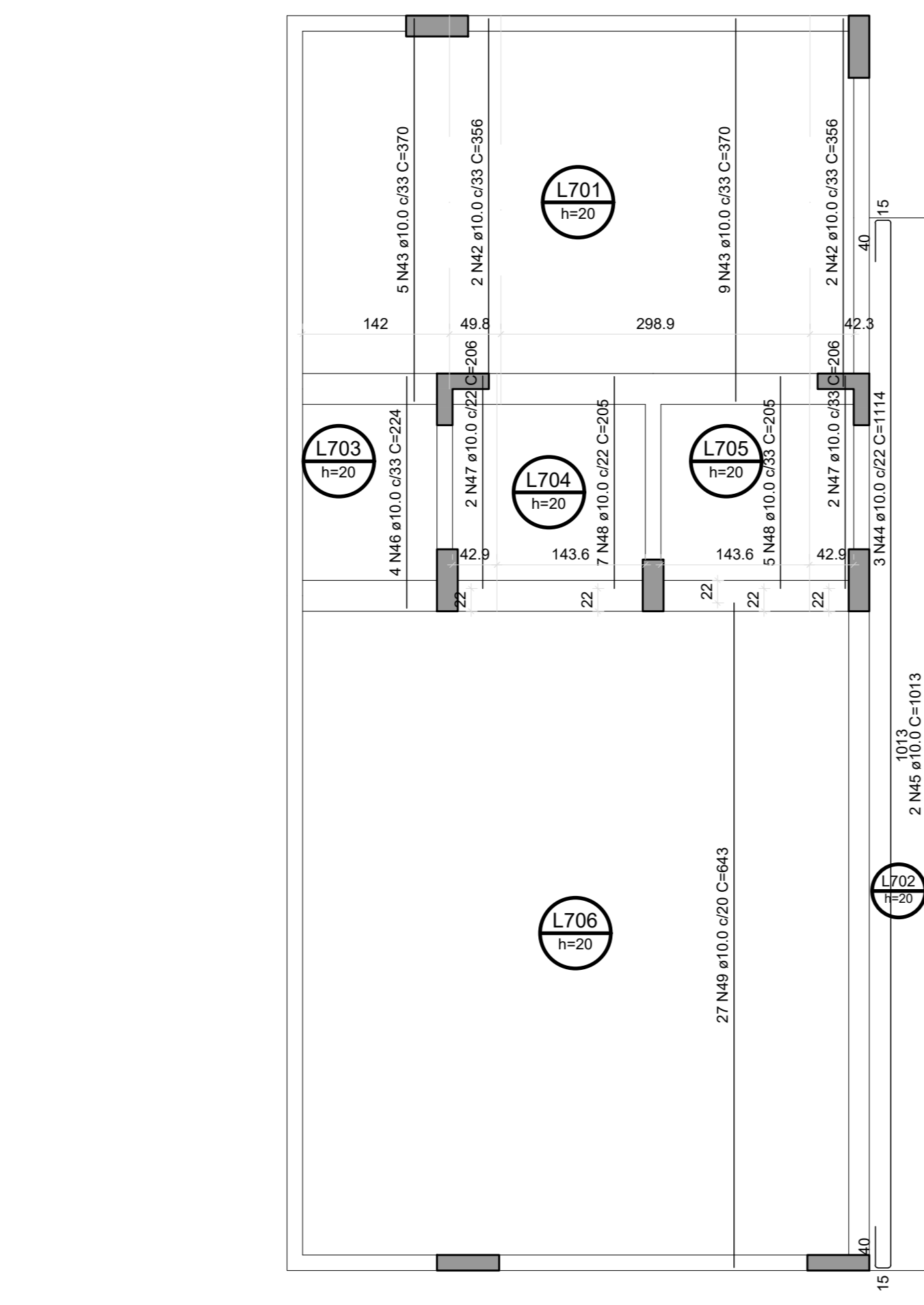
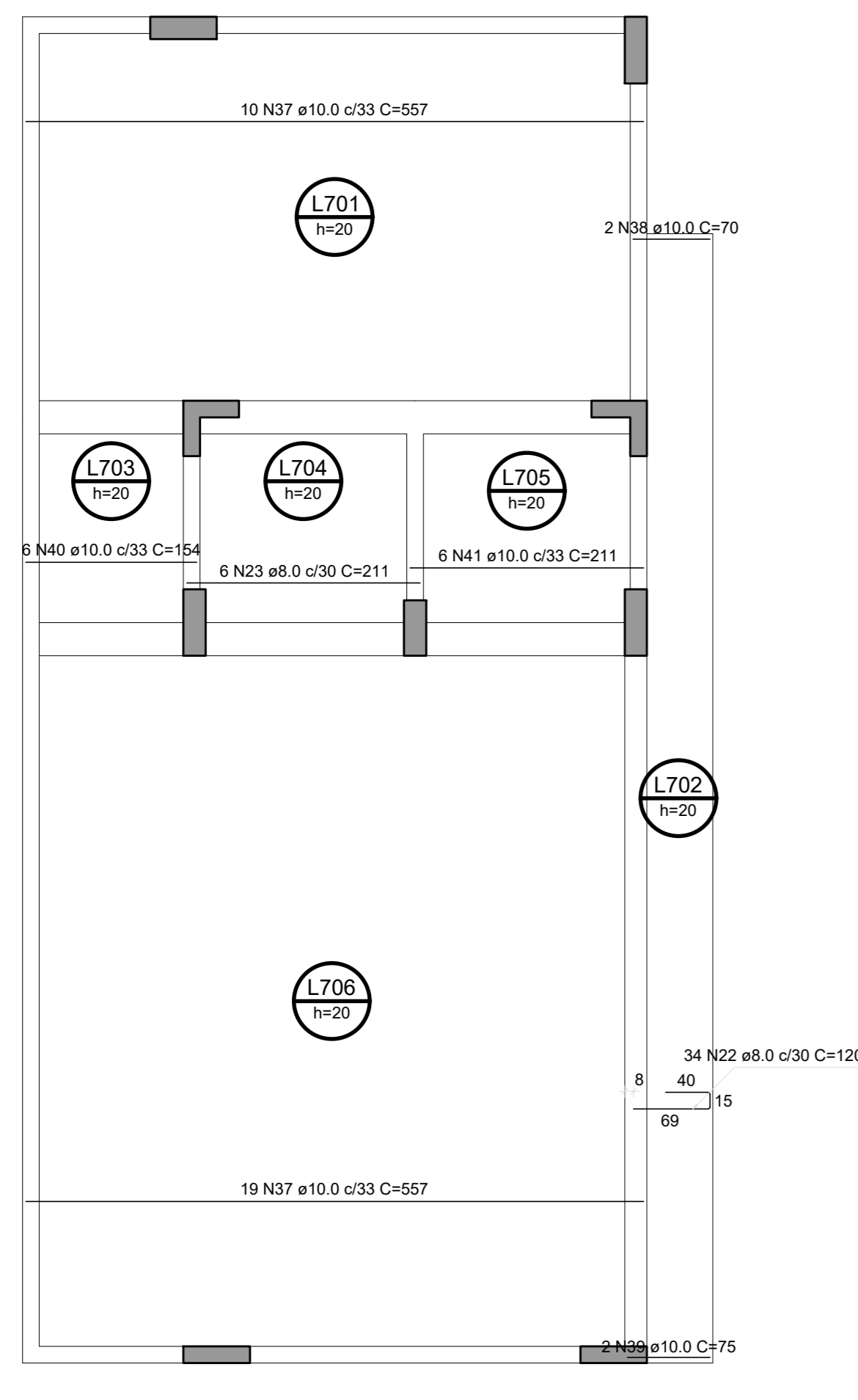
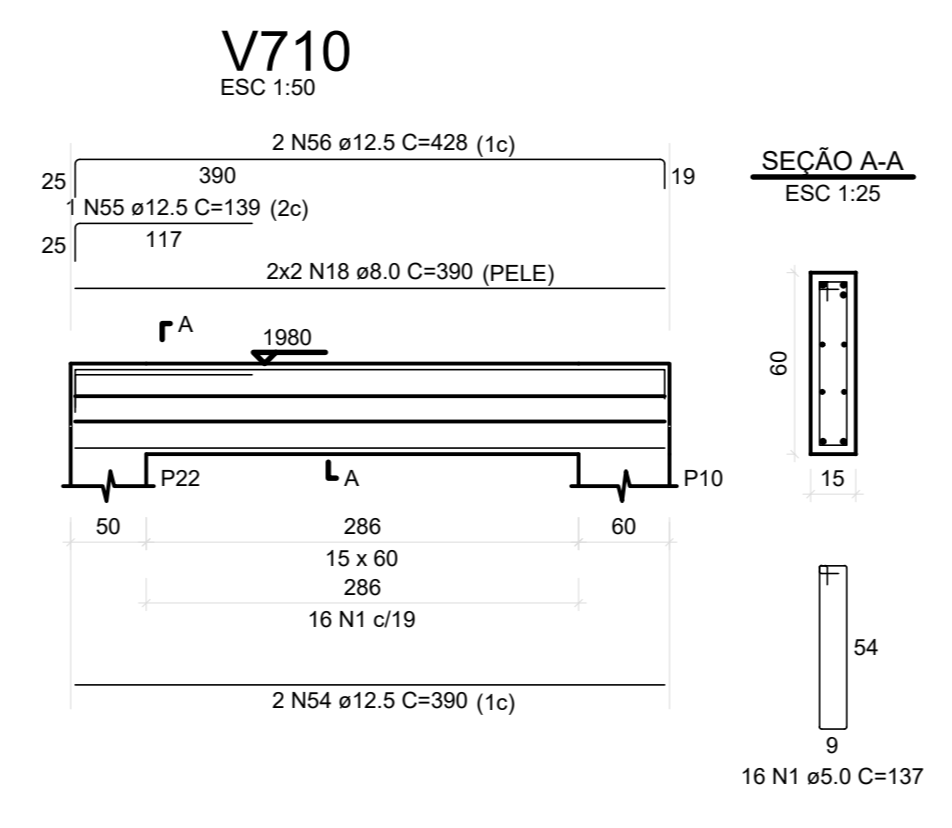
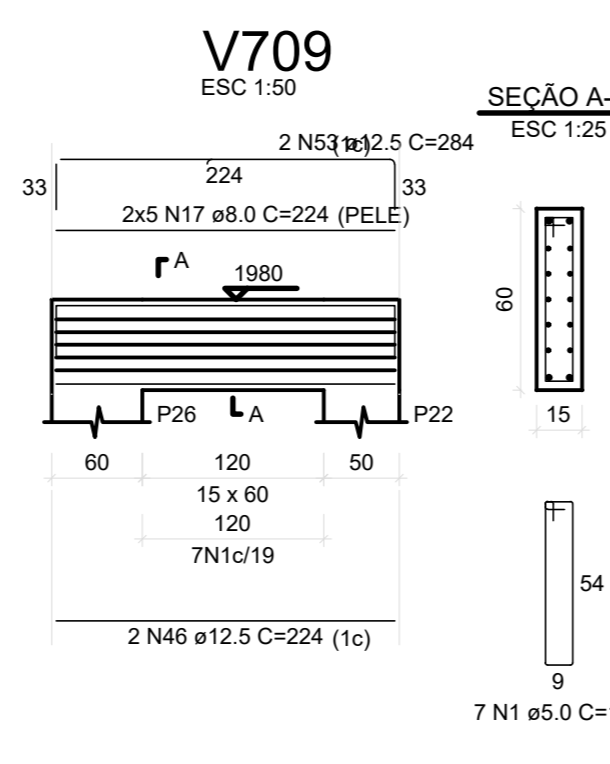
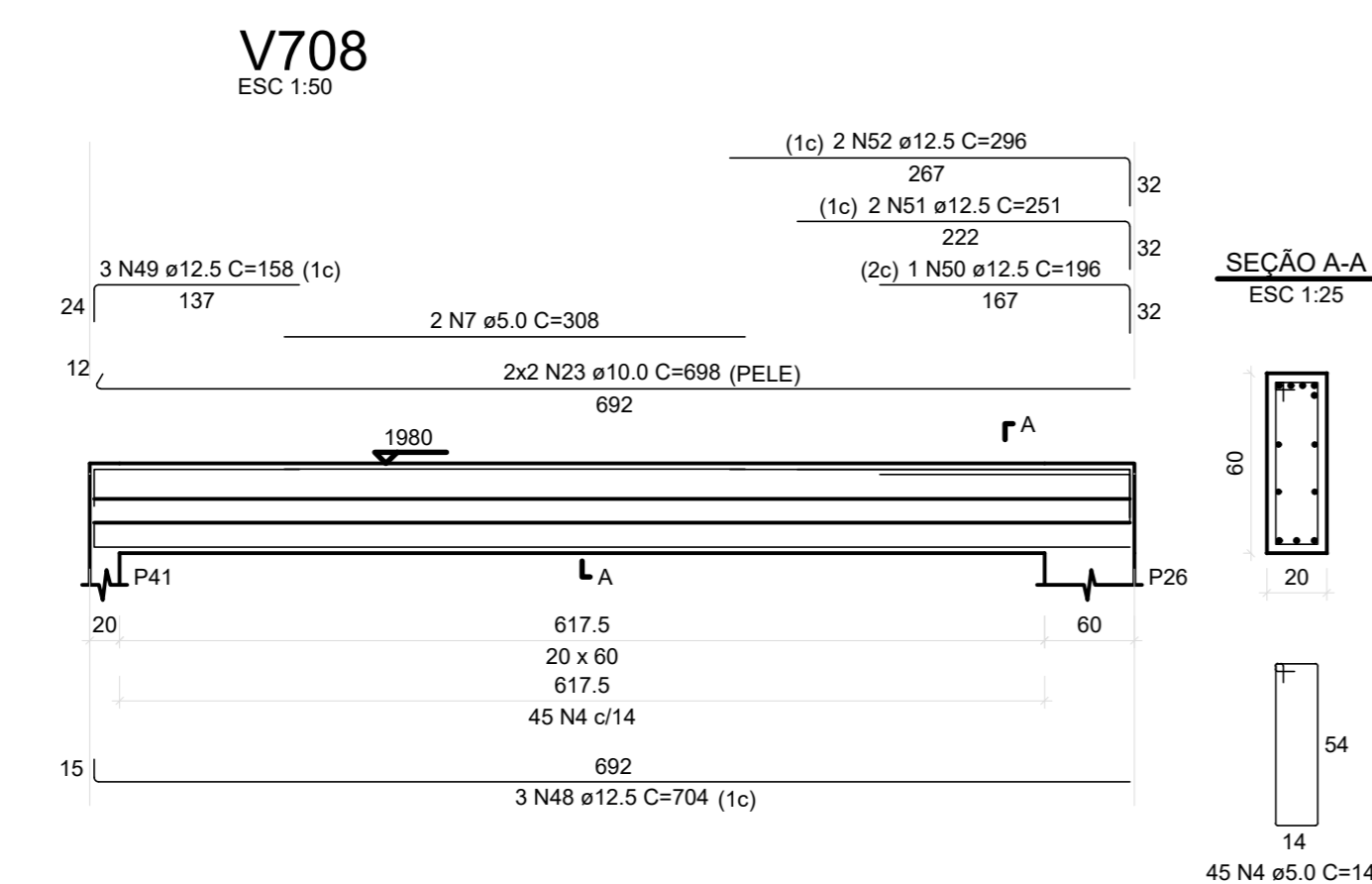
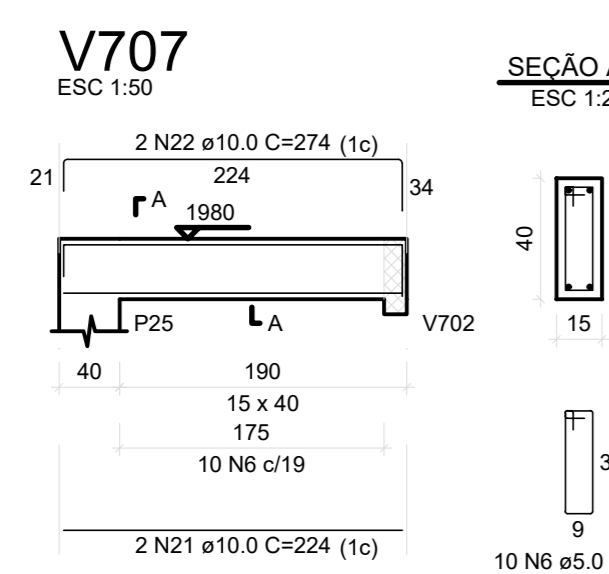
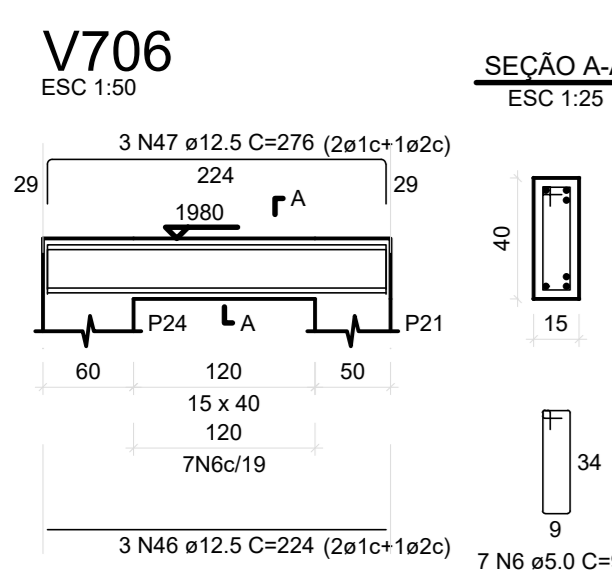
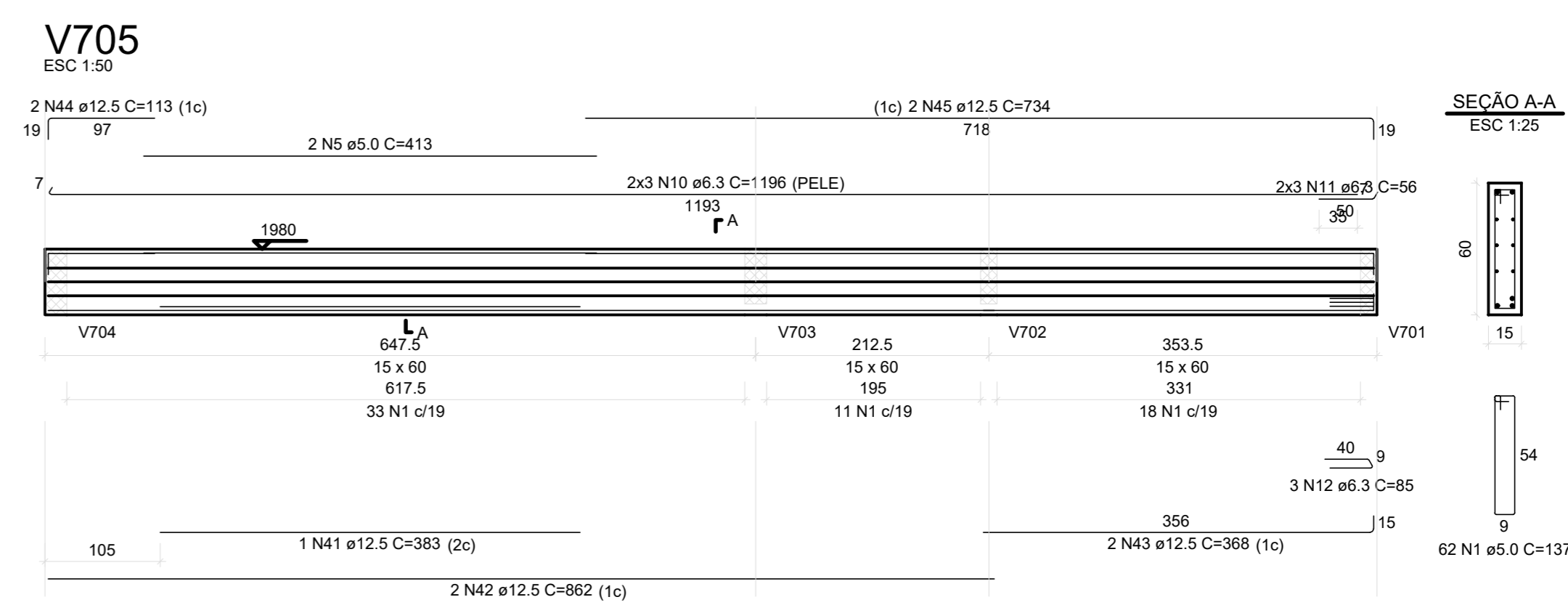
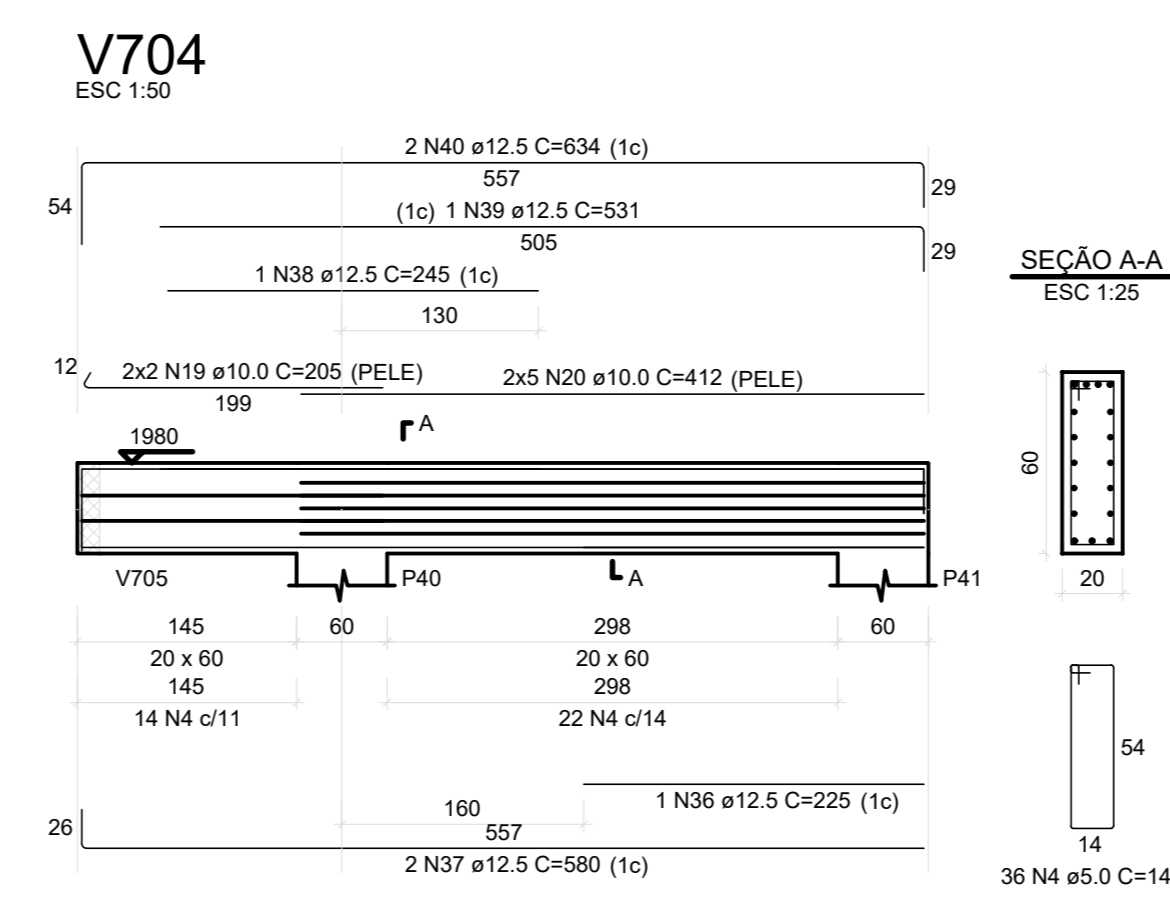
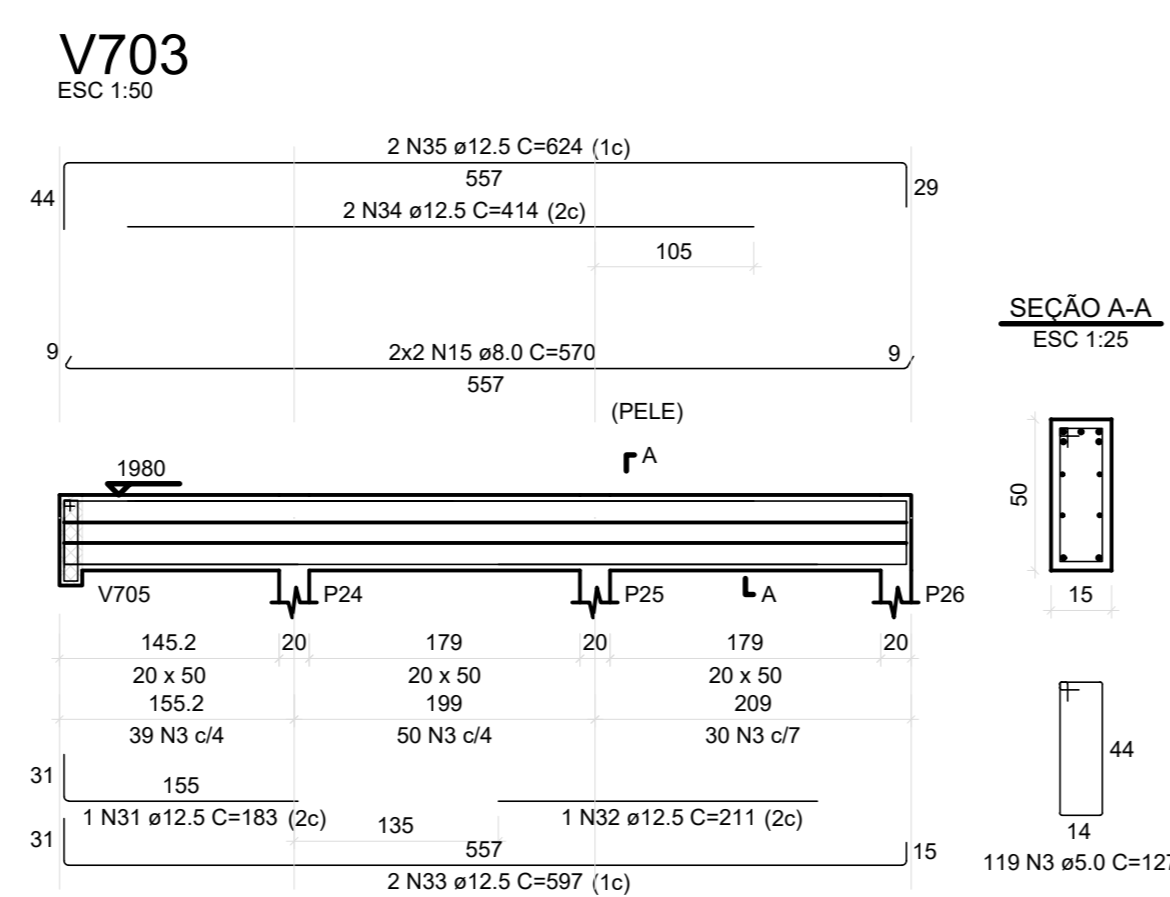
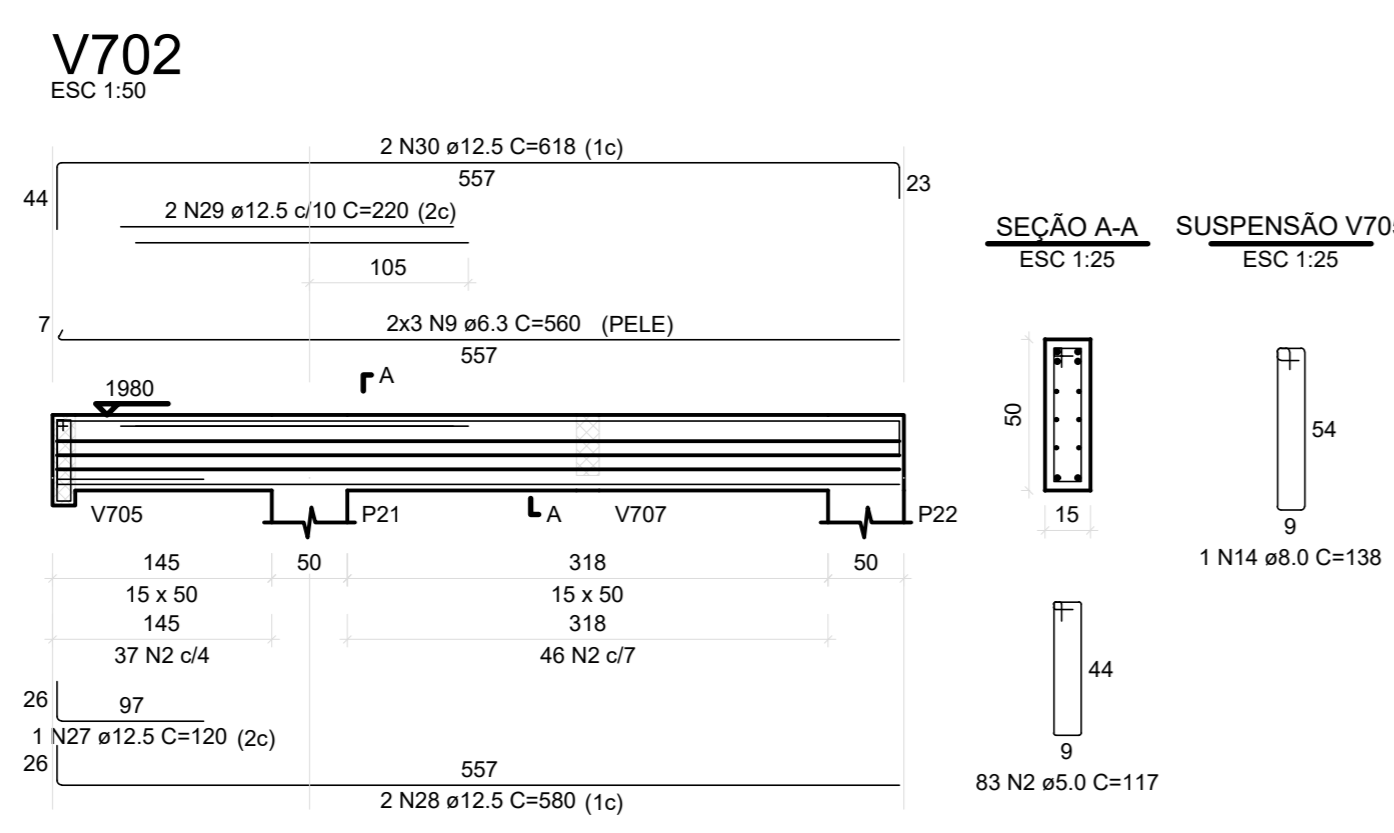
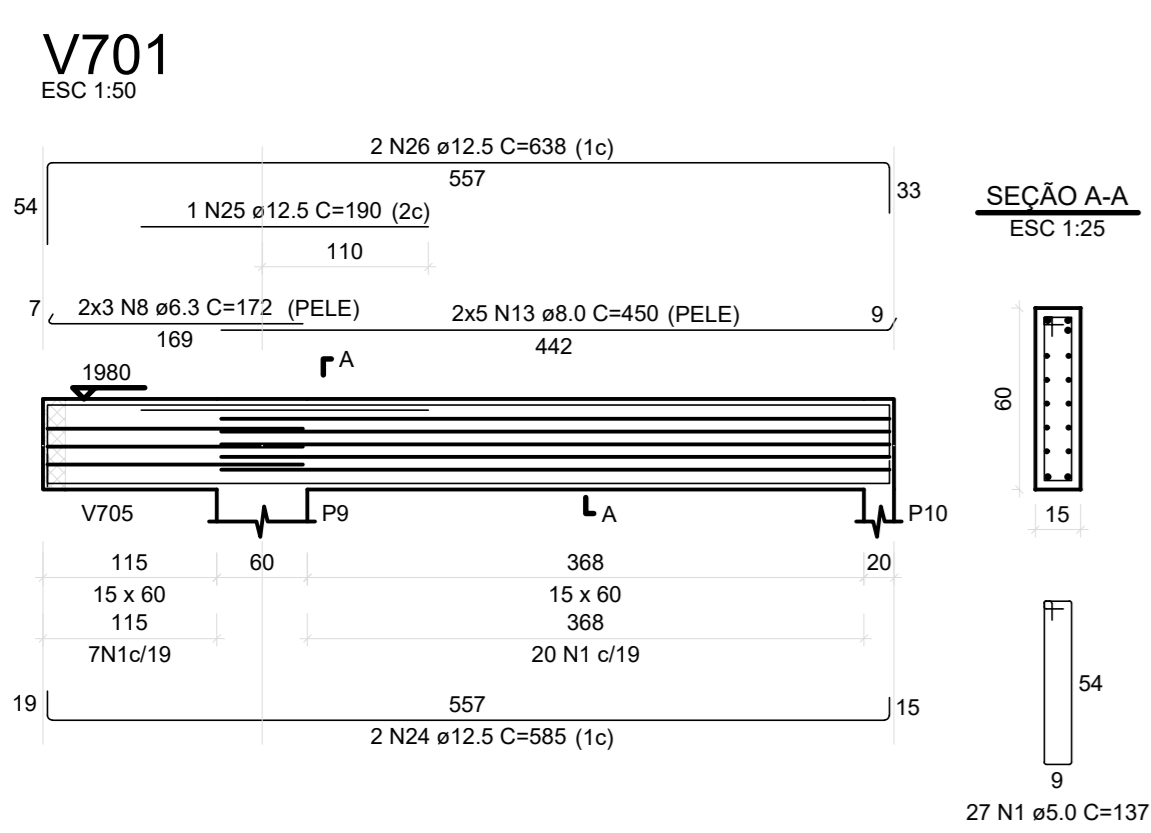
Forma do Pavimento Fundo Reservatório (Nível 1980) escala 1:50



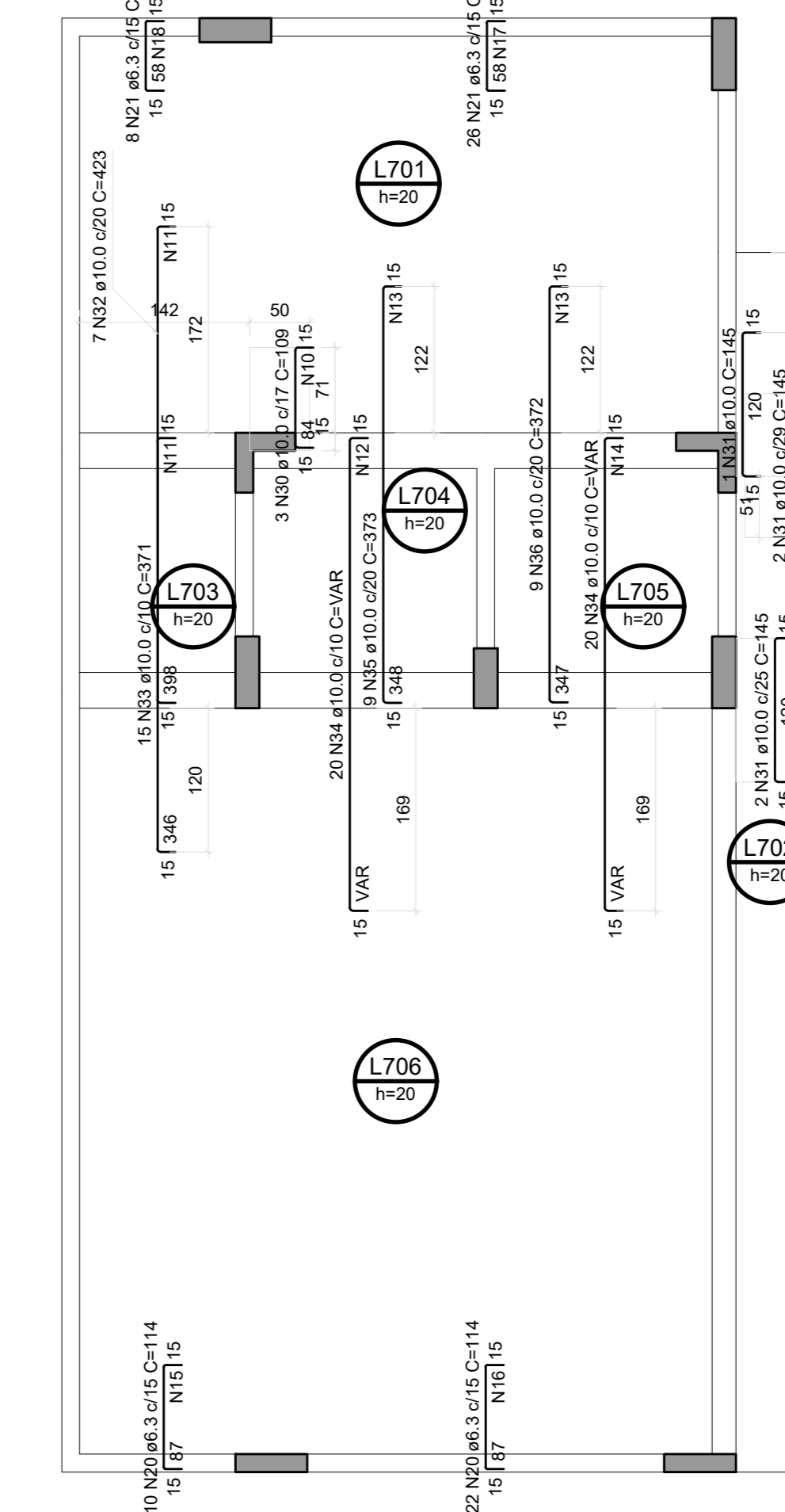
Revisões da prancha	
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Emissão Inicial	LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_



Armadura	Armadura de distribuição
N24	28 N1 ø5.0 ç13 C=VAR
N19	4 N2 ø5.0 ç13 C=290
N25	32 N2 ø5.0 ç13 C=VAR
N35	21 N2 ø5.0 ç13 C=156
N20	7 N4 ø5.0 ç13 C=645
N27	20 N5 ø5.0 ç13 C=287
N28	48 N6 ø5.0 ç13 C=348
N29	16 N7 ø5.0 ç13 C=189
N21	5 N8 ø5.0 ç13 C=154
N21	5 N9 ø5.0 ç13 C=354



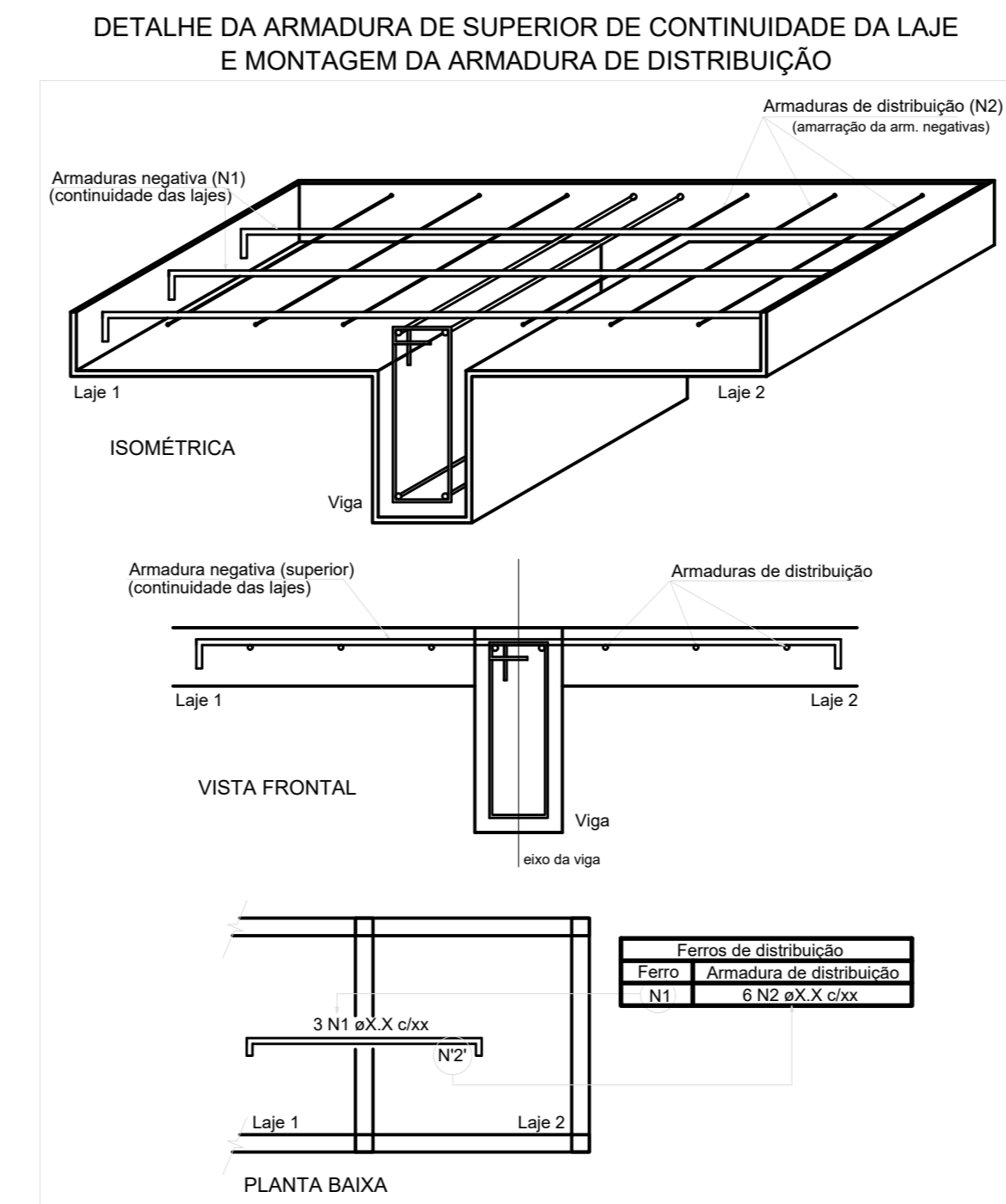
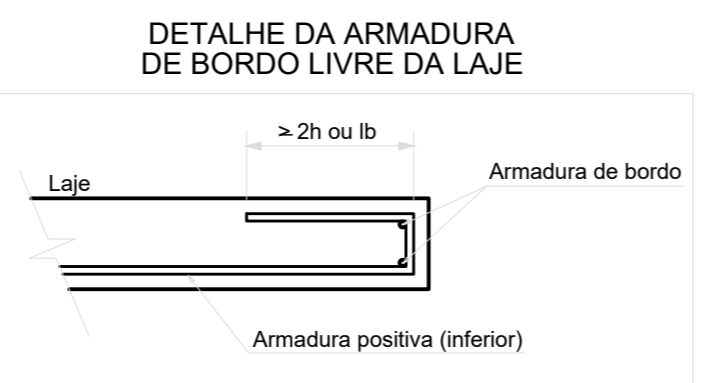
Armadura	Armadura de distribuição
N30	7 N10 ø5.0 ç13 C=50
N32	31 N11 ø5.0 ç13 C=145
N33	29 N11 ø5.0 ç12 C=145
N34	33 N12 ø5.0 ç12 C=VAR
N35	27 N13 ø5.0 ç13 C=171
N36	27 N13 ø5.0 ç13 C=171
N34	33 N14 ø5.0 ç12 C=VAR
N30	7 N15 ø5.0 ç13 C=156
N20	7 N16 ø5.0 ç13 C=334
N21	5 N17 ø5.0 ç13 C=396
N21	5 N18 ø5.0 ç13 C=136

Armação Positiva das Lajes do Pavimento Fundo Reservatório (Eixo X)

Armação Positiva das Lajes do Pavimento Fundo Reservatório (Eixo Y)

Armação Negativa das Lajes do Pavimento Fundo Reservatório (Eixo X)

Armação Negativa das Lajes do Pavimento Fundo Reservatório (Eixo Y)



Revisões da prancha	
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Emissão Inicial	LUIS F.	22/06/2022
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SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

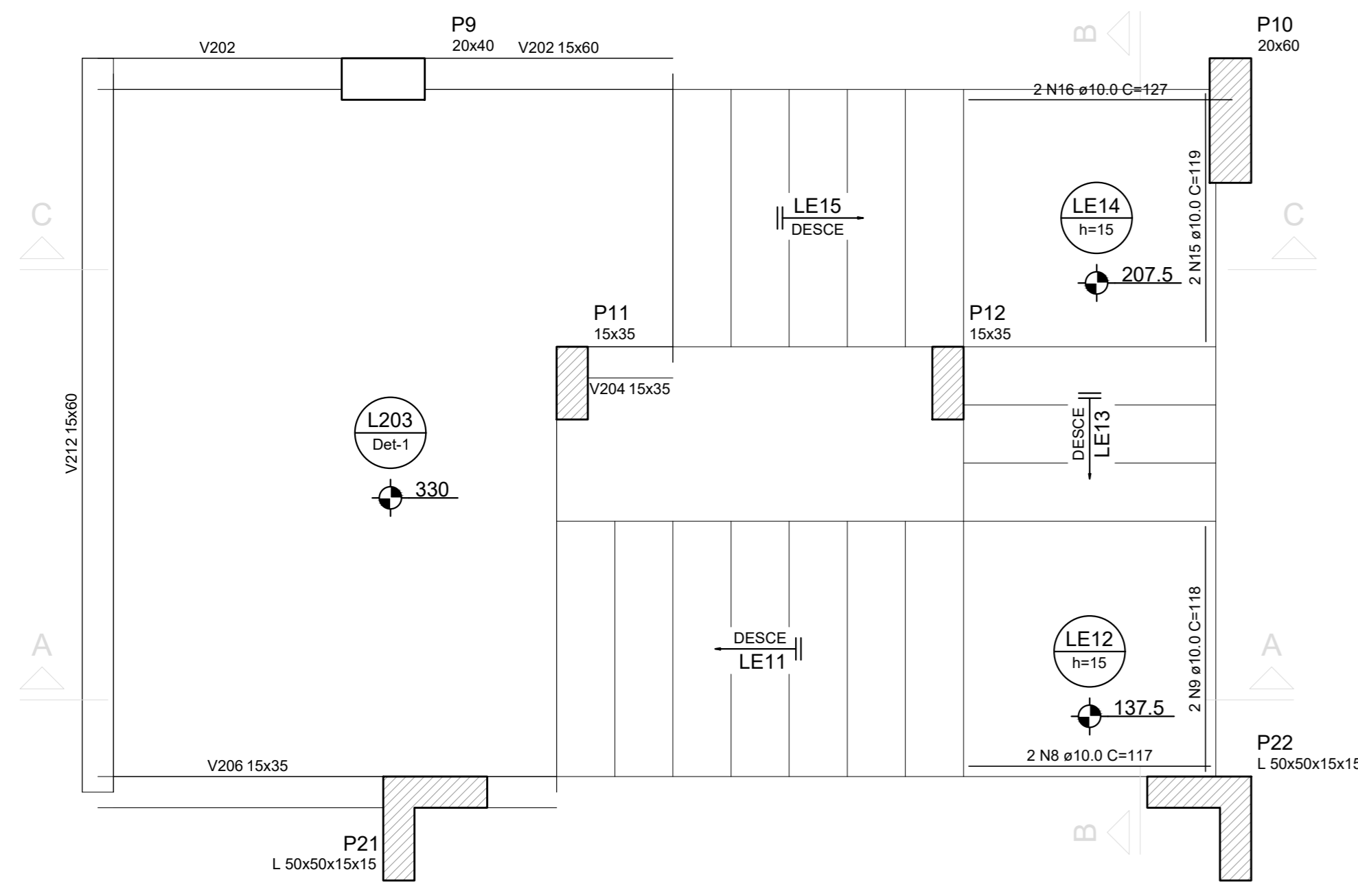
PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: F<sub>ck</sub> = 40 MPa FATOR A/C < 0,60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contido: ARMAÇÃO DAS VIGAS E LAJES DO PAVIMENTO FUNDO DO RESERVATÓRIO  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1:50

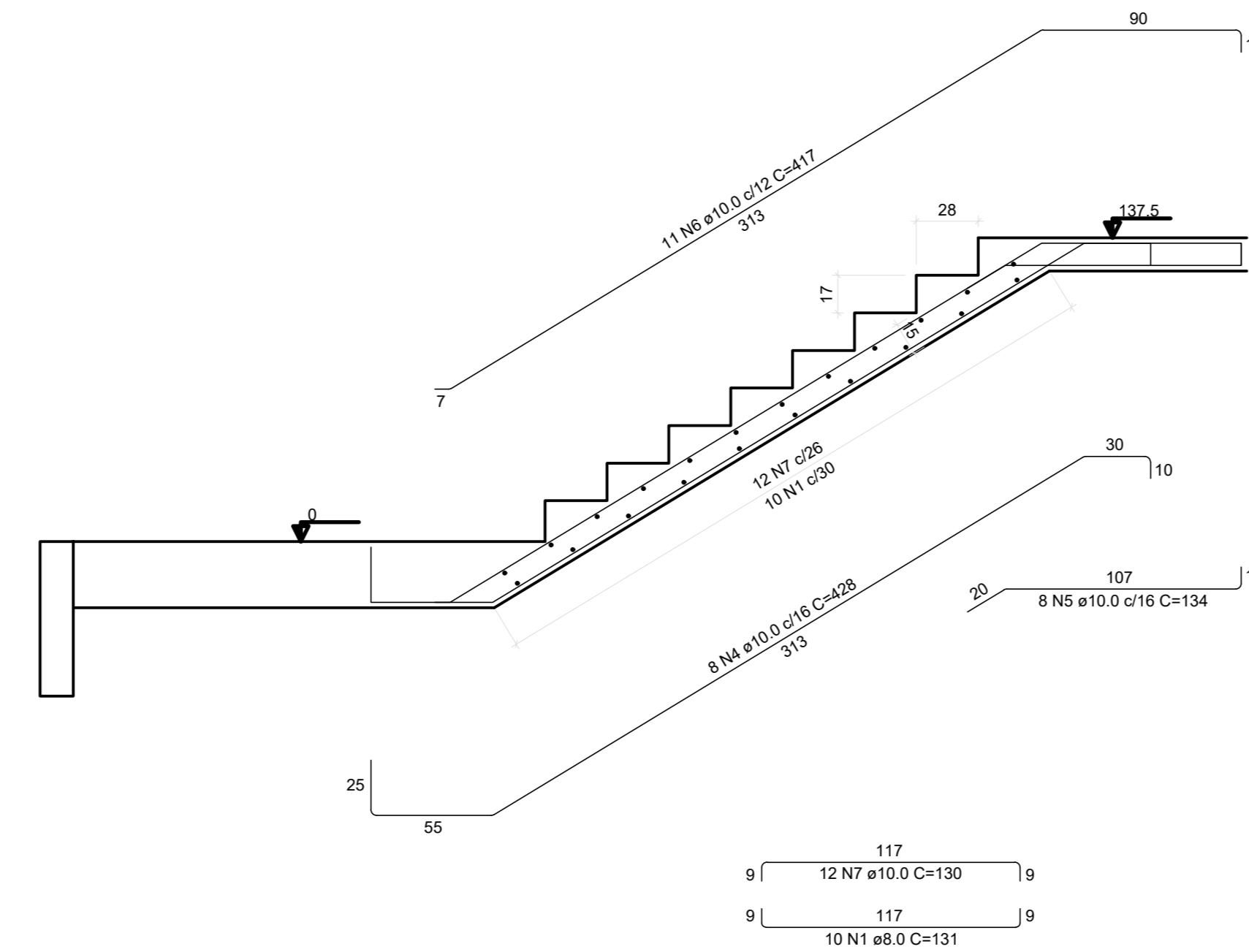
Prancha: ESTRUTURA 5

**73/84**

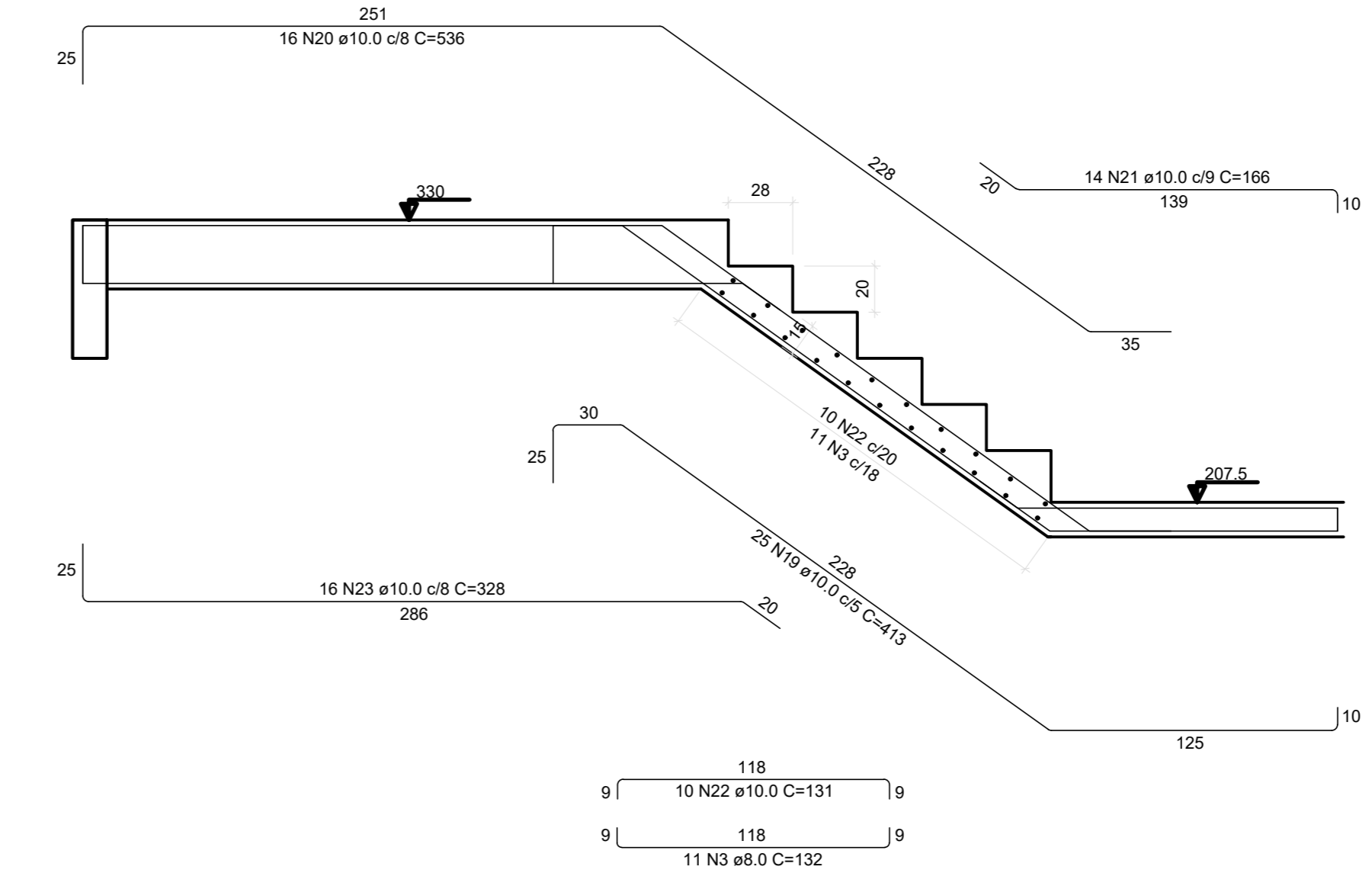




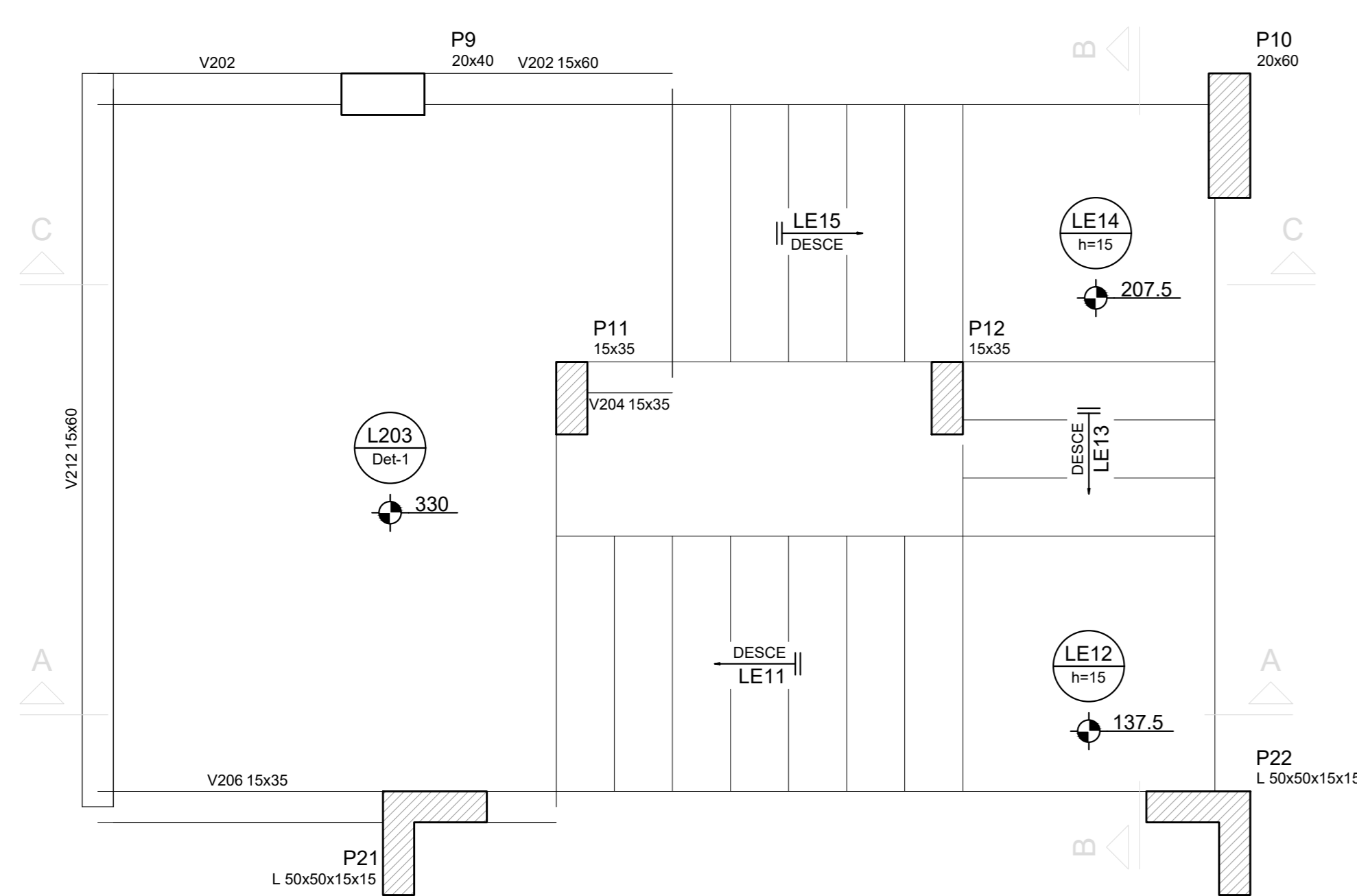
Armação Positiva da Escada E1  
ESC 1:25



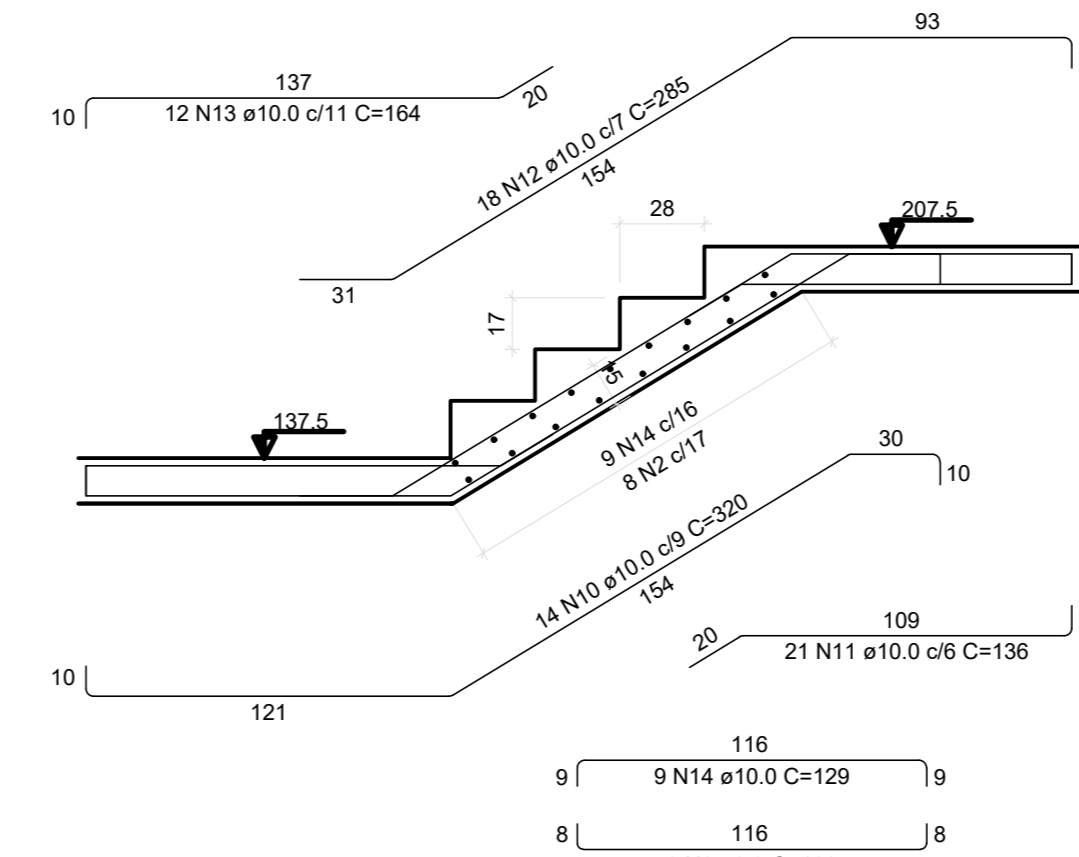
Corte A-A (LE11)  
ESC 1:25



Corte C-C (LE15)  
ESC 1:25

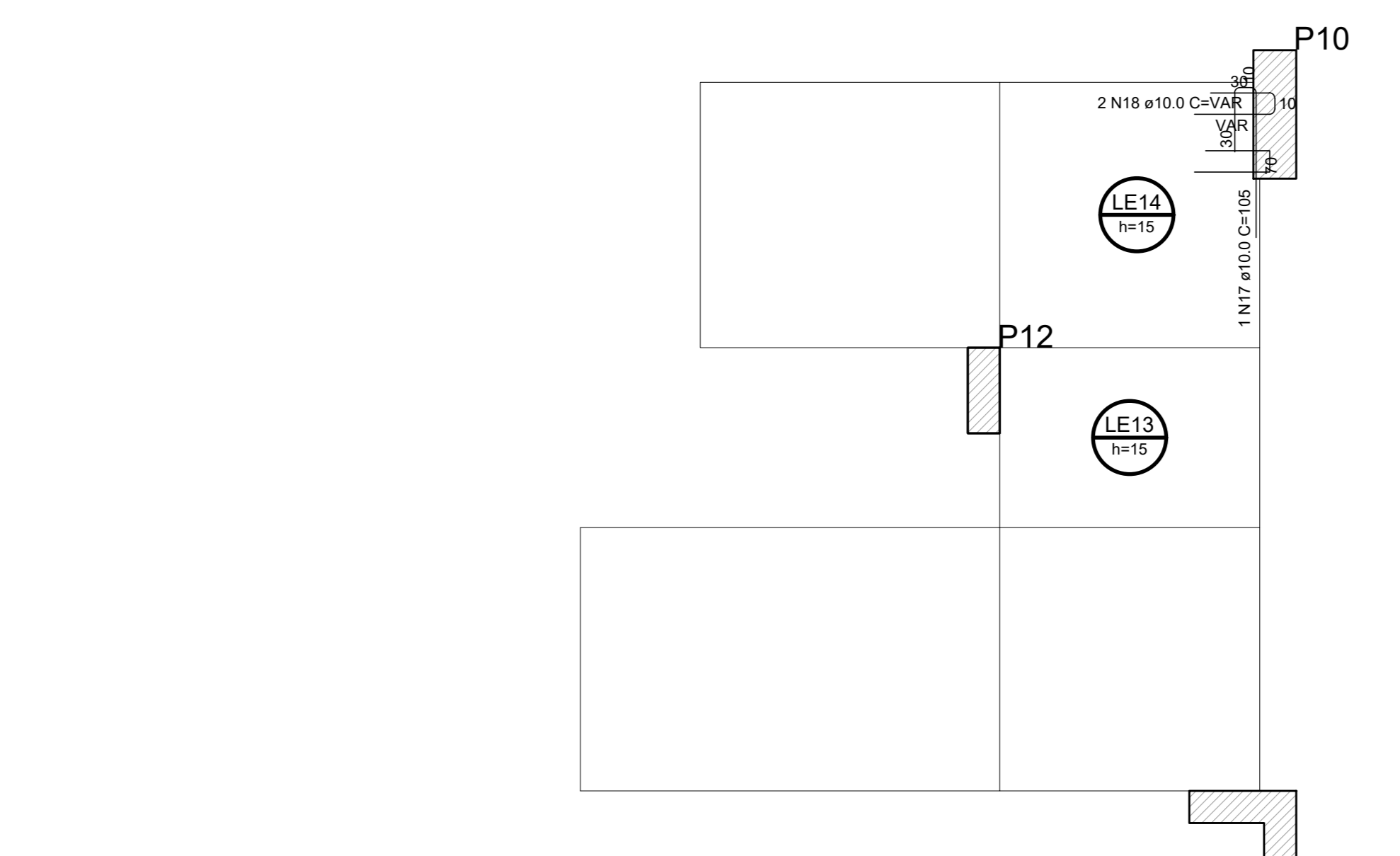
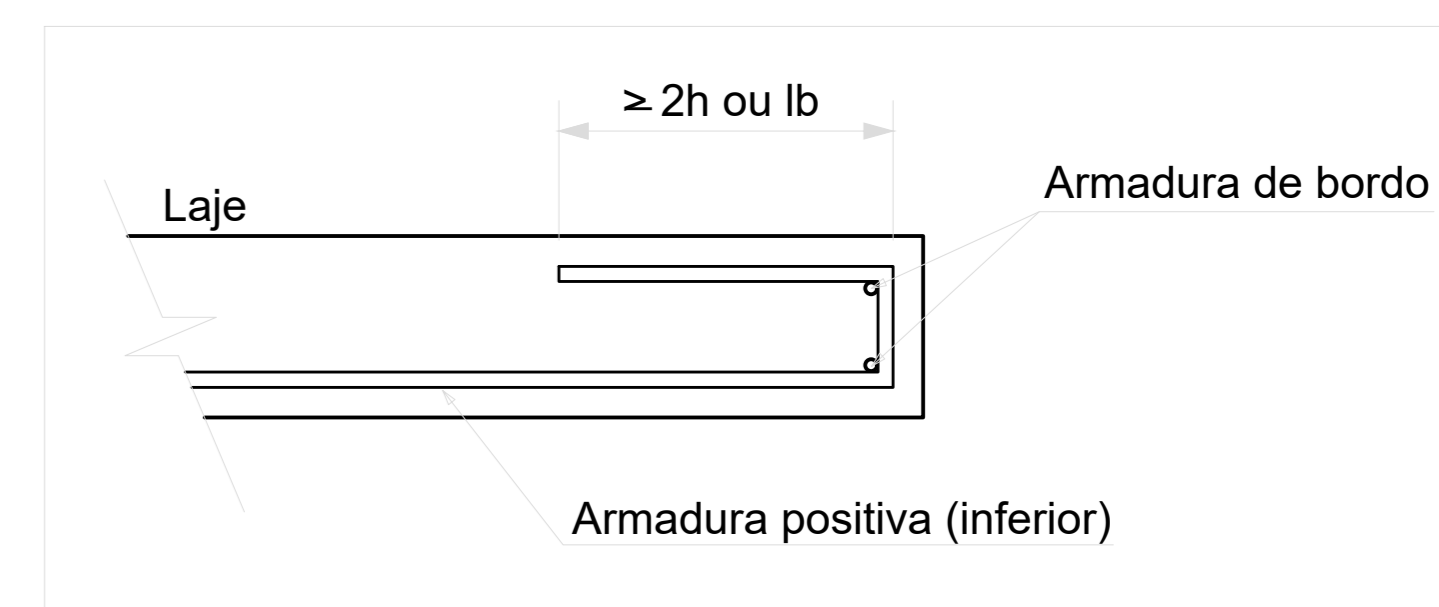


Armação Negativa da Escada E1  
ESC 1:25

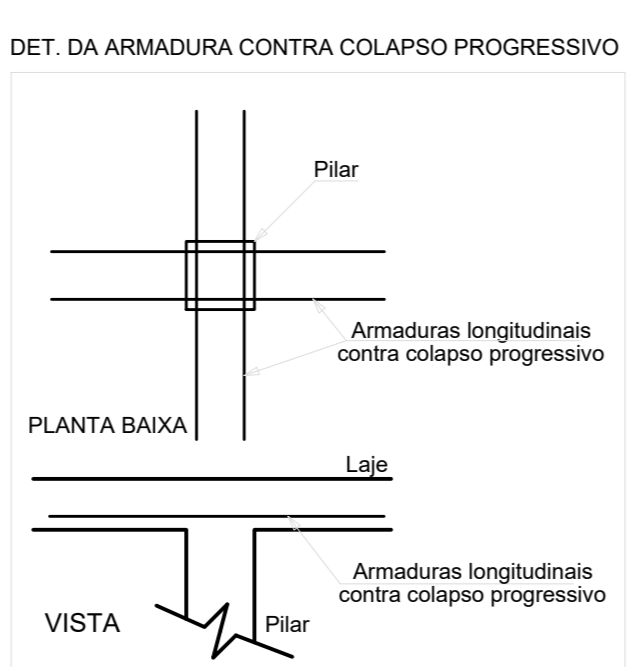


Corte B-B (LE13)  
ESC 1:25

DETALHE DA ARMADURA DE BORDO LIVRE DA LAJE

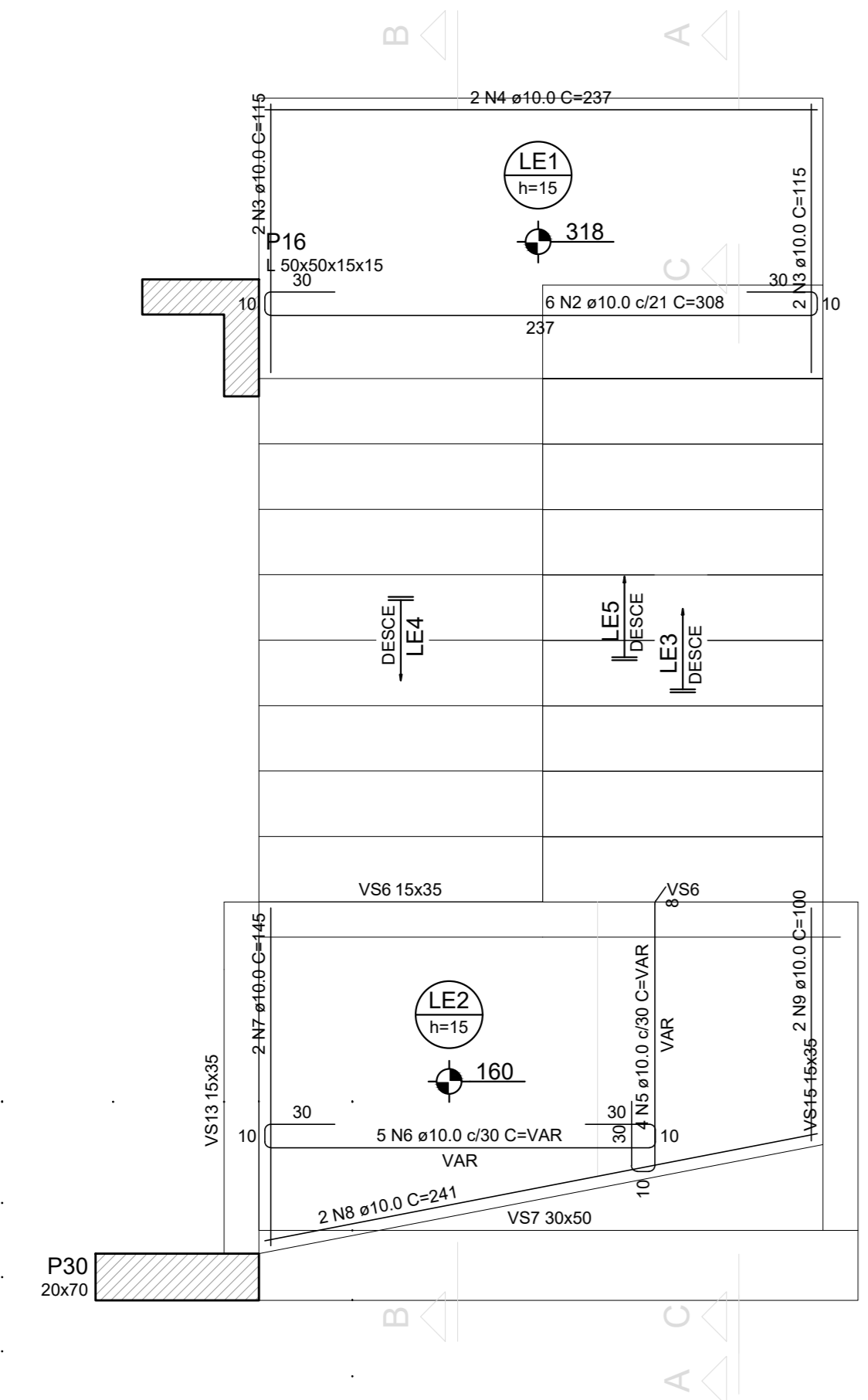


Detalhamento de Punção e Cisalhamento das Lajes do Pavimento 2º Pav. (Nível 207.5)  
escala 1:25

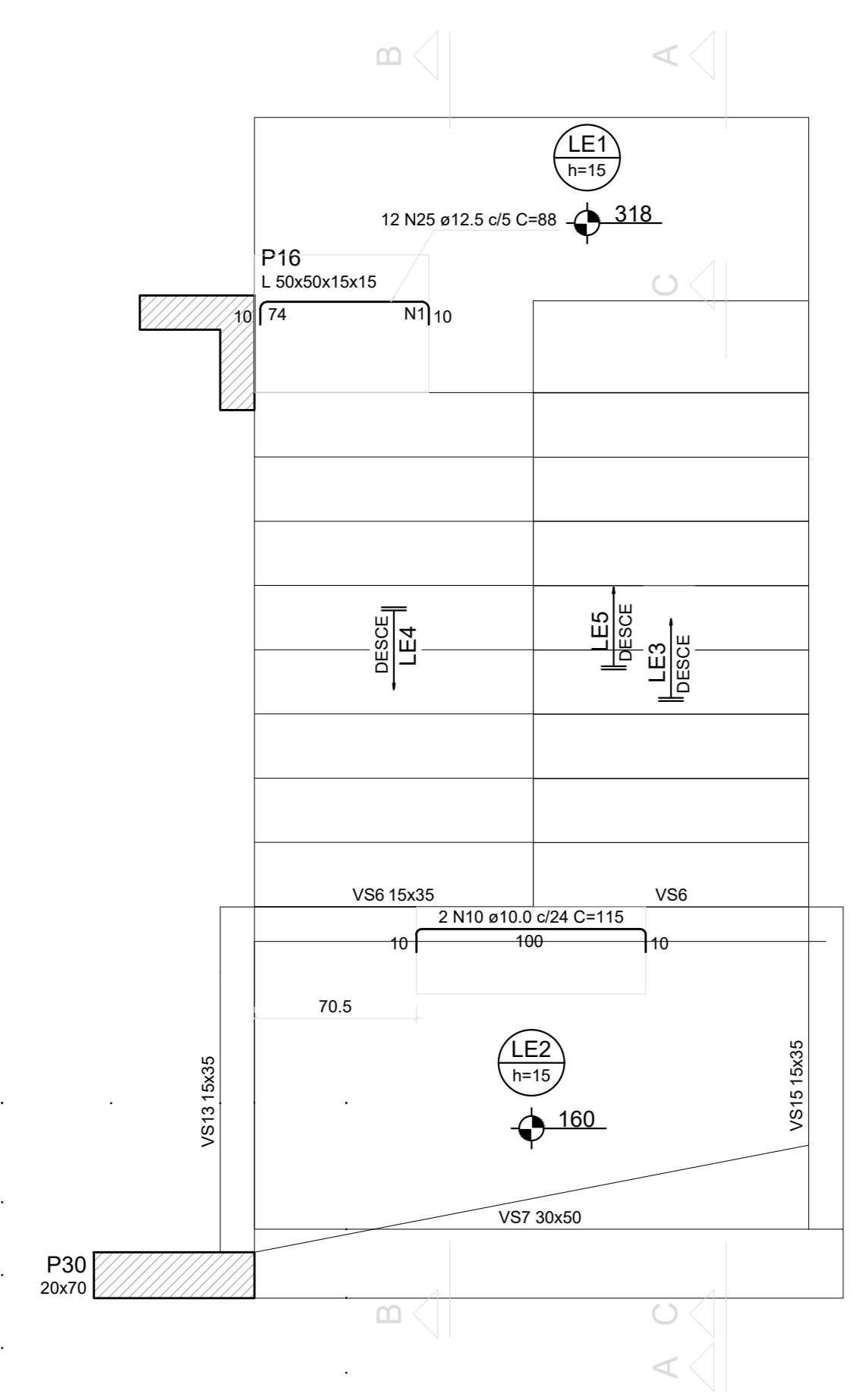


RESUMO DO AÇO - Escada E1 - Pavimento ao 2º Subsolo

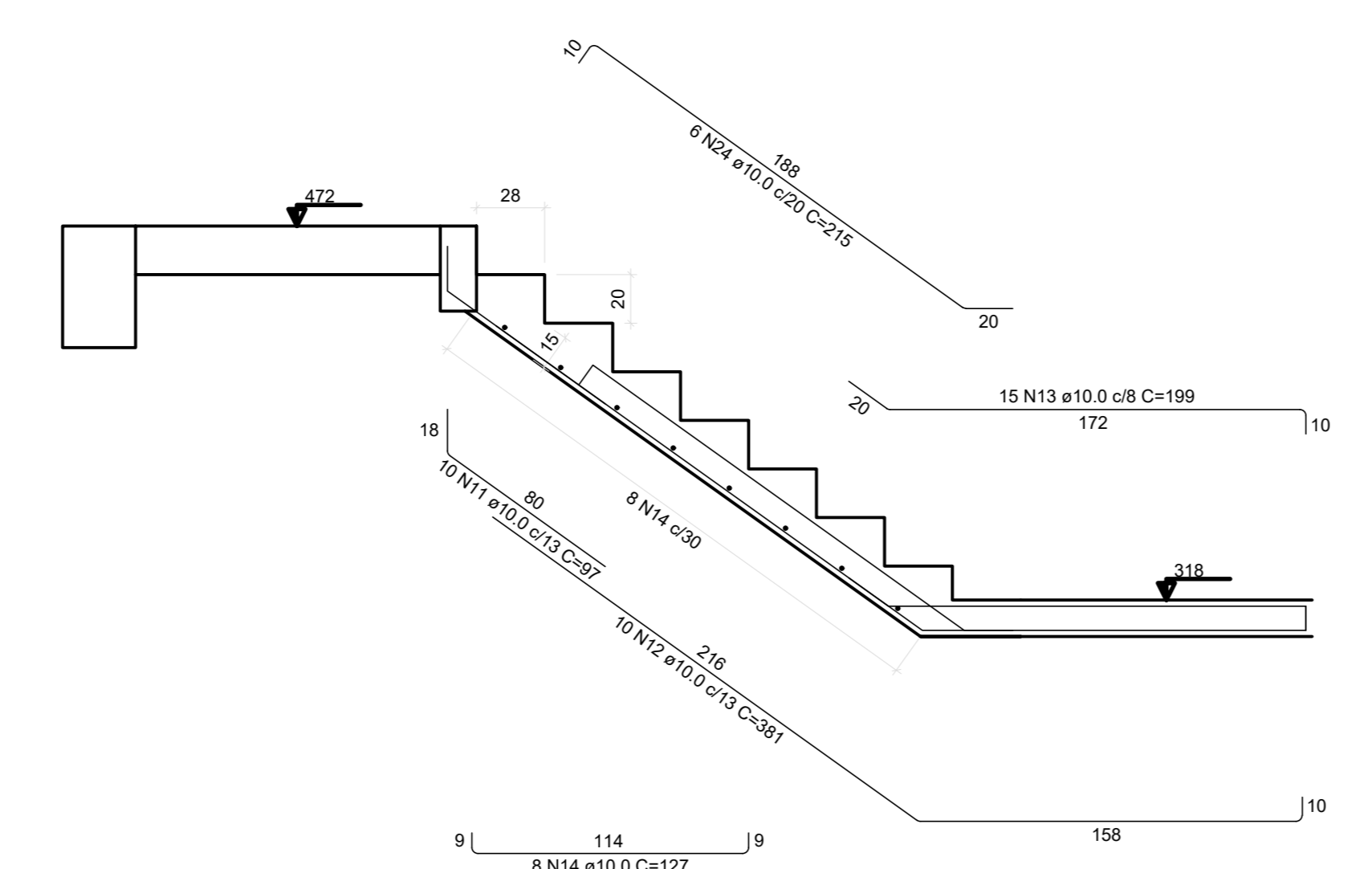
ACQ	N	DIAM	QUANT	C.UNIT	C.TOTAL	LE14	LE15	LE13
mm	mm	mm	mm	mm	mm	mm	mm	mm
CHAD	1	8.0	10	331	3310			
	2	8.0	8	135	1350			
	3	8.0	8	135	1350			
	4	8.0	8	135	1350			
	5	8.0	8	135	1350			
	6	8.0	8	135	1350			
	7	8.0	8	135	1350			
	8	8.0	8	135	1350			
	9	8.0	8	135	1350			
	10	8.0	8	135	1350			
	11	8.0	8	135	1350			
	12	8.0	8	135	1350			
	13	8.0	8	135	1350			
	14	8.0	8	135	1350			
	15	8.0	8	135	1350			
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	25	8.0	8	135	1350			
	26	8.0	8	135	1350			
	27	8.0	8	135	1350			
	28	8.0	8	135	1350			
	29	8.0	8	135	1350			
	30	8.0	8	135	1350			
	31	8.0	8	135	1350			
	32	8.0	8	135	1350			
	33	8.0	8	135	1350			
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	41	8.0	8	135	1350			
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	43	8.0	8	135	1350			
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	63	8.0	8	135	1350			
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	68	8.0	8	135	1350			
	69	8.0	8	135	1350			
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	71	8.0	8	135	1350			
	72	8.0	8	135	1350			



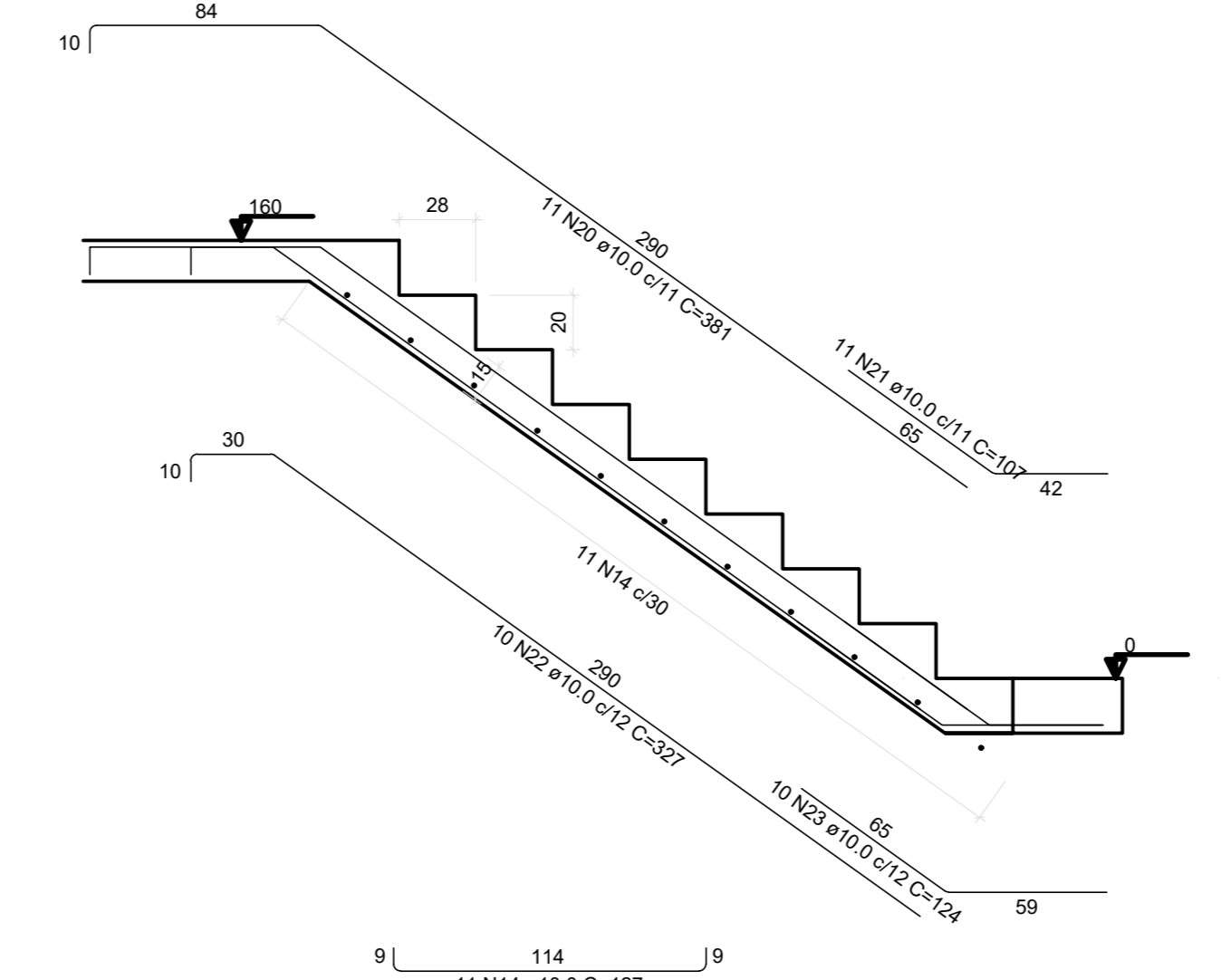
Armação Positiva da Escada E2  
ESC 1:25



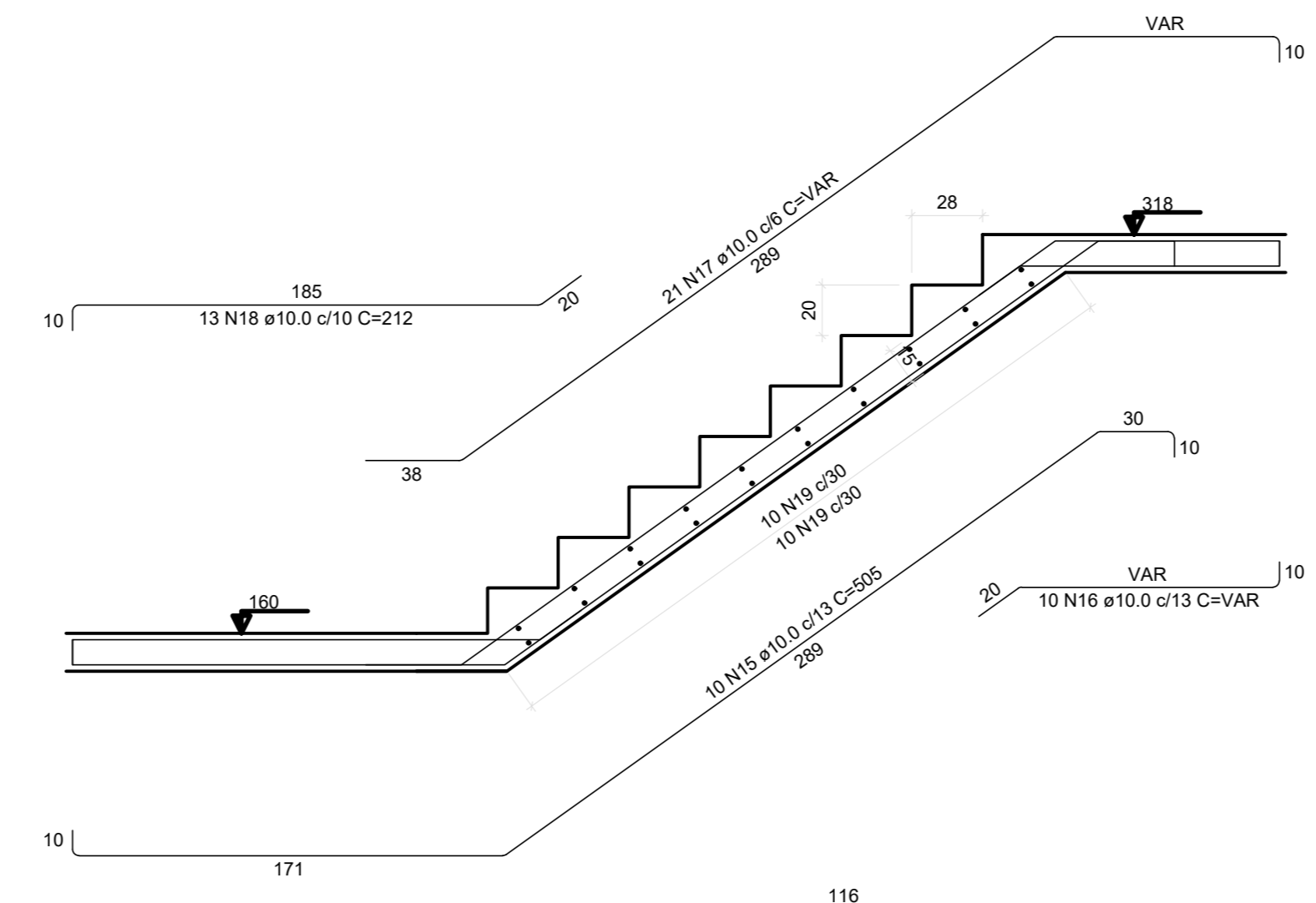
Armação Negativa da Escada E2  
ESC 1:25



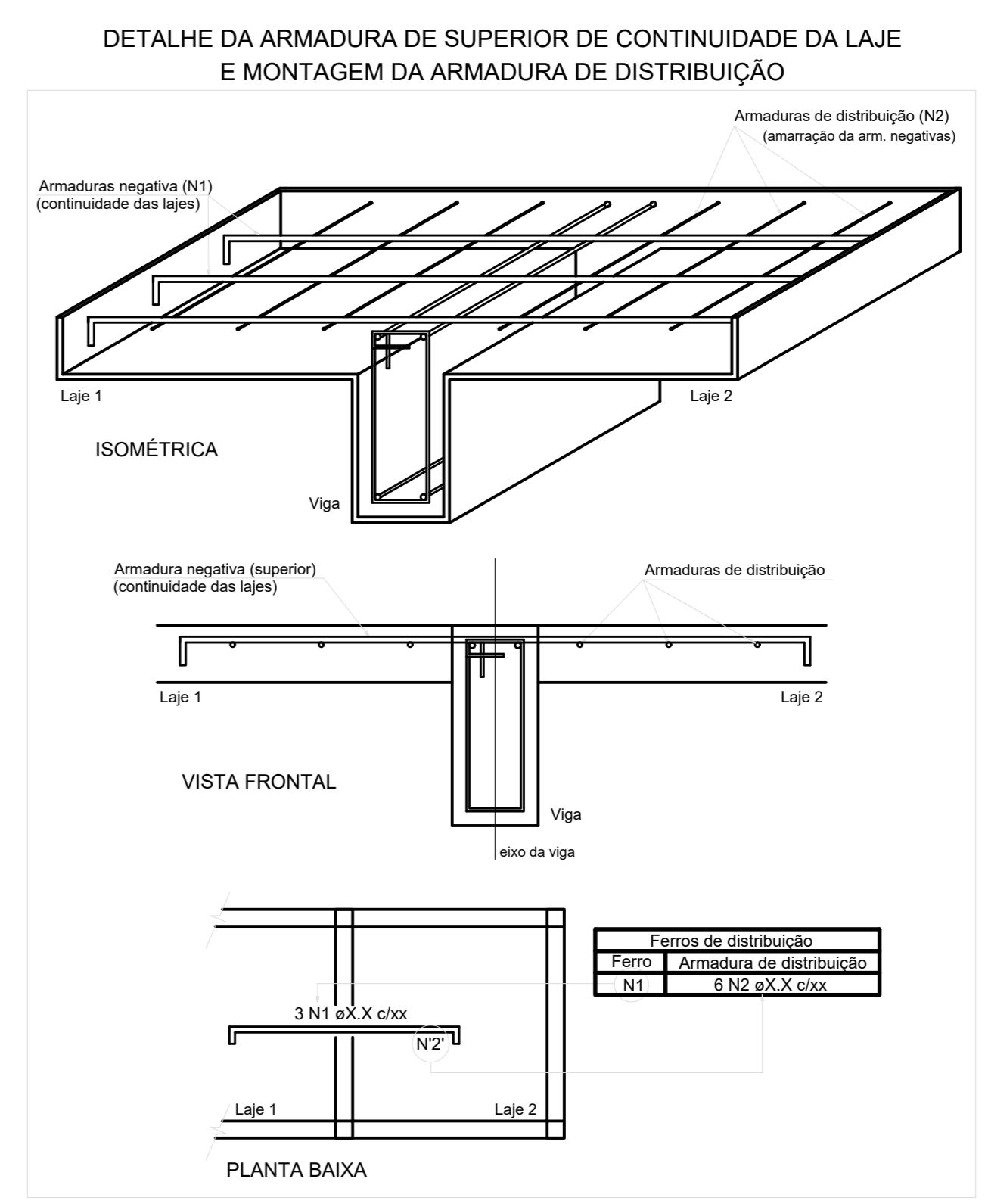
Corte A-A (LE3)  
ESC 1:25



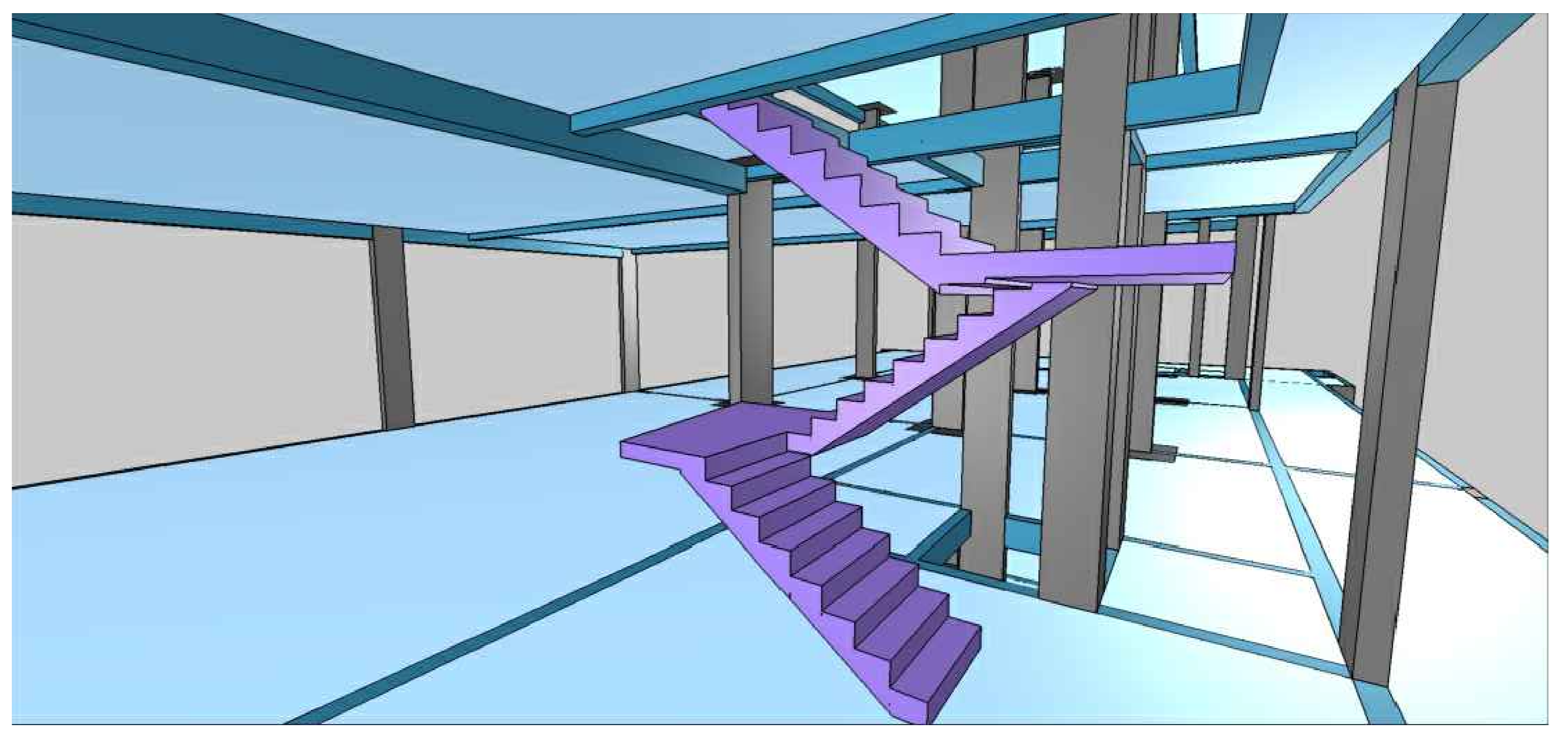
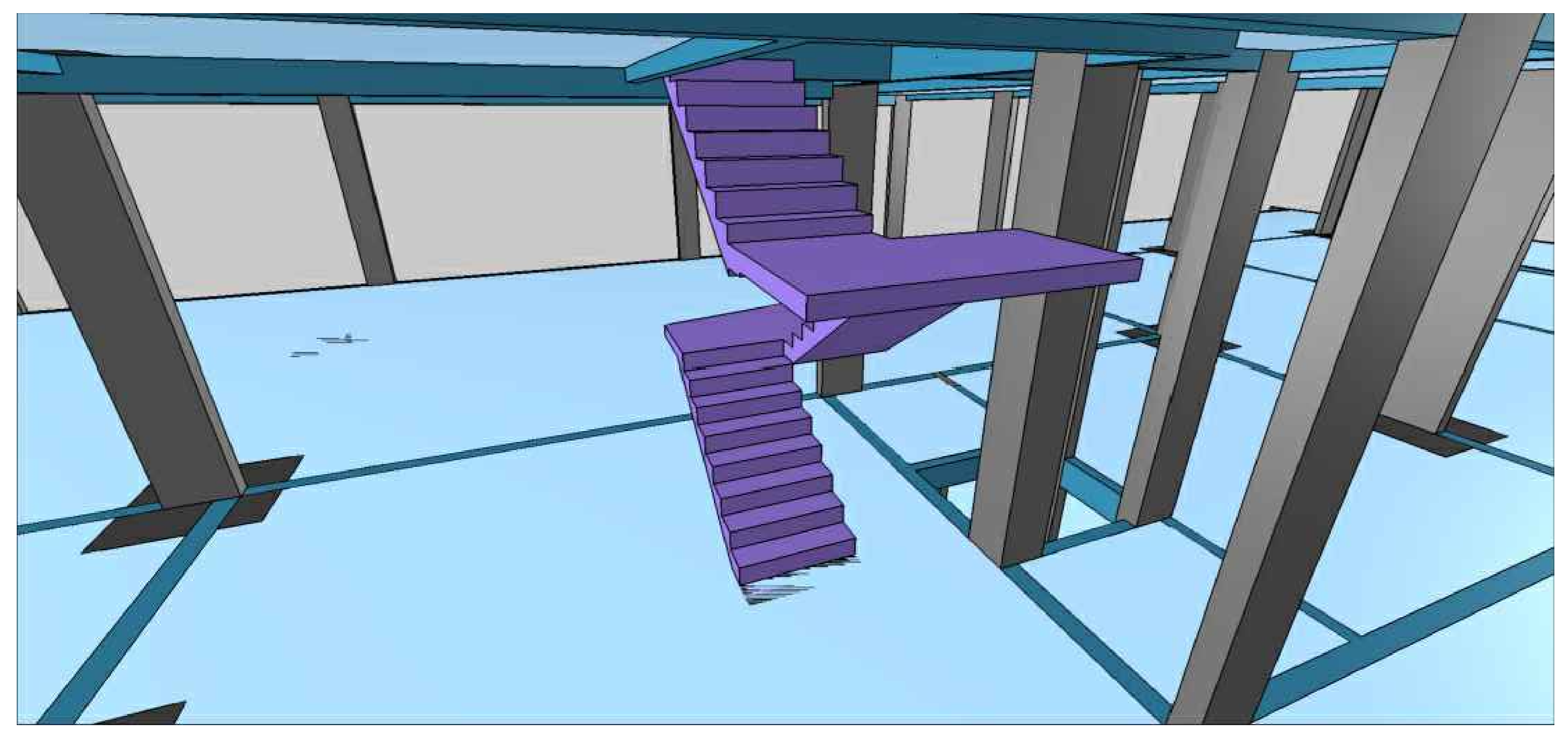
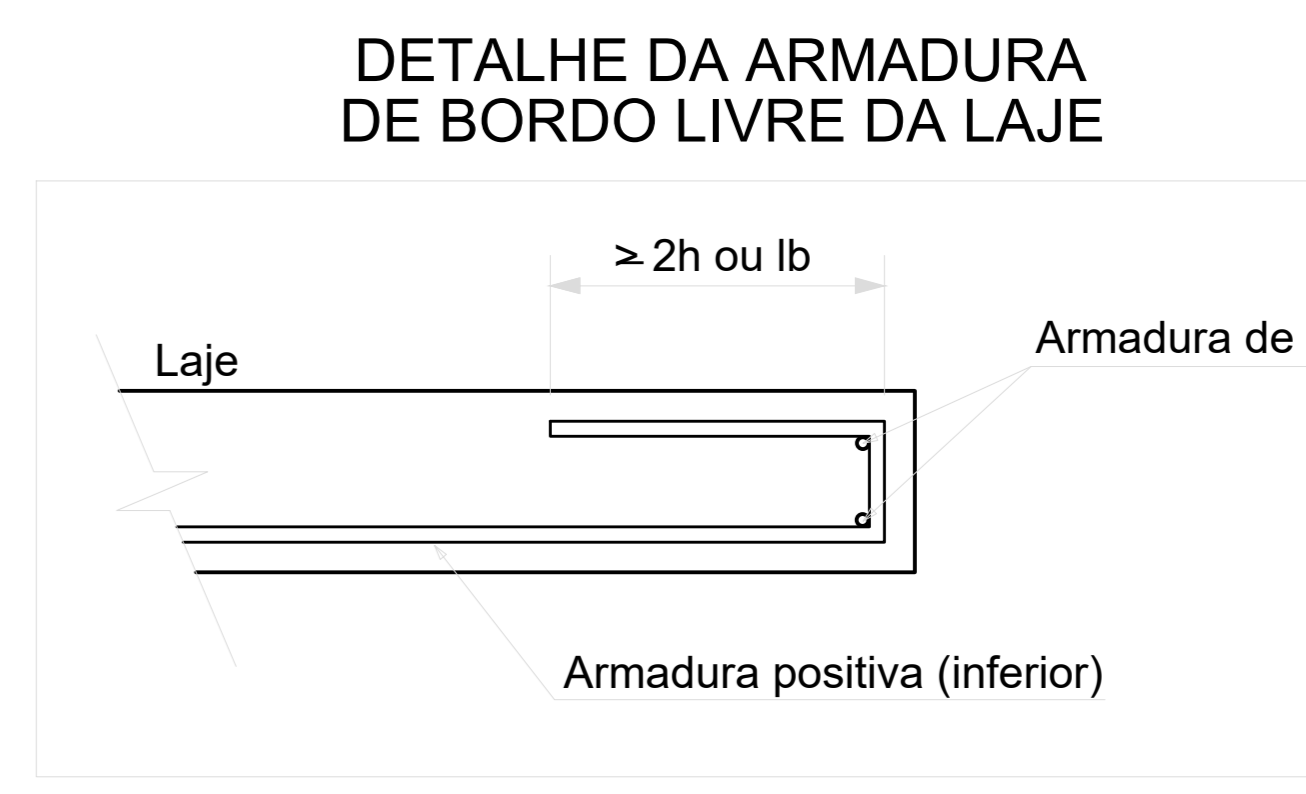
Corte C-C (LE5)  
ESC 1:25



Corte B-B (LE4)  
ESC 1:25



ACQ	N	DIAM (mm)	QUANT	C. UNIT (mm)	C. TOTAL (mm)
ACQ	1	10.0	16	30	1140
ACQ	2	10.0	16	30	1140
ACQ	3	10.0	16	30	1140
ACQ	4	10.0	16	30	1140
ACQ	5	10.0	16	30	1140
ACQ	6	10.0	16	30	1140
ACQ	7	10.0	16	30	1140
ACQ	8	10.0	16	30	1140
ACQ	9	10.0	16	30	1140
ACQ	10	10.0	16	30	1140
ACQ	11	10.0	16	30	1140
ACQ	12	10.0	16	30	1140
ACQ	13	10.0	16	30	1140
ACQ	14	10.0	16	30	1140
ACQ	15	10.0	16	30	1140
ACQ	16	10.0	16	30	1140
ACQ	17	10.0	16	30	1140
ACQ	18	10.0	16	30	1140
ACQ	19	10.0	16	30	1140
ACQ	20	10.0	16	30	1140
ACQ	21	10.0	16	30	1140
ACQ	22	10.0	16	30	1140
ACQ	23	10.0	16	30	1140
ACQ	24	10.0	16	30	1140
ACQ	25	10.0	16	30	1140
ACQ	26	10.0	16	30	1140
ACQ	27	10.0	16	30	1140
ACQ	28	10.0	16	30	1140
ACQ	29	10.0	16	30	1140
ACQ	30	10.0	16	30	1140
ACQ	31	10.0	16	30	1140
ACQ	32	10.0	16	30	1140
ACQ	33	10.0	16	30	1140
ACQ	34	10.0	16	30	1140
ACQ	35	10.0	16	30	1140
ACQ	36	10.0	16	30	1140
ACQ	37	10.0	16	30	1140
ACQ	38	10.0	16	30	1140
ACQ	39	10.0	16	30	1140
ACQ	40	10.0	16	30	1140
ACQ	41	10.0	16	30	1140
ACQ	42	10.0	16	30	1140
ACQ	43	10.0	16	30	1140
ACQ	44	10.0	16	30	1140
ACQ	45	10.0	16	30	1140
ACQ	46	10.0	16	30	1140
ACQ	47	10.0	16	30	1140
ACQ	48	10.0	16	30	1140
ACQ	49	10.0	16	30	1140
ACQ	50	10.0	16	30	1140
ACQ	51	10.0	16	30	1140
ACQ	52	10.0	16	30	1140
ACQ	53	10.0	16	30	1140
ACQ	54	10.0	16	30	1140
ACQ	55	10.0	16	30	1140
ACQ	56	10.0	16	30	1140
ACQ	57	10.0	16	30	1140
ACQ	58	10.0	16	30	1140
ACQ	59	10.0	16	30	1140
ACQ	60	10.0	16	30	1140
ACQ	61	10.0	16	30	1140
ACQ	62	10.0	16	30	1140
ACQ	63	10.0	16	30	1140
ACQ	64	10.0	16	30	1140
ACQ	65	10.0	16	30	1140
ACQ	66	10.0	16	30	1140
ACQ	67	10.0	16	30	1140
ACQ	68	10.0	16	30	1140
ACQ	69	10.0	16	30	1140
ACQ	70	10.0	16	30	1140
ACQ	71	10.0	16	30	1140
ACQ	72	10.0	16	30	1140
ACQ	73	10.0	16	30	1140
ACQ	74	10.0	16	30	1140
ACQ	75	10.0	16	30	1140
ACQ	76	10.0	16	30	1140
ACQ	77	10.0	16	30	1140
ACQ	78	10.0	16	30	1140
ACQ	79	10.0	16	30	1140
ACQ	80	10.0	16	30	1140
ACQ	81	10.0	16	30	1140
ACQ	82	10.0	16	30	1140
ACQ	83	10.0	16	30	1140
ACQ	84	10.0	16	30	1140
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ACQ	89	10.0	16	30	1140
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ACQ	92	10.0	16	30	1140
ACQ	93	10.0	16	30	1140
ACQ	94	10.0	16	30	1140
ACQ	95	10.0	16	30	1140
ACQ	96	10.0	16	30	1140
ACQ	97	10.0	16	30	1140
ACQ	98	10.0	16	30	1140
ACQ	99	10.0	16	30	1140
ACQ	100	10.0	16	30	1140



Revisões da prancha

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Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

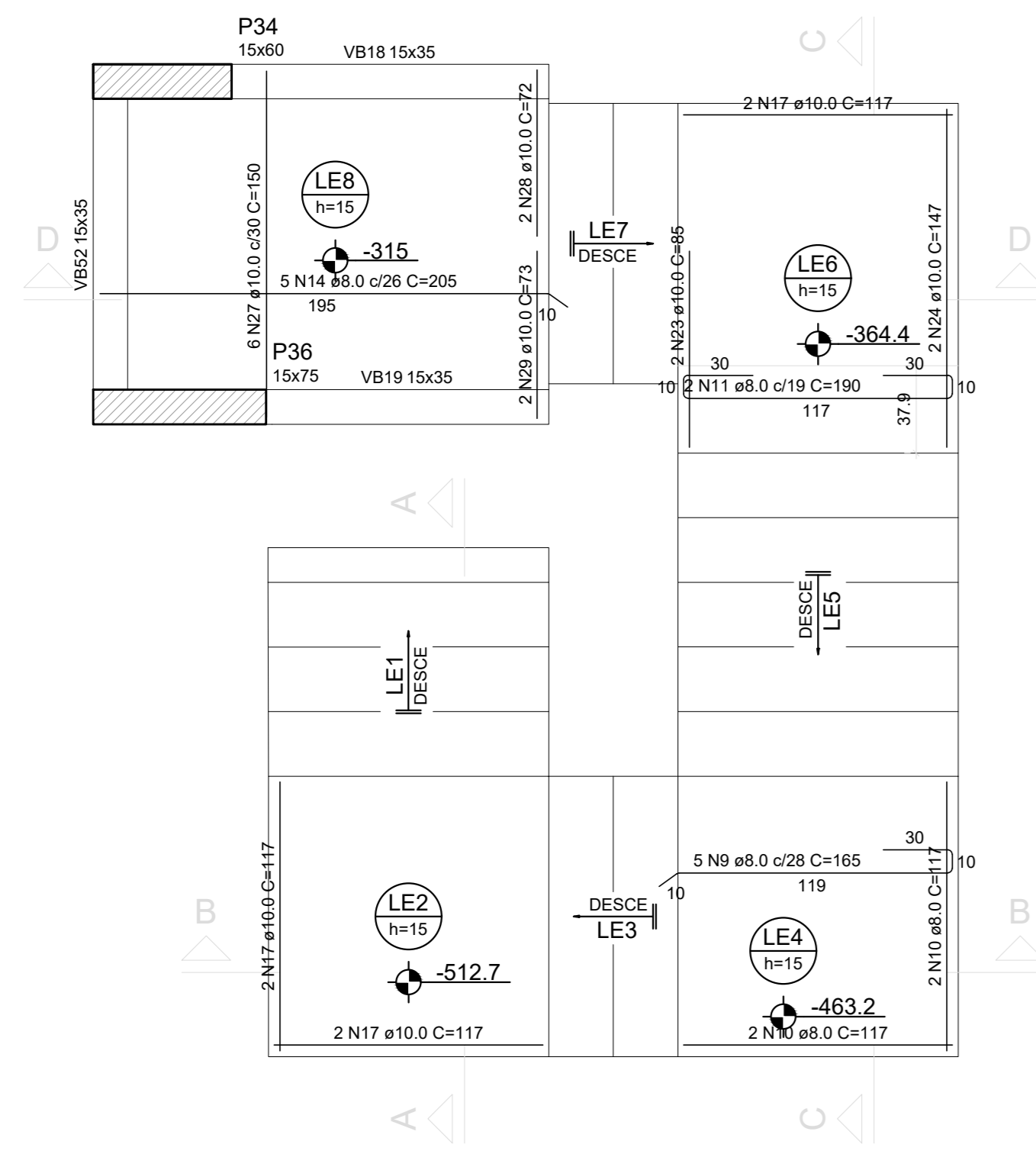
PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

PROJETO ESTRUTURAL  
 USO - INSTITUCIONAL  
 CONCRETO: FcK = 40 MPa FATOR A/C < 0.60  
 CONCRETO CLASSE C40 CLASSE AGRESSIV.: II  
 Contêido: ARMAÇÃO DA ESCADA E2 DO  
 PAVIMENTO SALÃO DE EVENTOS ao 1º PAVIMENTO  
 Data: 22/06/2022 | A. Lote: 2.000,00m² | Escala: 1/50

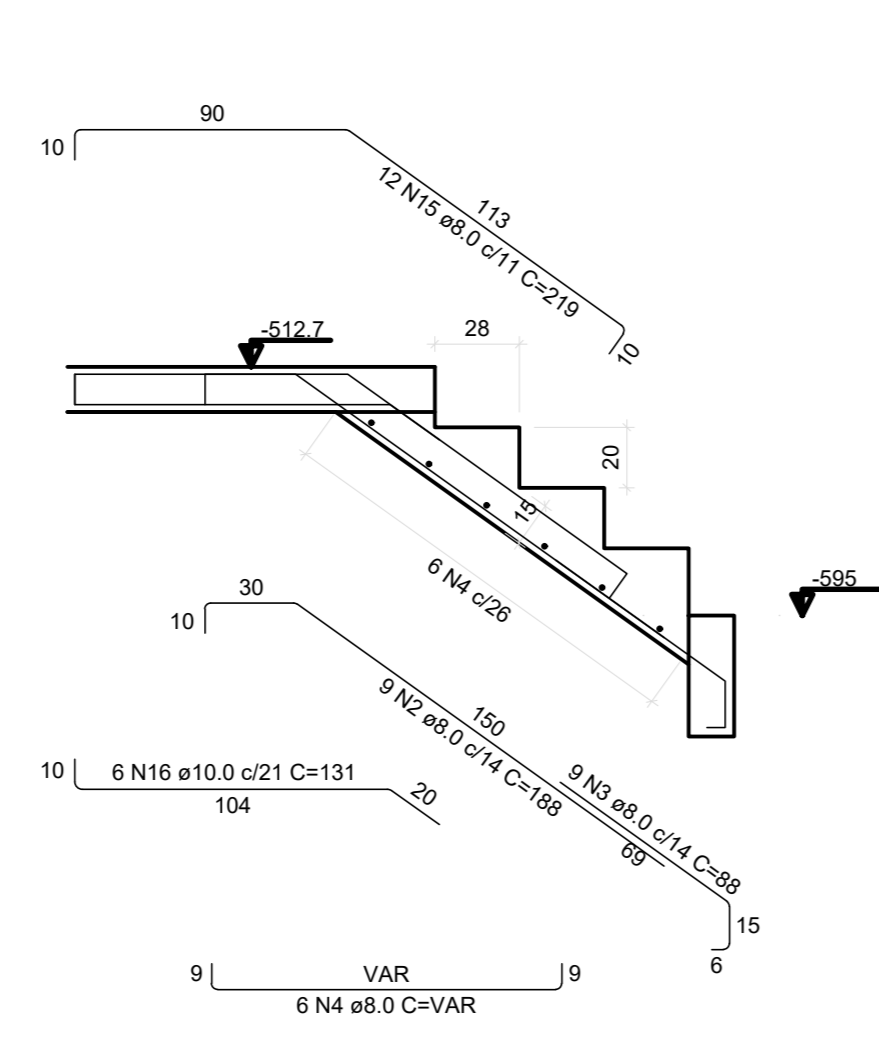
Prancha: ESTRUTURA 5

76/84

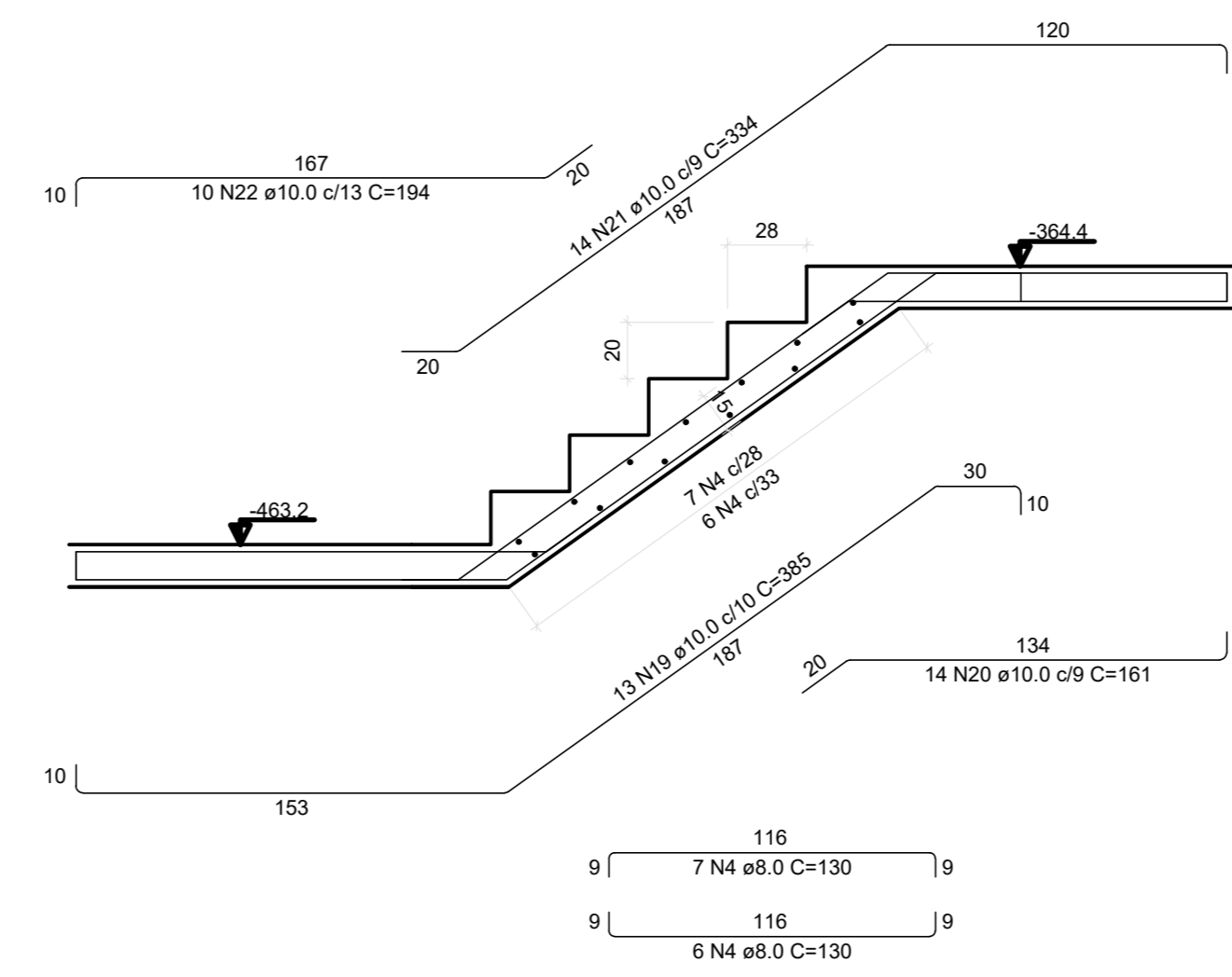




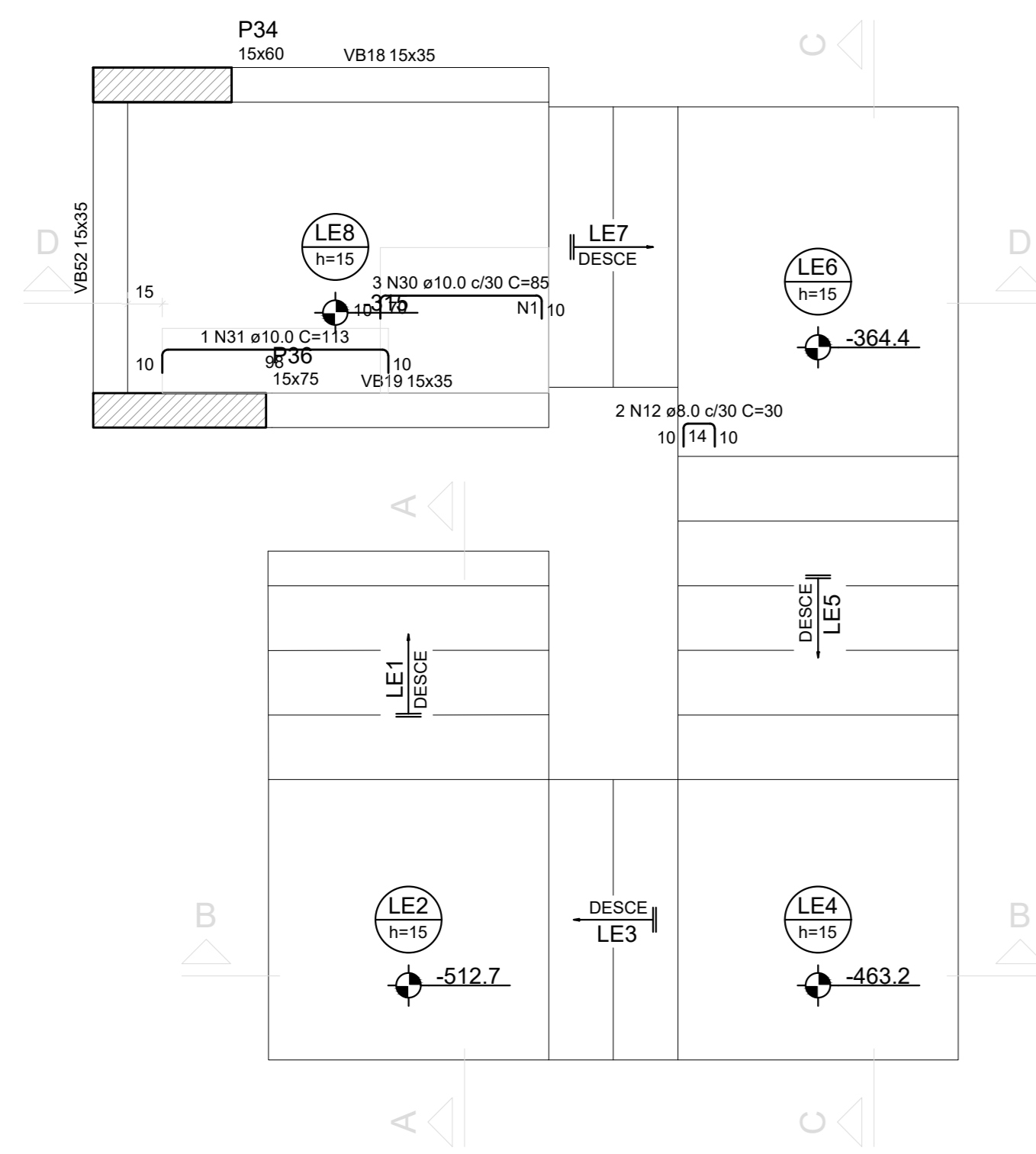
Armação Positiva da Escada E3  
ESC 1:25



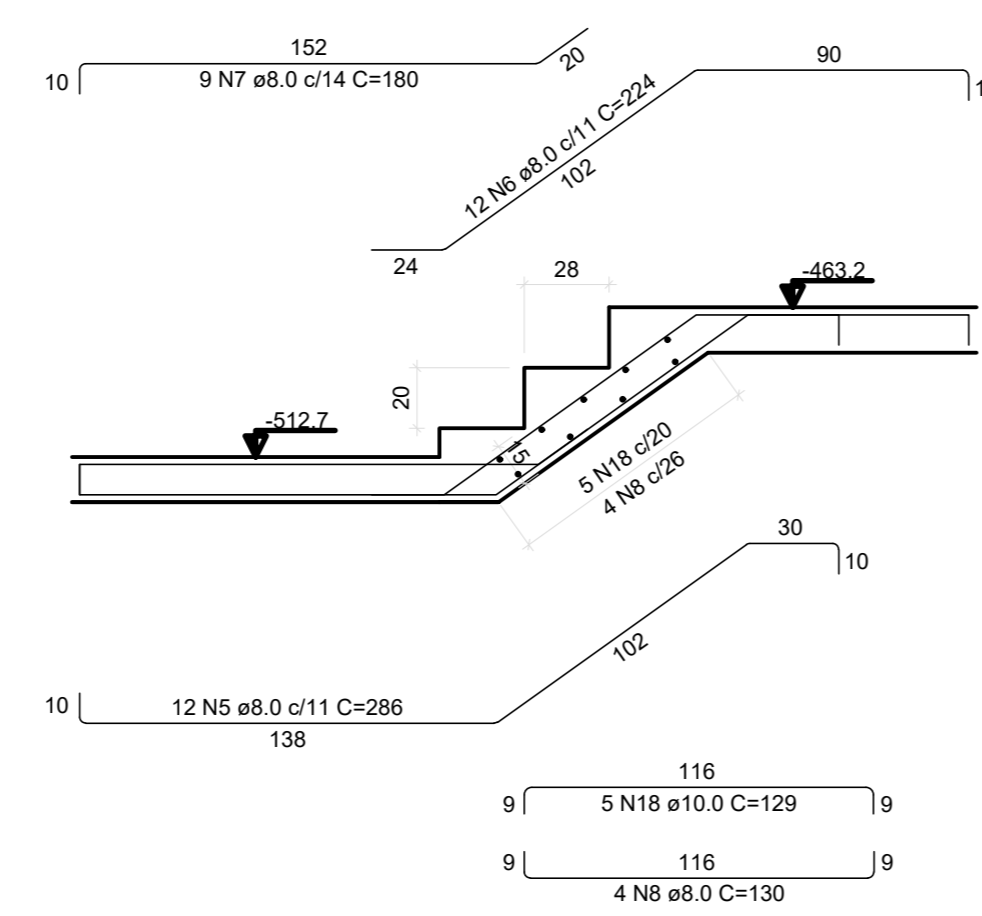
Corte A-A (LE1)  
ESC 1:25



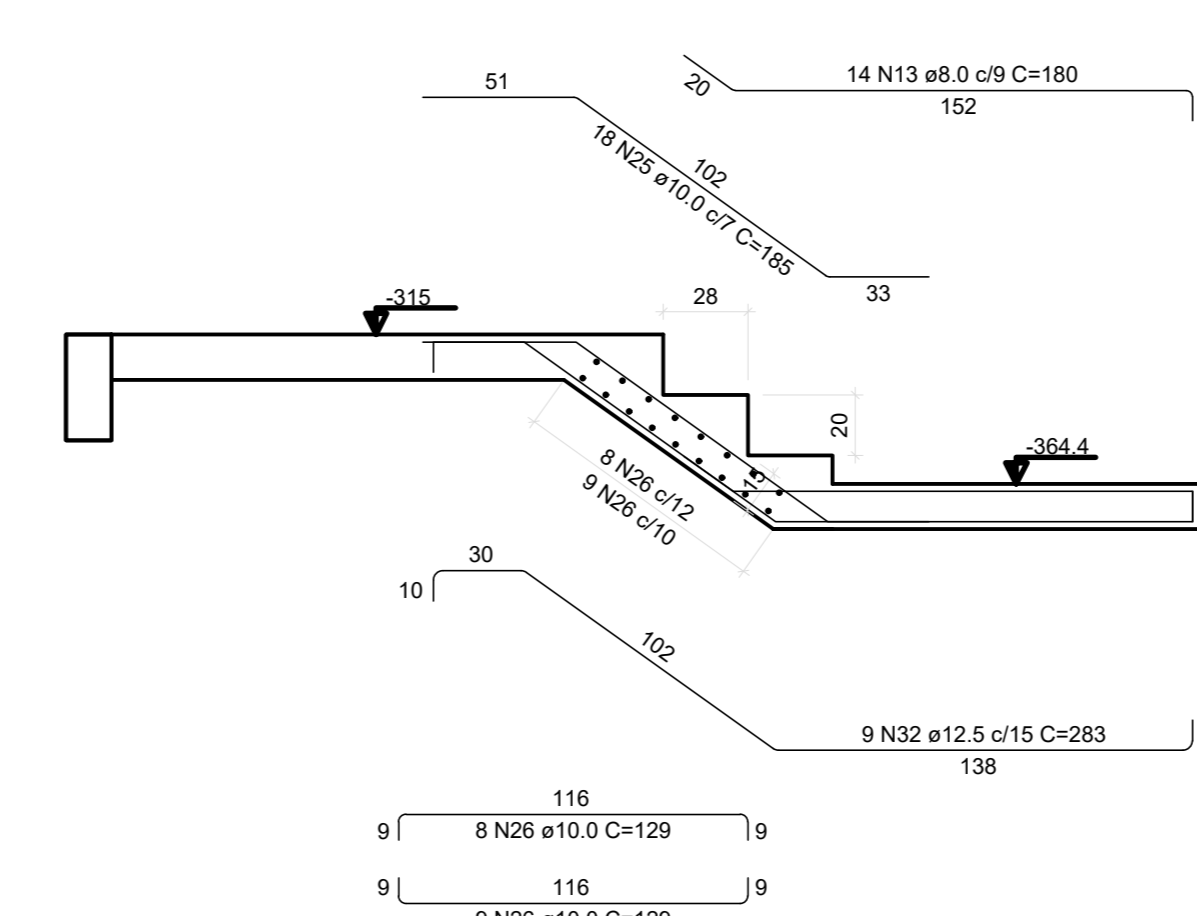
Corte C-C (LE5)  
ESC 1:25



Armação Negativa da Escada E3  
ESC 1:25



Corte B-B (LE3)  
ESC 1:25



Corte D-D (LE7)  
ESC 1:25

RESUMO DO AÇO - Escada E3 - 1º Subsolo ao 2º Subsolo

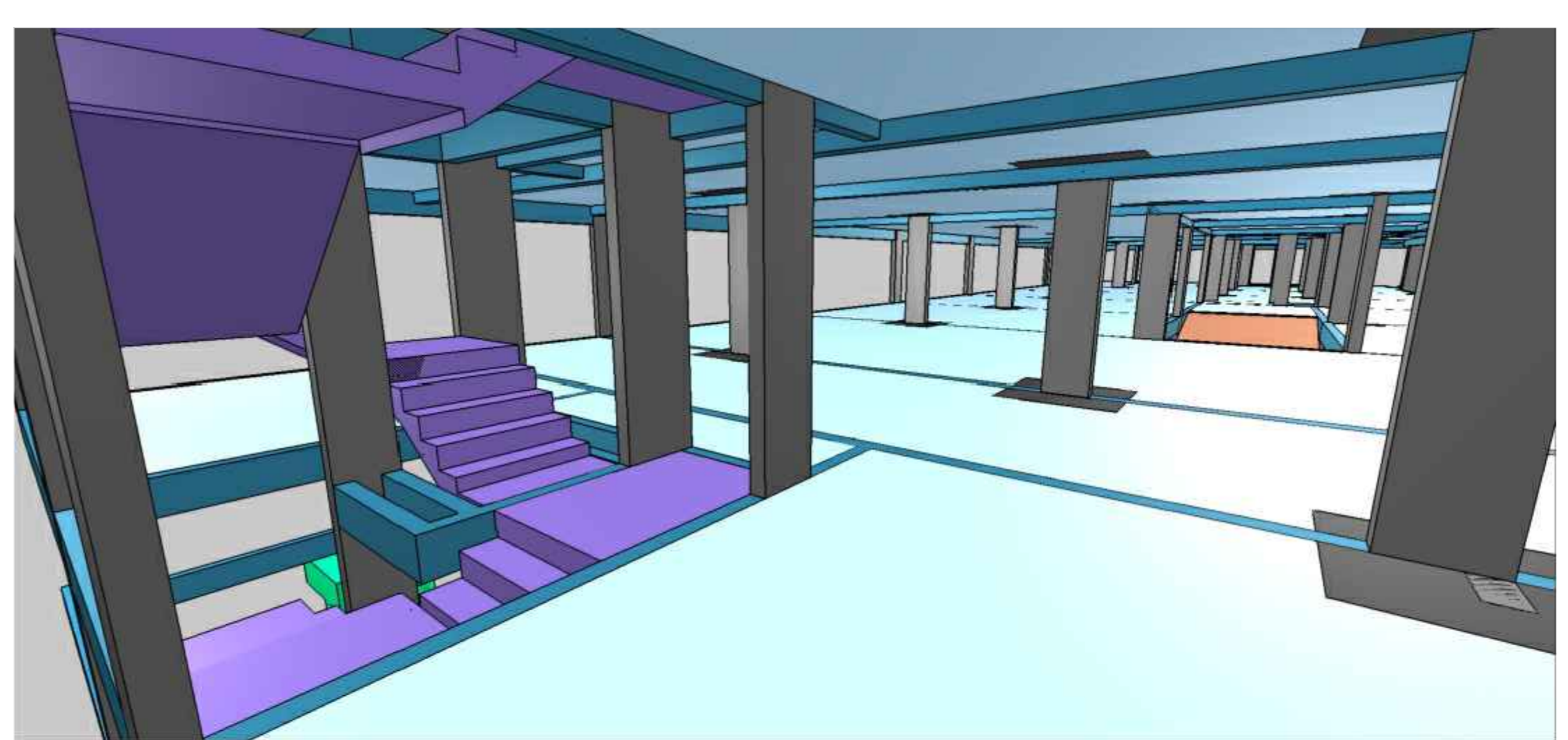
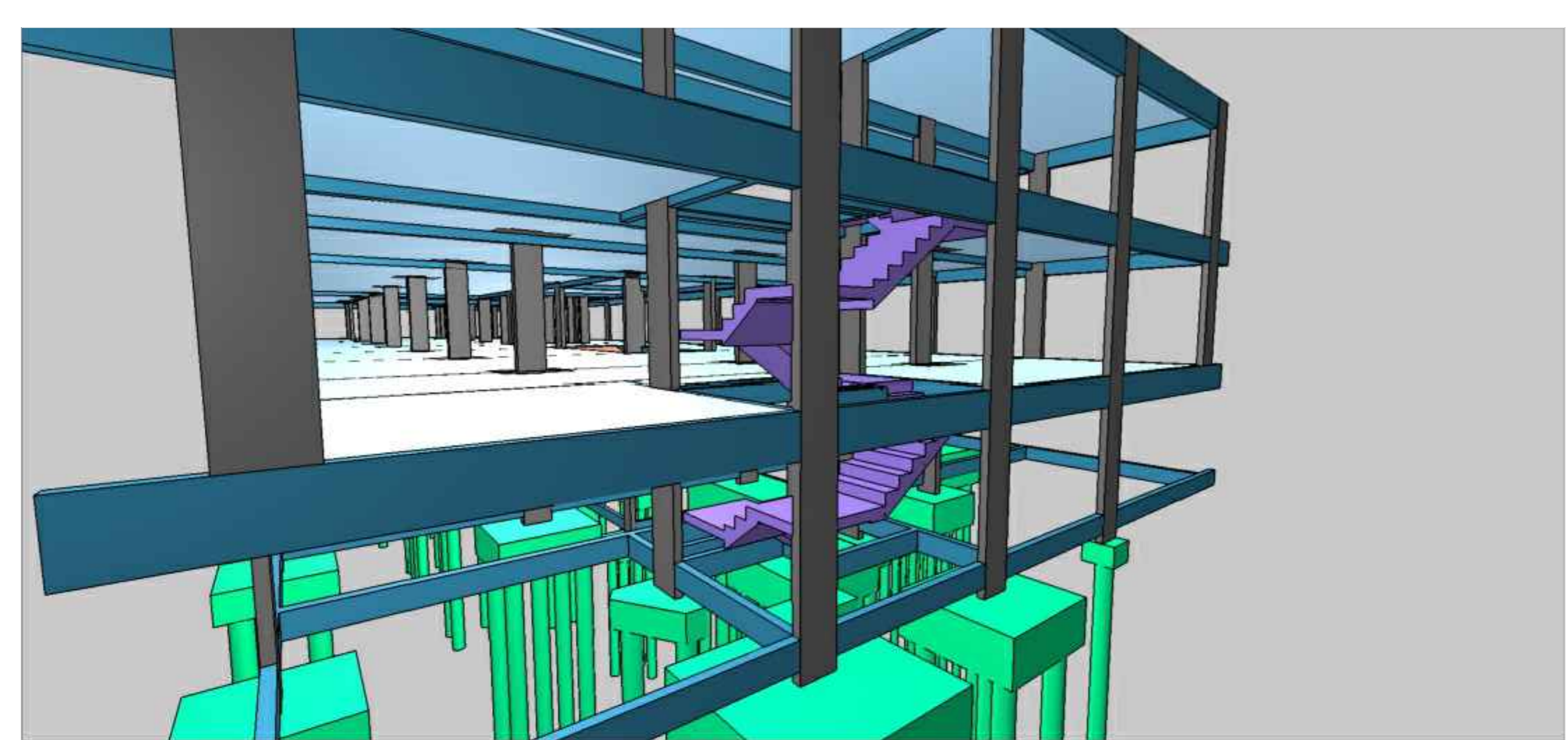
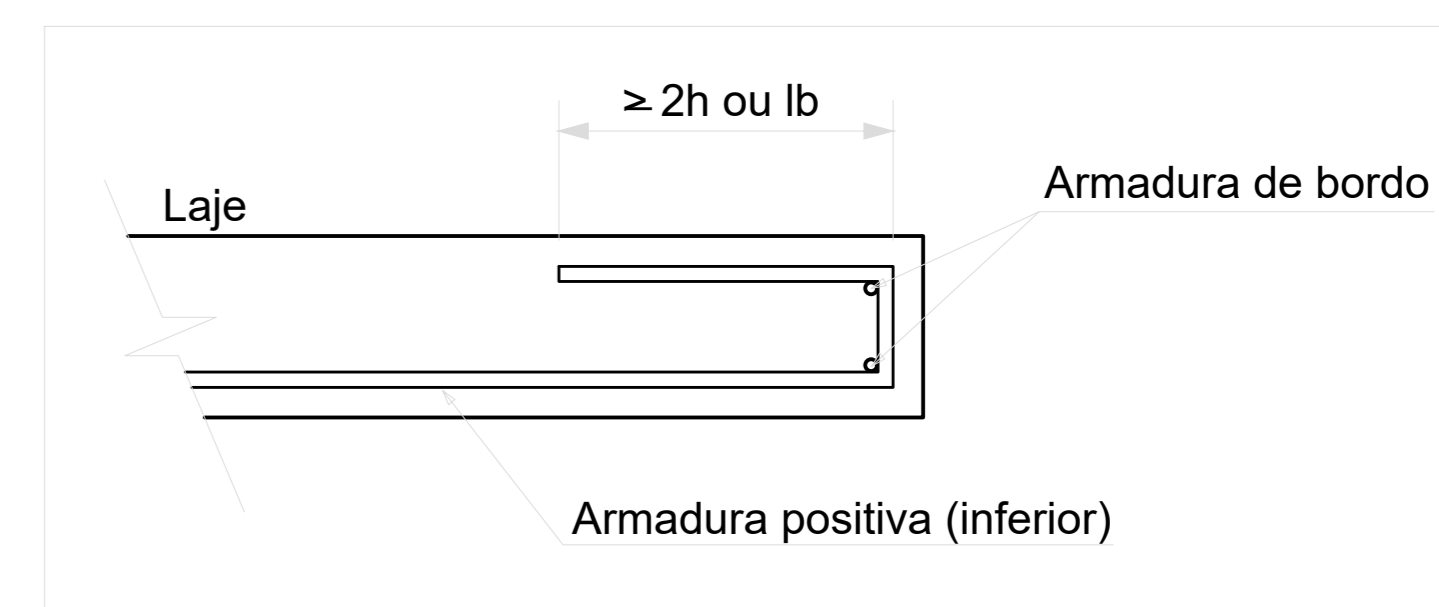
ACQ	N	DIAM (mm)	QUANT	C (mm)	C TOTAL (mm)
CABO	1	8.0	8	180	315
CABO	2	8.0	8	180	315
CABO	3	8.0	8	180	315
CABO	4	8.0	8	180	315
CABO	5	8.0	8	180	315
CABO	6	8.0	8	180	315
CABO	7	8.0	8	180	315
CABO	8	8.0	8	180	315
CABO	9	8.0	8	180	315
CABO	10	8.0	8	180	315
CABO	11	8.0	8	180	315
CABO	12	8.0	8	180	315
CABO	13	8.0	8	180	315
CABO	14	8.0	8	180	315
CABO	15	8.0	8	180	315
CABO	16	8.0	8	180	315
CABO	17	8.0	8	180	315
CABO	18	8.0	8	180	315
CABO	19	8.0	8	180	315
CABO	20	8.0	8	180	315
CABO	21	8.0	8	180	315
CABO	22	8.0	8	180	315
CABO	23	8.0	8	180	315
CABO	24	8.0	8	180	315
CABO	25	8.0	8	180	315
CABO	26	8.0	8	180	315
CABO	27	8.0	8	180	315
CABO	28	8.0	8	180	315
CABO	29	8.0	8	180	315
CABO	30	8.0	8	180	315
CABO	31	8.0	8	180	315
CABO	32	8.0	8	180	315
CABO	33	8.0	8	180	315
CABO	34	8.0	8	180	315
CABO	35	8.0	8	180	315
CABO	36	8.0	8	180	315
CABO	37	8.0	8	180	315
CABO	38	8.0	8	180	315
CABO	39	8.0	8	180	315
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CABO	42	8.0	8	180	315
CABO	43	8.0	8	180	315
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CABO	47	8.0	8	180	315
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CABO	49	8.0	8	180	315
CABO	50	8.0	8	180	315
CABO	51	8.0	8	180	315
CABO	52	8.0	8	180	315
CABO	53	8.0	8	180	315
CABO	54	8.0	8	180	315
CABO	55	8.0	8	180	315
CABO	56	8.0	8	180	315
CABO	57	8.0	8	180	315
CABO	58	8.0	8	180	315
CABO	59	8.0	8	180	315
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CABO	61	8.0	8	180	315
CABO	62	8.0	8	180	315
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CABO	64	8.0	8	180	315
CABO	65	8.0	8	180	315
CABO	66	8.0	8	180	315
CABO	67	8.0	8	180	315
CABO	68	8.0	8	180	315
CABO	69	8.0	8	180	315
CABO	70	8.0	8	180	315
CABO	71	8.0	8	180	315
CABO	72	8.0	8	180	315
CABO	73	8.0	8	180	315
CABO	74	8.0	8	180	315
CABO	75	8.0	8	180	315
CABO	76	8.0	8	180	315
CABO	77	8.0	8	180	315
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CABO	93	8.0	8	180	315
CABO	94	8.0	8	180	315
CABO	95	8.0	8	180	315
CABO	96	8.0	8	180	315
CABO	97	8.0	8	180	315
CABO	98	8.0	8	180	315
CABO	99	8.0	8	180	315
CABO	100	8.0	8	180	315

RESUMO DO AÇO

ACQ	DIAM (mm)	C TOTAL (mm)	RESUMO + VAR (kg)
CABO	8.0	214.2	1017
CABO	10.0	255.0	591
CABO	12.5	251.4	65
RESUMO TOTAL			1673
CABO	278.4		
CABO	8.5		

Volume de concreto (C-40) = 2.28 m³  
Área da Laje = 21.91 m²

DETALHE DA ARMADURA DE BORDO LIVRE DA LAJE



Revisões da prancha

Nº	Descrição	Data
1		
2		
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4		
5		

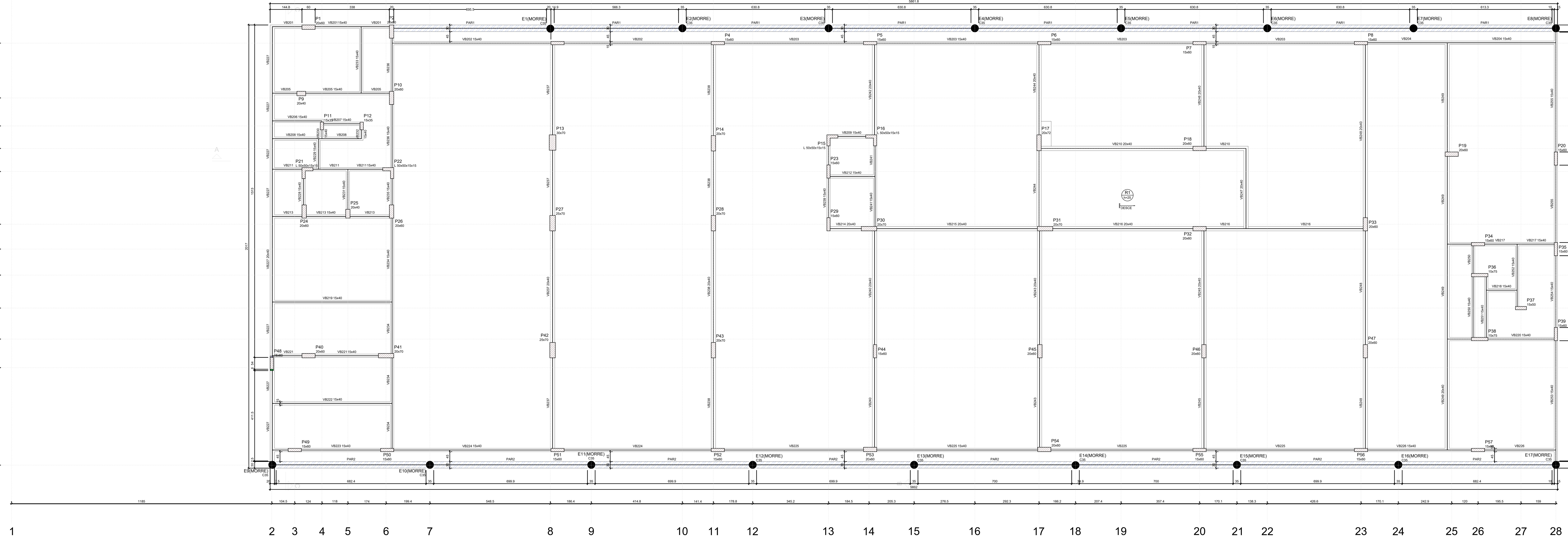
Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO \_\_\_\_\_  
 AUTOR DO PROJETO \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO \_\_\_\_\_

-1176.00 - E19 / E18

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L



Forma da Parede de Contenção (Nível -595)  
escala 1:50

### OBSERVAÇÃO:

O nível da inicial da Parede de Contenção poderá variar e deverá ser ajustado em obra.

- 84.00 - P1 / P2 / E1 / P3 / E2  
P4 / E3 / P5 / E4 / P6 / E5 / P7  
E6 / P8 / E7 / E8
- 333.50 - P9 / P10
- 461.00 - P11 / P12 / P15 / P16
- 563.50 - P13 / P14 / P17 / P18  
P19 / P20
- 668.50 - P21 / P22 / P23
- 908.50 - P24 / P25 / P26 / P27  
P28 / P29 / P30 / P31 / P32 / P33
- 1021.50 - P34 / P35
- 1140.00 - P36
- 1290.00 - P37
- 1431.00 - P42 / P43 / P44 / P45  
P46 / P47 / P38 / P39
- 1561.00 - E18 / P48 / P40 / P41
- 2005.00 - E19 / E9 / P49 / P50  
E10 / P51 / E11 / P52 / E12 / P53  
E13 / P54 / E14 / P55 / E15 / P56  
E16 / P57 / E17

Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
VR201	1540	0,00	0,00
VR202	1540	0,00	0,00
VR203	1540	0,00	0,00
VR204	1540	0,00	0,00
VR205	1540	0,00	0,00
VR206	1540	0,00	0,00
VR207	1540	0,00	0,00
VR208	1540	0,00	0,00
VR209	1540	0,00	0,00
VR210	2040	0,00	0,00
VR211	1540	0,00	0,00
VR212	1540	0,00	0,00
VR213	2040	0,00	0,00
VR214	2040	0,00	0,00
VR215	1540	0,00	0,00
VR216	1540	0,00	0,00
VR217	1540	0,00	0,00
VR218	1540	0,00	0,00
VR219	1540	0,00	0,00
VR220	1540	0,00	0,00
VR221	1540	0,00	0,00
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VR223	1540	0,00	0,00
VR224	1540	0,00	0,00
VR225	1540	0,00	0,00
VR226	1540	0,00	0,00
VR227	1540	0,00	0,00
VR228	1540	0,00	0,00
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VR247	1540	0,00	0,00
VR248	1540	0,00	0,00
VR249	1540	0,00	0,00
VR250	1540	0,00	0,00
VR251	1540	0,00	0,00
VR252	1540	0,00	0,00
VR253	1540	0,00	0,00
VR254	1540	0,00	0,00
VR255	1540	0,00	0,00

Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
P1	400	2187,00	874,80
P2	300	2088,00	626,40
P3	300	2088,00	626,40
P4	300	2088,00	626,40
P5	300	2088,00	626,40
P6	300	2088,00	626,40
P7	300	2088,00	626,40
P8	300	2088,00	626,40
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P25	300	2088,00	626,40
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P30	300	2088,00	626,40
P31	300	2088,00	626,40
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P51	300	2088,00	626,40
P52	300	2088,00	626,40
P53	300	2088,00	626,40
P54	300	2088,00	626,40
P55	300	2088,00	626,40
P56	300	2088,00	626,40

Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
E1	400	2187,00	874,80
E2	300	2088,00	626,40
E3	300	2088,00	626,40
E4	300	2088,00	626,40
E5	300	2088,00	626,40
E6	300	2088,00	626,40
E7	300	2088,00	626,40
E8	300	2088,00	626,40
E9	300	2088,00	626,40
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E11	300	2088,00	626,40
E12	300	2088,00	626,40
E13	300	2088,00	626,40
E14	300	2088,00	626,40
E15	300	2088,00	626,40
E16	300	2088,00	626,40
E17	300	2088,00	626,40

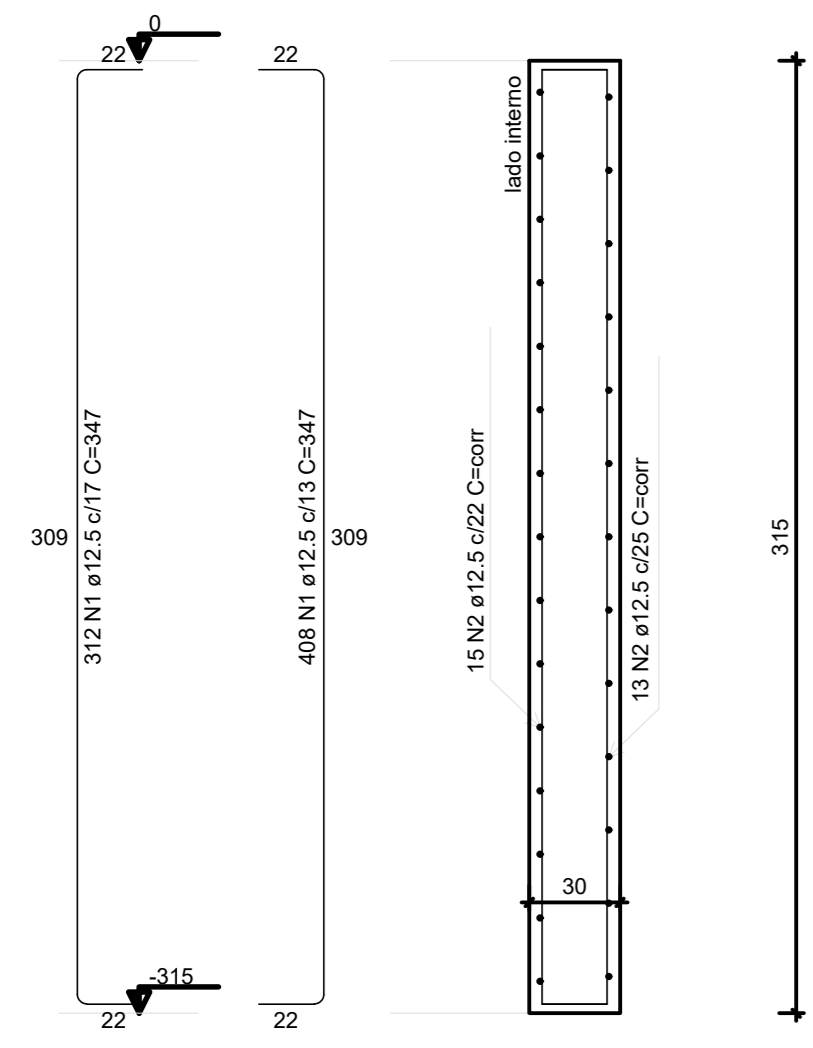
Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
P1	400	2187,00	874,80
P2	300	2088,00	626,40
P3	300	2088,00	626,40
P4	300	2088,00	626,40
P5	300	2088,00	626,40
P6	300	2088,00	626,40
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P18	300	2088,00	626,40
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P27	300	2088,00	626,40
P28	300	2088,00	626,40
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P52	300	2088,00	626,40
P53	300	2088,00	626,40
P54	300	2088,00	626,40
P55	300	2088,00	626,40
P56	300	2088,00	626,40

Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
E1	400	2187,00	874,80
E2	300	2088,00	626,40
E3	300	2088,00	626,40
E4	300	2088,00	626,40
E5	300	2088,00	626,40
E6	300	2088,00	626,40
E7	300	2088,00	626,40
E8	300	2088,00	626,40
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E10	300	2088,00	626,40
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E12	300	2088,00	626,40
E13	300	2088,00	626,40
E14	300	2088,00	626,40
E15	300	2088,00	626,40
E16	300	2088,00	626,40
E17	300	2088,00	626,40

Revisões da granha	Descrição	Data
1		
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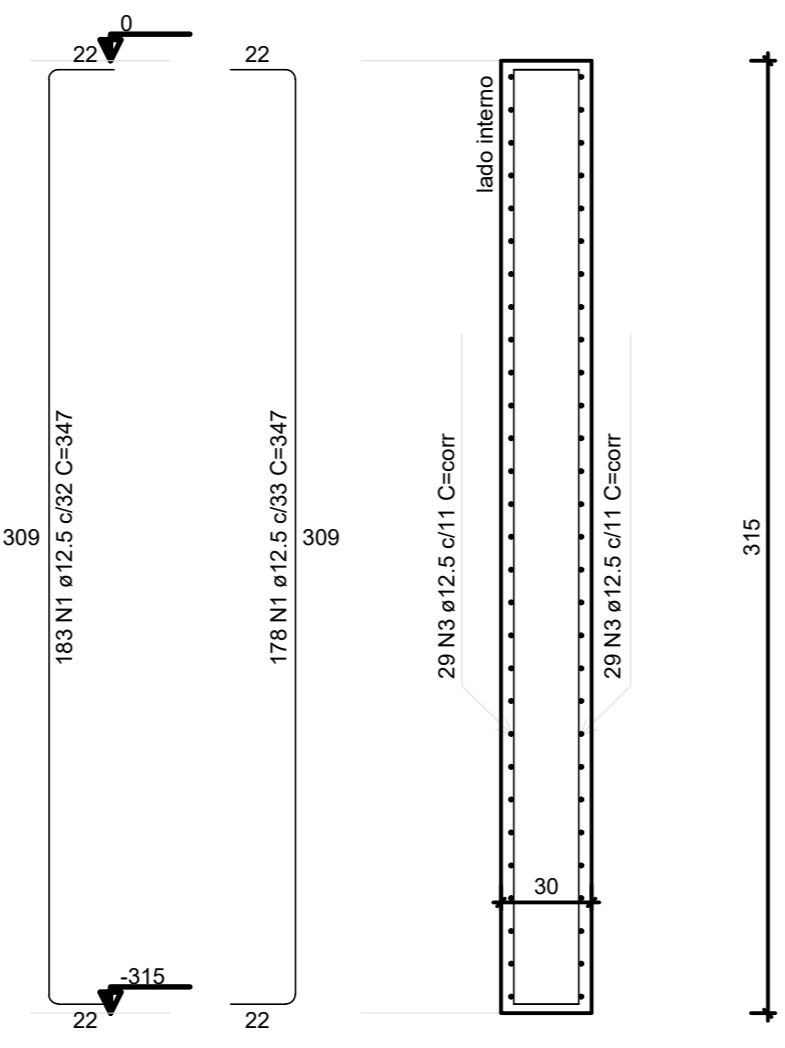
Item	Quantidade	Valor Unitário (R\$)	Valor Total (R\$)
VR201	1540	0,00	0,00
VR202	1540	0,00	0,00
VR203	1540	0,00	0,00
VR204	1540	0,00	0,00
VR205	1540	0,00	0,00
VR206	1540	0,00	0,00
VR207	1540	0,00	0,00
VR208	1540	0,00	0,00
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VR237	1540	0,00	0,00
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VR240	1540	0,00	0,00
VR241	1540	0,00	0,00
VR242	1540	0,00	0,00
VR243	1540	0,00	0,00
VR244	1540	0,0	





PAR1

ESC 1:25



PAR2

ESC 1:25

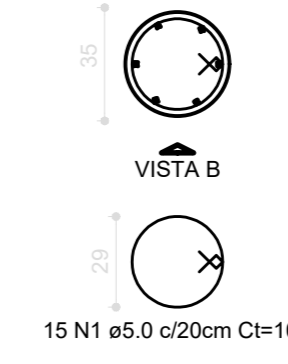
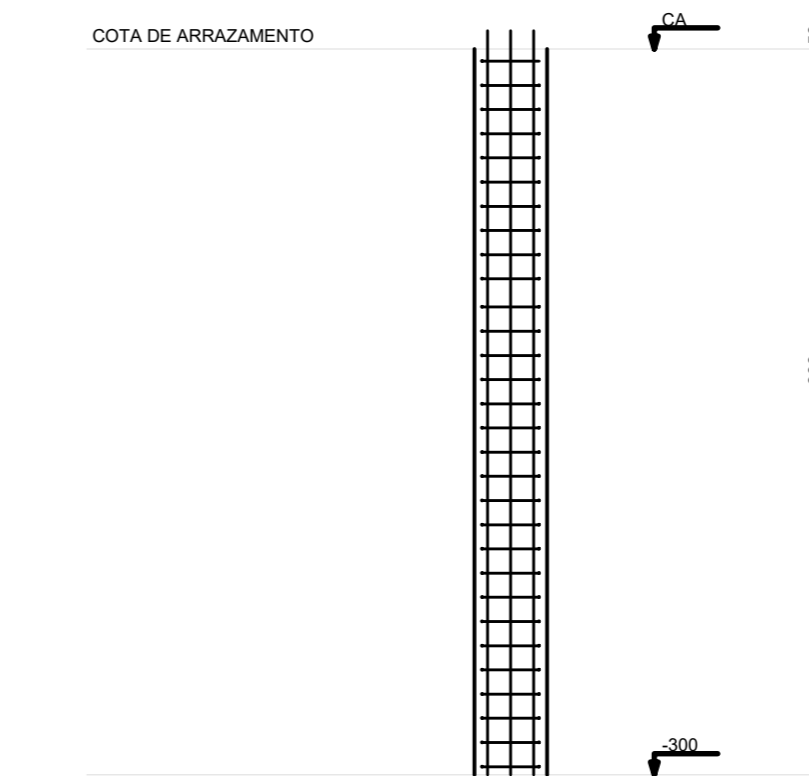
RELAÇÃO DO AÇO - 1º Subsolo ao 1º Pavimento

PARTE	PARTE	AÇO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CASO 1	1	12.5	1081	347	370107	148505		
CASO 2	2	12.5	88	347	30050			
<b>RESUMO DO AÇO</b>								
AÇO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)					
CASO 1	12.5	370107	148505					
CASO 2	12.5	30050	11855					
<b>PESO TOTAL (kg)</b>								
CASO 1	148505							

Volume de concreto (C-30) = 100,33 m³  
Área de forma = 730,64 m²

ARMAÇÃO DAS ESTACAS

E1 a E17 (17 UNIDADES)



OBSERVAÇÃO:

Para as estacas de 6 metros a armagem deverá ser colocada em toda a profundidade a partir da cota de ancoramento, ou seja 2 metros a baixo da cota de ancoramento, assim como o concreto.

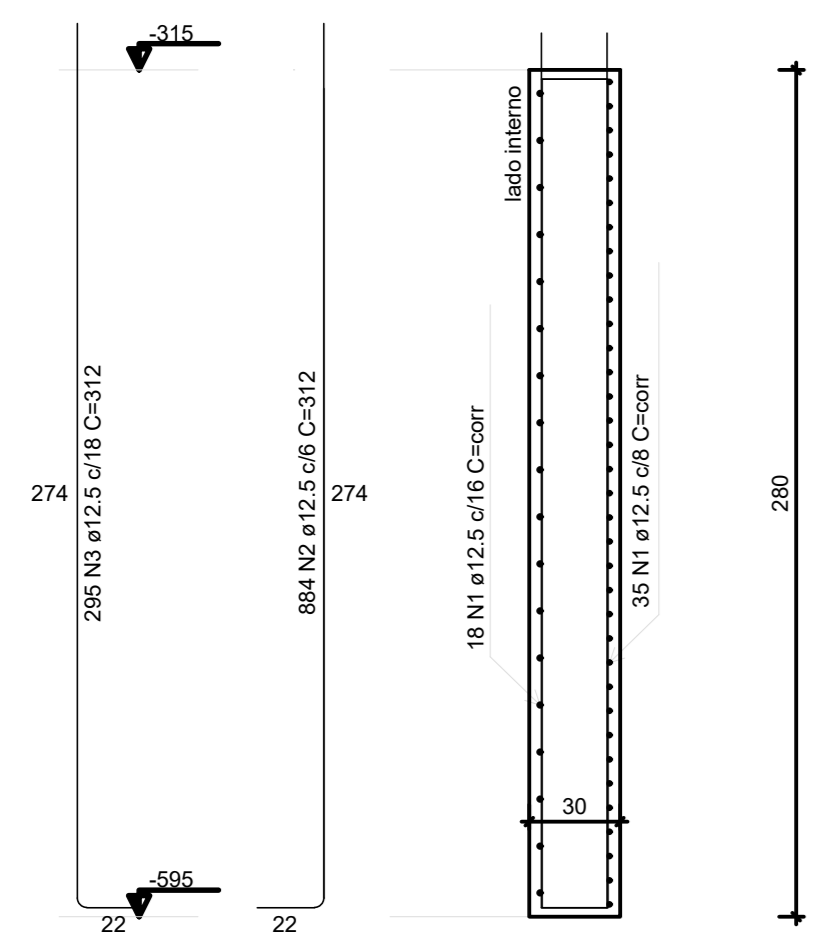
RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CASO 1	1	5.0	255	103	26295	20295
CASO 2	2	8.0	102	300	30700	30700

RESUMO DO AÇO

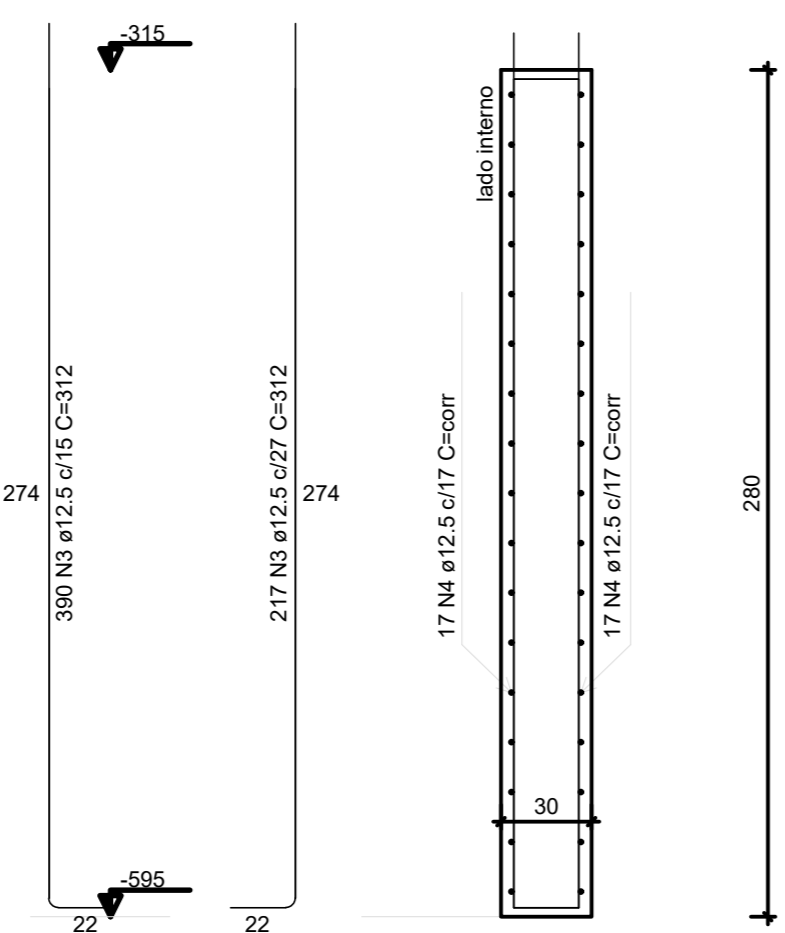
AÇO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CASO 1	5.0	26295	44.6
CASO 2	8.0	30700	155.9
<b>PESO TOTAL (kg)</b>			
CASO 1	44.6		
CASO 2	155.9		

Volume de concreto (C-30) = 4,91 m³



PAR1

ESC 1:25



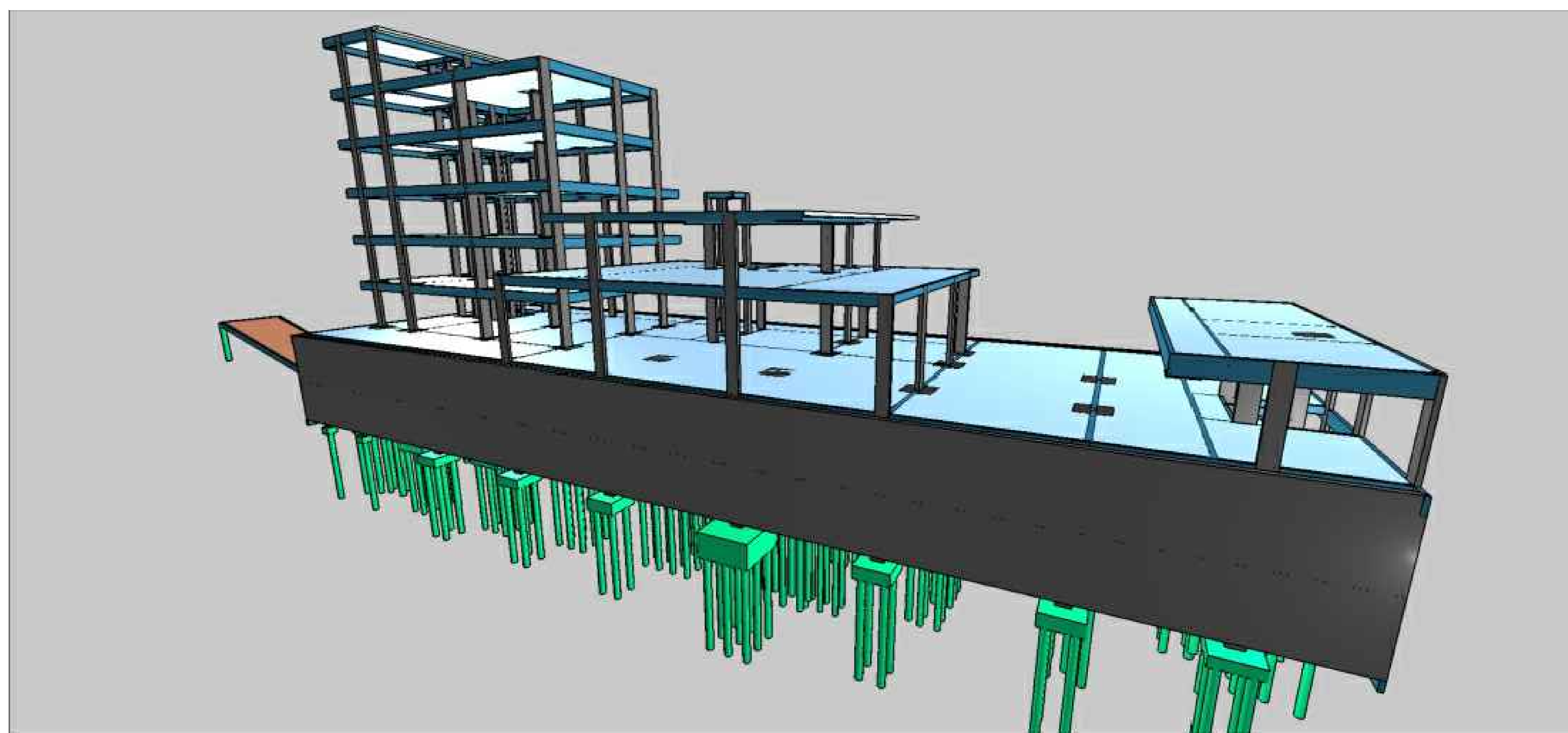
PAR2

ESC 1:25

RELAÇÃO DO AÇO - 2º Subsolo ao 1º Subsolo

PARTE	PARTE	AÇO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CASO 1	1	12.5	83	347	291098			
CASO 2	2	12.5	884	312	270958			
CASO 3	3	12.5	34	347	281424			
<b>RESUMO DO AÇO</b>								
AÇO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)					
CASO 1	12.5	291098	10986.5					
CASO 2	12.5	270958	10986.5					
CASO 3	12.5	281424	10986.5					
<b>PESO TOTAL (kg)</b>								
CASO 1	10986.5							

Volume de concreto (C-30) = 83,63 m³  
Área de forma = 827,81 m²



Revisões da prancha

1			
2			
3			
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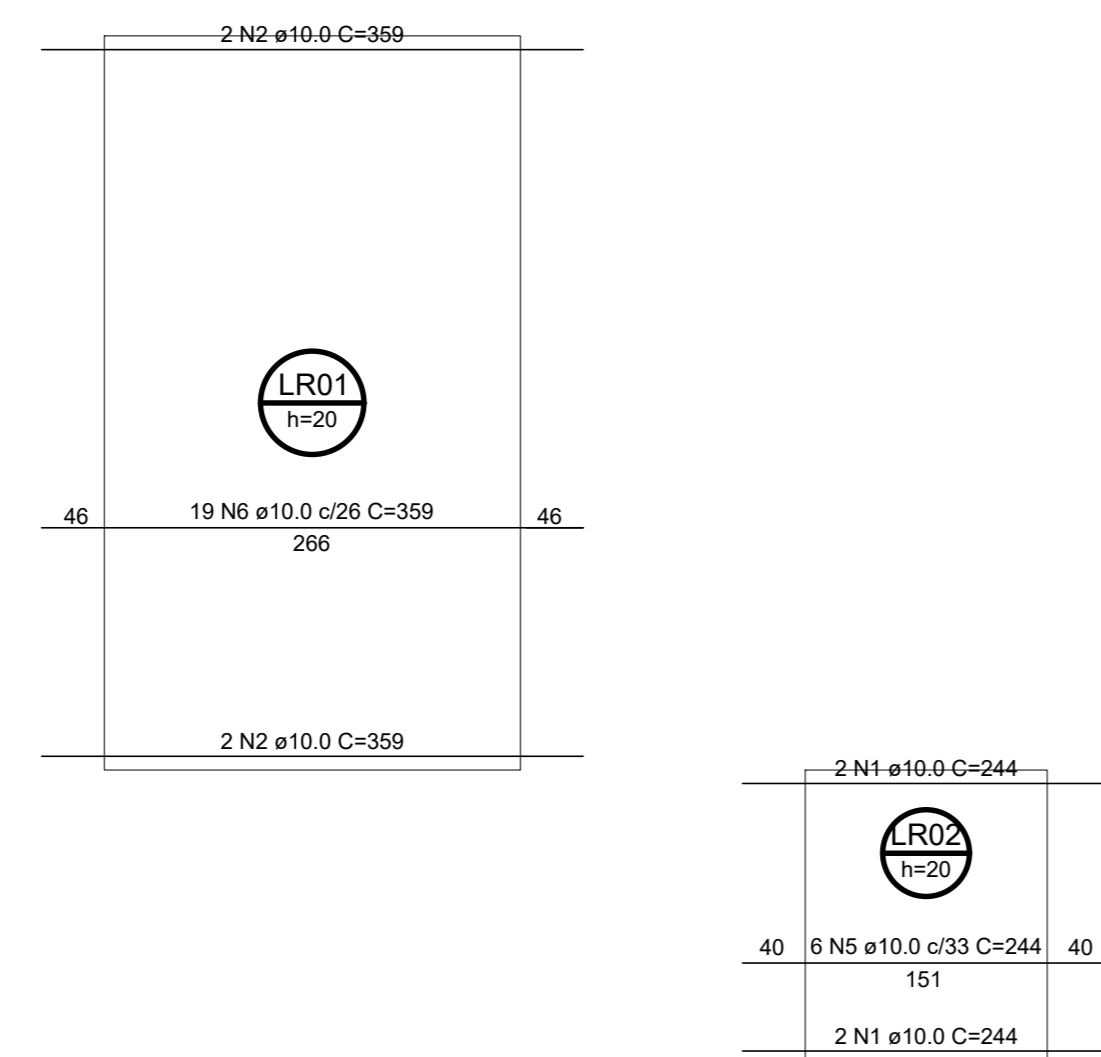
Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

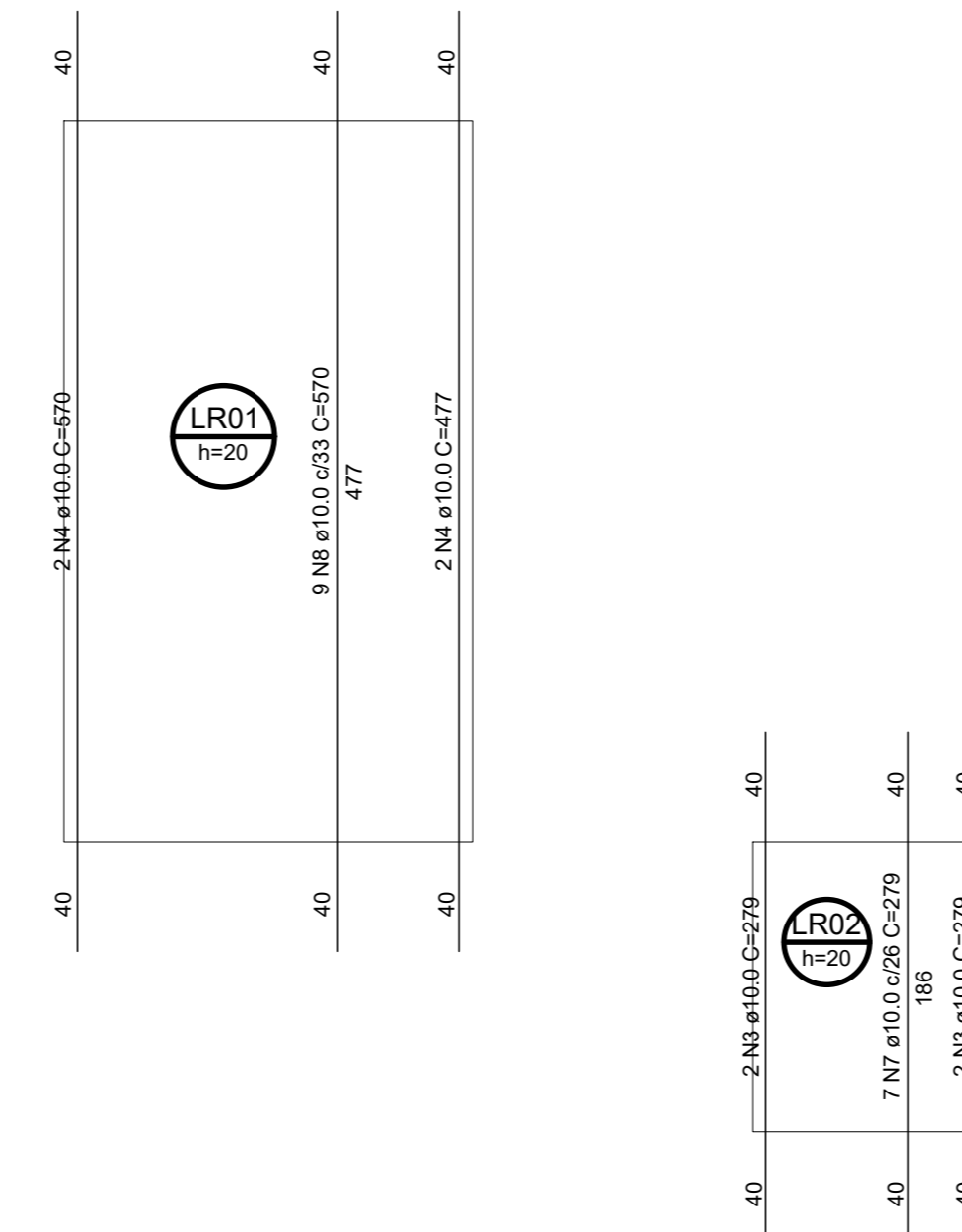
PROPRIETÁRIO

AUTOR DO PROJETO CREA: 21.401/D-DF

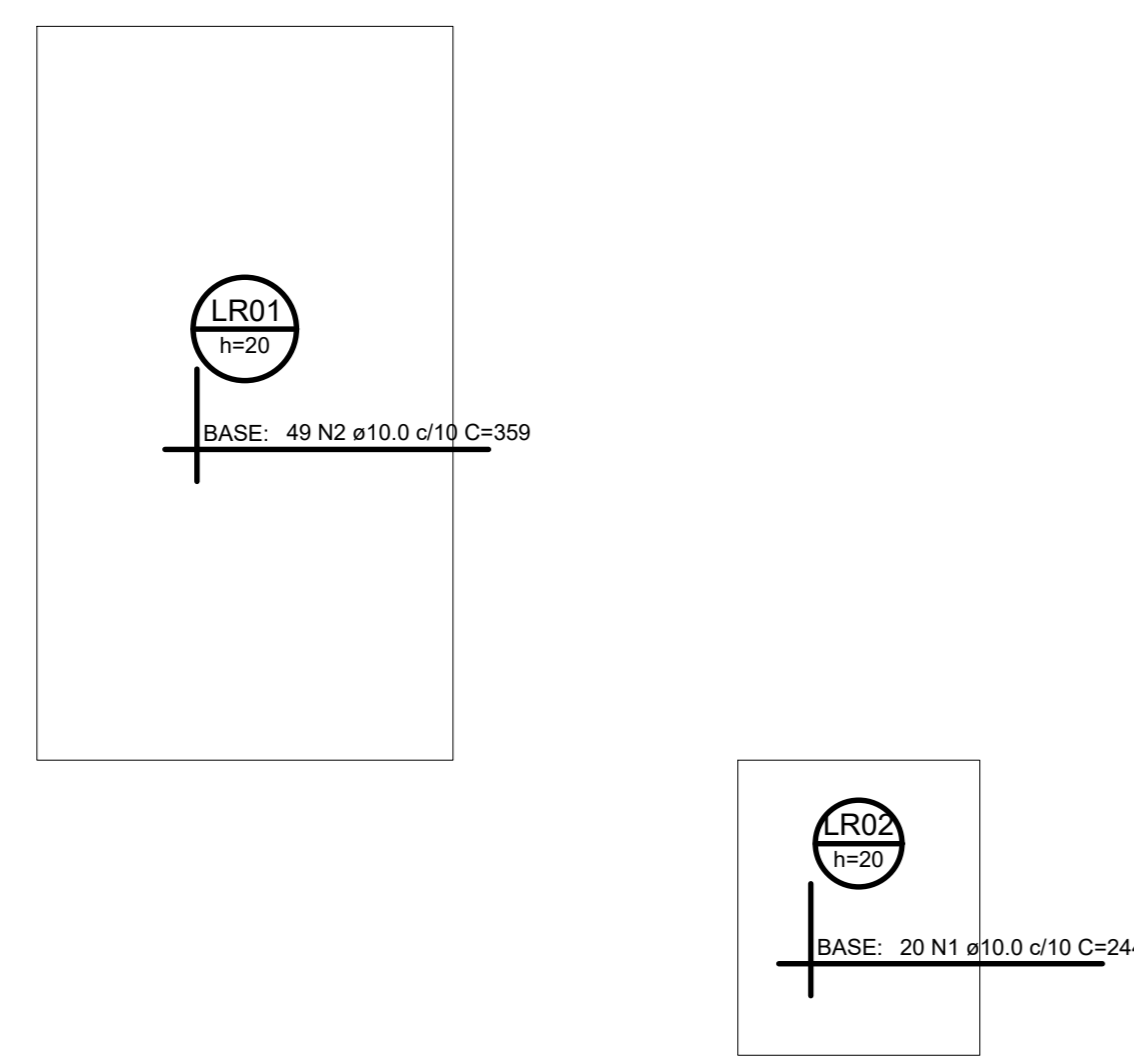
RESP. TÉCNICO



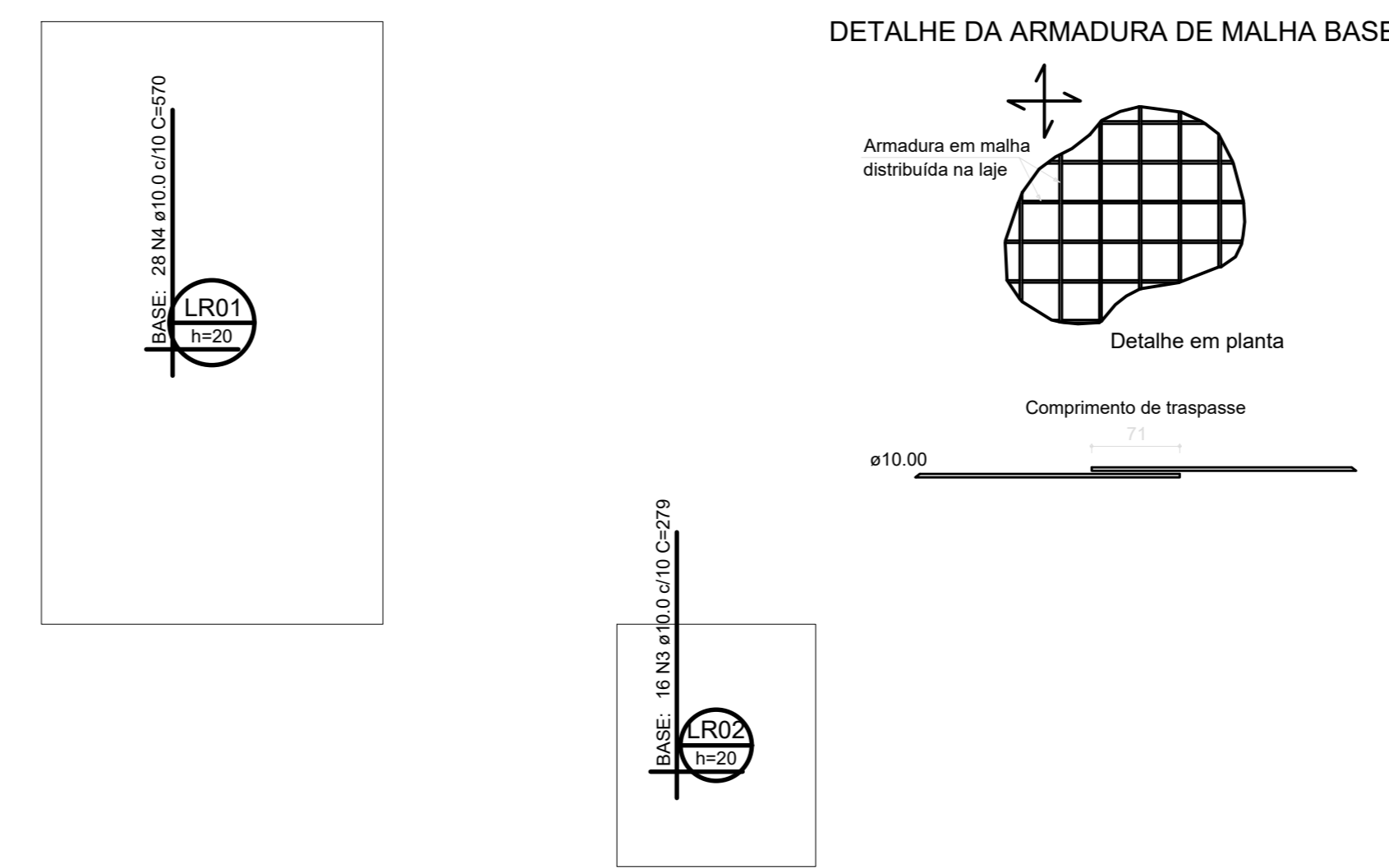
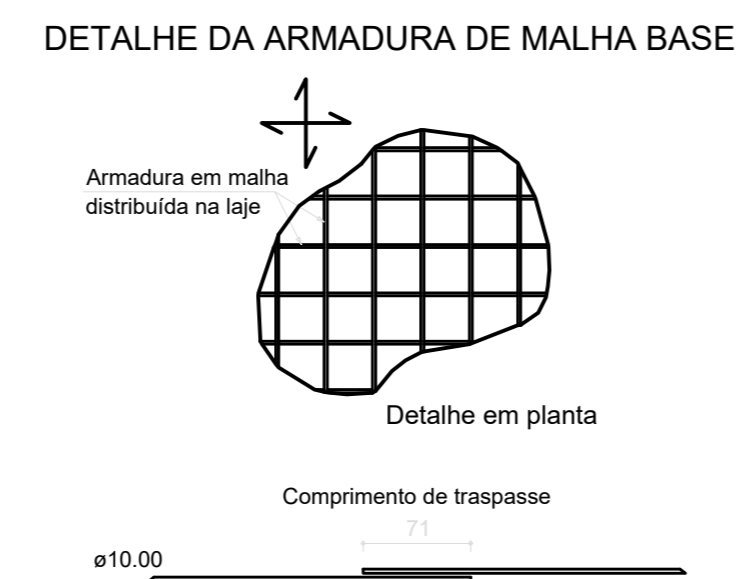
Armação Inferior de Fechamento de vão da Caixa de Escada e Poço do Elevador (Eixo X)  
escala 1:50



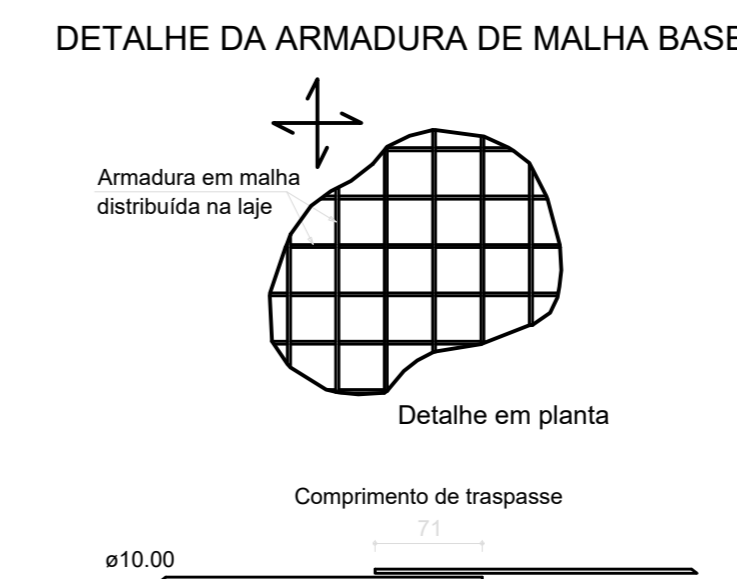
Armação de Fechamento de vão da Caixa de Escada e Poço do Elevador (Eixo Y)  
escala 1:50



Armação Superior de Fechamento de vão da Caixa de Escada e Poço do Elevador (Eixo X)  
escala 1:50



Armação Superior de Fechamento de vão da Caixa de Escada e Poço do Elevador (Eixo Y)  
escala 1:50



RELAÇÃO DO AÇO (Por pavimento)

ACQ	N	DIAM (mm)	QUANT	C. UNIT (mm)	C. TOTAL (mm)	PESO (kg)
CASO	1	10.0	24	244	5856	6956
	2	10.0	21	278	5838	6957
	3	10.0	20	278	5560	6594
	4	10.0	9	244	2196	2634
	5	10.0	19	278	5282	6301
	6	10.0	9	270	2430	2913
	7	10.0	7	278	1946	2335
	8	10.0	9	270	2430	2913

ACQ	DIAM (mm)	C. UNIT (mm)	PESO (kg)	PESO + 10% (kg)
CASO	10.0	244	6956	7651.6
PESO TOTAL			6956	7651.6
CASO	434.1			

Volume de concreto (C-40) = 3.29 m³  
Área de forma = 4.45 m²

NOTAS GERAIS:

1. Medidas e elevações em centímetros e bitolas de armadura em milímetros;
2. Os níveis estão referenciados ao Projeto Arquitetônico;
3. A Locação da obra deverá seguir o Projeto Arquitetônico;
4. O concreto utilizado para o reforço da laje deverá ter Fck, mínimo de 40,0 MPa, autoadensável ou com vibração mecânica;
5. As emendas da nova armadura a estrutura antiga devem ter comprimento mínimo de ancoragem de 40 cm, dentro da estrutura existente, podendo a barra ser emendada, respeitando o comprimento mínimo de trespassse de 71 cm.
6. Para garantir a aderência da ferragem, deverá ser utilizado produto específico (adesivo epoxi), conforme recomendação do fornecedor do produto.
7. Antes da concretagem o concreto antigo deverá receber tratamento, passando por processo de limpeza, apicoamento e após aplicação de produto inibidor de corrosão, com intuito de evitar a formação de junta fria.
8. Qualquer variação (anomalia) apresentada no durante a execução, deverá ser comunicada ao projetista imediatamente;
9. Qualquer alteração do Projeto Estrutural sem autorização prévia do autor, exime este de qualquer responsabilidade;

Revisões da prancha			
-			
-			
-			
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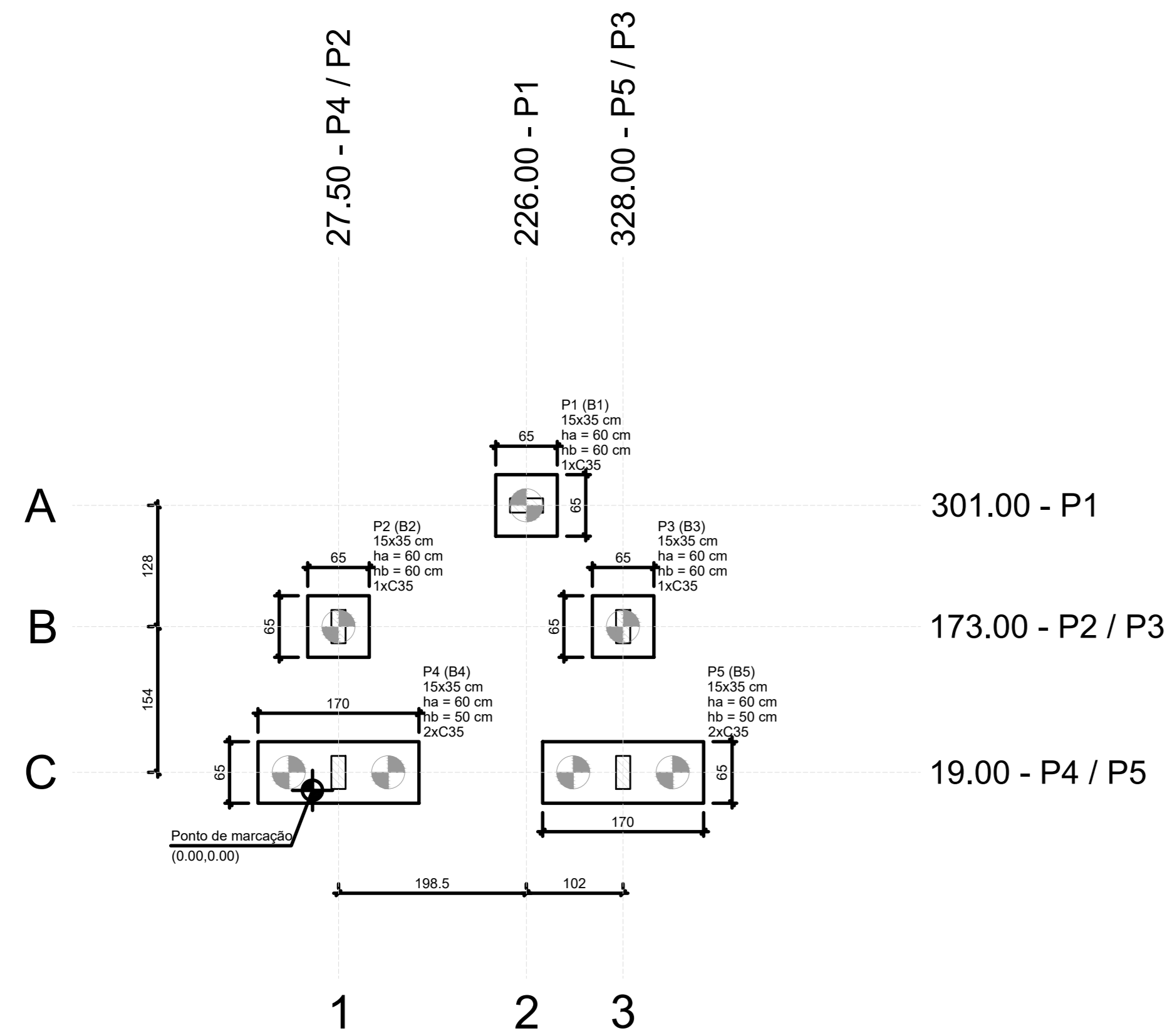
Emissão Inicial LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

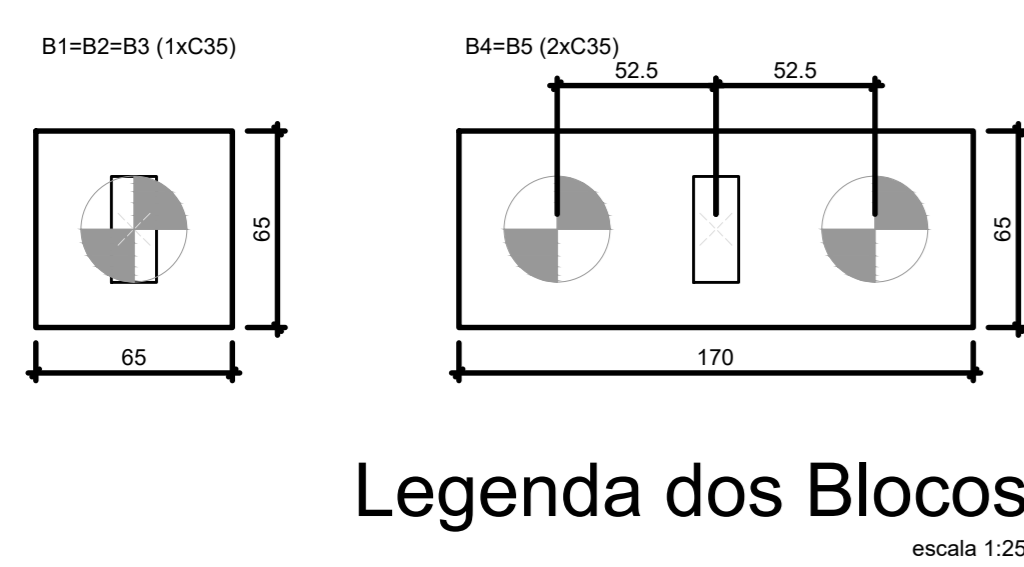
PROPRIETÁRIO

AUTOR DO PROJETO CREA: 21.401/D-DF

RESP. TÉCNICO



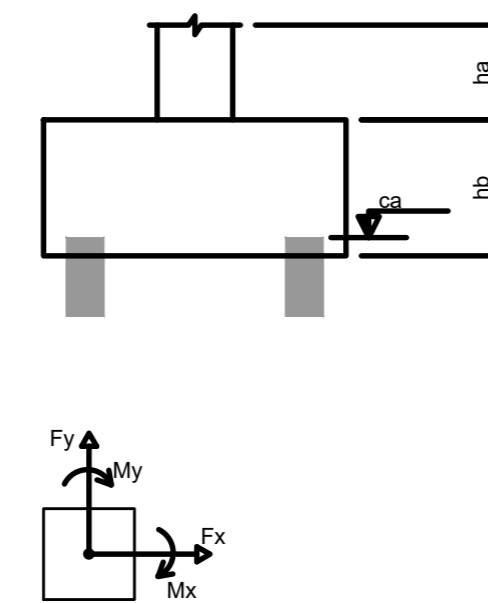
Planta de Locação  
escala 1:50



Legenda dos Blocos  
escala 1:25

Nome	Seção	X (cm)	Y (cm)	Carga Máx. (t)	Carga Mín. (t)	Pilar				Fundação				Bloco	ne	Estaca	ca	Base tub. (cm)		
						Mx Máximo (kgf.m)	My Máximo (kgf.m)	Fx Máximo (t)	Fy Máximo (t)	Nome	Lado B	Lado H	H0 / ha						h1 / hb	
P1	15x35	27.50	307.00	-3.7	3.2	100	0	100	-7.0	6.4	0.0	0.3	0.0	B1	60	60	60	1	C35	-105
P2	15x35	27.50	173.00	7.2	6.0	200	-300	0	-400	6.0	-0.9	0.0	-0.8	B2	65	65	60	1	C35	-105
P3	15x35	328.00	173.00	4.8	4.0	200	-300	200	0	0.7	0.0	0.2	-0.1	B3	65	65	60	1	C35	-105
P4	15x35	27.50	19.00	4.0	3.0	0	-500	0	-300	0.0	-1.2	0.5	0.0	B4	170	65	60	2	C35	-95
P5	15x35	328.00	19.00	4.4	3.3	200	-300	200	0	1.2	0.0	0.2	-0.2	B5	170	65	60	2	C35	-95

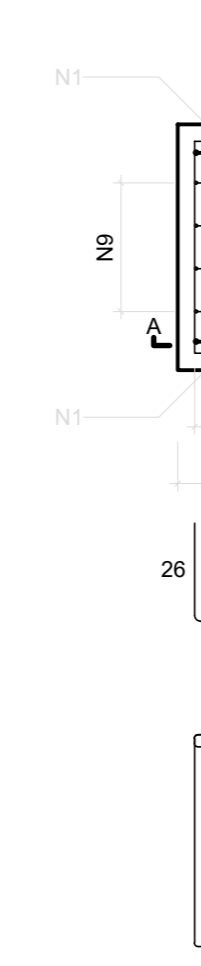
Estacas	Nome	d (cm)	Quantidade
	C35	35.00	7



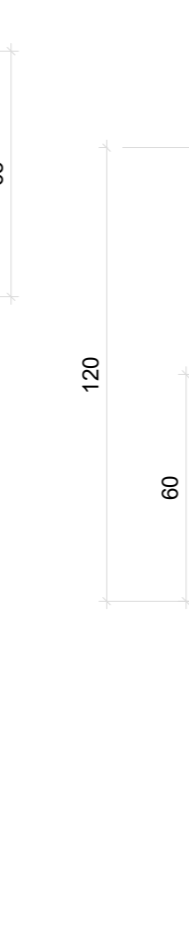
B1  
1x35  
PLANTA  
ESC 1:20



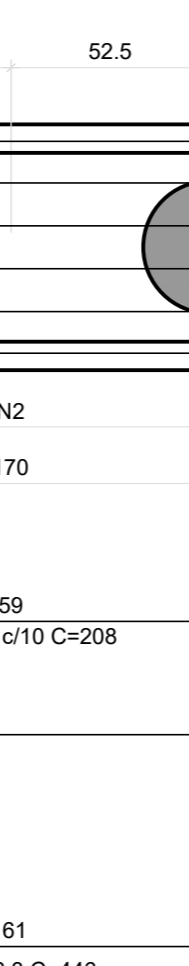
B4=B5  
2x35  
PLANTA  
ESC 1:20



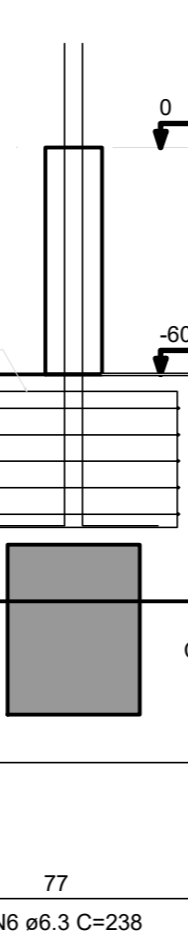
CORTE  
ESC 1:20



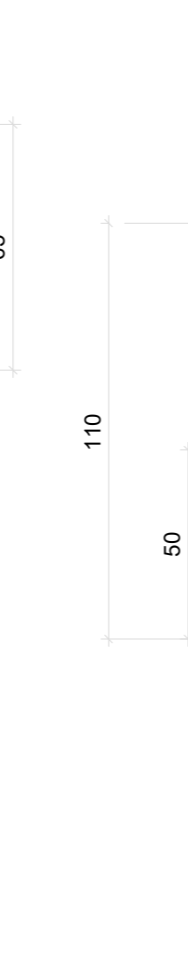
CORTE A-A  
ESC 1:20



P1=P2=P3  
VISTA A  
ESC 1:25



CORTE B-B  
ESC 1:20



P4=P5  
VISTA A  
ESC 1:25



VISTA B  
ESC 1:25



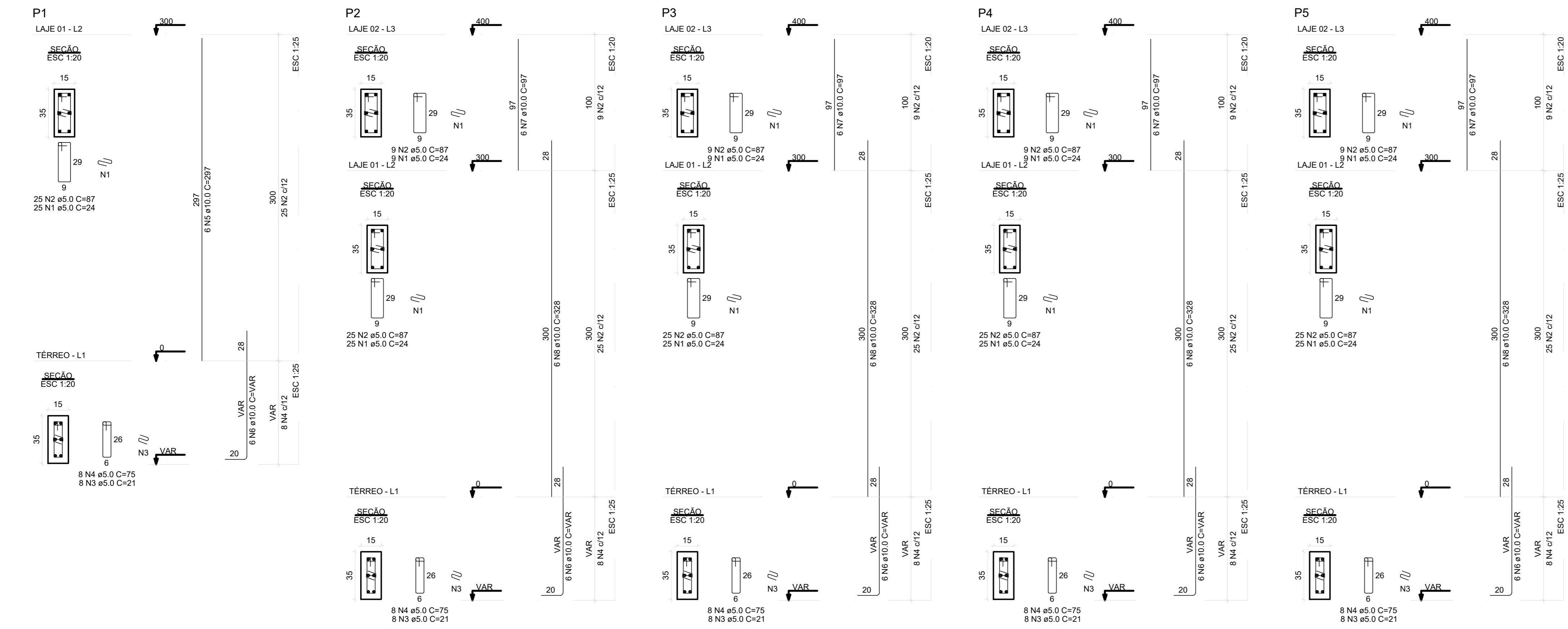
Localização no eixo X		Localização no eixo Y	
Coordenadas (cm)	Nome	Coordenadas (cm)	Nome
27.50	P2, P4	307.00	P1
226.00	P1	173.00	P2, P3
328.00	P3, P5	19.00	P4, P5

RELAÇÃO DO AÇO - Armadura dos Blocos de Concreto

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	258	151	450
CASO 2	2	8.0	150	151	299
PESO TOTAL (kg)					
CASO 1					1438
CASO 2					820
Volume de concreto (C-35) = 11.45 m³					
Volume de concreto (C-40) = 0.50 m³					
Área de forma = 14.43 m²					

RELAÇÃO DO AÇO - Armadura dos Blocos de Concreto

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	107	151	230
CASO 2	2	8.0	42	151	79
PESO TOTAL (kg)					
CASO 1					505
CASO 2					123
Volume de concreto (C-30) = 1.70 m³					
Volume de concreto (C-40) = 0.50 m³					
Área de forma = 14.43 m²					



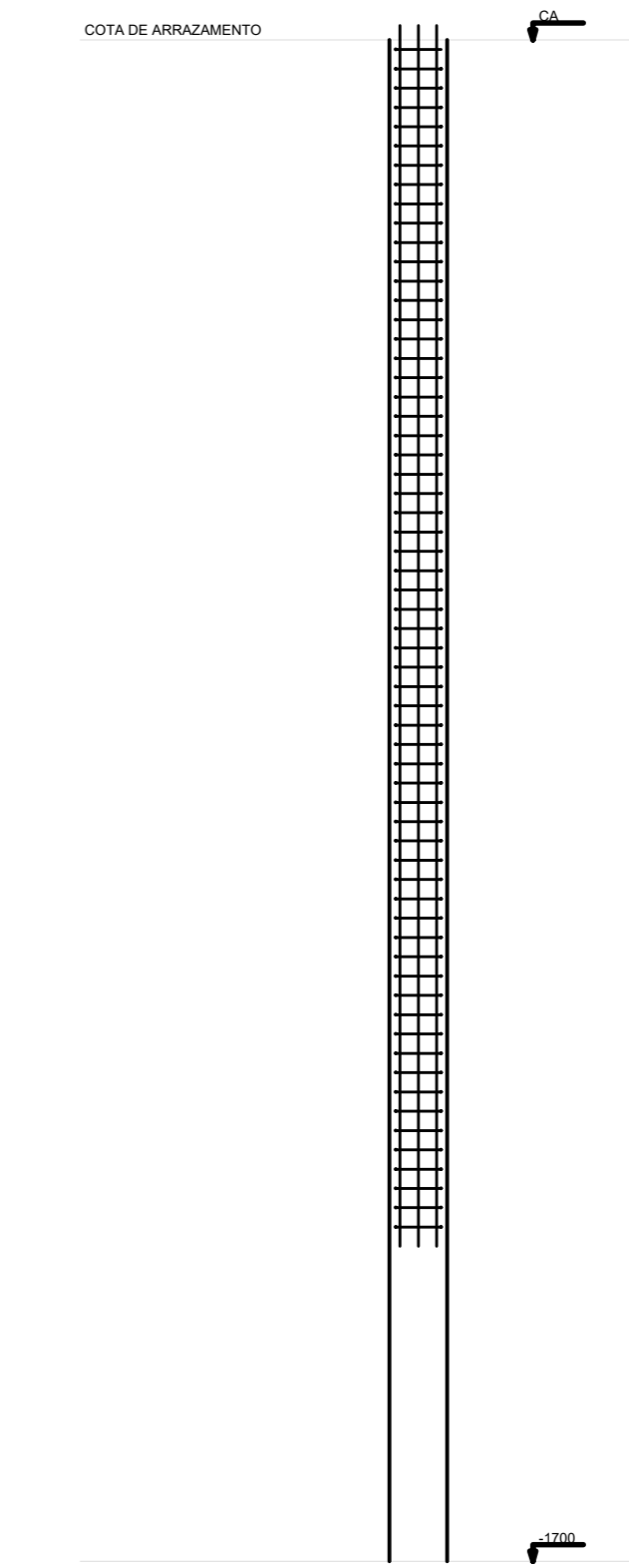
RELAÇÃO DO AÇO - Armadura dos Blocos de Concreto

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	181	151	304
CASO 2	2	8.0	169	151	284
PESO TOTAL (kg)					
CASO 1					1161
CASO 2					86.8
Volume de concreto (C-40) = 1.10 m³					
Área de forma = 23.75 m²					

RELAÇÃO DO AÇO - Armadura dos Blocos de Concreto

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	107	151	230
CASO 2	2	8.0	42	151	79
PESO TOTAL (kg)					
CASO 1					505
CASO 2					123
Volume de concreto (C-40) = 1.10 m³					
Área de forma = 23.75 m²					

P1 ao P5 (7 UNIDADES)



RELAÇÃO DO AÇO - Estacas

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	552	150	8478.0
CASO 2	2	8.0	98	150	8728.0
PESO TOTAL (kg)					
CASO 1					42396
CASO 2					2911.2
Volume de concreto (C-25) = 11.45 m³					

RELAÇÃO DO AÇO - Estacas

ACQ	N	DIAM (mm)	QUANT	C (cm)	C TOTAL (cm)
CASO 1	1	8.0	552	150	8478.0
CASO 2	2	8.0	98	150	8728.0
PESO TOTAL (kg)					
CASO 1					42396
CASO 2					2911.2
Volume de concreto (C-25) = 11.45 m³					

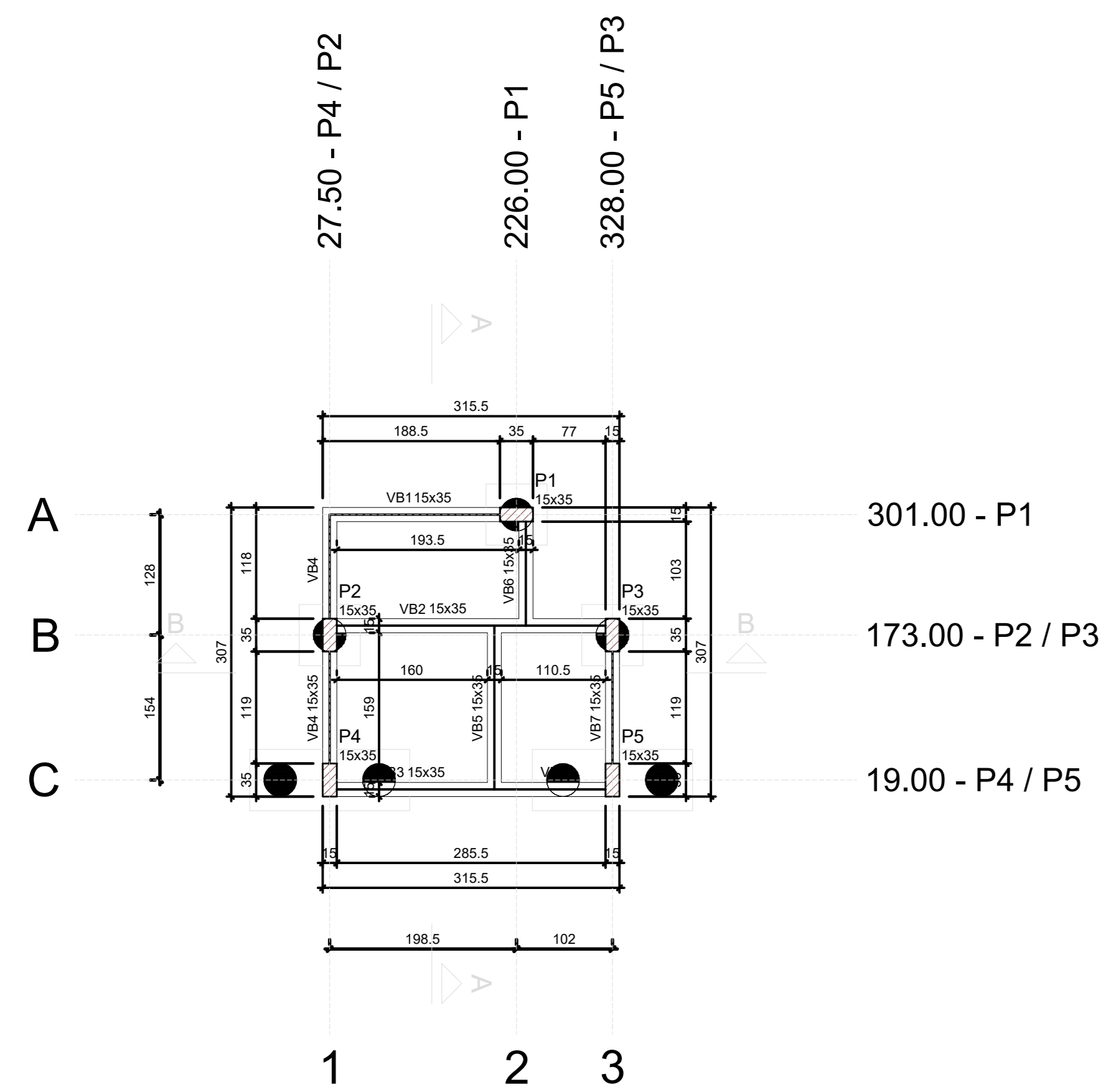
OBSERVAÇÃO:

Para as estacas da Guarita, a ferragem deverá ser executada até os 12 metros a partir da cota de arrastamento e o concreto até os 17 metros de profundidade a partir da cota de arrastamento.

Revisões da prancha	
1	
2	
3	
4	
5	
Emissão Inicial	
	LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO  
 AUTOR DO PROJETO CREA: 21.401/D-DF  
 RESP. TÉCNICO



Forma do Pavimento Térreo (Nível 0)  
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x35	0	0
VB2	15x35	0	0
VB3	15x35	0	0
VB4	15x35	0	0
VB5	15x35	0	0
VB6	15x35	0	0
VB7	15x35	0	0

Características dos materiais			
Elemento	Sigla	Ecc (kg/cm³)	Fcc (kgf/cm²)
Vigas	400	218758	
Placas	400	318758	
Alçofões	300	208384	

Dimensão máxima do agregado = 19 mm

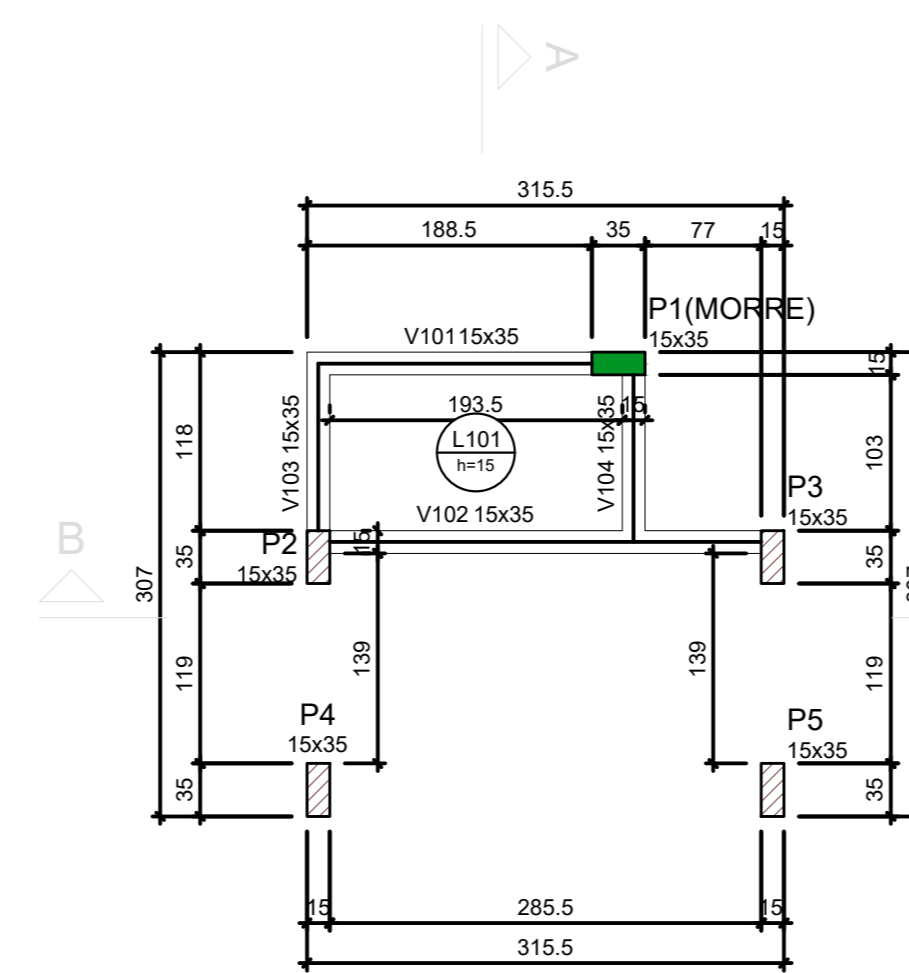
Placas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x35	0	0
P2	15x35	0	0
P3	15x35	0	0
P4	15x35	0	0
P5	15x35	0	0

Legenda dos pilares

▬ Pilar que passa

Legenda das vigas e paredes

▬ Viga



Forma do Pavimento Laje 01 (Nível 300)  
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V101	15x35	0	300
V102	15x35	0	300
V103	15x35	0	300
V104	15x35	0	300

Lajes								
Nome	Tipo	Altura (cm)	Esp. (cm)	Nível (cm)	Sobrecarga (kgf/m²)			
					Adicional	Acidental		
L101	Massa	15	0	300	375	182	150	-

Características dos materiais	
Sigla	Ecc (kg/cm³)
400	318758

Dimensão máxima do agregado = 19 mm

Placas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x35	0	300
P2	15x35	0	300
P3	15x35	0	300
P4	15x35	0	300
P5	15x35	0	300

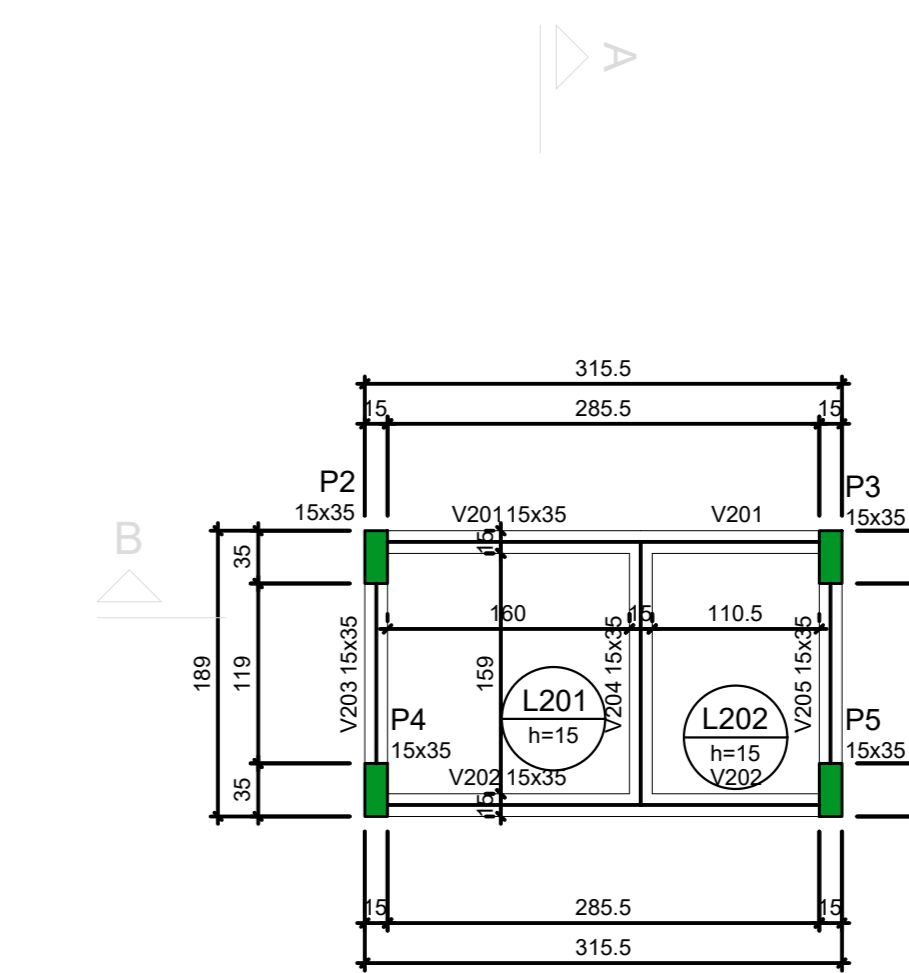
Legenda dos pilares

▬ Pilar que morre

▬ Pilar que passa

Legenda das vigas e paredes

▬ Viga



Forma do Pavimento Laje 02 (Nível 400)  
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V201	15x35	0	400
V202	15x35	0	400
V203	15x35	0	400
V204	15x35	0	400
V205	15x35	0	400

Lajes								
Nome	Tipo	Altura (cm)	Esp. (cm)	Nível (cm)	Sobrecarga (kgf/m²)			
					Adicional	Acidental		
L201	Massa	15	0	400	375	182	150	-
L202	Massa	15	0	400	375	182	150	-

Características dos materiais	
Sigla	Ecc (kg/cm³)
400	318758

Dimensão máxima do agregado = 19 mm

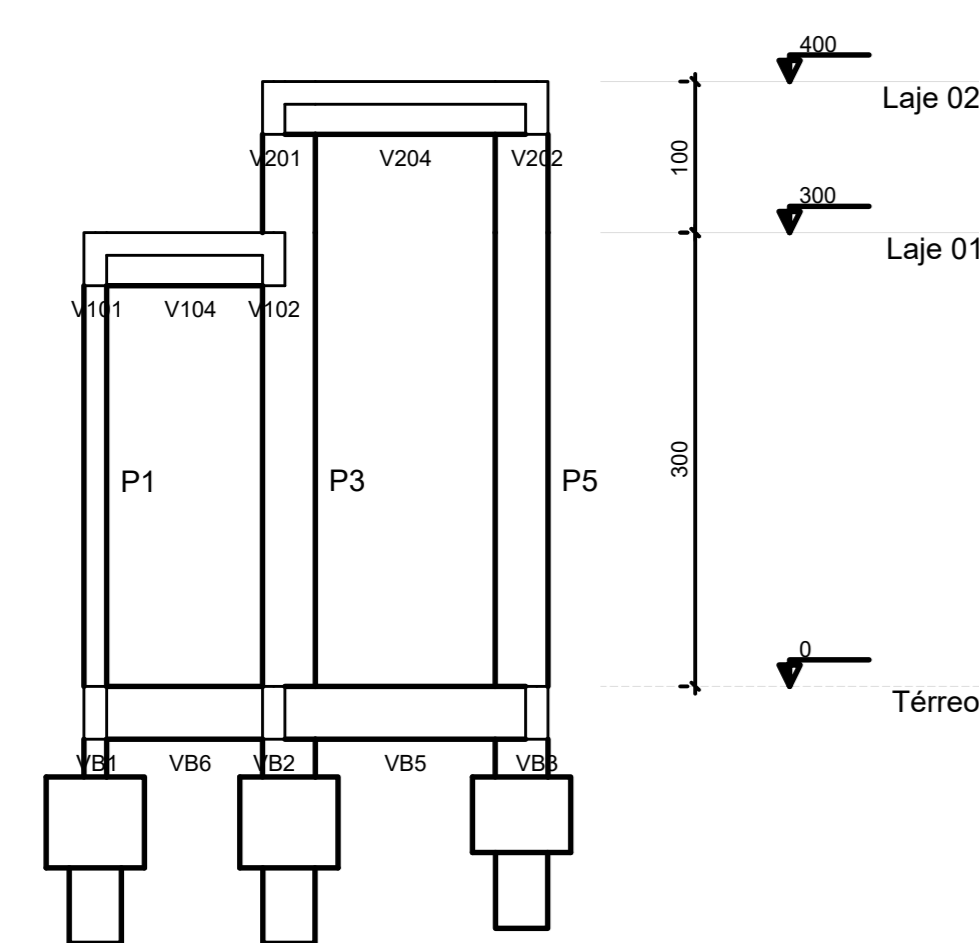
Placas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P2	15x35	0	400
P3	15x35	0	400
P4	15x35	0	400
P5	15x35	0	400

Legenda dos pilares

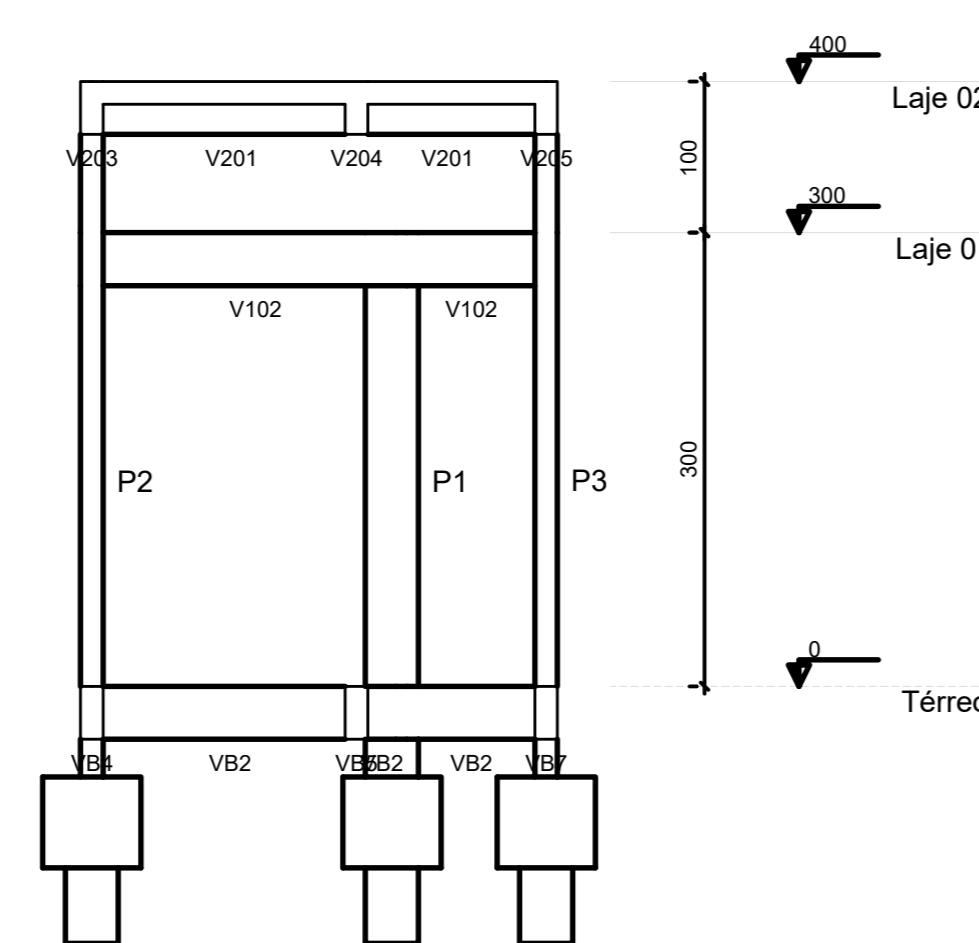
▬ Pilar que morre

Legenda das vigas e paredes

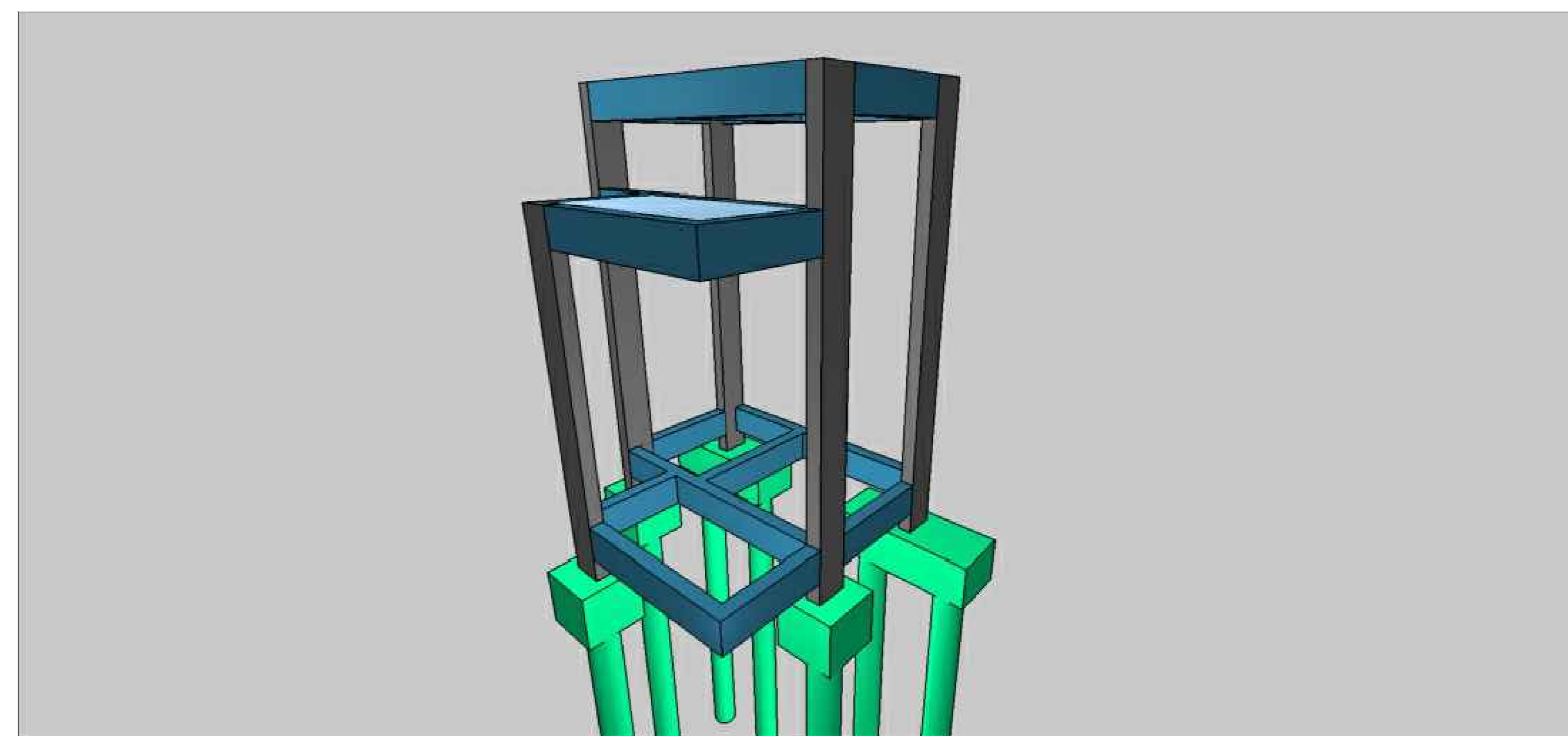
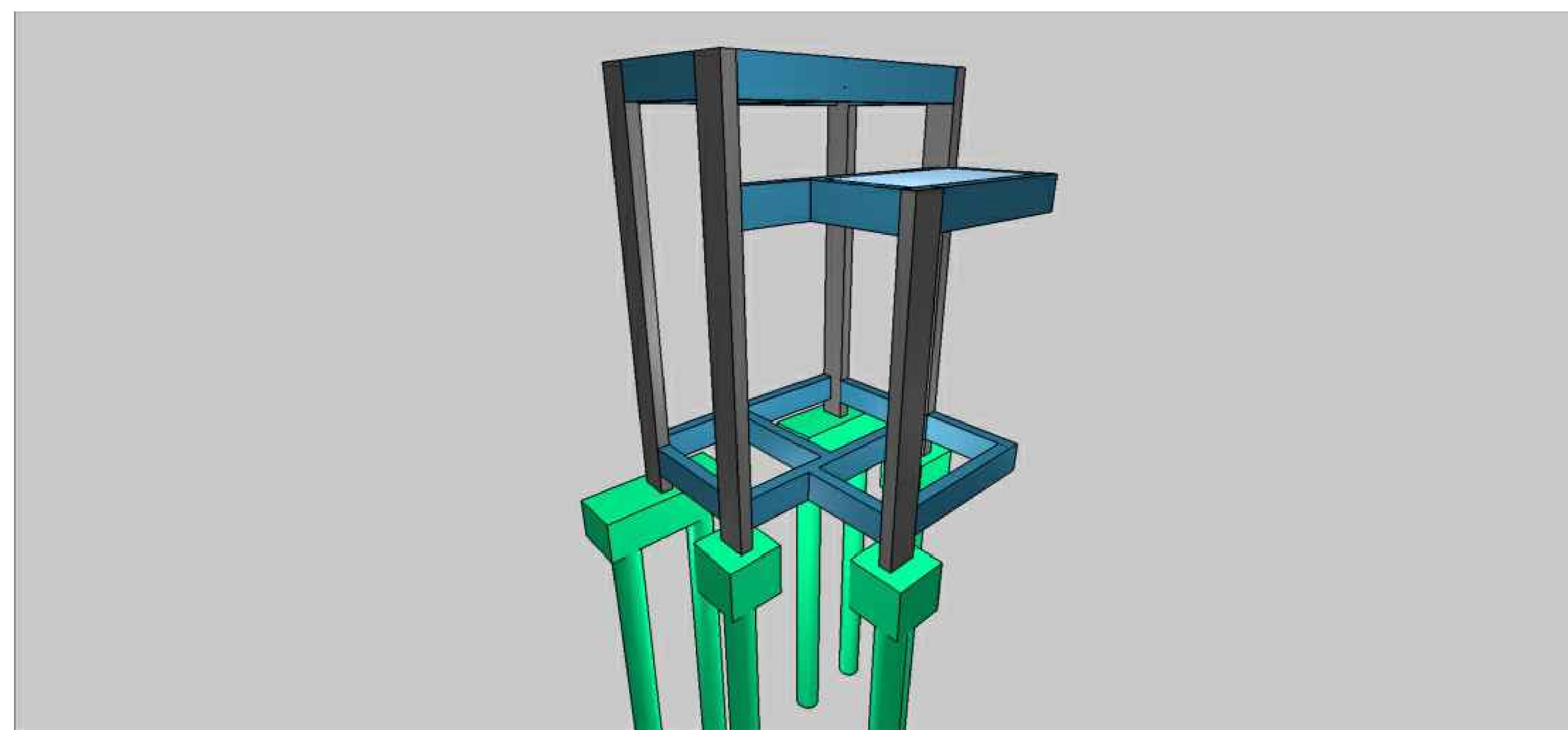
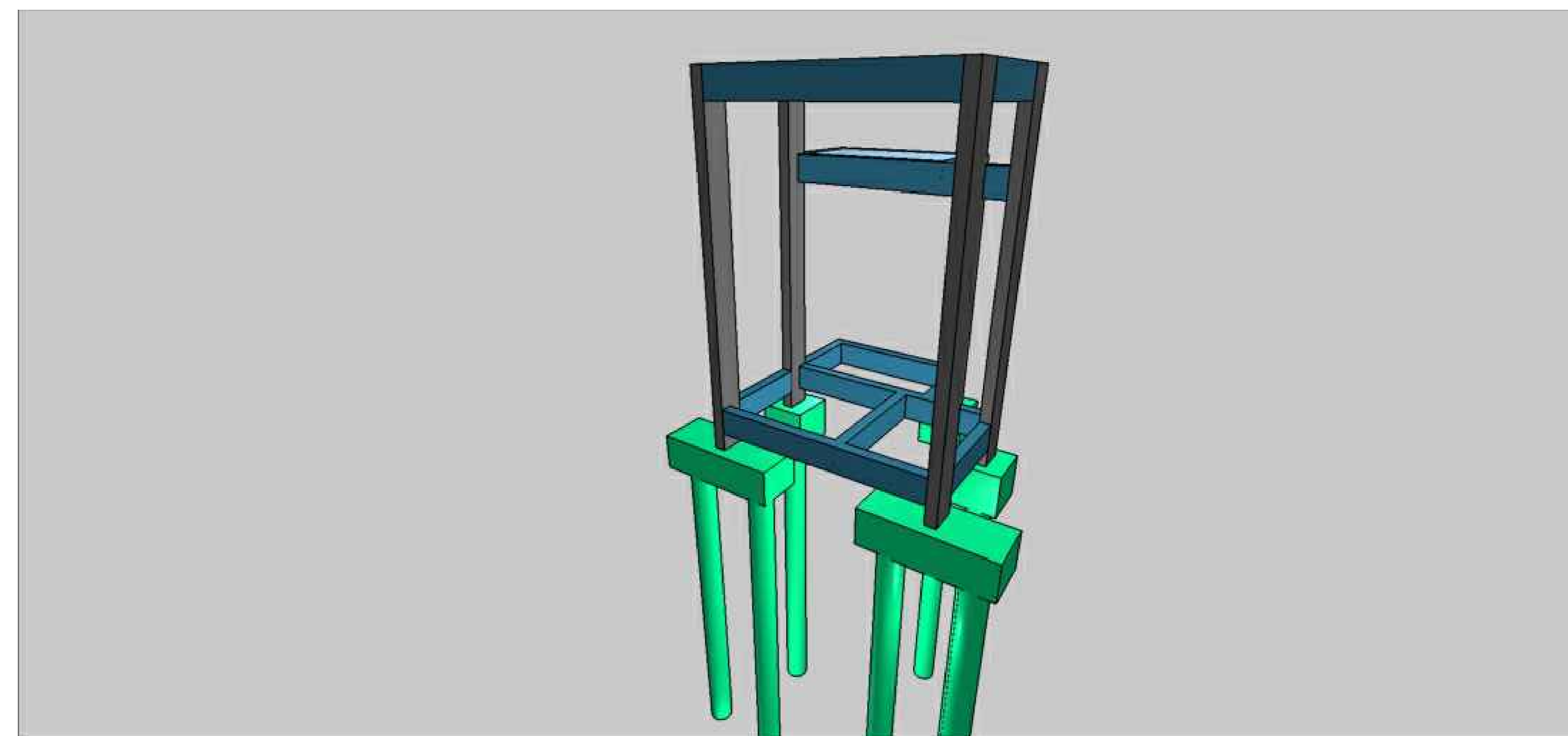
▬ Viga



Corte A-A  
escala 1:50



Corte B-B  
escala 1:50



Revisões da prancha	

Emissão Inicial: LUIS F. 22/06/2022

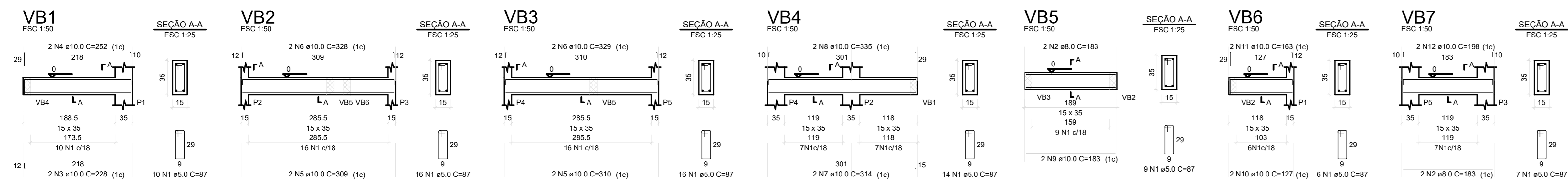
SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO CREA: 21.401/D-DF

RESP. TÉCNICO

PROJETO ESTRUTURAL		Prancha: ESTRUTURA
USO: INSTITUCIONAL	FATOR A/C < 0.60	83/84
CONCRETO: Fck = 40 MPa	CONCRETO CLASSE C40	
Conteúdo: FORMAS DA GUARITA		
Data: 22/06/2022	Á. Lote: 2.000,00m²	Escala: 1:50



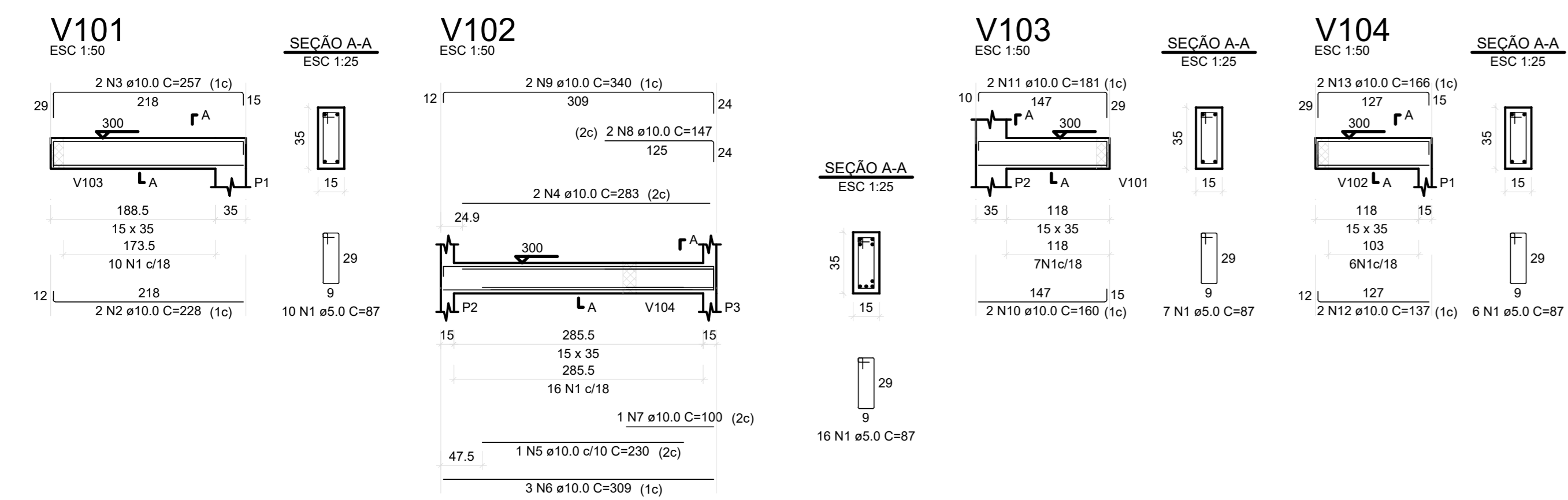
RELAÇÃO DO AÇO - Armadura das Vigas de Laje 01 de Guarita

ACAO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CABO	1	9,0	38	87	6786
CABO	2	9,0	38	87	6786
CABO	3	9,0	38	87	6786
CABO	4	9,0	38	87	6786
CABO	5	9,0	38	87	6786
CABO	6	9,0	38	87	6786
CABO	7	9,0	38	87	6786
CABO	8	9,0	38	87	6786
CABO	9	9,0	38	87	6786
CABO	10	9,0	38	87	6786
CABO	11	9,0	38	87	6786
CABO	12	9,0	38	87	6786

RESUMO DO AÇO

ACAO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2

Volume de concreto (C-40) = 0,72 m³  
Área da forma = 14,22 m²



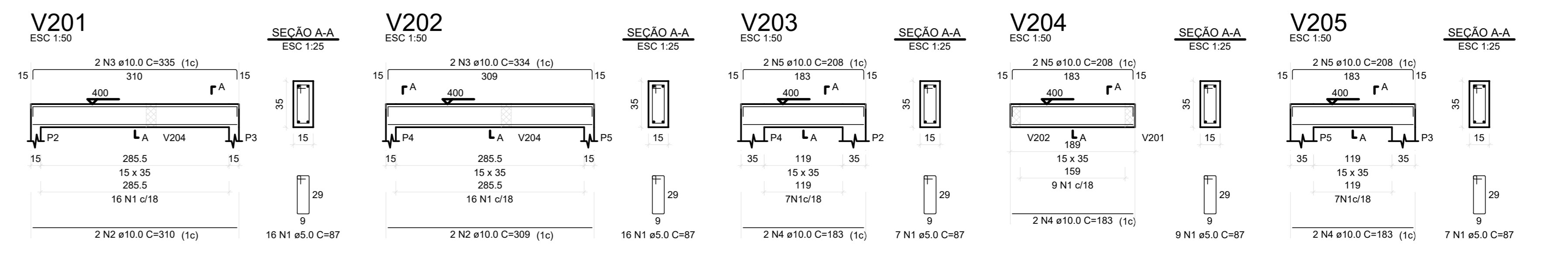
RELAÇÃO DO AÇO - Armadura das Vigas de Laje 01 de Guarita

ACAO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CABO	1	9,0	38	87	6786
CABO	2	10,0	2	238	476
CABO	3	10,0	2	238	476
CABO	4	10,0	2	238	476
CABO	5	10,0	2	238	476
CABO	6	10,0	2	238	476
CABO	7	10,0	2	238	476
CABO	8	10,0	2	238	476
CABO	9	10,0	2	238	476
CABO	10	10,0	2	238	476
CABO	11	10,0	2	238	476
CABO	12	10,0	2	238	476
CABO	13	10,0	2	238	476

RESUMO DO AÇO

ACAO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CABO	9,0	6786	8,2
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3
CABO	10,0	476	0,3

Volume de concreto (C-40) = 0,36 m³  
Área da forma = 7,91 m²



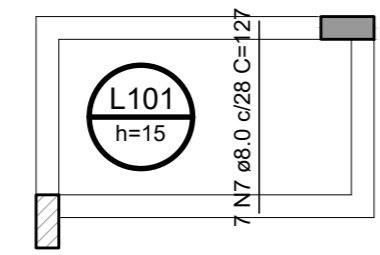
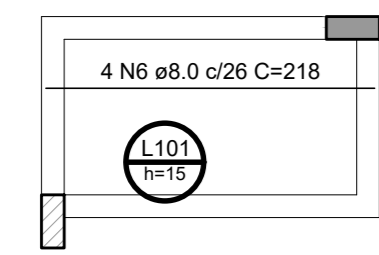
RELAÇÃO DO AÇO - Armadura das Vigas de Laje 02 de Guarita

ACAO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CABO	1	9,0	38	87	6786
CABO	2	10,0	4	119	1190
CABO	3	10,0	4	119	1190
CABO	4	10,0	4	119	1190
CABO	5	10,0	4	119	1190
CABO	6	10,0	4	119	1190
CABO	7	10,0	4	119	1190
CABO	8	10,0	4	119	1190
CABO	9	10,0	4	119	1190
CABO	10	10,0	4	119	1190
CABO	11	10,0	4	119	1190
CABO	12	10,0	4	119	1190

RESUMO DO AÇO

ACAO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CABO	9,0	6786	8,2
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3
CABO	10,0	1190	0,3

Volume de concreto (C-40) = 0,51 m³  
Área da forma = 10,18 m²



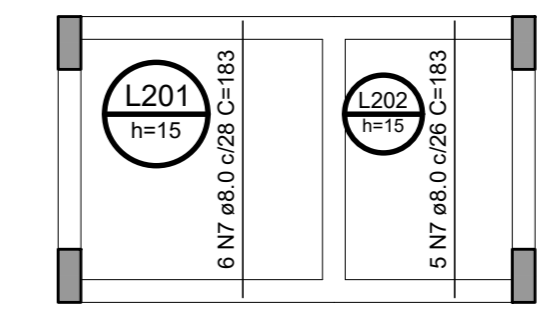
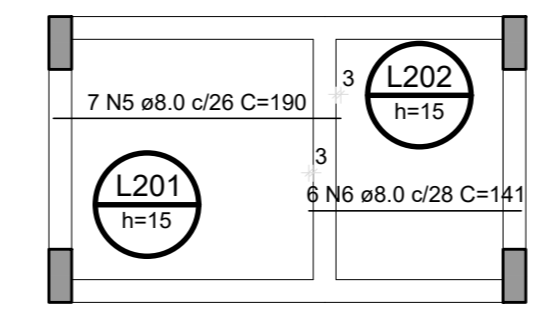
RELAÇÃO DO AÇO - Armadura das Lajes de Laje 01 de Guarita

ACAO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CABO	1	9,0	38	87	6786
CABO	2	9,0	38	87	6786
CABO	3	9,0	38	87	6786
CABO	4	9,0	38	87	6786
CABO	5	9,0	38	87	6786
CABO	6	9,0	38	87	6786
CABO	7	9,0	38	87	6786
CABO	8	9,0	38	87	6786
CABO	9	9,0	38	87	6786
CABO	10	9,0	38	87	6786
CABO	11	9,0	38	87	6786
CABO	12	9,0	38	87	6786

RESUMO DO AÇO

ACAO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2

Volume de concreto (C-40) = 0,30 m³  
Área da forma = 2,00 m²



RELAÇÃO DO AÇO - Armadura das Lajes de Laje 02 de Guarita

ACAO	N	DIAM (mm)	QUANT	C.UNIT (mm)	C.TOTAL (mm)
CABO	1	9,0	38	87	6786
CABO	2	9,0	38	87	6786
CABO	3	9,0	38	87	6786
CABO	4	9,0	38	87	6786
CABO	5	9,0	38	87	6786
CABO	6	9,0	38	87	6786
CABO	7	9,0	38	87	6786
CABO	8	9,0	38	87	6786
CABO	9	9,0	38	87	6786
CABO	10	9,0	38	87	6786
CABO	11	9,0	38	87	6786
CABO	12	9,0	38	87	6786

RESUMO DO AÇO

ACAO	DIAM (mm)	C.TOTAL (mm)	PESO + 10% (kg)
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2
CABO	9,0	6786	8,2

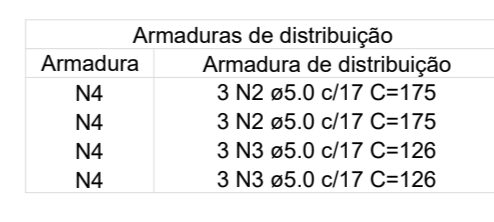
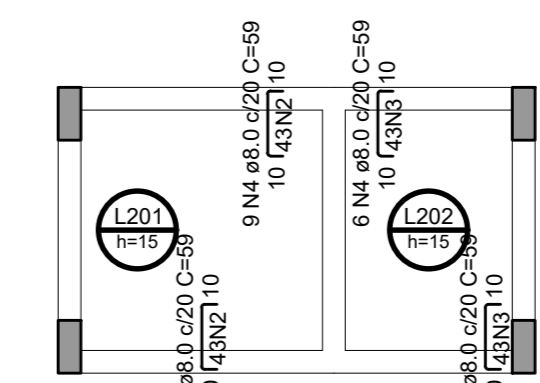
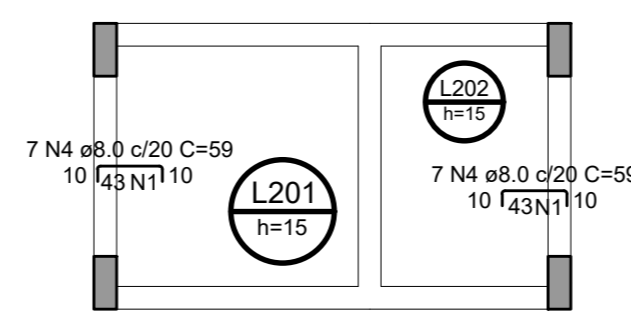
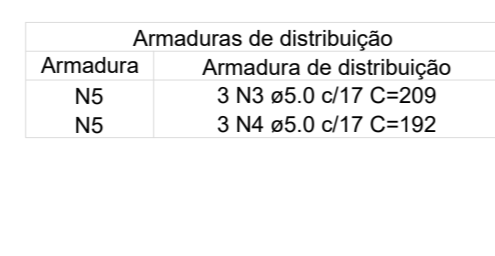
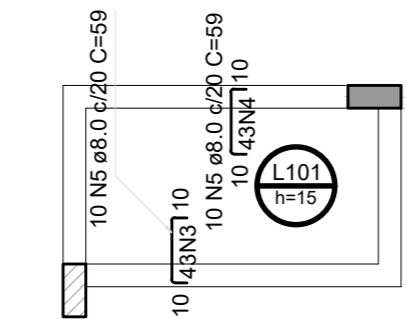
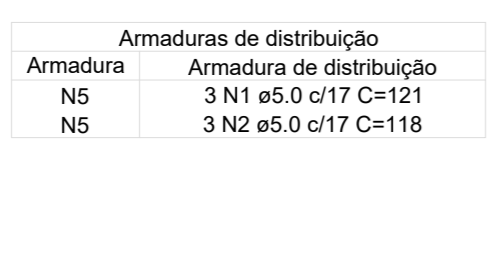
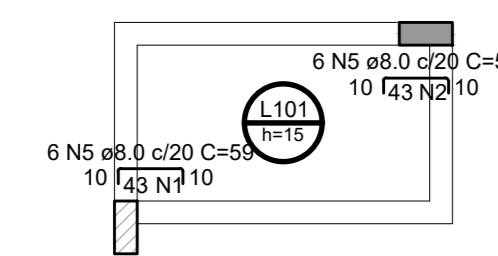
Volume de concreto (C-40) = 0,55 m³  
Área da forma = 4,35 m²

Armação Positiva das Lajes do Pavimento Laje 01 (Eixo X) escala 1:50

Armação Positiva das Lajes do Pavimento Laje 01 (Eixo Y) escala 1:50

Armação Positiva das Lajes do Pavimento Laje 02 (Eixo X) escala 1:50

Armação Positiva das Lajes do Pavimento Laje 02 (Eixo Y) escala 1:50

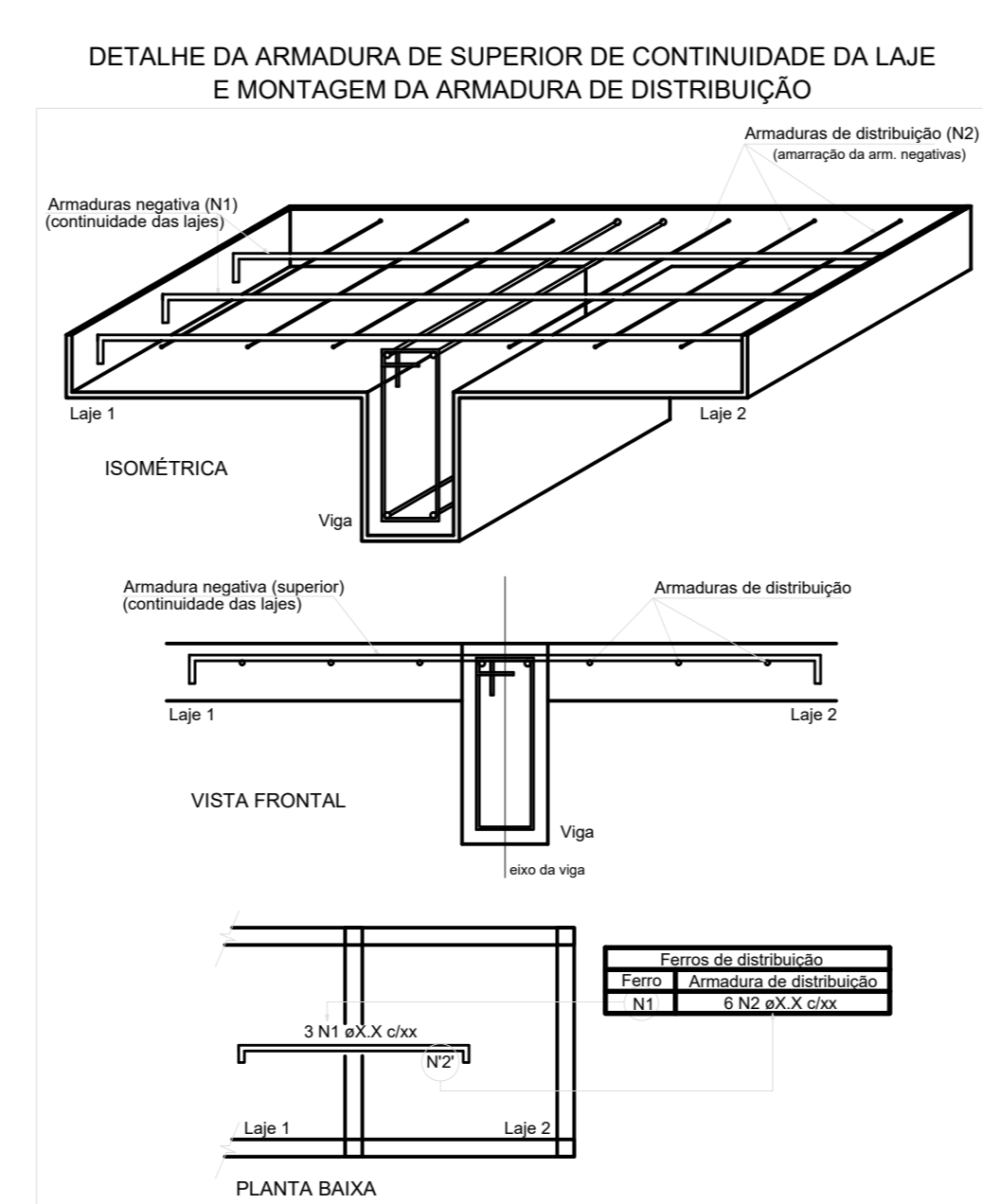
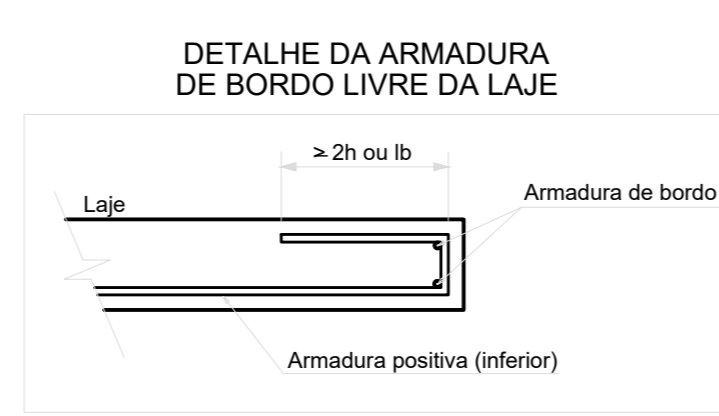


Armação Negativa das Lajes do Pavimento Laje 01 (Eixo X) escala 1:50

Armação Negativa das Lajes do Pavimento Laje 01 (Eixo Y) escala 1:50

Armação Negativa das Lajes do Pavimento Laje 02 (Eixo X) escala 1:50

Armação Negativa das Lajes do Pavimento Laje 02 (Eixo Y) escala 1:50



Revisões da prancha

Nº	Descrição	Data

Emissão Inicial: LUIS F. 22/06/2022

SETOR: REGIÃO ADMINISTRATIVA SIA  
 ENDEREÇO: SIA, TRECHO 06, LOTES 130/140 - BRASÍLIA-DF  
 PROPRIETÁRIO: CONSELHO FEDERAL DE MEDICINA VETERINÁRIA  
 AUTOR DO PROJETO: LUIS FERNANDO ROCHA LOPES  
 RESP. TÉCNICO:

PROPRIETÁRIO: \_\_\_\_\_  
 AUTOR DO PROJETO: \_\_\_\_\_ CREA: 21.401/D-DF  
 RESP. TÉCNICO: \_\_\_\_\_