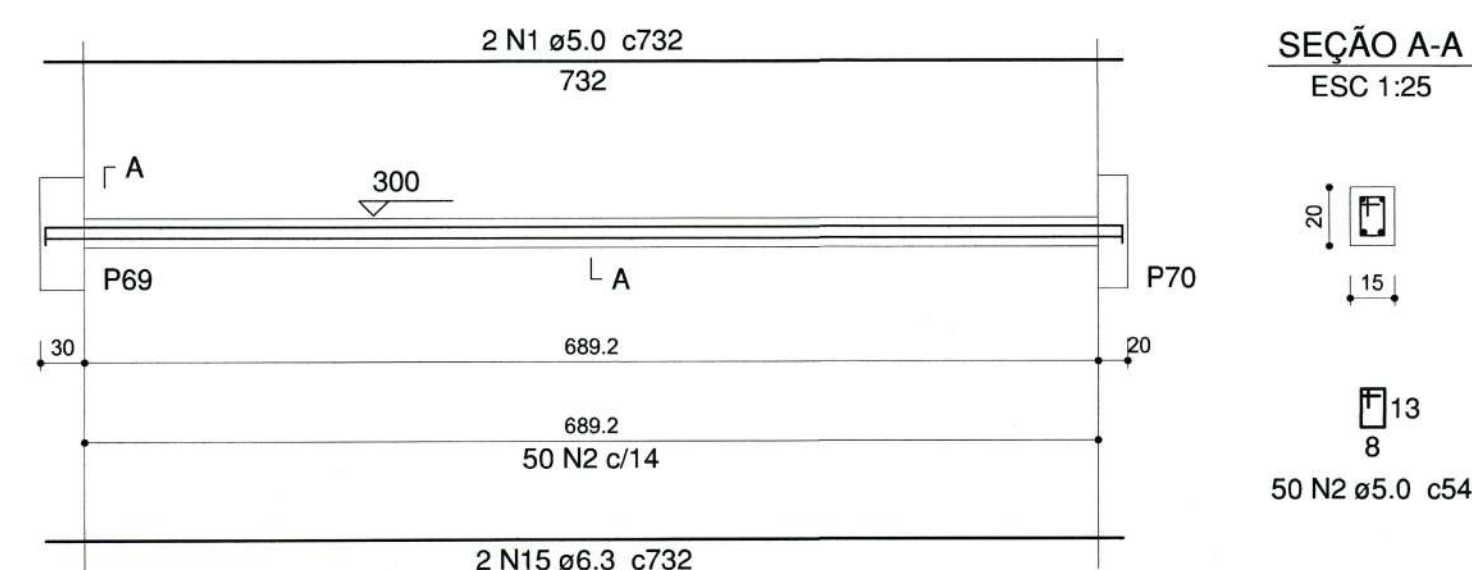


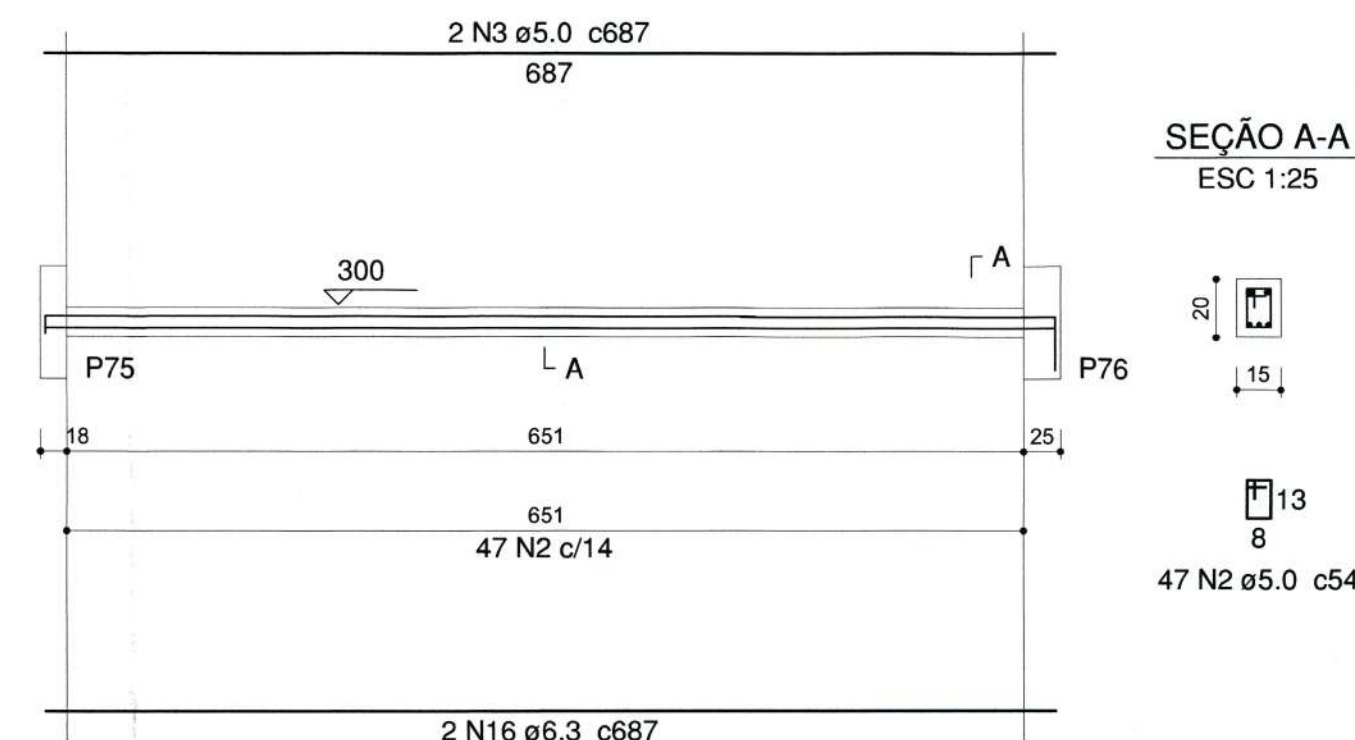
VERGA.16 (15 x 20)

ESC 1:50



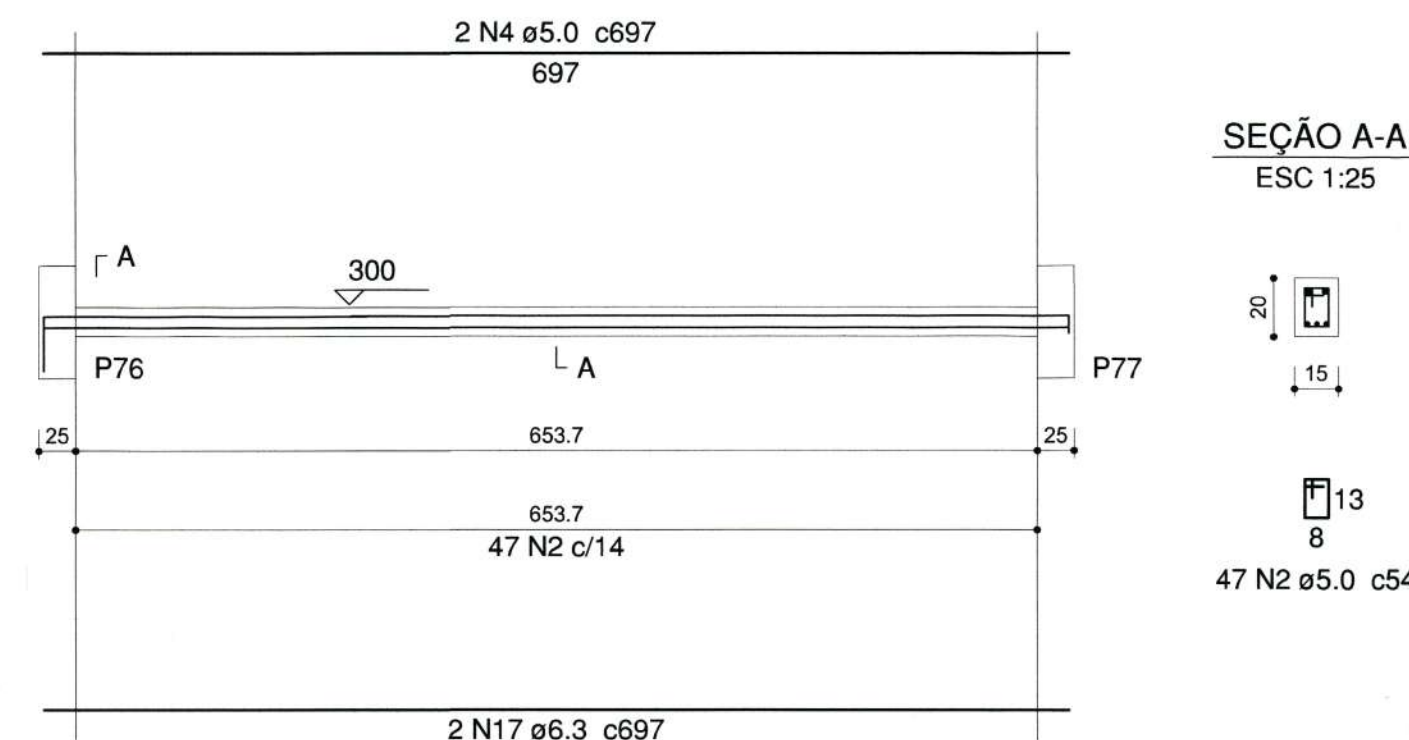
VERGA.17 (15 x 20)

ESC 1:50



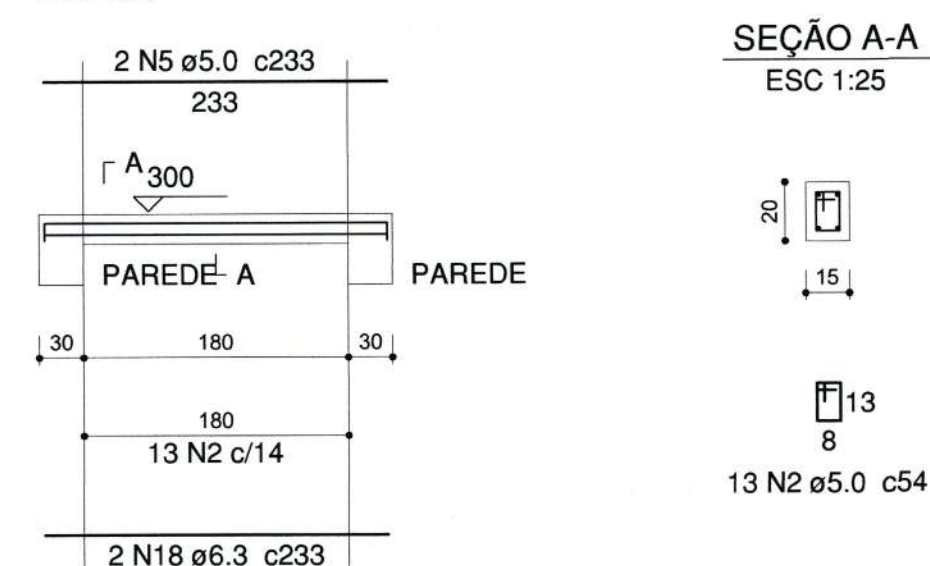
VERGA.18 (15 x 20)

ESC 1:50



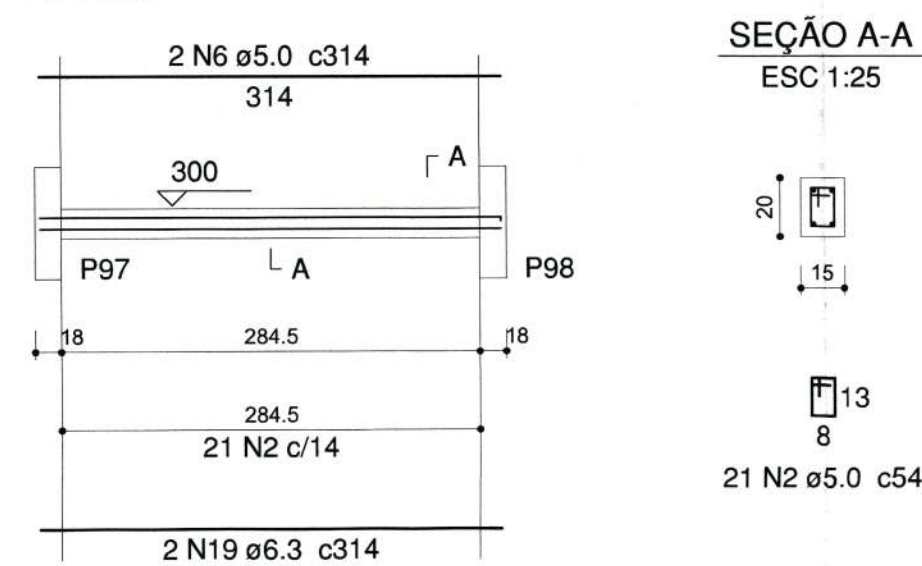
VERGA.19 (15 x 20)

ESC 1:50



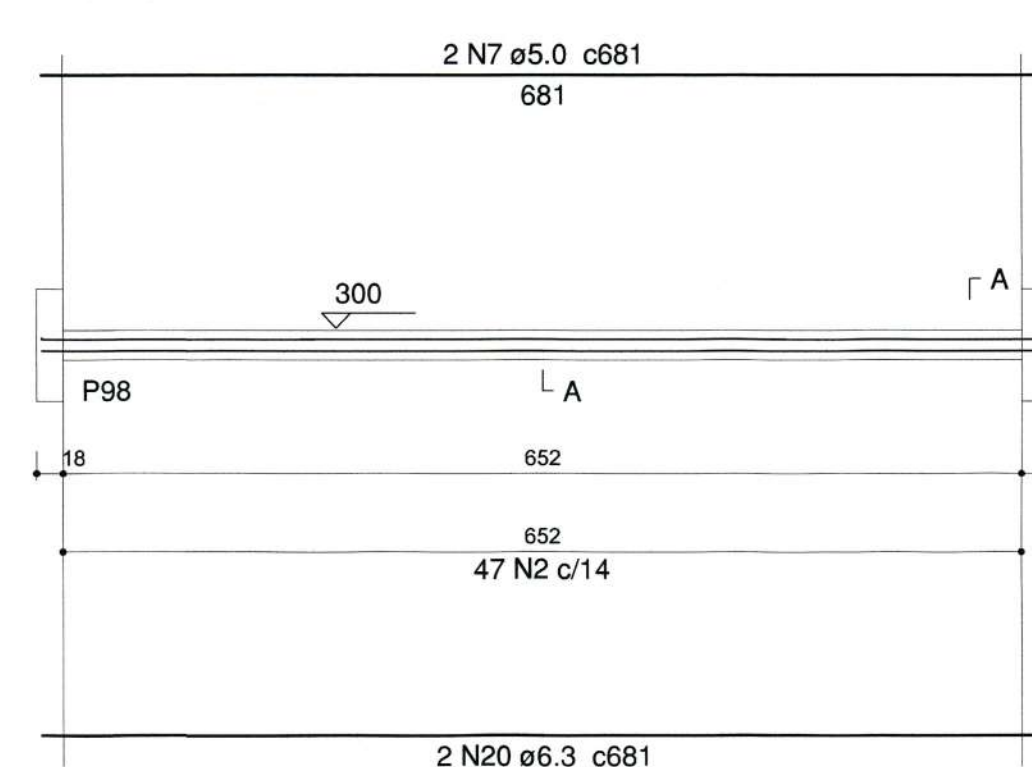
VERGA.20 (15 x 20)

ESC 1:50



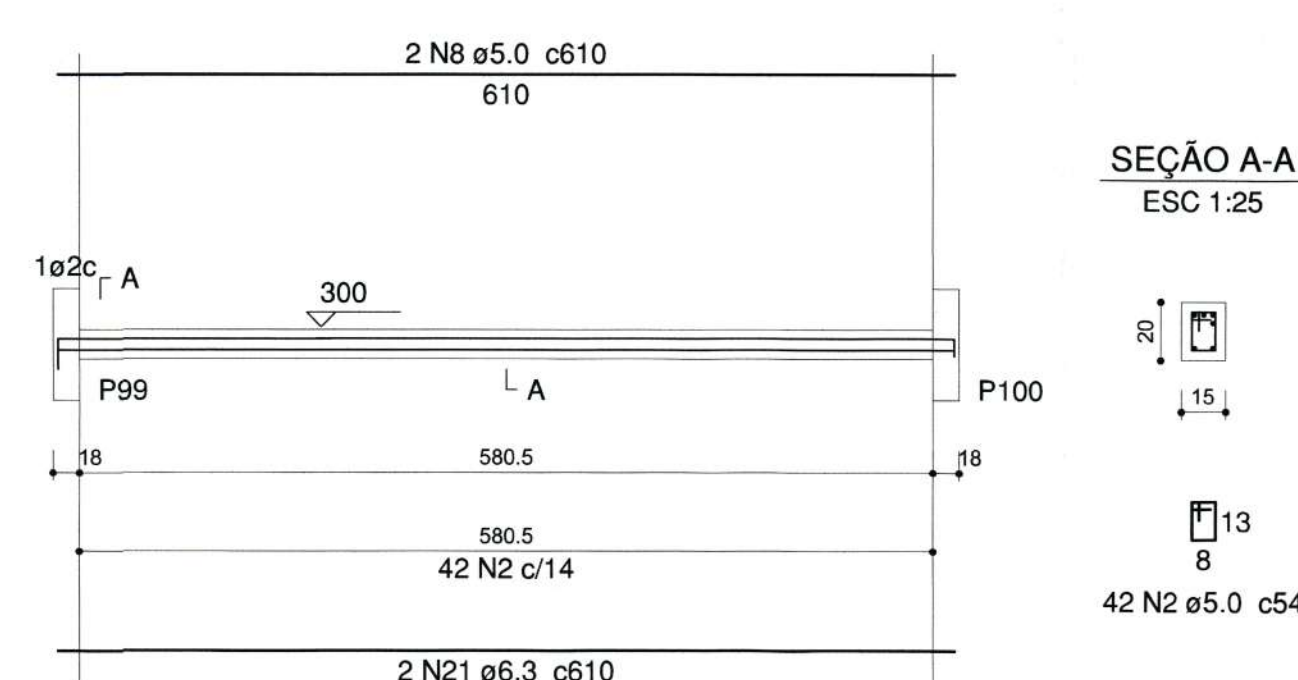
VERGA.21 (15 x 20)

ESC 1:50



VERGA.22 (15 x 20)

ESC 1:50



AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	2	732	1464
	2	5.0	440	54	23760
	3	5.0	2	687	1374
	4	5.0	2	697	1394
	5	5.0	2	233	466
	6	5.0	2	314	628
	7	5.0	2	681	1362
	8	5.0	2	610	1220
	9	5.0	2	384	768
	10	5.0	4	381	1524
CA50	11	5.0	2	311	622
	12	5.0	4	310	1240
	13	5.0	2	380	760
	14	5.0	2	113	226
	15	6.3	2	732	1464
	16	6.3	2	687	1374
	17	6.3	2	697	1394
	18	6.3	2	233	466
	19	6.3	2	314	628
	20	6.3	2	681	1362
	21	6.3	2	610	1220
	22	6.3	2	384	768
	23	6.3	4	381	1524
	24	6.3	2	311	622
	25	6.3	4	310	1240
	26	6.3	2	380	760
	27	6.3	2	113	226

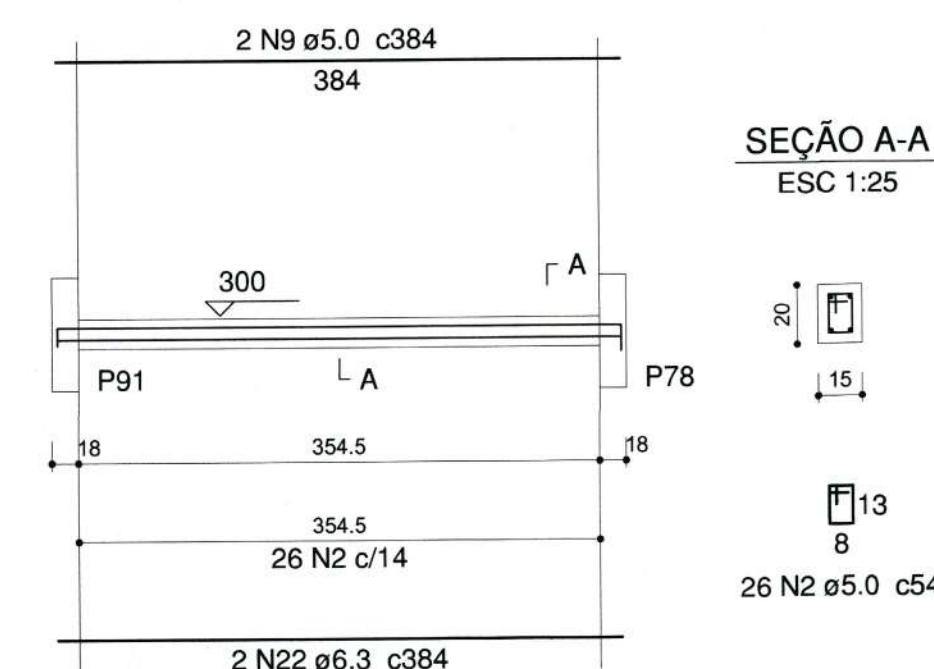
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	130.5	35.1
CA60	5.0	368.1	62.4
PESO TOTAL (kg)			
CA50	35.1		
CA60	62.4		

Volume de concreto (C-30) = 1.99 m³
Área de forma = 36.44 m²

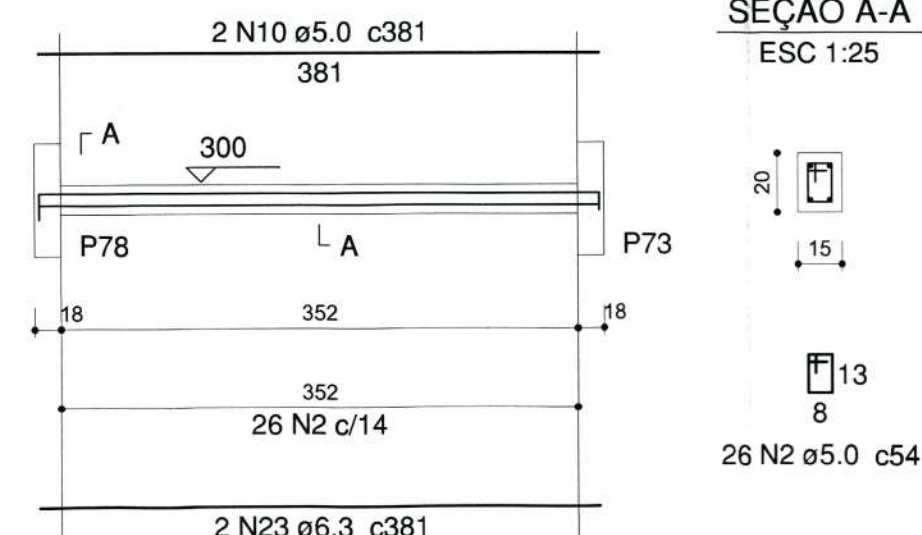
VERGA.23 (15 x 20)

ESC 1:50



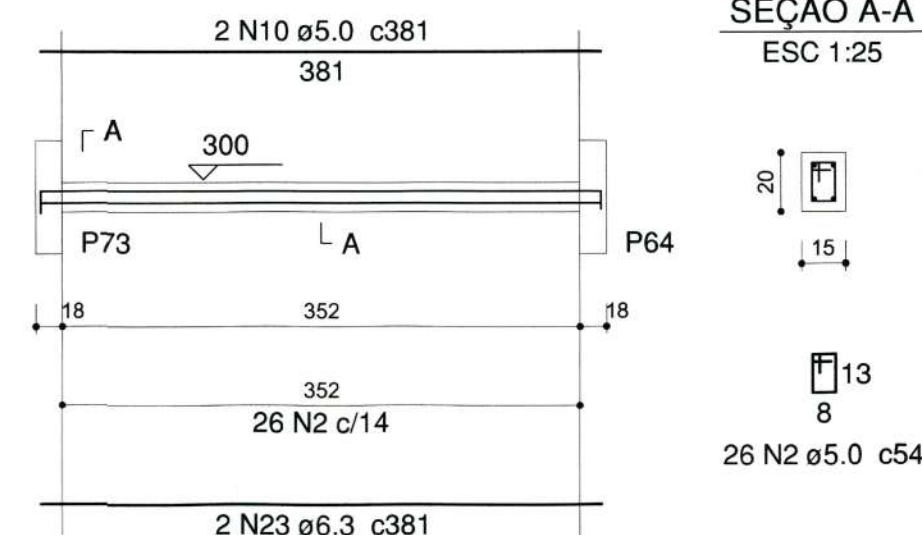
VERGA.24 (15 x 20)

ESC 1:50



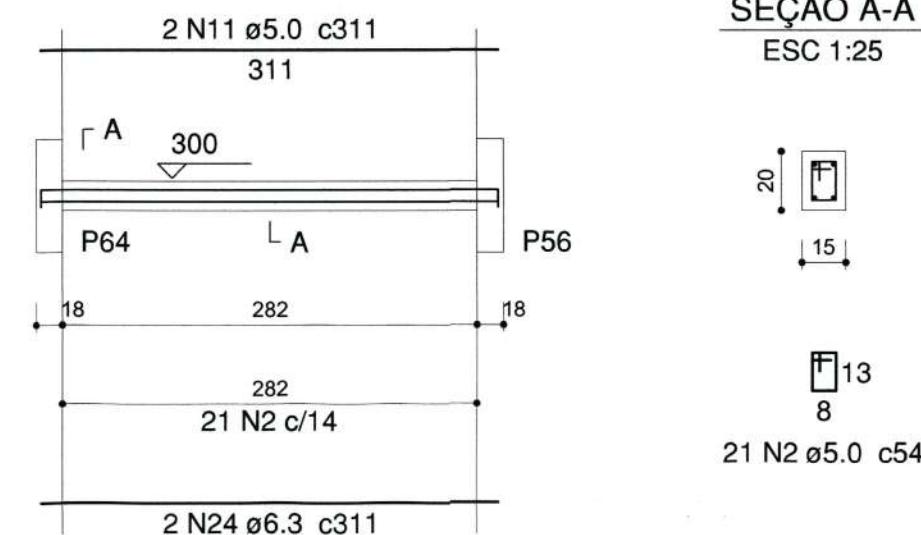
VERGA.25 (15 x 20)

ESC 1:50



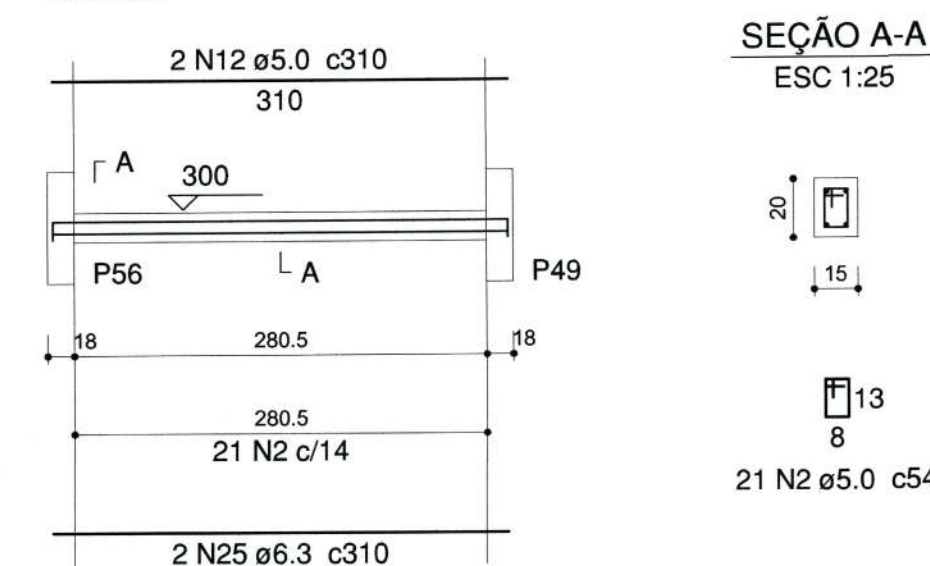
VERGA.26 (15 x 20)

ESC 1:50



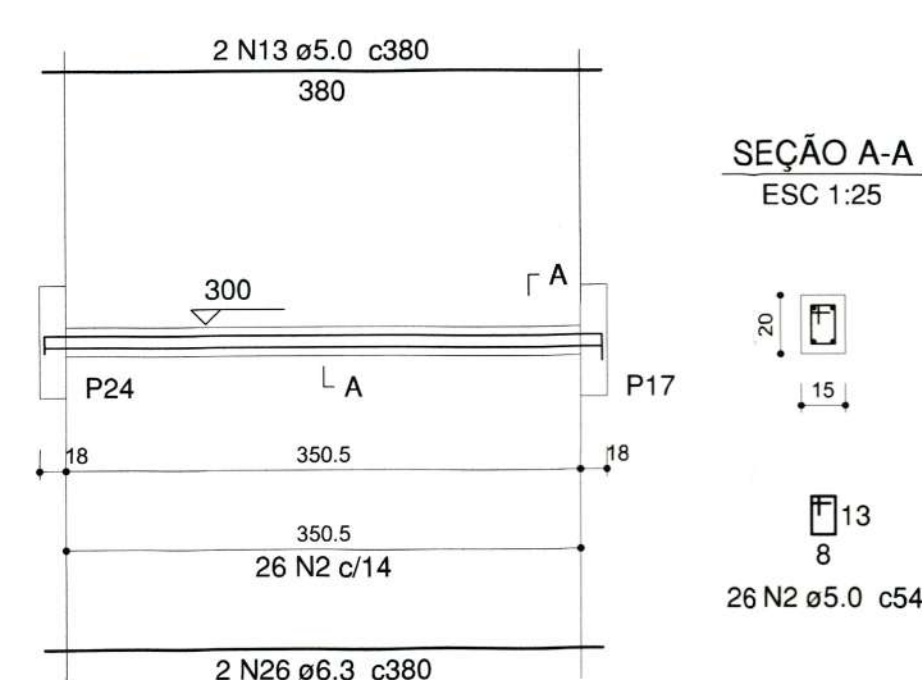
VERGA.27 (15 x 20)

ESC 1:50



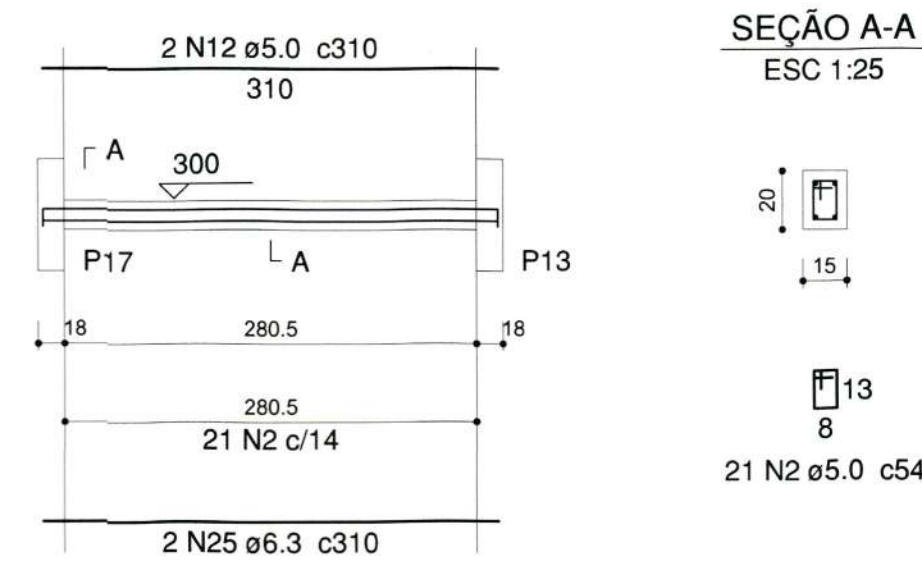
VERGA.28 (15 x 20)

ESC 1:50



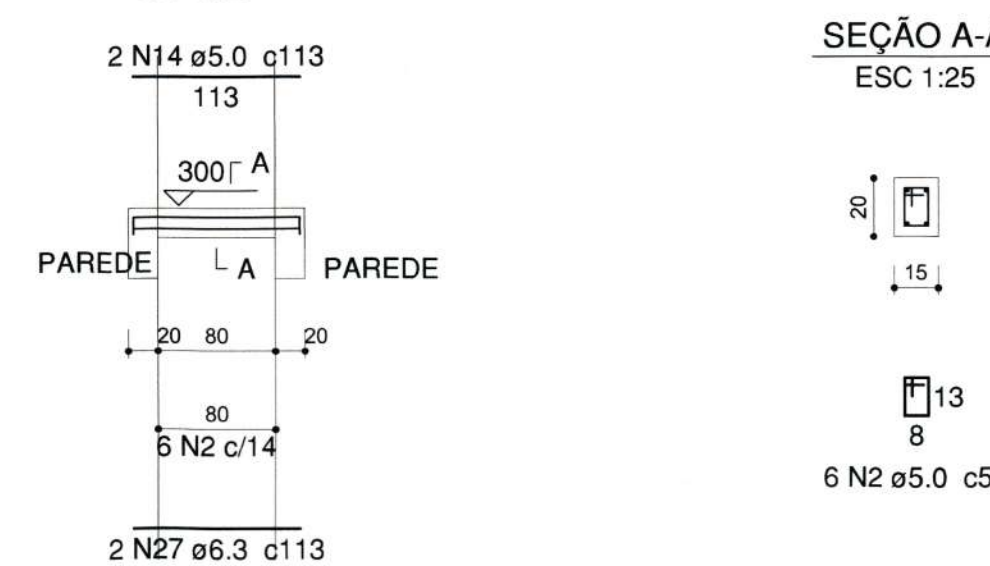
VERGA.29 (15 x 20)

ESC 1:50



VERGA.30 (15 x 20)

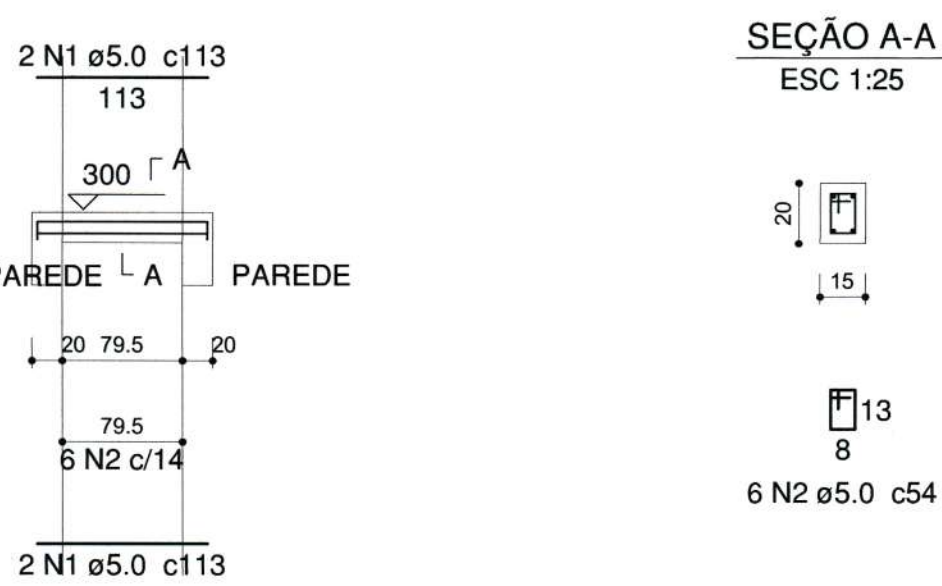
ESC 1:50



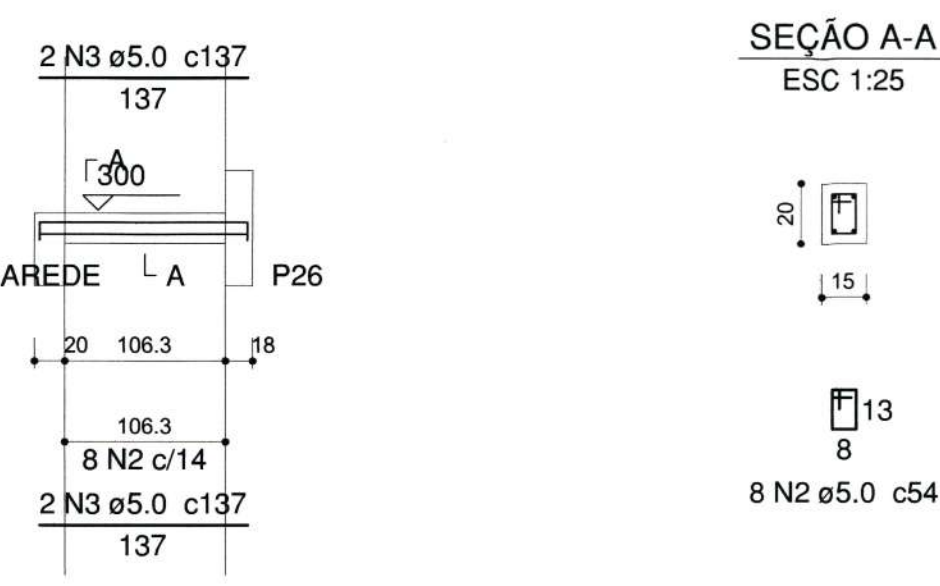
SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto:		PROJETO DE ESTRUTURA UBSF JARDIM PARAÍSO	
Conteúdo:		Vergas - 2	
Autor:	Ass:	Código:	UBP/Subsfp.SCO
ALEXANDRE SMORENOVIA: 42.999.7			
Co-Autor:	Ass:	Data:	Número Prancha:
		04/2020	20/38
Requerente:	Para o Código do Projeto Definir-se:		
Secretaria da Saúde	1 grupo - Executora do Projeto;		
	2 grupo - Secretaria, Fundação entre outros;		
	3 grupo - Tipo do Projeto;		
	4 grupo - Nome do Projeto (5 letras);		
	5 grupo - Número do Projeto;		
	6 grupo - Revisão / Ano.		

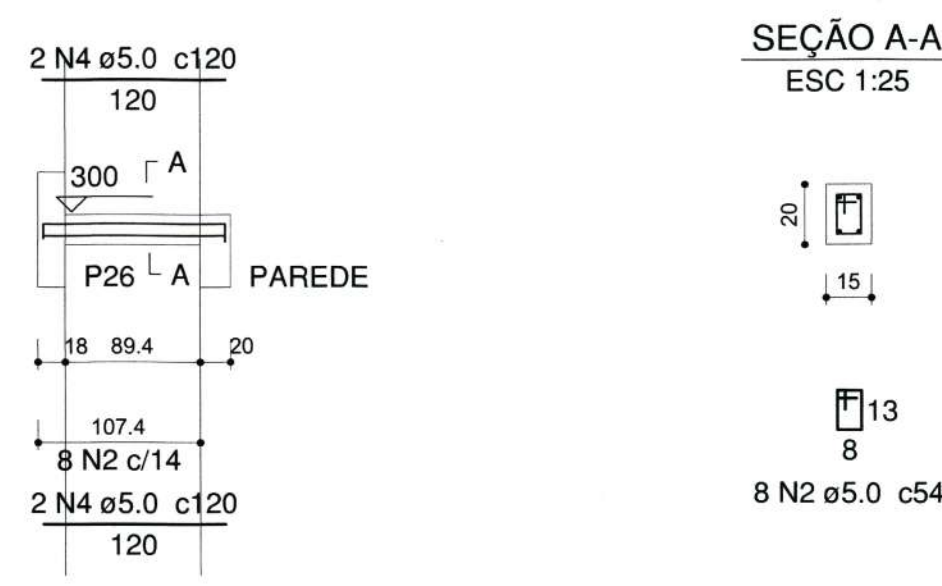
VERGA.31 (15 x 20)



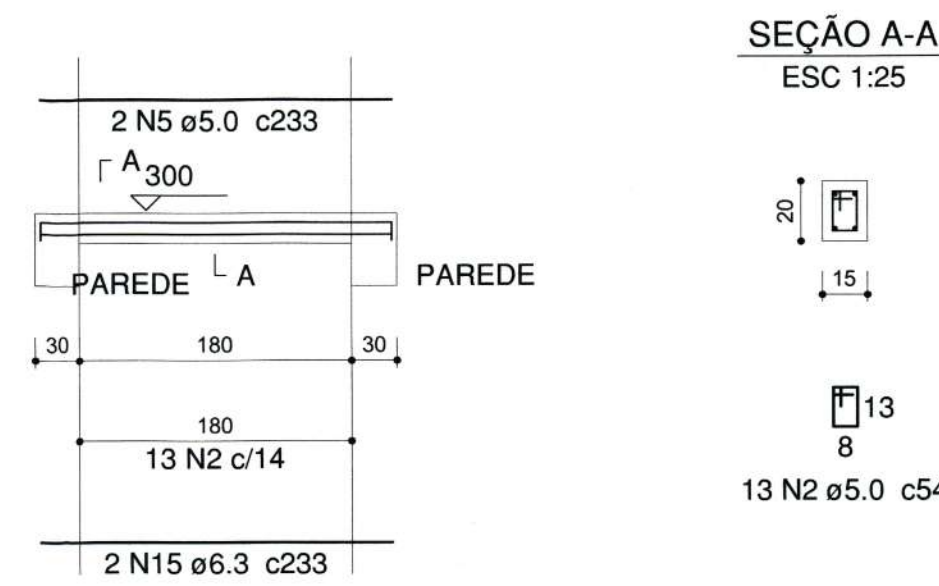
VERGA.32 (15 x 20)



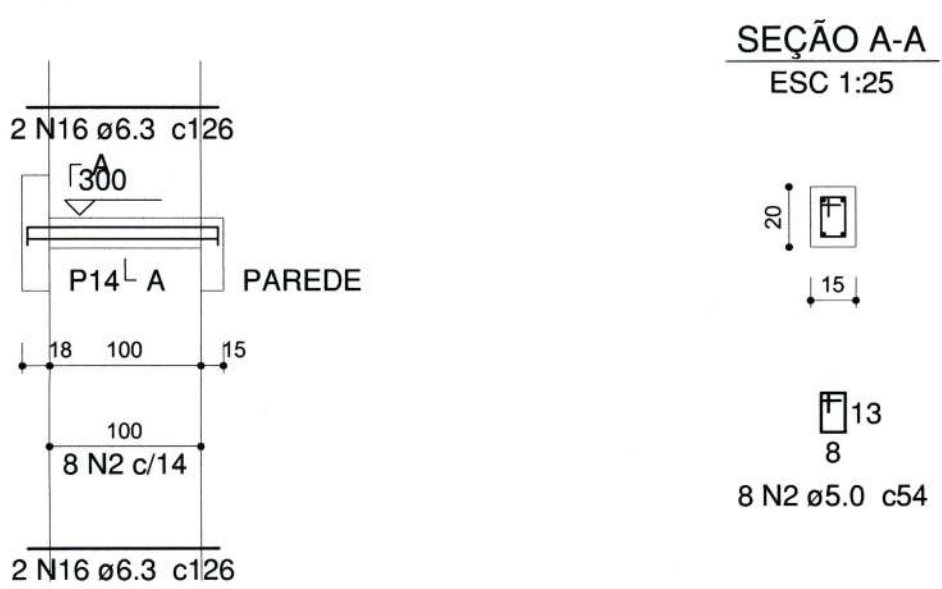
VERGA.33 (15 x 20)



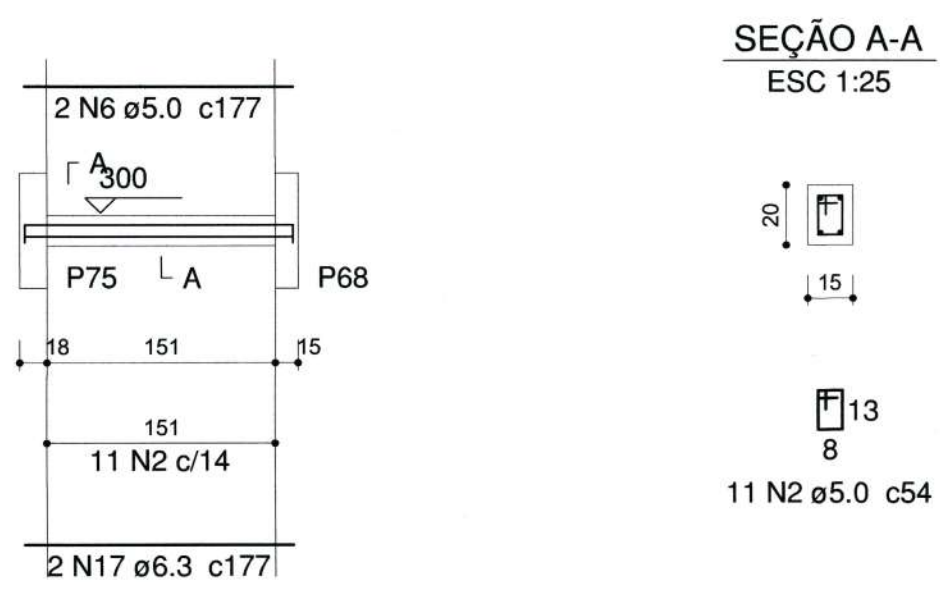
VERGA.34 (15 x 20)



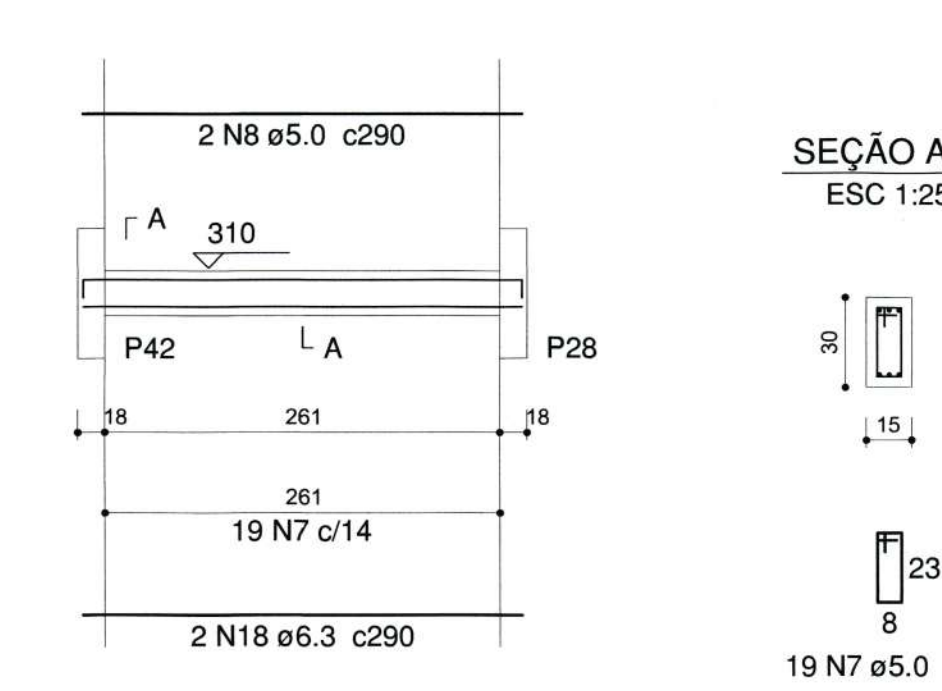
VERGA.35 (15 x 20)



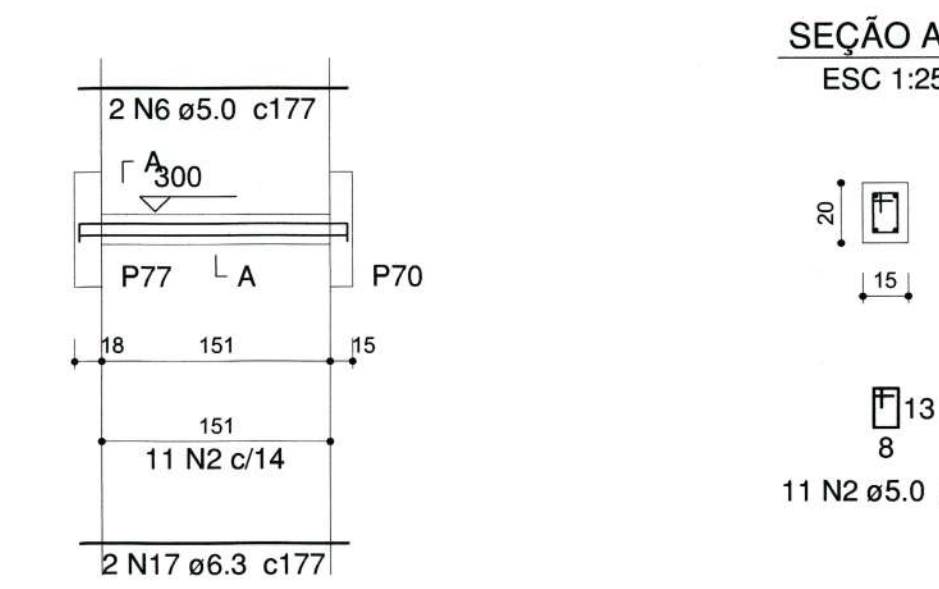
VERGA.36 (15 x 20)



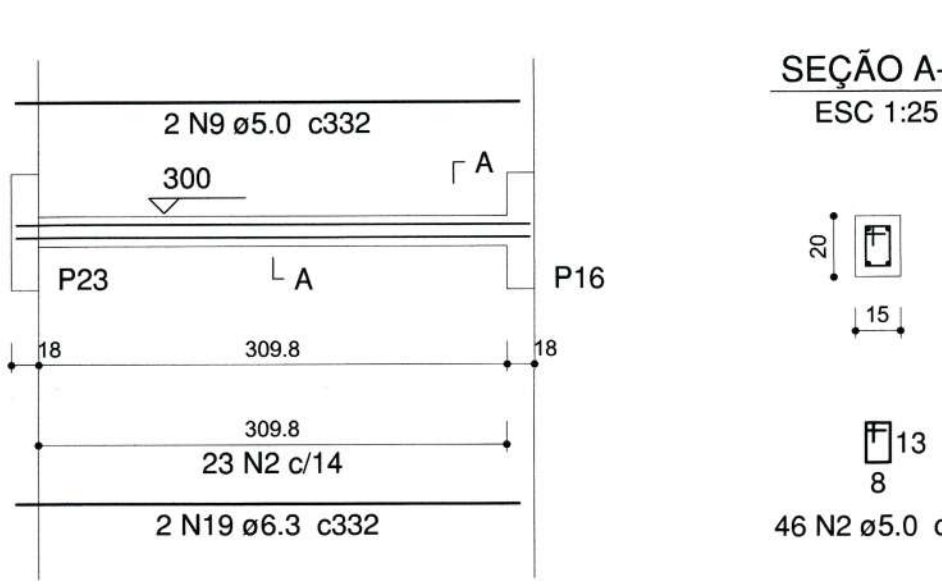
VERGA.37 (15 x 30)



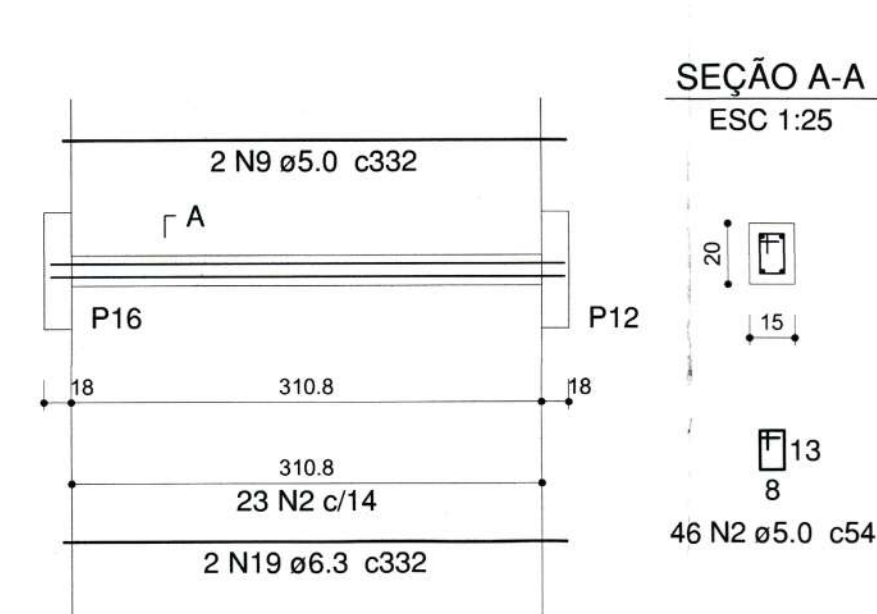
VERGA.38 (15 x 20)



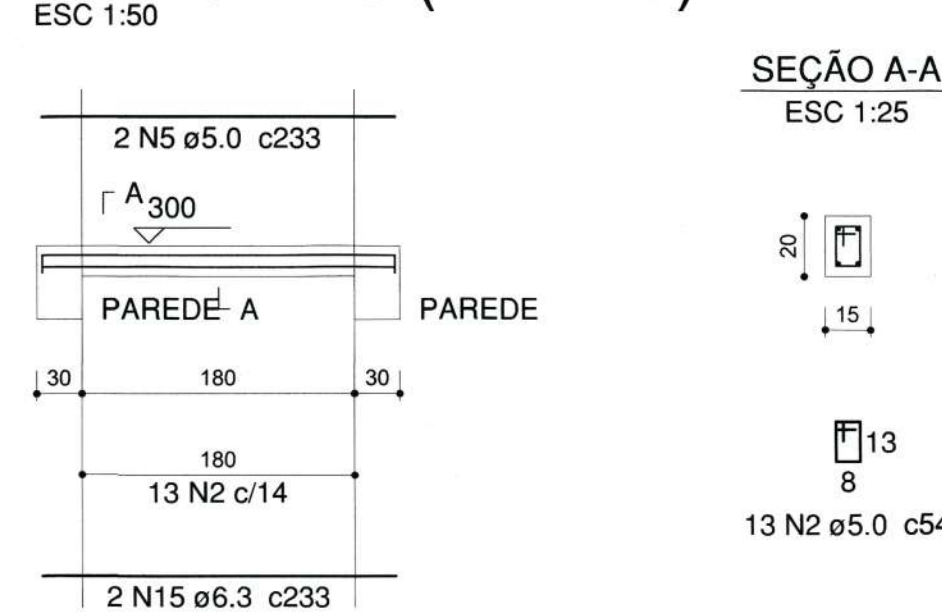
VERGA.39-1 (15 x 20)



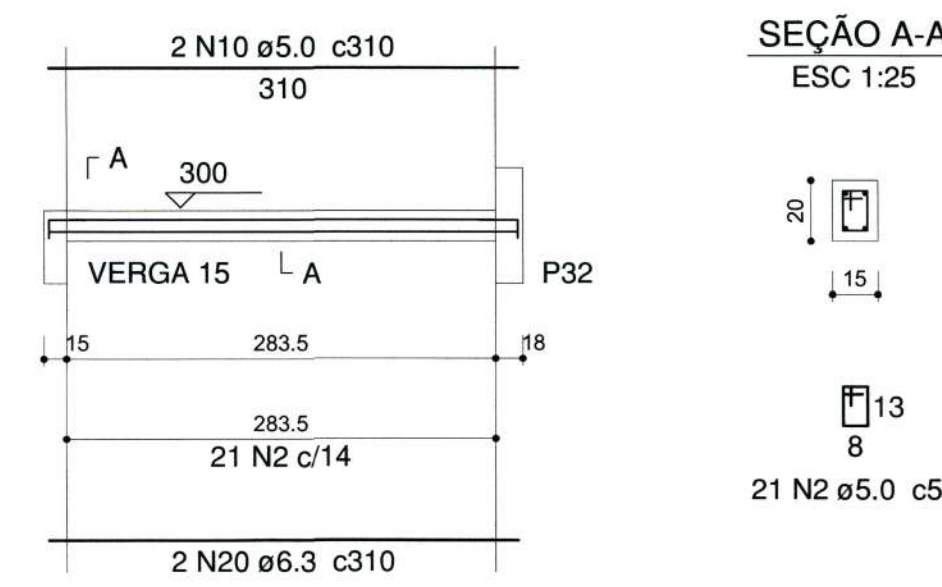
VERGA.39-2 (15 x 20)



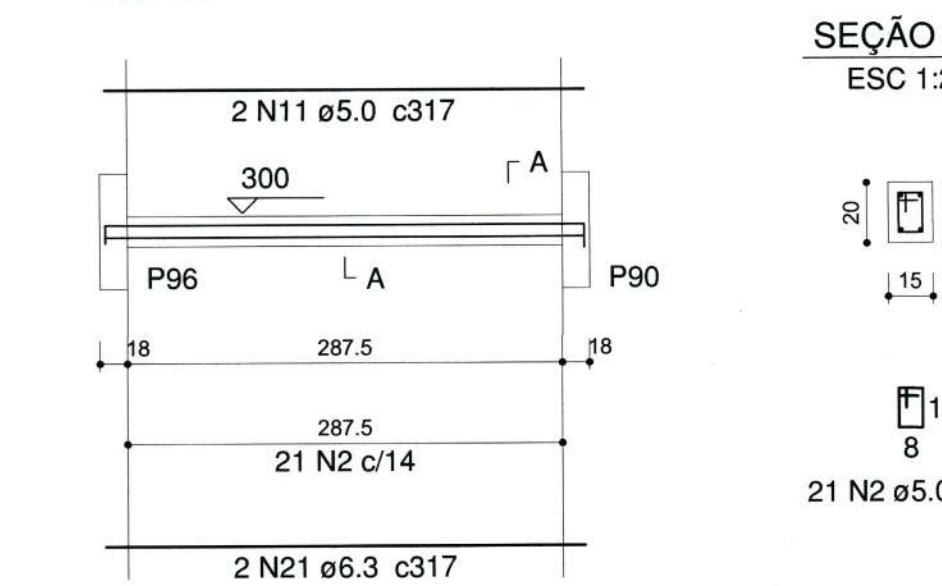
VERGA.40 (15 x 20)



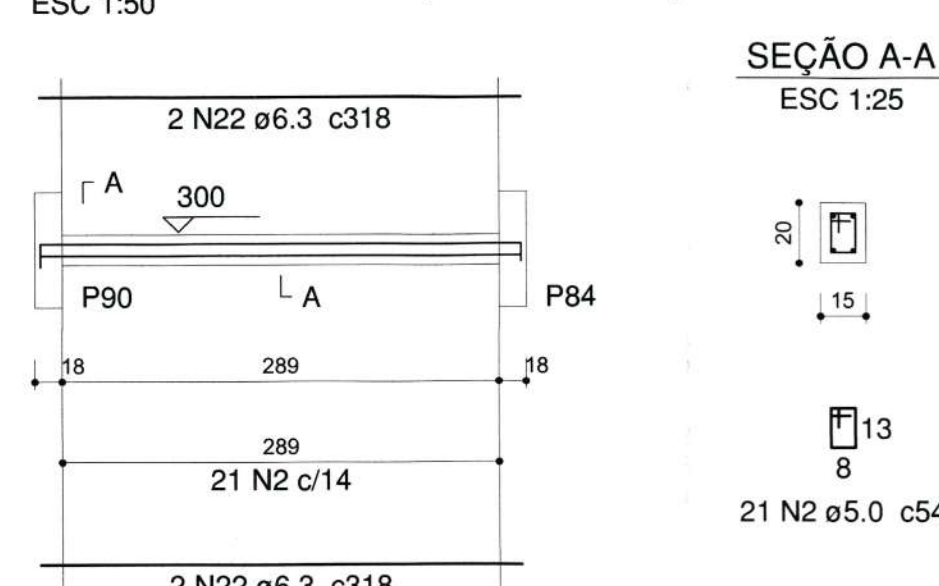
VERGA.41 (15 x 20)



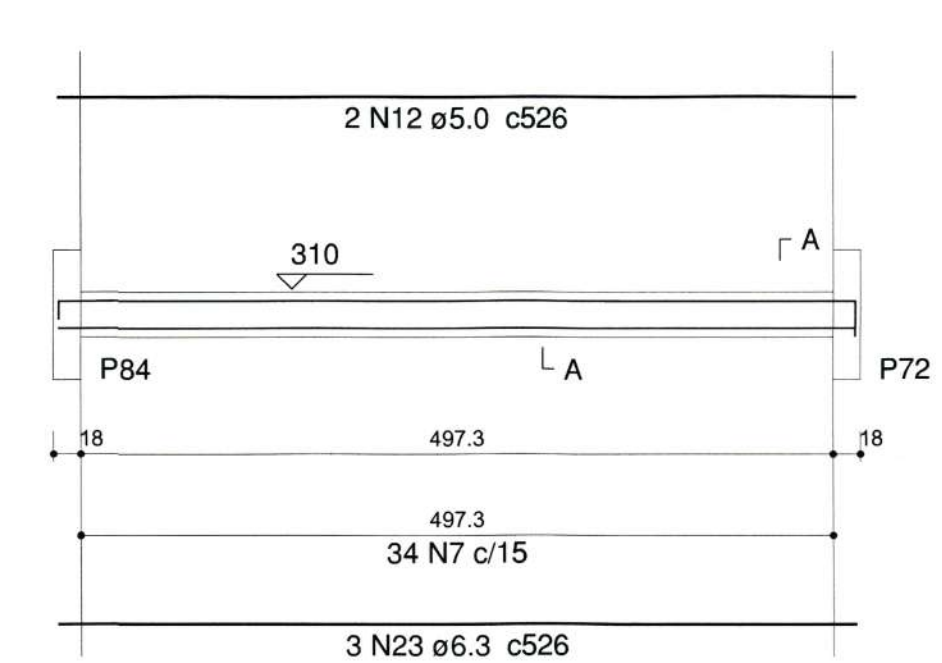
VERGA.42 (15 x 20)



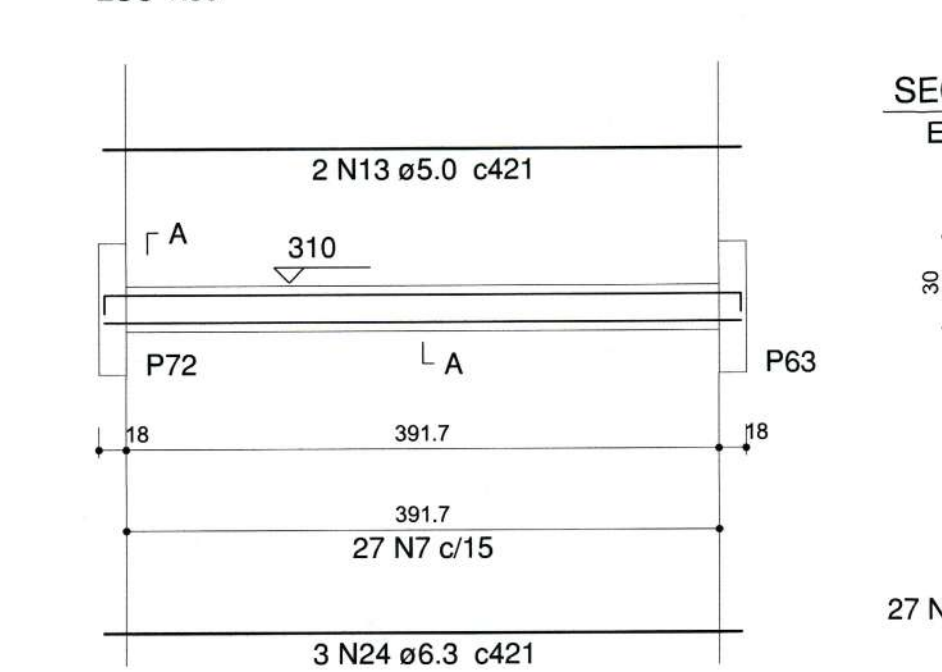
VERGA.43 (15 x 20)



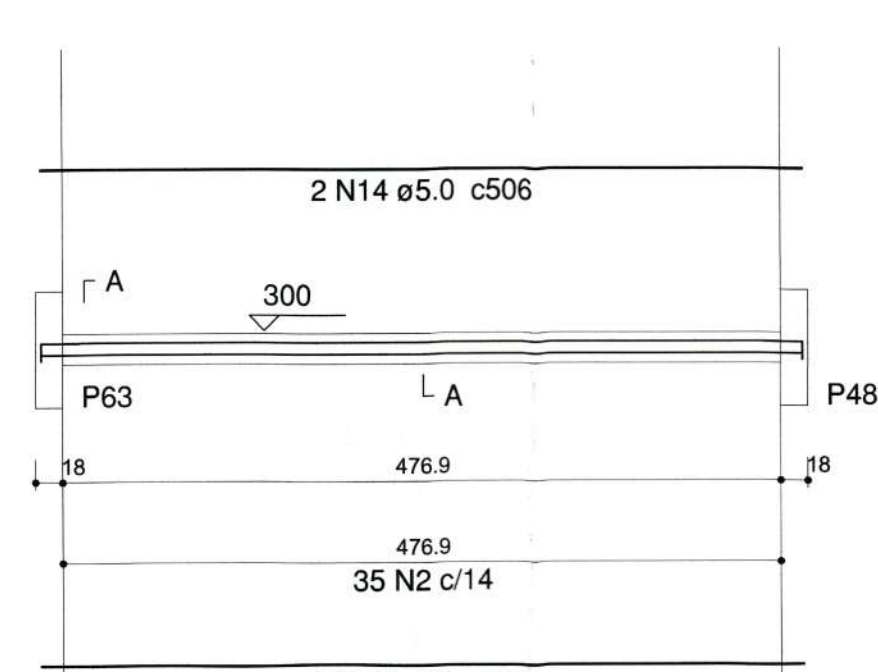
VERGA.44 (15 x 30)



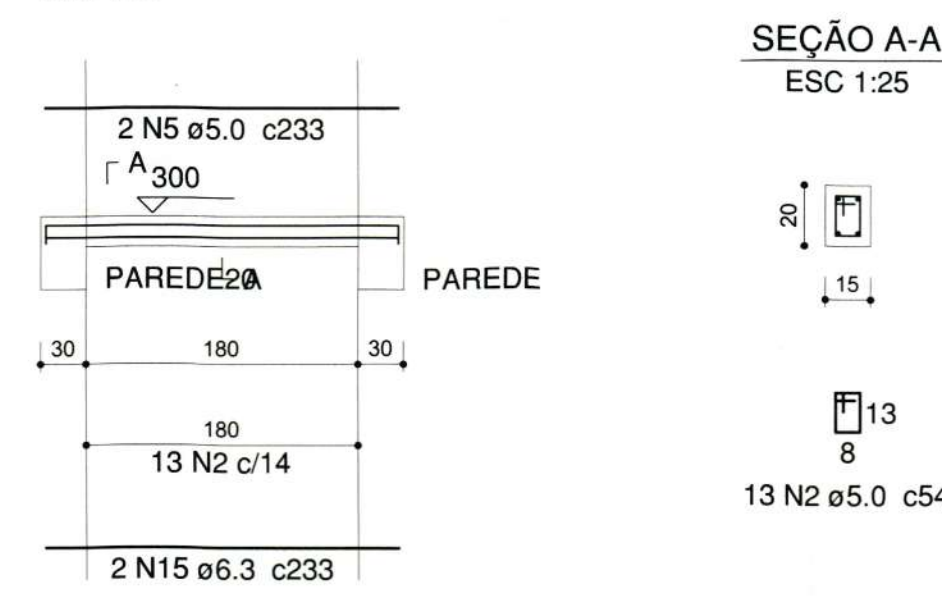
VERGA.45 (15 x 30)



VERGA.46 (15 x 20)



VERGA.47 (15 x 20)



ÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4	113	452
	2	5.0	235	54	12690
	3	5.0	4	137	548
	4	5.0	4	120	480
	5	5.0	6	233	1398
	6	5.0	4	177	708
	7	5.0	80	74	5920
	8	5.0	2	290	580
	9	5.0	4	332	1328
	10	5.0	2	310	620
CA50	11	5.0	2	317	634
	12	5.0	2	526	1052
	13	5.0	2	421	842
	14	5.0	2	506	1012
	15	6.3	6	233	1398
	16	6.3	4	126	504
	17	6.3	4	177	708
	18	6.3	2	290	580
	19	6.3	4	332	1328
	20	6.3	2	310	620
	21	6.3	2	317	634
	22	6.3	4	318	1272
	23	6.3	3	526	1578
	24	6.3	3	421	1263
	25	6.3	2	506	1012

Resumo do aço

ÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	109	29.3
CA60	5.0	282.7	47.9
PESO TOTAL (kg)			
CA50		29.3	
CA60		47.9	

Volume de concreto (C-30) = 1.7 m³
Área de forma = 30.14 m²



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO

Conteúdo: Vergas - 3

Autores: ALEXANDRE SMORZAN, CREA: 42.999-7
Ass.:
Co-Autor: Alexandre
Ass.: Alexandre

Código: UBP/Subsfp.SCO
Data: 04/2020
Número Prancha: 21/38

Requerente: Secretaria da Saúde
Escala: Indicada
Desenhista CAD: Alexandre

Nota: Para o Código do Projeto Definir-se:
1 grupo - Executora do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo de Projeto;
4 grupo - Nome do Projeto (5 letras);
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

SECRETARIA MUNICIPAL DE SAÚDE
FABRÍCIO DA ROSA
Diretor Executivo
Matrícula 4421

The technical drawing illustrates the cross-section of a bridge deck, detailing its geometry and reinforcement. The main components include:

- Top Reinforcement:** Consists of three bars labeled 2 N100 ø12.5 c850, 2 N101 ø12.5 c892, and 2 N102 ø12.5 c801.
- Bottom Reinforcement:** Includes multiple layers of bars such as 7 N1 c19, 19 N1 c6, 10 N1 c19, 10 N1 c12, 23 N1 c19, 6 N1 c18, 14 N1 c19, 20 N1 c19, 7 N1 c18, 9 N1 c19, 14 N1 c8, 7 N1 c19, 3 N30 ø8.0 c145, 3 N29 ø8.0 c1192, and 2 N32 ø8.0 c129.
- Vertical Dimensions:** Indicate various heights and clearances, including 121, 114, 187.6, 120, 419.1, 108, 284, 362.7, 128, 167, 112, 121, 126, 50, and 50.
- Horizontal Dimensions:** Show distances between reinforcement bars and structural elements, such as 820, 80, 771, 406, 419.1, 372, 18, 362.7, 405, 18, 121, 126, 50, and 50.
- Labels and Notes:** Specific labels like "V.L-58", "P1", "P2", "P3", "P4", "P5", "P6", "Espera P105", "L A", and "Γ A" are used to identify different parts and sections of the drawing.

ESC 1:50

27

1a2c

2a2c

2a2c

2a2c

1a2c

3 N84 ø10.0 c1198

1173

64

3 N85 ø10.0 c573

550

1 N83 ø10.0 c1157

155

406

P7

V.L-65

P8

L A

P9

P10

V.L-80

P11

18

423.1

15

422.1

15

372.5

20

360.7

20

423.1

22 N7 c/20

119

7 N7 c/17

184.1

10 N7 c/20

119

7 N7 c/17

372.5

19 N7 c/20

108

6 N7 c/18

262.7

13 N7 c/20

1 N86 ø5.0 c101

49

7

444

3 N22 ø6.3 c451

3 N39 ø8.0 c438

3 N23 ø6.3 c385

385

3 N40 ø8.0 c393

8

15

2

15

33

8

84 N7 ø5.0 c101

49

7

10

SEÇÃO A-A

ESC 1:25

ESC 1:50

33 2 N104 ø12.5 c293 263 3 N25 ø6.3 c111 92 20

SEÇÃO A-A ESPERA P

ESC 1:25 ESC 1:25

Espera P111 2 N12 ø5.0 c223

406 Γ A

V.L.-52 P17 A P18

92.5 8 433.5 20

92.5 433.5 5 N7 c/20 22 N7 c/20

20 95 3 N24 ø6.3 c114 136 1 N51 ø8.0 c253

50 50 2 N52 ø8.0 c458

33 8 27 N7 ø5.0 c94

90 4 N81 ø10.0 c66 10

[illegible]

ESC 1:50

2 N92 ø10.0 c14

33 557 29

1 N91 ø10.0 c306

30 278 1ø2c

Espera P113

406

2x5 N15 ø5.0

V.L.-52 A

P24 V.L.-57 B

92.5 18 433.5 20

92.5 433.5

5 N7 c20 22 N4 c20

20 95

3 N24 ø6.3 c114

50 10L

33 50

3 N62 ø8.0 c473

465

2 N32 ø8.0 c129

SEÇÃO A-A

ESC 1:25

SEÇÃO B-B

ESC 1:25

ESPERA P

150

80

4 N81 ø10.0 c88

10

33

5 N7 ø5.0 c94

8

53

22 N4 ø5.0 c134

Technical drawing of a mechanical part, likely a bracket or support, showing front and side views with dimensions and part numbers.

Front View (Top):

- Overall width: 557
- Top flange width: 2 N78 ø8.0 c30
- Top flange thickness: 24
- Internal hole diameter: 1 N77 ø8.0 c523
- Internal hole offset: 501
- Internal hole diameter: 24

Front View (Bottom):

- Overall width: 557
- Bottom flange width: 2 N76 ø8.0 c587
- Bottom flange thickness: 24
- Internal hole diameter: 1 N75 ø8.0 c104
- Internal hole offset: 501
- Internal hole diameter: 24

Side View (Left):

- Overall height: 155
- Top flange height: 18
- Top flange width: 155
- Top flange thickness: 8 N4 c20
- Internal hole diameter: 1 N6 ø5.0 c101
- Internal hole offset: 291
- Internal hole diameter: 10

Side View (Right):

- Overall height: 155
- Top flange height: 18
- Top flange width: 155
- Top flange thickness: 8 N4 c20
- Internal hole diameter: 1 N6 ø5.0 c101
- Internal hole offset: 291
- Internal hole diameter: 10

Section A-A (Right):

- Section line: A-A
- Section width: 8
- Section height: 15
- Section offset: 53

Dimensions and Part Numbers:

- 557
- 2 N78 ø8.0 c30
- 24
- 1 N77 ø8.0 c523
- 501
- 24
- 426
- 2x5 N10 ø5.0
- 2x5 N16 ø5.0
- V.L-51
- P37
- A
- P38
- 155
- 18
- 371
- 20
- 155
- 371
- 1 N6 ø5.0 c101
- 291
- 49
- 7
- 24
- 160
- 96
- 10
- 1 N46 ø8.0 c182
- 1 N75 ø8.0 c104
- 557
- 2 N76 ø8.0 c587
- 24
- 50
- 53
- 50
- 2 N31 ø8.0 c149
- 8
- 15
- 53
- 27 N4 ø5.0 c134

Technical drawing of the L.17-65 staircase, showing side and front elevations with dimensions and component labels.

Side Elevation (Left):

- ESC 1:50
- 2 N94 ø10.0 c838
- 53
- 557
- 33
- Espera P120
- 426
- A
- 2x6 N10 ø5.0
- 2x6 N17 ø5.0
- V.L.51
- P39
- A
- L.17-65
- 155
- 18
- 373
- 18
- 9 N9 c19
- 20 N9 c19
- 2 N18 ø5.0 c100
- 10
- 47
- J12
- 50
- 2 N93 ø10.0 c597
- 50
- 2 N31 ø8.0 c149

Side Elevation (Right):

- SECAU R-R
- ESC 1:25
- ESC 1:25
- 60
- 18
- 100
- 4 N82 ø10.0 c108
- 10
- 53
- 11
- 29 N9 ø5.0 c140

Front Elevation (Right):

- L.17-65
- NIVEL LAJES - L3
- 426
- ESC 1:25
- 18
- 13
- 5 N21 ø5.0 c64
- 56
- 4 N38 ø10.0 c56
- 5 N21 c12
- 367
- 110

Technical drawing of a window frame assembly. The drawing includes a main elevation view and two cross-sectional views (A-A and B-B).

Main Elevation View:

- Top left: ESC 1:50
- Top center: 2 N94 ø10.0 c638
- Top right: ESC 1:25
- Left side: 53 (height), 33 (height), 53 (height)
- Right side: 33 (height), 12 (height)
- Internal components:
 - Espera P119 426
 - 2x6 N10 ø5.0
 - 2x6 N17 ø5.0
 - V.L-50
 - P40
 - L A
 - L18-64
 - 9 N9 c19
 - 20 N9 c19
 - 2 N18 ø5.0 c100
 - 2 N93 ø10.0 c597
 - 2 N31 ø8.0 c149
- Dimensions:
 - 155 (width)
 - 18 (width)
 - 373 (width)
 - 557 (width)
 - 50 (width)
 - 47 (width)
 - 10 (width)
 - 50 (width)

Cross-section A-A:

- Top: 100 (height)
- Bottom: 10 (height)
- Width: 4 N92 ø10.0 c108

Cross-section B-B:

- Top: 8 (height)
- Bottom: 18 (height)
- Width: 53 (width)

ESC 1:25

3 N35 $\pm 0,0$ c427

374

1 N34 $\pm 0,0$ c188

166

24

33

Espera P107

406

Espera P108

V-S-19

V-L-55

A

V-L-58

P7

110,5

252,5

92,5

5 N1 $\pm 0,0$ c19

14 N1 $\pm 0,0$ c19

252,5

374

3 N33 $\pm 0,0$ c399

19

10

SEÇÃO A-A

ESPERA P107

ESPERA P108

ESC 1:25

ESC 1:25

ESC 1:25

9

18

80

10

4 N31 $\pm 0,0$ c88

11

33

19 N1 $\pm 0,0$ c100

ESC 1:50

33

2 N88 ø10.0 c770

690

1 N87 ø10.0 c230

81

53

SEÇÃO A-A

ESC 1:25

Espera P110

8

18

53

11

36 N9 ø5.0 c19

2x6 N8 ø5.0

2x6 N3 ø5.0

P15

L A

P16

V.L-89

78

540.2

18

121

121

50

53

29 N9 c19

7 N9 c19

690

2 N86 ø10.0 c730

121

33

2 N31 ø8.0 c149

Technical drawing of a bridge section (SEÇÃO A-A) at ESC 1.25. The drawing shows a cross-section of a bridge with a central span of 332 units and two side spans of 175 units. The total width is 682 units. The bridge has a central pier (P22) and two side piers (P23). The bridge is supported by two main piers (P22 and P23) and two side piers (P24 and P25). The bridge is shown in a perspective view. The drawing includes dimensions for the bridge structure, including the width of the bridge deck, the height of the bridge piers, and the distance between the piers. The drawing is labeled 'SEÇÃO A-A' and 'ESC 1.25'.

ESCA 1:50

33

3 N56 ø8.0 c198

1167

54

3 N74 ø8.0 c457

426

1 N73 ø8.0 c155

71

ESPERA P117

406

Γ A

ESPERA P118

SEÇÃO A-A

ESCA 1:25

ESCA 1:25

ESCA 1:25

ESPERA P117/ESPERA P1

18

120

362.2

18

262

18

327

18

263.5

18

121

120

362.2

18

262

18

327

18

263.5

18

121

19

125

1 N68 ø8.0 c142

136

1 N69 ø8.0 c180

1130

1032

1 N71 ø8.0 c1049

407

2 N72 ø8.0 c424

19

19

11

80 N1 ø5.0 c100

18

80

4 N93 ø10.0 c89

10

80

4 N93 ø10.0 c89

10

V.L.-107

Fig. 10

Technical drawing of a window frame assembly (Fig. 10) showing a cross-section of a double-pane window with a thermal break. The drawing includes dimensions for the frame, panes, and insulation. Key components labeled include the frame (2 N19 ø5.0 c294), panes (V L-98 and L A), and the thermal break (P47). Dimensions include a total width of 345, a pane width of 330, and a frame width of 17 N7 c20. The drawing also shows a cross-section of the frame (2 N79 ø8.0 c353) and a detail of the frame profile (SEÇÃO A-A ESC 1:25).

Technical drawing of a window assembly, showing a cross-section (left) and an elevation (right).

Cross-section (Left):

- Top dimensions: 2 N97 ø10.0 c513, 1 N96 ø10.0 c507, 412, 1 N95 ø10.0 c305, 257, 2ø2c, 426.
- Window frame components: 2x5 N20 ø5.0, 2x5 N3 ø5.0, P47, P48, V.L.-107.
- Bottom dimensions: 15, 265, 18, 121, 280, 14 N4 c/20, 7 N4 c/20, 412, 3 N80 ø8.0 c456, 24, 50, 53, 2 N31 ø8.0 c149.

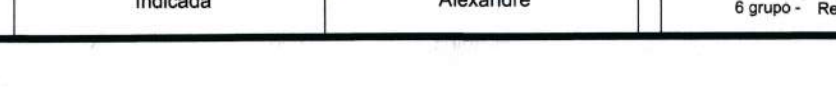
Elevation (Right):

- Section title: SEÇÃO A-A, ESPERA P122.
- Scale: ESC 1:25, ESC 1:25.
- Dimensions: 8, 100, 10, 4 N22 Ø10 c108, 53, 8, 21 N4 ø5.0 c134.

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (t/m)	PESO + 10 % (kg)
CA50	6.3	68.7	17.9
	8.0	593.3	257.5
	10.0	255.1	173
	12.5	75.7	80.1
CA60	5.0	1477	250.4
PESO TOTAL			
(kg)			
CA50	528.5		
CA60	250.4		

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPACADORES INDUSTRIALIZADOS

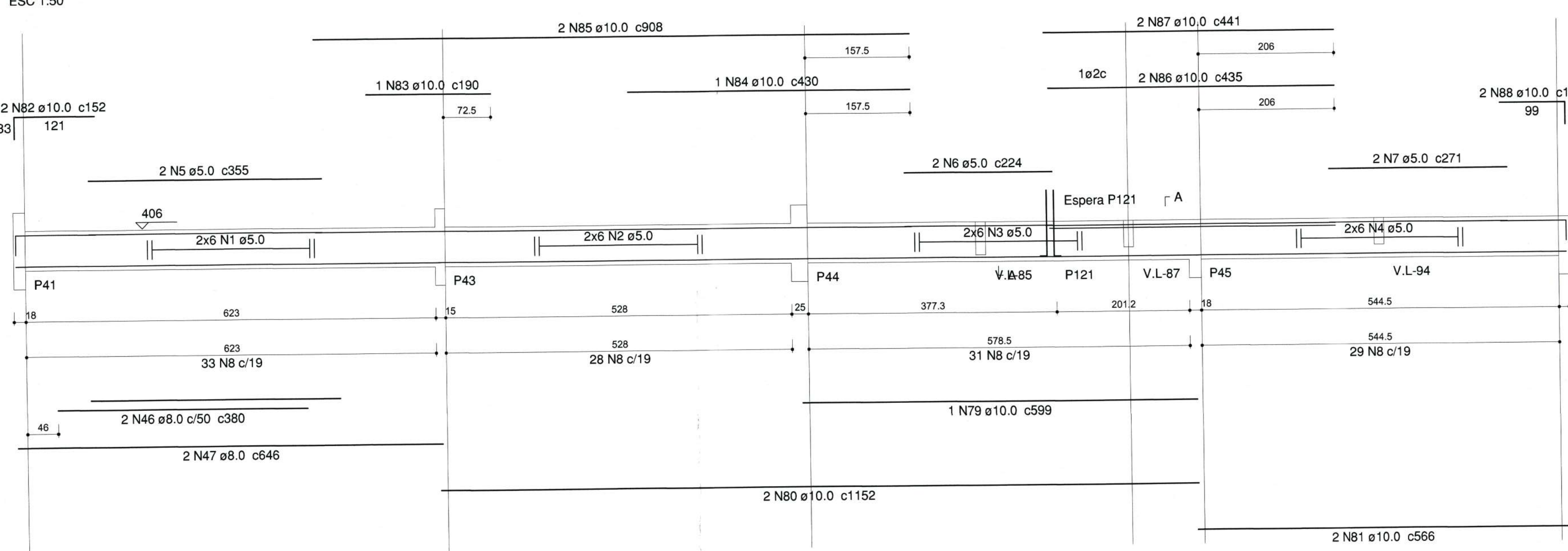


Nota: Para o Código do Projeto Defina-se:

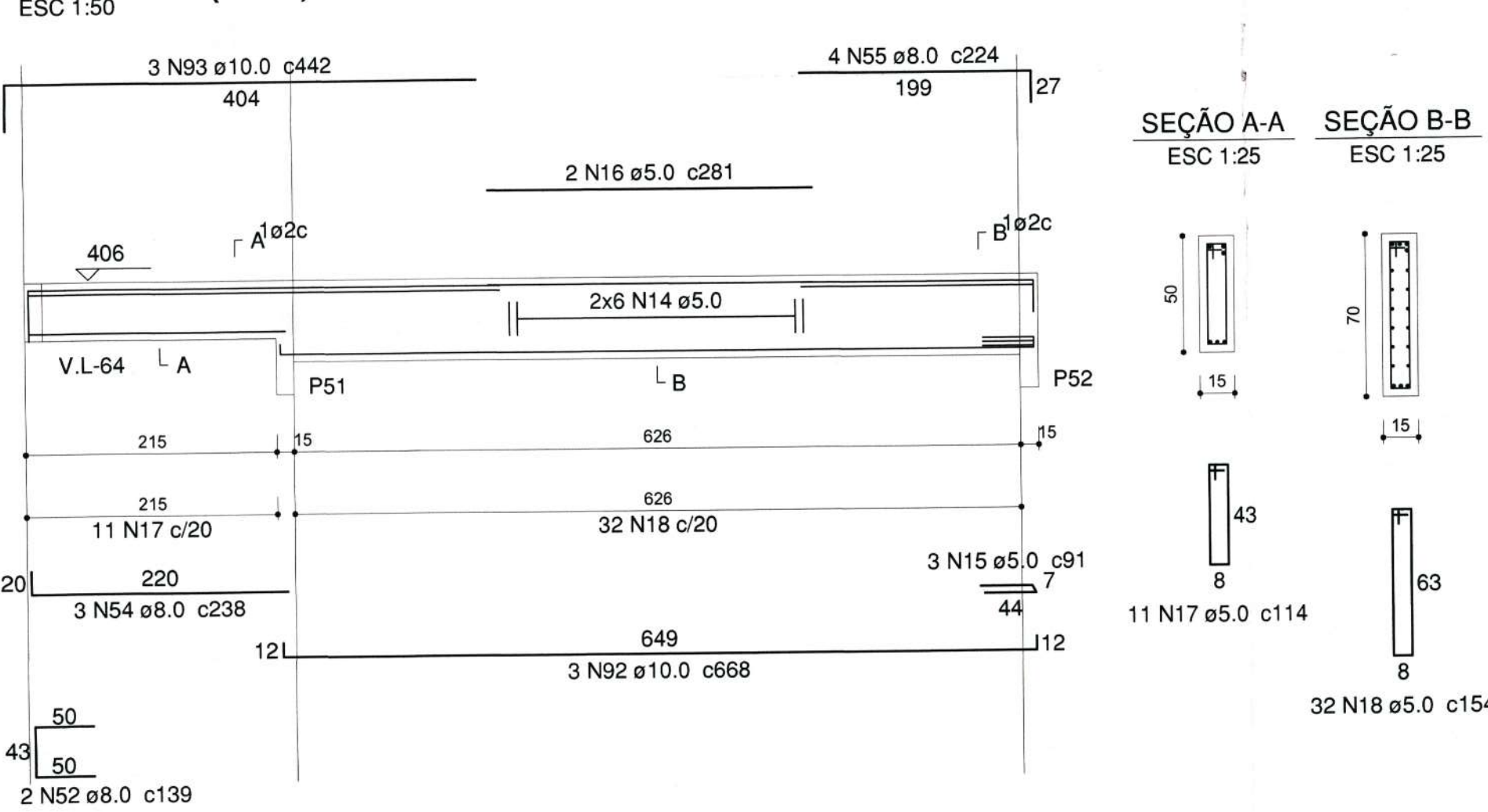
- 1 grupo - Executora do Projeto;
- 2 grupo - Secretária, Fundação entre outros;
- 3 grupo - Tipo de Projeto;
- 4 grupo - Nome do Projeto (5 letras);
- 5 grupo - Número do Projeto;
- 6 grupo - Revisão / Ano.

SECRETARIA MUNICIPAL DE SAÚDE
SECRETARIA DA SAÚDE
Fabricio da Rosa
Diretor Executivo
Fone: 31271

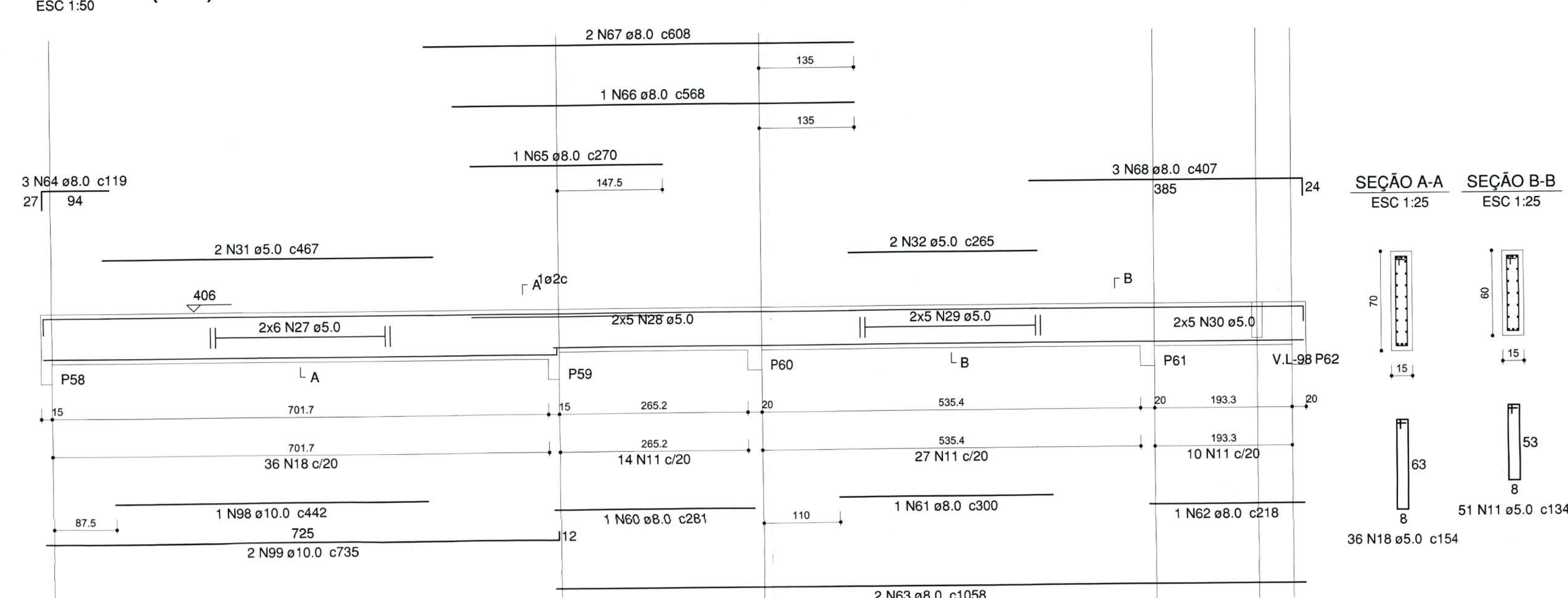
V.L-19 (18 x 60)



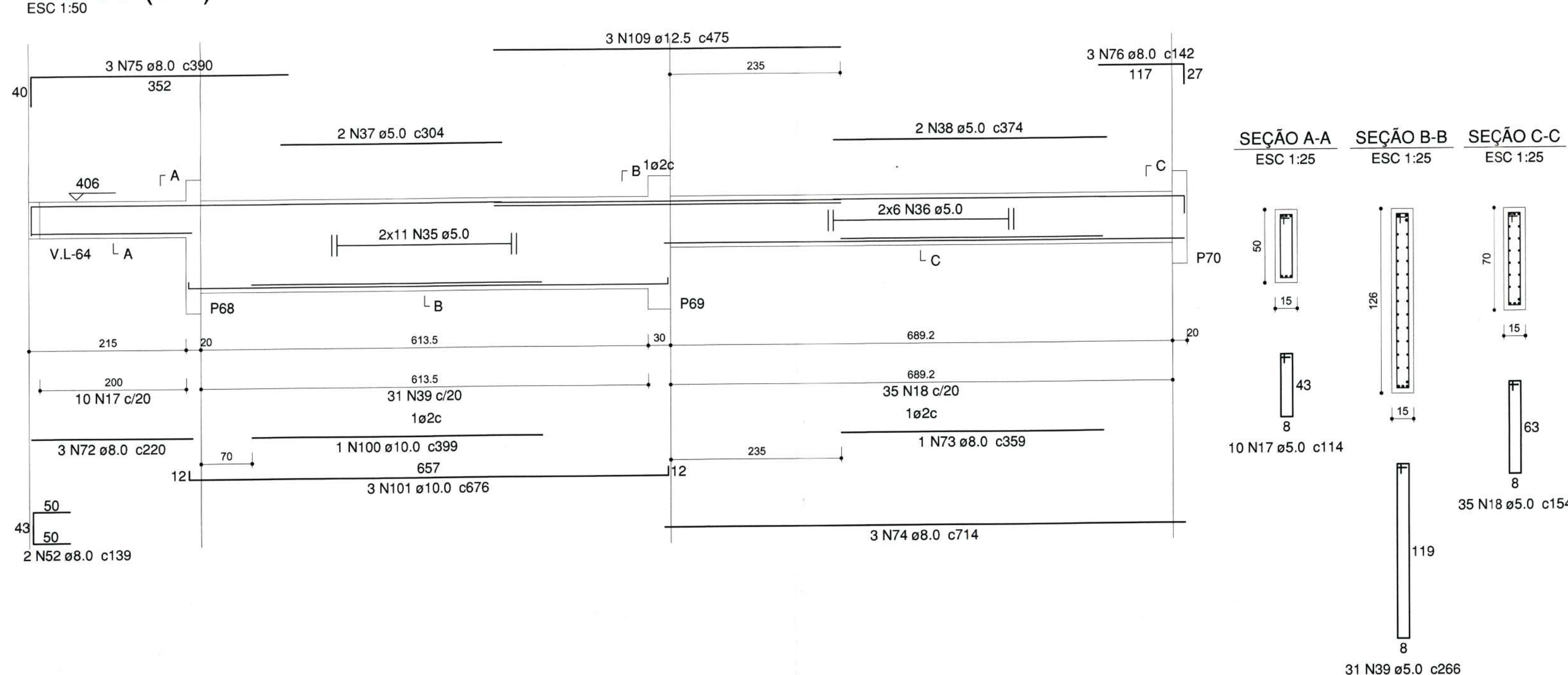
V.L-23 (var)



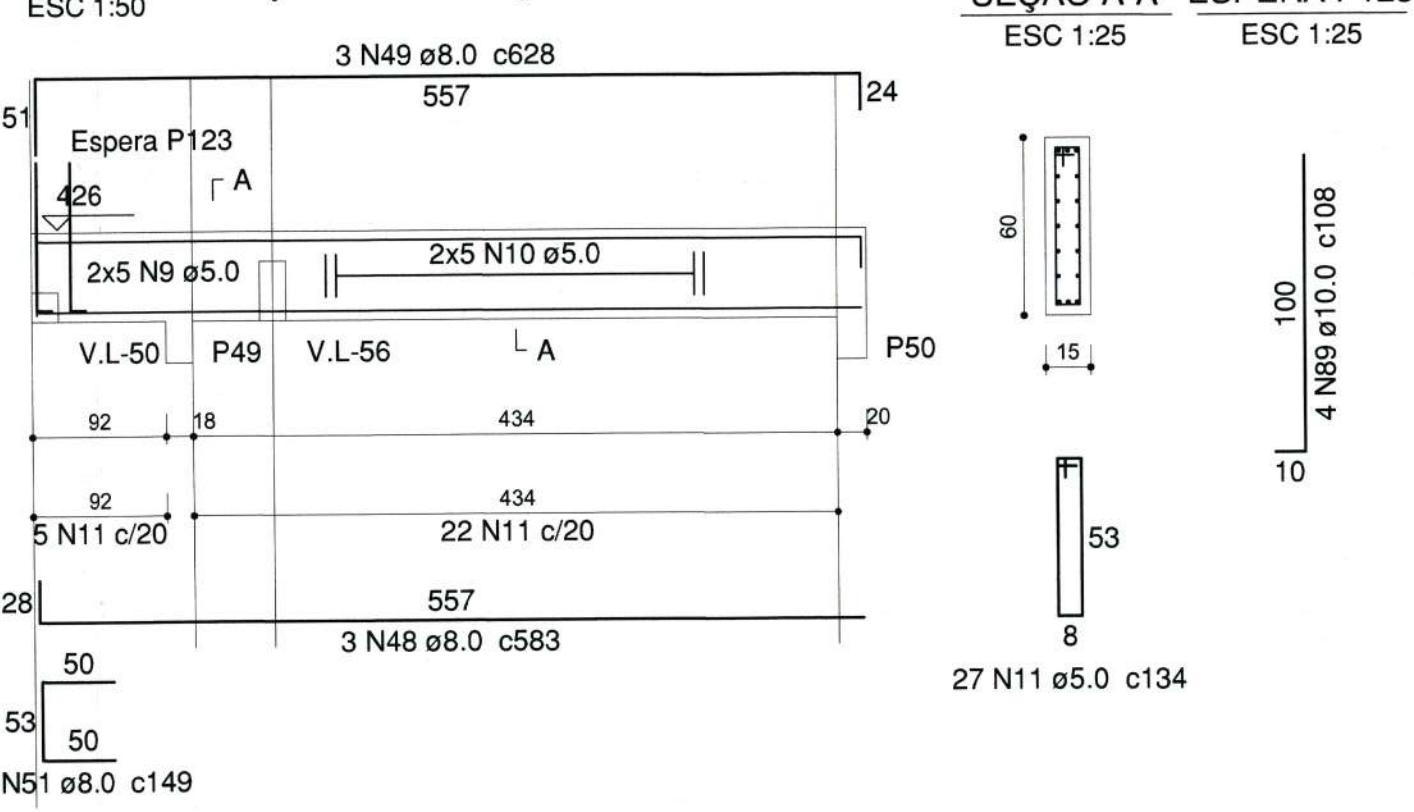
V.L-26 (var)



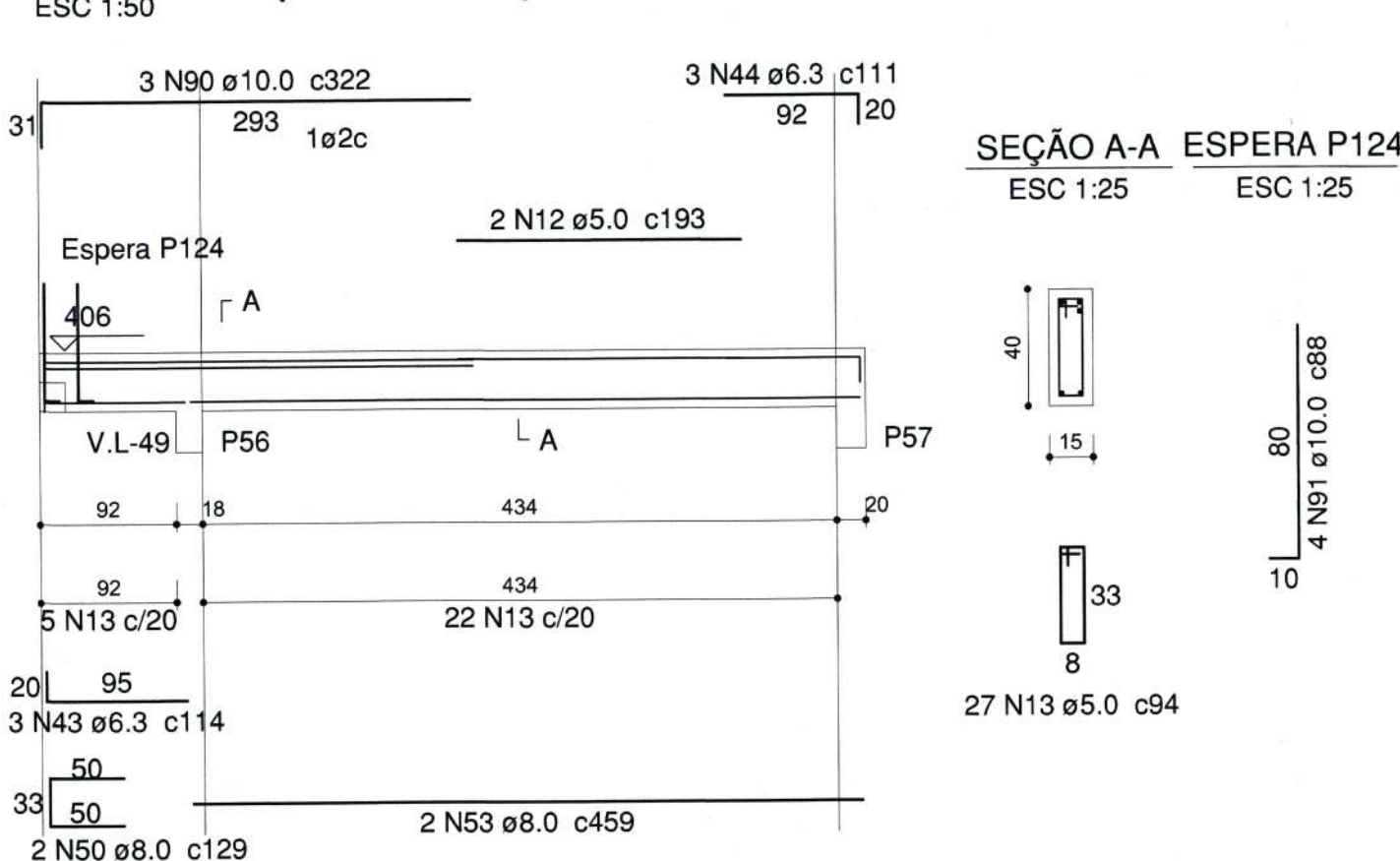
V.L-30 (var)



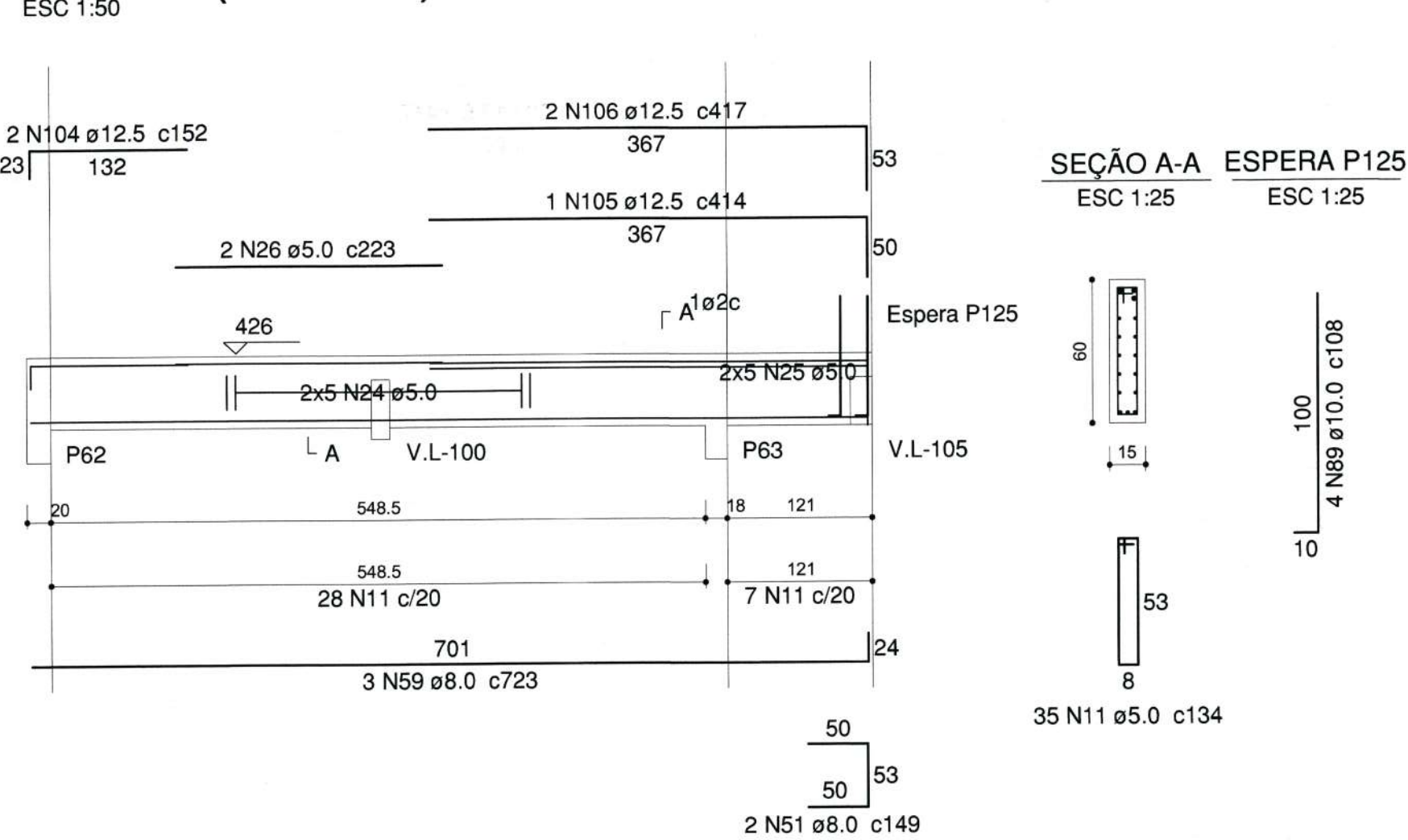
V.L-22 (15 x 60)



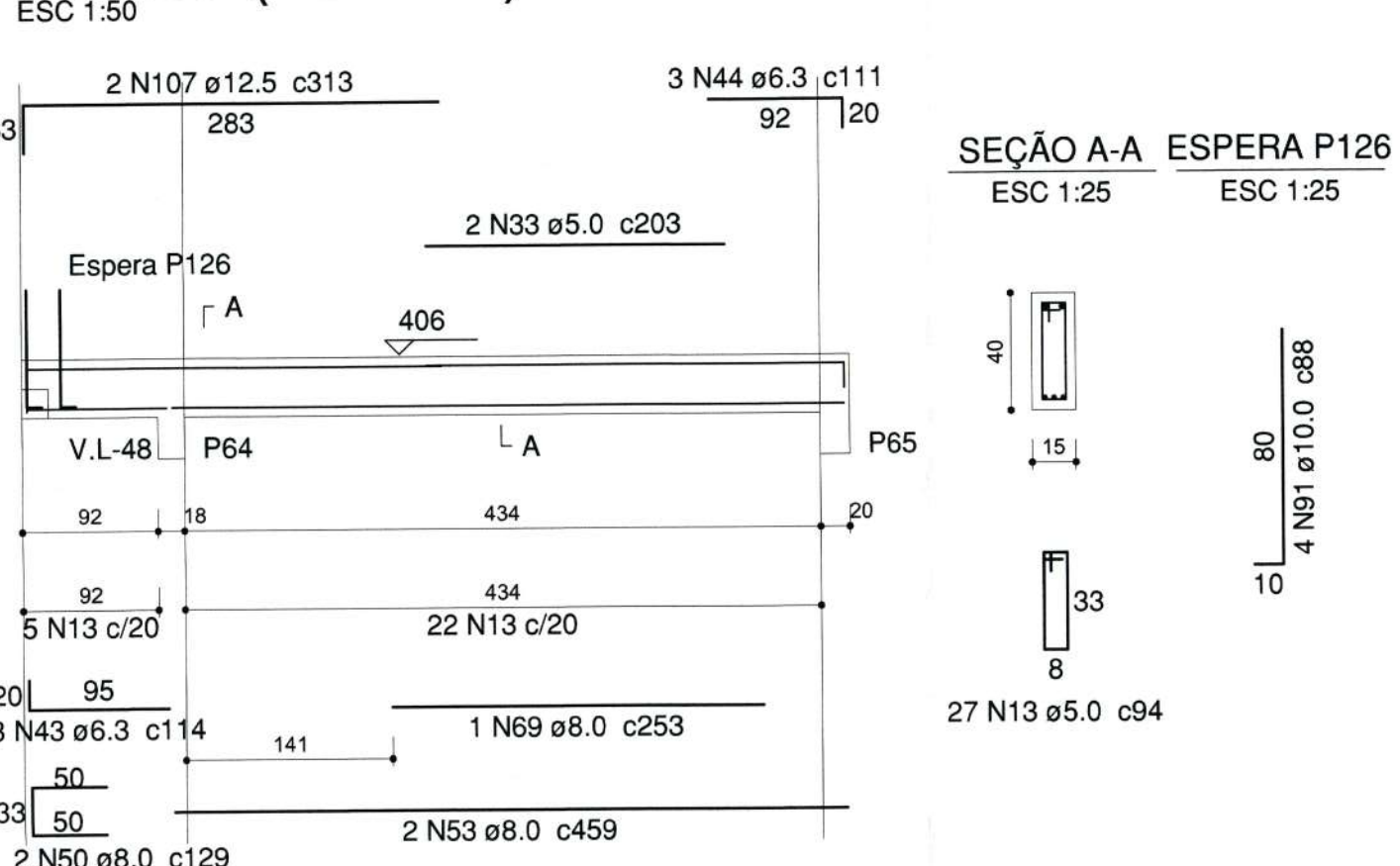
V.L-25 (15 x 40)



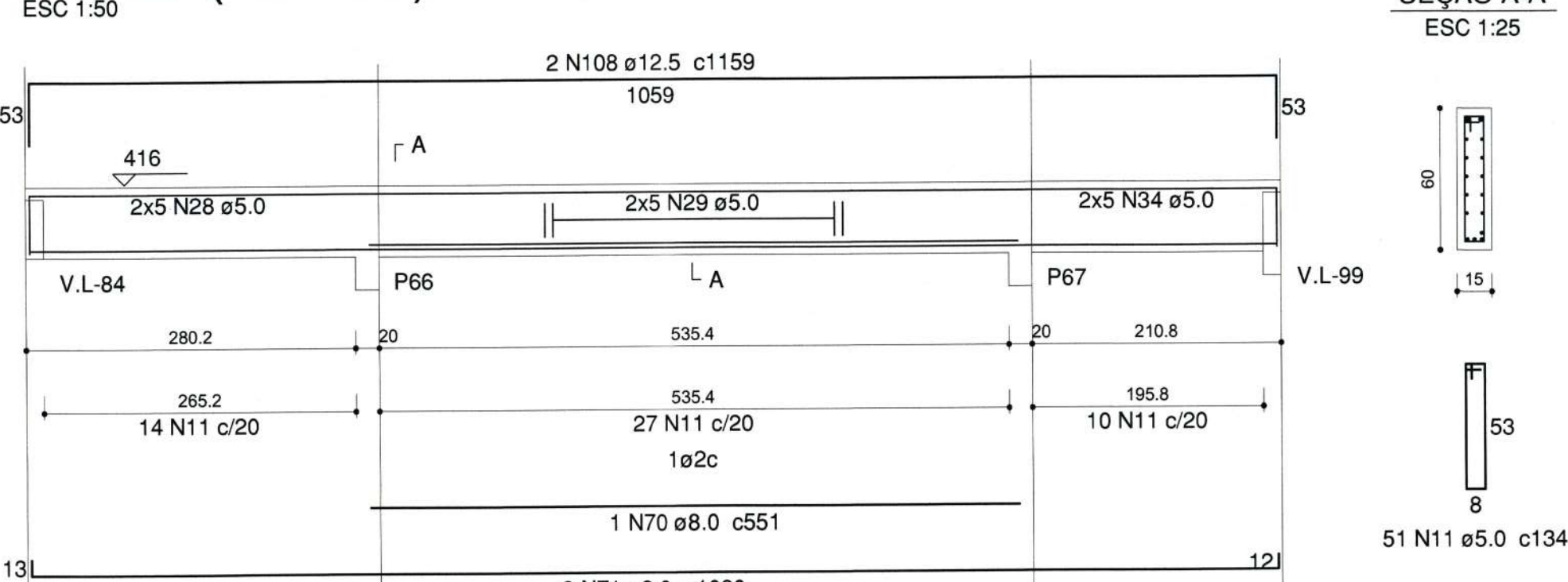
V.L-27 (15 x 60)



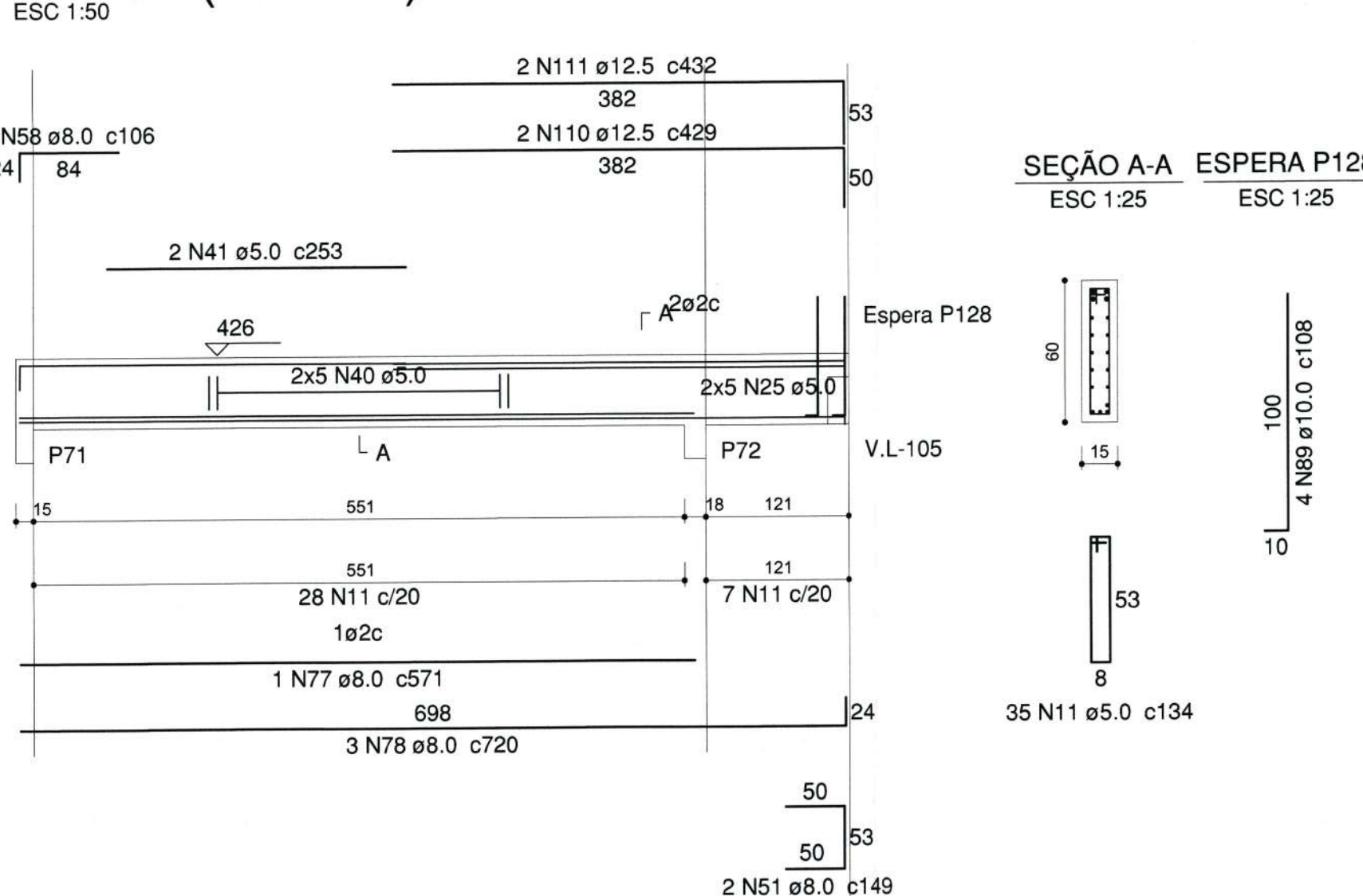
V.L-28 (15 x 40)



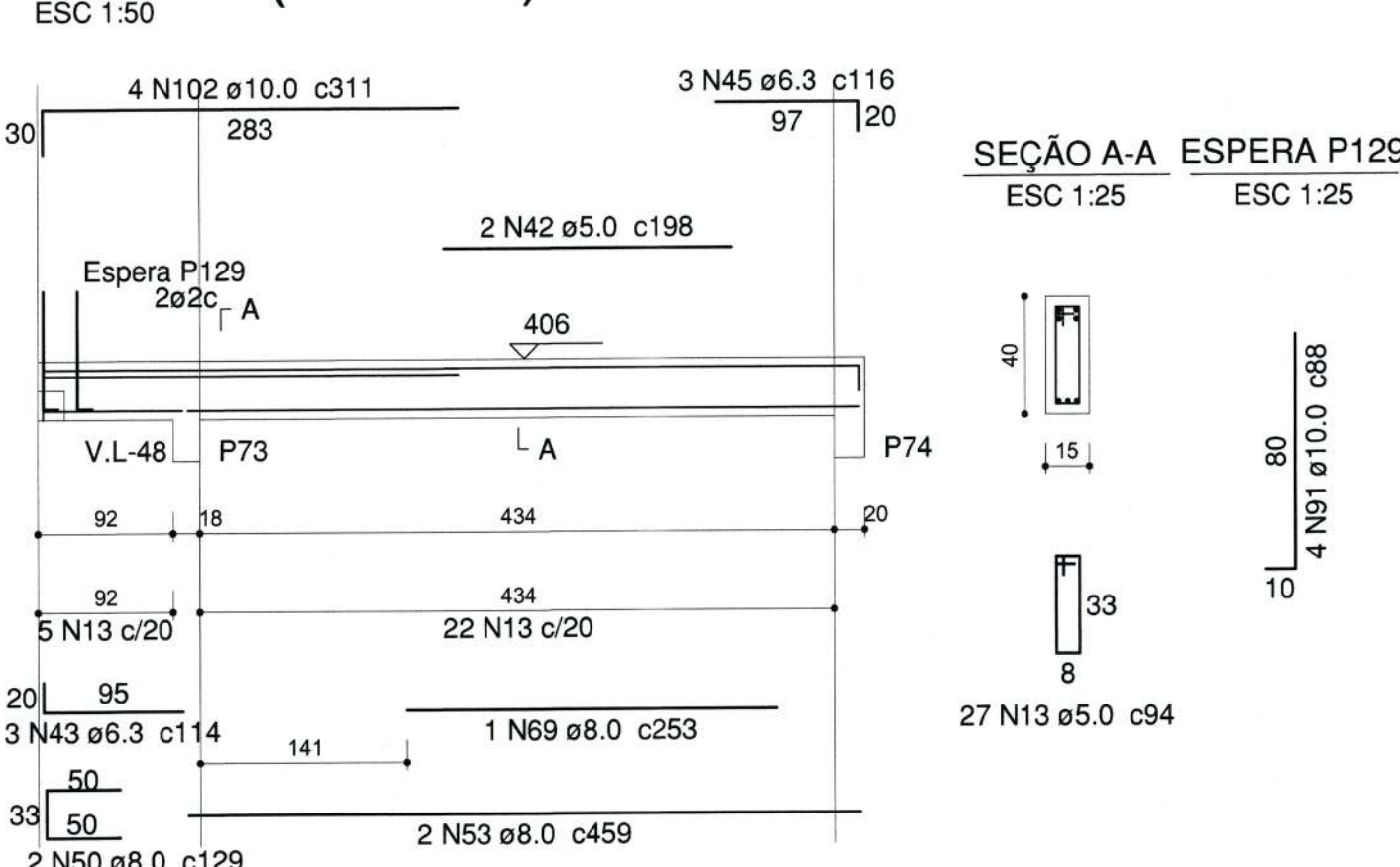
V.L-29 (15 x 60)



V.L-31 (15 x 60)



V.L-32 (15 x 40)



AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	CORR	7476
	2	5.0	12	CORR	6336
	3	5.0	12	CORR	6948
	4	5.0	12	CORR	6528
	5	5.0	2	355	710
	6	5.0	2	224	448
	7	5.0	2	271	542
	8	5.0	121	140	16940
	9	5.0	10	CORR	920
	10	5.0	10	CORR	4340
	11	5.0	283	134	37922
	12	5.0	2	193	386
	13	5.0	81	94	7614
	14	5.0	12	CORR	7512
	15	5.0	3	91	273
	16	5.0	2	281	562
	17	5.0	21	114	2394
	18	5.0	103	154	15862
	19	5.0	10	CORR	5260
	20	5.0	10	CORR	5780
	21	5.0	10	CORR	5460
	22	5.0	2	260	520
	23	5.0	2	276	552
	24	5.0	10	CORR	5490
	25	5.0	20	CORR	2420
	26	5.0	2	223	446
	27	5.0	12	CORR	8424
	28	5.0	20	CORR	5300
	29	5.0	20	CORR	10700
	30	5.0	10	CORR	1930
	31	5.0	2	467	934
	32	5.0	2	265	530
	33	5.0	2	374	748
	34	5.0	10	CORR	1960
	35	5.0	22	CORR	13508
	36	5.0	12	CORR	8268
	37	5.0	2	304	608
	38	5.0	2	374	748
	39	5.0	31	266	8246
	40	5.0	10	CORR	5510
	41	5.0	2	253	506
	42	5.0	2	198	396
	43	5.0	9	114	1028
CA50	44	6.3	6	111	666
	45	6.3	3	116	348
	46	8.0	2	380	760
	47	8.0	4	139	1092
	48	8.0	3	583	1749
	49	8.0	3	628	1884
	50	8.0	6	129	774
	51	8.0	6	149	894
	52	8.0	4	139	556
	53	8.0	6	459	2754
	54	8.0	3	238	714
	55	8.0	4	224	896
	56	8.0	3	553	1659
	57	8.0	3	565	1695
	58	8.0	6	106	636
	59	8.0	3	723	2169
	60	8.0	1	281	281
	61	8.0	1	300	300
	62	8.0	1	218	218
	63	8.0	2	1058	2116
	64	8.0	3	119	357
	65	8.0	1	270	270
	66	8.0	1	568	568
	67	8.0	2	608	1216
	68	8.0	3	407	1221
	69	8.0	2	253	506
	70	8.0	1	551	551
	71	8.0	3	1080	3240
	72	8.0	3	220	660
	73	8.0	1	359	359
	74	8.0	3	714	2142
	75	8.0	3	390	1170
	76	8.0	3	142	426
	77	8.0	1	571	571
	78	8.0	3	720	2160
	79	10.0	1	599	599
	80	10.0	2	1152	2304
	81	10.0	2	566	1132
	82	10.0	2	152	304
	83	10.0	1	190	190
	84	10.0	1	430	430
	85	10.0	2	908	1816
	86	10.0	2	435	870
	87	10.0	2	441	882
	88	10.0	2	130	260
	89	10.0	16	108	1728
	90	10.0	3	322	966
	91	10.0	12	88	1056
	92	10.0	3	668	2004
	93	10.0	3	442	1326
	94	10.0	3	598	1794
	95	10.0	1	132	132
	96	10.0	1	205	205
	97	10.0	2	758	1516
	98	10.0	1	442	442
	99	10.0	2	735	1470
	100	10.0	1	399	399
	101	10.0	3	676	2028
	102	10.0	4	311	1244
	103	12.5	2	410	820
	104	12.5	2	152	304
	105	12.5	1	414	414
	106	12.5	2	417	834
	107	12.5	2	313	626
	108	12.5	2	1159	2318
	109	12.5	3	475	1425
	110	12.5	2	429	858
	111	12.5	2	432	864

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	20.4	5.5
	8.0	367.7	159.6
	10.0	251	170.2
	12.5	84.7	89.7
CA60	5.0	2176.2	369
PESO TOTAL (kg)			
CA50	424.9		
CA60	369		

Volume de concreto (C-30) = 11.73 m³
Área de forma = 144.03 m²

OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAISO

Composto: Vigas lajes - 2

Autores: ALEXANDRE ENOCH DE ALMEIDA, LUIZ ALVES DE ALMEIDA

Co-Autor: Alexandre

Representante: Secretaria da Saúde

Indicada: Alexandre

Código: UBF/Subsfp.SCO

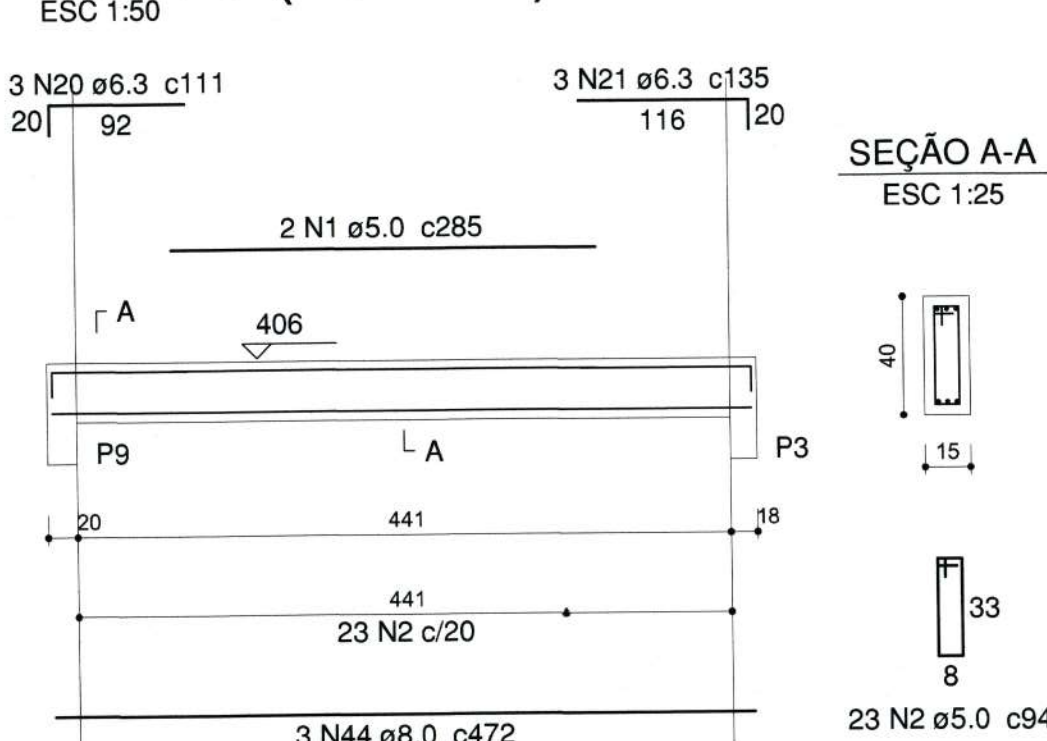
Data: 04/2020

Assinatura: Alexandre

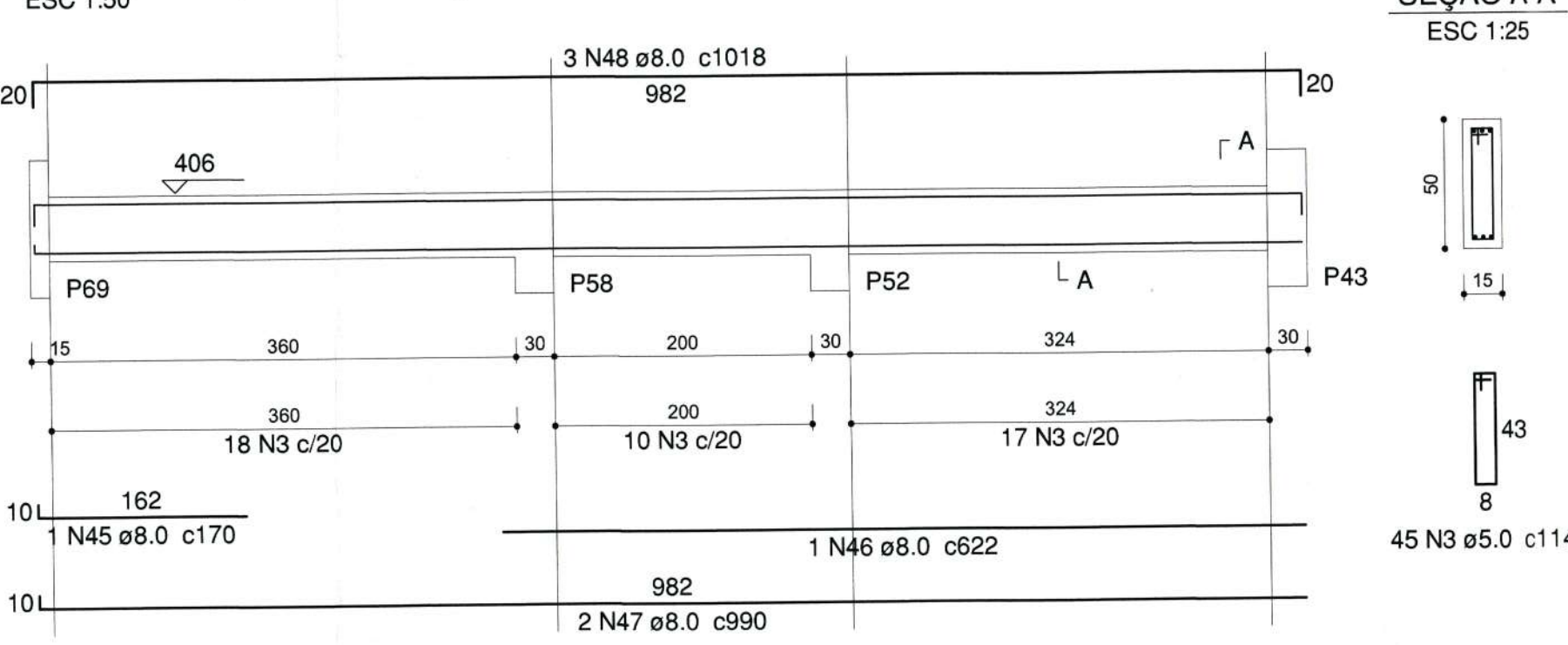
Assinatura: Alexandre

Assinatura: Alexandre

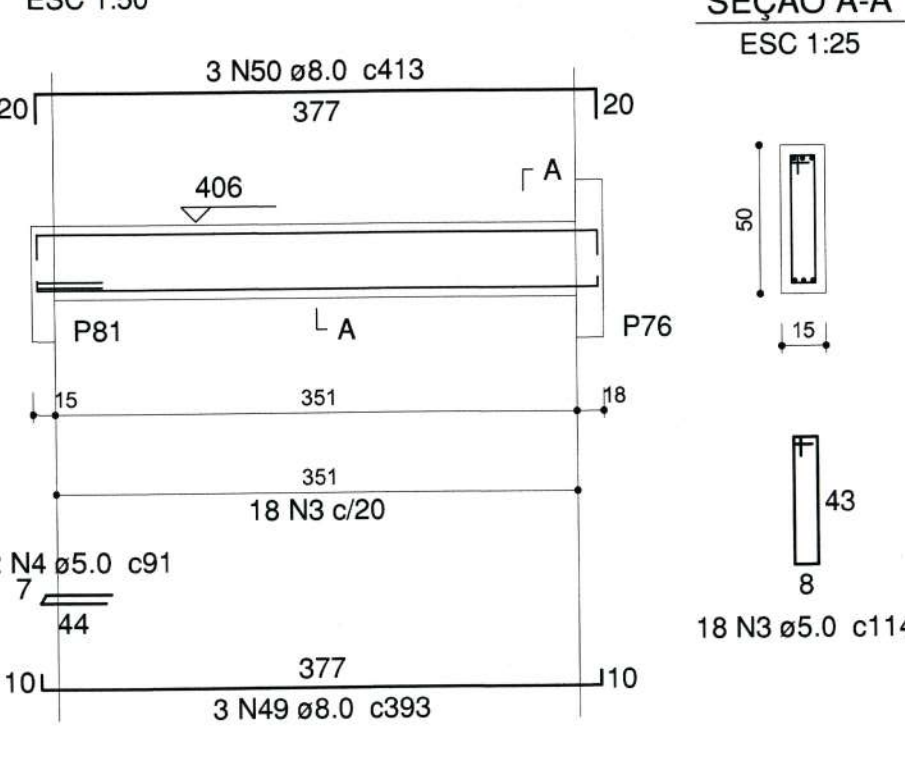
V.L-73 (15 x 40)



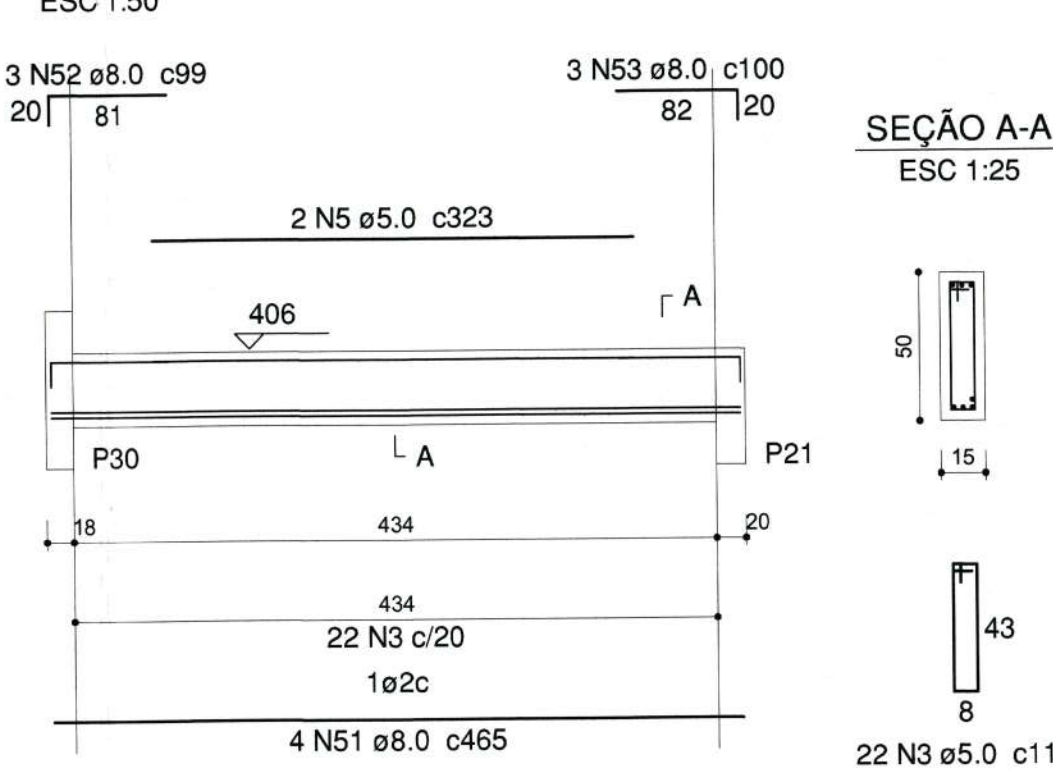
V.L-74 (15 x 50)



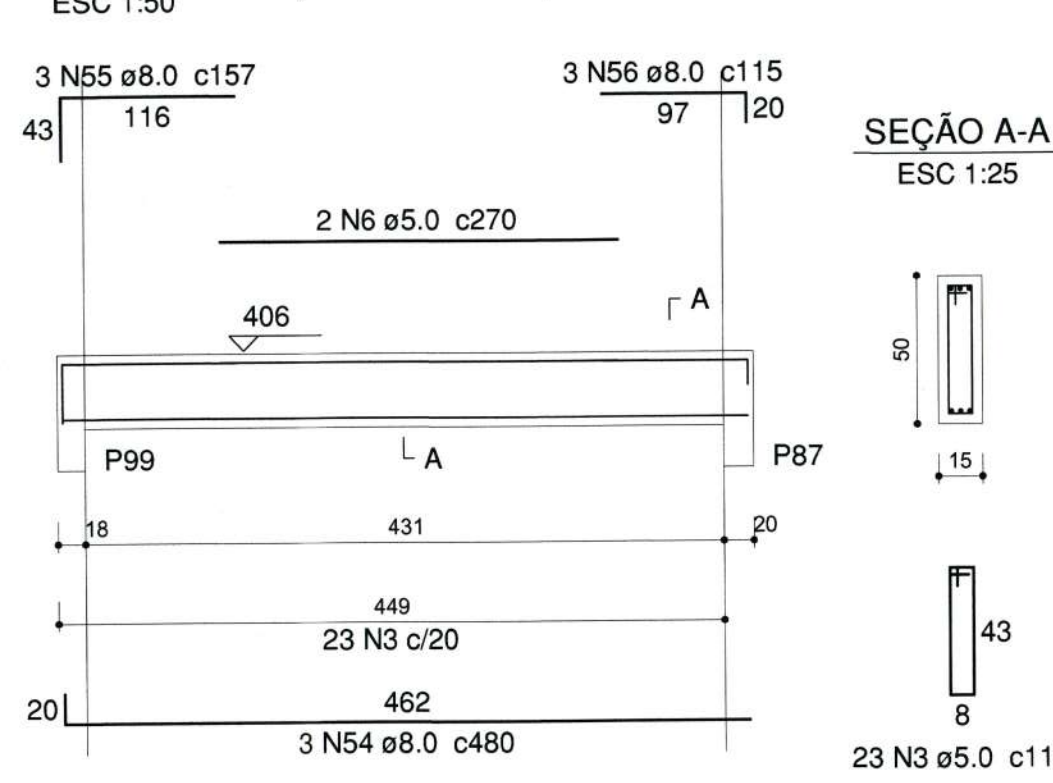
V.L-75 (15 x 50)



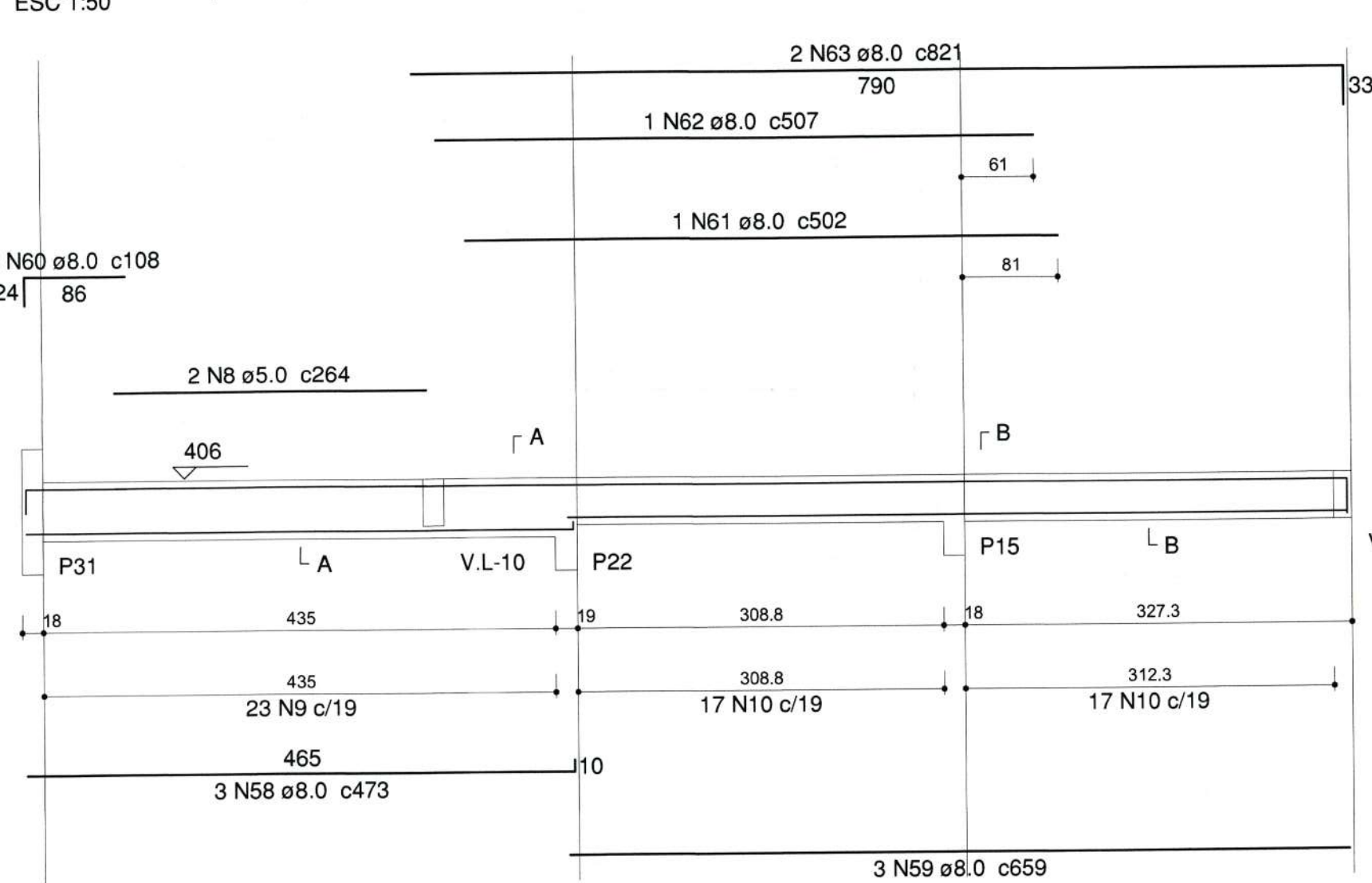
V.L-76 (15 x 50)



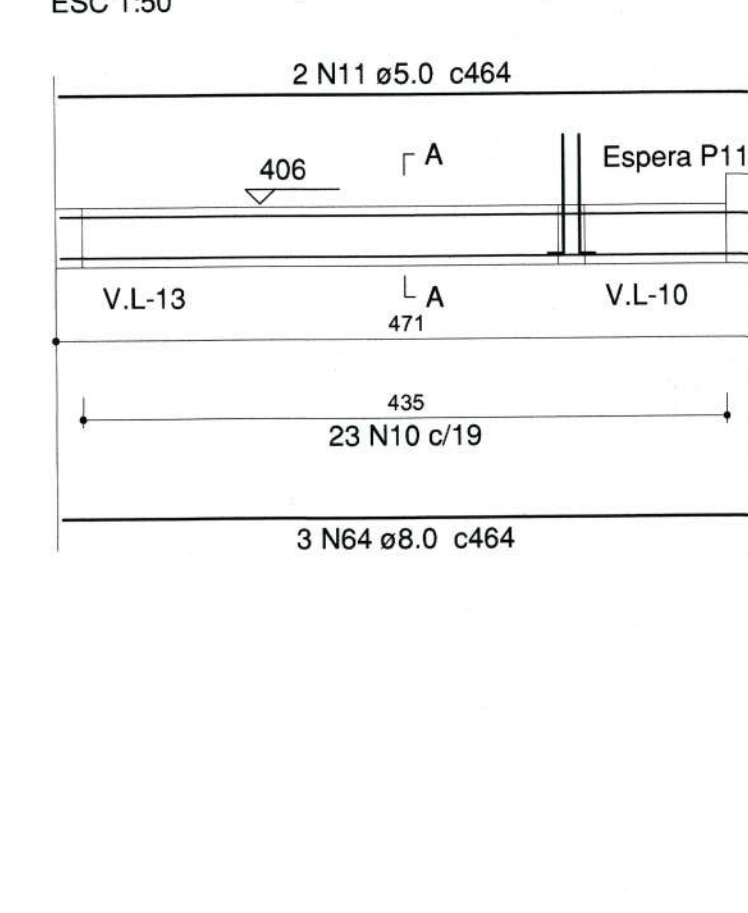
V.L-77 (15 x 50)



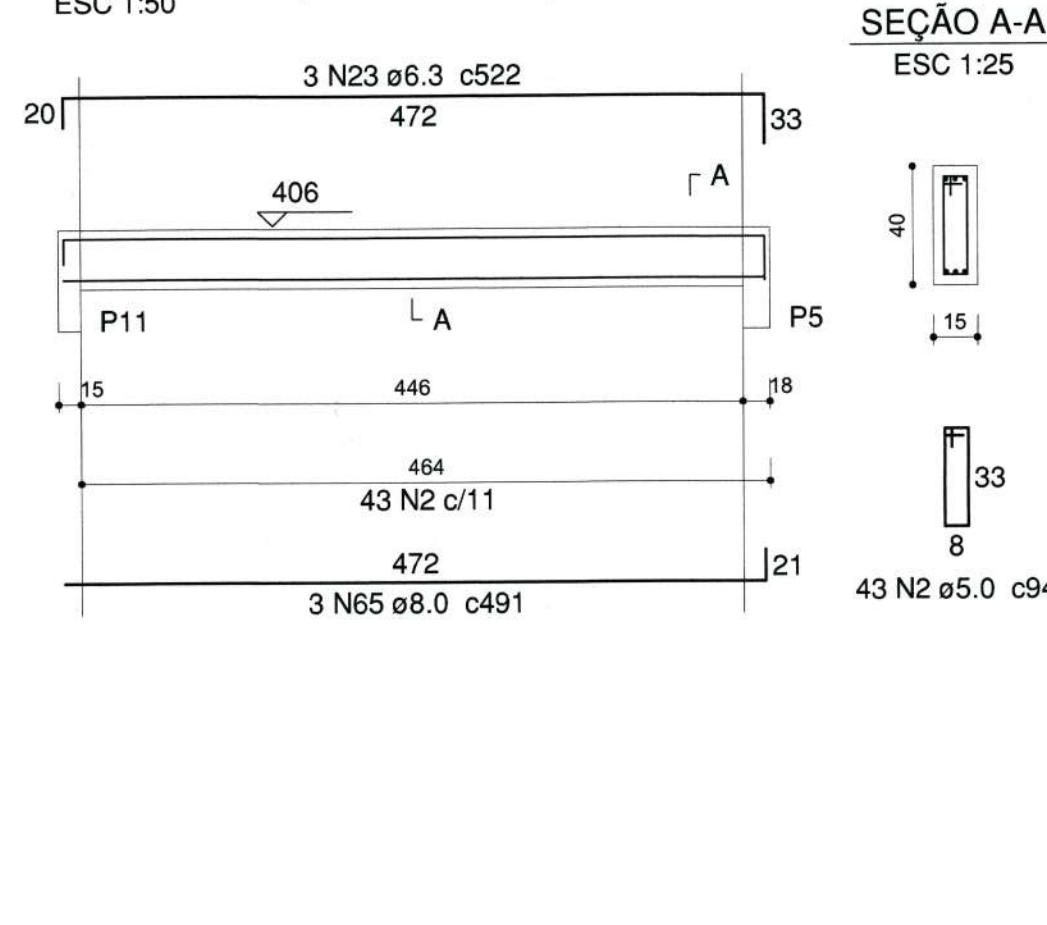
V.L-80 (var)



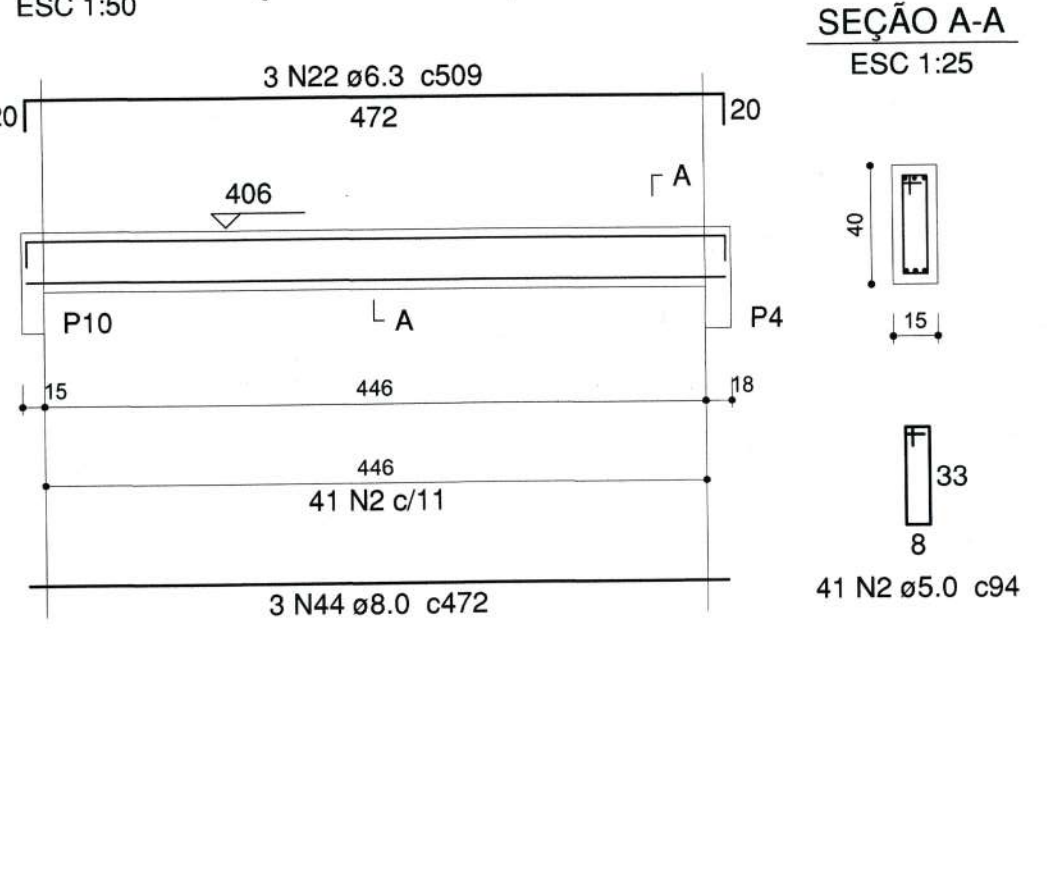
V.L-81 (18 x 40)



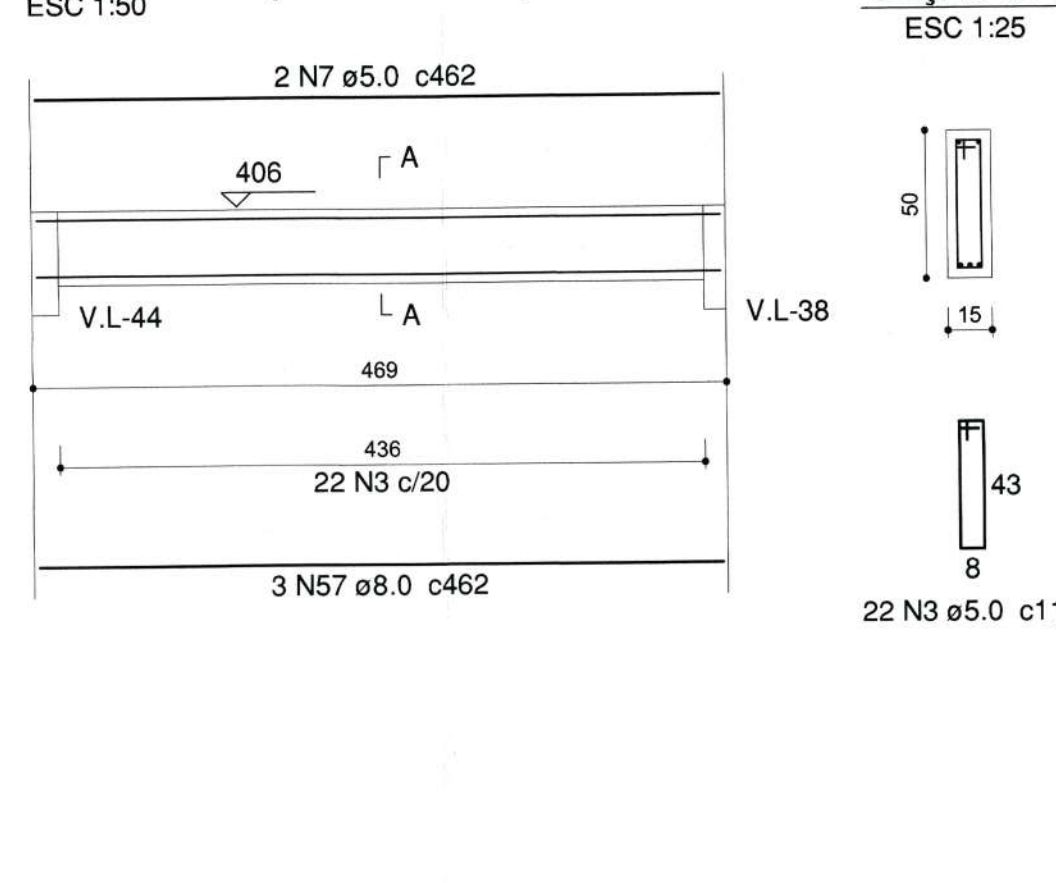
V.L-82 (15 x 40)



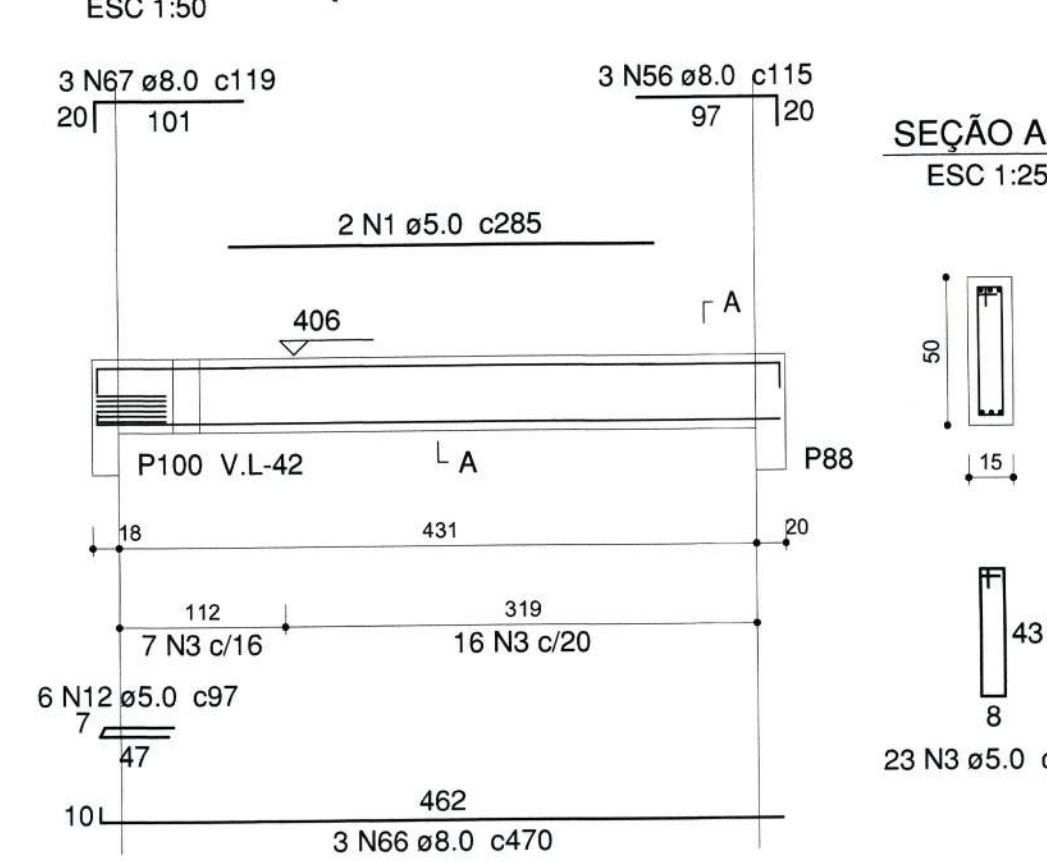
V.L-78 (15 x 40)



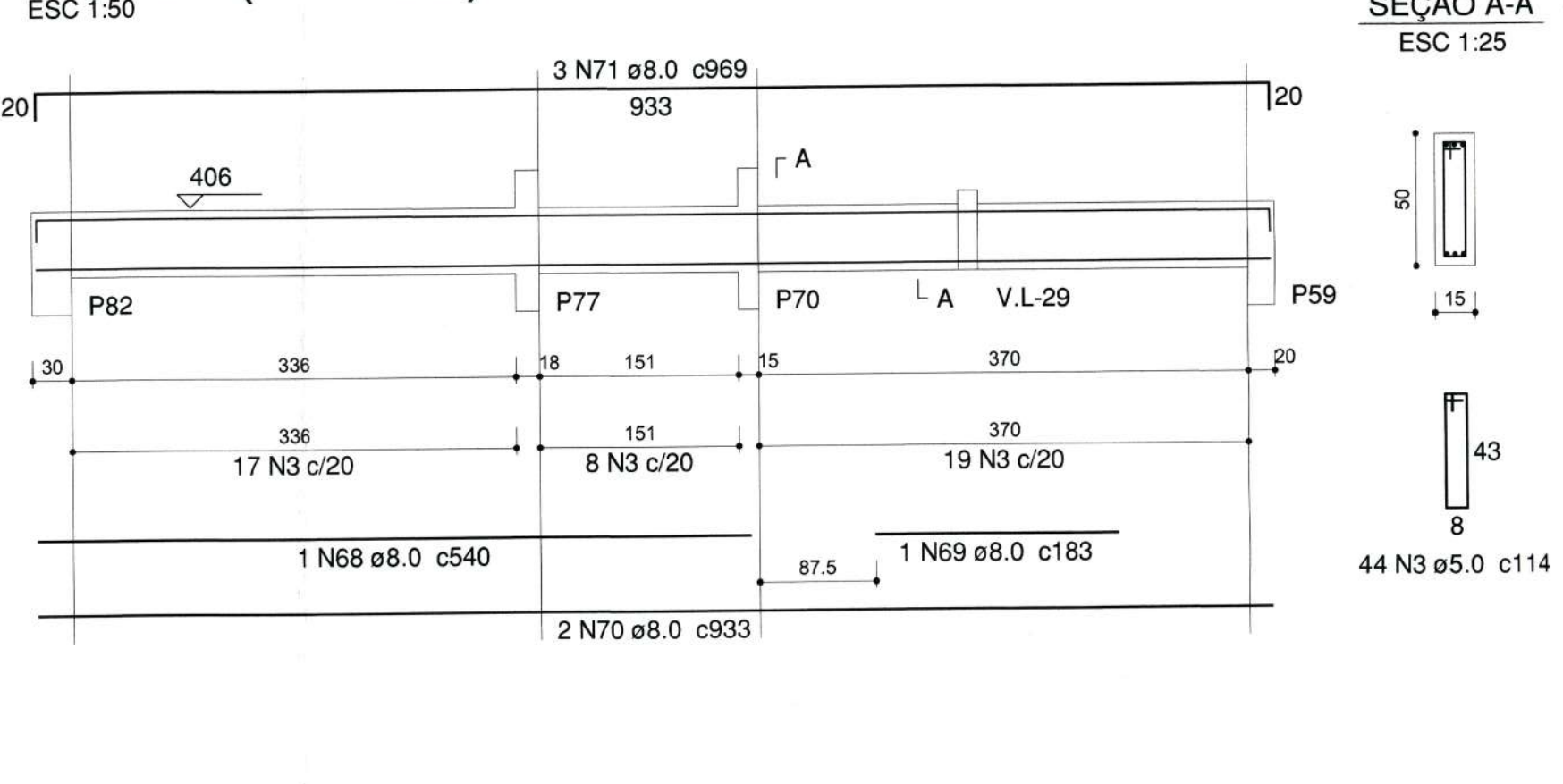
V.L-79 (15 x 50)



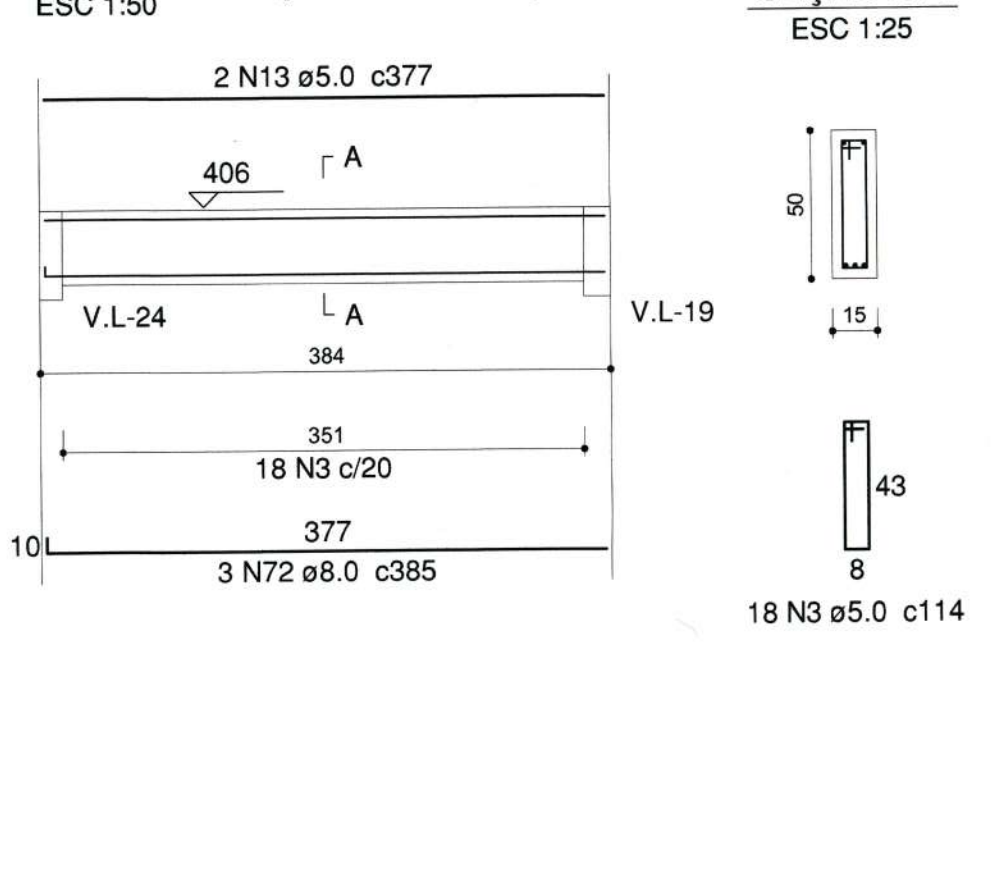
V.L-83 (15 x 50)



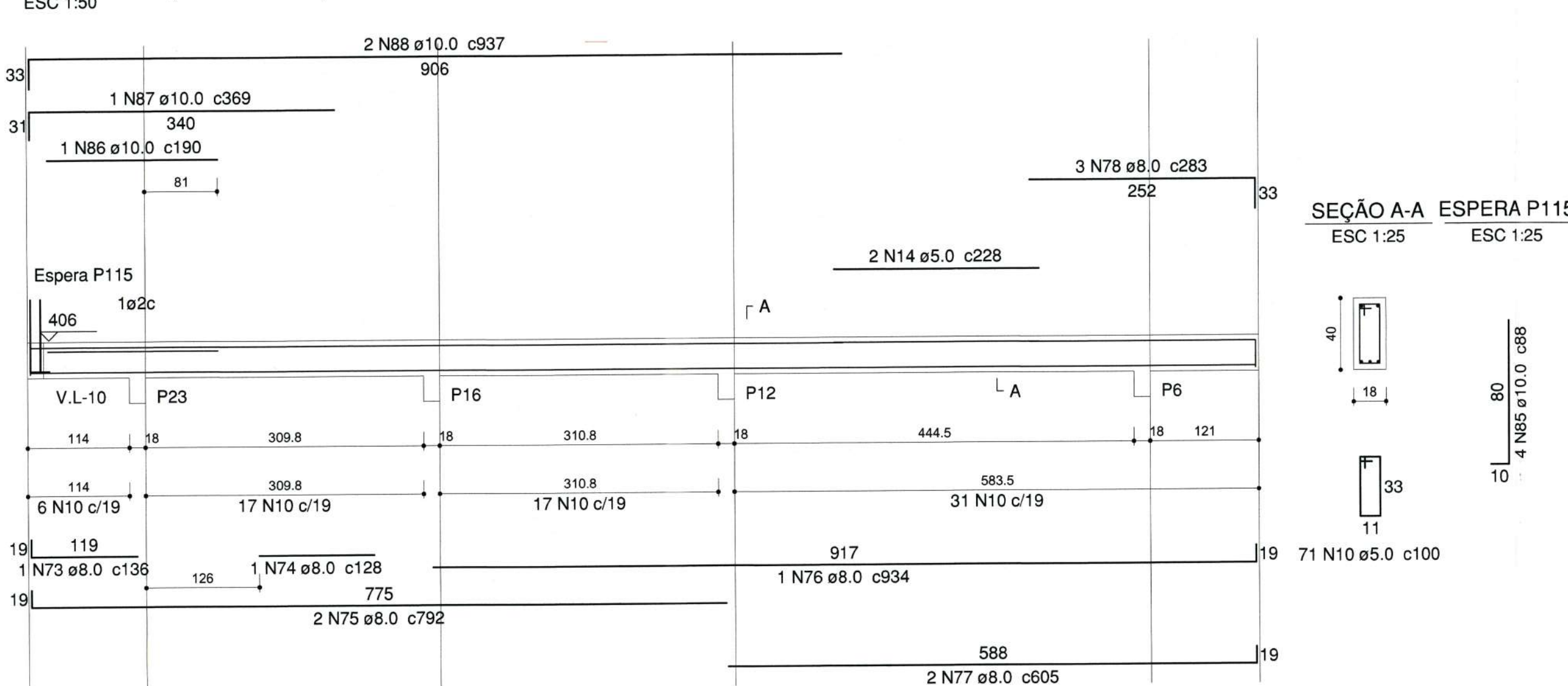
V.L-84 (15 x 50)



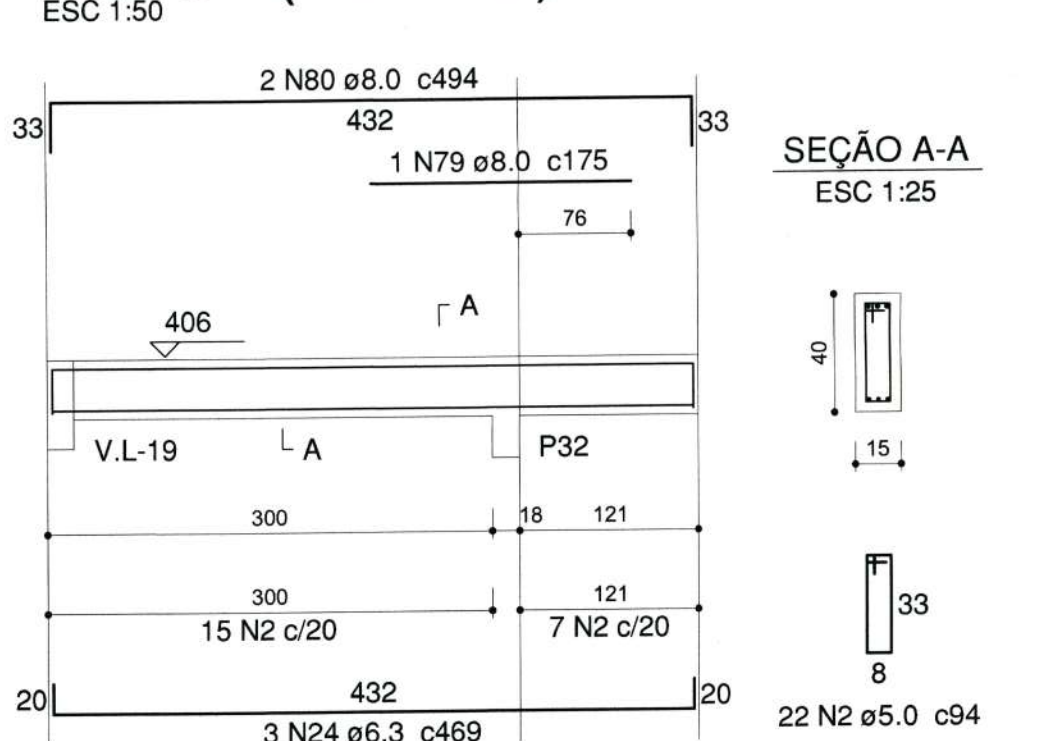
V.L-85 (15 x 50)



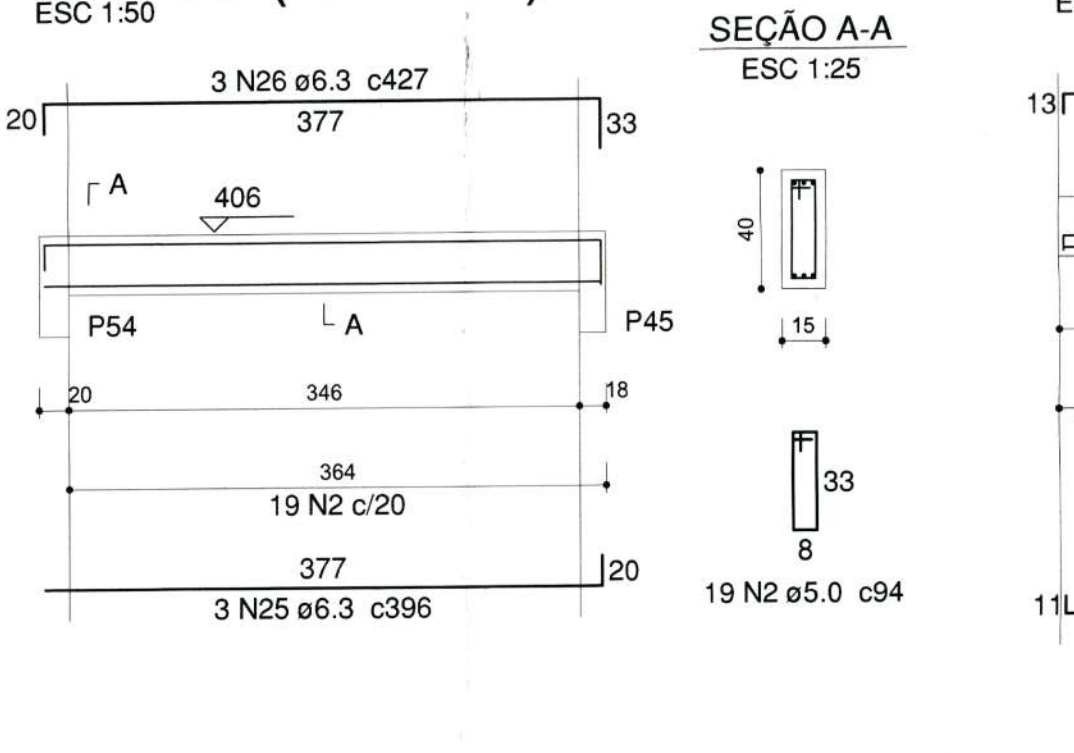
V.L-86 (18 x 40)



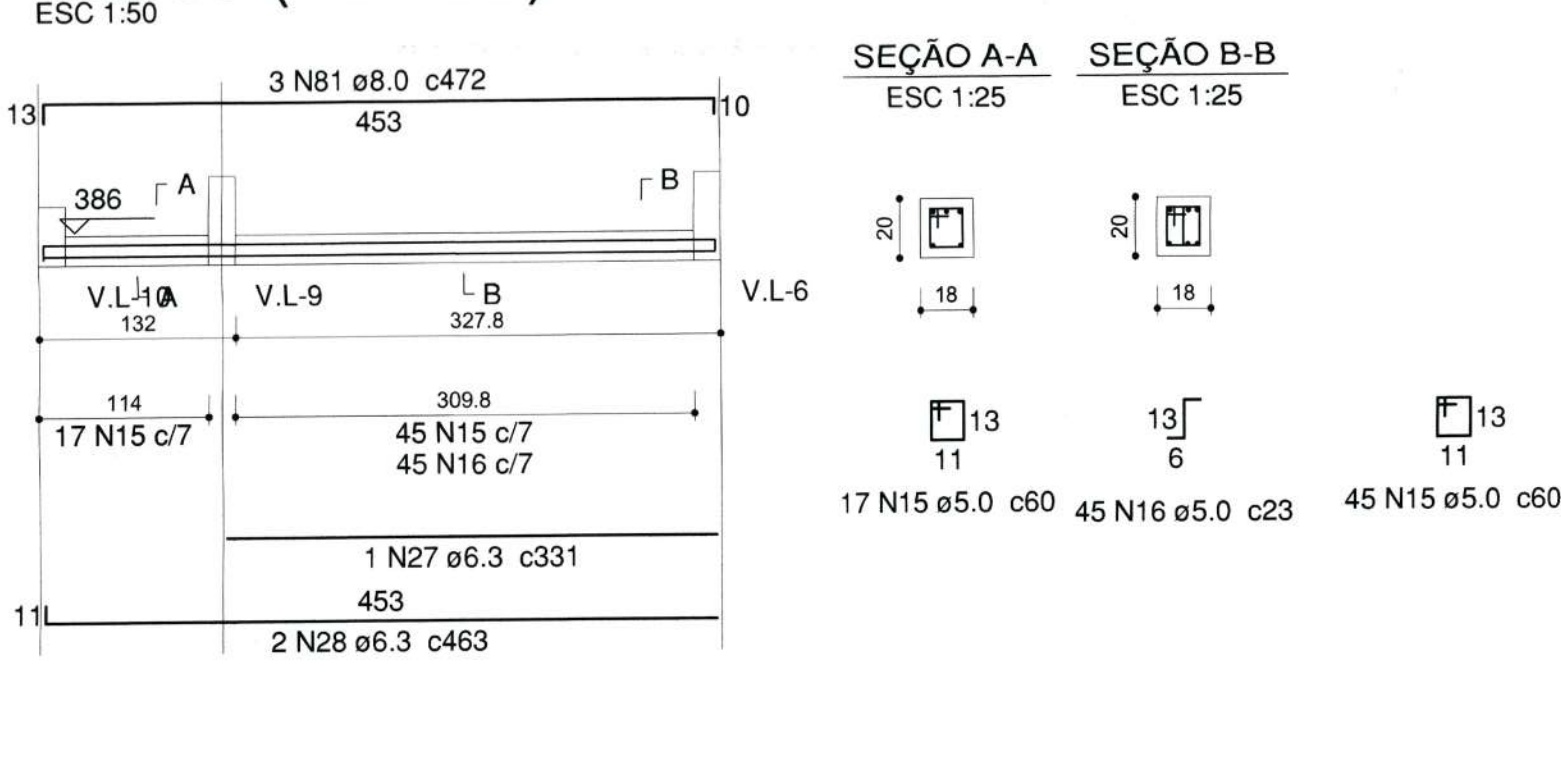
V.L-87 (15 x 40)



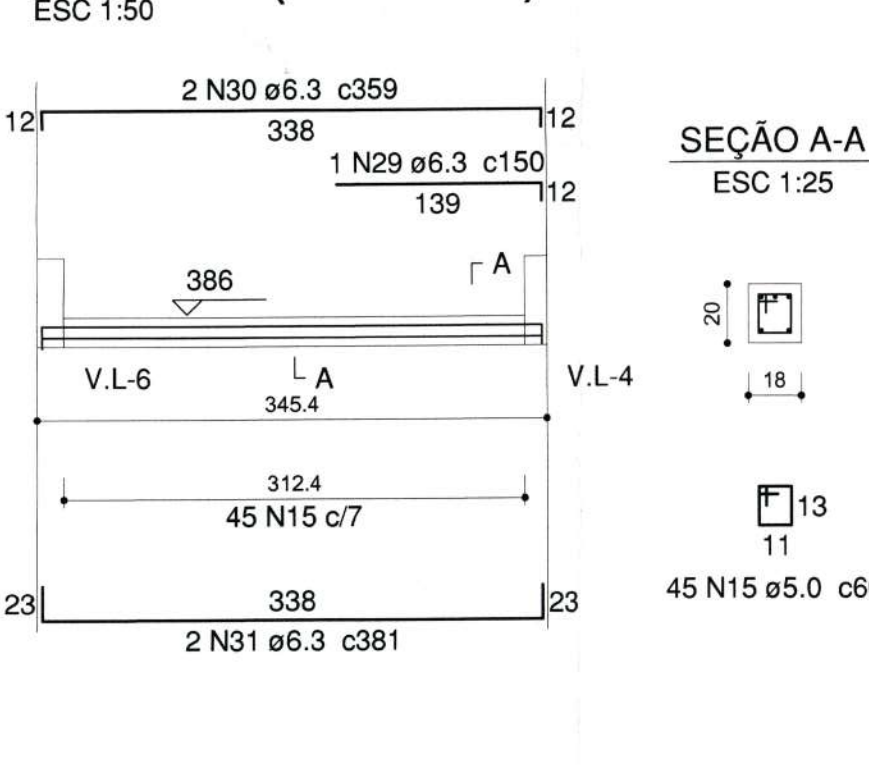
V.L-88 (15 x 40)



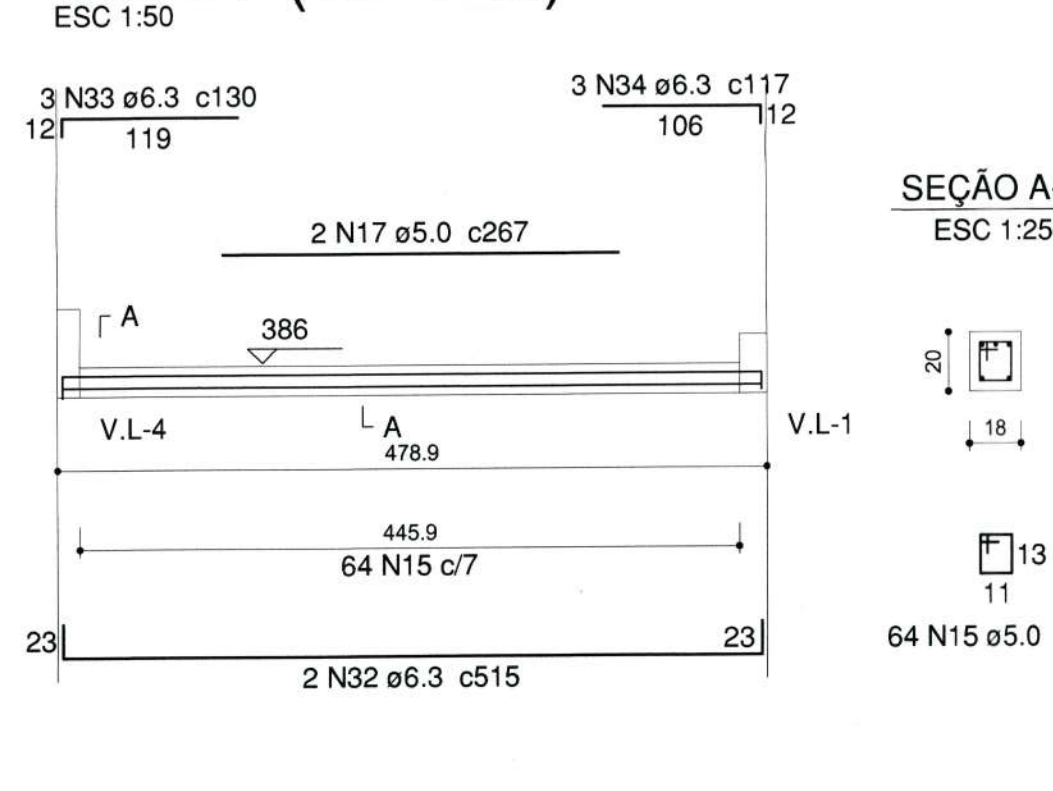
V.L-89 (18 x 20)



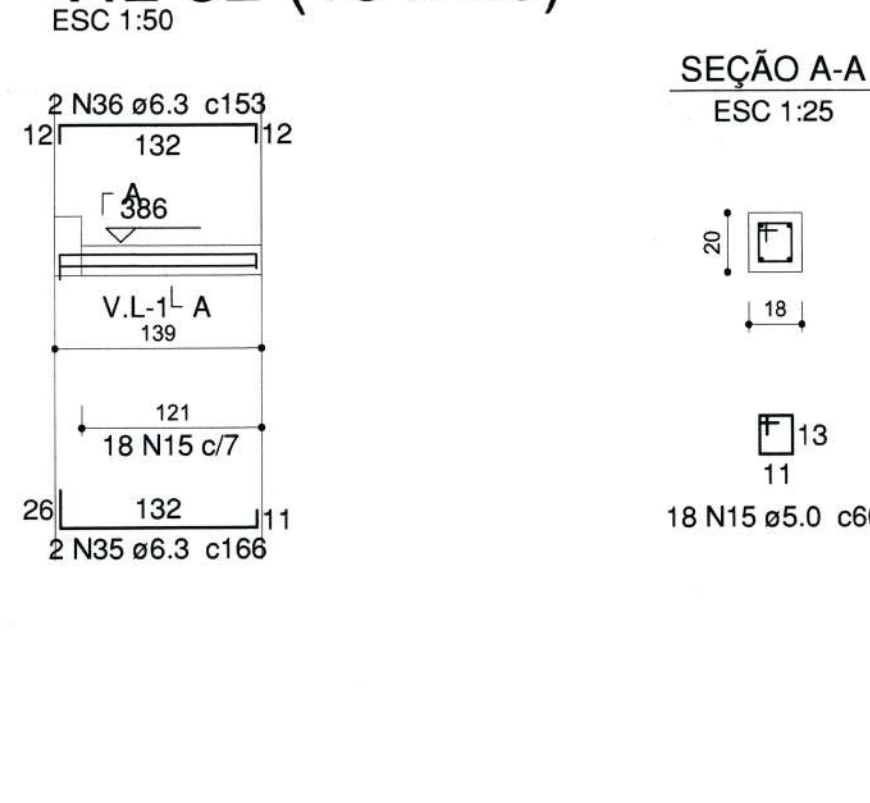
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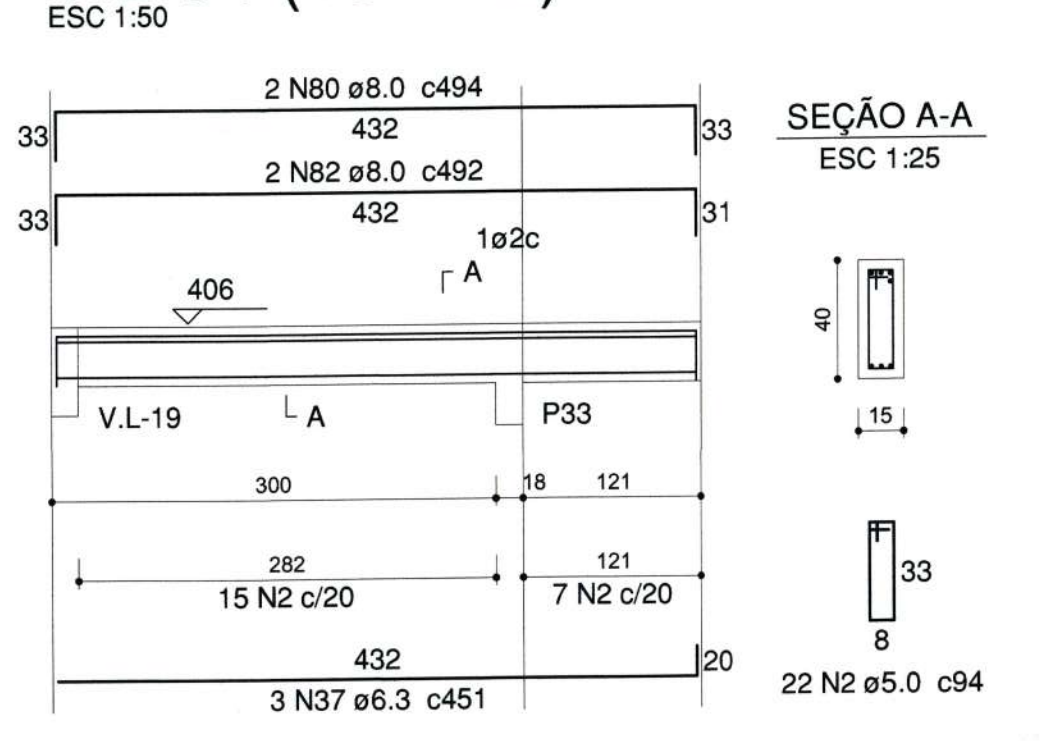
V.L-91 (18 x 20)



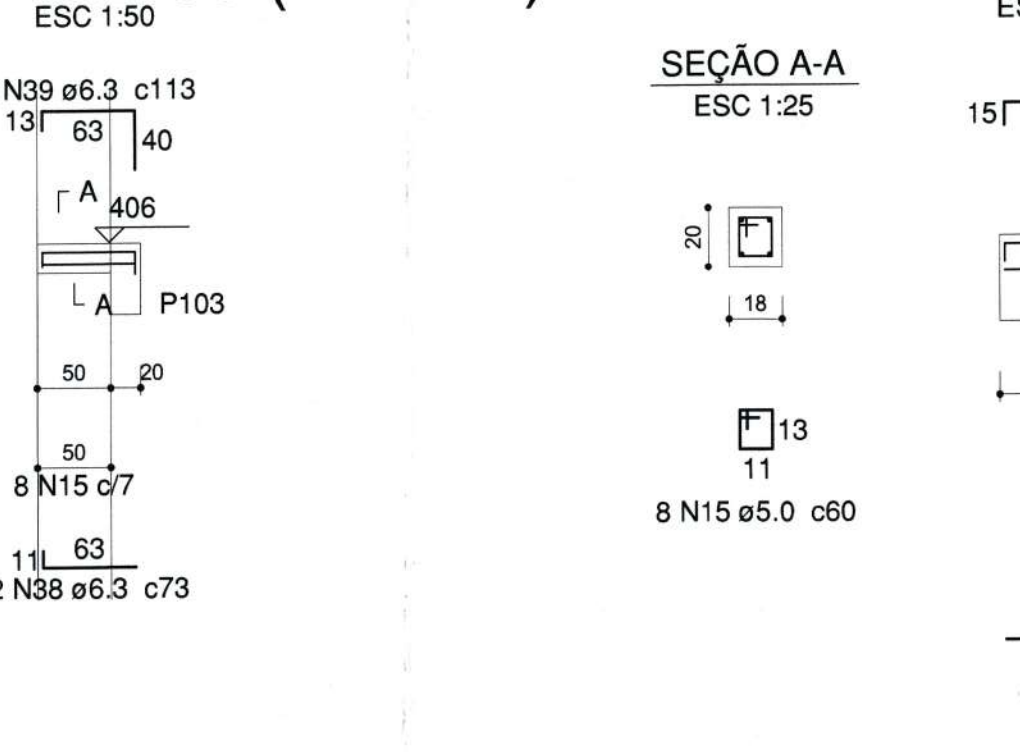
V.L-92 (18 x 20)



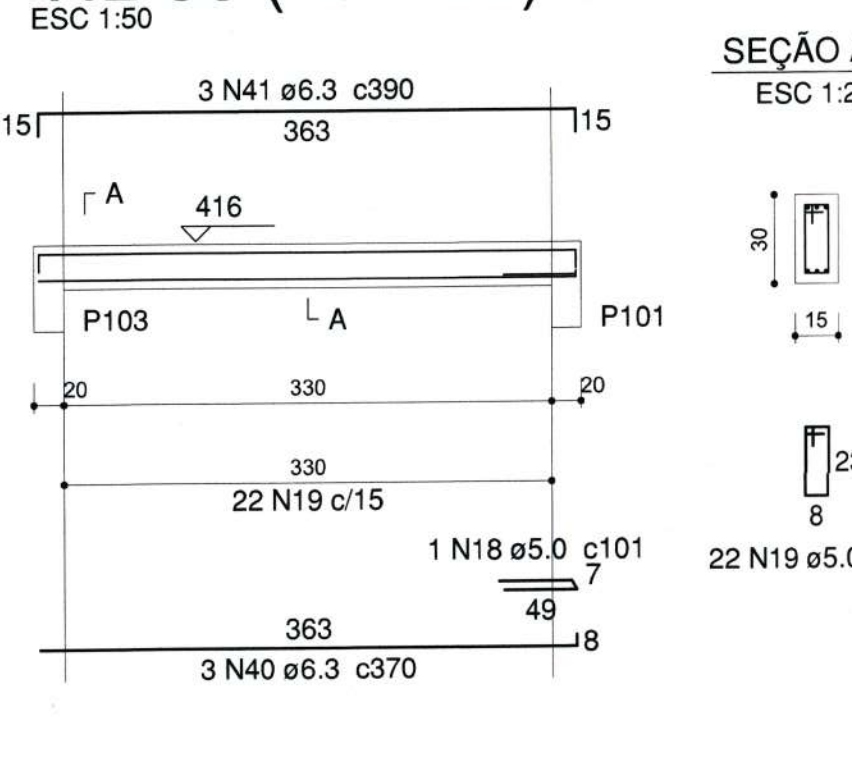
V.L-94 (15 x 40)



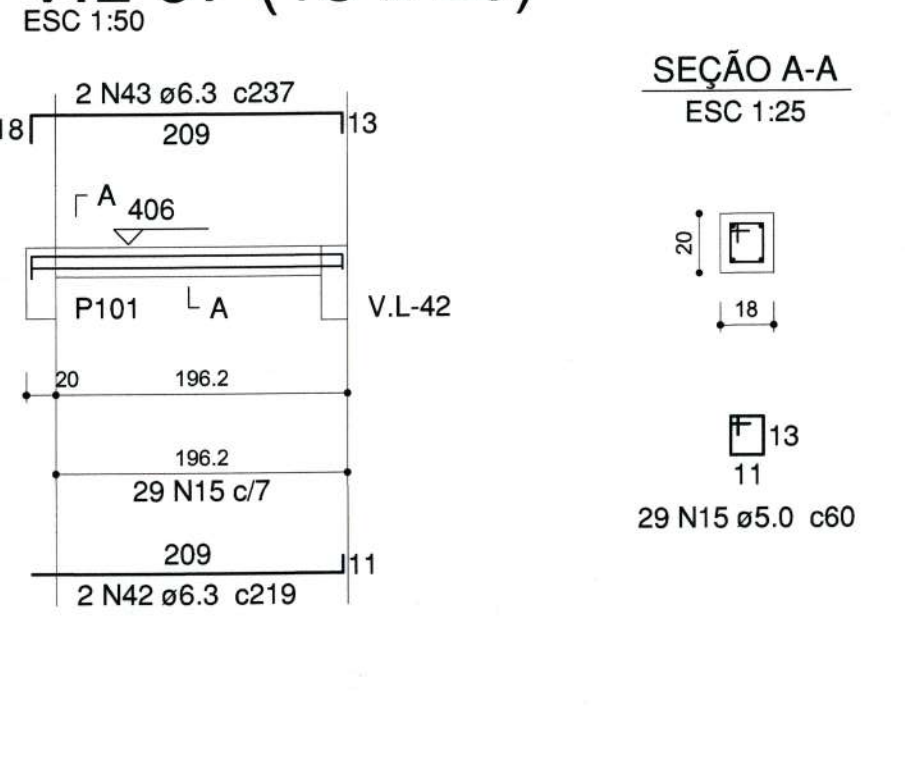
V.L-95 (18 x 20)



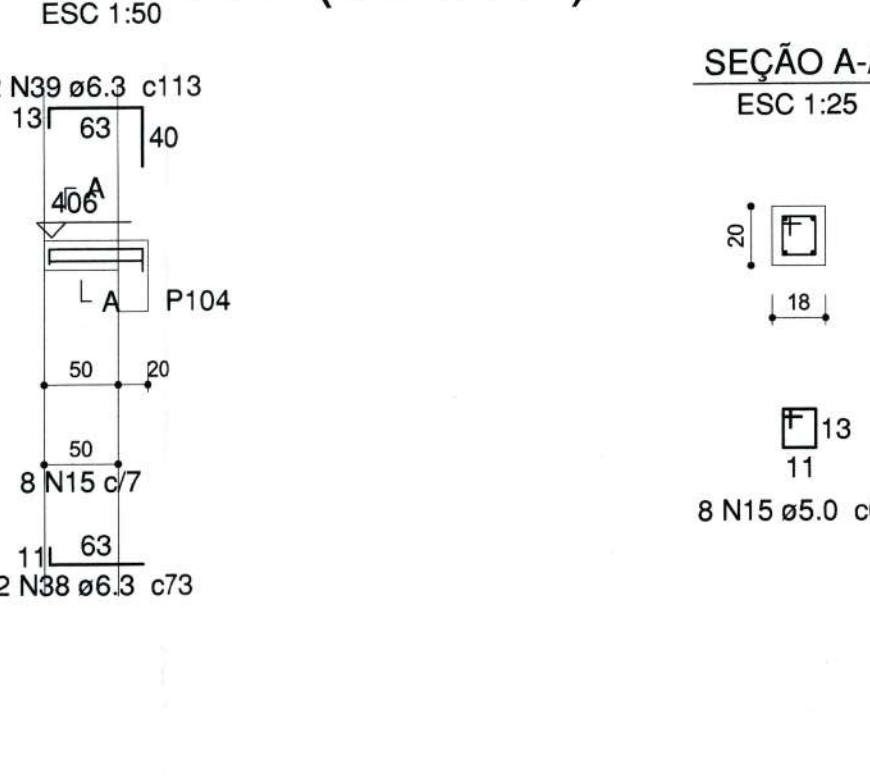
V.L-96 (15 x 30)



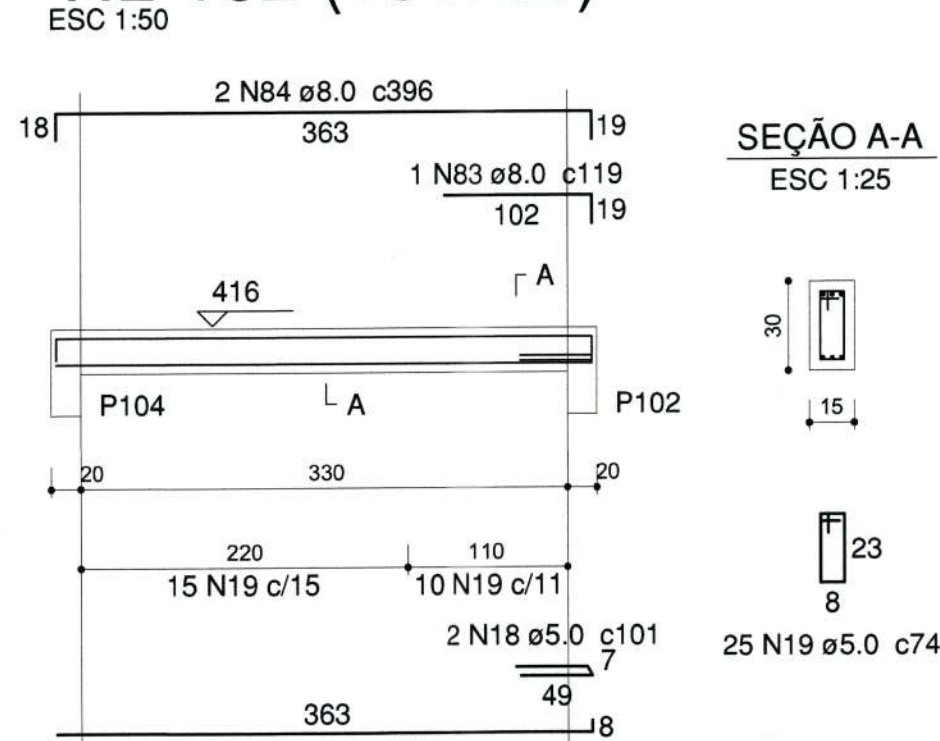
V.L-97 (18 x 20)



V.L-101 (18 x 20)



V.L-102 (15 x 30)



ACO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	4	285	1140
	2	5.0	170	94	15980
	3	5.0	215	114	24510
	4	5.0	2	91	182
	5	5.0	2	323	646
	6	5.0	2	270	540
	7	5.0	2	462	924
	8	5.0	2	264	528
	9	5.0	23	120	2760
	10	5.0	128	100	12800
	11	5.0	2	464	928
	12	5.0	6	97	582
	13	5.0	2	377	754
	14	5.0	2	228	456
	15	5.0	234	60	14040
	16	5.0	23	1035	23805
	17	5.0	2	267	534
	18	5.0	3	101	303
	19	5.0	47	74	3478
	20	6.3	3	111	333
CA50	21	6.3	3	135	405
	22	6.3	3	509	1527
	23	6.3	3	522	1566
	24	6.3	3	469	1407
	25	6.3	3	396	1188
	26	6.3	3	427	1281
	27	6.3	1	331	331
	28	6.3	2	463	926
	29	6.3	1	150	150
	30	6.3	2	359	718
	31	6.3	2	361	722
	32	6.3	2	515	1030
	33	6.3	3	130	390
	34	6.3	3	117	351
	35	6.3	2	166	332
	36	6.3	2	153	306
	37	6.3	3	451	1353
	38	6.3	4	73	292
	39	6.3	4	113	452
	40	6.3	6	370	2220
	41	6.3	3	390	1170
	42	6.3	2	219	438
	43	6.3	2	237	474
	44	8.0	6	472	2832
	45	8.0	1	170	170
	46	8.0	1	622	622
	47	8.0	2	990	1980
	48	8.0	3	1018	3054
	49	8.0	3	393	1179
	50	8.0	3	413	1239
	51	8.0	4	465	1860
	52	8.0	3	99	297
	53	8.0	3	100	300
	54	8.0	3	480	1440
	55	8.0	3	157	471
	56	8.0	6	115	690
	57	8.0	3	462	1386
	58	8.0	3	473	1419
	59	8.0	3	659	1977
	60	8.0	3	108	324
	61	8.0	1	502	502
	62	8.0	1	507	507
	63	8.0	2	821	1642
	64	8.0	3	464	1392
	65	8.0	3	491	1473
	66	8.0	3	470	1410
	67	8.0	3	119	357
	68	8.0	1	540	540
	69	8.0	1	183	183
	70	8.0	2	933	1866
	71	8.0	3	969	2907
	72	8.0	3	385	1155
	73	8.0	1	136	136
	74	8.0	1	128	128
	75	8.0	2	792	1584
	76	8.0	1	934	934
	77	8.0	2	605	1210
	78	8.0	3	283	849
	79	8.0	1	175	175
	80	8.0	4	494	1976
	81	8.0	3	472	1416
	82	8.0	2	492	984
	83	8.0	1	119	119
	84	8.0	2	396	792
	85	10.0	8	88	704
	86	10.0	1	190	190
	87	10.0	1	369	369
	88	10.0	2	937	1874

Resumo do aço

ACO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	194.1	52.2
	8.0	454.8	197.4
	10.0	31.4	21.3
CA60	5.0	821.2	139.2
PESO TOTAL (kg)			
CA50	270.9		
CA60	139.2		

Volume de concreto (C-30) = 7.71 m³
Área de forma = 98.20 m²

OS ESPACAMENTOS DETERMINADOS NESTE PROJETO DEVEM SER FEITOS COM ESPACADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA UBSF JARDIM PARAISO

Comissão: Vigas lajes - 5

Assinatura: Alexandre Soares de Almeida, Ass: Alexandre Soares de Almeida, Código: UBP/Subsfp.SCO

Data: 04/2020, Número Folha: 26/38

Requerente: Secretaria da Saúde, Desenhista CAD: Alexandre

Escala: Indica, Data: 04/2020

PROJETO DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS
PROJETO DE ESTRUTURA UBSF JARDIM PARAISO

ESC 1:50

N25 Ø8.0 c127

4 N26 Ø8.0 c117

66 94 25

2 N2 Ø5.0 c268

406

A

2x7 N1 Ø5.0

P94 L.93.44 L. A P89

18 99.6 18 263.4 15

399

21 N3 Ø5.0 c160

44

4 N24 Ø8.0 c432

27

SEÇÃO A-A

ESC 1:25

18

63

11

21 N3 Ø5.0 c160

NIVEL LAJES - L3

ESC 1:25

18 18

13 13

11 N21 ø5.0 c64

123

4 N75 ø10.0 c123

280

406

126

11 N21 c126

ESC 2:5

[illegible][illegible]

ESC 1:25

ESC 1:25

ESC 1:25

30 N11 ø5.0 c266

45 N12 ø5.0 c154

63 N12 ø5.0 c154

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL
CA60	1	5,0	14	CORR	5586
	2	5,0	2	268	536
	3	5,0	21	160	3360
	4	5,0	87	114	9918
	5	5,0	14	94	1316
	6	5,0	22	CORR	12826
	7	5,0	12	CORR	5562
	8	5,0	12	CORR	474
	9	5,0	3	91	273
	10	5,0	2	297	594
	11	5,0	30	266	7980
	12	5,0	45	154	6930
	13	5,0	100	100	10000
	14	5,0	26	60	1560
	15	5,0	26	23	598
	16	5,0	2	225	450
	17	5,0	168	120	20160
	18	5,0	1	330	660
	19	5,0	2	240	480
	20	5,0	2	821	1642
CA50	21	5,0	11	64	704
	22	6,3	6	143	858
	23	6,3	3	209	418
	24	8,0	4	432	1728
	25	8,0	4	127	508
	26	8,0	4	117	468
	27	8,0	3	918	2754
	28	8,0	2	284	568
	29	8,0	1	895	895
	30	8,0	2	1085	2170
	31	8,0	1	245	245
	32	8,0	1	172	172
	33	8,0	2	936	1872
	34	8,0	3	157	471
	35	8,0	1	197	197
	36	8,0	2	907	1814
	37	8,0	2	390	780
	38	8,0	1	239	239
	39	8,0	3	1132	3396
	40	8,0	1	408	408
	41	8,0	1	255	255
	42	8,0	1	203	203
	43	8,0	1	186	186
	44	8,0	2	392	784
	45	8,0	2	345	690
	46	8,0	3	810	2430
	47	8,0	1	170	170
	48	8,0	1	195	195
	49	8,0	1	703	703
	50	8,0	2	1200	2400
	51	8,0	2	436	872
	52	8,0	1	521	521
	53	8,0	1	135	135
	54	8,0	2	935	1870
	55	8,0	3	88	264
	56	8,0	1	330	330
	57	8,0	3	575	1725
	58	8,0	1	250	250
	59	8,0	2	503	1006
	60	8,0	3	165	495
	61	8,0	3	158	474
	62	8,0	1	183	183
	63	8,0	1	143	143
	64	8,0	2	535	1070
	65	8,0	3	568	1704
	66	8,0	1	490	490
	67	8,0	2	821	1642
	68	10,0	4	634	2536
	69	10,0	1	760	760
	70	10,0	2	385	770
	71	10,0	2	1140	2280
	72	10,0	2	1073	2146
	73	10,0	2	145	290
	74	10,0	2	145	290
	75	10,0	4	123	492

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	14.9	4
	8.0	412.8	179.2
	10.0	95.3	64.6
CA60	5.0	970.3	164.5
PESO TOTAL (kg)			
CA50	247.8		
CA60	164.5		

Volume de concreto (C-30) = 8.18 m³
Área de forma = 96.47 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPACADORES INDUSTRIALIZADOS.

Technical drawing of a building section showing a cross-section of a roof and walls. The drawing includes dimensions, material specifications, and structural details. Key features include a roof slope of 12%, a wall thickness of 200mm, and a floor thickness of 100mm. The drawing is labeled with '2 N72 ø10.0 c1073' and '2 N73 ø10.0 c145'.

ESC 1:25 ESC 1:25

80
15

40
15

43
8

33
8

7 N5 ø5.0 c94

43 N4 ø5.0 c114

ESC 1:50

3 N38 ø8.0 c239

24

110

209

1

A 406

P102

A

P96

20

178.2

18

178.2

26 N14 c/7

26 N15 c/7

3 N23 ø6.3 c209

SEÇÃO A-A

ESC 1:25

81

18

13

6

26 N15 ø5.0 c23

11

26 N14 ø5.0 c60

ESC 1:25

18

13
6

26 N15 ø5.0 c23

13
11

26 N14 ø5.0 c60

ESC 1:50

3 N57 ø8.0 c575

554

1 N56 ø8.0 c330

192.5

2 N18 ø5.0 c330

406

V.L.37

L A

531.8

V.L.31

409.7

V.L.27

409.8

27 N13 ø19

394.7

21 N13 ø19

1 N52 ø8.0 c521

142.5

N53 ø8.0 c135

2 N54 ø8.0 c335

SEÇÃO A-A

ESC 1:25

18

33

11

48 N18 ø5.0 c100

ESC 1:25

40

18

33

11

48 N13 $\varnothing 5.0$ c100

[illegible]

ESC 1:25

50
18

43
11

126 N17 ø5.0 c12

ESC 1:25

40
18
33
11

7 N13 ø5.0 c100

ESC 1:50

3 N50 ø8.0 c165

23 144

3 N51 ø8.0 c158

139

21

SEÇÃO A-A

ESC 1:25

2 N19 ø5.0 c240

406

V.L-27

A

509.9

V.L-21

479.9

26 N13 ø19

117.5

1 N58 ø8.0 c250

2 N50 ø8.1 c503

18

33

11

26 N13 ø5.0 c100

ESC 1:25

40

18

33

11

26 N13 ø5.0 c100

ESC 150

3 N65 ø9.0 c568

518

33

21

406

Γ A

V.L-21

404.2

L A

V.L-15

121

371.2

20 N13 c19

121

7 N13 c19

126

19

122.5

1 N62 ø8.0 c183

518

2 N64 ø8.0 c535

1 N63 ø8.0 c143

27 N15 ø5.0 c100

SEÇÃO A-A

ESC 125

9

18

33

11

ESC 1:25

Technical drawing of a rectangular plate. The top view shows a rectangle with dimensions 40 (height) and 18 (width). The side view shows a rectangle with dimensions 33 (height) and 11 (width). The drawing is labeled ESC 1:25.

Technical drawing of a 42 N17 c19 profile. The drawing shows the profile with dimensions and callouts. The top view shows a width of 42 N17 c19 and a height of 43. The side view shows a height of 43 and a width of 11. The bottom view shows a width of 42 N17 c19 and a height of 11. The drawing also includes dimensions for the top flange (436, 436) and the bottom flange (436, 436). The profile is labeled 42 N17 c19.

ESC 1:25

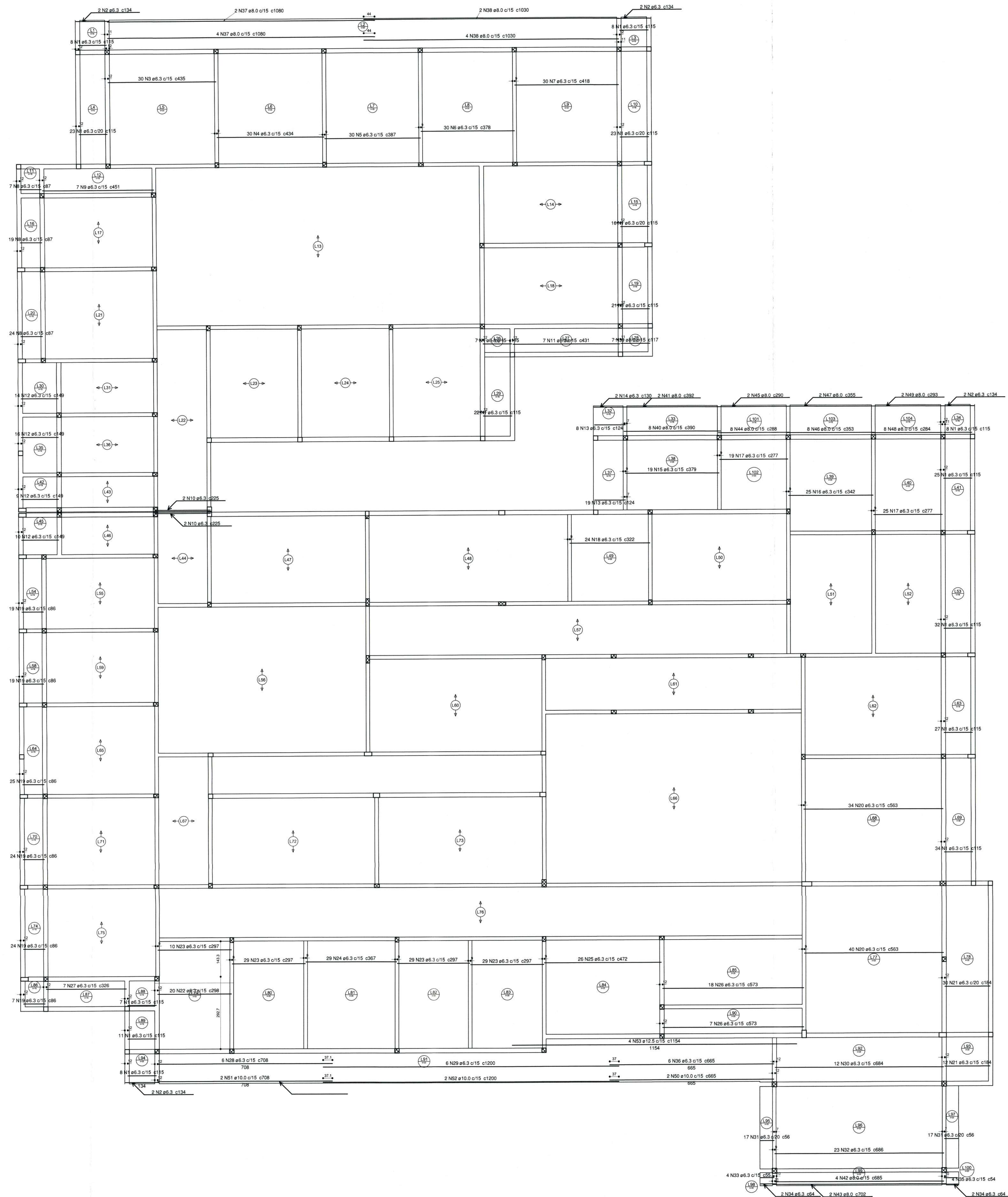
50

18

43

11

42 N17 ø5.0 c120



Armação positiva das lajes do pavimento Nivel Lajes (Exo X)
escala 1:50

Relação do aço

AO	N	DIAM (mm)	QUANT (Barra)	UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	280	115	32200
	2	6.3	8	134	1072
	3	6.3	30	435	13050
	4	6.3	30	434	13020
	5	6.3	30	387	11610
	6	6.3	30	378	11340
	7	6.3	30	418	12540
	8	6.3	50	87	4350
	9	6.3	7	451	3157
	10	6.3	4	225	900
	11	6.3	7	431	3017
	12	6.3	49	149	7301
	13	6.3	27	124	3348
	14	6.3	2	130	260
	15	6.3	19	379	7201
	16	6.3	25	342	8550
	17	6.3	44	277	12188
	18	6.3	24	322	7728
	19	6.3	118	86	10148
	20	6.3	74	563	41652
	21	6.3	42	184	7728
	22	6.3	20	298	5960
	23	6.3	97	297	28809
	24	6.3	29	367	10643
	25	6.3	25	472	12272
	26	6.3	25	573	14325
	27	6.3	7	326	2282
	28	6.3	6	708	4248
	29	6.3	5	1200	7200
	30	6.3	12	684	8208
	31	6.3	34	56	1904
	32	6.3	23	686	15778
	33	6.3	4	55	220
	34	6.3	4	64	256
	35	6.3	4	54	216
	36	6.3	6	665	3990
	37	8.0	6	1080	6480
	38	8.0	6	1030	6180
	39	8.0	7	117	819
	40	8.0	8	390	3120
	41	8.0	2	392	784
	42	8.0	4	685	2740
	43	8.0	2	702	1404
	44	8.0	8	288	2304
	45	8.0	2	290	580
	46	8.0	6	353	2824
	47	8.0	2	355	710
	48	8.0	8	284	2272
	49	8.0	2	293	586
	50	10.0	2	665	1330
	51	10.0	2	708	1416
	52	10.0	2	1200	2400
	53	12.5	4	1154	4616

Resumo do aço

AO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	3286.9	884.7
	8.0	306.1	133.7
	10.0	51.5	34.9
	12.5	46.2	48.9
PESO TOTAL (kg)			
CA50	1102.2		

Volume de concreto (C-30) = 131.69 m³
Área de forma = 540.91 m²



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: UBSF JARDIM PARAISO

Comissão: Lajes - 1

Autor: ALEXANDRE SACRE Co-Autor: Alexandre Encarregado: Alexandre	Ass: Alexandre Ass: Alexandre	Código: UBP/Subsp SCO Data: 04/2020 Número Prontuário: 28/38	Nota: Para o Cálculo do Projeto Definido: 1 grupo - Execução do Projeto 2 grupo - Execução, Fundação entre outros 3 grupo - Tipo de Projeto 4 grupo - Nome do Projeto (2 letras) 5 grupo - Número do Projeto 6 grupo - Revolução / Área
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ACO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	2	75	150
	2	4.2	2	120	120
	3	4.2	1	86	86
	4	4.2	2	115	230
	5	4.2	1	70	70
	6	4.2	1	84	84
	7	4.2			
	8	4.2	1425	71	101175
	9	4.2	30	56	1680
	10	4.2	22	88	1936
	11	4.2	103	92	9476
	12	5.0	4	95	380
	13	5.0	3	116	348
CA50	14	5.0	2	113	226
	15	5.0	57	87	4971
	16	5.0	62	92	5704
	17	6.3	3	111	333
	18	6.3	5	113	565
	19	6.3	3	115	345
	20	6.3	1	90	90
	21	6.3	7	112	784
	22	6.3	3	89	264
	23	6.3	3	88	264
	24	6.3	1	87	87
	25	6.3	1	92	92
	26	6.3	3	193	579
	27	6.3	2	138	276
	28	6.3	1	114	114
	29	8.0	4	116	464
	30	8.0			
31	8.0	8	143	1144	
32	8.0	9	525	4716	
33	8.0	9	VAR	VAR	
34	8.0	8	737	5896	
35	8.0	12	1180	14160	
36	8.0	2	138	276	
37	8.0	23	212	4876	
38	8.0	4	825	3300	
39	8.0	8	878	7024	
40	8.0	10	1014	10140	
41	10.0	2	114	228	
42	10.0	2	116	232	
43	12.5	1	139	139	
44	12.5	2	144	288	
45	12.5	41	404	16564	

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	43.8	11.8
	8.0	649.4	281.8
	10.0	4.6	3.1
	12.5	170.8	180.9
CA60	4.2	1159.4	138.7
	5.0	71	12
PESO TOTAL (kg)			
CA50	477.6		
CA60	150.7		

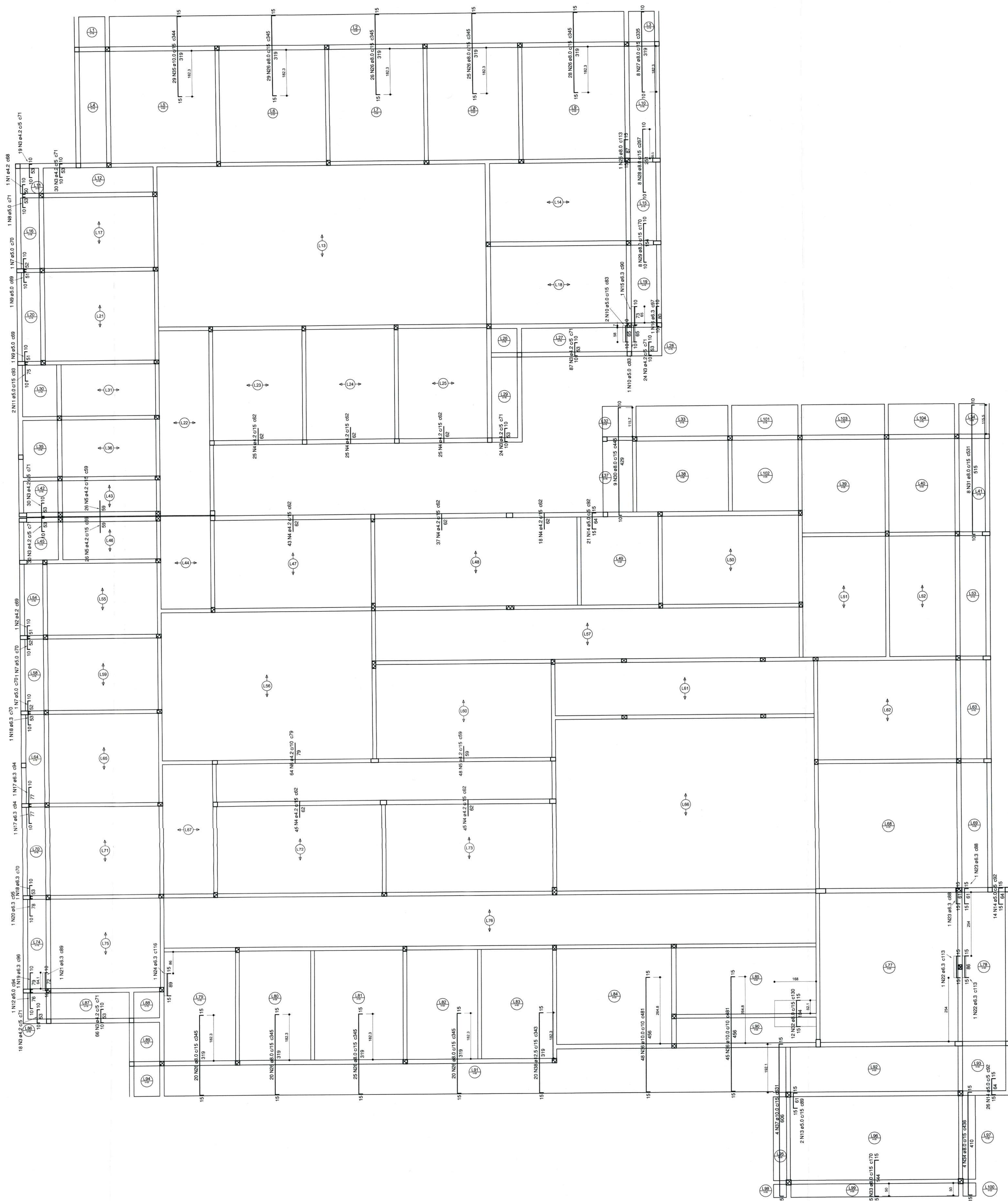
Armação negativa das lajes do pavimento Nivel Lajes (Eixo X)
escala 1:50



Indicada	Desenhista CAD: Alexandre
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Nota: Para o Código do Projeto Defina-se:

- 1 grupo - Executiva do Projeto;
- 2 grupo - Secretária, Fundação entre outros;
- 3 grupo - Tipo de Projeto;
- 4 grupo - Nome do Projeto (5 letras)
- 5 grupo - Número do Projeto;
- 6 grupo - Revisão / Ano



Armação negativa das lajes do pavimento Nível Lajes (Eixo Y)
escala 1:50

Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	1	68	68
	2	4.2	1	69	69
	3	4.2	328	71	23288
	4	4.2	263	62	16306
	5	4.2	100	59	5900
	6	4.2	64	79	5056
	7	5.0	3	70	210
	8	5.0	1	71	71
	9	5.0	2	69	138
	10	5.0	3	83	249
	11	5.0	2	93	186
	12	5.0	1	94	94
	13	5.0	2	89	178
	14	5.0	61	92	5612
	15	6.3	1	90	90
	16	6.3	1	97	97
	17	6.3	2	94	188
CA50	18	6.3	2	70	140
	19	6.3	1	96	96
	20	6.3	1	95	95
	21	6.3	1	89	89
	22	6.3	2	113	226
	23	6.3	2	88	176
	24	6.3	1	116	116
	25	8.0	1	113	113
	26	8.0	193	345	66585
	27	8.0	8	335	2680
	28	8.0	8	267	2136
	29	8.0	8	170	1360
	30	8.0	9	445	4005
	31	8.0	8	531	4248
	32	8.0	12	130	1560
	33	8.0	45	170	7650
	34	8.0	4	436	1744
	35	10.0	29	344	9976
	36	10.0	93	481	44733
	37	10.0	4	531	2524
	38	12.5	20	343	6860

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	13.2	3.5
	8.0	920.9	399.7
	10.0	572.4	368.1
	12.5	68.6	72.7
CA60	4.2	506.9	60.6
	5.0	67.4	11.4
PESO TOTAL (kg)			
CA50	864		
CA60	72.1		

Volume do concreto (C-30) = 131.69 m³
Área de forma = 540.91 m²



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAISO

Conteúdo: Lajes - 4

Assinatura: ALEXANDRE BACORE SILVA
Cargo: Engenheiro Civil

Assinatura: [assinatura]

Assinatura: [assinatura]

Código: UBSP/Subsp.SCO

Data: 04/2020

Número Planilha: 31/38

Requerente: Secretaria da Saúde

Indicada: [assinatura]

Desenhado: Alexandre

Notas: Para o Código do Projeto Deliberar:

1 grupo - Execução do Projeto;

2 grupo - Secretaria, Fundação de Amparo à Pesquisa do Estado de São Paulo;

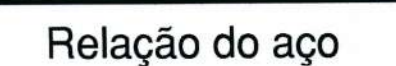
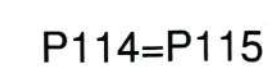
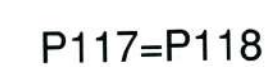
3 grupo - Tipo de Projeto;

4 grupo - Nome do Projeto de Engenharia;

5 grupo - Número do Projeto de Engenharia;

6 grupo - Revisão / Ano;

NIVEL SUPERIOR - L4



Resumo do aço

Volume de concreto (C-30) = 0.67 m³
Área de forma = 14.13 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: **PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO**

Conteúdo: Pilares cobertura - 1

Autores:
Autor:
ALEXANDRE SMORE SILVA, CREA: 42.999-7

Co-Autor: 

Requerente:
Secretaria da Saúde

Escala: Indicada	Desenhista CAD: Alexandre
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Código: **UBP/Subsfjp.SCO**

Data: 04/2020	Número Prancha: 32/38
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Nome: _____

1 grupo - Executora do Projeto;

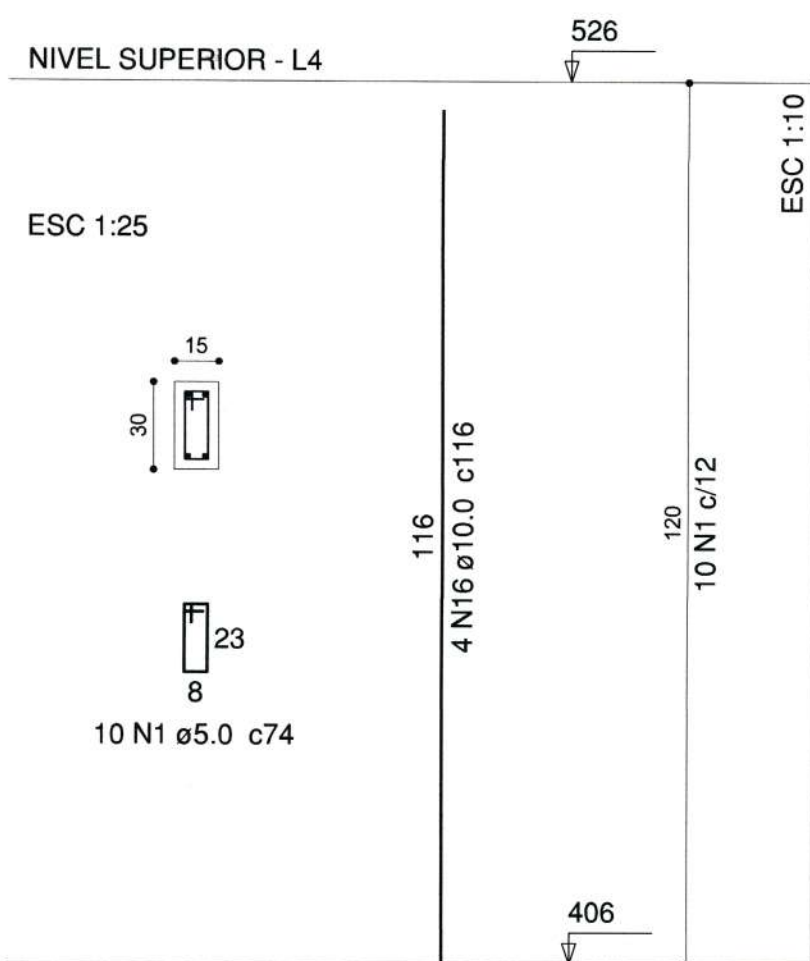
2 grupo - Secretaria, Fundação e
3 grupo - Tipo de Projeto;

4 grupo - Nome do Projeto (5 letras)
5 grupo - Número do Projeto:

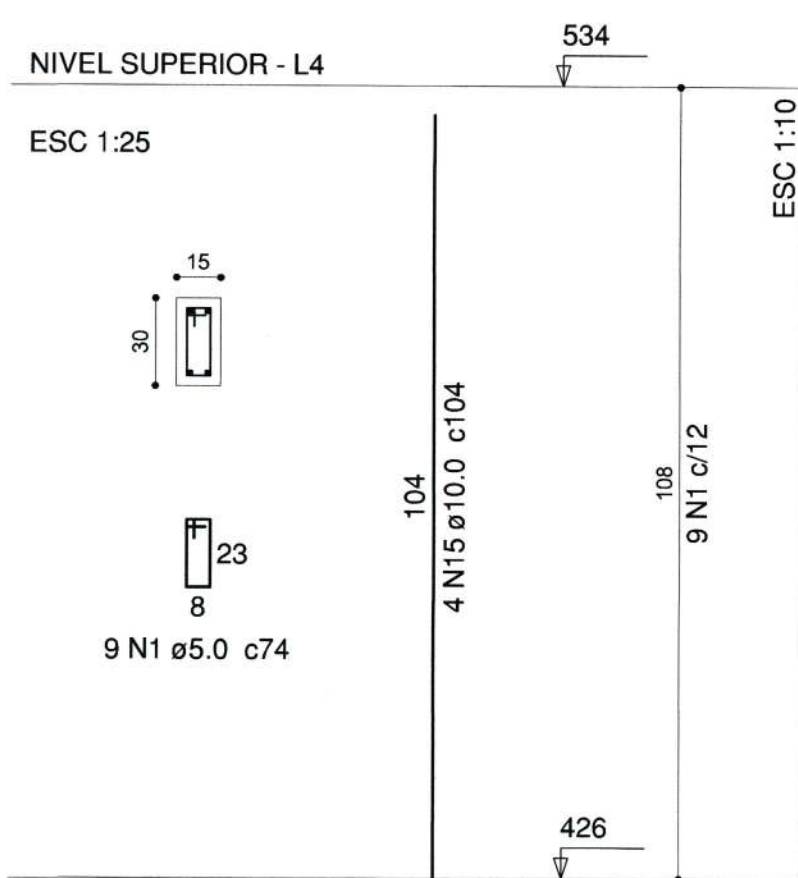
6 grupo - Revisão / Ano.

PREFEITURA MUNICIPAL DE JOINVILLE
SECRETARIA DA SAÚDE
Fabrizio da Rosa
Diretor Executivo
Matrícula 41231

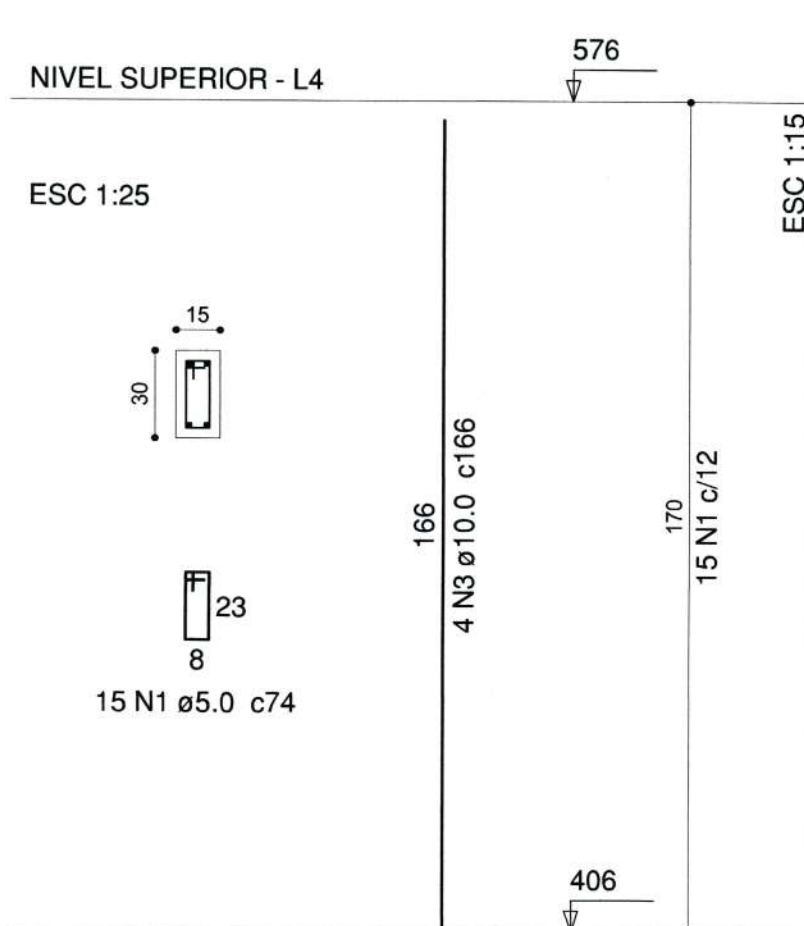
P122



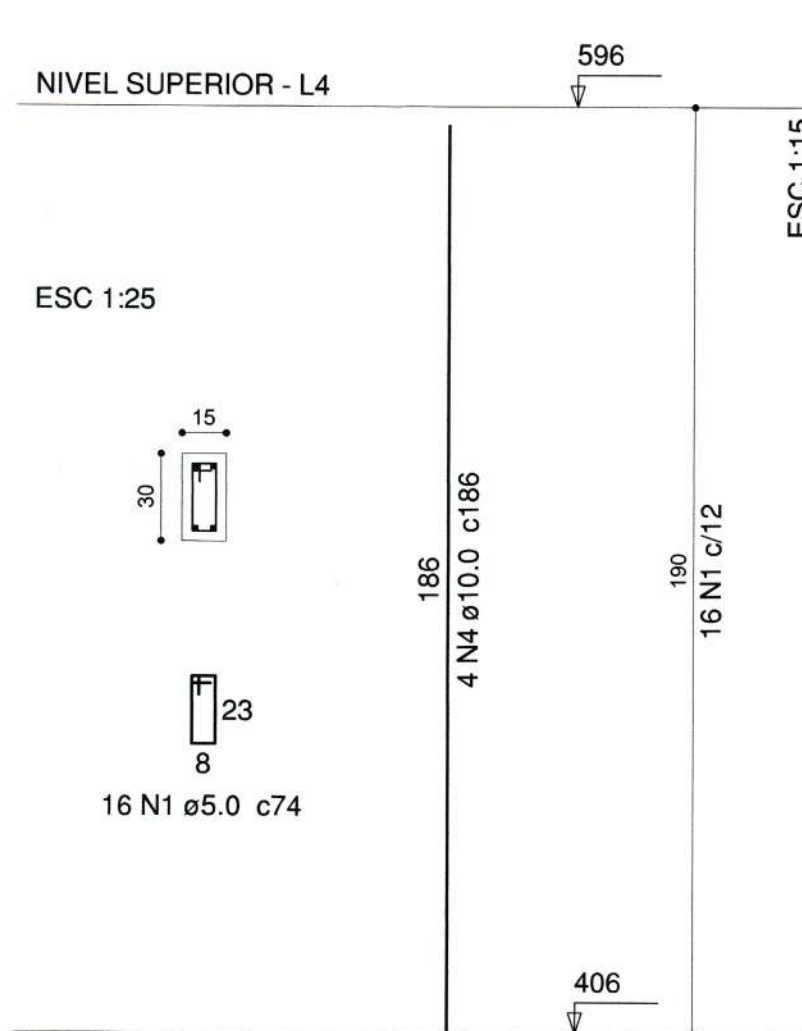
P123



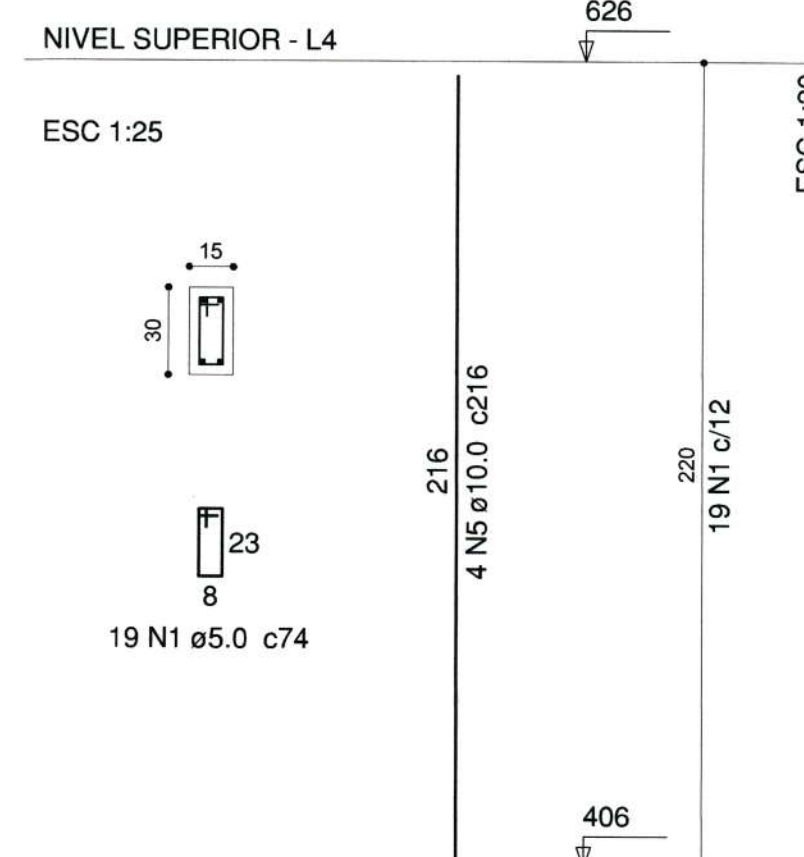
P124=P130



P125



P126



Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	134	74	9916
	2	5.0	129	56	7224
CA50	3	10.0	8	166	1328
	4	10.0	4	186	744
	5	10.0	4	216	864
	6	10.0	4	264	1056
	7	10.0	4	246	984
	8	10.0	4	223	892
	9	10.0	4	176	704
	10	10.0	8	396	3168
	11	10.0	4	110	440
	12	10.0	4	91	364
	13	10.0	4	99	396
	14	10.0	4	63	252
	15	10.0	4	104	416
	16	10.0	4	116	464

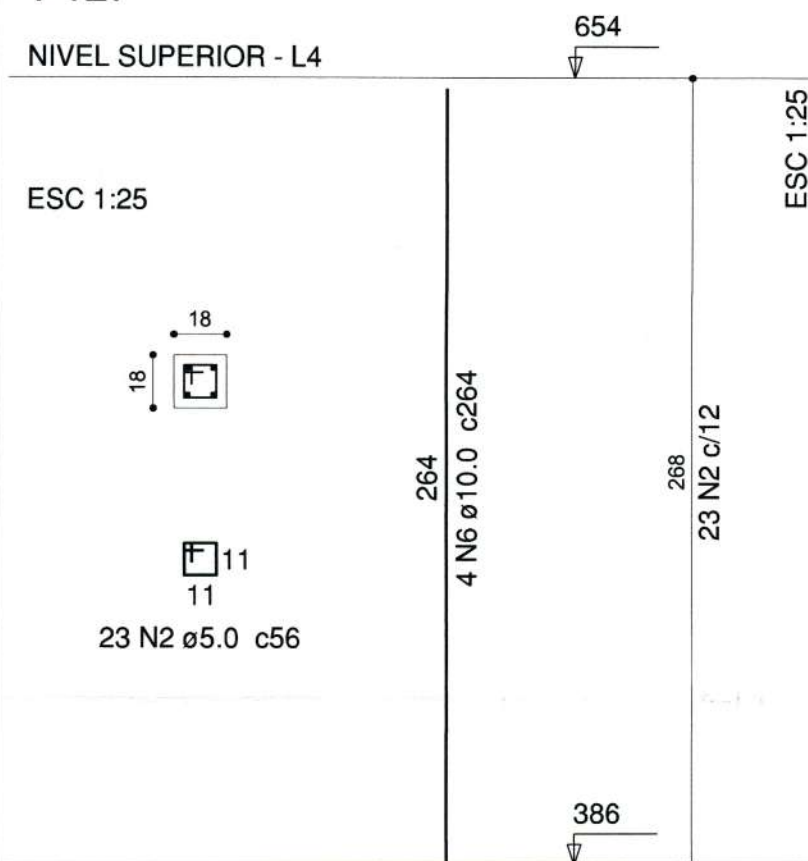
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	120.8	81.9
CA60	5.0	171.4	29.1
PESO TOTAL (kg)			
CA50		81.9	
CA60		29.1	

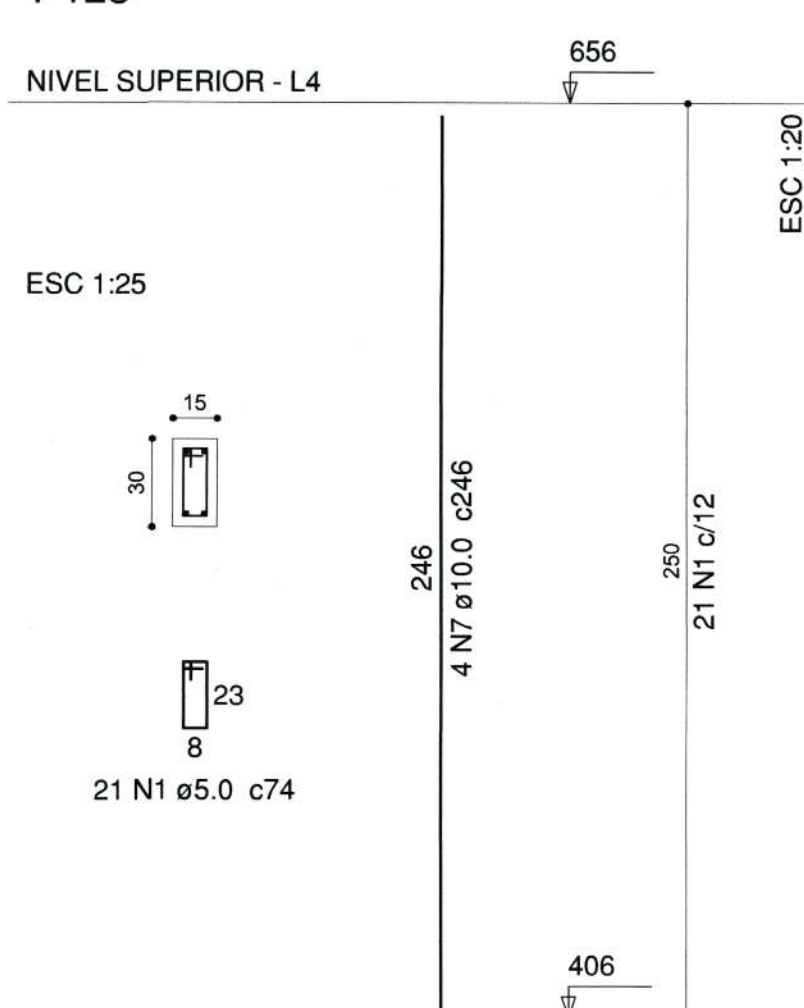
Volume de concreto (C-30) = 1.2 m³
Área de forma = 25.01 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS

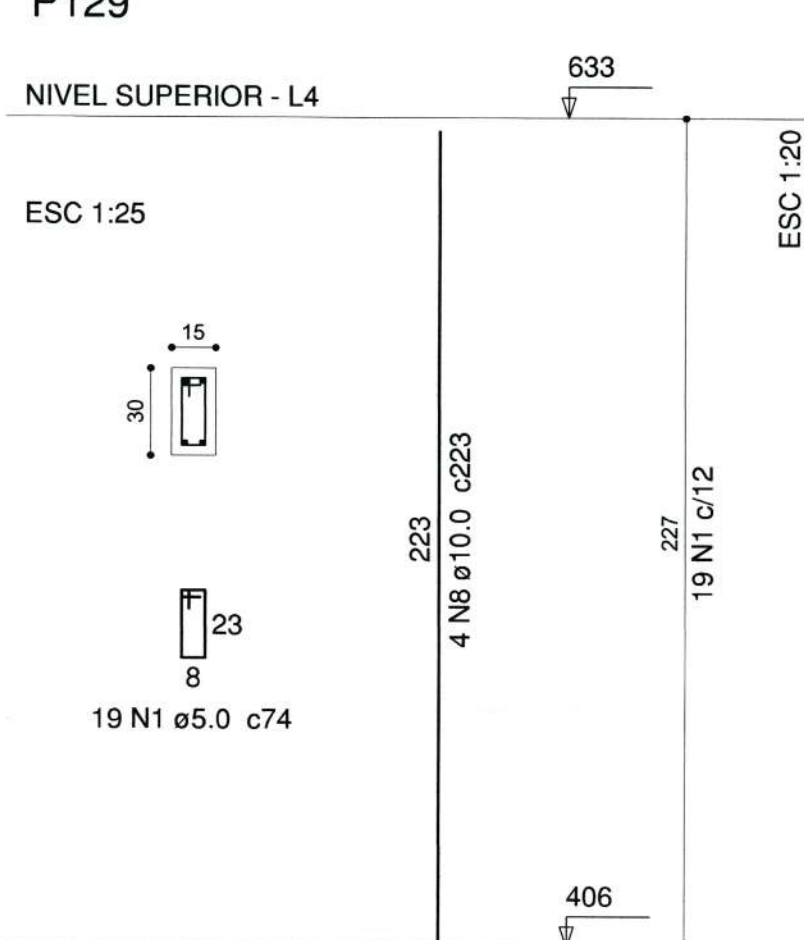
P127



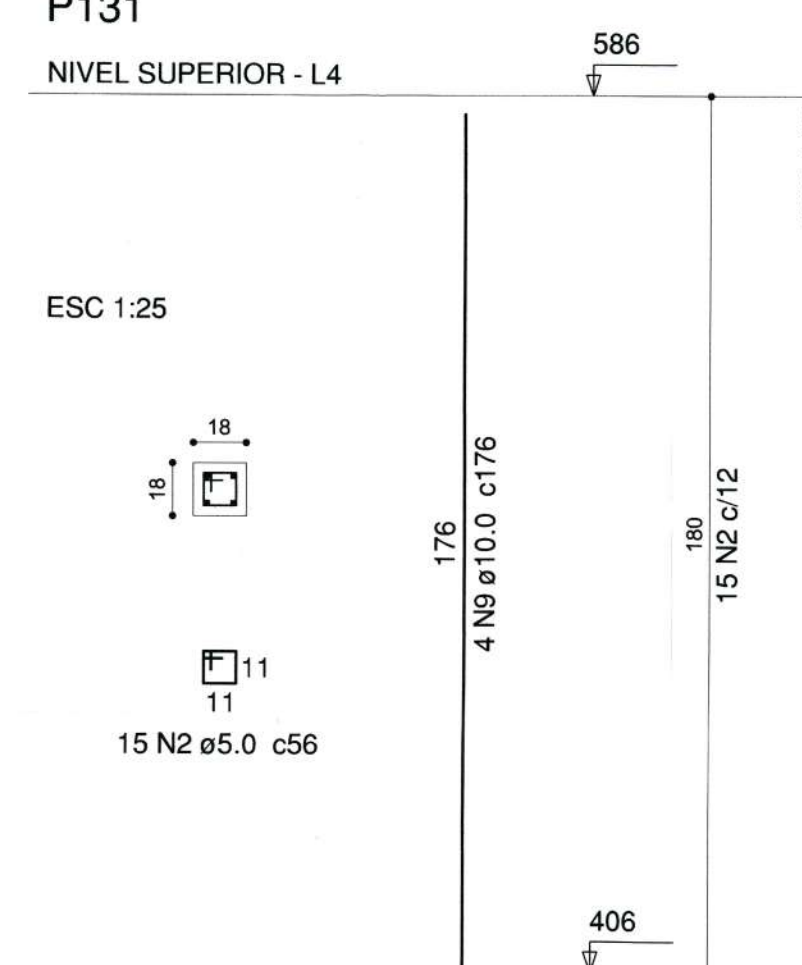
P128



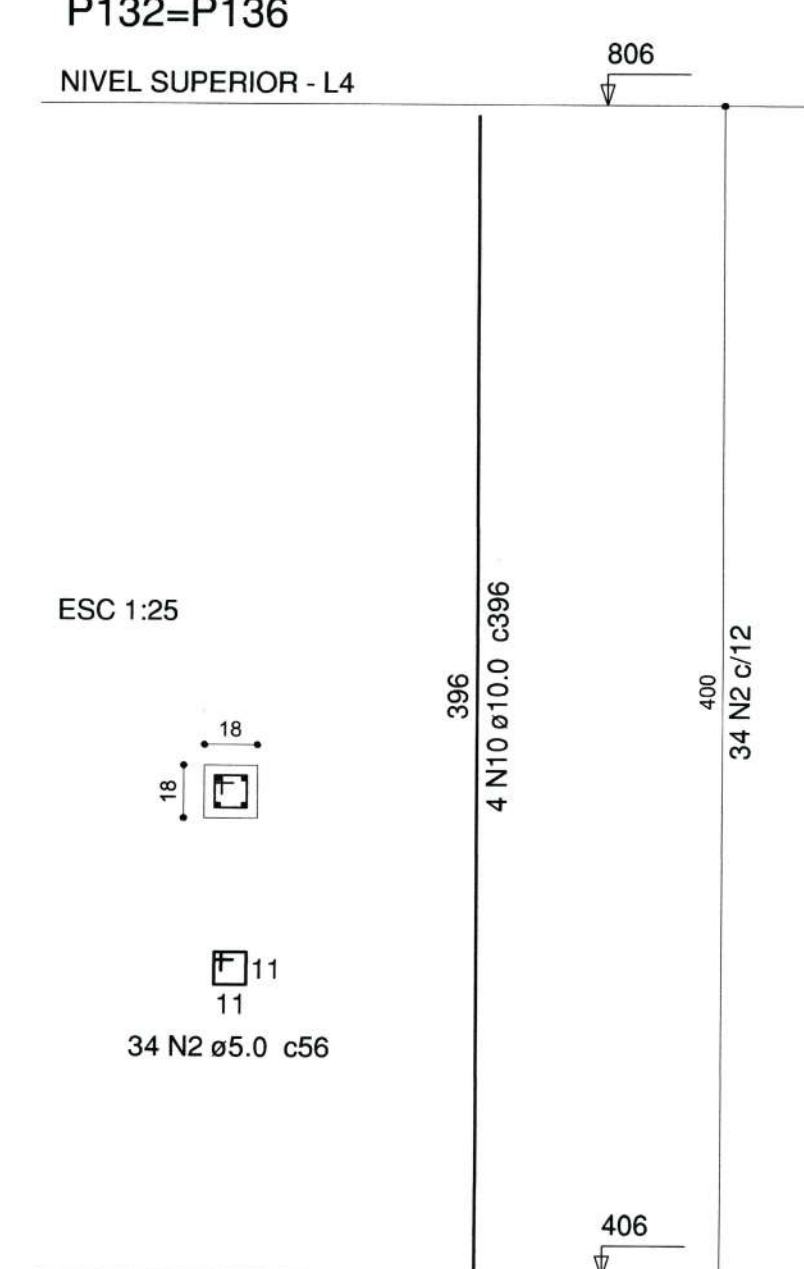
P129



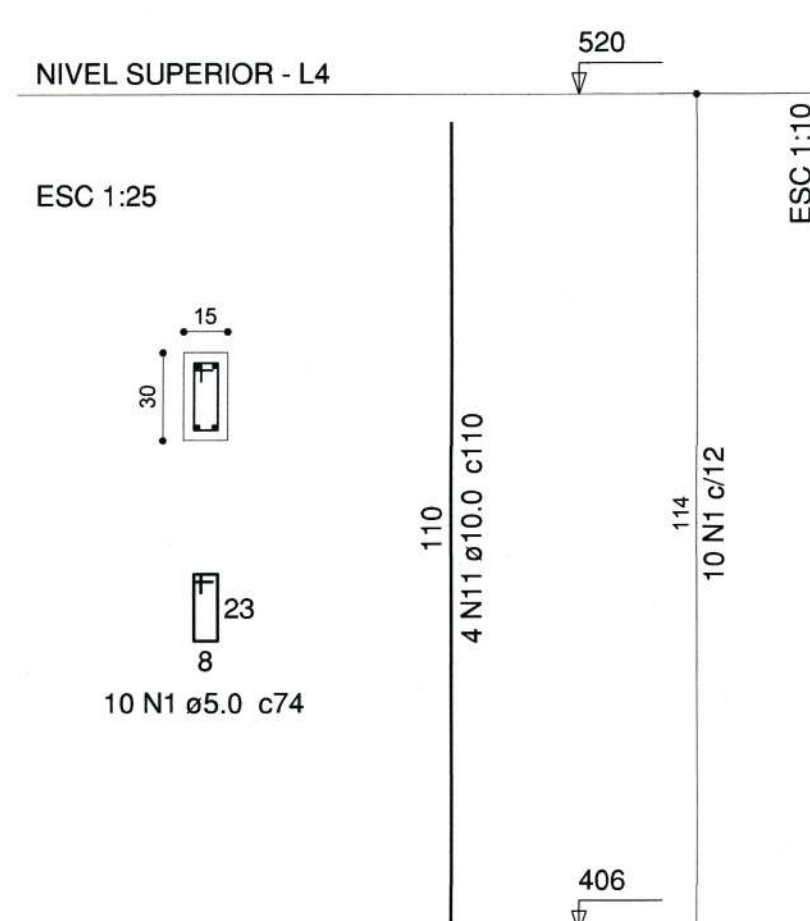
P131



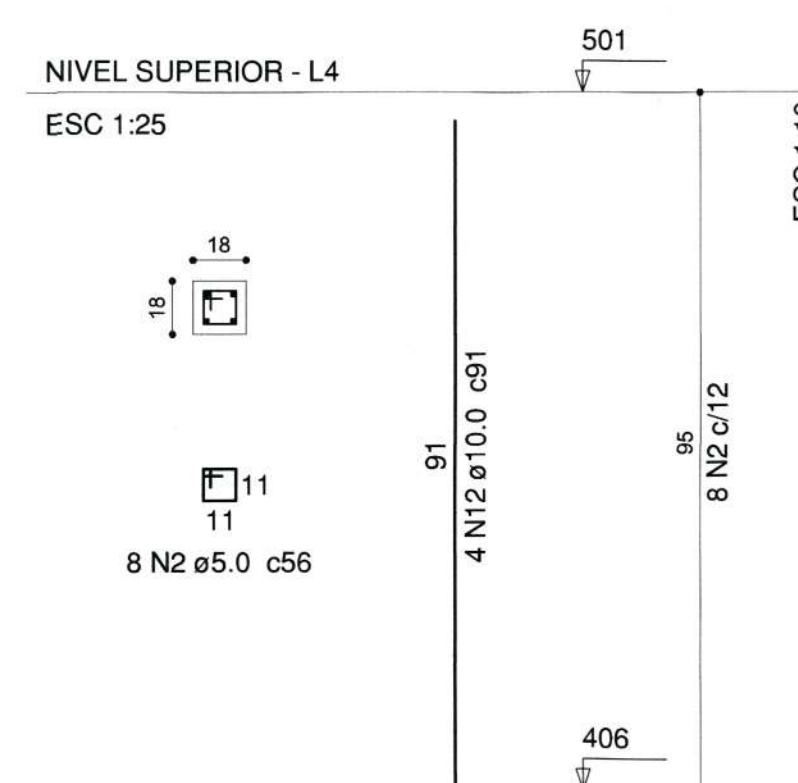
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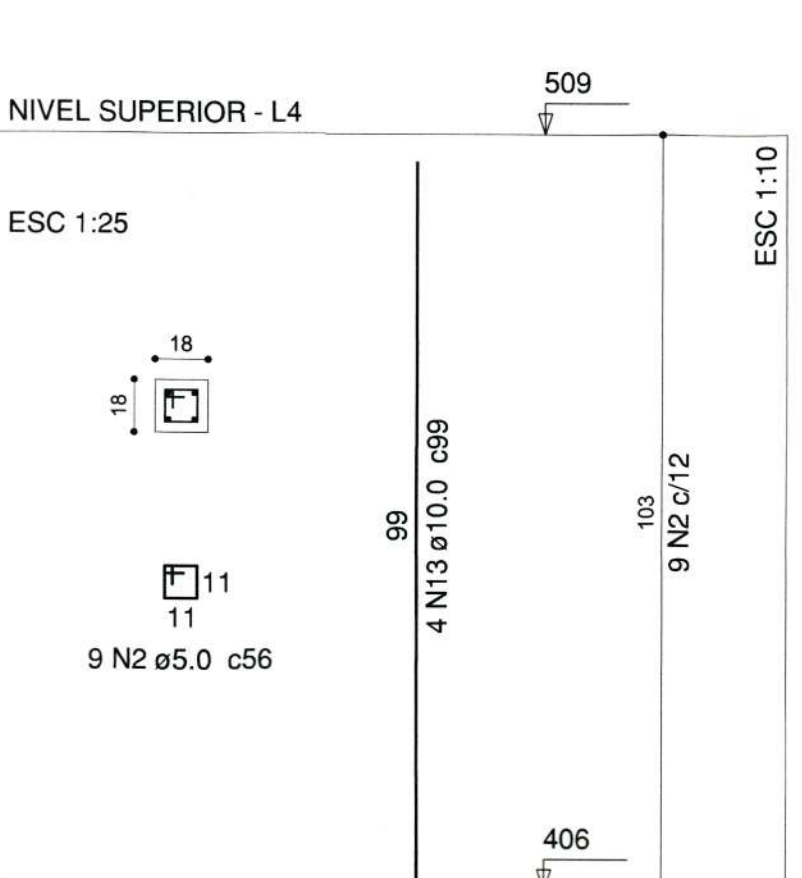
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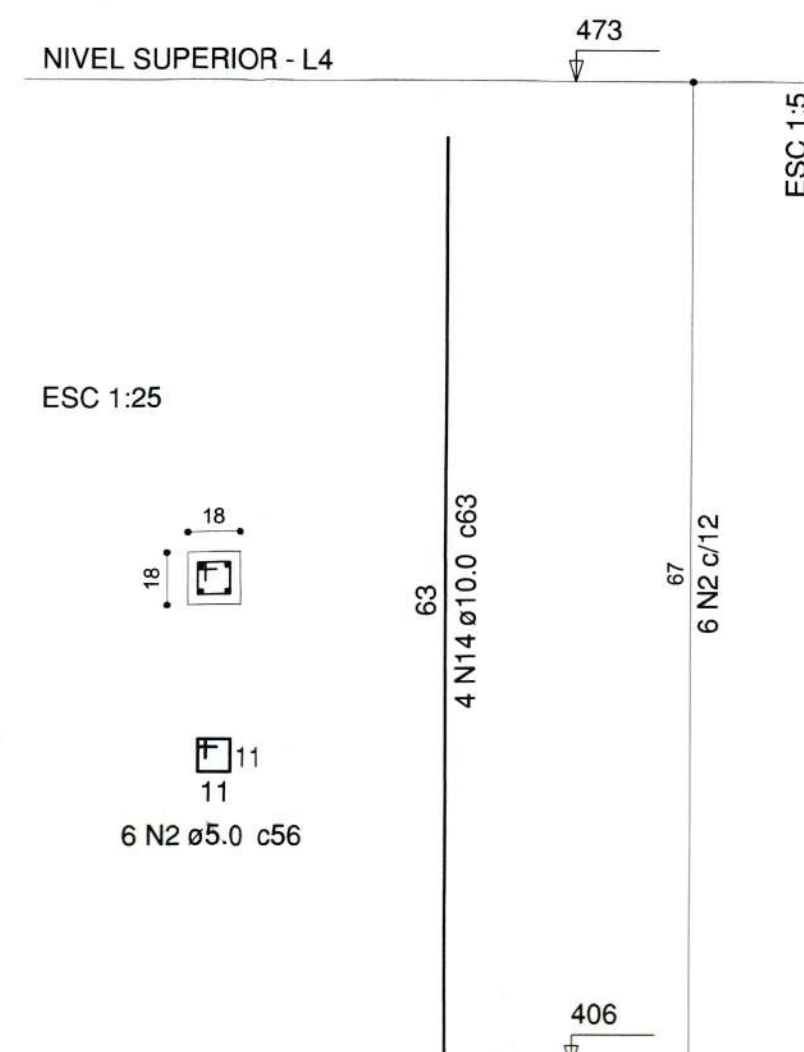
P134



P135



P137



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO

Conteúdo: Pilares cobertura - 2

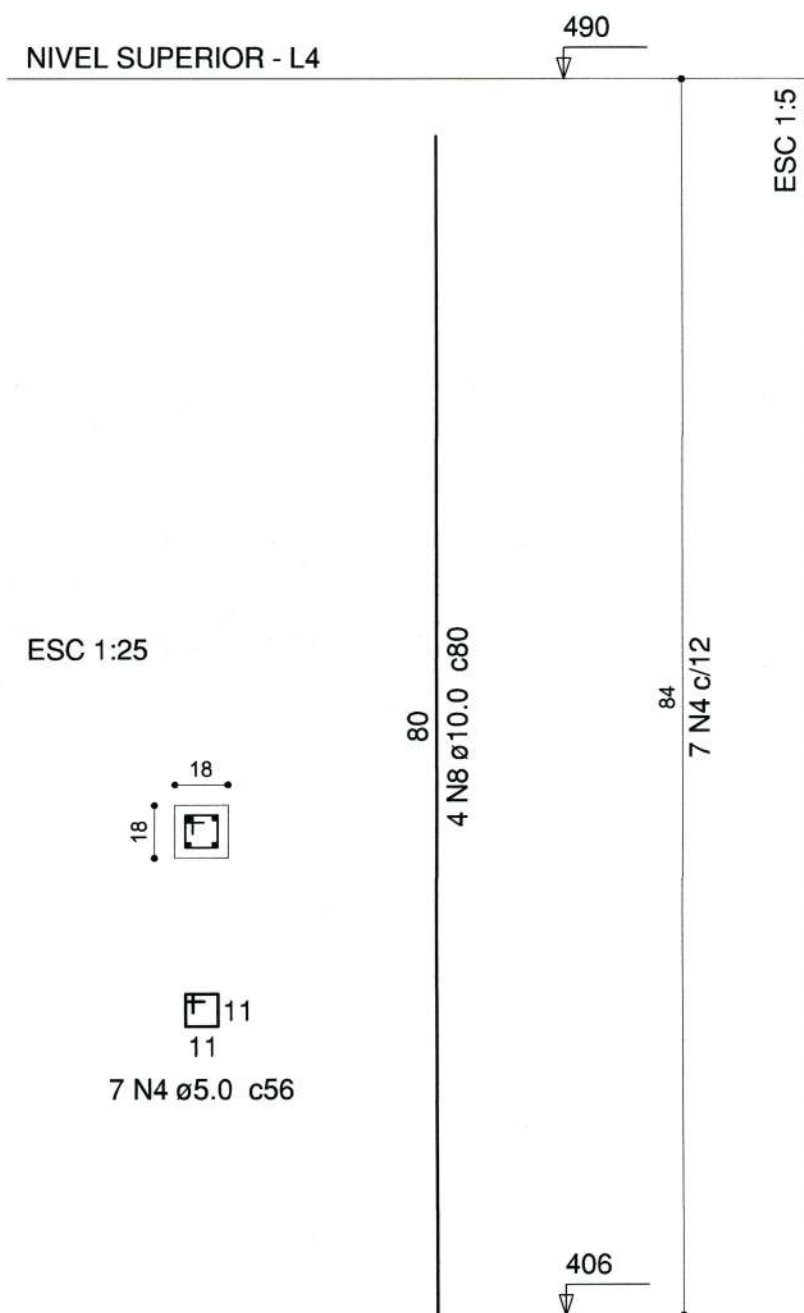
Autores: ALEXANDRE SMORE SILVA, CREA: 42.999-7
Ass.:
Co-Autor: Ass.:
Requerente: Secretaria da Saúde
Escala: Indicada
Desenhista CAD: Alexandre

Código: UBP/Subsfp.SCO
Data: 04/2020
Número Pranchas: 33/38

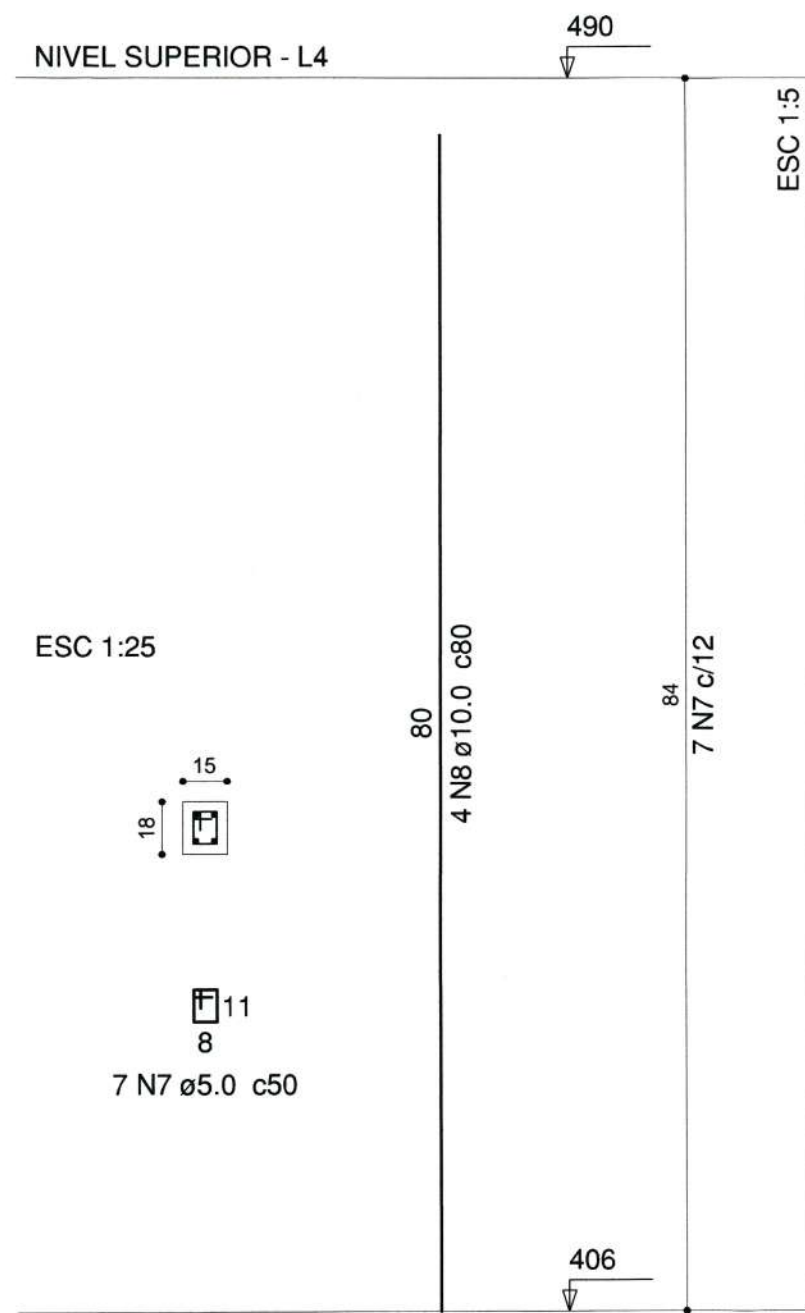
Nota: Para o Código do Projeto Defina-se:
1 grupo - Execução do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo de Projeto;
4 grupo - Nome do Projeto (5 letras)
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

PREFEITURA MUNICIPAL DE JOINVILLE
SECRETARIA DA SAÚDE
Patrição da Rosa
Diretor Executivo
Arquiteta 2014

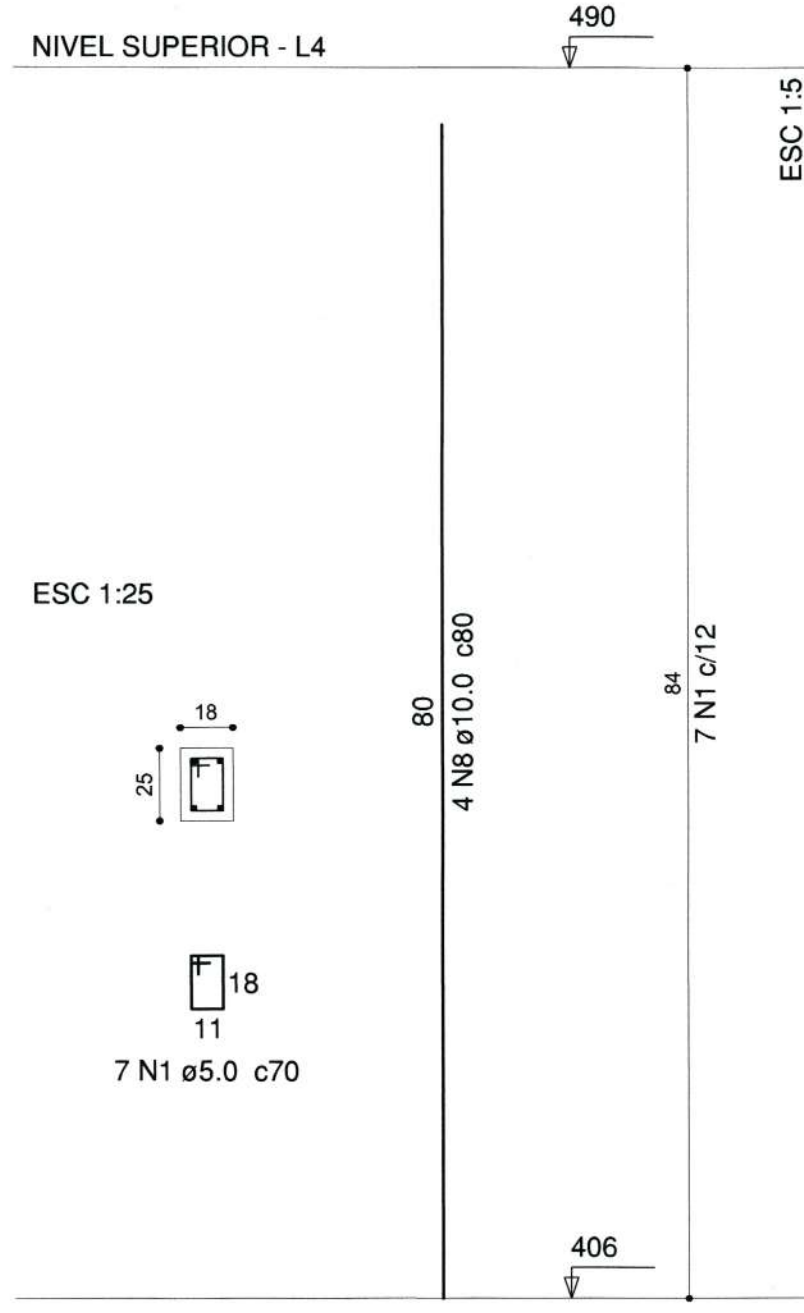
P28=P29=P30=P31=P41=P42=P121



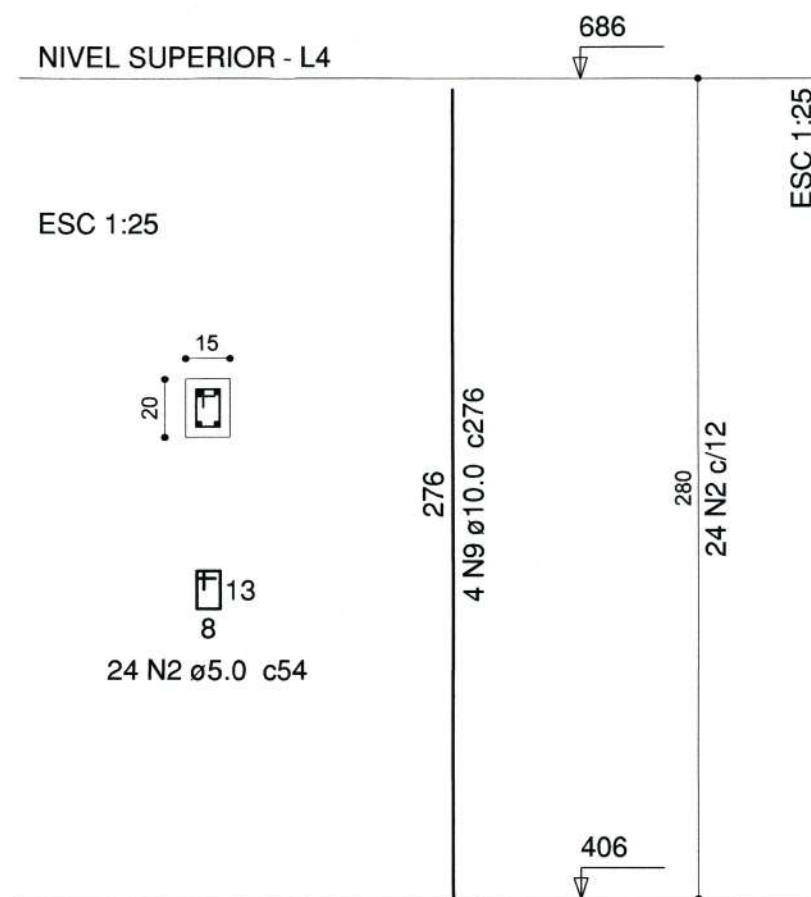
P43



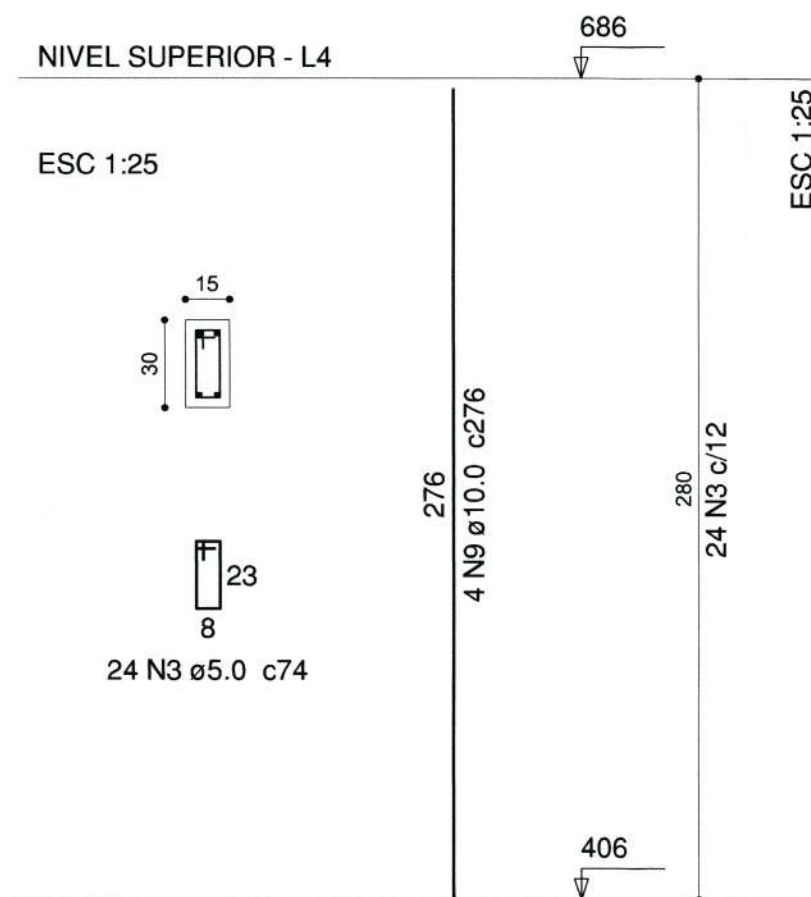
P44



P68=P70



P69



Relação do aço

7xP28	P43	P44
2xP68	P69	P75
2xP76	P83	P95
P96		

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	55	70	3850
	2	5.0	48	54	2592
	3	5.0	24	74	1776
	4	5.0	73	56	4088
	5	5.0	26	100	2600
	6	5.0	64	80	5120
	7	5.0	7	50	350
CA50	8	10.0	36	80	2880
	9	10.0	24	276	6624
	10	10.0	4	306	1224
	11	10.0	4	356	1424
	12	10.0	4	396	1584

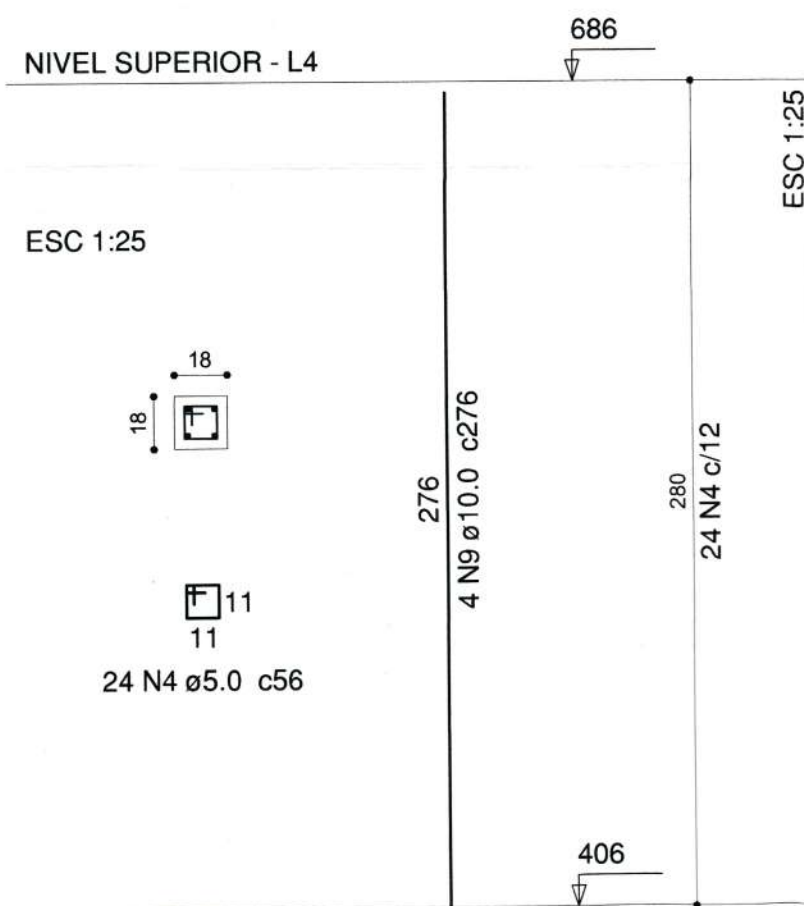
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	137.4	93.2
CA60	5.0	203.8	34.5
PESO TOTAL (kg)			
CA50	93.2		
CA60	34.5		

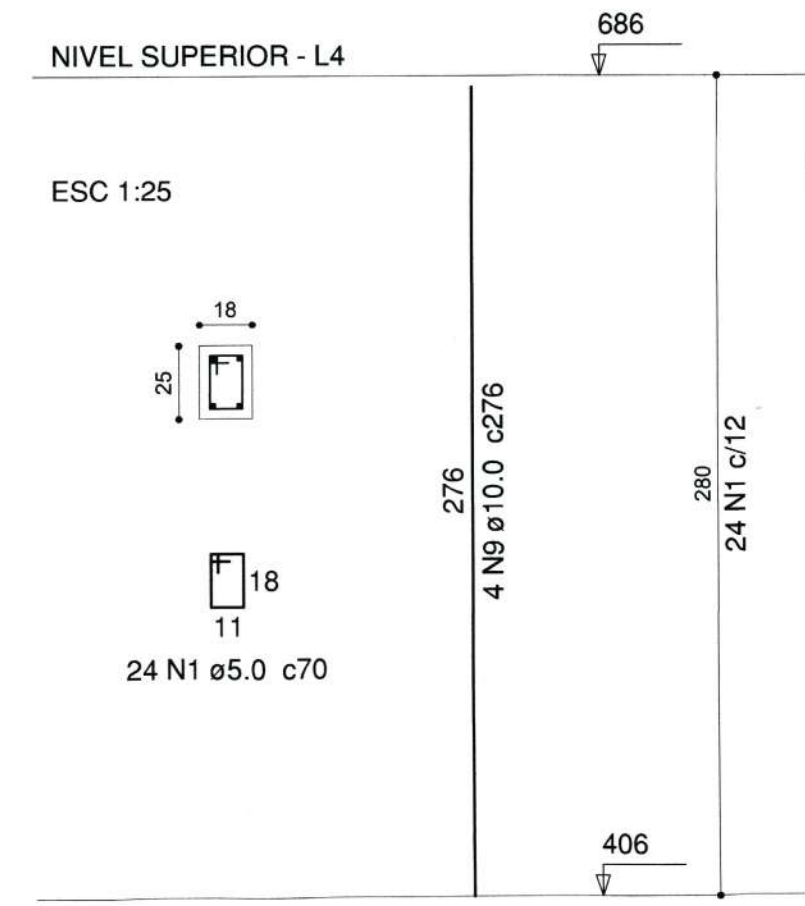
Volume de concreto (C-30) = 1.52 m³
Área de forma = 29.67 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS

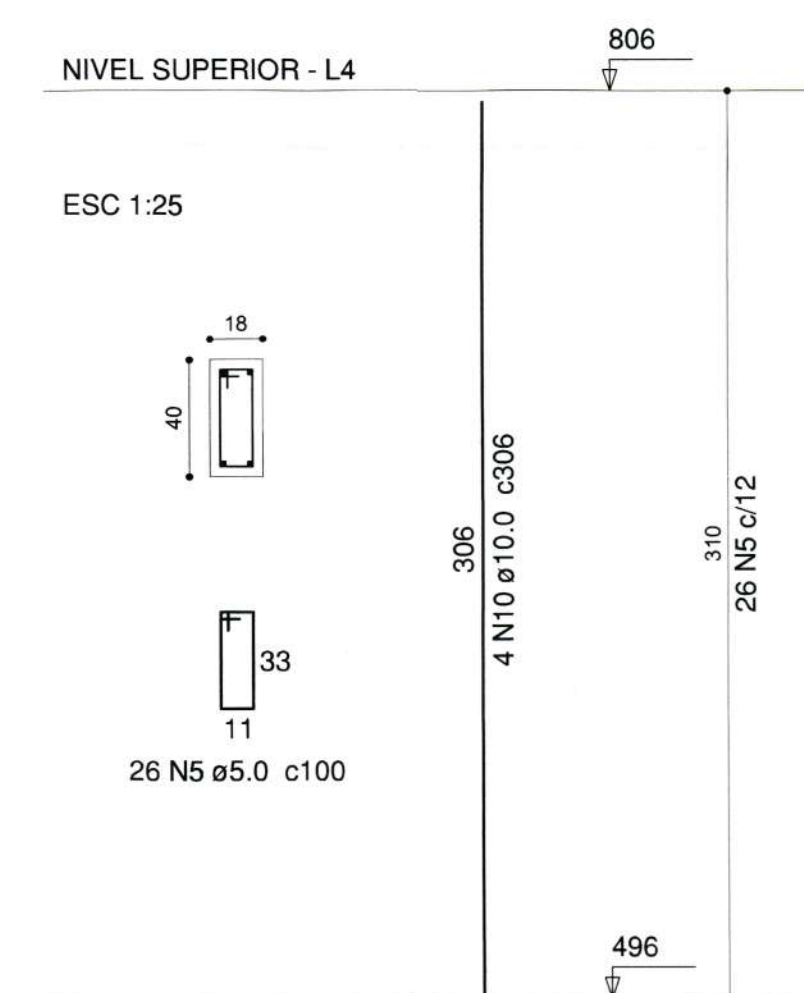
P75



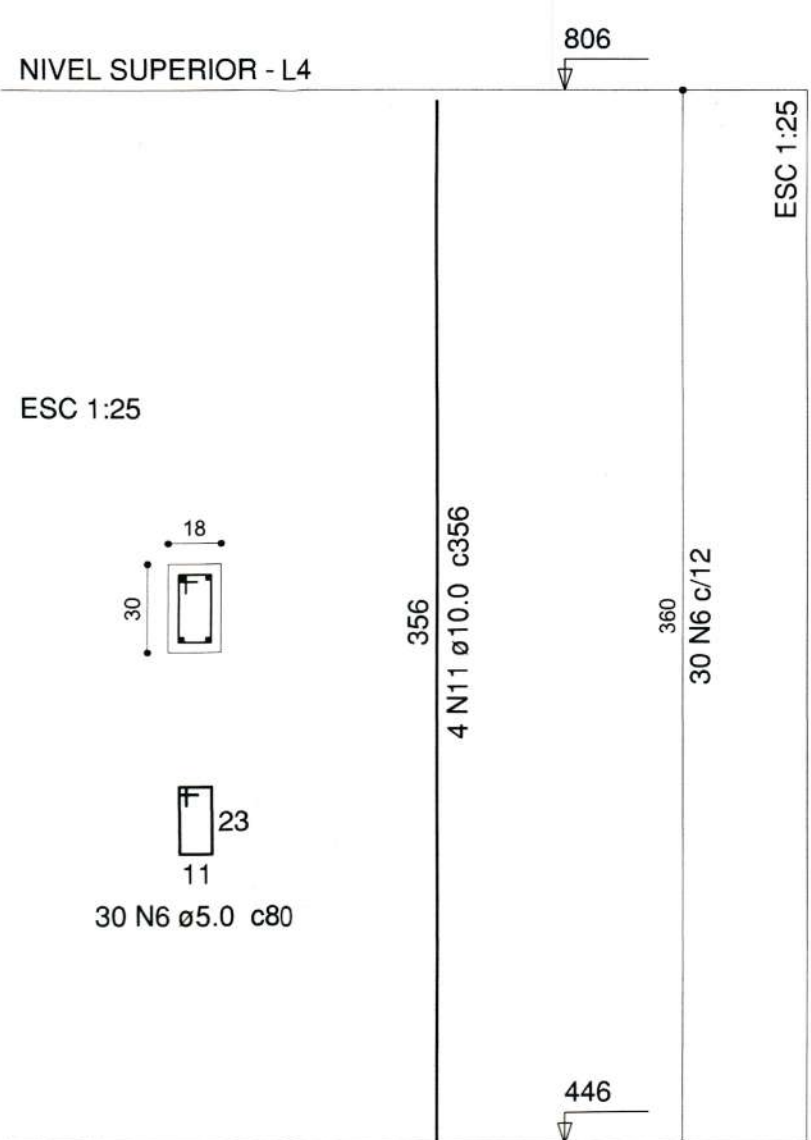
P76=P77



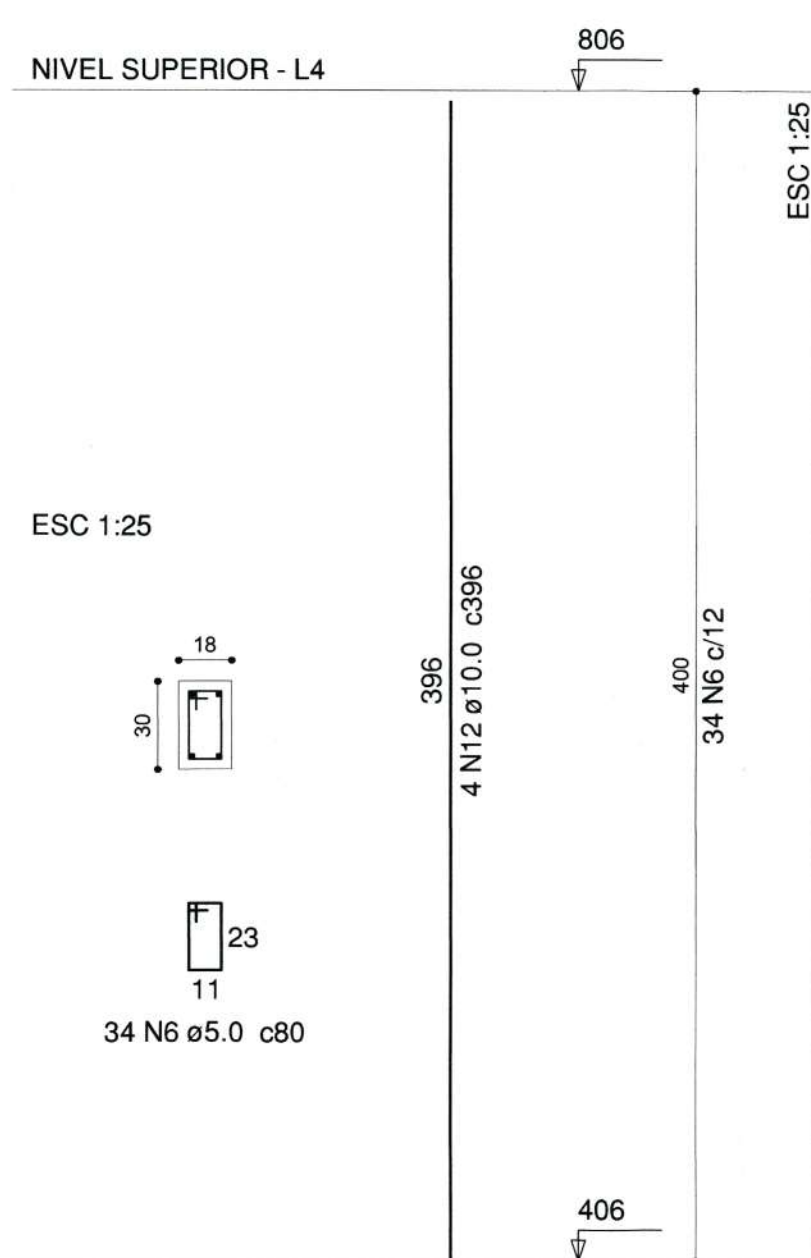
P83



P95



P96



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO

Conteúdo: Pilares cobertura - 3

Autores: ALEXANDRE SMORE SILVA CREA: 42.999-7

Ass.:

Co-Autor: Alexandre

Ass.:

Código: UBPP/Subsfpj.SCO

Data: 04/2020

Número Prancha: 34/38

Nota: Para o Código do Projeto Defina-se:
1 grupo - Executora do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo do Projeto;
4 grupo - Nome do Projeto (5 letras);
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

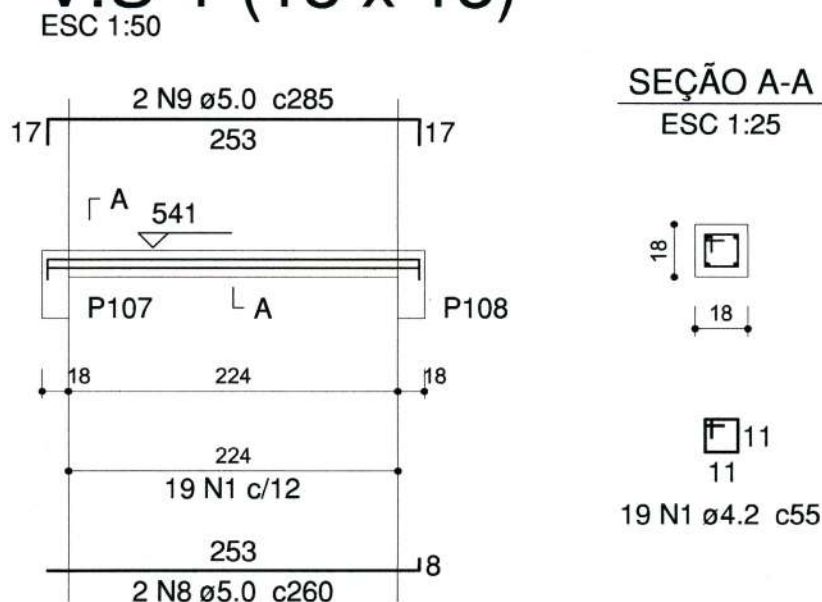
Requerente: Secretaria da Saúde

Escola: Indica

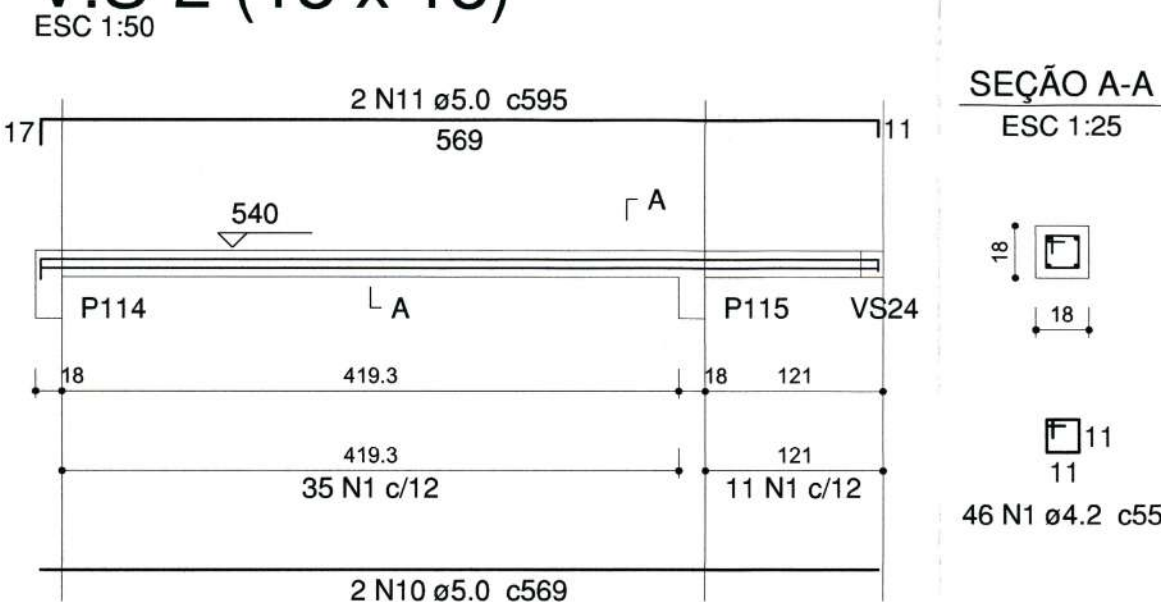
Desenhista CAD: Alexandre

SECRETARIA MUNICIPAL DE JORVIL
SECRETARIA DA SAÚDE
PREFEITO DA ROSA
Diretor Executivo
Matrícula 4127

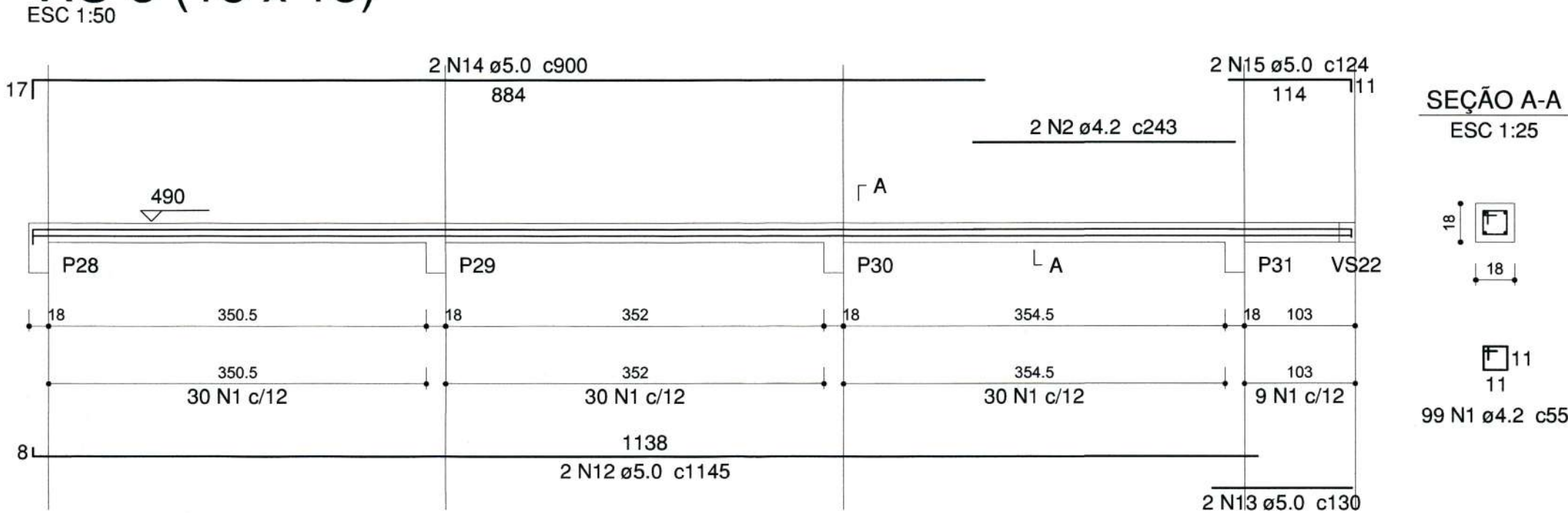
V.S-1 (18 x 18)



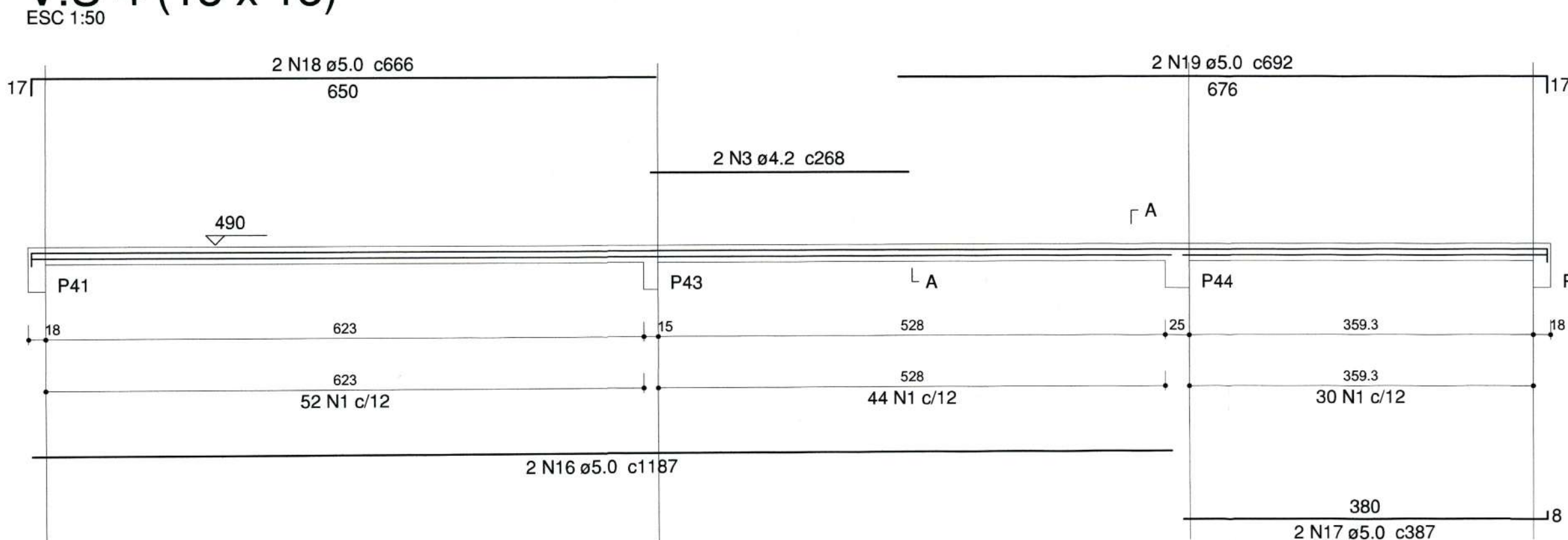
V.S-2 (18 x 18)



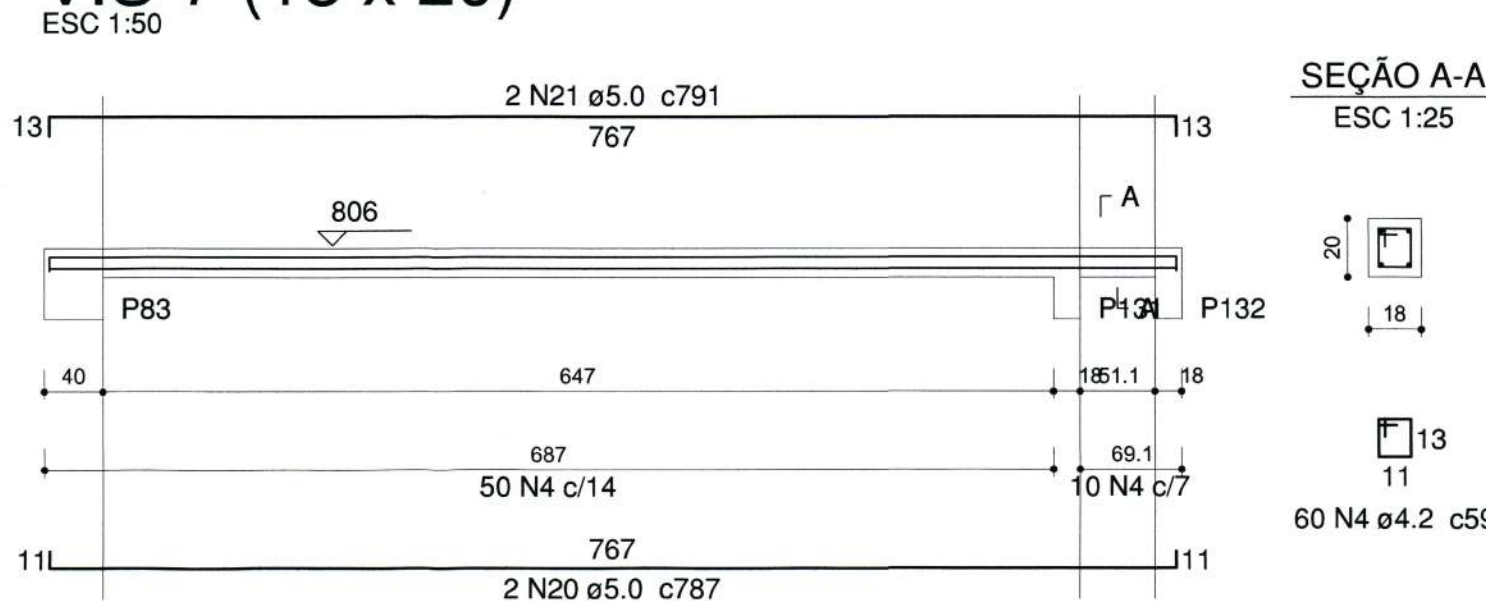
V.S-3 (18 x 18)



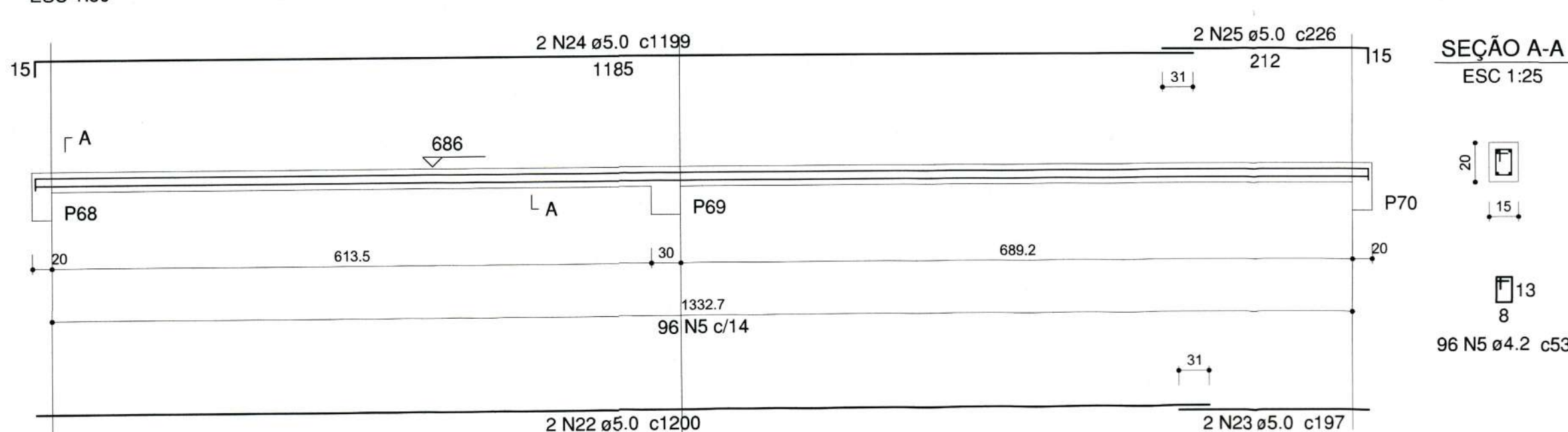
V.S-4 (18 x 18)



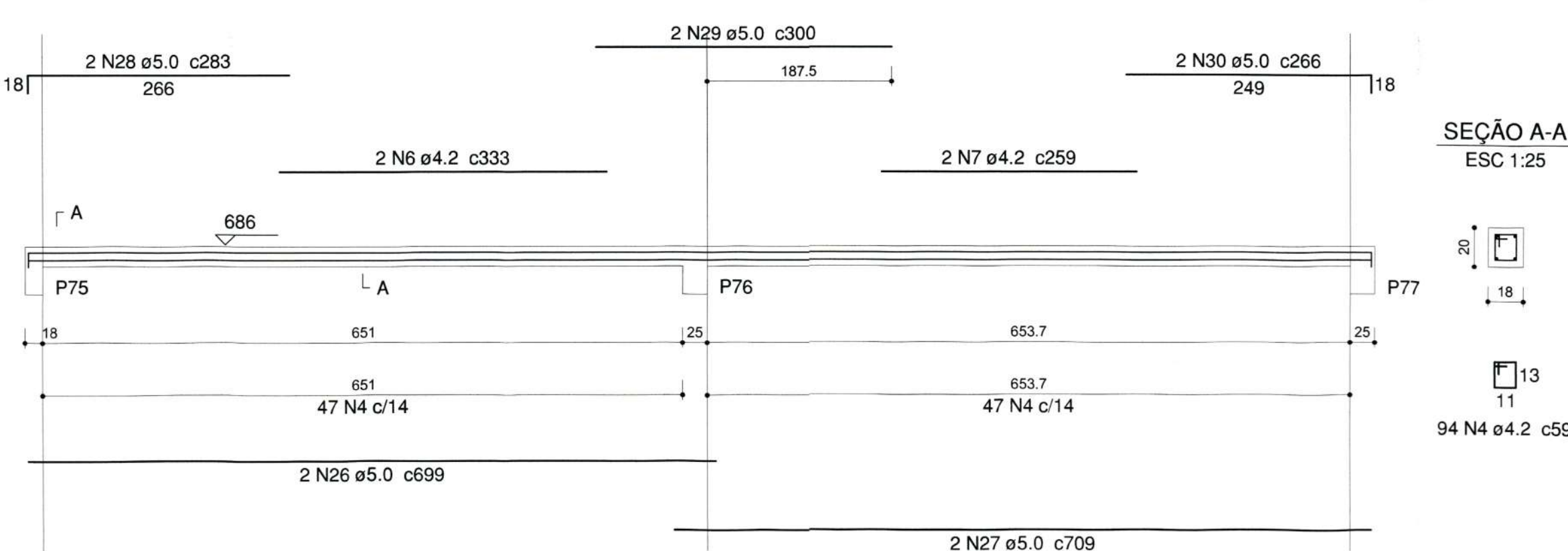
V.S-7 (18 x 20)



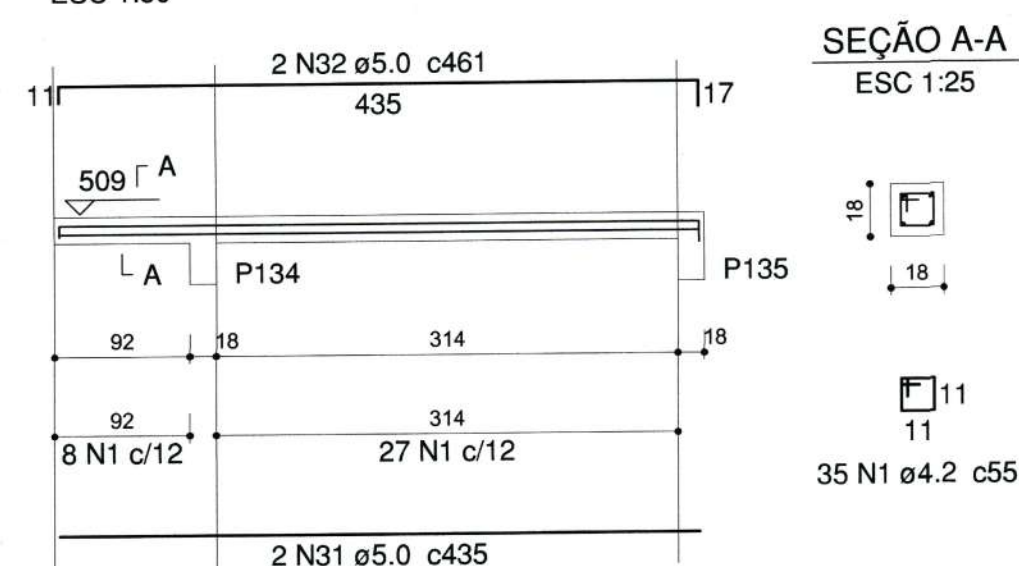
V.S-5 (15 x 20)



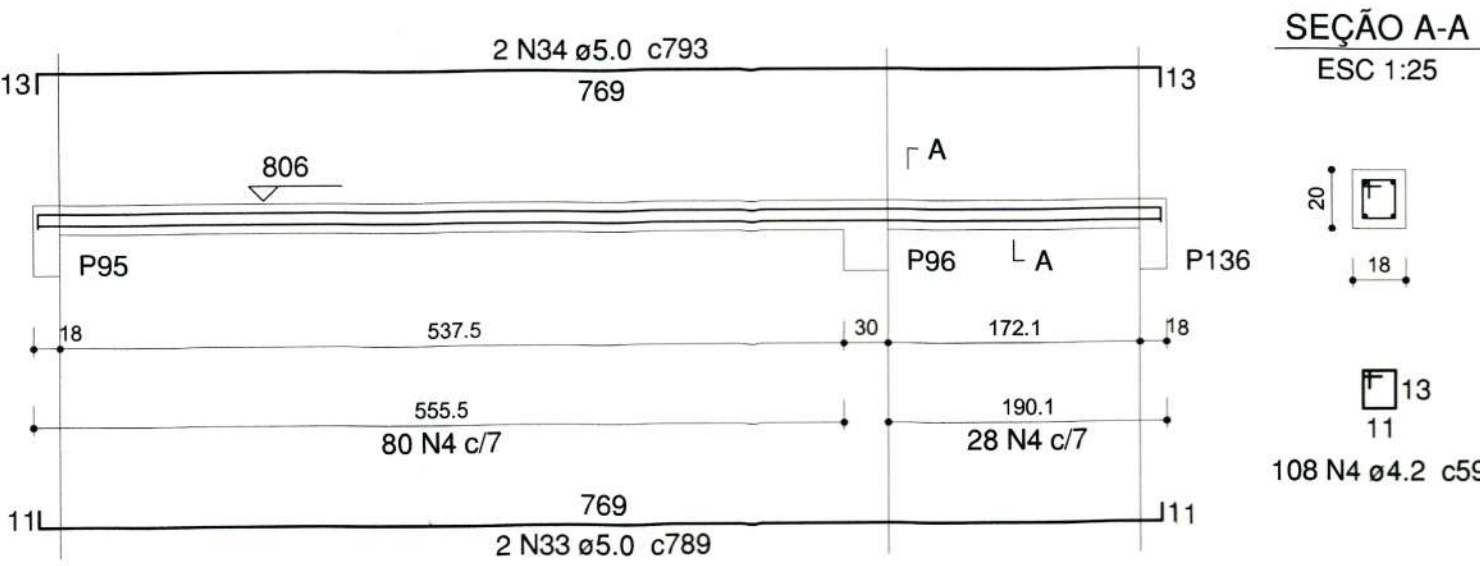
V.S-6 (18 x 20)



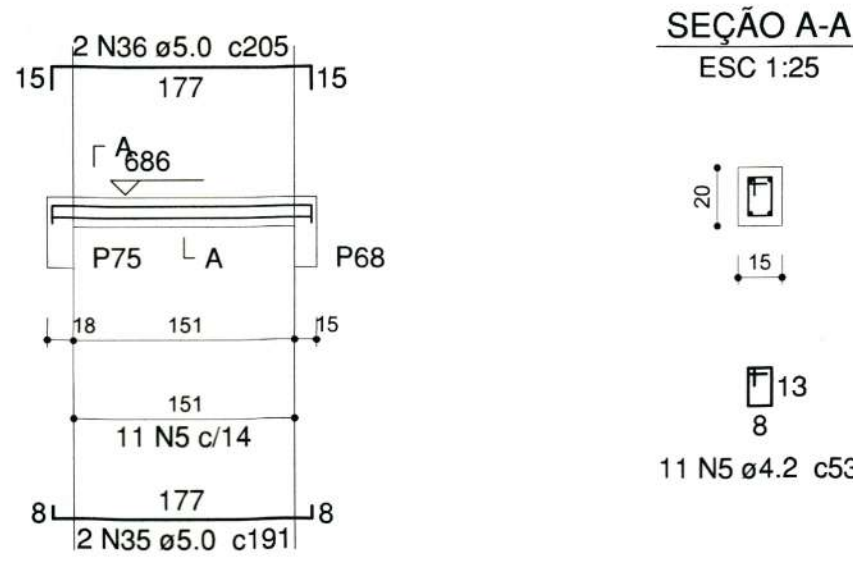
V.S-8 (18 x 18)



V.S-9 (18 x 20)



V.S-10 (15 x 20)



AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	325	55	17875
	2	4.2	2	243	486
	3	4.2	2	268	536
	4	4.2	262	59	15458
	5	4.2	107	53	5671
	6	4.2	2	333	666
	7	4.2	2	259	518
	8	5.0	2	260	520
	9	5.0	2	285	570
	10	5.0	2	569	1138
	11	5.0	2	595	1190
	12	5.0	2	1145	2290
	13	5.0	2	130	260
	14	5.0	2	900	1800
	15	5.0	2	124	248
	16	5.0	2	1187	2374
	17	5.0	2	387	774
	18	5.0	2	666	1332
	19	5.0	2	692	1384
	20	5.0	2	787	1574
	21	5.0	2	791	1582
	22	5.0	2	1200	2400
	23	5.0	2	197	394
	24	5.0	2	1199	2398
	25	5.0	2	226	452
	26	5.0	2	699	1398
	27	5.0	2	709	1418
	28	5.0	2	283	566
	29	5.0	2	300	600
	30	5.0	2	266	532
	31	5.0	2	435	870
	32	5.0	2	461	922
	33	5.0	2	789	1578
	34	5.0	2	793	1586
	35	5.0	2	191	382
	36	5.0	2	205	410

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA60	4.2	412.1	49.3
	5.0	329.5	55.9
PESO TOTAL (kg)			
CA60	105.2		

Volume de concreto (C-30) = 2.85 m³
Área de forma = 47.63 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA UBSF JARDIM PARAÍSO

Conteúdo: Vigas cobertura - 1

Autore: ALEXANDRE SMORE SILVA
Ass.: 12.999-7

Código: UBP/Subsfp.SCO

Data: 04/2020
Número Prática: 35/38

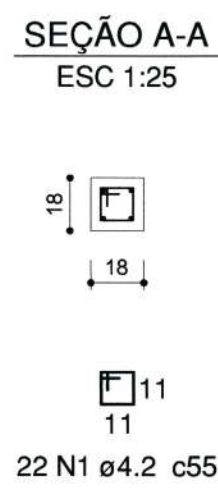
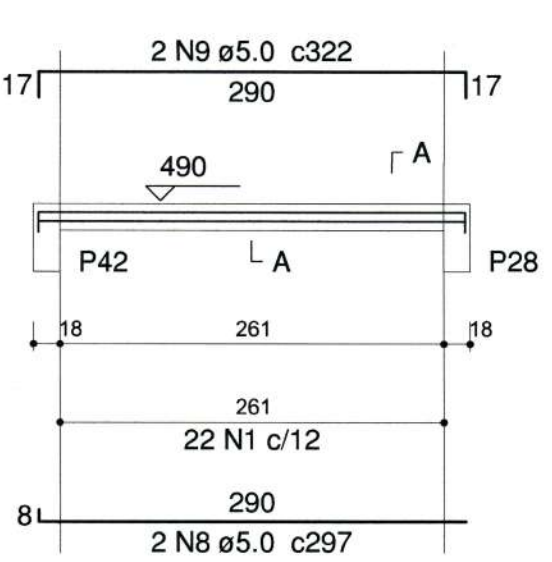
Requerente: Secretaria da Saúde

Nota: Para o Código do Projeto Definir-se:
1 grupo - Executora do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo de Projeto;
4 grupo - Nome do Projeto (5 letras);
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

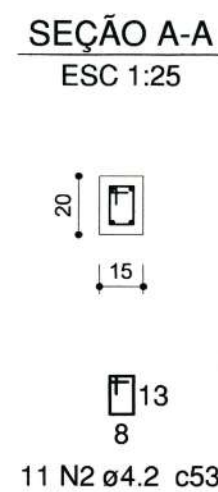
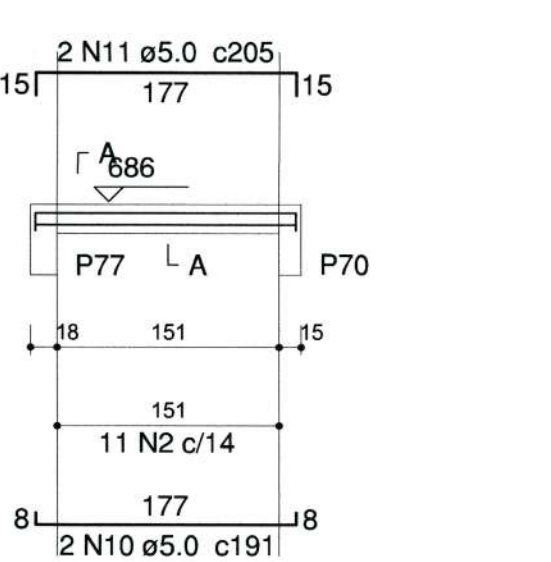
Desenhista CAD: Alexandre

PREFEITURA MUNICIPAL DE JOINVILLE
SECRETARIA DA SAÚDE
Pavilhão de ROS
Diretor Executivo
Metrícula 2163

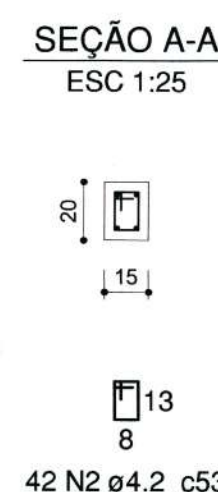
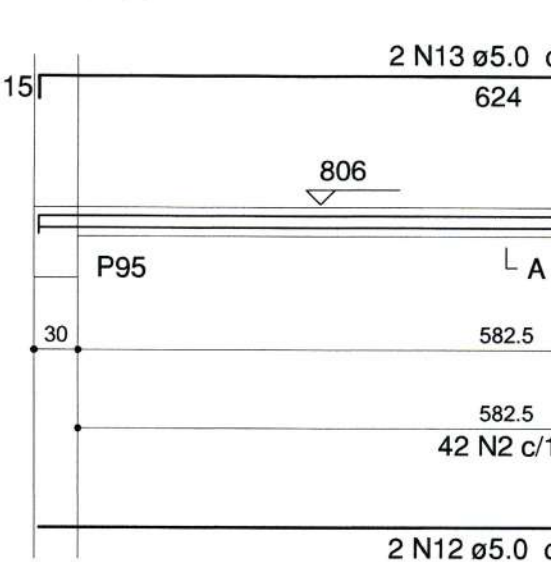
V.S-11 (18 x 18)



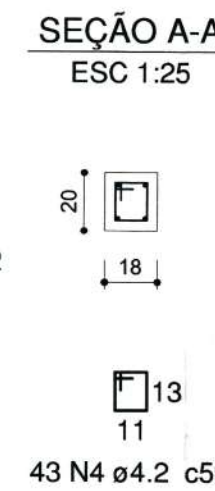
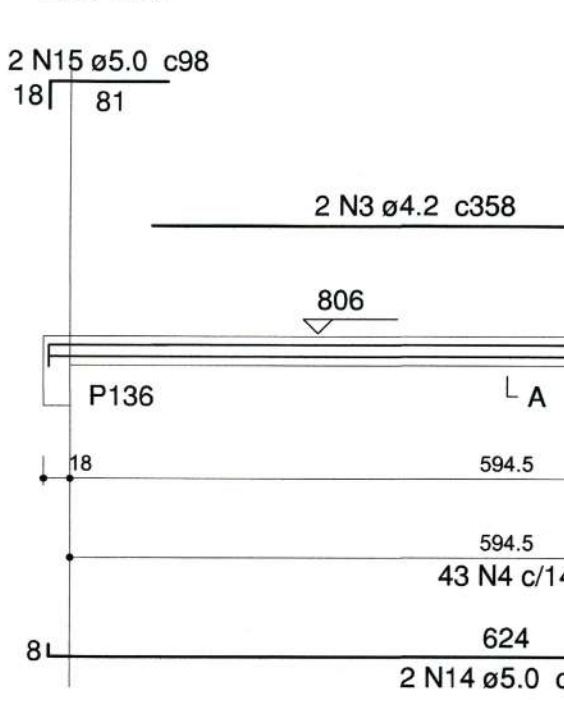
V.S-12 (15 x 20)



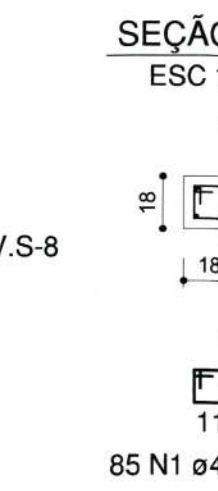
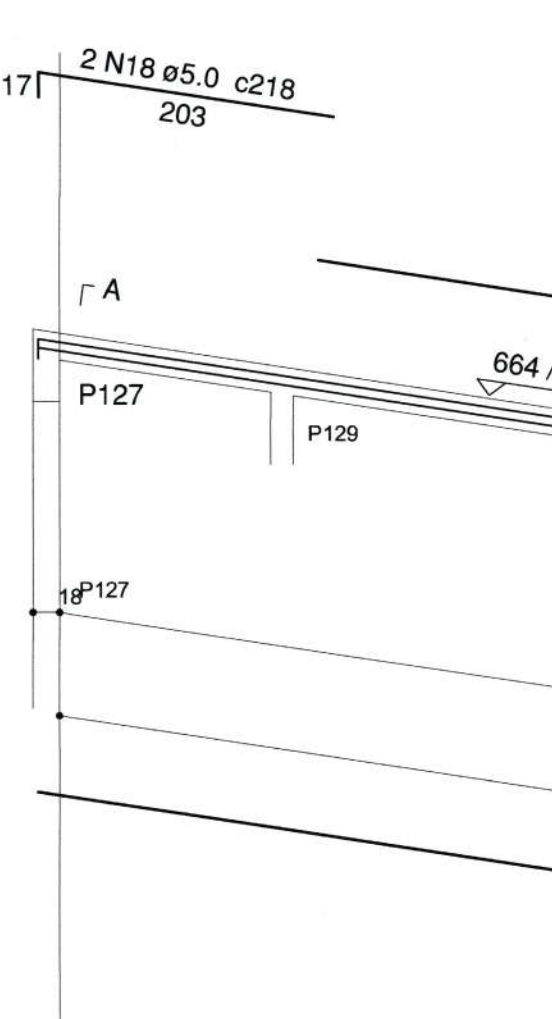
V.S-13 (15 x 20)



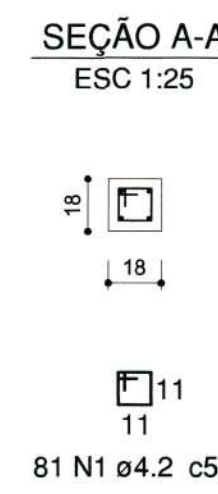
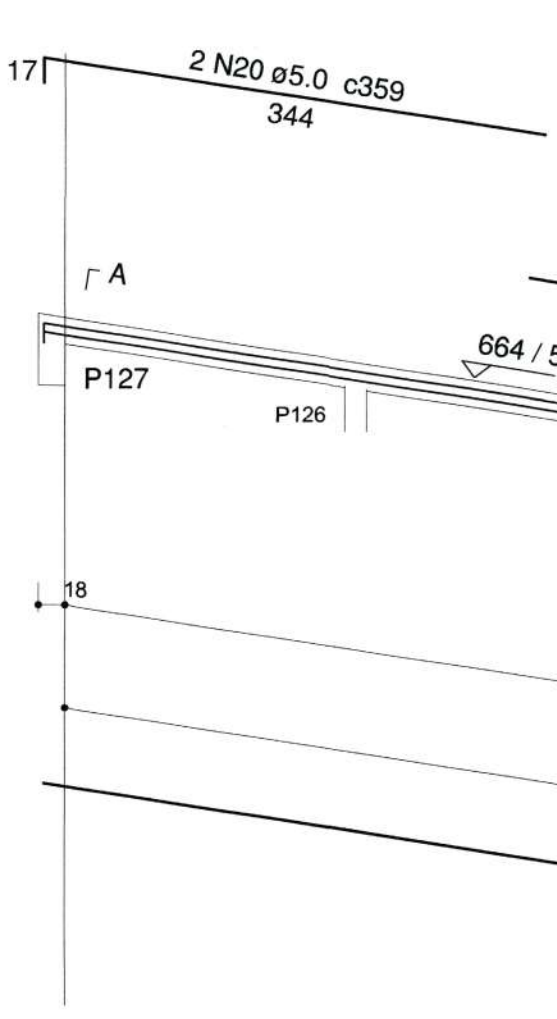
V.S-14 (18 x 20)



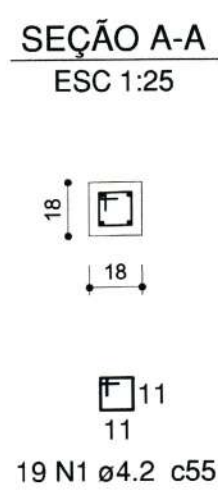
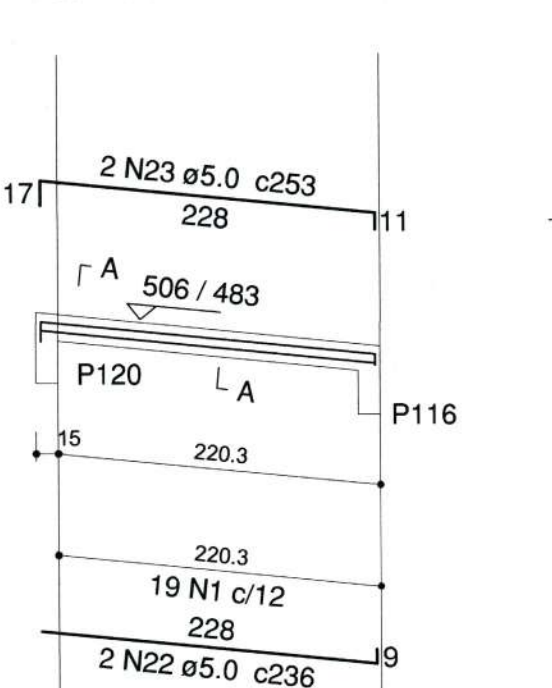
V.S-15 (18 x 18)



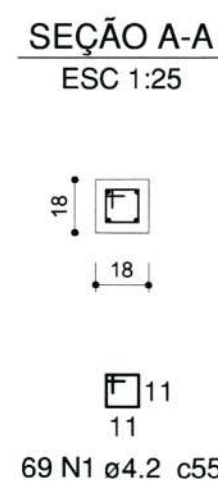
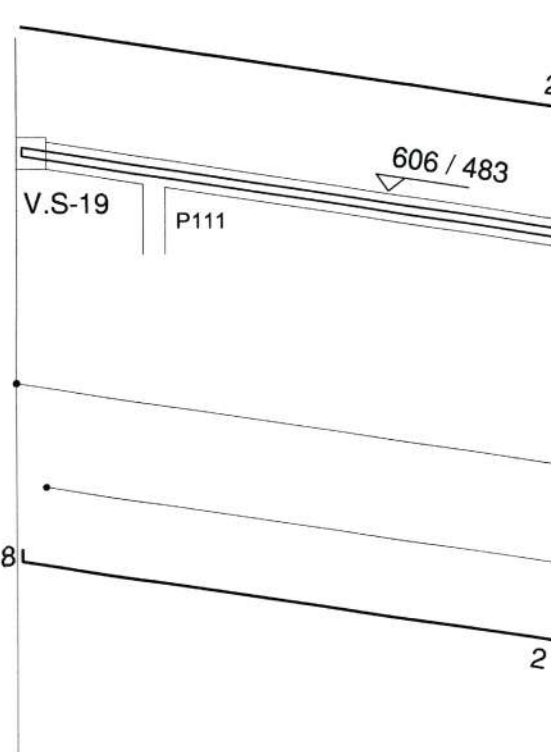
V.S-16 (18 x 18)



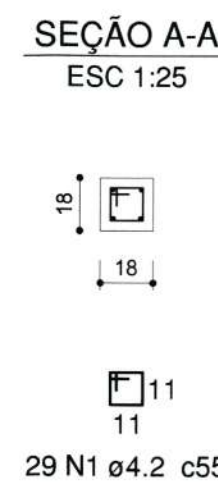
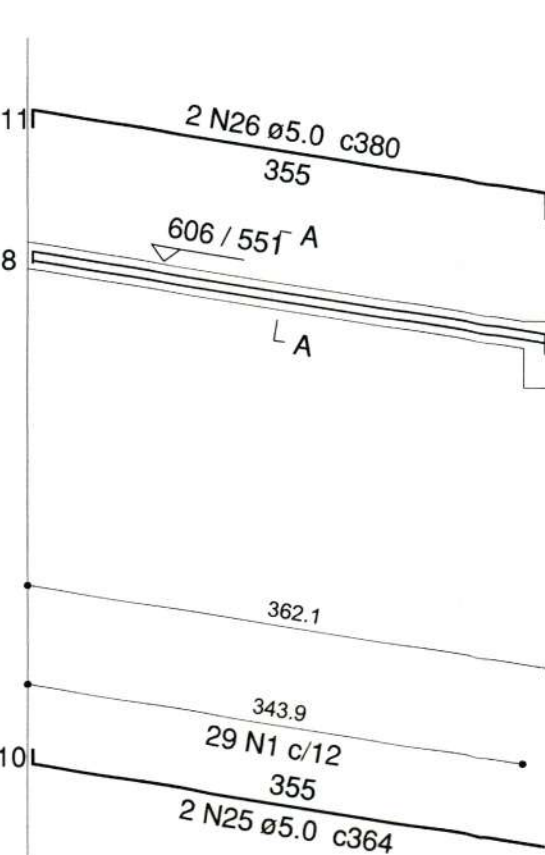
V.S-17 (18 x 18)



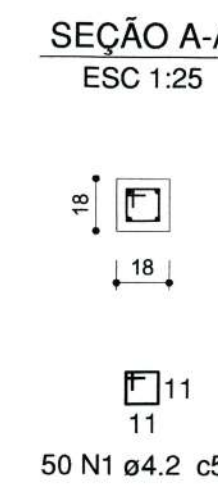
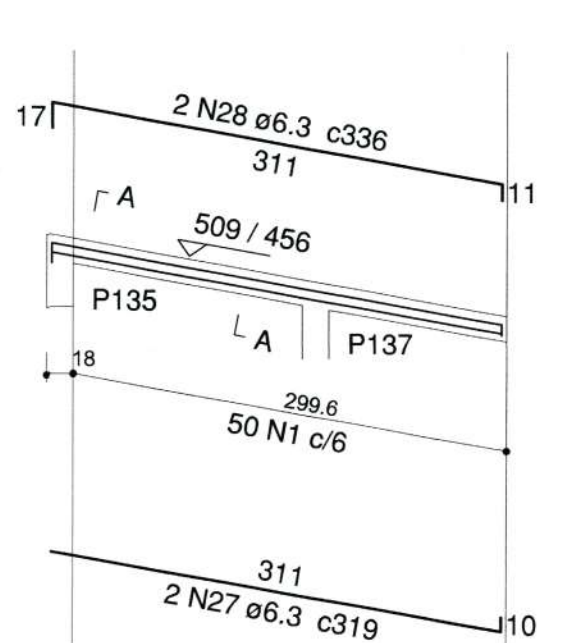
V.S-18 (18 x 18)



V.S-19 (18 x 18)



V.S-21 (18 x 18)



AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	355	55	19525
	2	4.2	53	53	2809
	3	4.2	2	358	716
	4	4.2	43	59	2537
	5	4.2	2	854	1708
	6	4.2	2	371	742
	7	4.2	2	851	1702
	8	5.0	2	297	594
	9	5.0	2	322	644
	10	5.0	2	191	382
	11	5.0	2	205	410
	12	5.0	2	624	1248
	13	5.0	2	652	1304
	14	5.0	2	631	1262
	15	5.0	2	98	196
	16	5.0	2	223	446
	17	5.0	2	1047	2094
	18	5.0	2	218	436
	19	5.0	2	1000	2000
	20	5.0	2	359	718
	21	5.0	2	320	640
	22	5.0	2	236	472
	23	5.0	2	253	506
	24	5.0	2	864	1728
	25	5.0	2	364	728
	26	5.0	2	380	760
	27	6.3	2	319	638
	28	6.3	2	336	672

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	13.1	3.5
CA60	4.2	297.4	35.6
	5.0	165.7	28.1
PESO TOTAL (kg)			
CA50		3.5	
CA60		63.7	

Volume de concreto (C-30) = 1.8 m³
Área de forma = 30.21 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO

Conteúdo: Vigas cobertura - 2

Assinatura: Alexandre Smore S. A. CREA: 42.999-7
Ass.:
Código: UBP/Subsfp.SCO

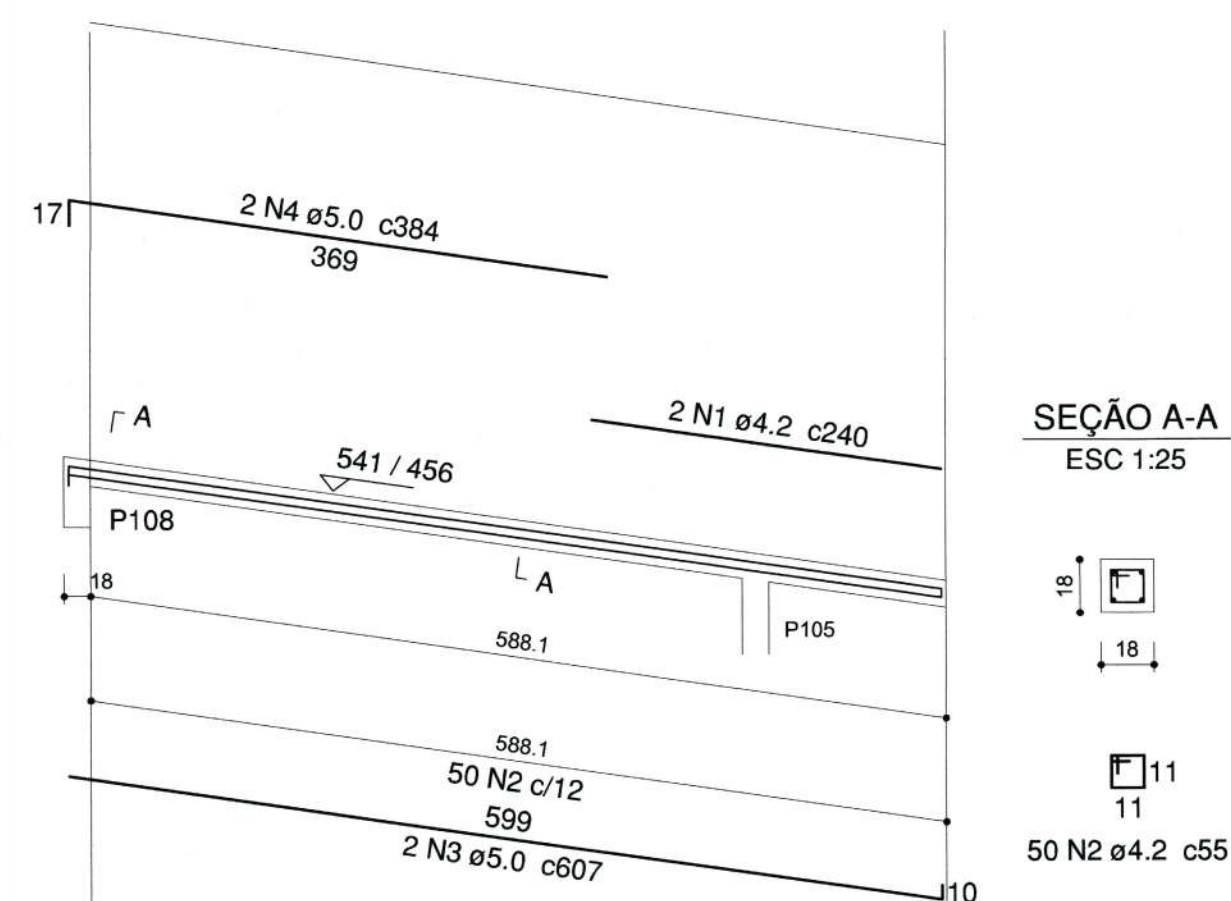
Co-Autor: Alexandre
Ass.:
Data: 04/2020
Número Prancha: 36/38

Requerente: Secretaria da Saúde
Ass.:
Escala: Indicada
Desenhista CAD: Alexandre

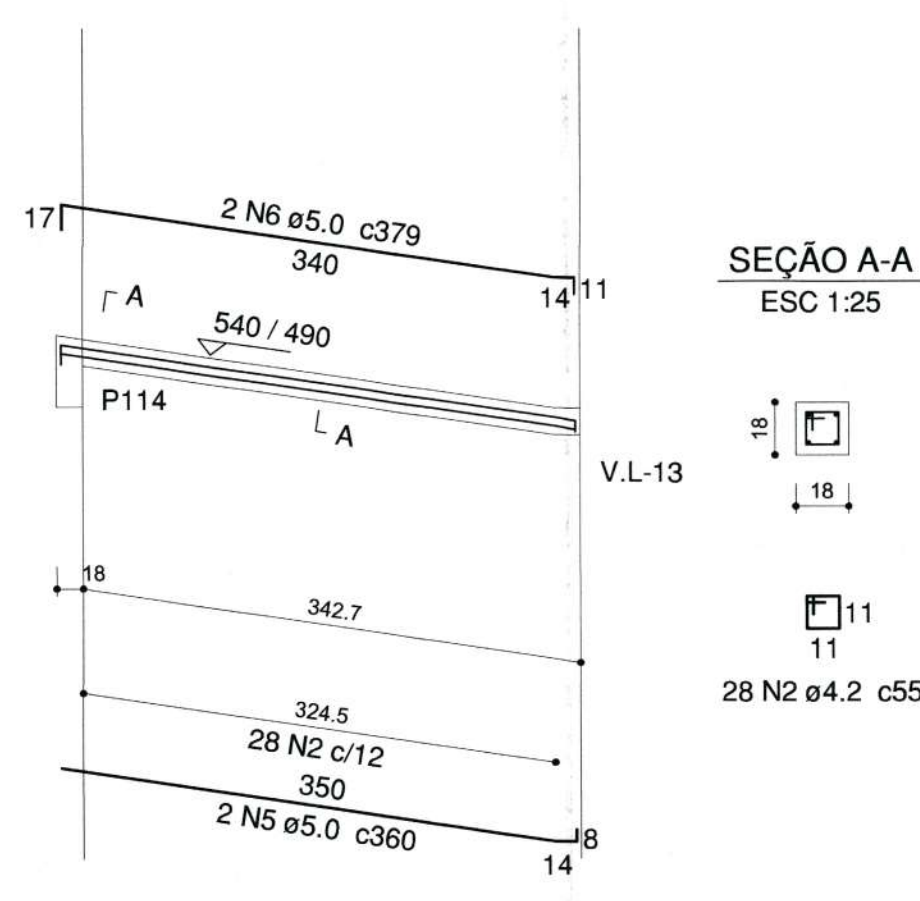
Nota: Para o Cálculo do Projeto Definir-se:
1 grupo - Execução do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo de Projeto;
4 grupo - Nome do Projeto (5 letras);
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

PREFEITURA MUNICIPAL DE JORVILLE
SECRETARIA DA SAÚDE
SECRETÁRIO DA SAÚDE
DR. Alexandre
Mantendo 1/21

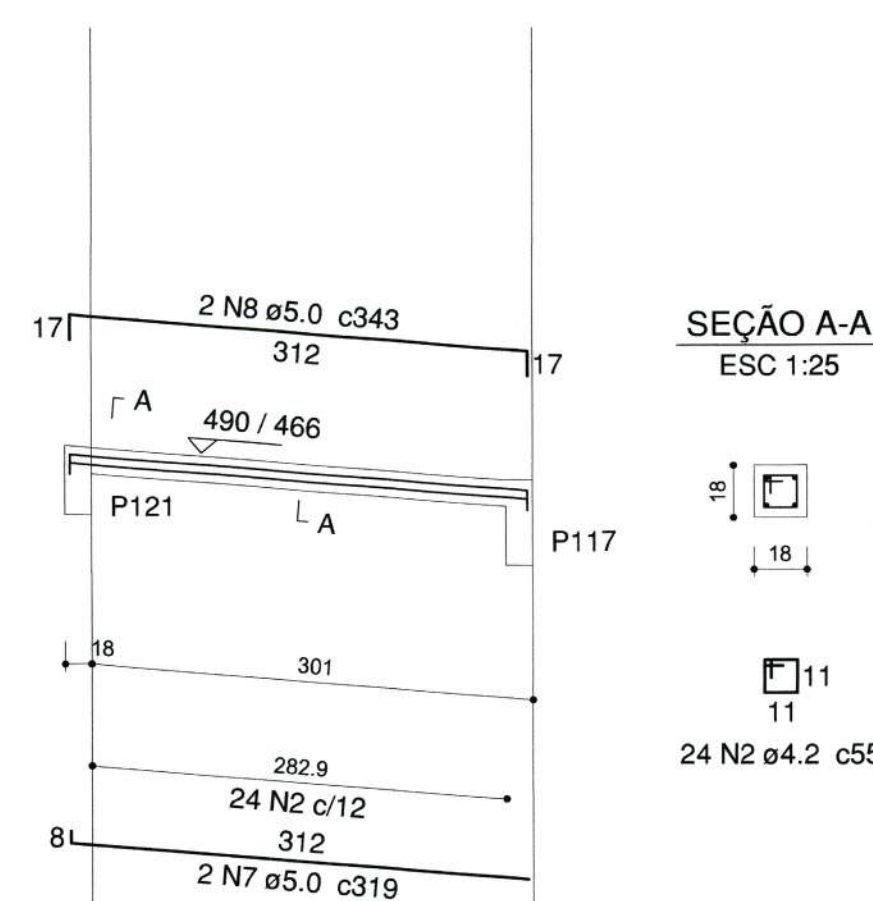
V.S-20 (18 x 18)
ESC 1:50



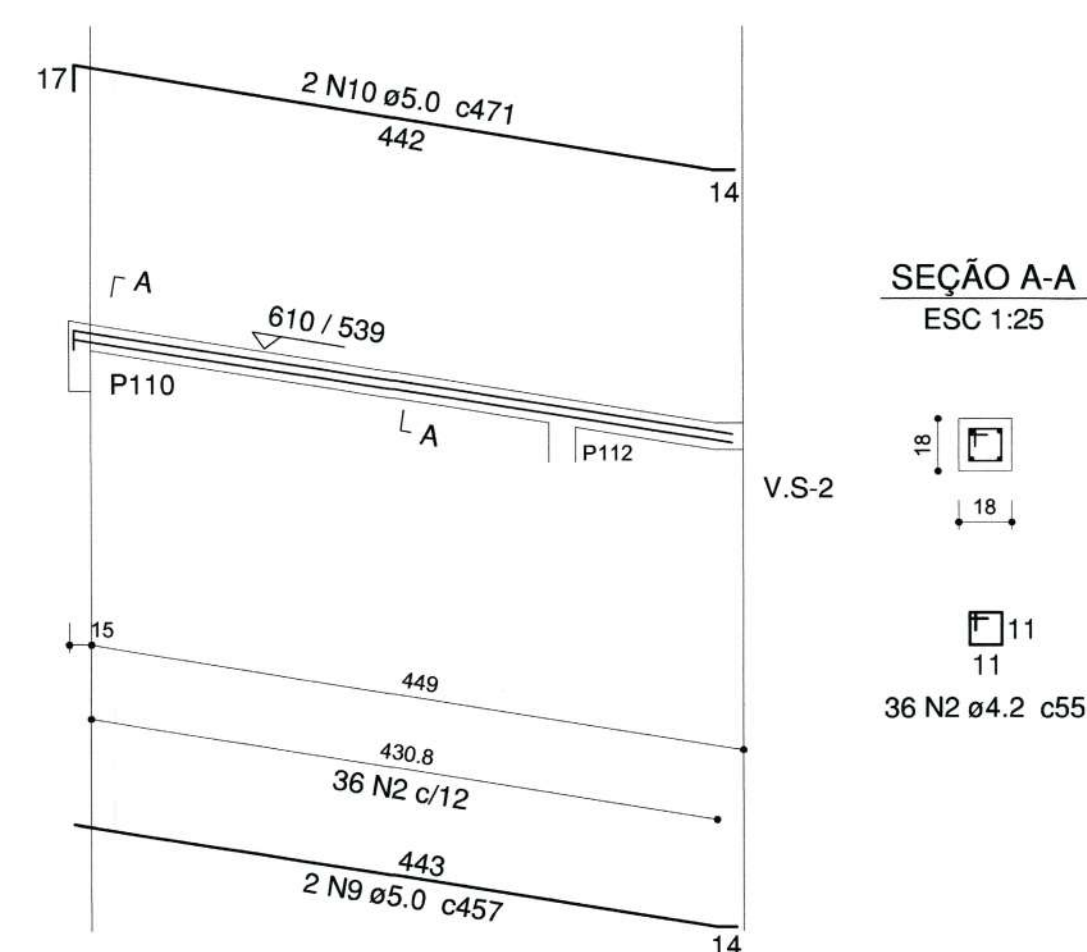
V.S-22 (18 x 18)
ESC 1:50



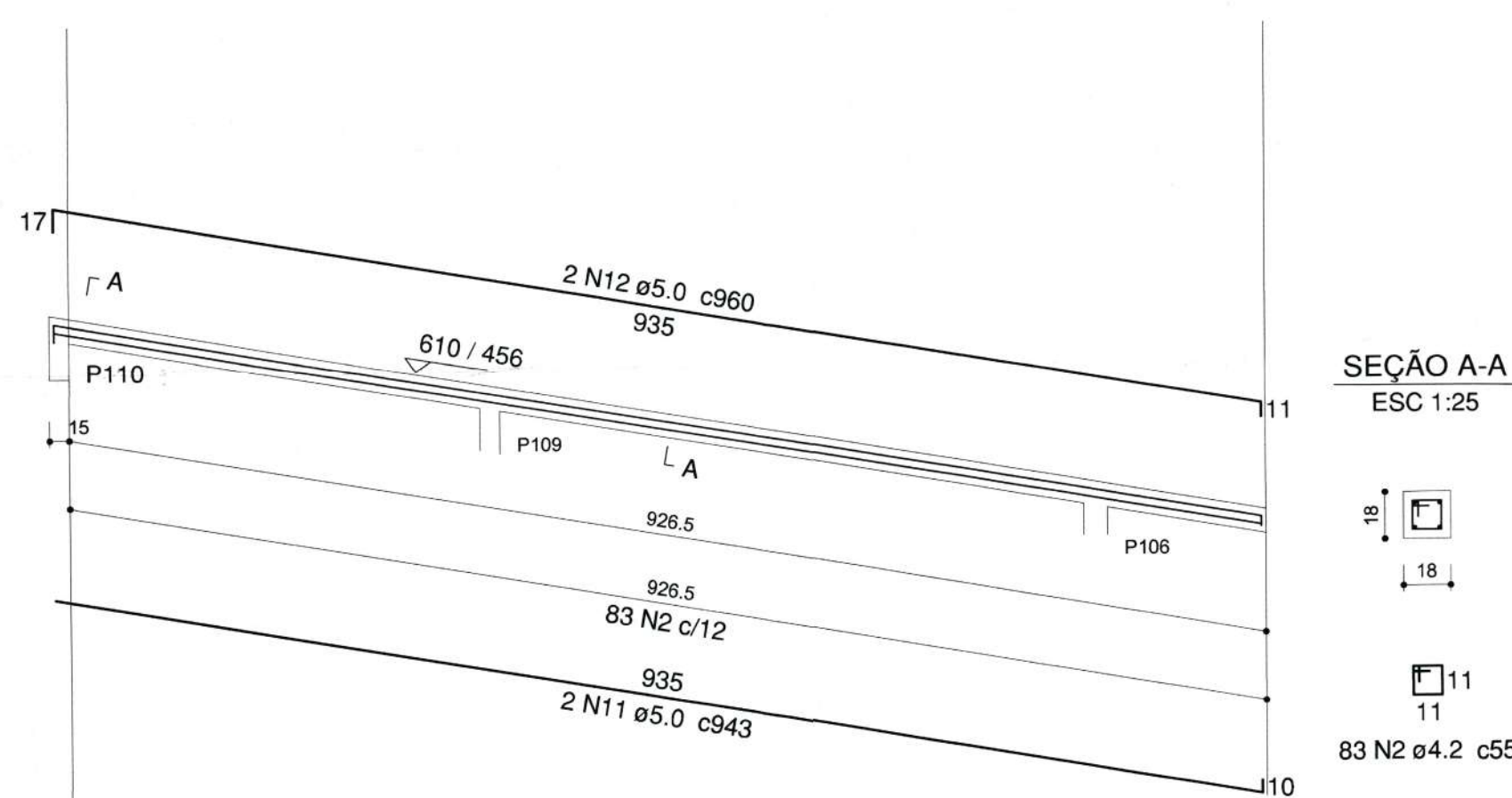
V.S-23 (18 x 18)
ESC 1:50



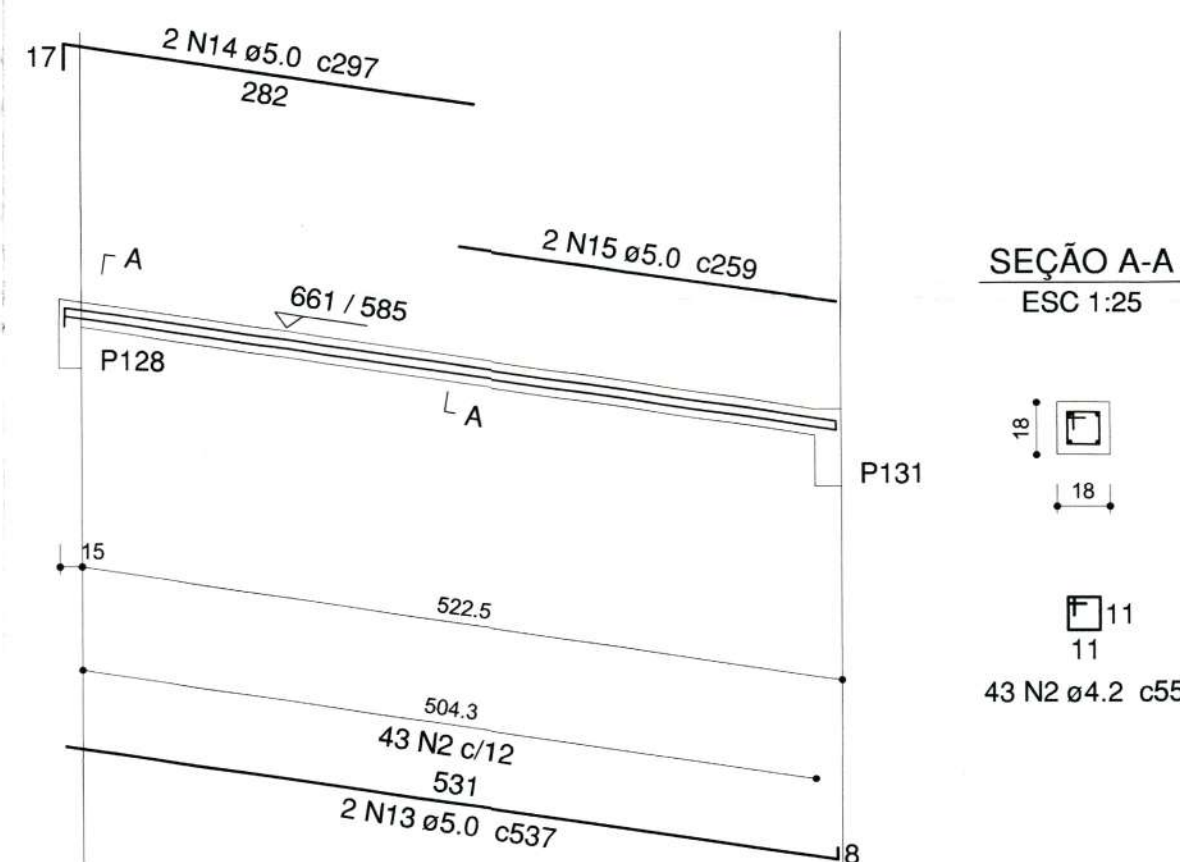
V.S-24 (18 x 18)
ESC 1:50



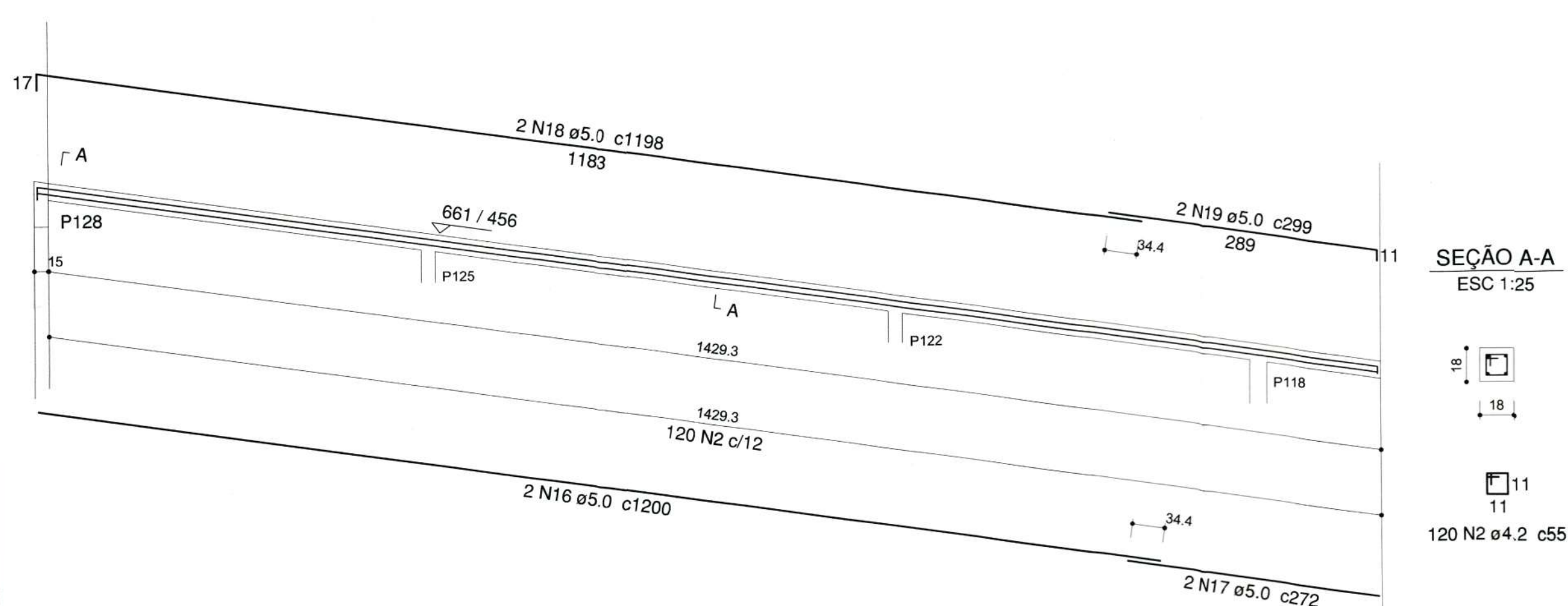
V.S-25 (18 x 18)
ESC 1:50



V.S-26 (18 x 18)
ESC 1:50



V.S-27 (18 x 18)
ESC 1:50



AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	4.2	2	240	480
	2	4.2	384	55	21120
	3	5.0	2	607	1214
	4	5.0	2	384	768
	5	5.0	2	360	720
	6	5.0	2	379	758
	7	5.0	2	319	638
	8	5.0	2	343	686
	9	5.0	2	457	914
	10	5.0	2	471	942
	11	5.0	2	943	1886
	12	5.0	2	960	1920
	13	5.0	2	537	1074
	14	5.0	2	297	594
	15	5.0	2	259	518
	16	5.0	2	1200	2400
	17	5.0	2	272	544
	18	5.0	2	1198	2396
	19	5.0	2	299	598

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA60	4.2	216	25.8
	5.0	185.7	31.5

PESO TOTAL (kg)
CA60 57.3

Volume de concreto (C-30) = 1.5 m³
Área de forma = 24.97 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS



SECRETARIA DE INFRAESTRUTURA URBANA
UNIDADE DE BANCO DE PROJETOS

Projeto: PROJETO DE ESTRUTURA
UBSF JARDIM PARAÍSO

Conteúdo: Vigas cobertura - 3

Autores:
Autor: ALEXANDRE SMORE SILVA - CREA 42.999-7

Co-Autor:

Requerente: Secretaria da Saúde

Escala: Indicada

Ass.: Alexandre

Ass.: Alexandre

Ass.: Alexandre

Ass.: Alexandre

Ass.: Alexandre

Código: UBP/Subsfp.SCO

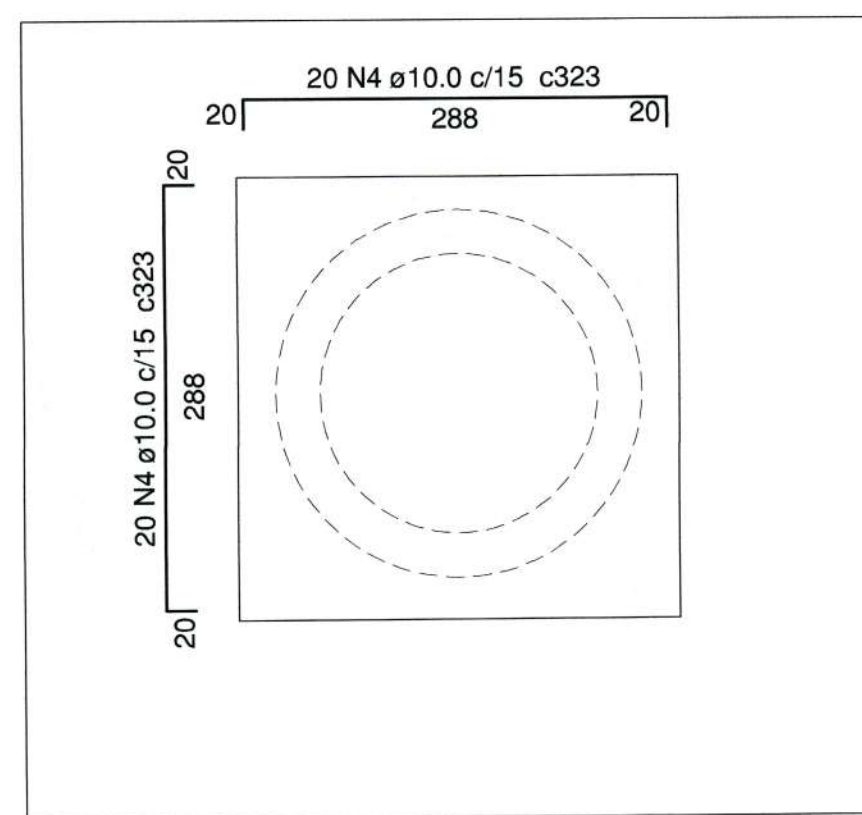
Data: 04/2020

Número Prancha: 37/38

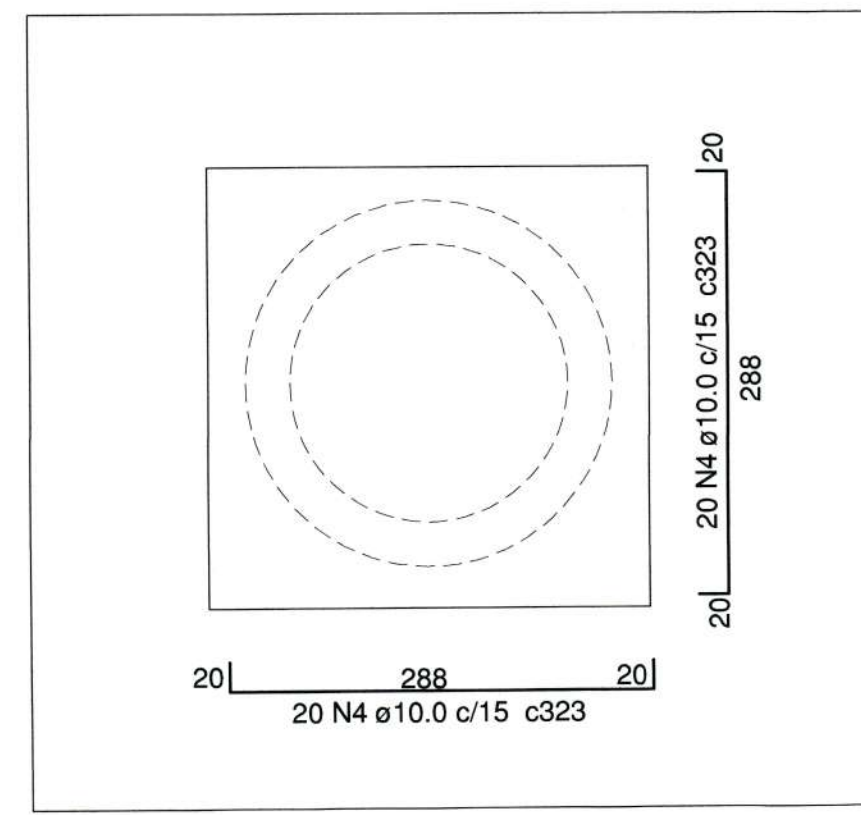
Nota: Para o Código do Projeto Definir-se:

1 grupo - Executora do Projeto;
2 grupo - Secretaria, Fundação entre outros;
3 grupo - Tipo de Projeto;
4 grupo - Nome do Projeto (5 letras);
5 grupo - Número do Projeto;
6 grupo - Revisão / Ano.

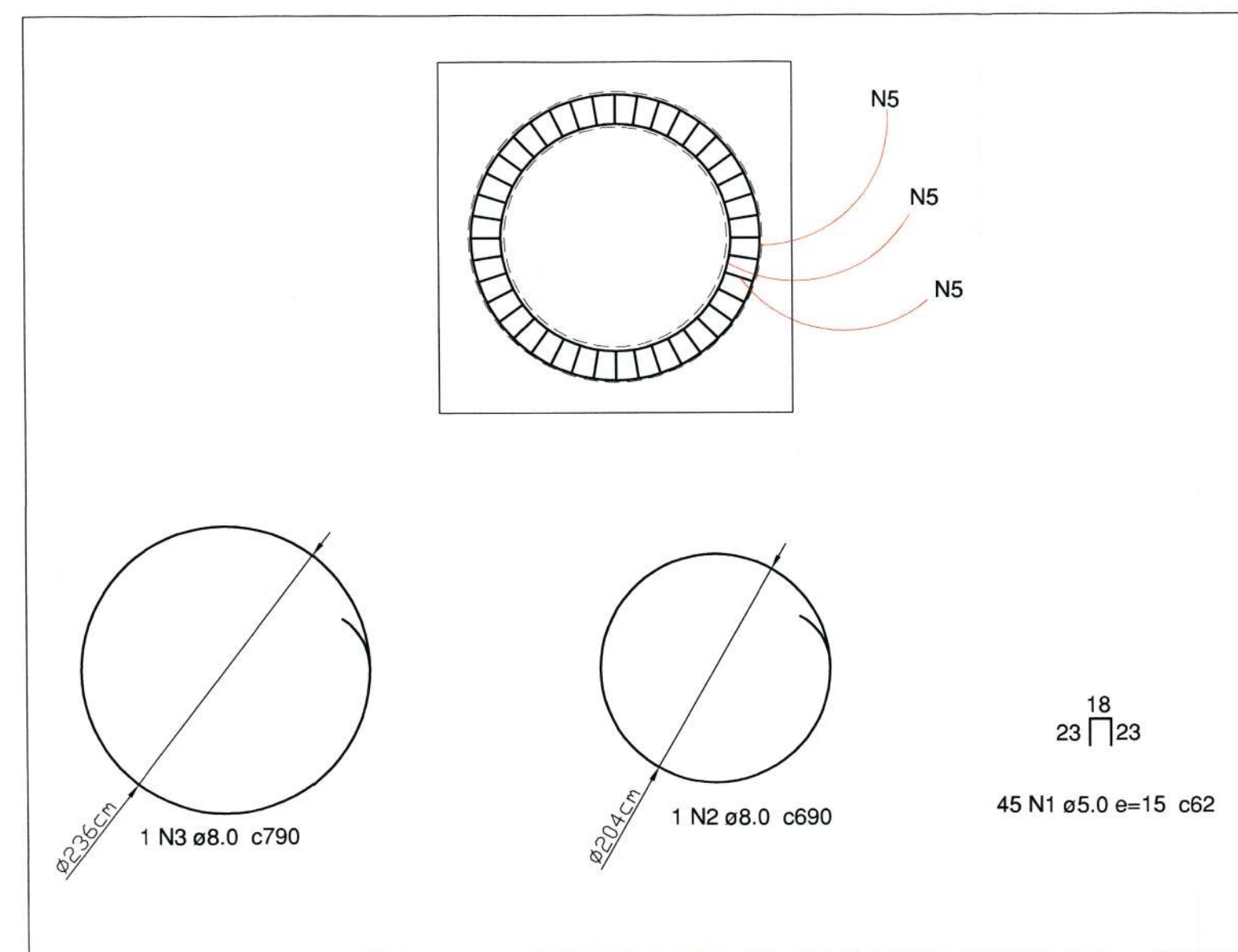
PRÉFECTURA MUNICIPAL DE JARAMATÃ
SECRETARIA DA SAÚDE
Fabricio da Rosa
Diretor Executivo
Matrícula: 11271



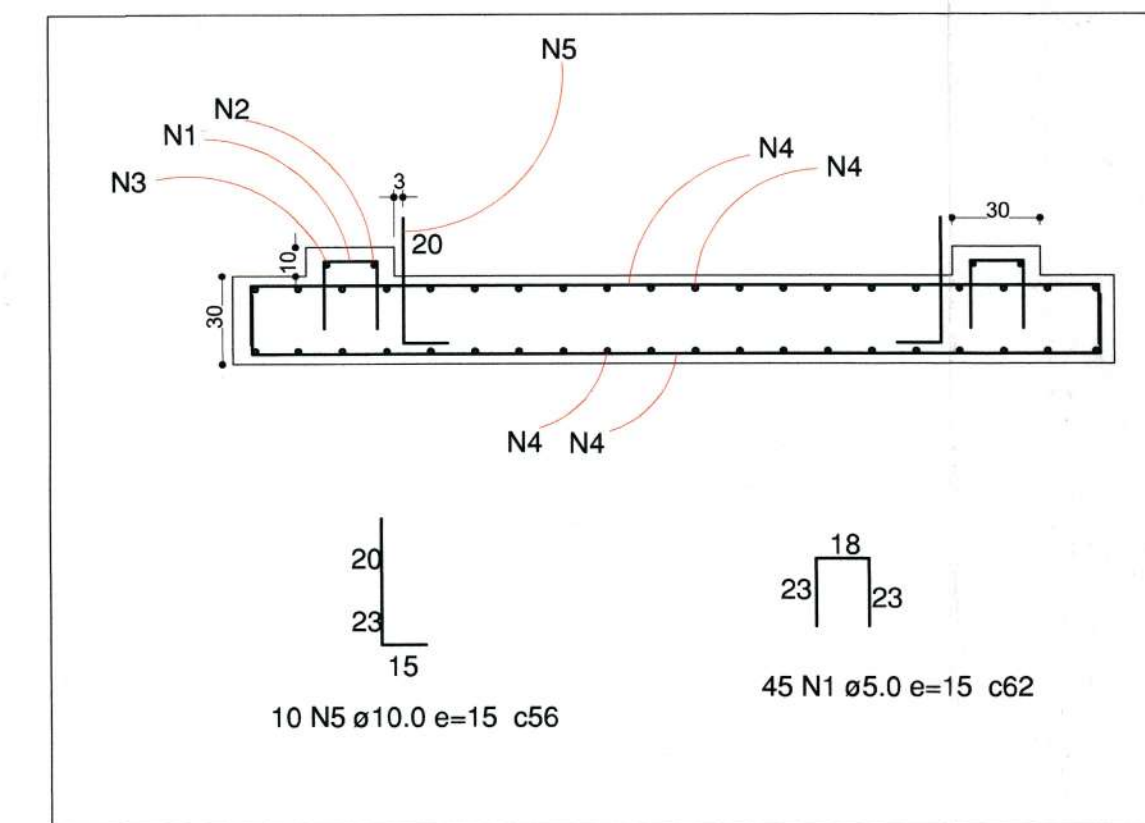
Armação negativa Base Caixa
escala 1:50



Armação positiva Base Caixa
escala 1:50



Armação da saliência Base Caixa
escala 1:50



Detalhe em corte Base Caixa
escala 1:25

Relação do aço

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	45	62	2790
CA50	2	8.0	1	690	690
	3	8.0	1	790	790
	4	10.0	80	323	25840
	5	10.0	10	56	560

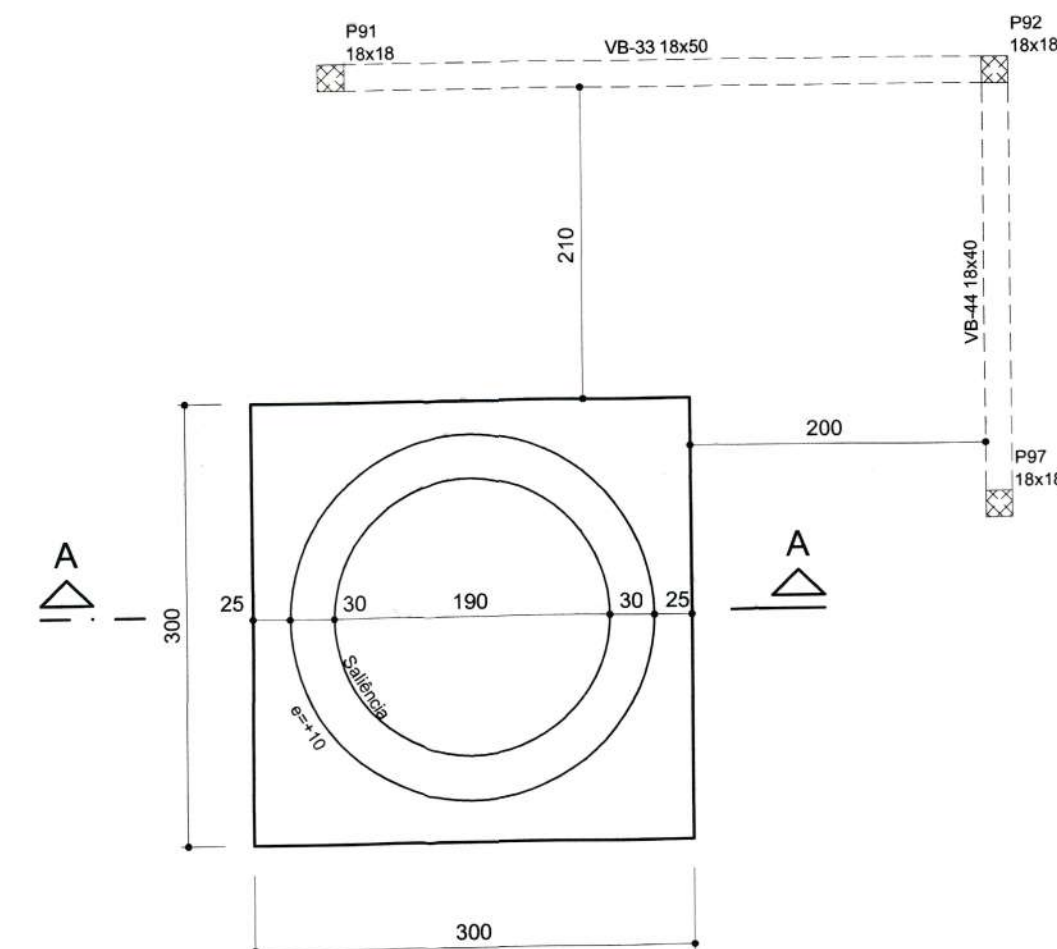
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	14.8	6.4
CA60	10.0	264	179
CA60	5.0	27.9	4.7
PESO TOTAL (kg)			
CA50	185.5		
CA60	4.7		

Volume de concreto (C-30) = 2.91 m³
Área de forma = 4.98 m²

Volume de concreto magro 3cm = 0.36 m³
Área de apoio = 12.25 m²

-OS ESPAÇAMENTOS DETERMINADOS NESTE PROJETO DEVERÃO SER FEITOS COM ESPAÇADORES INDUSTRIALIZADOS

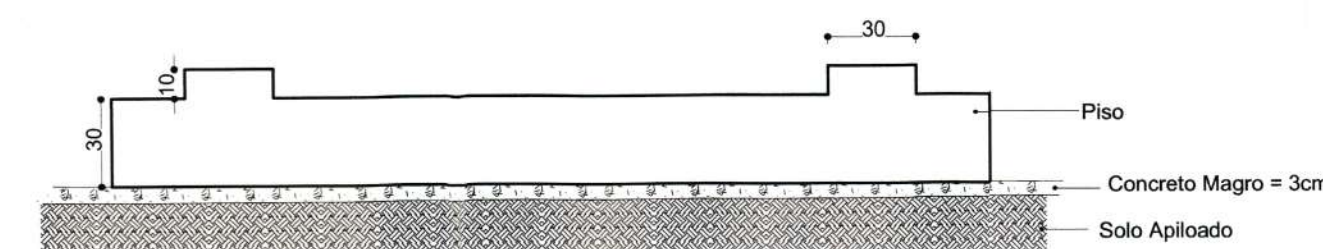


Forma da Base Caixa
escala 1:50

Nome	Tipo	Altura (cm)	Elevação (cm)	Sobrecarga (kg/m²)
Base	Maciça	30	10	4600

fc	fcd	fct	Abatimento (cm)
300	260716	29	9.00

Dimensão máxima do agregado = 5 mm



Corte A-A
escala 1:25

		SECRETARIA DE INFRAESTRUTURA URBANA UNIDADE DE BANCO DE PROJETOS	
PROJETO DE ESTRUTURA UBSF JARDIM PARAÍSO			
Base caixa água - formas e detalhes			
Autores: Autor: ALEXANDRE SMORE SILVA - AREA: 42.999-7 Co-Autor:		Código: Ass.: Data: 04/2020 Número Pranchas: 38/38	
Requerente: Secretaria da Saúde		Nota: Para o Código do Projeto Defina-se: 1 grupo - Executora do Projeto; 2 grupo - Secretaria, Fundação entre outros; 3 grupo - Tipo de Projeto; 4 grupo - Nome do Projeto (5 letras); 5 grupo - Número do Projeto; 6 grupo - Revisão / Ano.	
Escala: Indicada		Desenhista CAD: Alexandre	