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[illegible]

ARQUIVO: G:\Belo Oriente - ORÇAMENTAÇÃO\COLATINA\FAT-CL-048 - ELABOR PROJ. ARQ E COMPLEM. AMPLIAÇÃO REFORMA CÂMARA MUNICIPAL RIO BANANAL\PROPOSTAS E CONTRATOS\FAT-CL-JP-048\PROJETO ESTRUTURAL

BALDRAME - L1
ESC 1:20

20
40
14
34
13 N3 ø5.0 C=108
13 N4 ø5.0 C=29
VAR
N4
64
VAR
VAR
13 N3 ø12
13 N3 ø12
ESC 1:25

Diagram of a rectangular plate with a trapezoidal hole. The plate has a width of 70 and a height of 95. The hole has a top width of 20 and a bottom width of 64. The hole is positioned 40 units from the top edge and 14 units from the bottom edge. The remaining height on the right side is 89. The total height on the right side is 113. The total width on the bottom is 88. The total width on the top is 70. The total height on the left is 95.

The diagram shows a vertical pipe with a horizontal section at the bottom. The vertical section is labeled 'VAR' and '150(+/-35)'. The horizontal section is labeled '20' and '35'. A horizontal line at the top is labeled '0'.



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

VBI
ESC 1:50

24m 28m

2 N31 ø12.5 C=653 (1c)

607

0

A

VB8 P1 A P2 P3

14 x 30 207.7 243.4 243.4

6 N1 c/15 14 N1 c/15 17 N1 c/15

10 128 309 10

2 N6 ø8.0 C=136 (1c) 3 N7 ø8.0 C=317 (1c)

2 N25 ø10.0 C=304 (1c)

SEÇÃO A-A
ESC 1:25

30 14 24 8

37 N1 ø5.0 C=17

V.B4
ESC 1:50

2 N33 ø12,5 C=621 (1c)
561
1 N32 ø12,5 C=190 (2c)
85
2 N9 ø8,0 C=486 (1c)
463
1 N8 ø8,0 C=95 (2c)
72
0
P4 VB4 P5 P6
20.3 247.9 40 238.4 20
14 x 40 14 x 40
526.3
27 N2 c/20
N4 ø6,3 C=79
38
3 N4 ø6,3 C=79
38
1 N26 ø10,0 C=374 (2c)
364
556
1 N27 ø10,0 C=573 (2c)
561
2 N28 ø10,0 C=580 (1c)
12 12 12

SEÇÃO A-A
ESC 1:25

40
14
34
8
27 N2 ø5,0 C=96

V.B3
ESC 1:50

SEÇÃO A-A
ESC 1:25

25 375 41 1

2 N34 ø12.5 C=435 (1c)

0

P15 L A P16

20.2 341.2 20

14 x 30 341.2

23 N1 c/15

N4 ø6.3 C=79 7 38 98

1 N29 ø10.0 C=108 (2c)

12 375 12

2 N30 ø10.0 C=394 (1c)

30 14 24 8

23 N1 ø5.0 C=79

Technical drawing of a rectangular plate. The main drawing shows a plate with overall dimensions 329 (width) x 40 (height). The material is 2 N11 ø8.0 C=369 (1c). The plate has a central horizontal slot with a width of 14 x 40 and a depth of 307.1. The slot is labeled 15 N2 ø/21. The plate is supported by a base labeled VB2. The drawing includes a section line A-A and a detail view of the slot. The detail view shows a rectangular slot with a width of 14 and a height of 40. The material for the slot is 1 N5 ø6.3 C=67. The detail view also shows a dimension of 32 and a note 15 N2 ø5.0 C=96.

VB5
ESC 1:50

(1c) 2 N13 ø8.0 C=347

332

17

0

A

P5

20

304.1

14 x 30

304.1

21 N11 ø15

332

10

2 N12 ø8.0 C=340 (1c)

SEÇÃO A-A
ESC 1:25

30

14

24

8

21 N11 ø5.0 C=70

[illegible]

VB7
ESC 1:50

2 N3 ø5.0 C=123

0 A

P10 A P11

101 14 x 30 101 14

7 N1 c/15

2 N19 ø8.0 C=123

SEÇÃO A-A
ESC 1:25

30 14

24 8

7 N1 ø5.0 C=76

(1c)

VB8
ESC 1:50

2 N17 ø8.0 C=1200 (1c)

1 N22 ø8.0 C=1142 (2c)

1 N23 ø8.0 C=163 (2c)

2 N24 ø8.0 C=373 (1c)

0

P15

P13

P10

P8

P4

40

207.4

14 x 30

207.4

14 N1 c/15

40

300.9

14 x 30

300.9

21 N1 c/15

30

260.7

14 x 30

260.7

18 N1 c/15

30

260.7

14 x 30

260.7

18 N1 c/15

40

311.8

14 x 30

297.7

20 N1 c/15

34

2 N20 ø8.0 C=1093 (1c)

2 N15 ø8.0 C=154 (1c)

2 N21 ø8.0 C=356 (1c)

358

43

43

Γ A

VB1

50

14

24

8

91 N1 ø5.0 C=76

SEÇÃO A-A
ESC 1:25

ACO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	265	76	20140
	2	5.0	42	96	4032
	3	5.0	2	123	243
CA50	4	6.3	8	79	632
	5	6.3	1	67	67
	6	8.0	2	136	272
	7	8.0	1	91	95
	8	8.0	2	486	972
	10	8.0	2	345	690
	10	8.0	2	369	738
	12	8.0	2	340	680
	13	8.0	2	347	694
	14	8.0	2	1088	2176
	15	8.0	4	154	616
	16	8.0	2	339	678
	17	8.0	4	1200	4800
	18	8.0	2	335	670
	19	8.0	2	123	246
20	8.0	2	1093	2186	
21	8.0	2	356	712	
22	8.0	1	1142	1142	
23	8.0	1	163	163	
24	8.0	2	373	746	
25	10.0	2	304	608	
26	10.0	1	374	374	
27	10.0	1	573	573	
28	10.0	2	580	1160	
29	10.0	1	108	108	
30	10.0	2	394	788	
31	12.5	2	653	1306	
32	12.5	1	190	190	
33	12.5	2	621	1242	
34	12.5	2	435	870	

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	7	1.9
	8.0	192.3	83.5
	10.0	36.2	24.5
	12.5	36.1	38.2
CA60	5.0	244.2	41.4
PESO TOTAL			
CA50	148.1		
CA60	41.4		

Vol. de concreto total (C-30) = 2.39 m³
Área de forma total = 41.65 m²

P12	P13	P14			
P15	P16	S3			
3xS4	S5	S6			
3xS7	S8	S10			
S11	S12	2xS13			
ACO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	65	76	4840
	2	5.0	62	23	1196
	3	5.0	126	108	13608
	4	5.0	126	29	3654
CA50	5	5.0	13	88	1144
	6	6.3	13	144	1872
	7	6.3	10	139	1390
	8	6.3	12	134	1608
	9	6.3	24	109	2616
	10	6.3	9	129	1161
	11	6.3	10	90	900
	12	6.3	8	119	952
	13	6.3	18	89	1602
	14	8.0	33	153	5049
	15	8.0	17	123	1476
	16	8.0	9	118	1062
	17	8.0	24	83	1992
	18	8.0	21	108	2268
	19	8.0	10	118	1180
	20	8.0	10	103	1030
	21	8.0	9	123	1107
	22	10.0	14	VAR	VAR
	23	10.0	38	VAR	VAR
	24	10.0	38	VAR	VAR
	25	10.0	6	VAR	VAR
	26	10.0	6	VAR	VAR
	27	10.0	10	147	1470
	28	10.0	9	157	1413
	29	10.0	10	VAR	VAR
	30	10.0	16	VAR	VAR

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	122	32.8
	8.0	151.7	65.8
	10.0	282.5	191.6
CA60	5.0	245.5	41.6
PESO TOTAL			

CA50	290.2
CA60	41.6

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	9	88	792
	2	8.0	8	113	904

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	17	7.4
PESO TOTAL			
CA50	7.4		

Vol. de concreto total (C-25) = 0.18 m³
Área de forma total = 0.8 m²

ANOTAÇÕES


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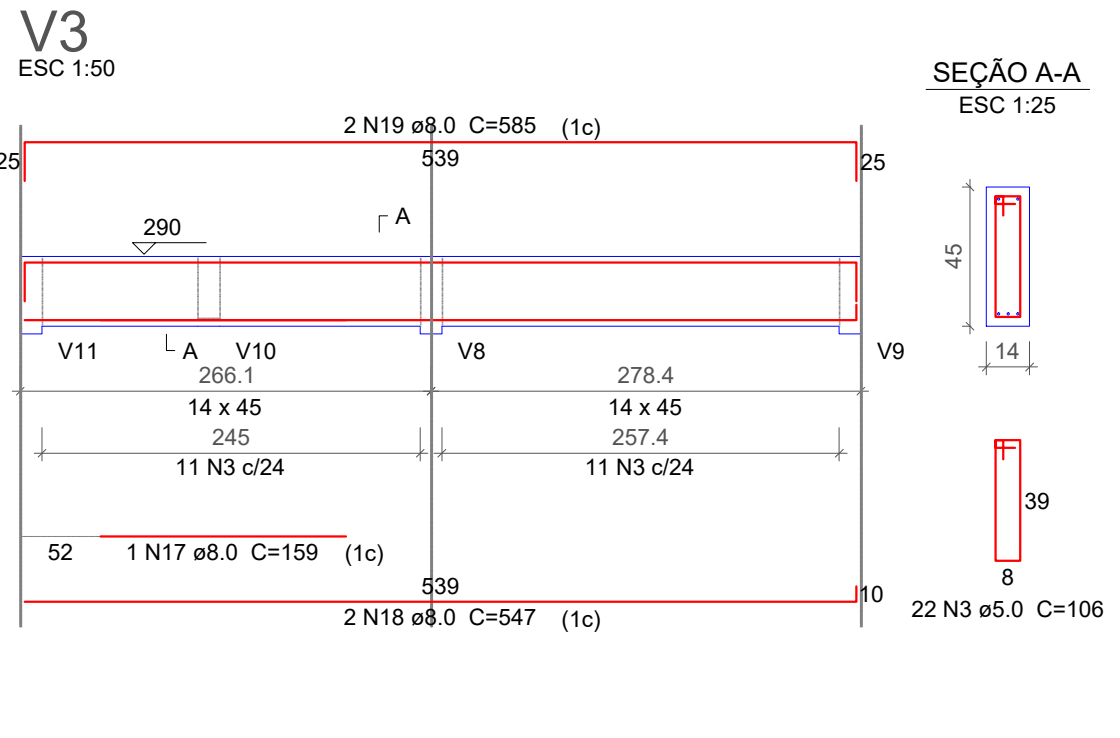
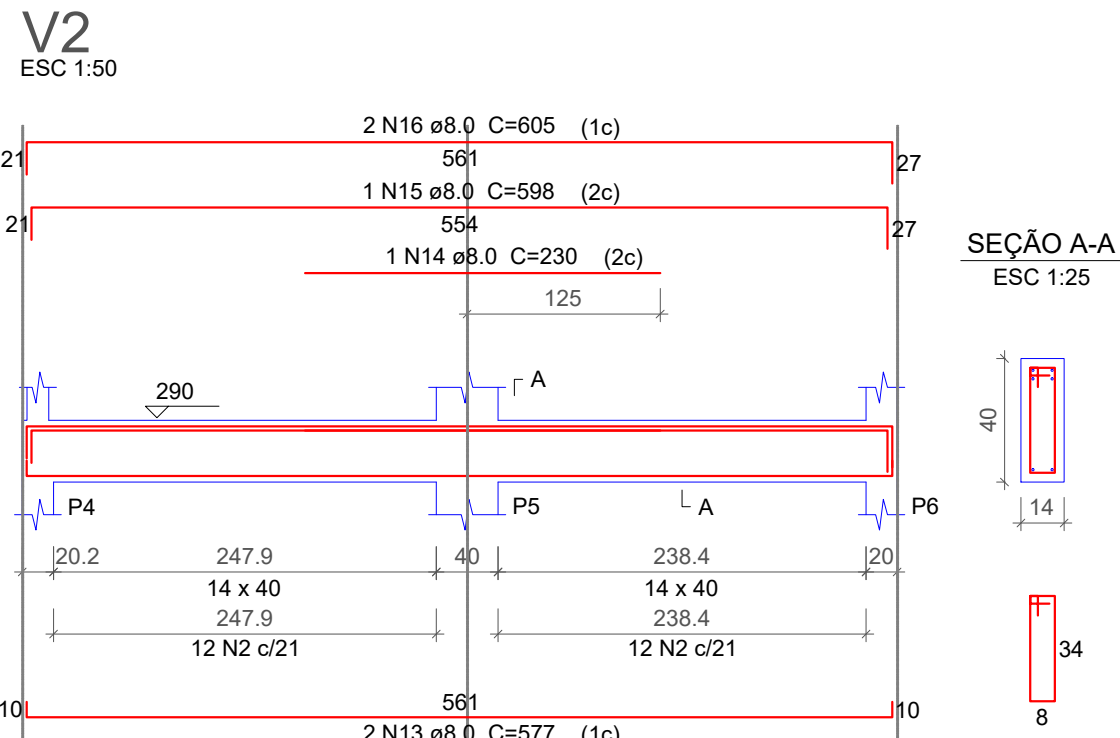
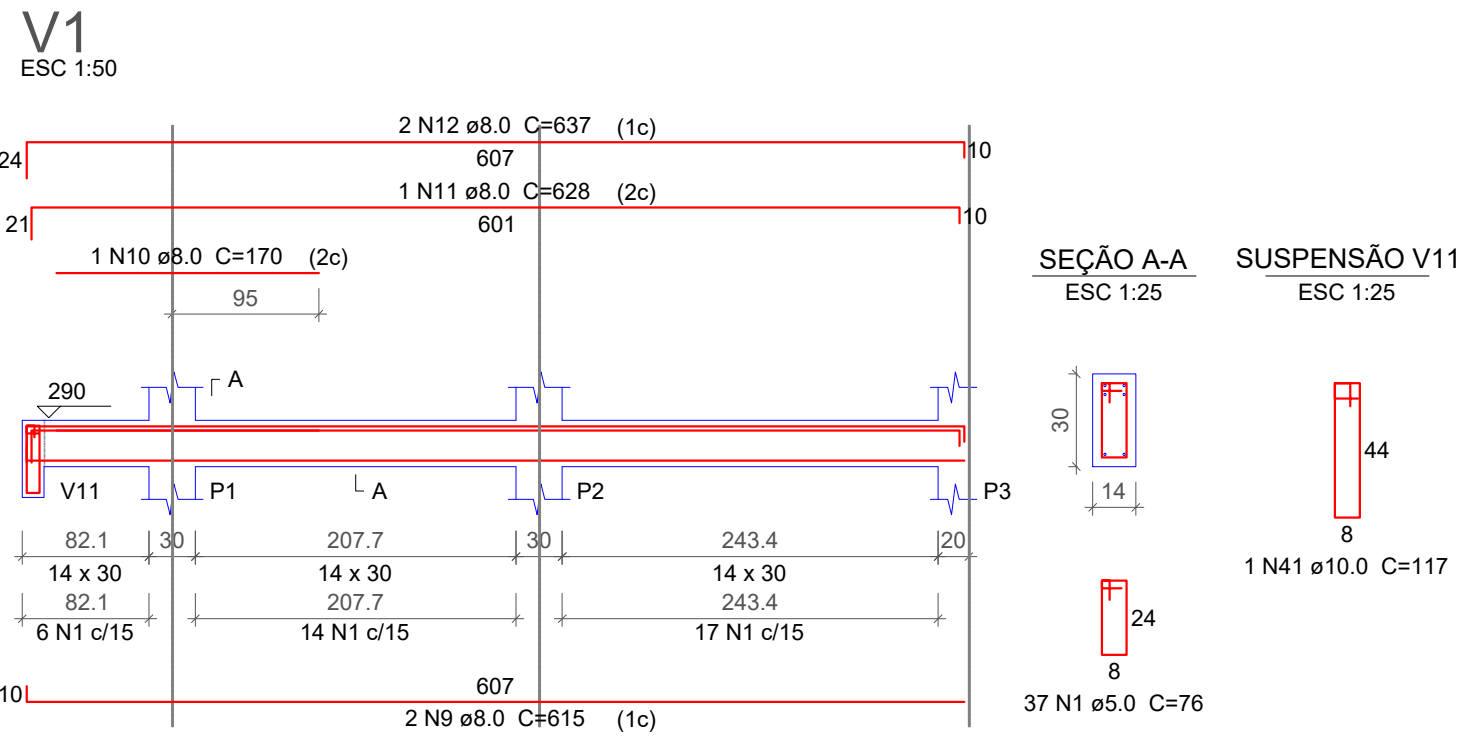
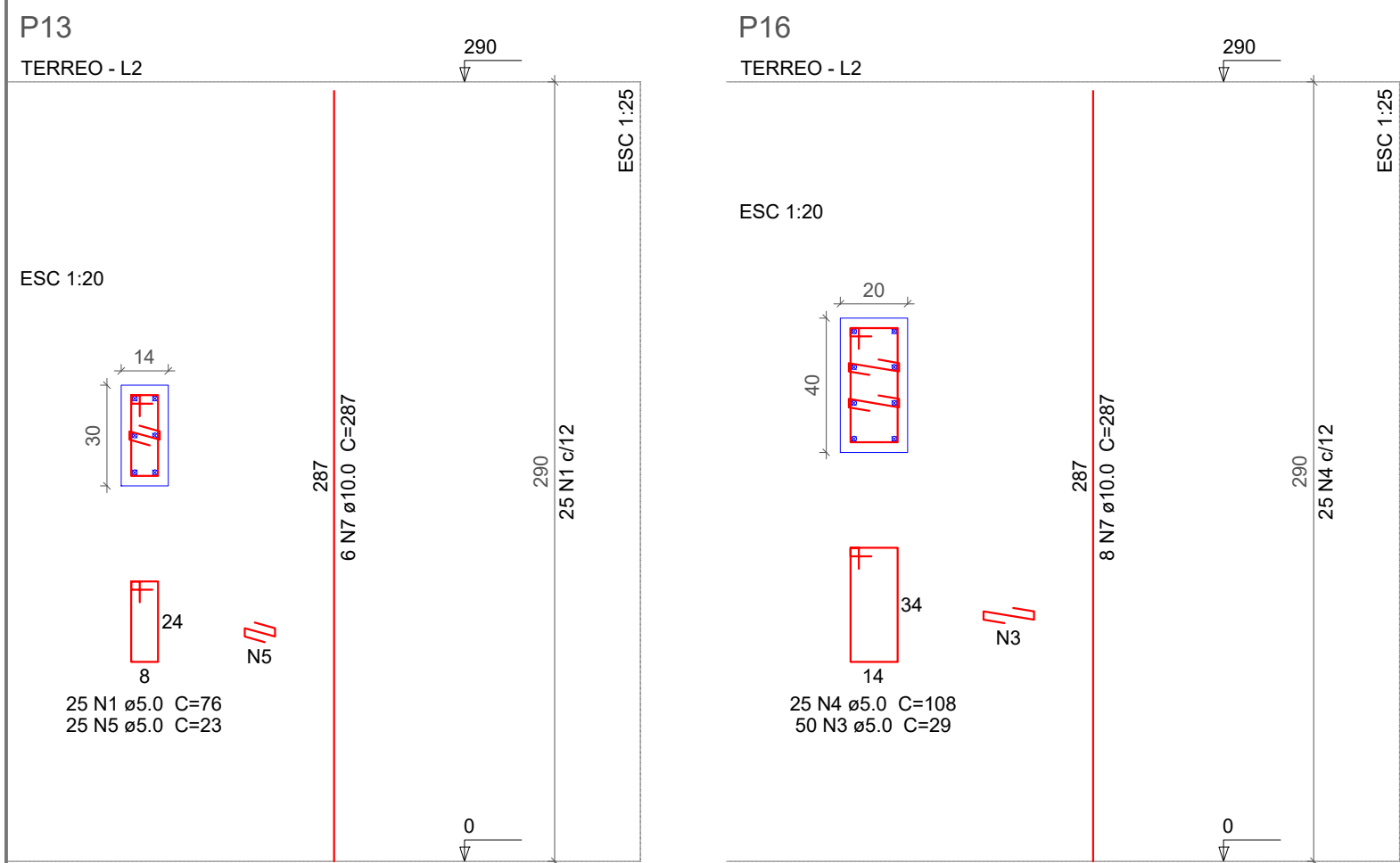
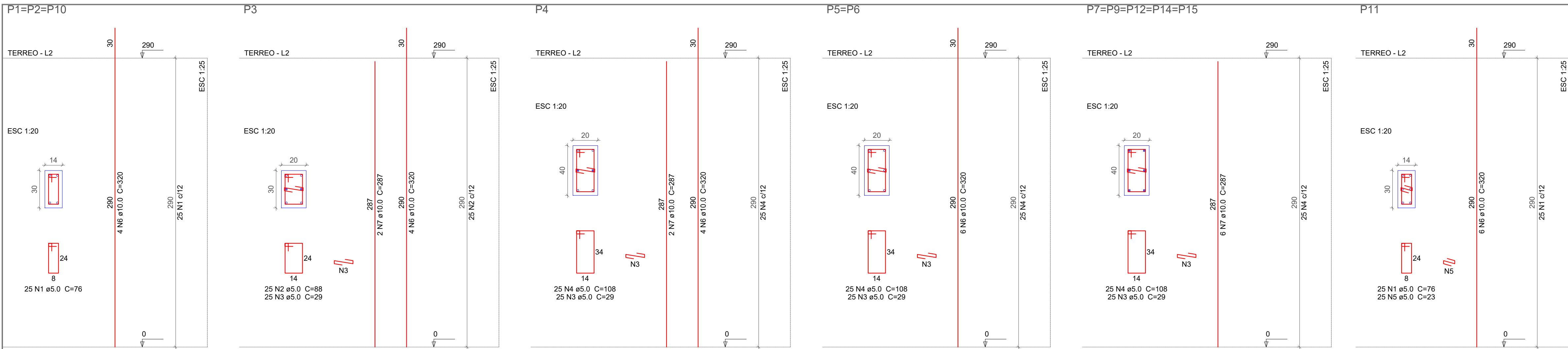
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 Bairro São Silvanço, Colônia / ES, CEP: 29.703-162

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:		REFORMA E AMPLIAÇÃO CMRB			
J. C. VINTER JUNIOR CREA 030447/D-ES		LOGRADOURO: AV. 14 DE SETEMBRO, nº 1105			
AUTOR: WIDISLEY BARLOESIUS PORTO		CEP: 29920-000	BAIRRO: SÃO SEBASTIÃO		
DESENHISTA: WIDISLEY BARLOESIUS PORTO		CIDADE: RIO BANANAL		ESTADO: ESPÍRITO SANTO	
PROPRIETÁRIO: JUDICI GERALDO D'ALCUMUNE BOLSONI (PRESIDENTE DA CÂMARA) CÂMARA MUNICIPAL DE RIO BANANAL CNPJ: 01.975.292/0001-40		OBJETO: DETALHE S14 E P14, PLANTA DE FORMA BALDRAME, DETALHAMENTO DAS VIGAS BALDRAMES			
ÁREA: INDICADO NO QUADRO DE ÁREAS	ESCALA: INDICADA	DATA: 09/07/2018	FOLHA: A1	REVISÃO: 00	PRANCHA: 02/ 05



Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	125	76	9500
	2	5.0	25	88	2200
	3	5.0	275	29	7975
	4	5.0	225	108	24300
	5	5.0	50	23	1150
CA50	6	10.0	38	320	12160
	7	10.0	48	287	13776

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	259.4	175.9
CA60	5.0	451.3	76.5
PESO TOTAL			
CA50	175.9		
CA60	76.5		

Vol. de concreto total (C-30) = 2.87 m³
Área de forma total = 46.98 m²

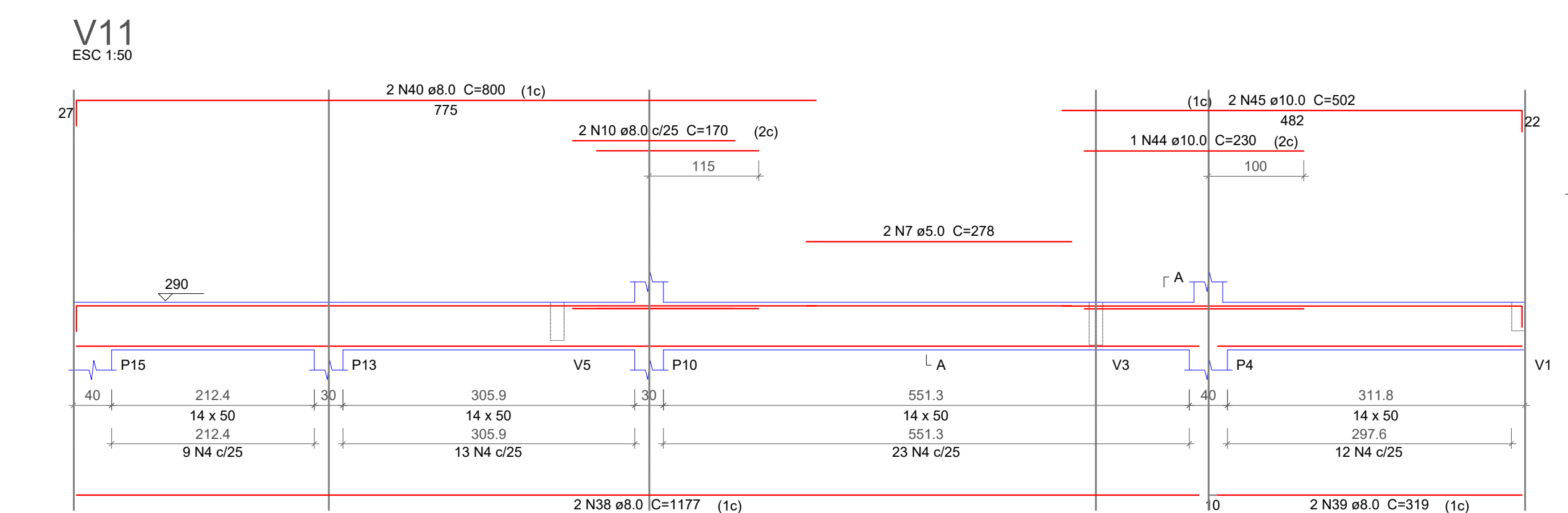
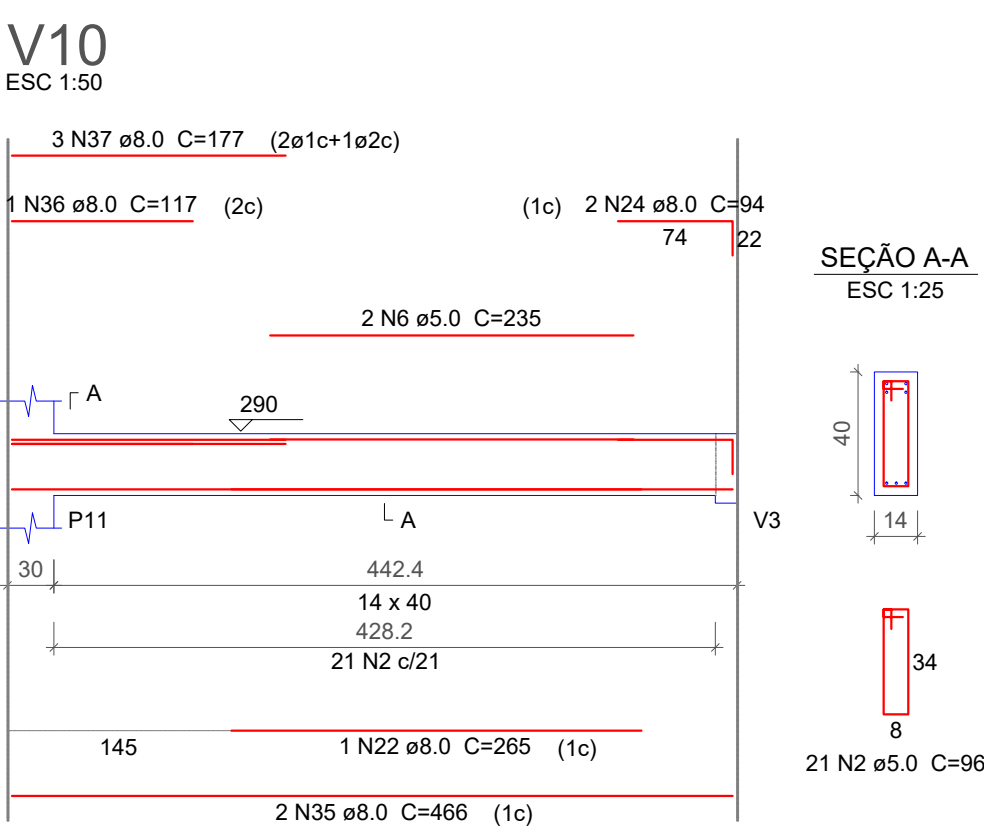
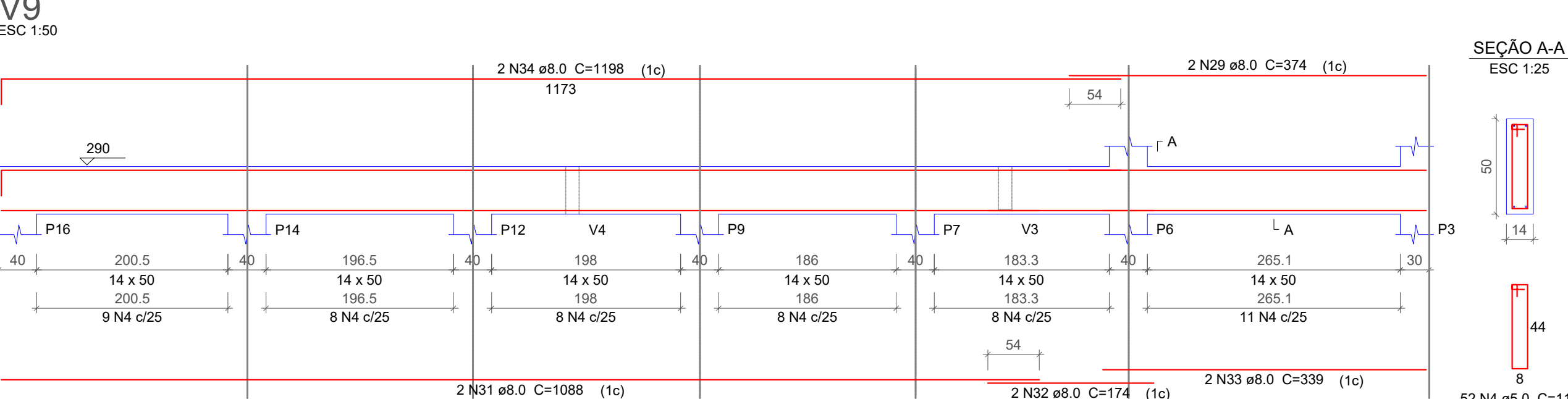
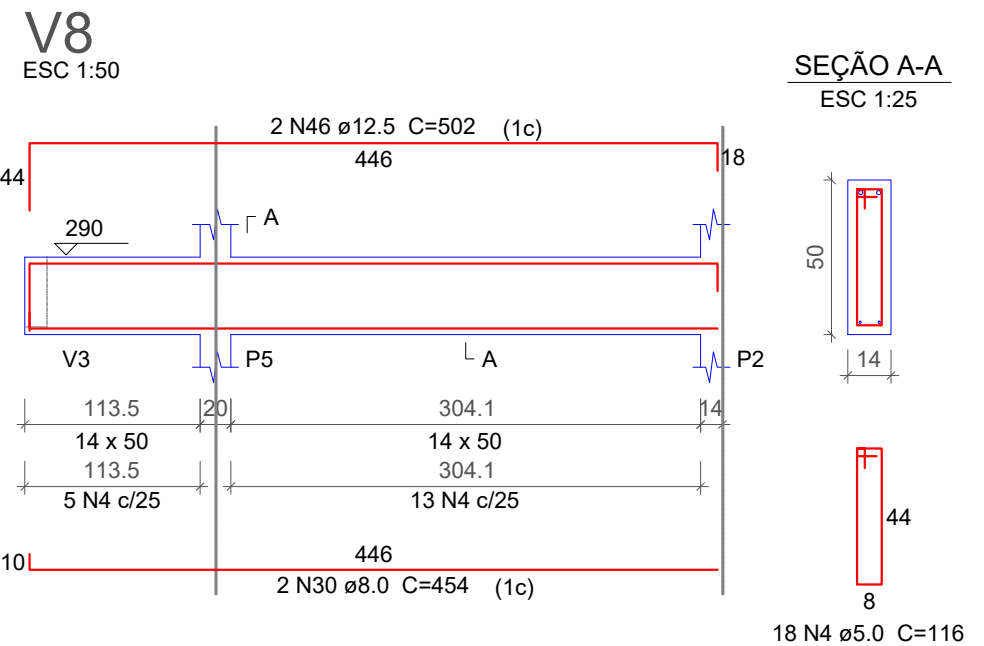
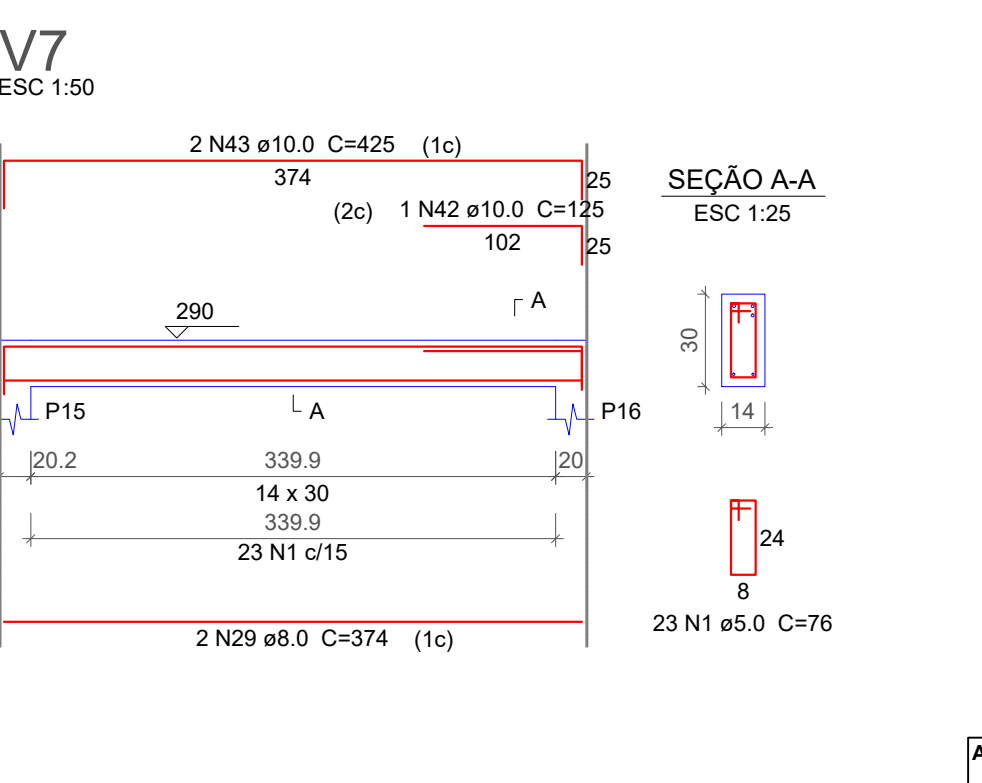
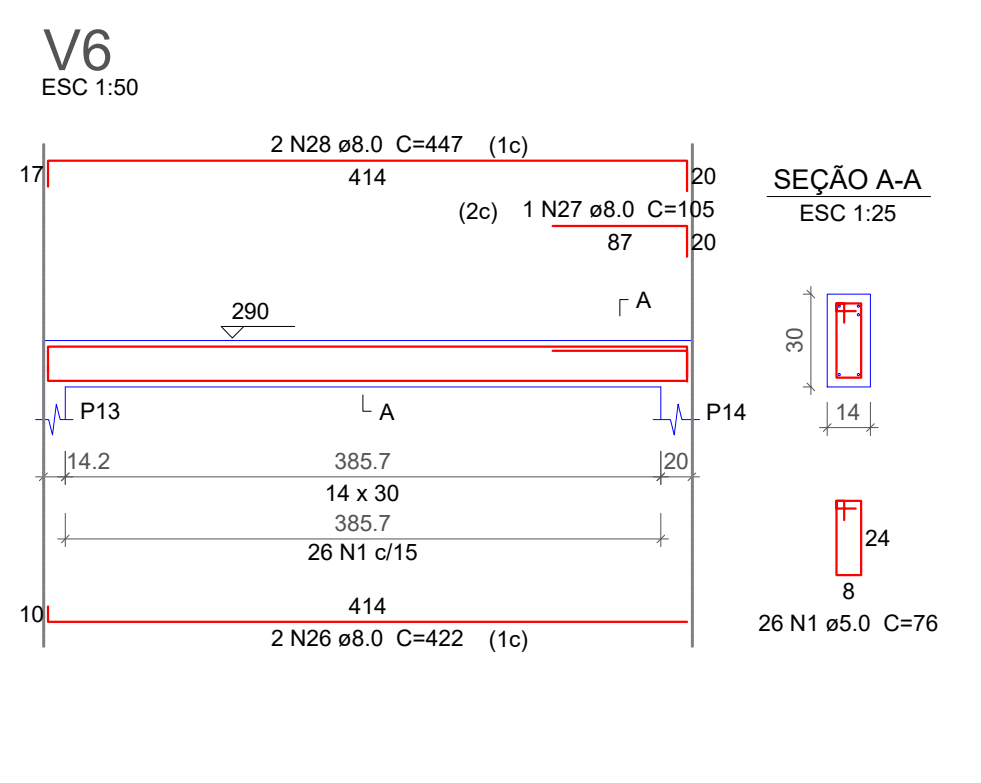
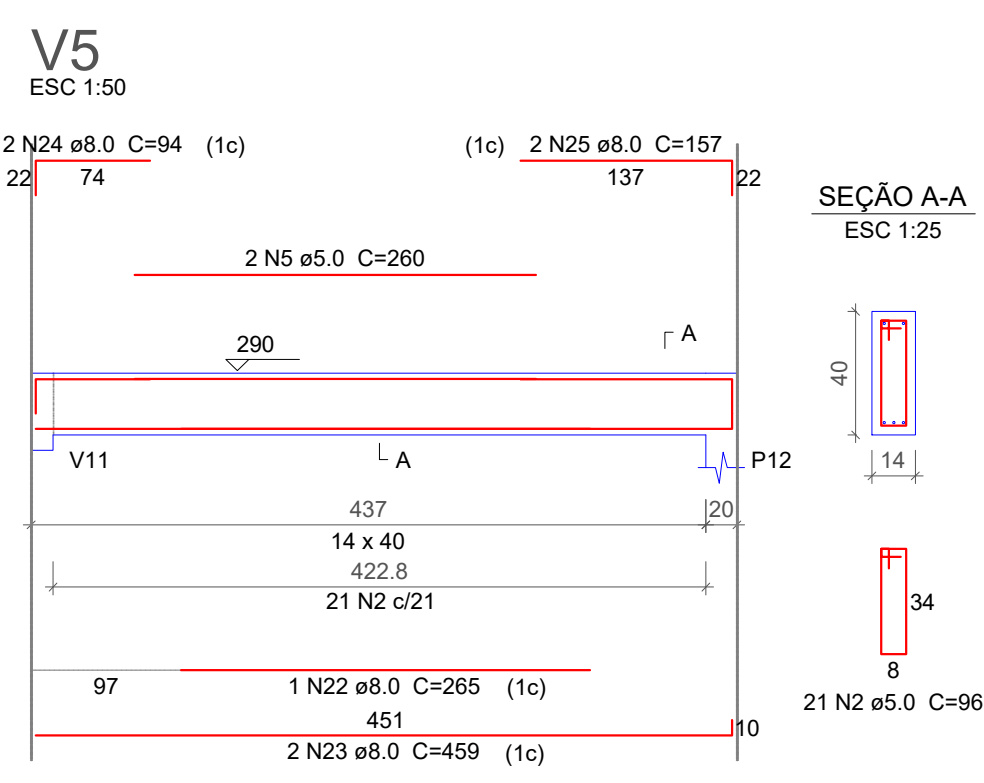
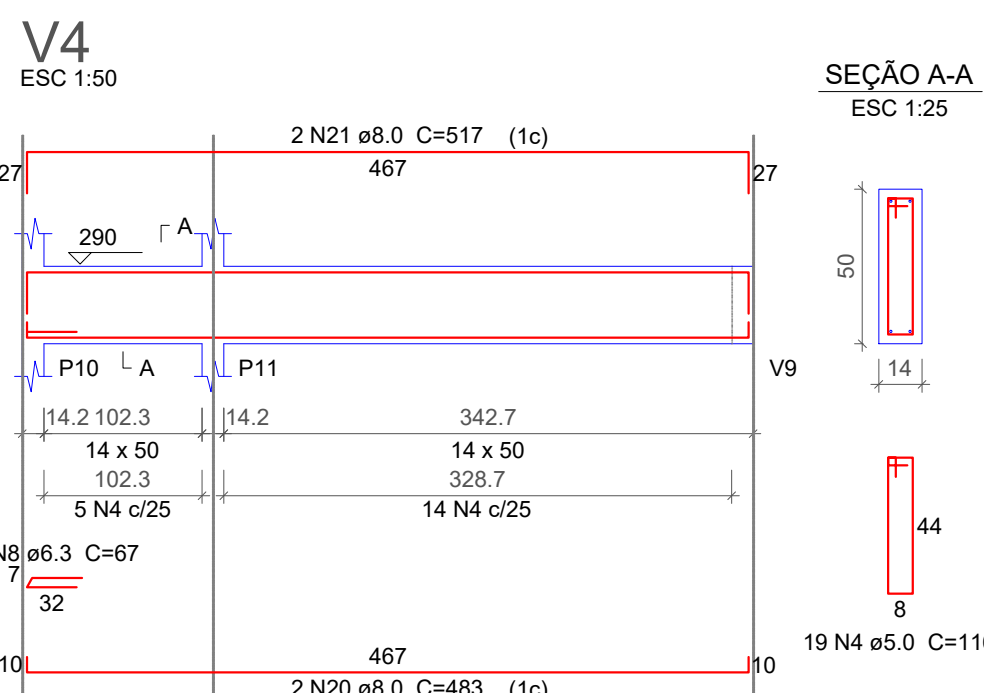
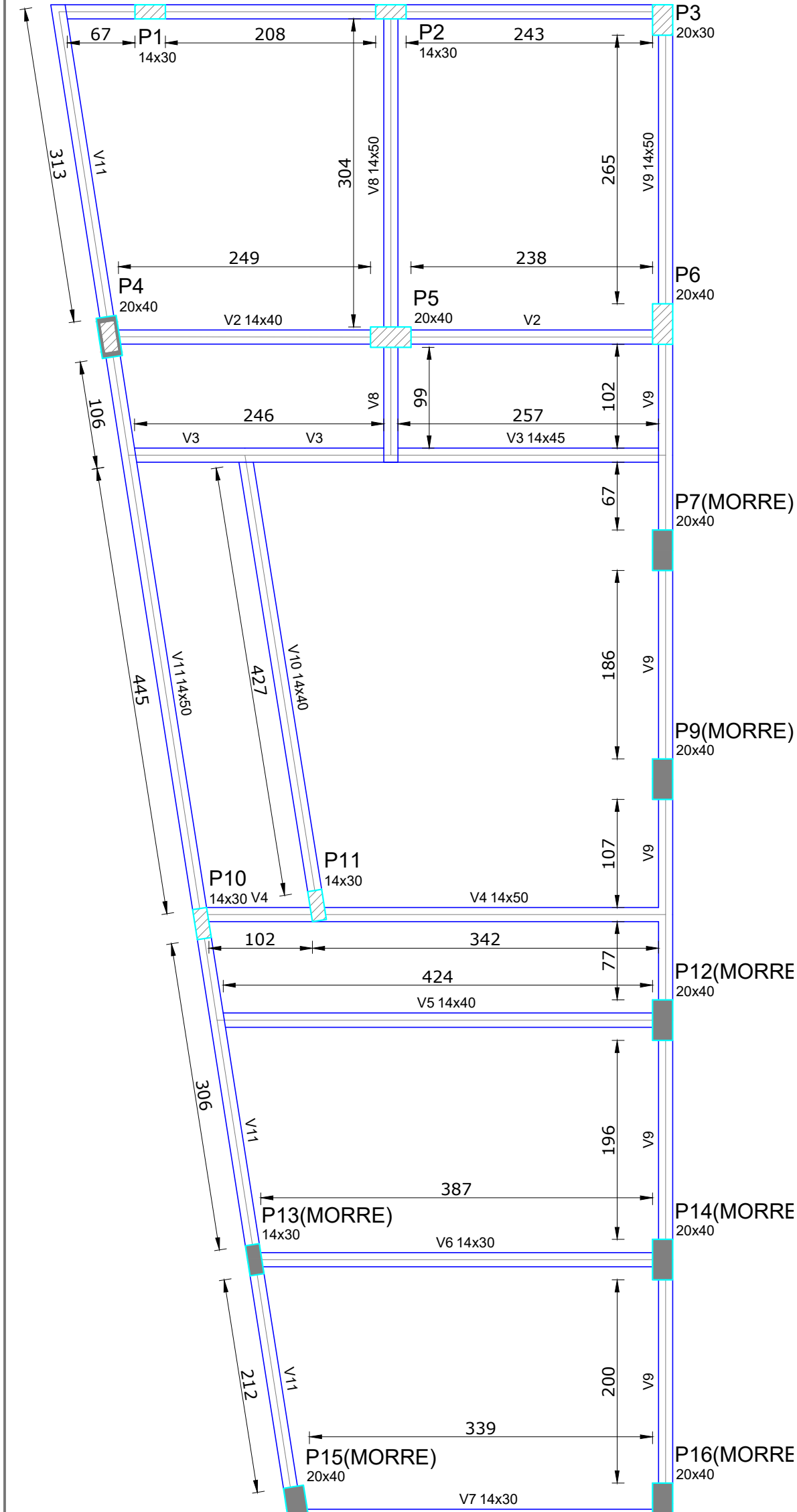
Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	86	76	6536
	2	5.0	66	96	6336
	3	5.0	22	106	2332
	4	5.0	146	116	16936
	5	5.0	2	280	520
	6	5.0	2	235	470
	7	5.0	2	278	556
CA50	8	6.3	1	67	67
	9	8.0	2	615	1230
	10	8.0	3	170	510
	11	8.0	1	628	628
	12	8.0	2	637	1274
	13	8.0	2	577	1154
	14	8.0	1	230	230
	15	8.0	1	598	598
	16	8.0	2	605	1210
	17	8.0	1	159	159
	18	8.0	2	547	1094
	19	8.0	2	585	1170
	20	8.0	2	483	966
	21	8.0	2	517	1034
	22	8.0	2	265	530
	23	8.0	2	459	918
	24	8.0	4	94	376
	25	8.0	2	157	314
	26	8.0	2	422	844
	27	8.0	1	105	105
	28	8.0	2	447	894
	29	8.0	4	374	1496
	30	8.0	2	454	908
	31	8.0	2	1088	2176
	32	8.0	2	174	348
	33	8.0	2	339	678
	34	8.0	2	1198	2396
	35	8.0	2	466	932
	36	8.0	1	117	117
	37	8.0	3	177	531
	38	8.0	2	1177	2354
	39	8.0	2	319	638
	40	8.0	2	800	1600
	41	10.0	1	117	117
	42	10.0	1	125	125
	43	10.0	2	425	850
	44	10.0	1	230	230
	45	10.0	2	502	1004
	46	12.5	2	502	1004

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	0.7	0.2
	8.0	294.2	127.7
	10.0	23.3	15.8
	12.5	10.1	10.6
CA60	5.0	336.9	57.1
PESO TOTAL			
CA50	154.3		
CA60	57.1		

Vol. de concreto total (C-30) = 4.54 m³
Área de forma total = 75.16 m²



ANOTAÇÕES:

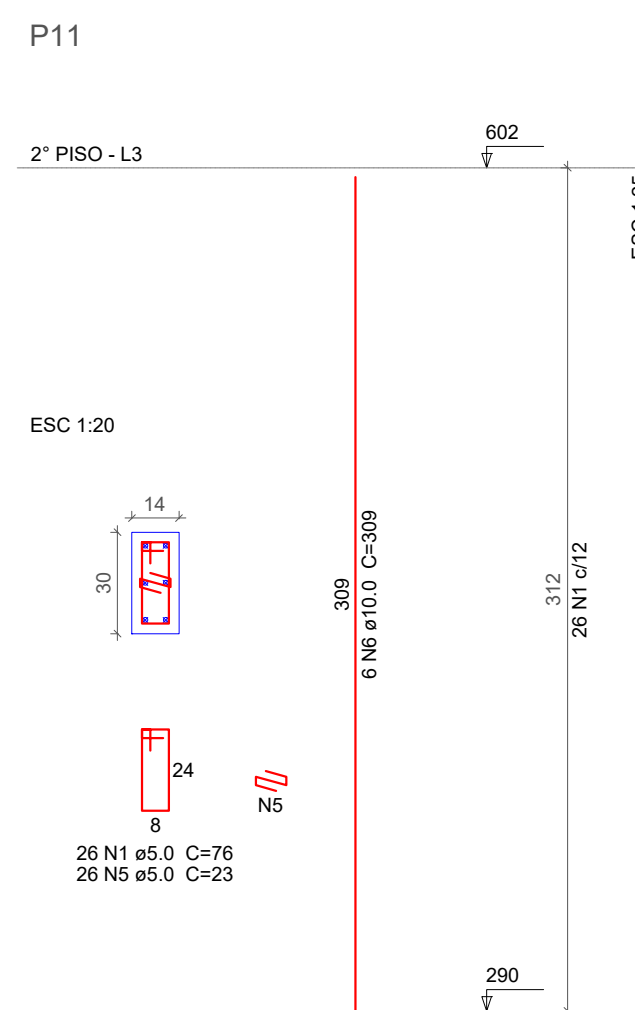
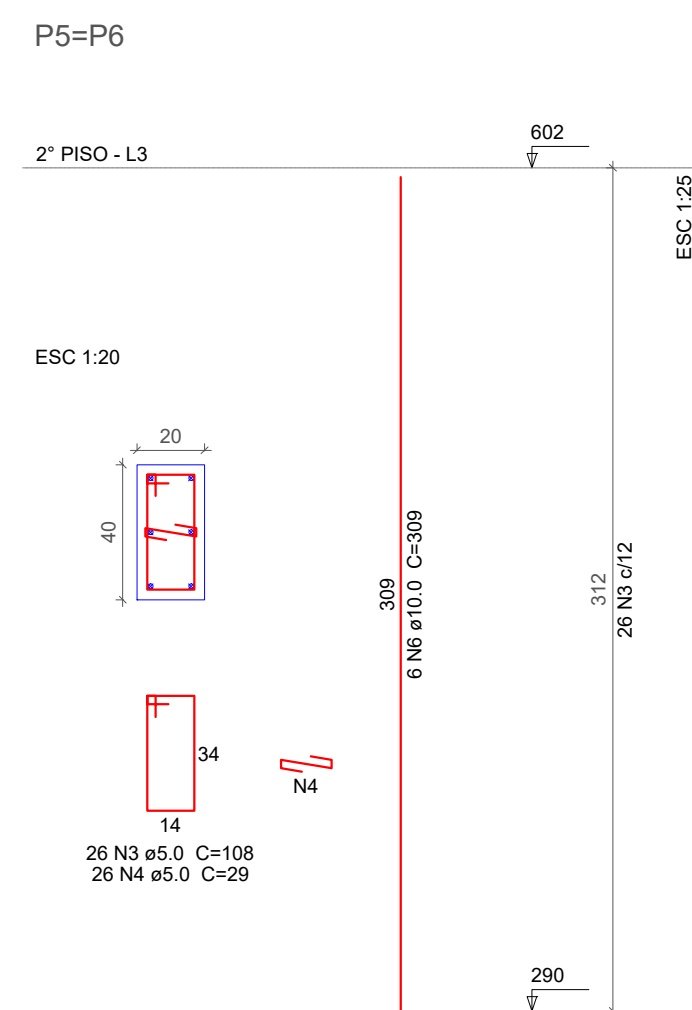
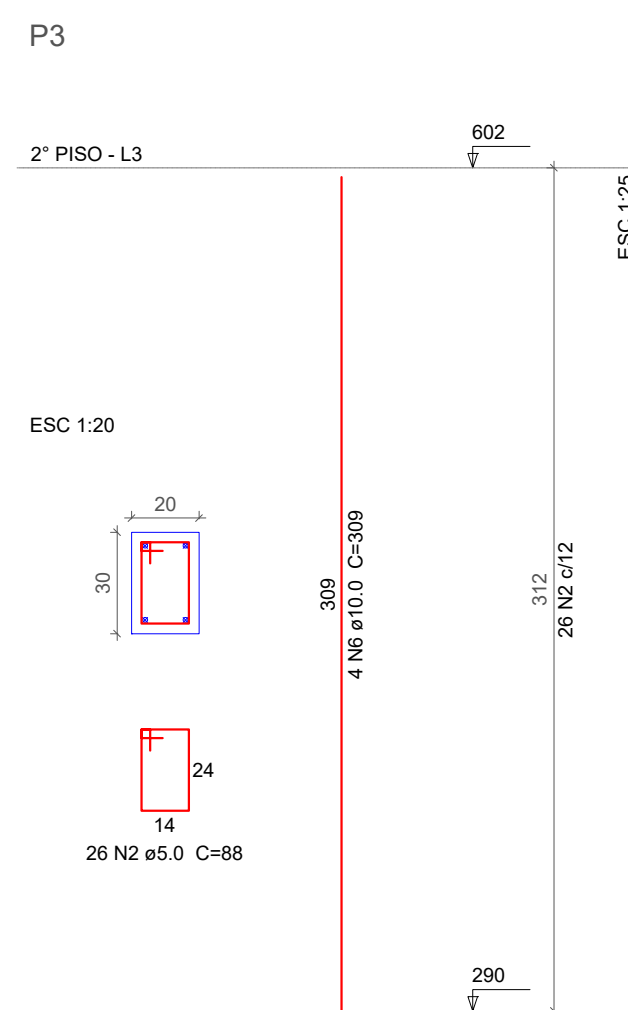
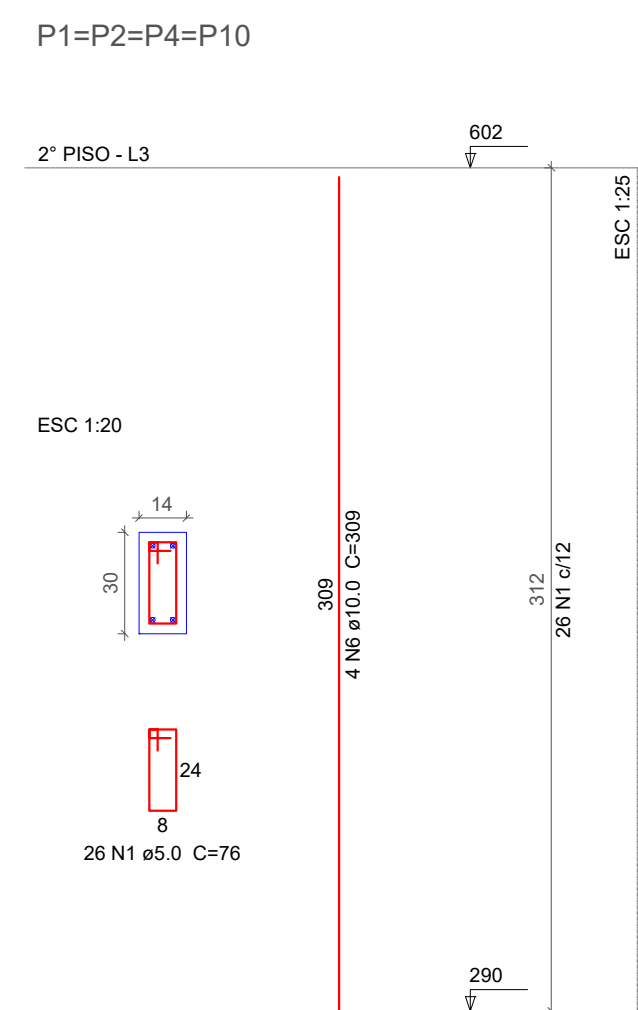
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PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:		REFORMA E AMPLIAÇÃO CMRB	
J. C. VINTER JUNIOR CREA 030447/D-ES		LOGRADOURO: AV. 14 DE SETEMBRO, nº 1105	
AUTOR: WIDISLEY BARLOESIU PORTO	CEP: 29920-000	BAIRRO: SÃO SEBASTIÃO	
DESENHISTA: WIDISLEY BARLOESIU PORTO	CIDADE: RIO BANANAL	ESTADO: ESPÍRITO SANTO	
PROPRIETÁRIO: JUDACI GERALDO DALCUMENE BOLSONI (PRESIDENTE DA CÂMARA)		OBJETO: DETALHAMENTO DOS PILARES DO 1º PAVIMENTO, PLANTA DE FORMA DAS VIGAS DO 1º PAVIMENTO, DETALHAMENTO DAS VIGAS.	
CÂMARA MUNICIPAL DE RIO BANANAL CNPJ: 01.975.292/0001-40			
ÁREA: INDICADO NO QUADRO DE ÁREAS	ESCALA: INDICADA	DATA: 09/07/2018	FOLHA: A1
		REVISÃO: 00	PRANCHA: 03/05
ARQUIVO: 0_Novo-Divisão_ORIENTAMENTO_02-OUTUBRO-2018_ELABORACAO E COMPLETA AMPLIACAO/REFORMA CÂMARA MUNICIPAL DO BANANAL/PROPOSTAS E CONTRATOS/CL-01-04/PROJETO ESTRUTURAL			



Relação do aço

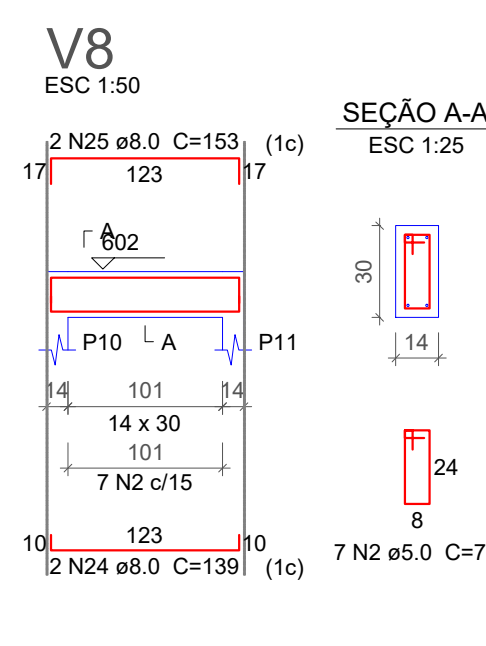
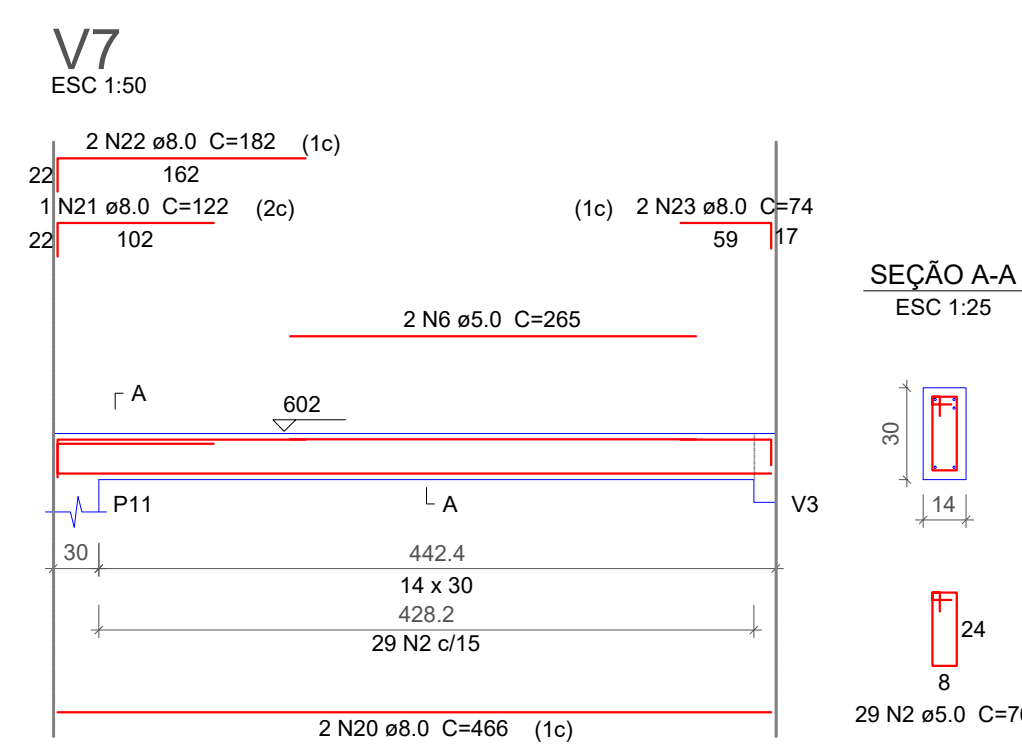
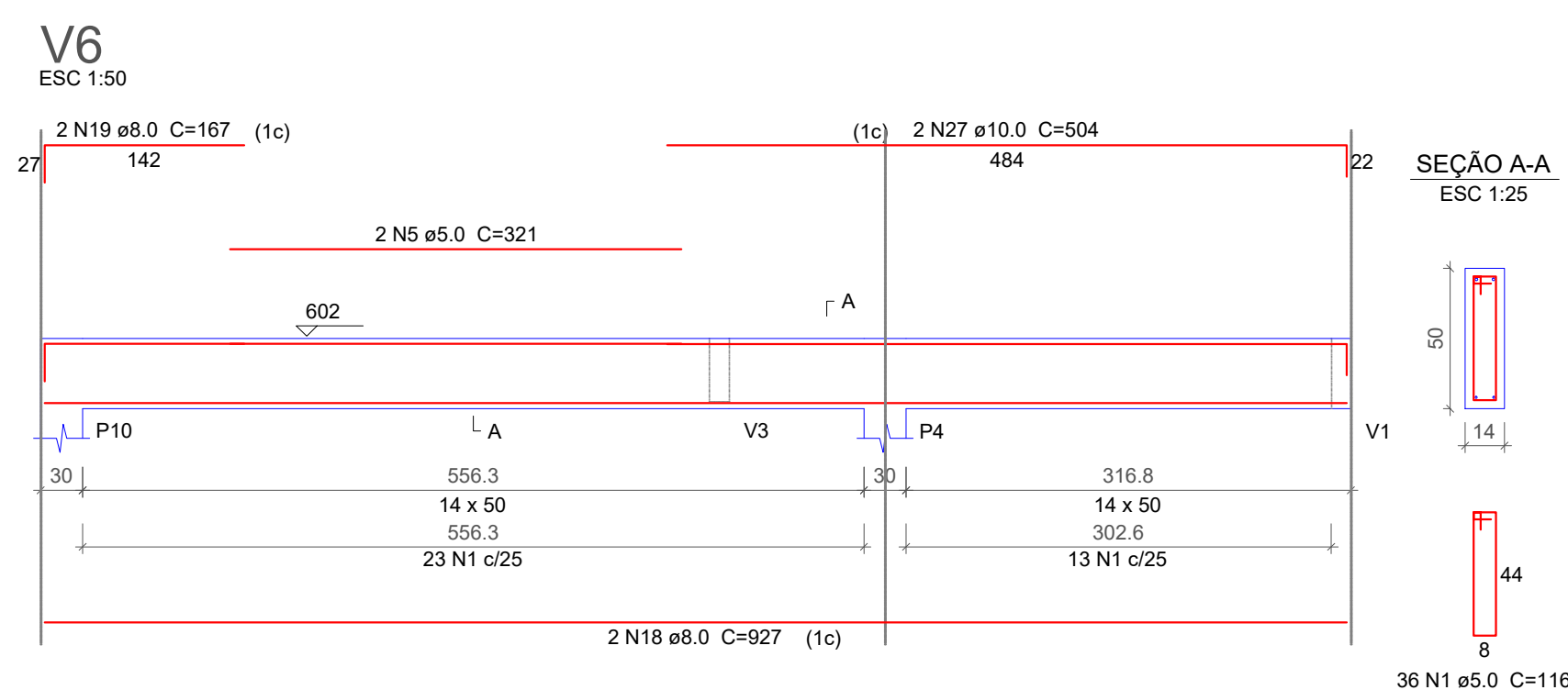
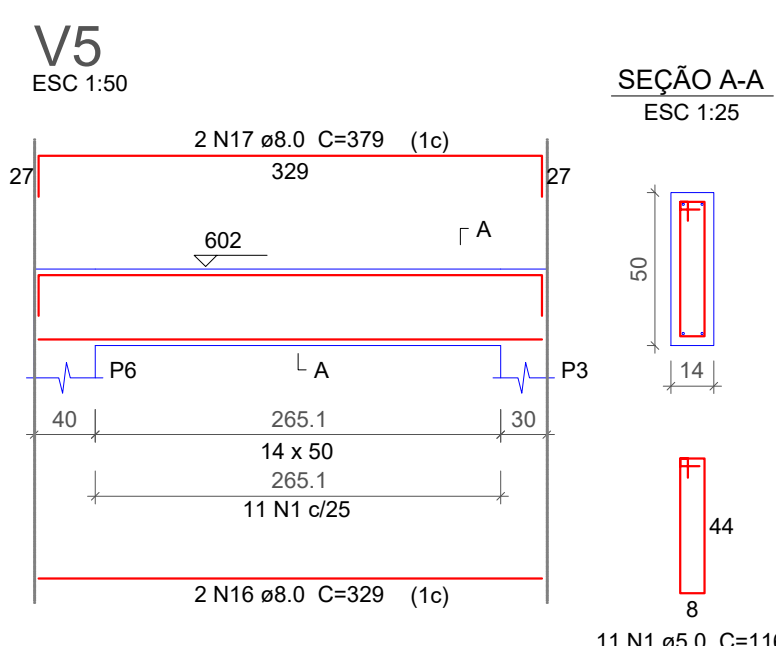
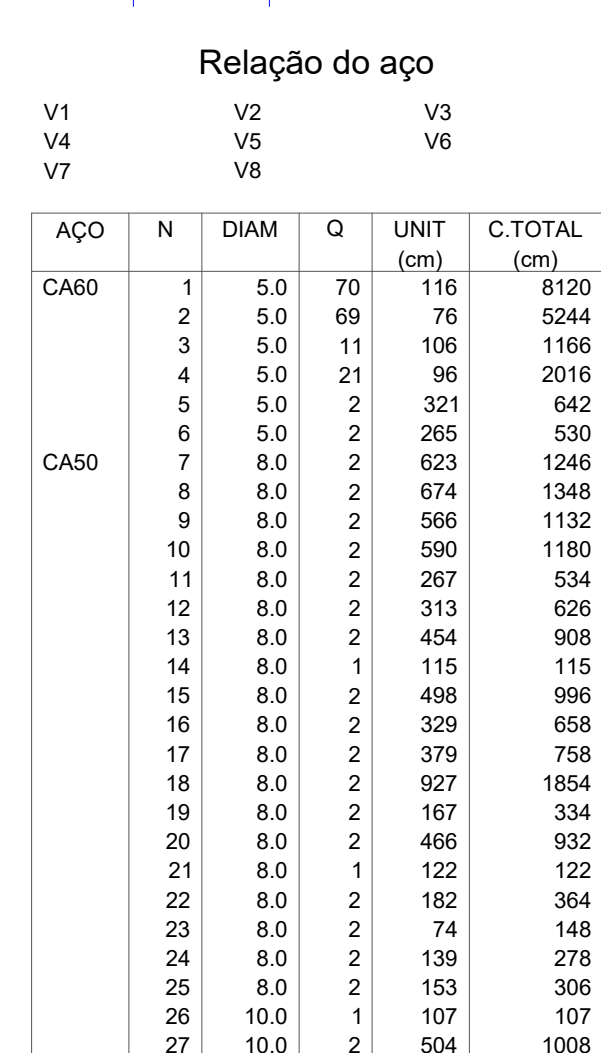
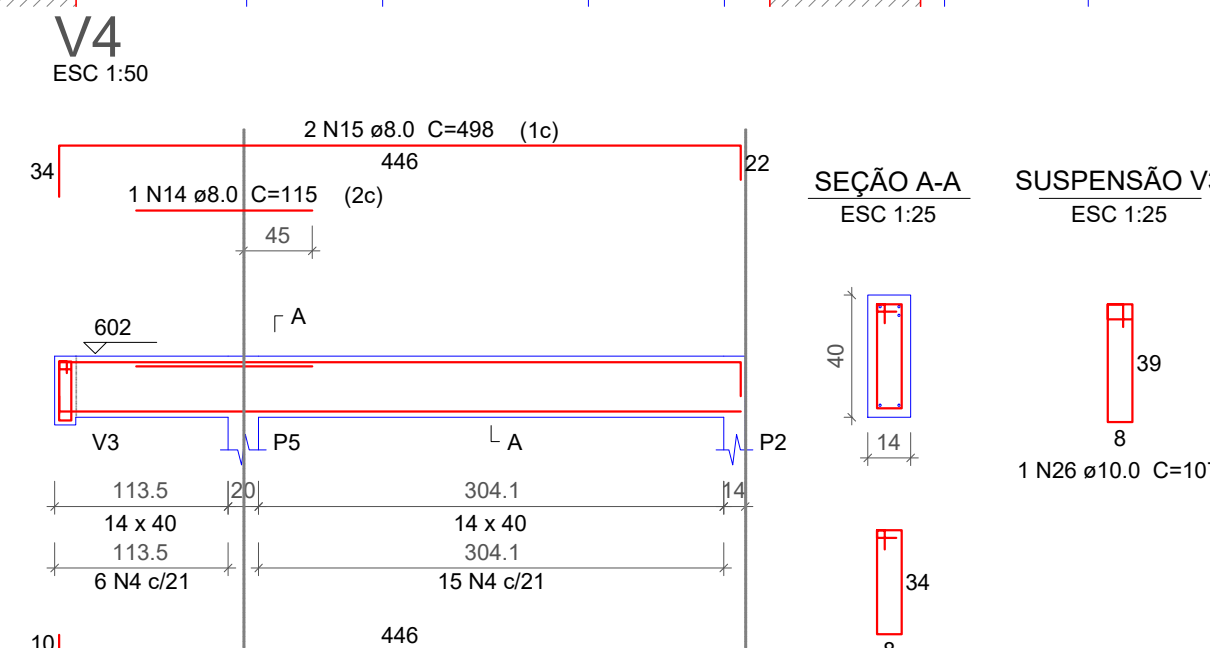
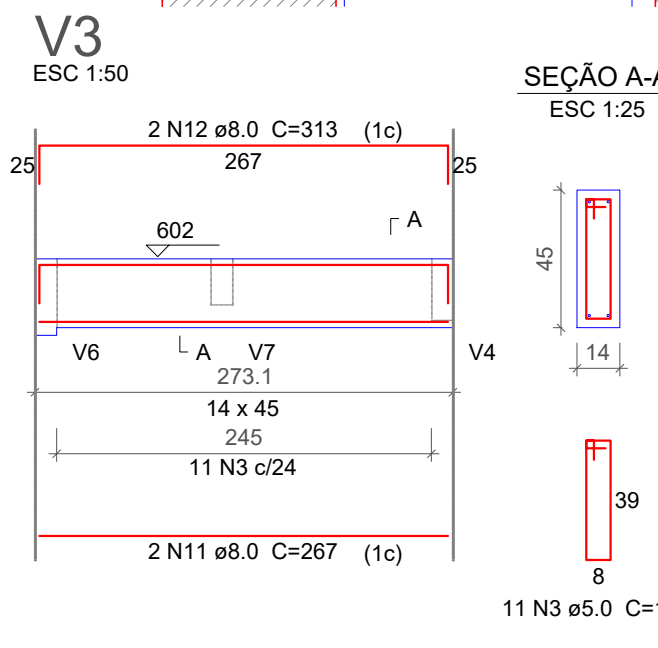
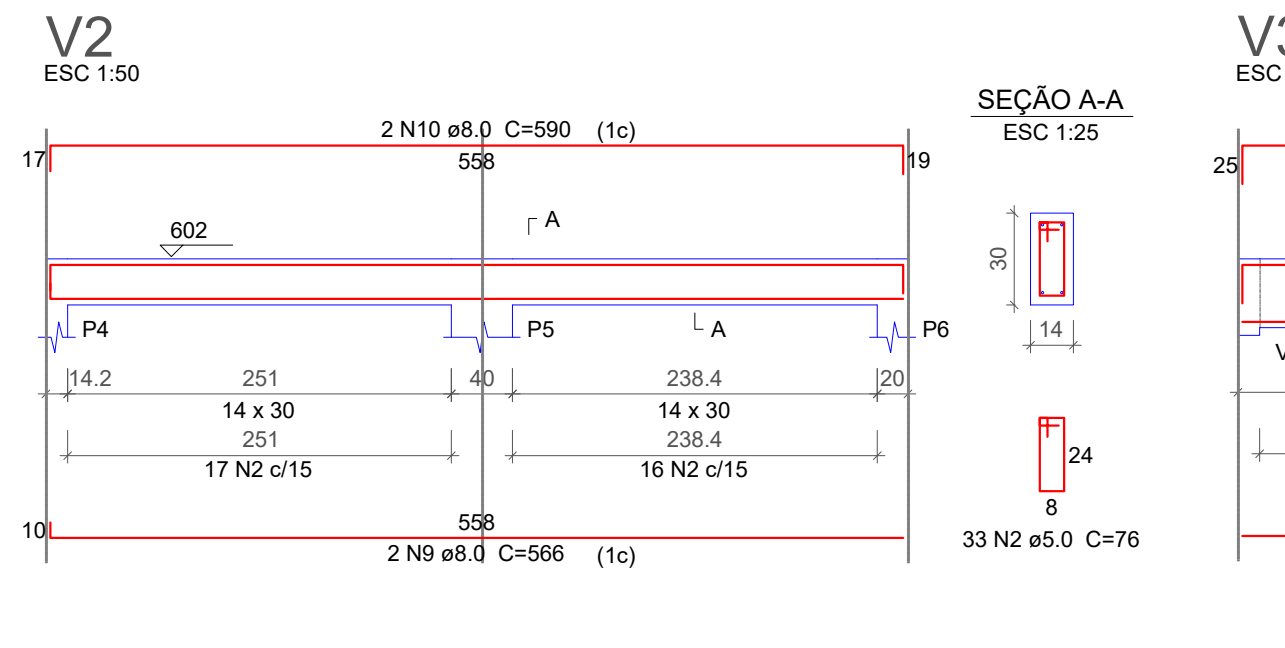
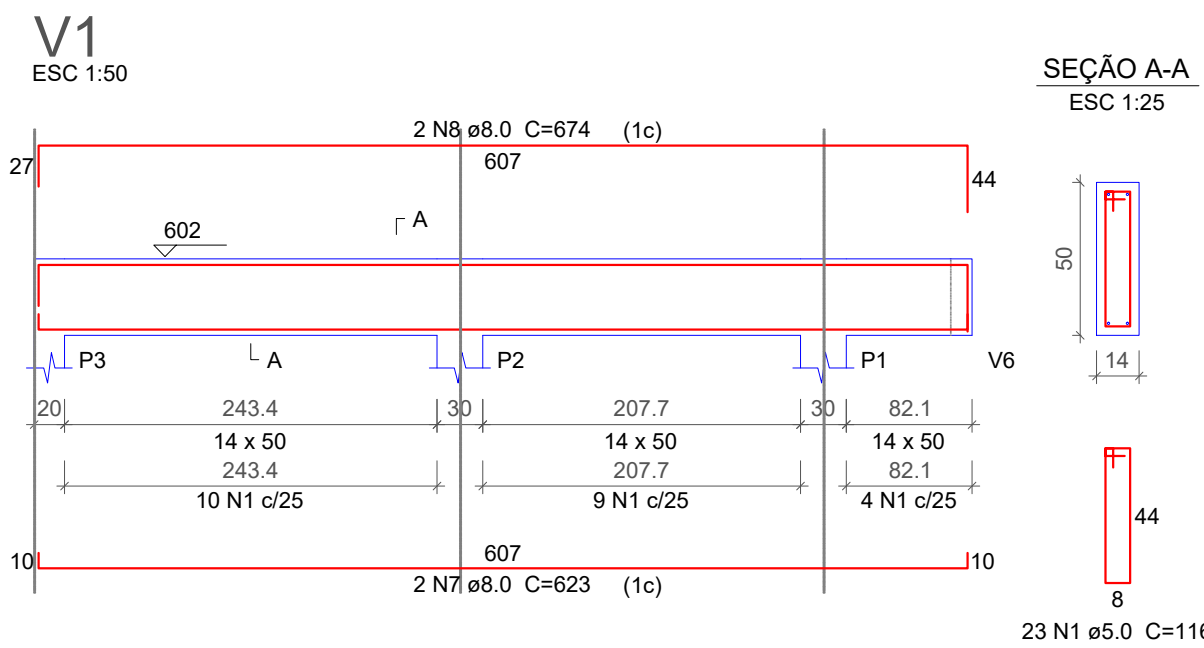
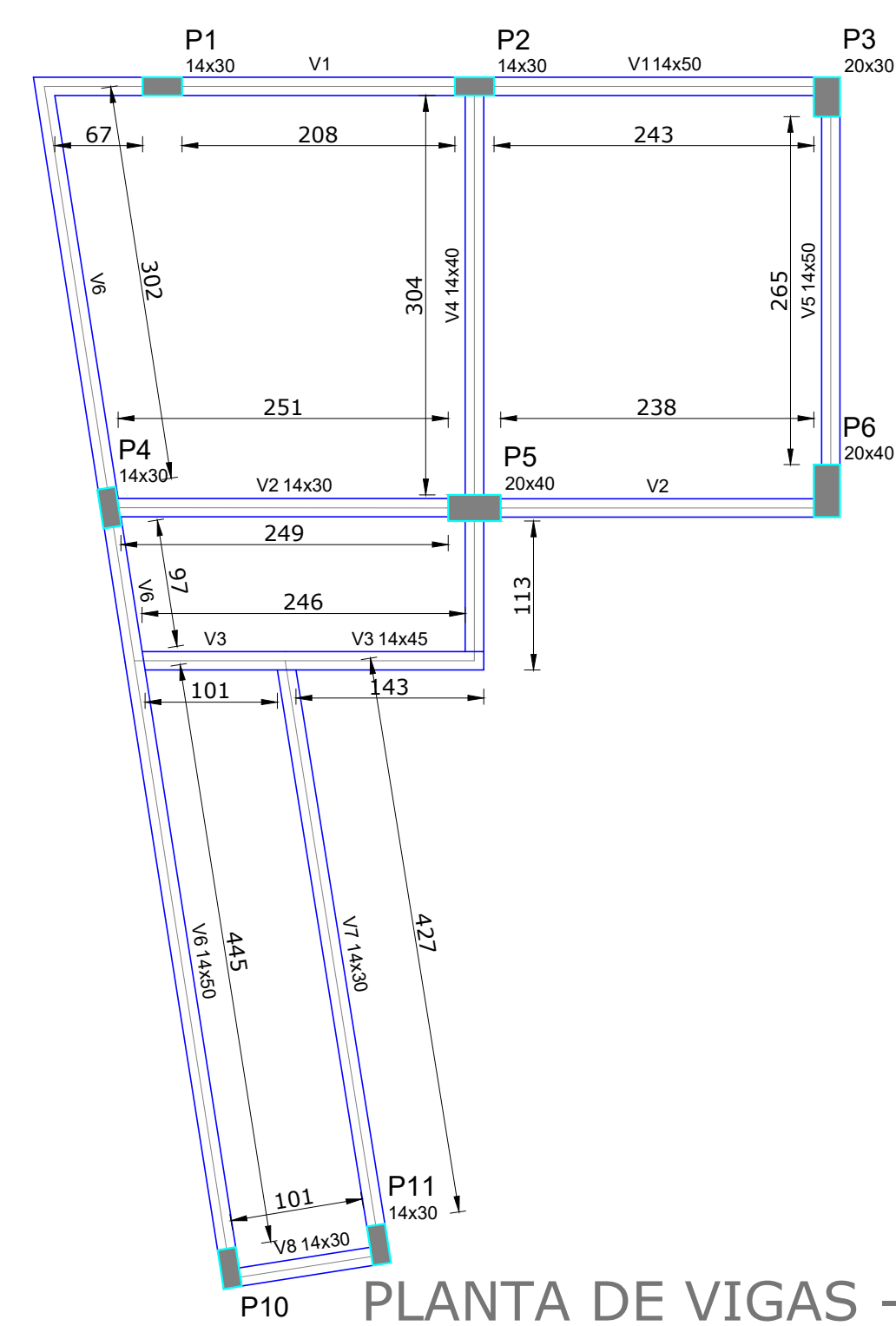
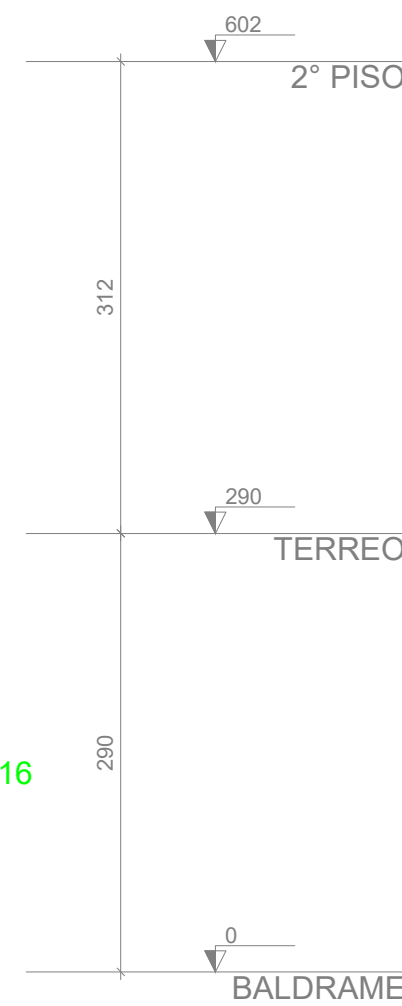
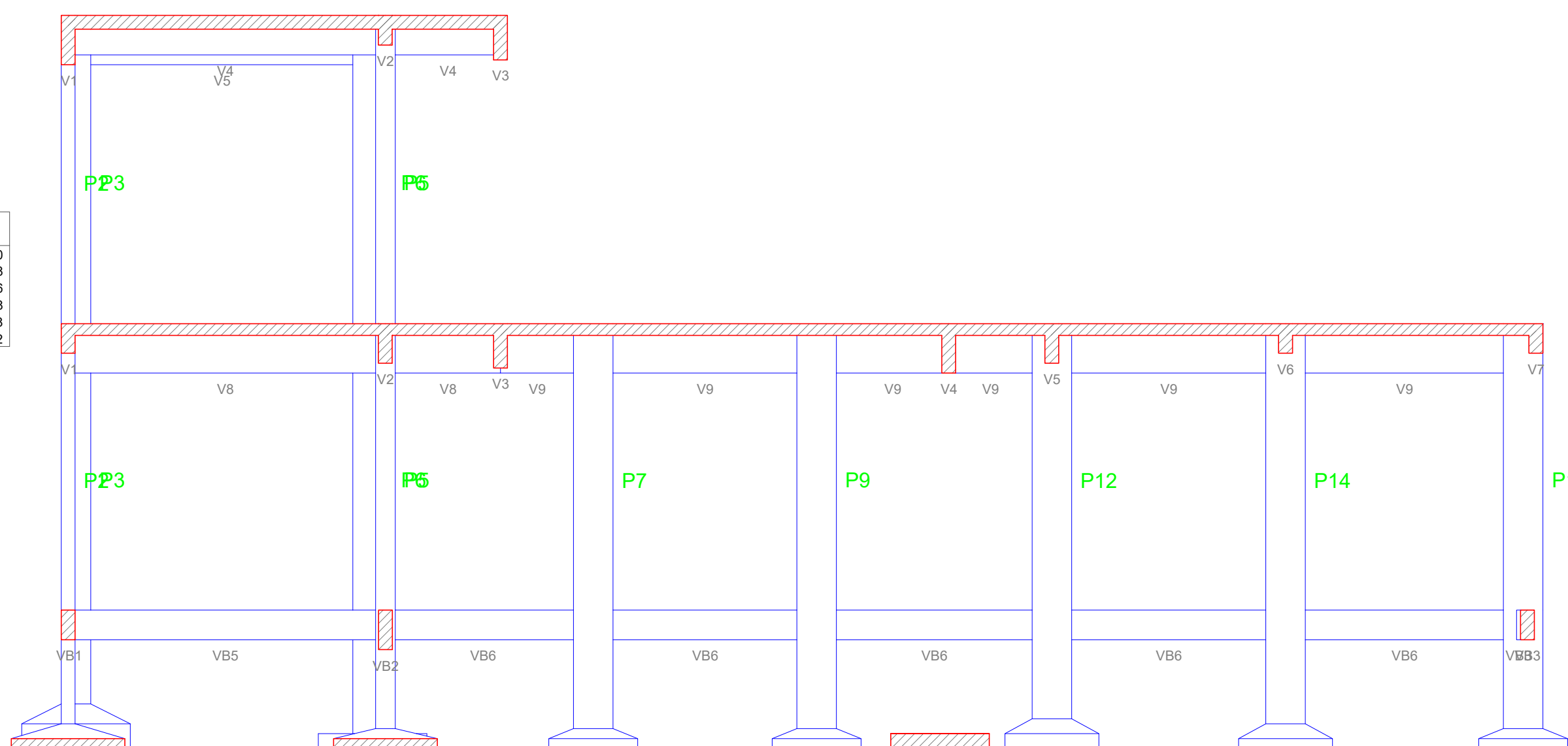
4xP1
P11
P3
2xP5

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	130	76	9880
	2	5.0	26	88	2288
	3	5.0	52	108	5616
	4	5.0	52	29	1508
	5	5.0	26	23	598
CA50	6	10.0	38	309	11742

Resumo do aço

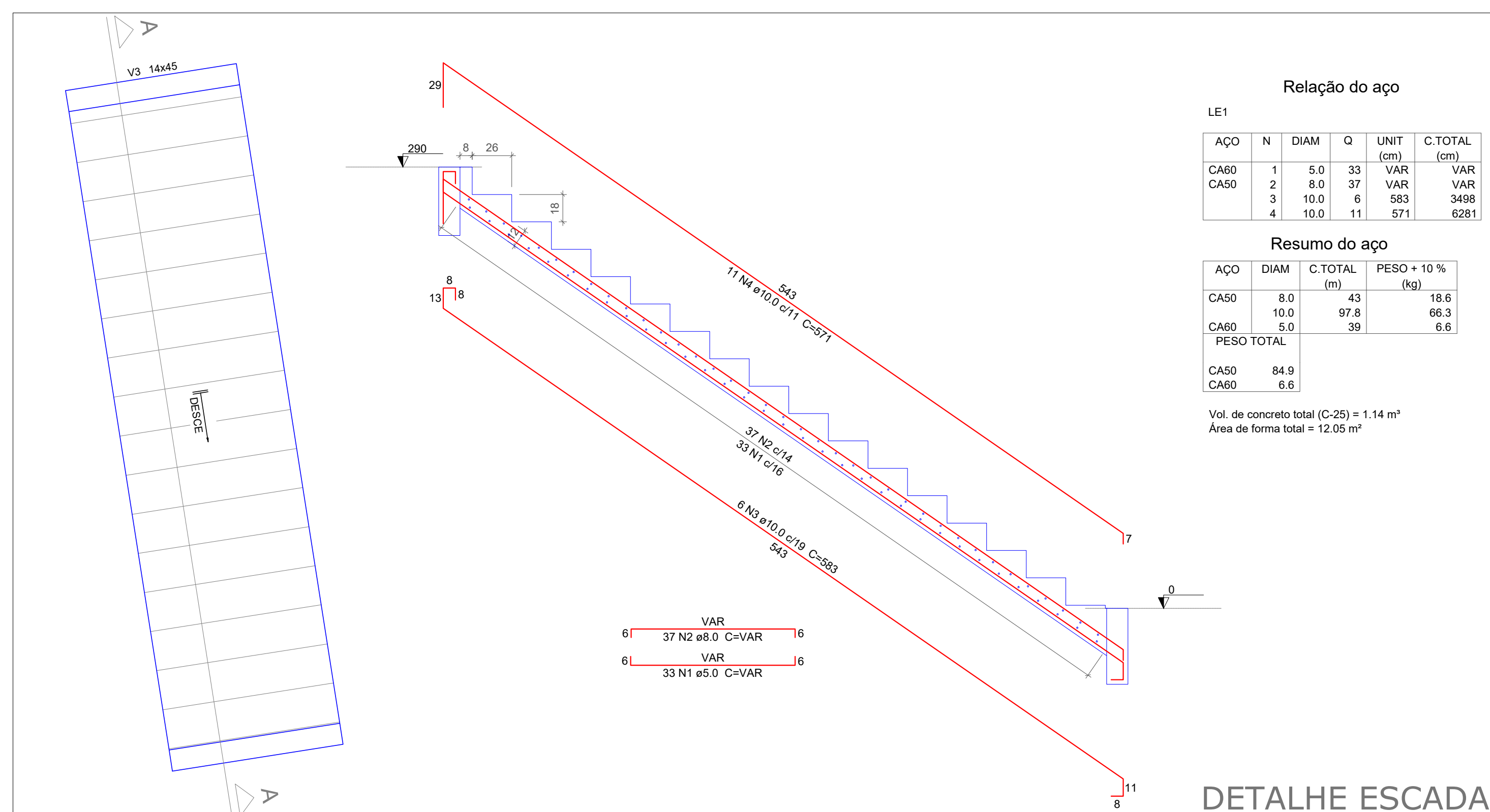
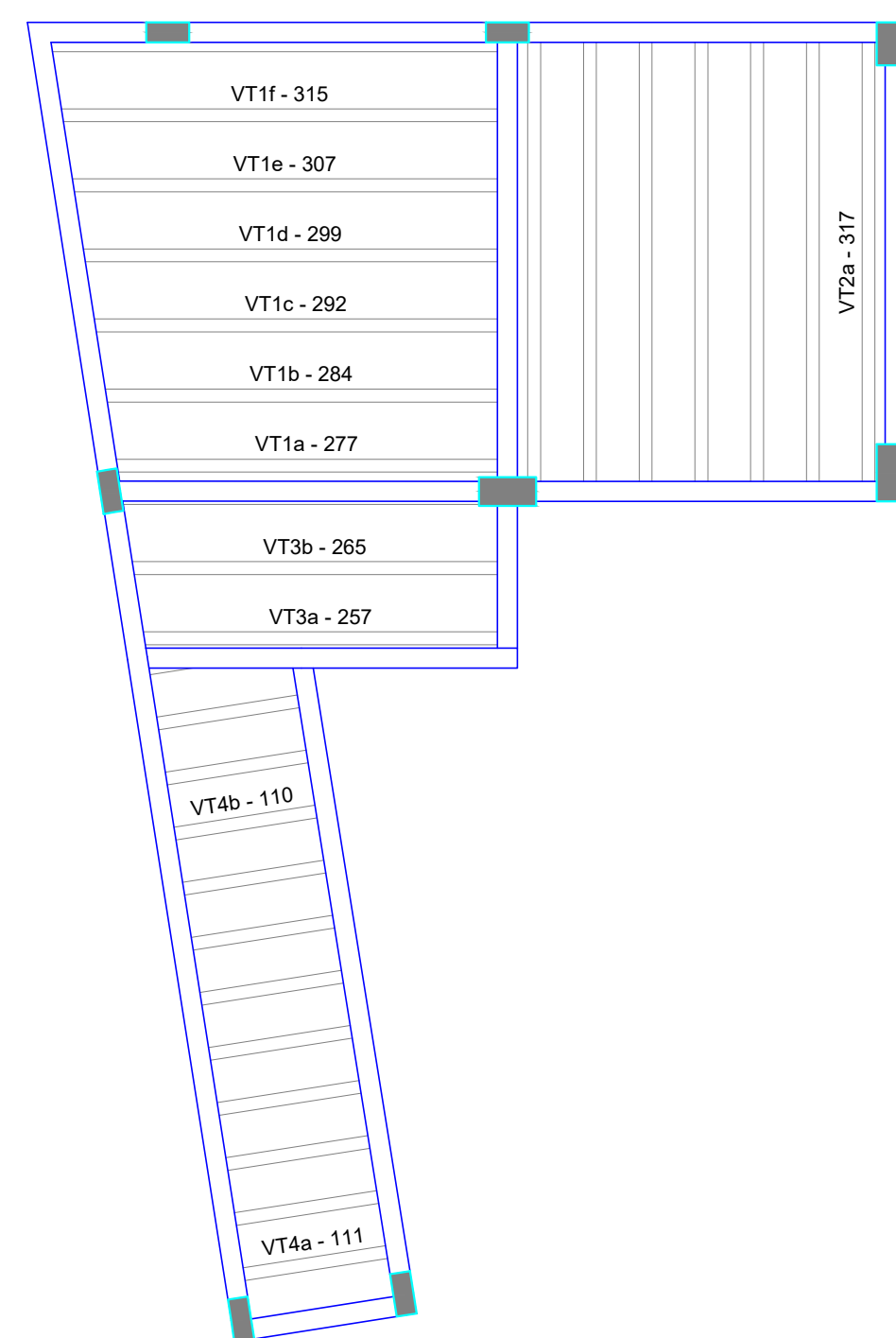
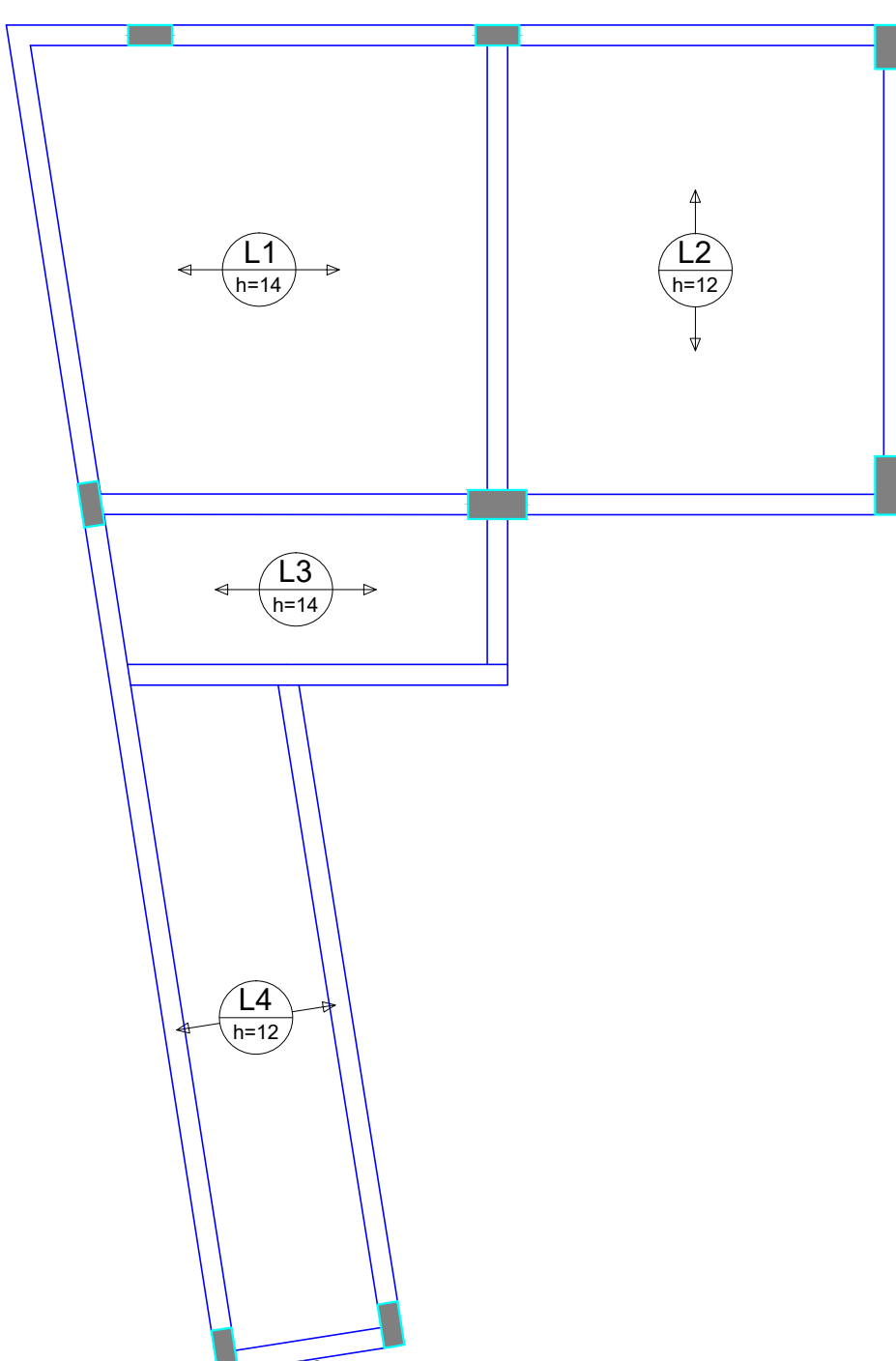
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	117.5	79.6
CA60	5.0	198.9	33.7
PESO TOTAL			
CA50	79.6		
CA60	33.7		

Vol. de concreto total (C-30) = 1.34 m³
 Área de forma total = 24.34 m²



AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	138.4	60.1
	10.0	11.2	7.6
CA60	5.0	177.2	30
PESO TOTAL			
CA50	67.6		
CA60	30		

Vol. de concreto total (C-30) = 2.23 m³
Área de forma total = 37.15 m²



Relação do aço

LE1

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	33	VAR	VAR
CA50	2	8.0	37	VAR	VAR
	3	10.0	6	583	3498
	4	10.0	11	571	6281

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	43	18.6
	10.0	97.8	66.3
CA60	5.0	39	6.8
PESO TOTAL			
CA50	84.9		
CA60	6.6		

Vol. de concreto total (C-25) = 1.14 m³
Área de forma total = 12.05 m²

ANOTAÇÕES:

**ENERGIA FOTOVOLTAICA;
REGULARIZAÇÃO;
URBANISMO;
PROJETOS;
OBRAS.**

(71) 9.9900-6962

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Bairro São Silvano, Colatina / ES. CEP: 29.703-162

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

J. C. VINTER JUNIOR
CREA 030447/D-ES

REFORMA E AMPLIAÇÃO CMRB

LOGRADOURO:

AV. 14 DE SETEMBRO, nº 1105

AUTOR:
WIDISLEY BARLOESUIS PORTO

CEP:
29920-000

BAIRRO:
SÃO SEBASTIÃO

DESENHISTA:
WIDISLEY BARLOESUIS PORTO

CIDADE:
RIO BANANAL

ESTADO:
ESPÍRITO SANTO

PROPRIETÁRIO:

OBJETO:

JUDICI GERALDO DALCUMUNE BOLSONI
(PRESIDENTE DA CÂMARA)

CÂMARA MUNICIPAL DE RIO BANANAL

CNPJ: 01.975.292/0001-40

DETALHAMENTO DOS PILARES E VIGAS DO 2º
PAVIMENTO,
PLANTA DE FORMA DE VIGAS DO 2º PAVIMENTO, PLANTA
DE LAJES, DETALHE DA ESCADA.

ÁREA:

ESCALA:

DATA:

FOLHA:

REVISÃO:

PRANCHA:

INDICADO NO QUADRO DE ÁREAS

INDICADA

09/07/2018

A1

00

05/05

ARQUIVO: C:\Bau\Desenv\ORÇAMENTAÇÃO\COLATINA\CL-006 - ELABOR PROJ. ARQ E COMPLET AMPLIAÇÃO REFORMA CÂMARA MUNICIPAL DO BANANAL\PROPOSTA E CONTRATO\CL-01-AMPROJETO ESTRUTURAL