

Forma do pavimento Baldrame (Nível 0)  
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	12x30	0	0
V2	12x30	0	0
V3	12x30	0	0
V4	14x50	0	0
V5	14x30	0	0
V6	14x50	0	0
V7	14x50	0	0
V8	14x30	0	0
V9	14x50	0	0
V10	14x30	0	0
V11	14x50	0	0
V12	12x25	-5	-5
V13	12x25	-5	-5
V14	12x30	0	0
V15	12x30	0	0
V16	12x25	-5	-5
V17	14x50	0	0
V18	12x30	0	0
V19	12x25	-5	-5
V20	14x50	0	0
V21	14x50	0	0
V22	12x25	-5	-5
V23	12x25	-5	-5
V24	14x50	0	0
V25	12x25	-5	-5

Blocos de enchimento				
Detalhe	Tipo	Nome	Dimensões (cm) hb bx by	Quantidade
1	EPS Unidirecional	B8/30/125	8 30 125	158

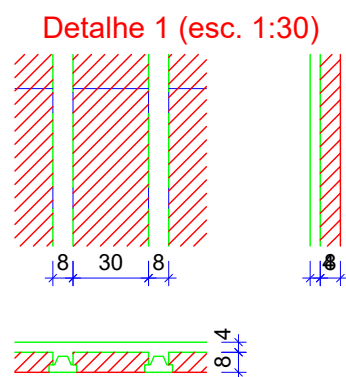
Lajes								
Dados					Sobrecarga (kgf/m²)			
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Pré-moldada	12	0	0	143	202	300	-
L2	Pré-moldada	12	0	0	143	202	500	-
L3	Pré-moldada	12	0	0	143	202	300	-
L4	Pré-moldada	12	0	0	143	202	500	-
L5	Pré-moldada	12	0	0	143	202	300	-
L6	Pré-moldada	12	0	0	143	202	300	-
L7	Pré-moldada	12	0	0	143	202	300	-
L8	Pré-moldada	12	0	0	143	202	300	-
L9	Pré-moldada	12	0	0	143	202	300	-
L10	Pré-moldada	12	0	0	143	202	300	-
L11	Pré-moldada	12	0	0	143	202	300	-
L12	Pré-moldada	12	0	0	143	202	300	-
L13	Pré-moldada	12	0	0	143	202	300	-
L14	Pré-moldada	12	0	0	143	202	300	-
L15	Pré-moldada	12	0	0	143	202	300	-

Características dos materiais	
fck	Ecs
(kgf/cm²)	(kgf/cm²)
250	241500
Dimensão máxima do agregado = 19 mm	

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	0
P2	14x30	0	0
P3	14x30	0	0
P4	14x30	0	0
P5	14x30	0	0
P6	20x40	0	0
P7	20x40	0	0
P8	20x20	0	0
P10	20x40	0	0
P11	20x20	0	0
P12	20x40	0	0
P13	40x40	0	0
P14	20x20	0	0
P15	20x20	-5	-5
P16	20x40	0	0
P17	20x60	0	0
P18	20x40	0	0
P19	20x20	-5	-5
P20	20x20	-5	-5
P21	20x20	-5	-5
P22	20x20	-5	-5
P23	20x20	-5	-5
P24	20x20	-5	-5
P35	25x80	0	0

Legenda dos pilares	
	Pilar que morre
	Pilar que passa
	Pilar com mudança de seção

Legenda das vigas e paredes	
	Viga



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

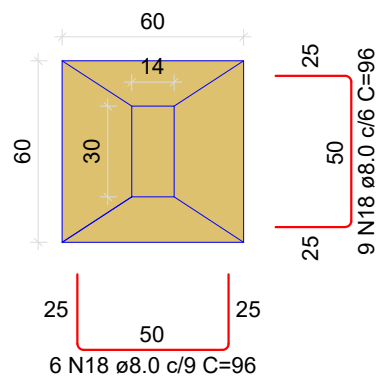
DESCRIÇÃO:  
Forma Baldrame

FOLHA:  
01/23

DIREITOS AUTORAIS RESERVADOS

S1=S3=S5

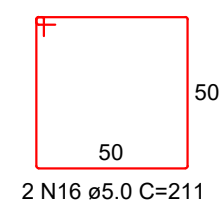
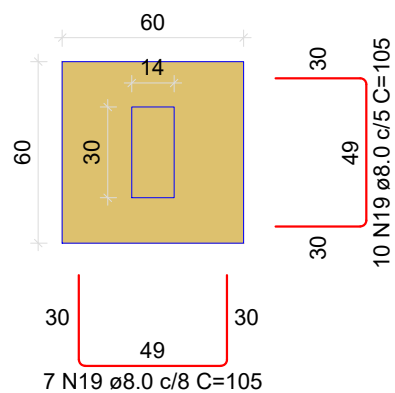
PLANTA  
ESC 1:25



Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

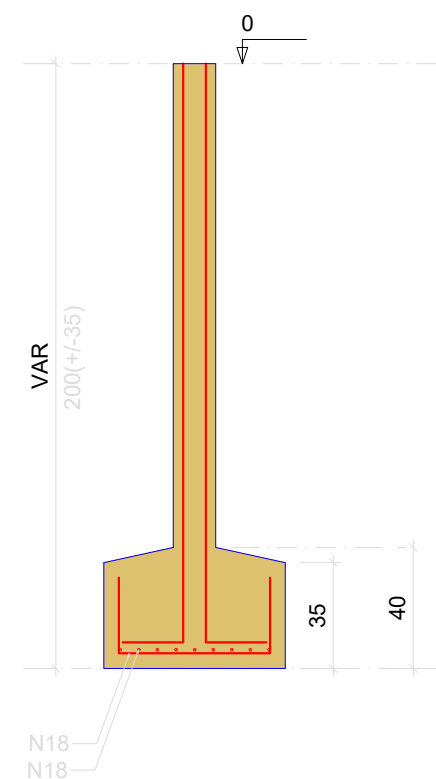
S2

PLANTA  
ESC 1:25

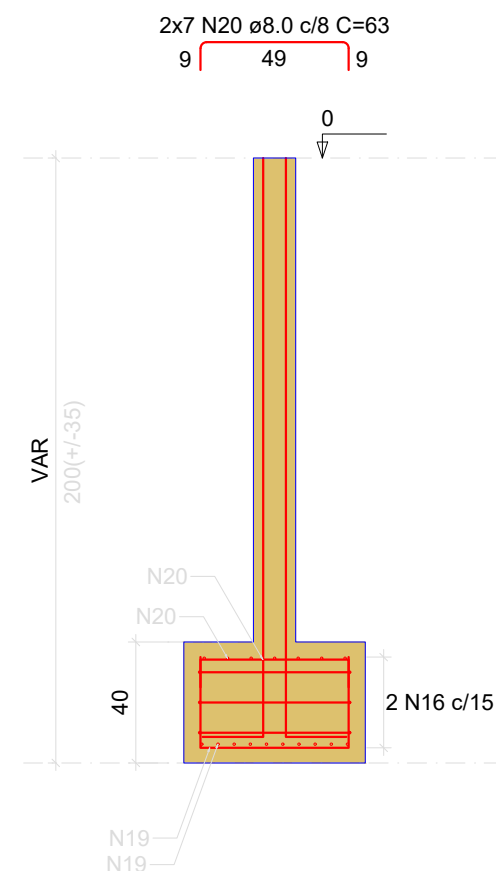


Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

CORTE  
ESC 1:25



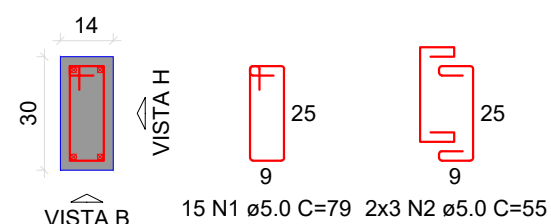
CORTE  
ESC 1:25



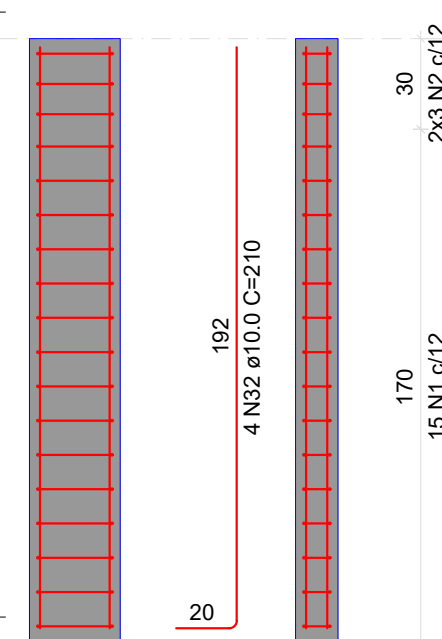
P1=P3=P5

BALDRAME - L1

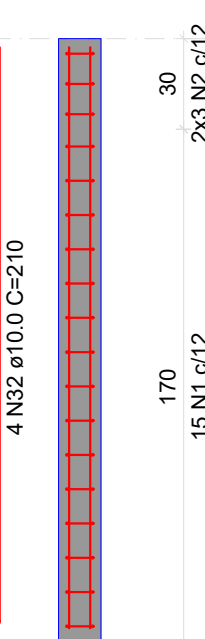
SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25



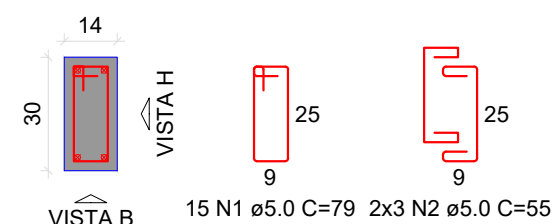
VISTA B  
ESC 1:25



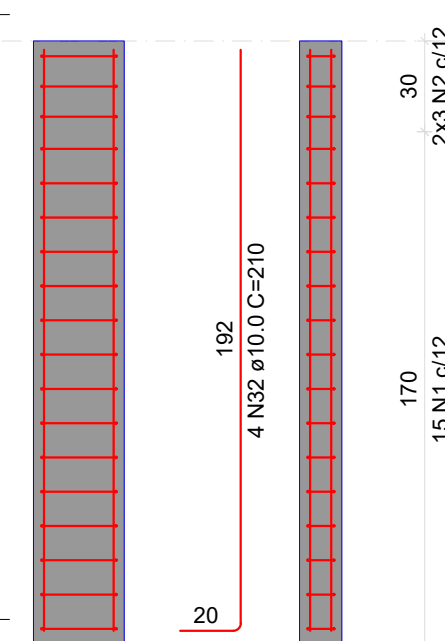
P2

BALDRAME - L1

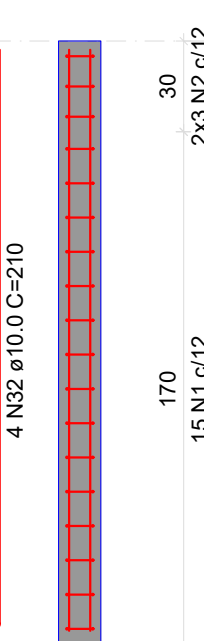
SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25



VISTA B  
ESC 1:25



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

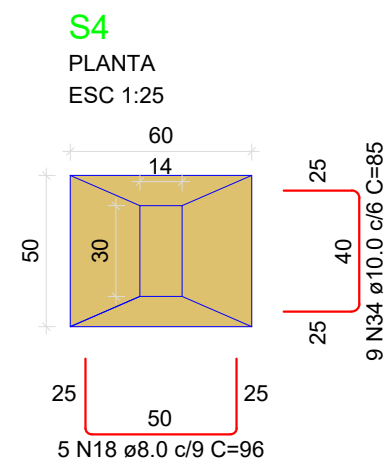


Projeto Estrutural - Cozinha

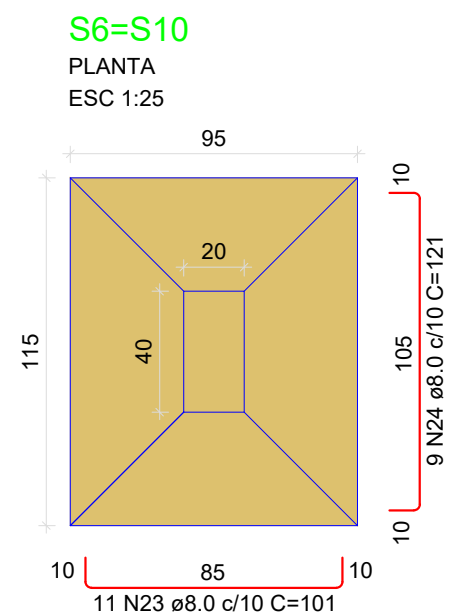
DESCRIÇÃO:  
Sapatas

FOLHA:  
02 / 23

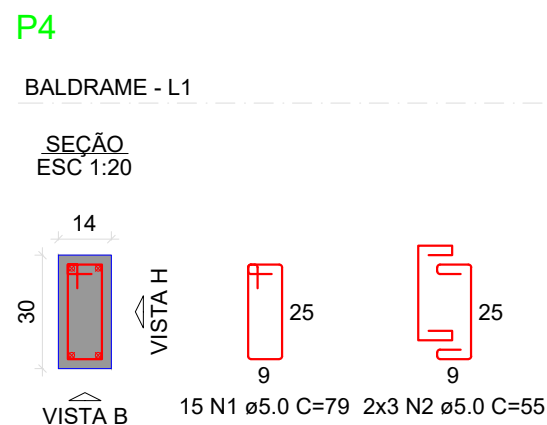
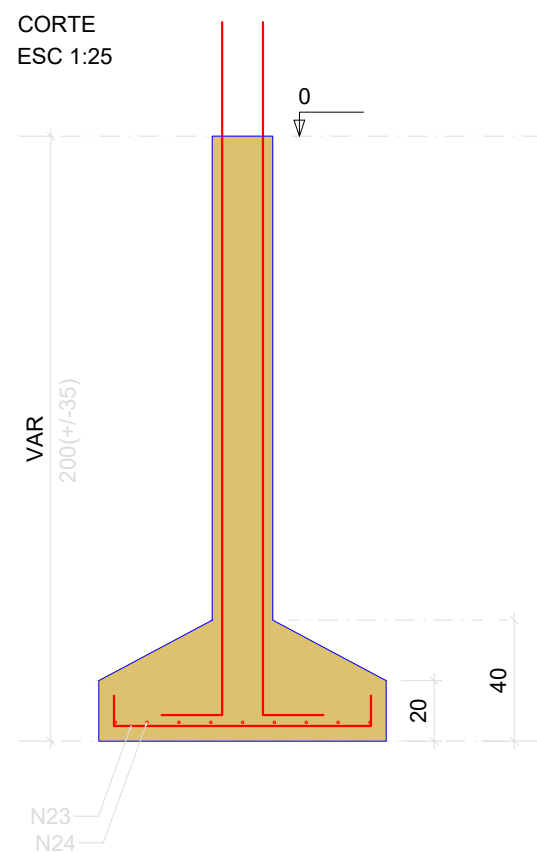
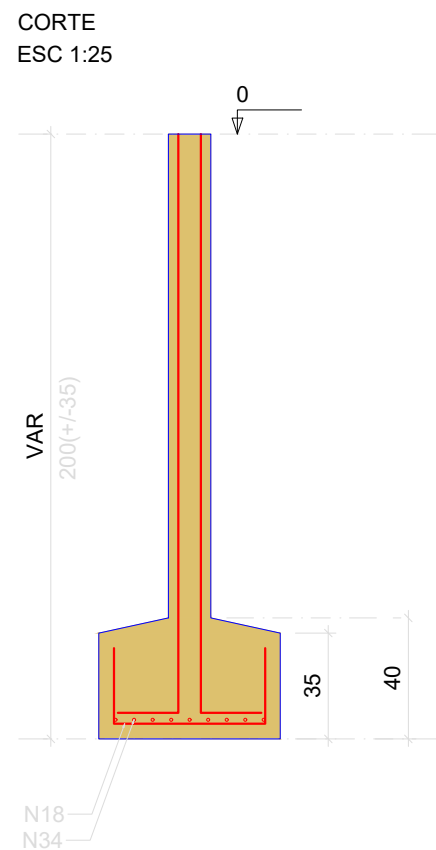
DIREITOS AUTORAIS RESERVADOS



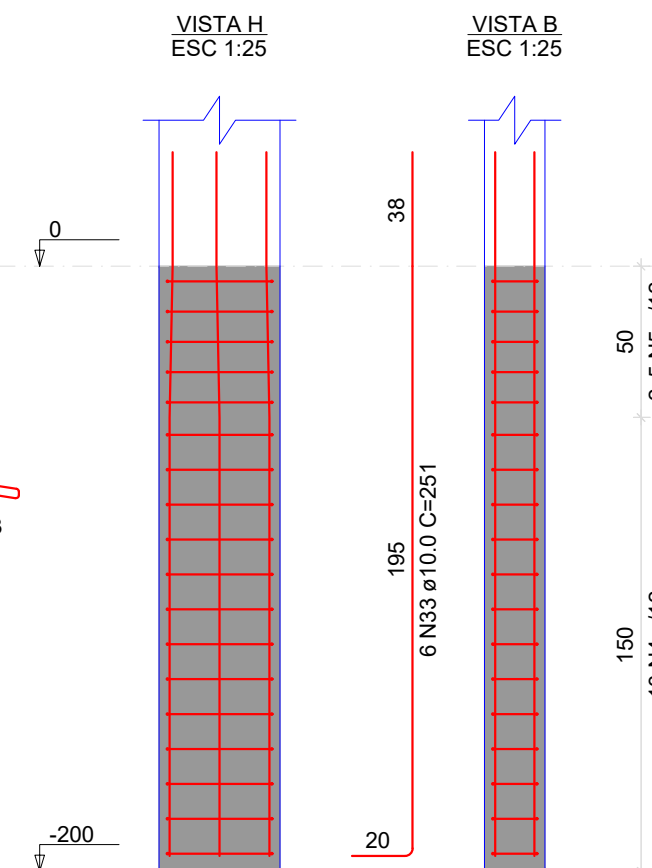
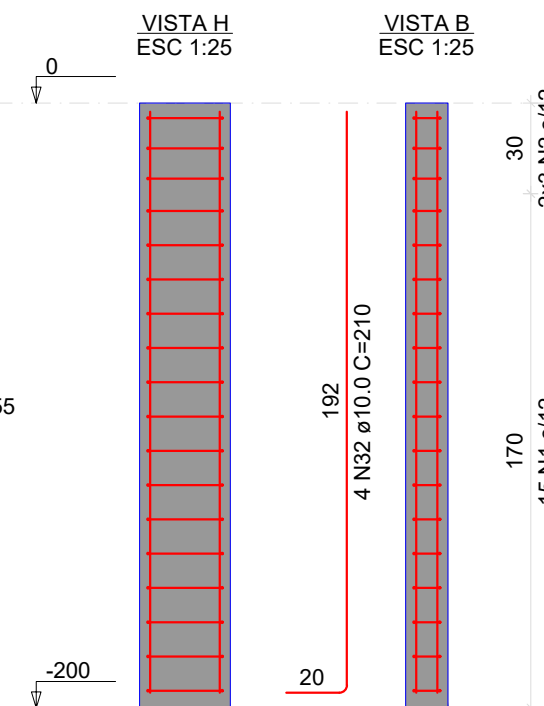
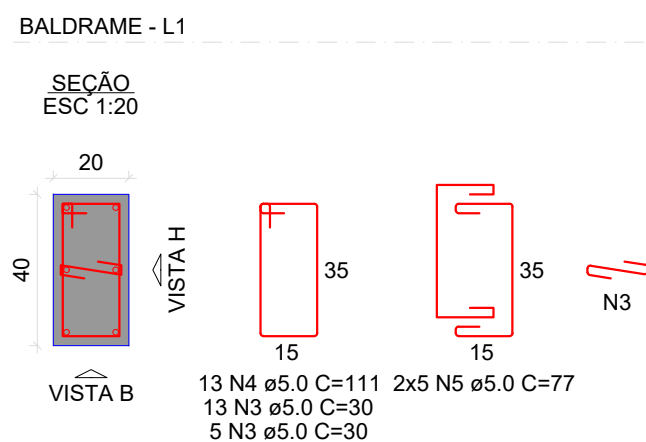
Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>



Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>



**P6=P10**



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Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Sapatas

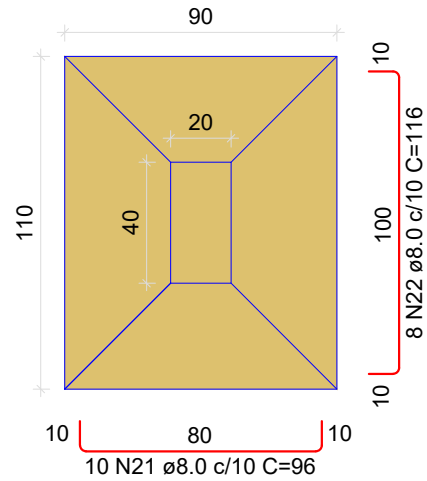
FOLHA:  
03 / 23

DIREITOS AUTORAIS RESERVADOS

P7

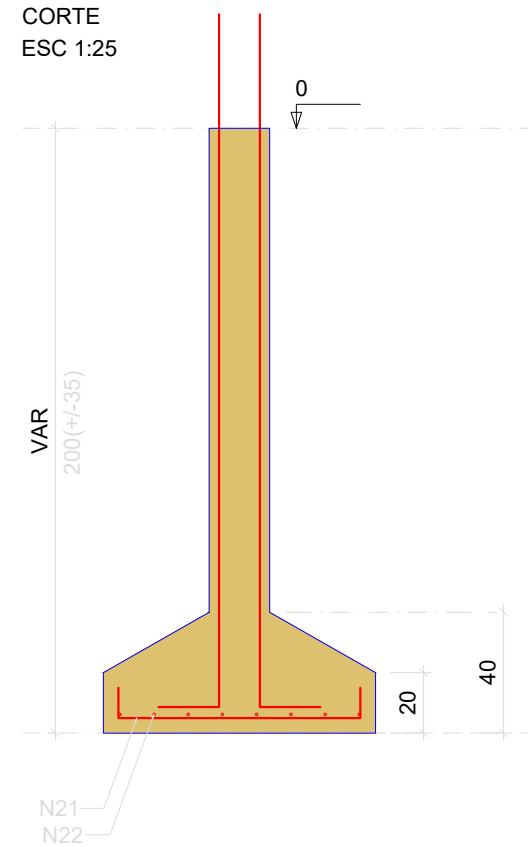
S7

PLANTA  
ESC 1:25



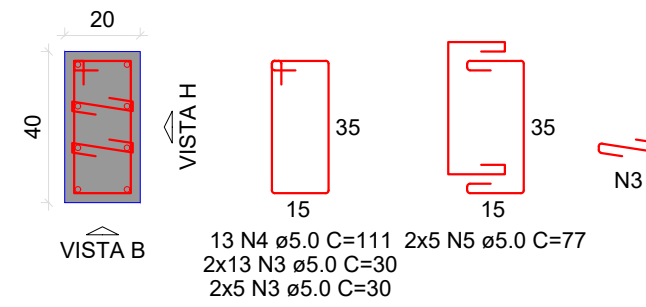
Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

CORTE  
ESC 1:25



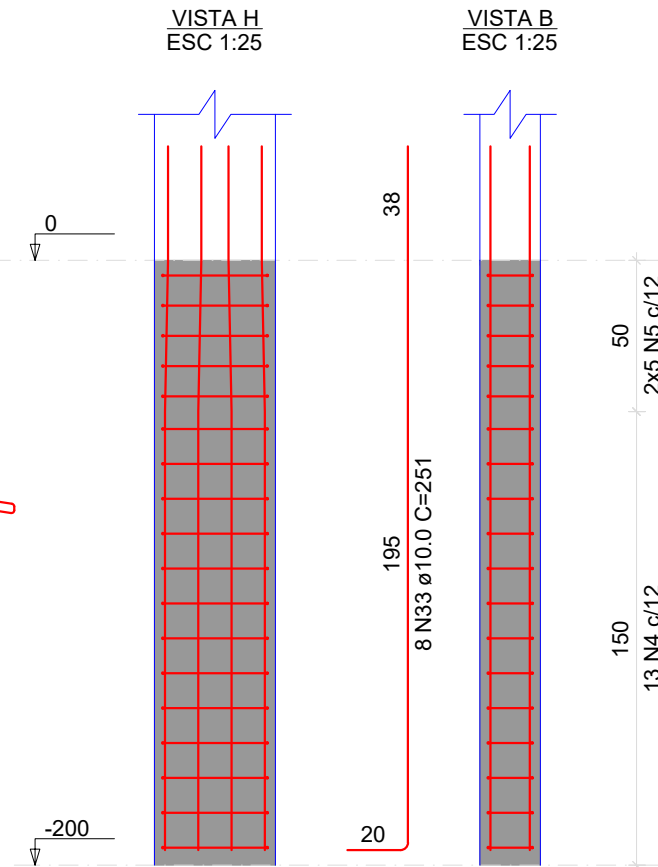
BALDRAME - L1

SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25

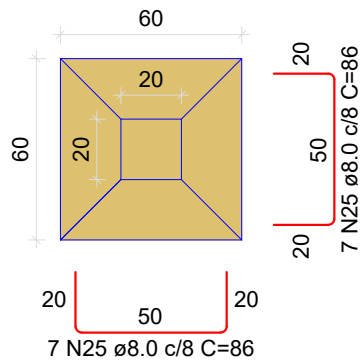
VISTA B  
ESC 1:25



P8=P11=P14

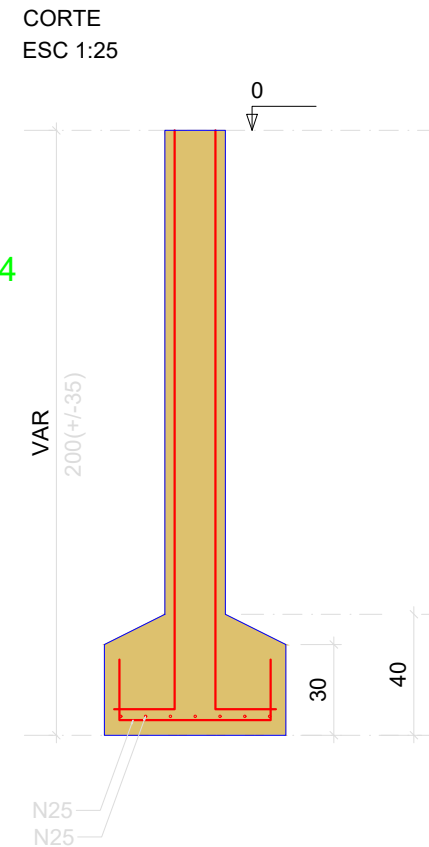
S8=S11=S14=S15=S19=S20=S21=S22=S23=S24

PLANTA  
ESC 1:25



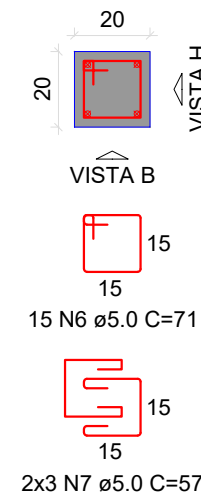
Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

CORTE  
ESC 1:25



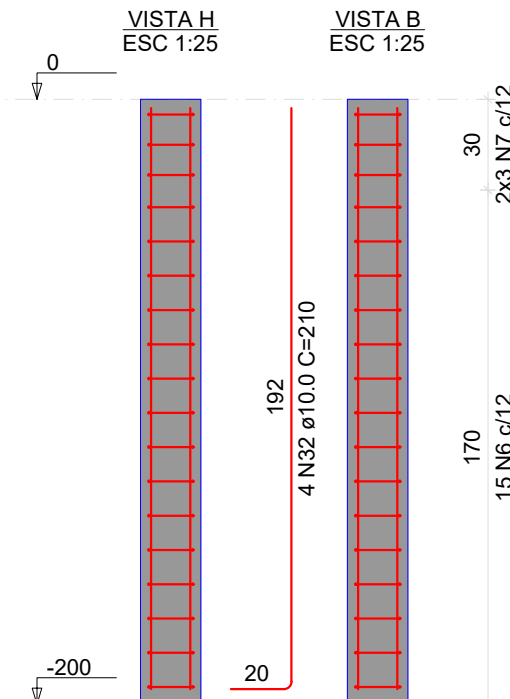
BALDRAME - L1

SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25

VISTA B  
ESC 1:25



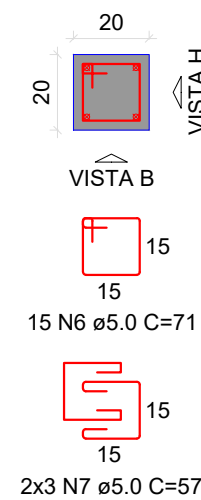
P15=P19=P20=P21=P22=  
=P23=P24

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

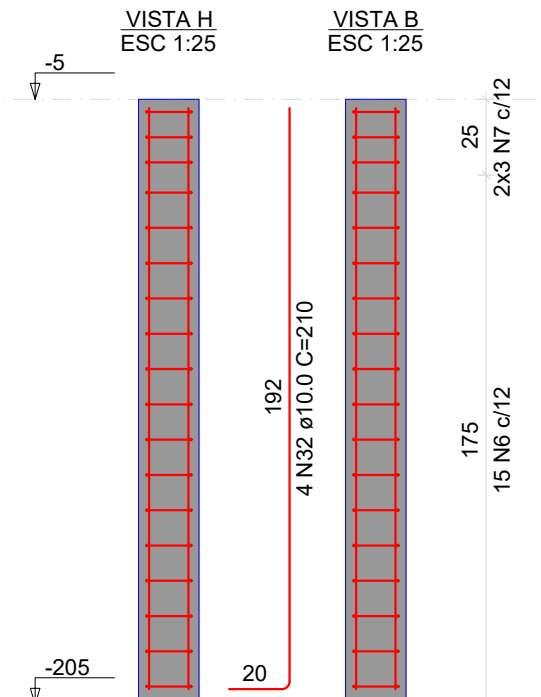
BALDRAME - L1

SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25

VISTA B  
ESC 1:25



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

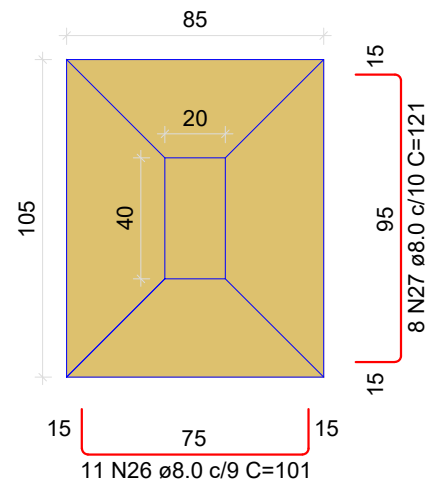
DESCRIÇÃO:  
Sapatas

FOLHA:  
04 / 23

DIREITOS AUTORAIS RESERVADOS

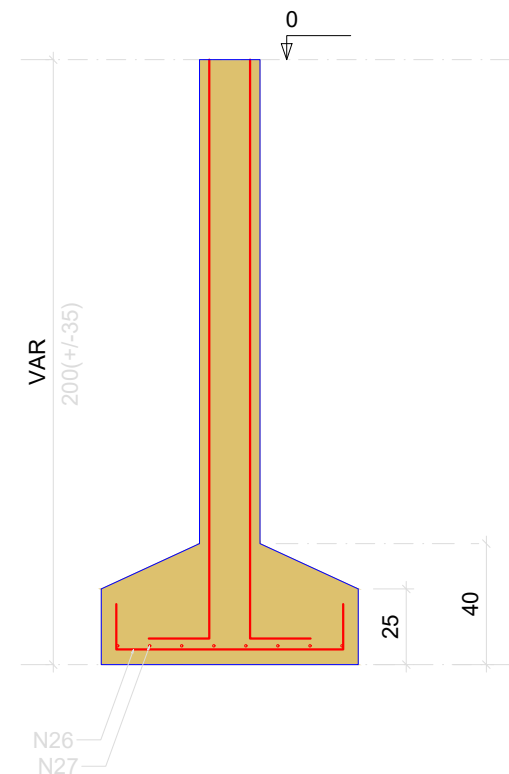
S12

PLANTA  
ESC 1:25



Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

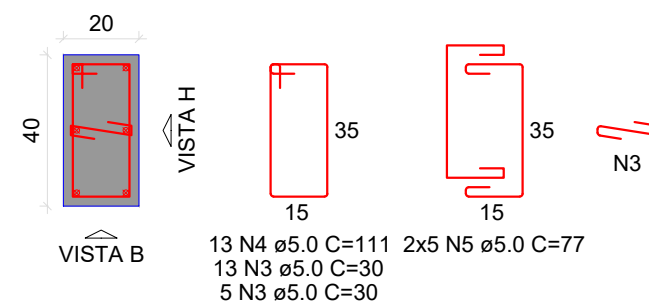
CORTE  
ESC 1:25



P12

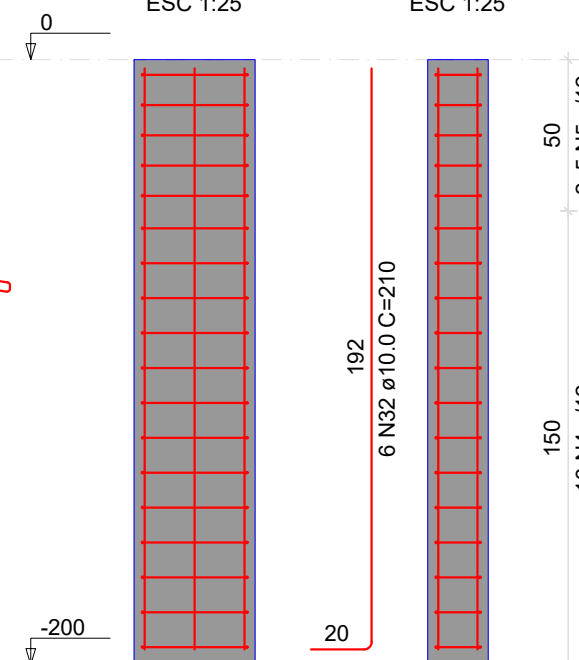
BALDRAME - L1

SEÇÃO  
ESC 1:20



VISTA H  
ESC 1:25

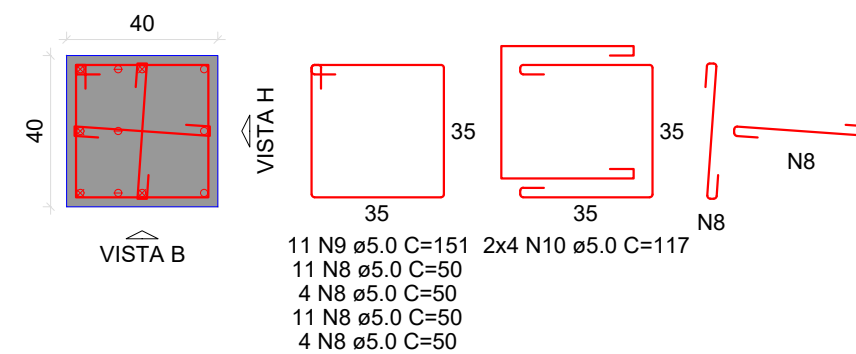
VISTA B  
ESC 1:25



P13

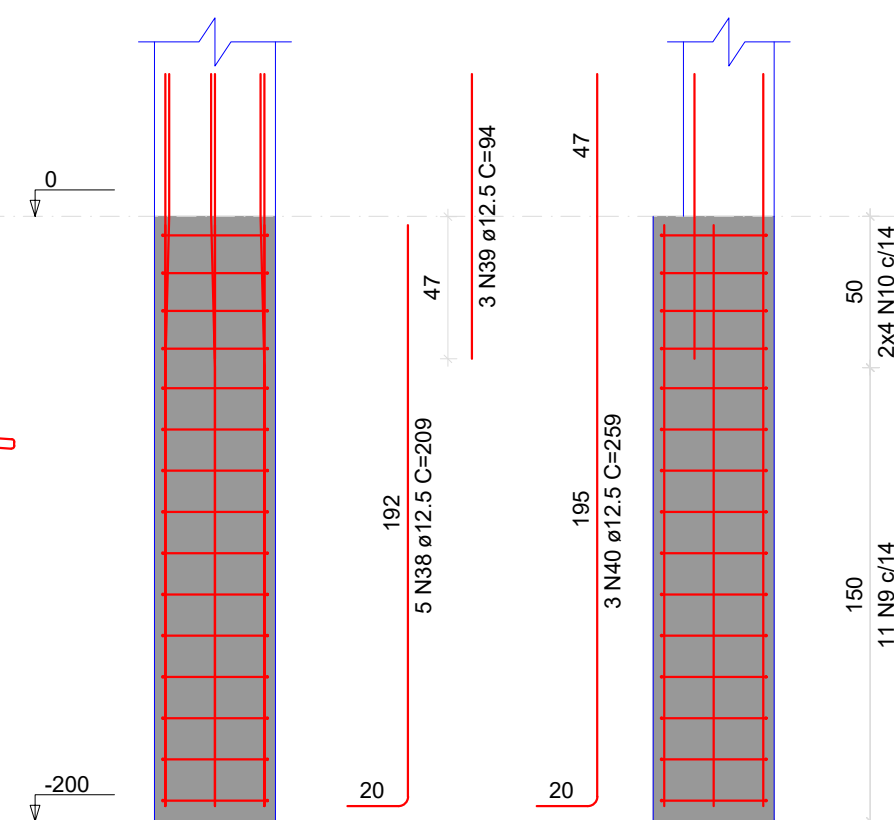
BALDRAME - L1

SEÇÃO  
ESC 1:20



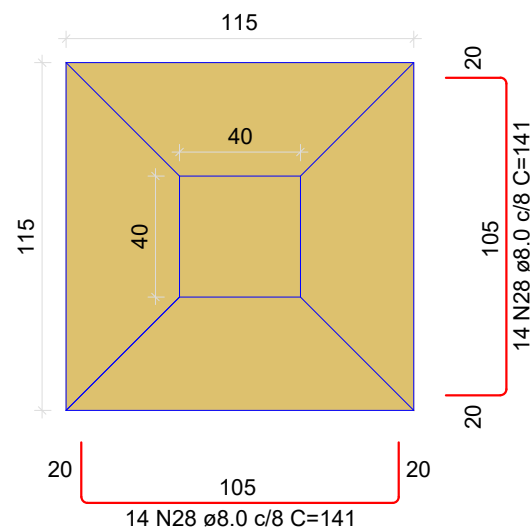
VISTA H  
ESC 1:25

VISTA B  
ESC 1:25



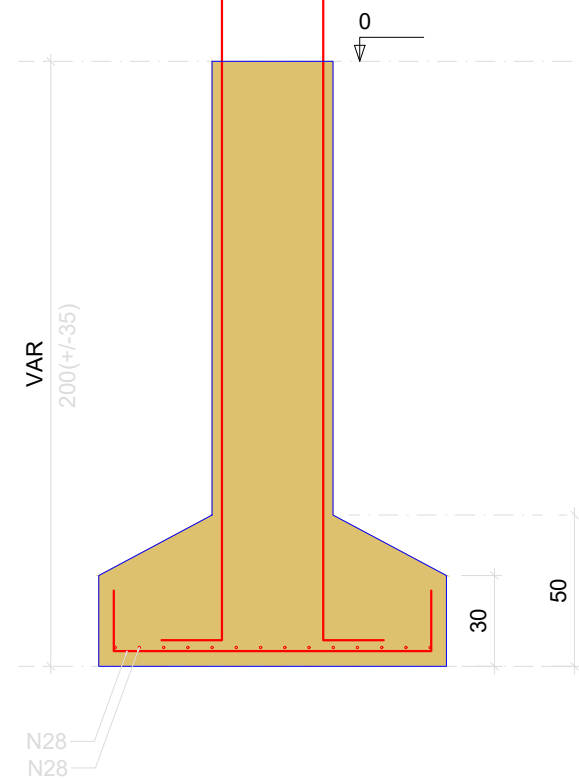
S13

PLANTA  
ESC 1:25



Solo com capacidade de suporte > 3.00 kgf/cm<sup>2</sup>  
Solo compactado sobre a sapata  
peso específico > 1600.00 kgf/m<sup>3</sup>

CORTE  
ESC 1:25



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Sapatas

FOLHA:  
05 / 23

DIREITOS AUTORAIS RESERVADOS

PLANTA  
ESC 1:25

Technical drawing of a reinforced concrete slab (P17) showing dimensions and reinforcement details.

**Dimensions:**

- Overall width: 184
- Overall height: 200 (+/- 35)
- Slab thickness: 65
- Clear height of column: 12
- Clear width of column: 14
- Clear width of slab: 69

**Reinforcement Details:**

- Top reinforcement: 9 N37  $\phi 10.0$  c/8 C=203
- Bottom reinforcement: 15 N42  $\phi 12.5$  c/13 C=91
- Vertical reinforcement: 8 N17 c/7
- Horizontal reinforcement: N36, N41

**Other Labels:**

- VAR
- 0
- P17

Solo com capacidade de suporte  $> 3.00 \text{ kgf/cm}^2$   
Solo compactado sobre a sapata  
peso específico  $> 1600.00 \text{ kgf/m}^3$

BALDRAME - L1

SEÇÃO  
ESC 1:20

13 N11  $\varnothing 5.0$  C=1512x5 N12  $\varnothing 5.0$  C=97  
2x13 N3  $\varnothing 5.0$  C=30  
2x5 N3  $\varnothing 5.0$  C=30

BALDRAME - L1

SEÇÃO  
ESC 1:20

13 N4 ø5.0 C=111 2x5 N5 ø5.0 C=77  
13 N3 ø5.0 C=30  
5 N3 ø5.0 C=30

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

Technical drawing of a reinforced concrete slab cross-section. The slab is 20 cm thick and 192 cm wide. It is reinforced with 6 N32 bars (top) and 13 N4 bars (bottom). The top reinforcement is spaced at 120 mm, and the bottom reinforcement is spaced at 150 mm. The slab is supported by two columns. The drawing includes dimensions for the slab width, thickness, and reinforcement spacing.

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

### Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Sapatas

FOLHA: 06 / 23



1111

RELAÇÃO DO AÇO					
3xP1	P2	P4			
2xP6	P7	3xP8			
P12	P13	7xP15			
P16	P17	P18			
P35	3xS1	S2			
S4	S7	2xS10			
10xS11	S12	S13			
S18	S35	S16-17			
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	75	79	5925
	2	5.0	30	55	1650
	3	5.0	162	30	4860
	4	5.0	78	111	8658
	5	5.0	60	77	4620
	6	5.0	150	71	10650
	7	5.0	60	57	3420
	8	5.0	30	50	1500
	9	5.0	11	151	1661
	10	5.0	8	117	936
	11	5.0	13	151	1963
	12	5.0	10	97	970
	13	5.0	30	35	1050
	14	5.0	11	201	2211
	15	5.0	8	127	1016
CA50	16	5.0	2	211	422
	17	5.0	8	521	4168
	18	8.0	50	96	4800
	19	8.0	17	105	1785
	20	8.0	14	63	882
	21	8.0	10	96	960
	22	8.0	8	116	928
	23	8.0	22	101	2222
	24	8.0	18	121	2178
	25	8.0	140	86	12040
	26	8.0	11	101	1111
	27	8.0	8	121	968
	28	8.0	28	141	3948
	29	8.0	8	91	728
	30	8.0	7	106	742
	31	8.0	14	191	2674
	32	10.0	72	210	15120
	33	10.0	34	251	8534
	34	10.0	9	85	765
	35	10.0	14	135	1890
	36	10.0	10	289	2890
	37	10.0	9	203	1827
	38	12.5	5	209	1045
	39	12.5	3	94	282
	40	12.5	11	259	2849
	41	12.5	19	173	3287
	42	12.5	15	91	1365

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	359.7	156.1
	10.0	310.3	210.4
	12.5	88.3	93.5
CA60	5.0	556.8	94.4
PESO TOTAL (kg)			
CA50	460.1		
CA60	94.4		

Volume de concreto (C-25) = 8.08 m³  
Área de forma = 71.77 m²

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Hospital  
Santa Terezinha

Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Sapatas

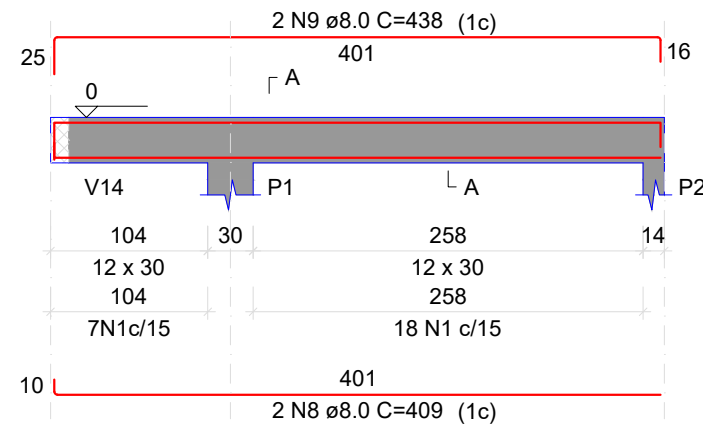
FOLHA:  
07 / 23

DIREITOS AUTORAIS RESERVADOS

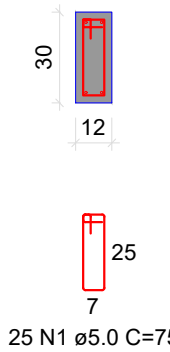


V1

ESC 1:50

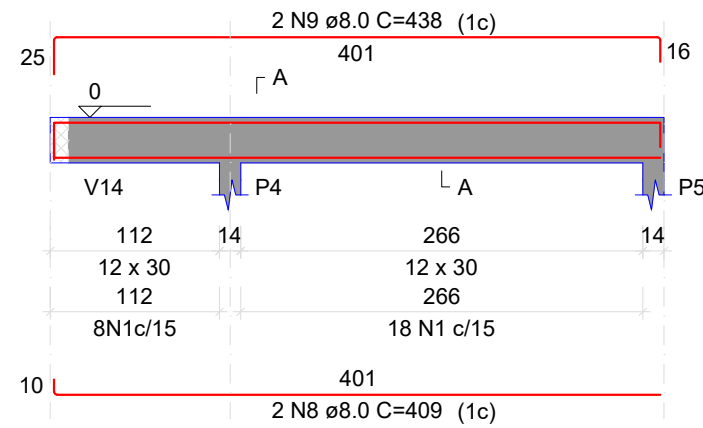


SEÇÃO A-A  
ESC 1:25

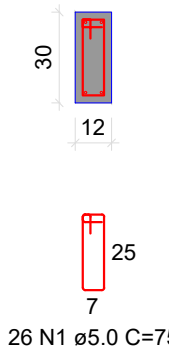


V2

ESC 1:50

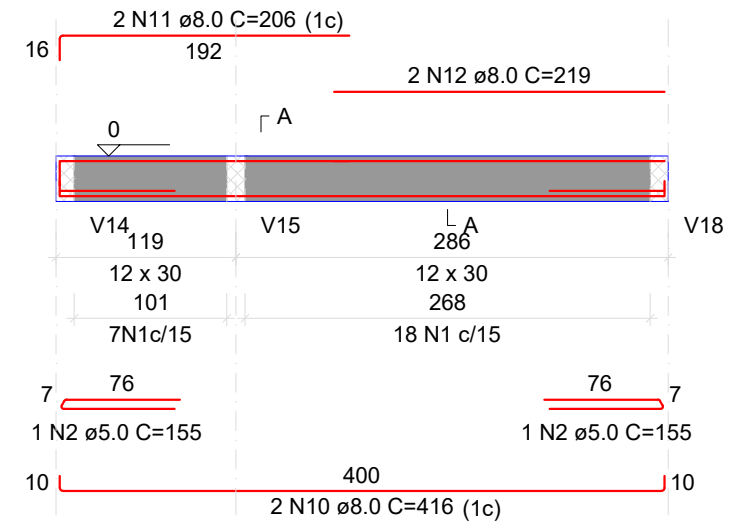


SEÇÃO A-A  
ESC 1:25

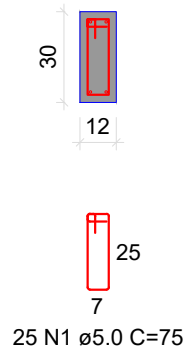


V3

ESC 1:50

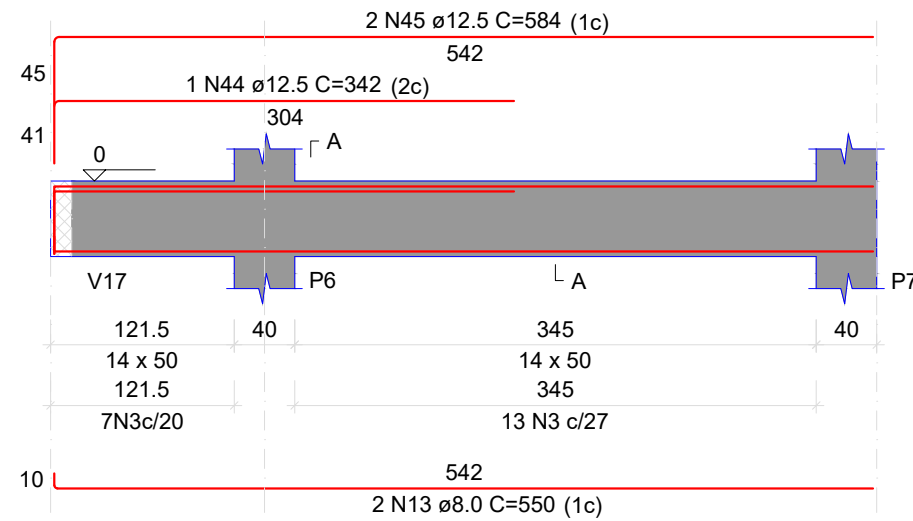


SEÇÃO A-A  
ESC 1:25

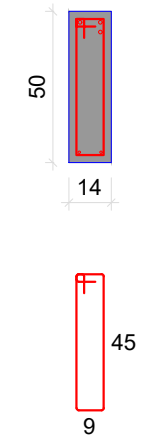


V4

ESC 1:50

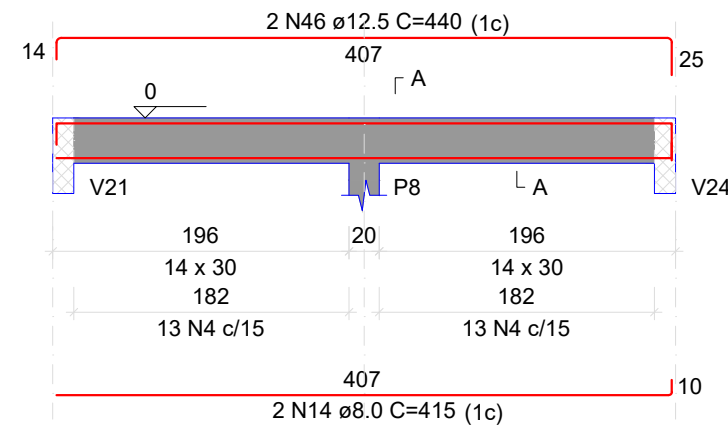


SEÇÃO A-A  
ESC 1:25

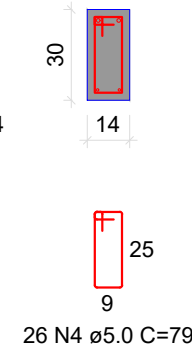


V5

ESC 1:50

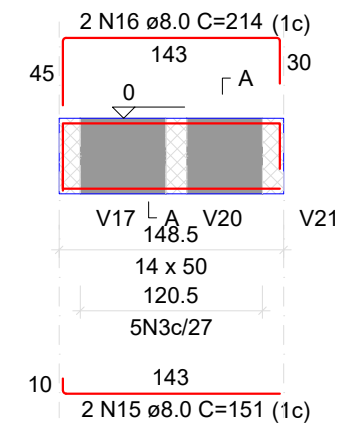


SEÇÃO A-A  
ESC 1:25

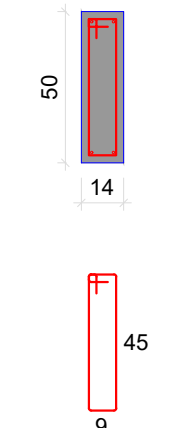


V6

ESC 1:50

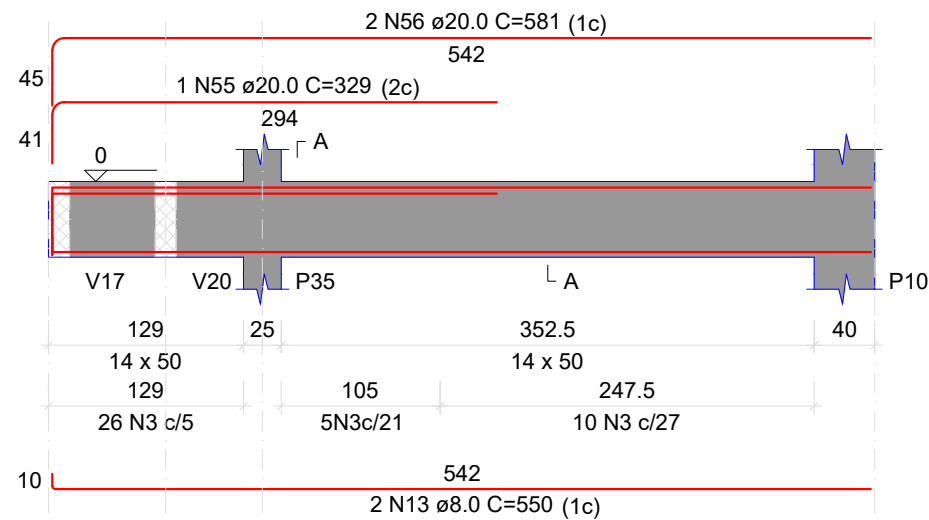


SEÇÃO A-A  
ESC 1:25

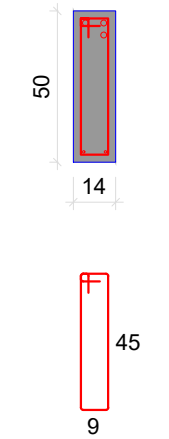


V7

ESC 1:50



SEÇÃO A-A  
ESC 1:25



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Baldrame

FOLHA:  
08 / 23

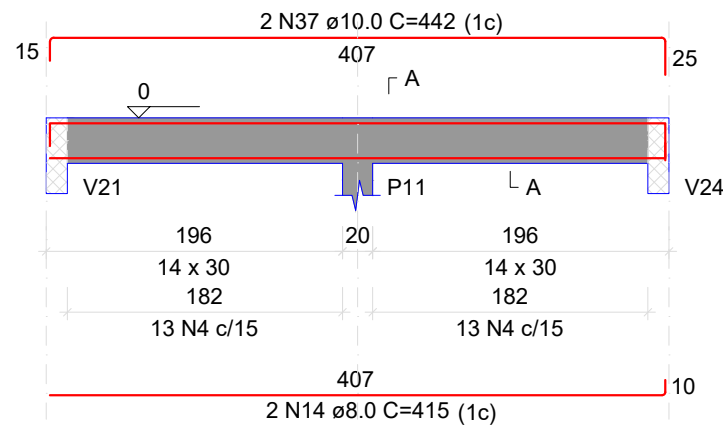


DIREITOS AUTORAIS RESERVADOS



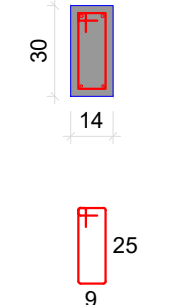
V8

ESC 1:50



SEÇÃO A-A

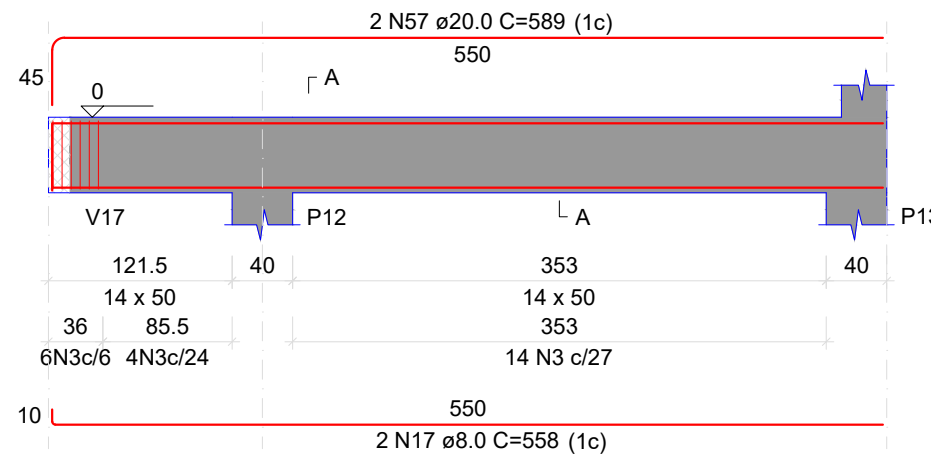
ESC 1:25



26 N4  $\phi$ 5.0 C=79

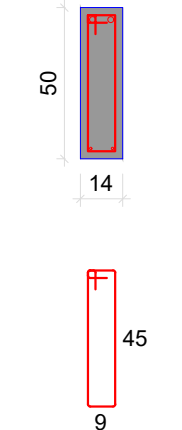
V9

ESC 1:50



SEÇÃO A-A

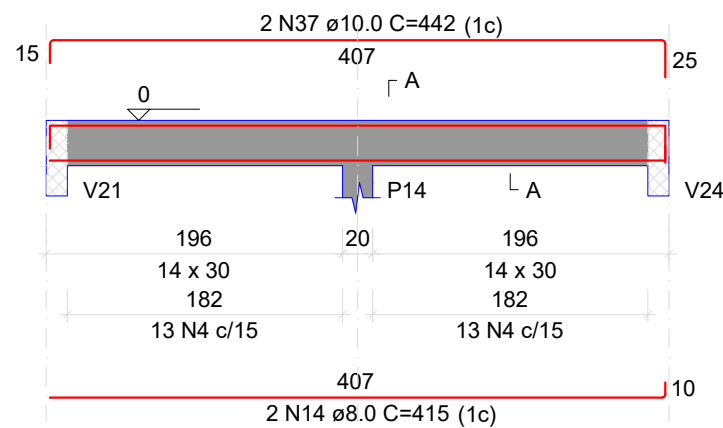
ESC 1:25



24 N3  $\phi$ 5.0 C=119

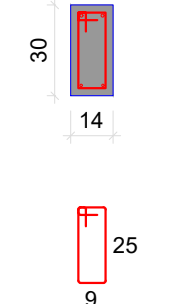
V10

ESC 1:50



SEÇÃO A-A

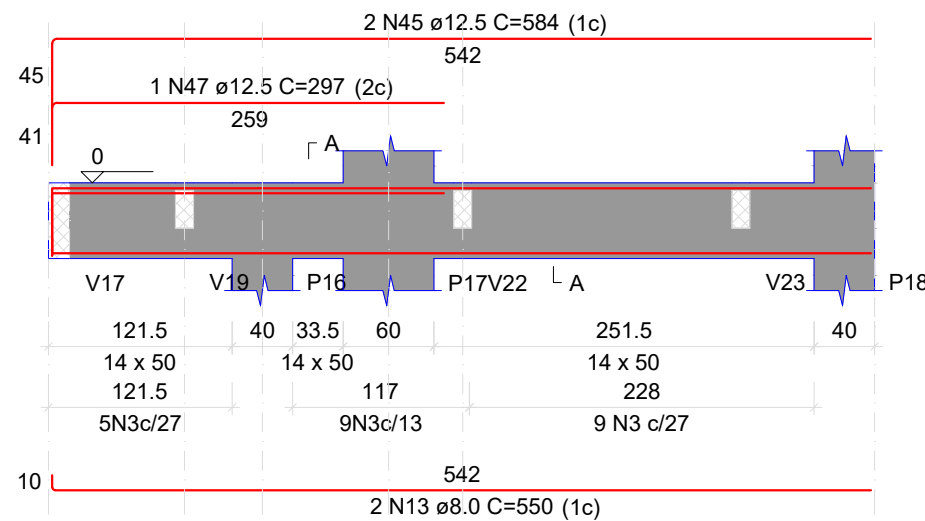
ESC 1:25



26 N4  $\phi$ 5.0 C=79

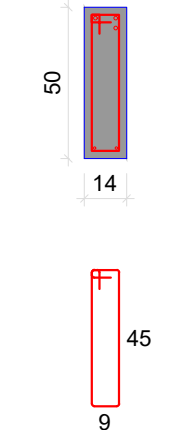
V11

ESC 1:50



SEÇÃO A-A

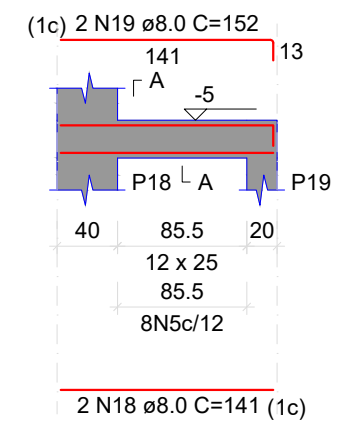
ESC 1:25



23 N3  $\phi$ 5.0 C=119

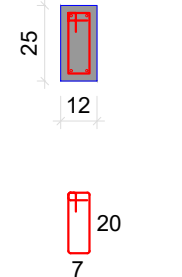
V12

ESC 1:50



SEÇÃO A-A

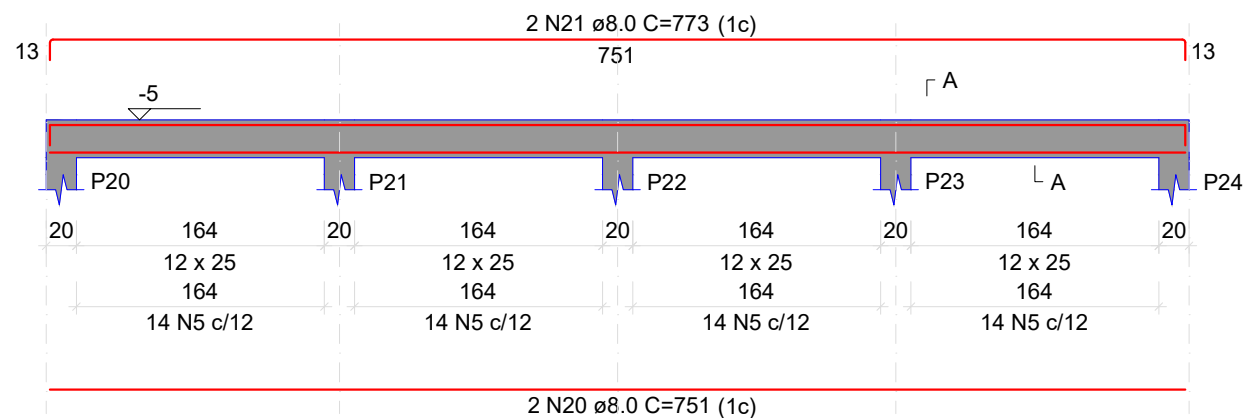
ESC 1:25



8 N5  $\phi$ 5.0 C=65

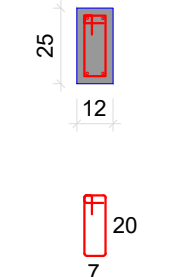
V13

ESC 1:50



SEÇÃO A-A

ESC 1:25



56 N5  $\phi$ 5.0 C=65

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM

Rua Itália, 919 - Centro - Erechim - RS

Projeto Estrutural - Cozinha

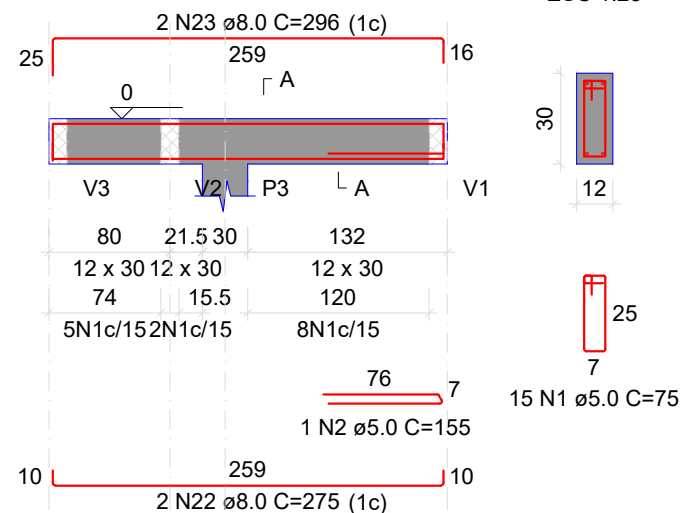
DESCRIÇÃO:  
Vigas Baldrame

FOLHA:  
09 / 23

DIREITOS AUTORAIS RESERVADOS

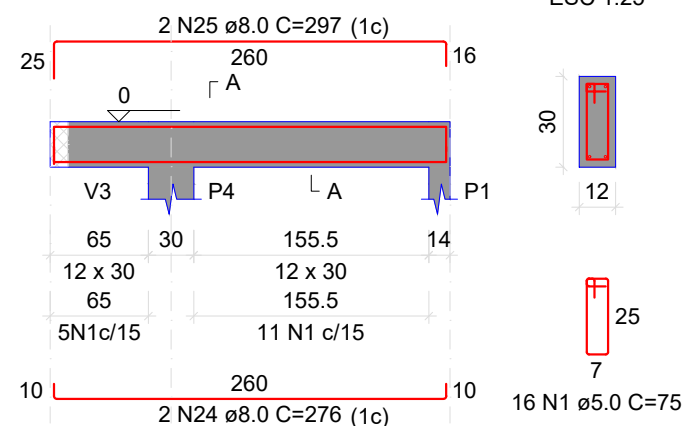
V14

ESC 1:50



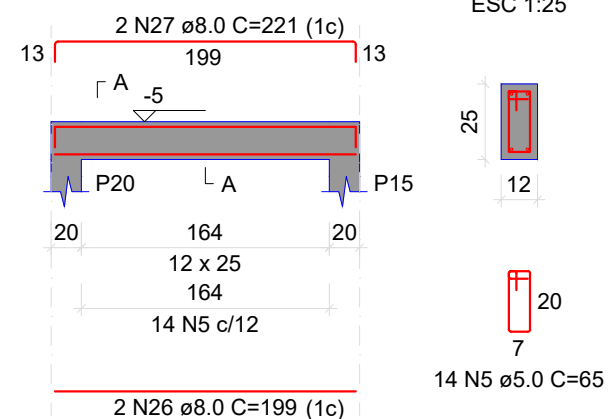
V15

ESC 1:50



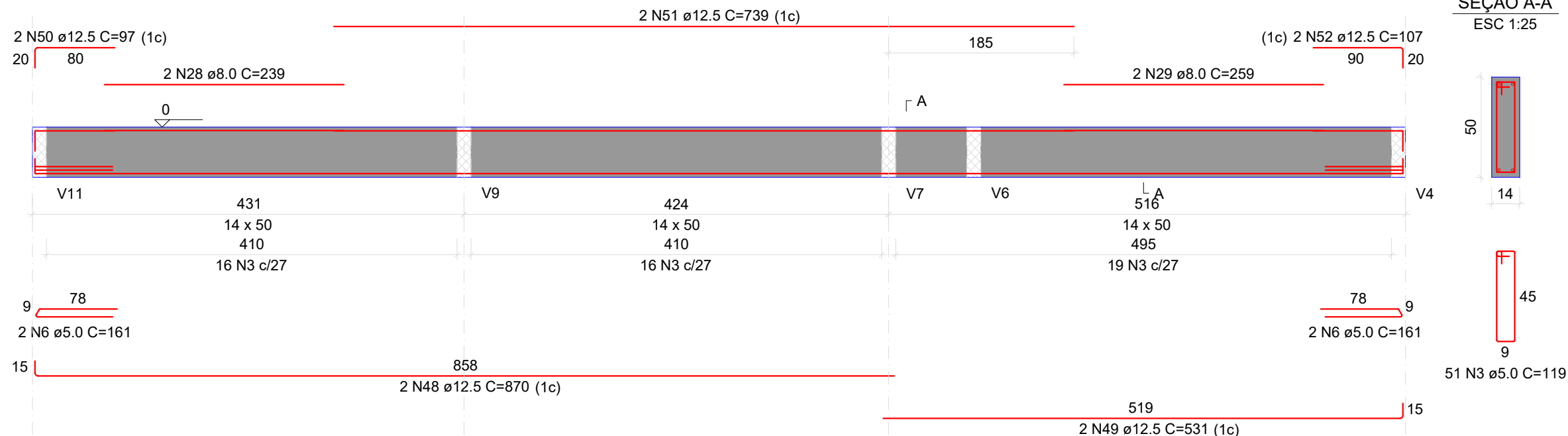
V16

ESC 1:50



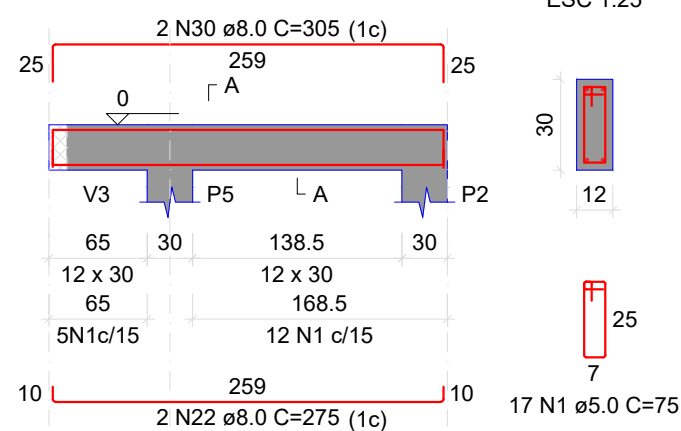
V17

ESC 1:50



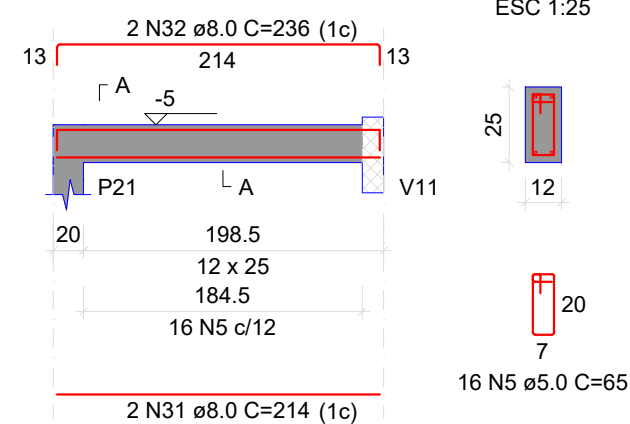
V18

ESC 1:50



V19

ESC 1:50



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Baldrame

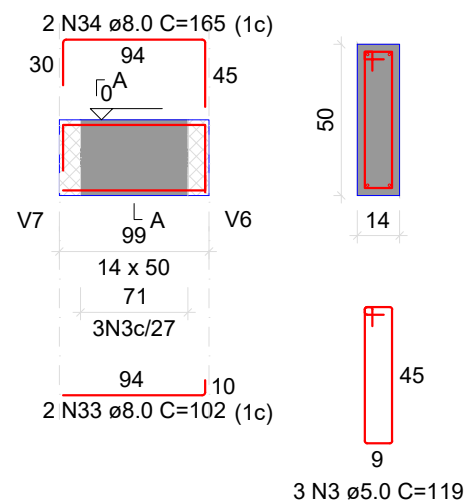
FOLHA:  
10 / 23



DIREITOS AUTORAIS RESERVADOS

V20

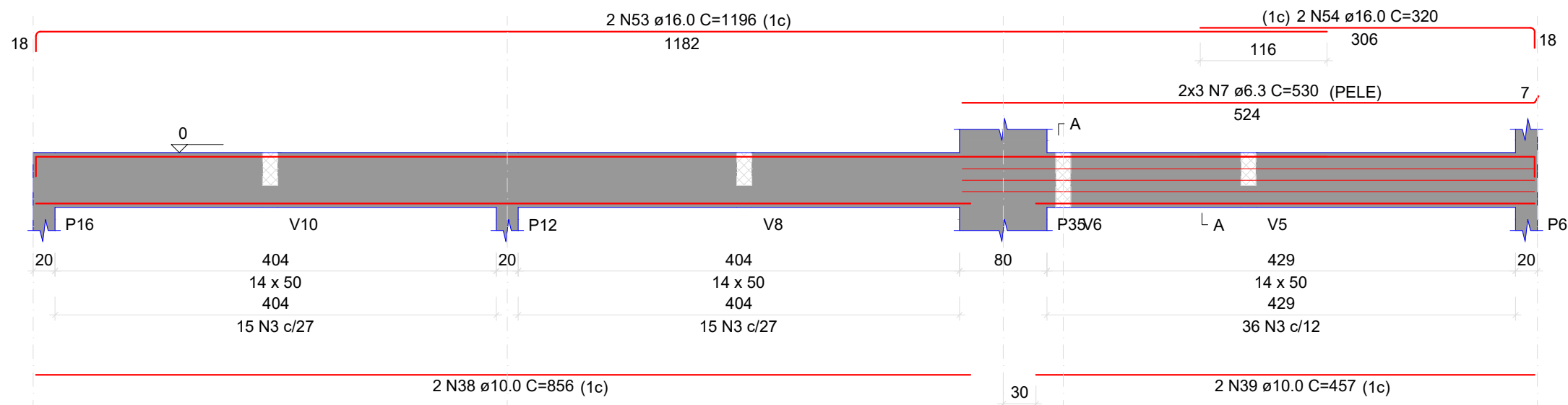
ESC 1:50



SEÇÃO A-A  
ESC 1:25

V21

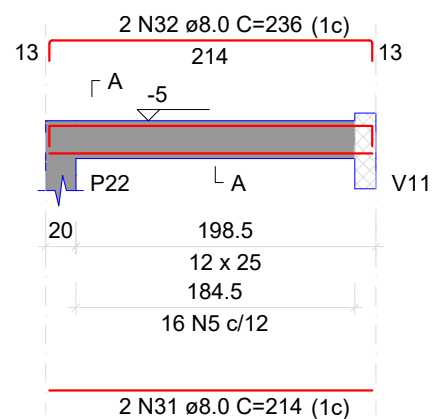
ESC 1:50



SEÇÃO A-A  
ESC 1:25

V22

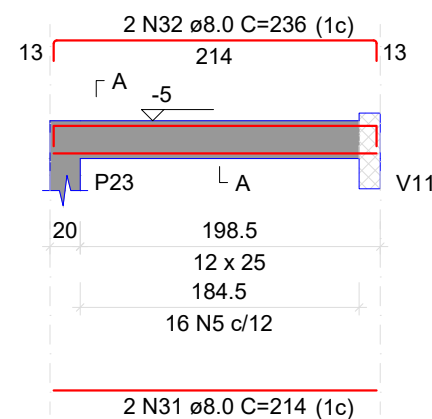
ESC 1:50



SEÇÃO A-A  
ESC 1:25

V23

ESC 1:50



SEÇÃO A-A  
ESC 1:25

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



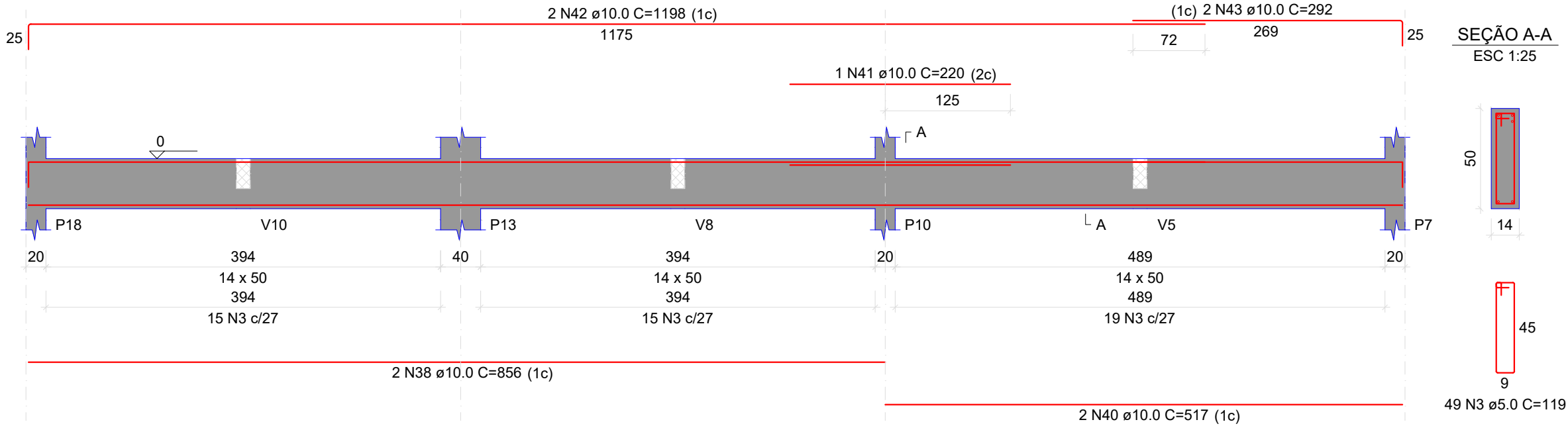
Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Baldrame

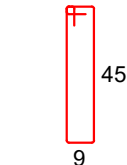
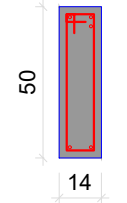
FOLHA:  
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DIREITOS AUTORAIS RESERVADOS

V24  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



49 N3 ø5.0 C=119

RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	124	75	9300
	2	5.0	3	155	465
	3	5.0	282	119	33558
	4	5.0	78	79	6162
	5	5.0	142	65	9230
CA50	6	5.0	4	161	644
	7	6.3	6	530	3180
	8	8.0	4	409	1636
	9	8.0	4	438	1752
	10	8.0	2	416	832
	11	8.0	2	206	412
	12	8.0	2	219	438
	13	8.0	6	550	3300
	14	8.0	6	415	2490
	15	8.0	2	151	302
	16	8.0	2	214	428
	17	8.0	2	558	1116
	18	8.0	2	141	282
	19	8.0	2	152	304
	20	8.0	2	751	1502
	21	8.0	2	773	1546
	22	8.0	4	275	1100
	23	8.0	2	296	592
	24	8.0	2	276	552
	25	8.0	2	297	594
	26	8.0	2	199	398
	27	8.0	2	221	442
	28	8.0	2	239	478
	29	8.0	2	259	518
	30	8.0	2	305	610
	31	8.0	6	214	1284
	32	8.0	6	236	1416
	33	8.0	2	102	204
	34	8.0	2	165	330
	35	8.0	2	217	434
	36	8.0	2	239	478
	37	10.0	4	442	1768
	38	10.0	4	856	3424
	39	10.0	2	457	914
	40	10.0	2	517	1034
	41	10.0	1	220	220
	42	10.0	2	1198	2396
	43	10.0	2	292	584
	44	12.5	1	342	342
	45	12.5	4	584	2336
	46	12.5	2	440	880
	47	12.5	1	297	297
	48	12.5	2	870	1740
	49	12.5	2	531	1062
	50	12.5	2	97	194
	51	12.5	2	739	1478
	52	12.5	2	107	214
	53	16.0	2	1196	2392
	54	16.0	2	320	640
	55	20.0	1	329	329
	56	20.0	2	581	1162
	57	20.0	2	589	1178

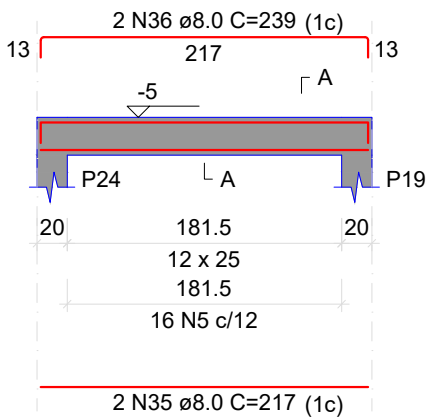
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	31.8	8.6
	8.0	257.7	111.9
	10.0	103.4	70.1
	12.5	85.4	90.5
	16.0	30.3	52.6
	20.0	26.7	72.4
CA60	5.0	593.6	100.6
PESO TOTAL (kg)			
CA50	406.1		
CA60	100.6		

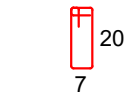
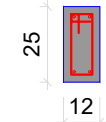
Volume de concreto (C-25) = 5.74 m³

Área de forma = 110.76 m²

V25  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



16 N5 ø5.0 C=65

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

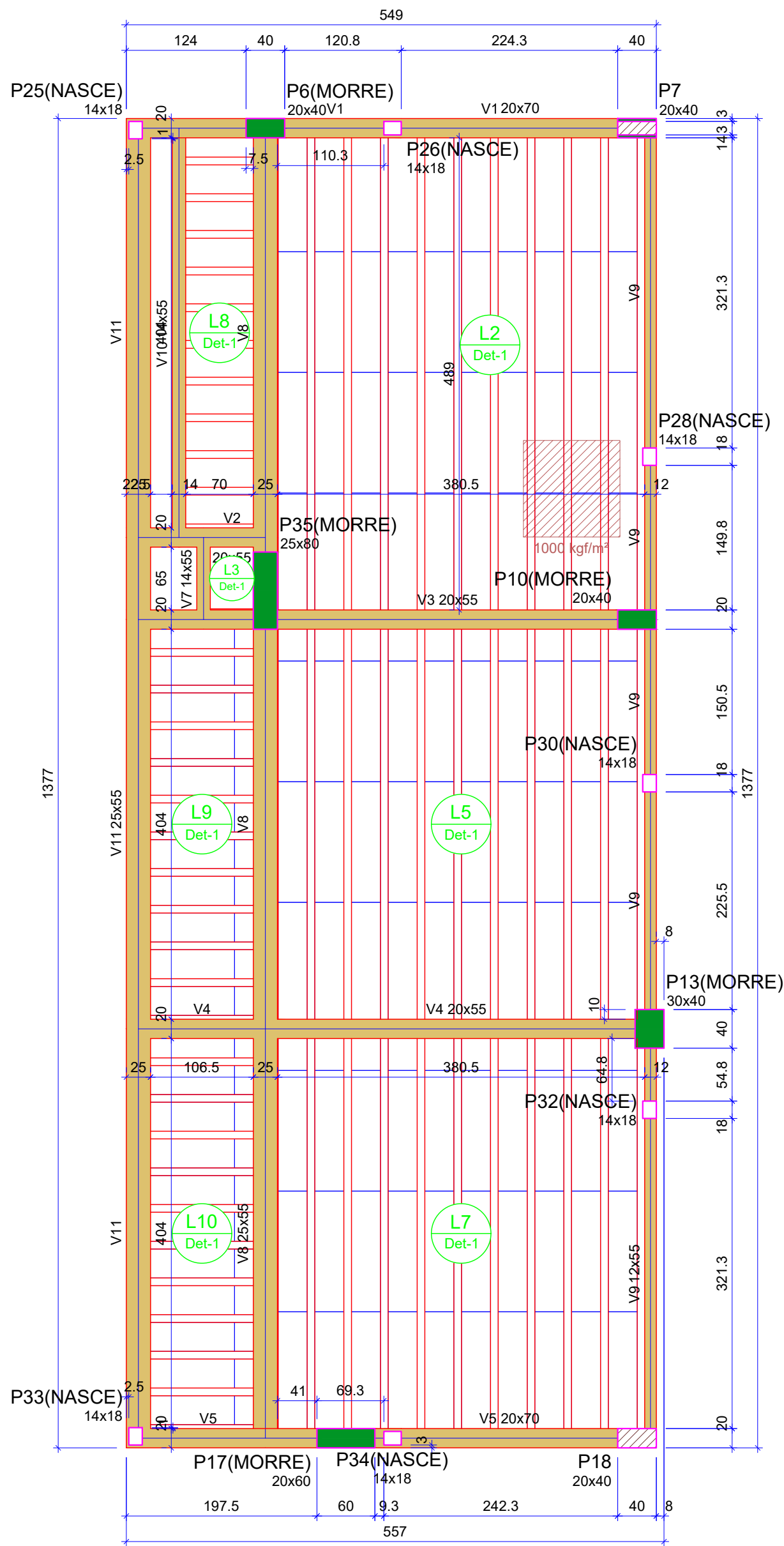


Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Baldrame

FOLHA:  
12 / 23

DIREITOS AUTORAIS RESERVADOS



Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	20x70	0	340
V2	20x55	0	340
V3	20x55	0	340
V4	20x55	0	340
V5	20x70	0	340
V7	14x55	0	340
V8	25x55	0	340
V9	12x55	0	340
V10	14x55	0	340
V11	25x55	0	340

Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	EPS Unidirecional	B8/30/125	8	30	125	164

Lajes							
Nome	Tipo	Dados			Sobrecarga (kgf/m²)		
		Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental
L2	Pré-moldada	12	0	340	143	202	300
L3	Pré-moldada	12	0	340	143	202	300
L5	Pré-moldada	12	0	340	143	202	300
L7	Pré-moldada	12	0	340	143	202	300
L8	Pré-moldada	12	0	340	143	203	300
L9	Pré-moldada	12	0	340	143	203	300
L10	Pré-moldada	12	0	340	143	203	300

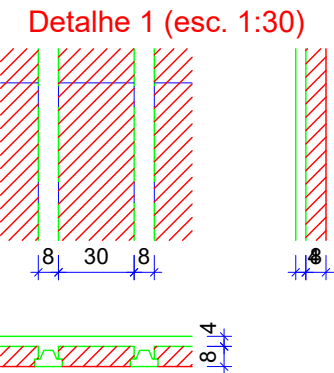
Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P6	20x40	0	340
P7	20x40	0	340
P10	20x40	0	340
P13	30x40	0	340
P17	20x60	0	340
P18	20x40	0	340
P25	14x18	0	340
P26	14x18	0	340
P28	14x18	0	340
P30	14x18	0	340
P32	14x18	0	340
P33	14x18	0	340
P34	14x18	0	340
P35	25x80	0	340

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

Legenda das vigas e paredes	
	Viga



## Forma do pavimento Cobertura (Nível 340)

escala 1:50

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



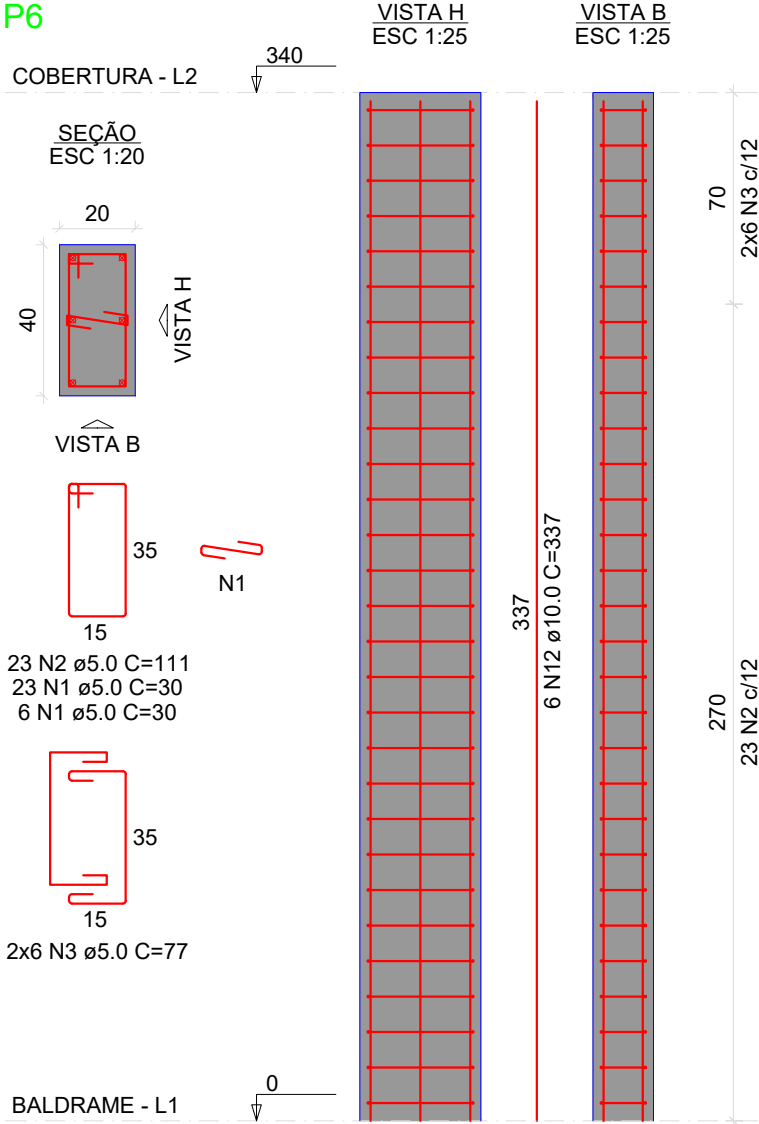
Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Forma Cobertura

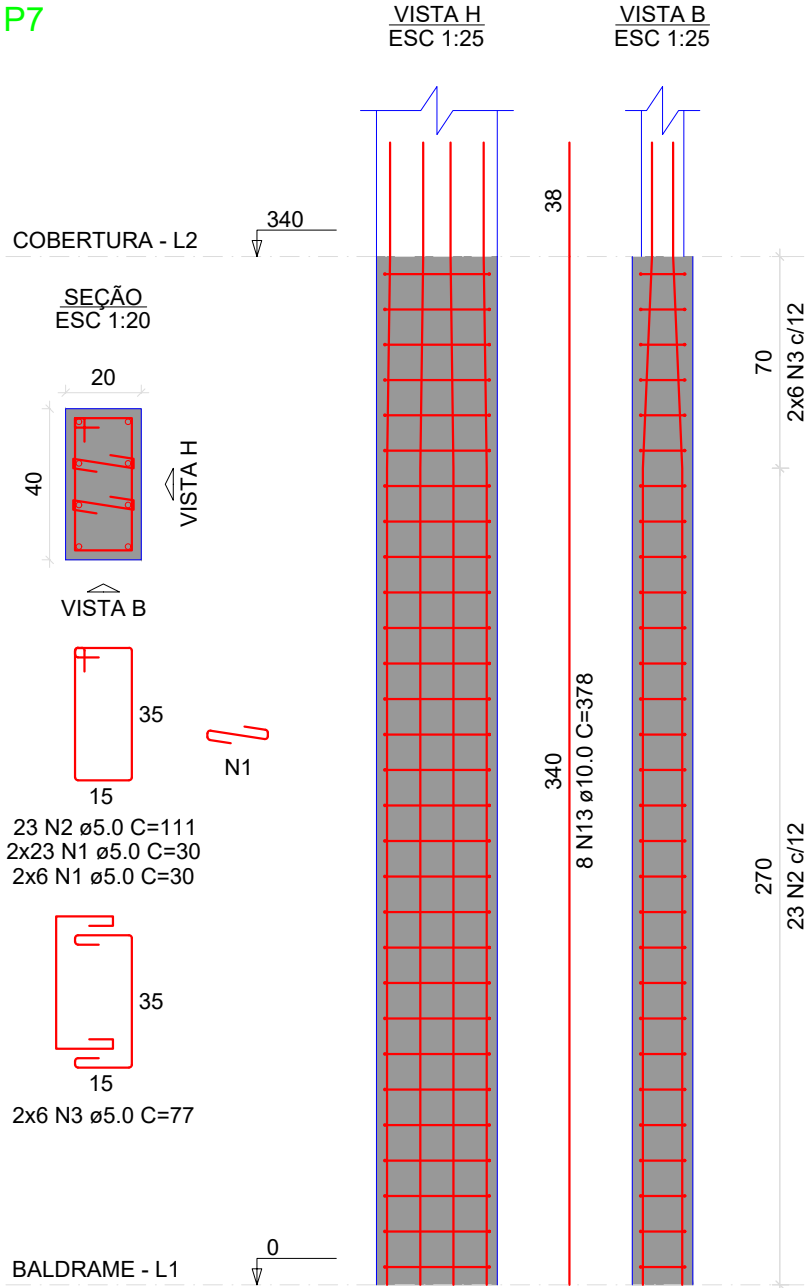
FOLHA:  
13 / 23

DIREITOS AUTORAIS RESERVADOS

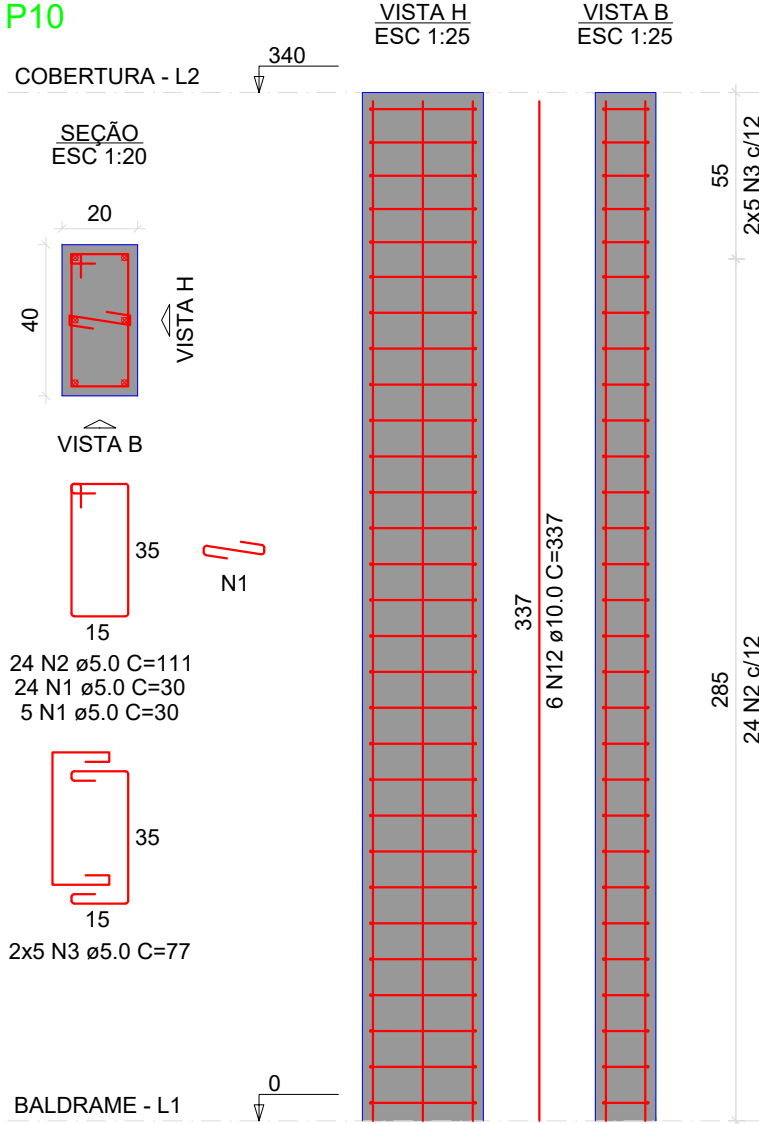
P6



P7



P10



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



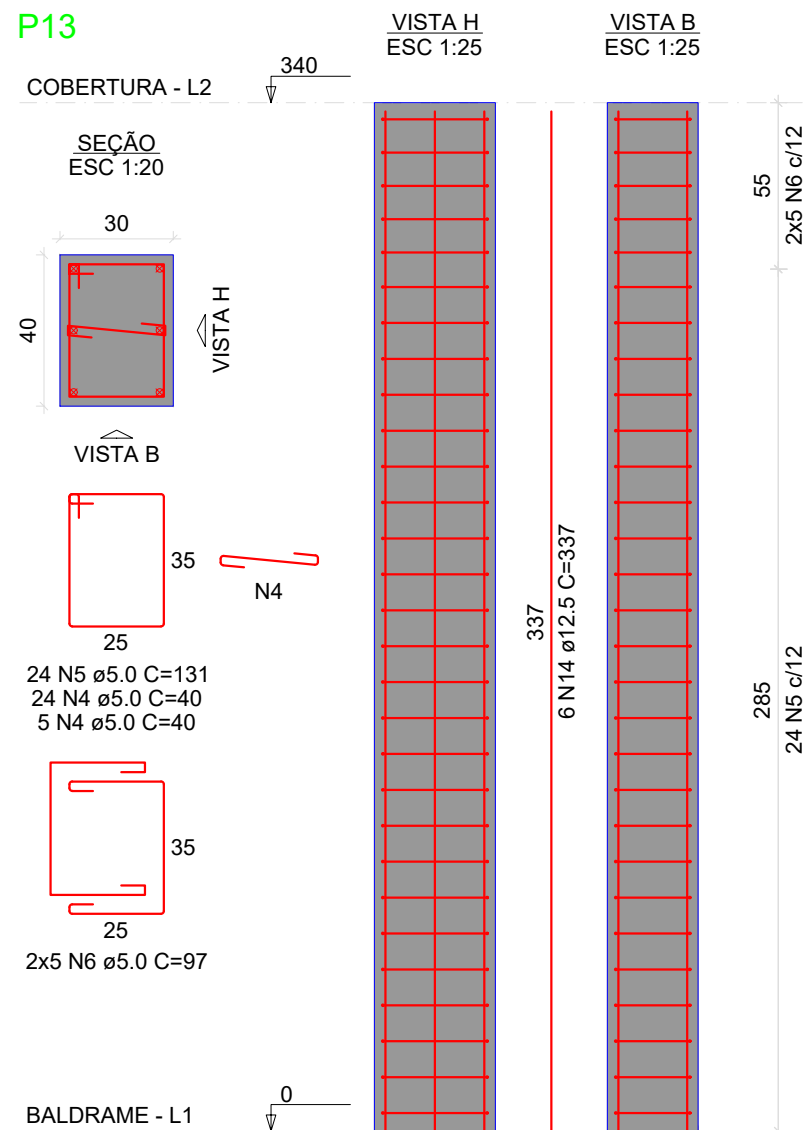
Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Pilares Cobertura

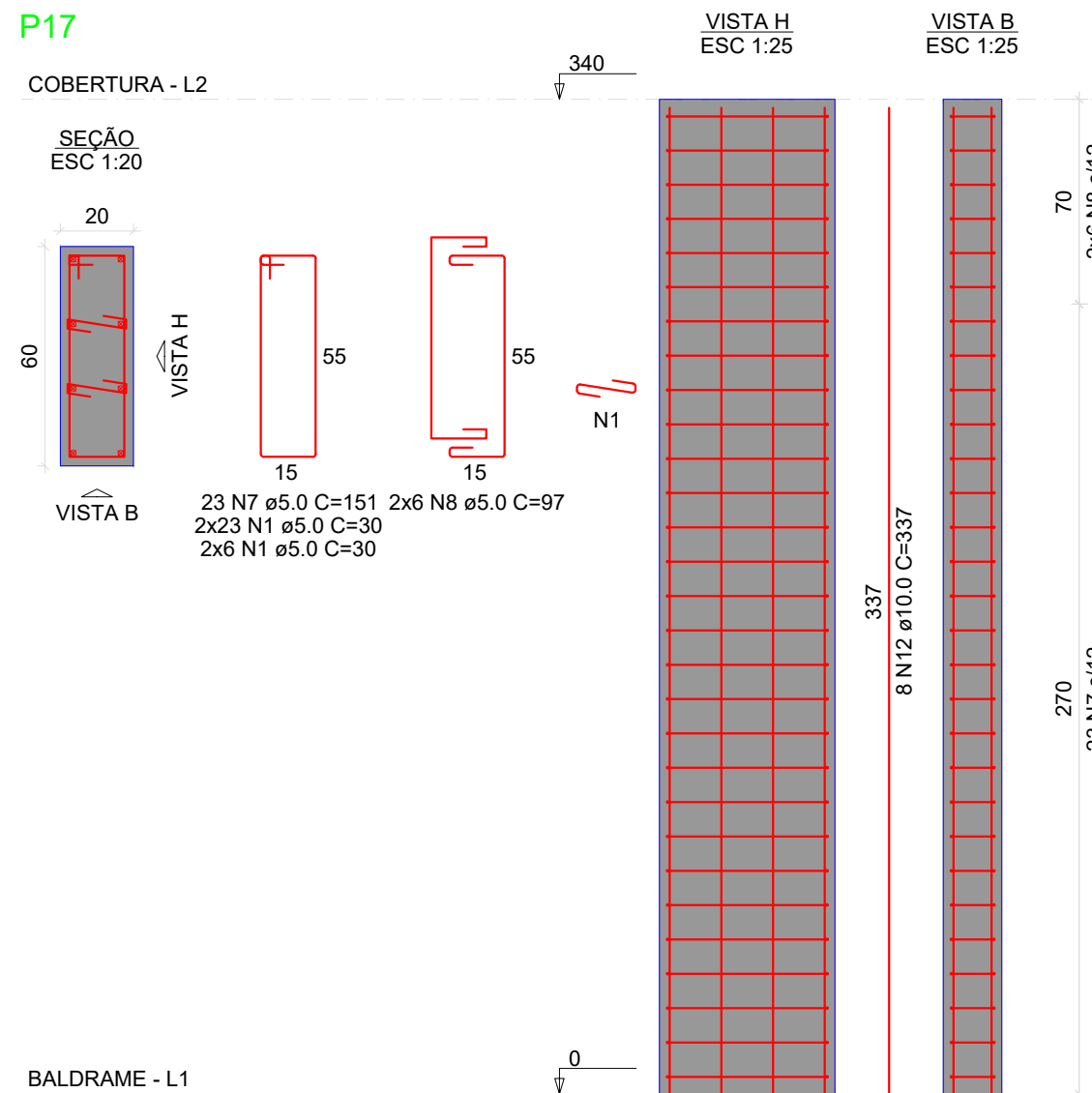
FOLHA:  
14 / 23

DIREITOS AUTORAIS RESERVADOS

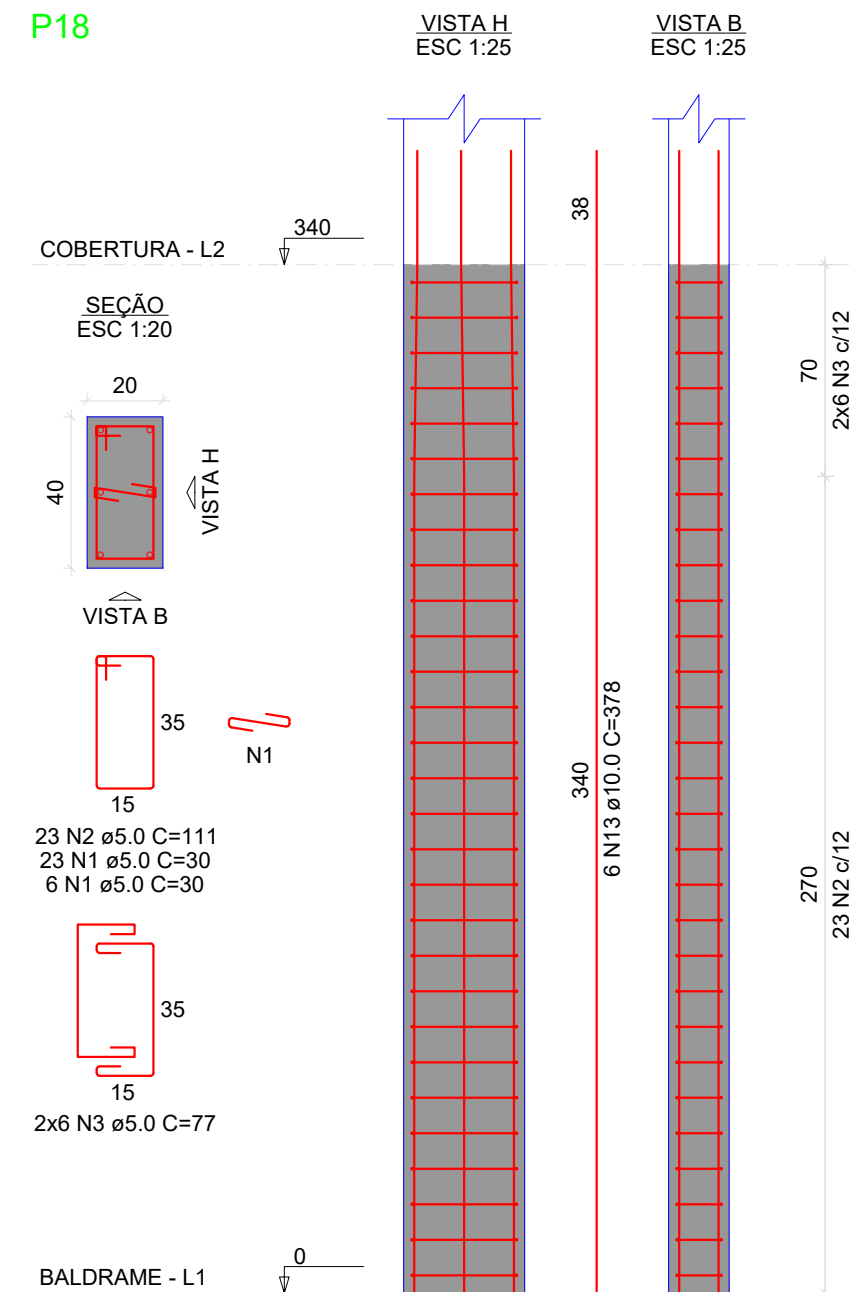
P13



P17



P18



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Pilares Cobertura

FOLHA:  
15 / 23

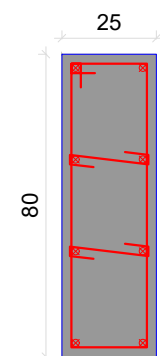
DIREITOS AUTORAIS RESERVADOS



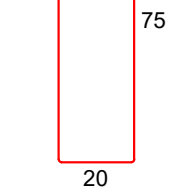
P35

COBERTURA - L2

SEÇÃO  
ESC 1:20



VISTA H

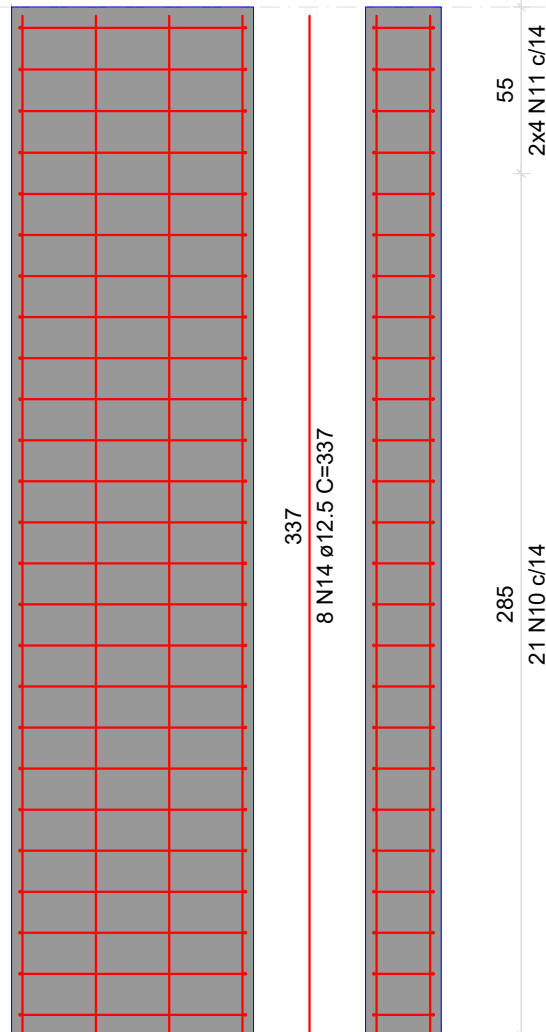


21 N10 ø5.0 C=2012x4 N11 ø5.0 C=127  
2x21 N9 ø5.0 C=35  
2x4 N9 ø5.0 C=35

VISTA B

VISTA H  
ESC 1:25

VISTA B  
ESC 1:25



BALDRAME - L1

### RELAÇÃO DO AÇO

P6  
P13  
P35

P7  
P17

P10  
P18

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	203	30	6090
	2	5.0	93	111	10323
	3	5.0	46	77	3542
	4	5.0	29	40	1160
	5	5.0	24	131	3144
	6	5.0	10	97	970
	7	5.0	23	151	3473
	8	5.0	12	97	1164
	9	5.0	50	35	1750
	10	5.0	21	201	4221
	11	5.0	8	127	1016
CA50	12	10.0	20	337	6740
	13	10.0	14	378	5292
	14	12.5	14	337	4718

### RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	120.3	81.6
	12.5	47.2	50
CA60	5.0	368.5	62.5
PESO TOTAL (kg)			
CA50	131.6		
CA60	62.5		

Volume de concreto (C-25) = 2.58 m³

Área de forma = 33.66 m²

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

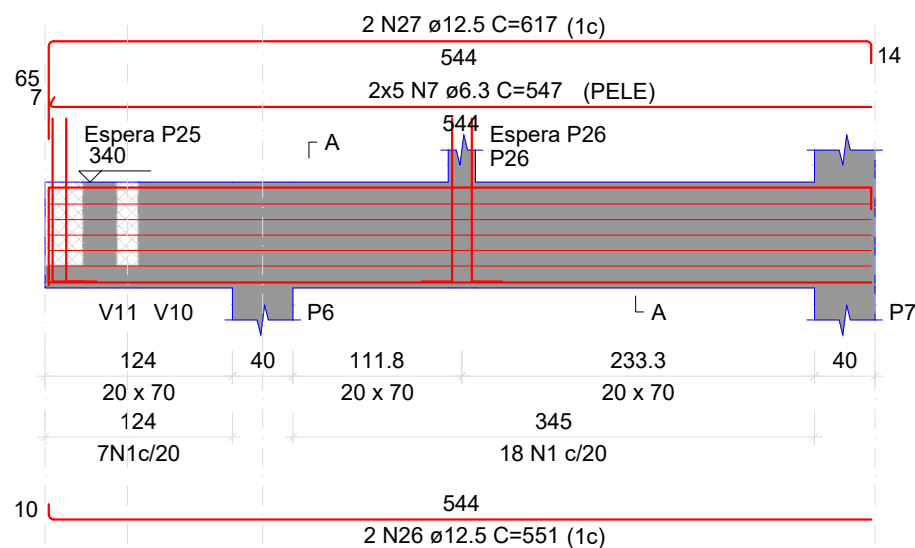
DESCRIÇÃO:  
Pilares Cobertura

FOLHA:  
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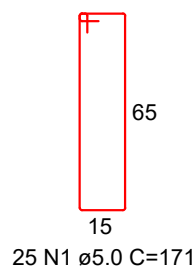
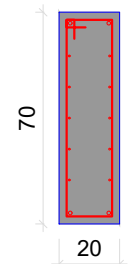
DIREITOS AUTORAIS RESERVADOS

V1

ESC 1:50

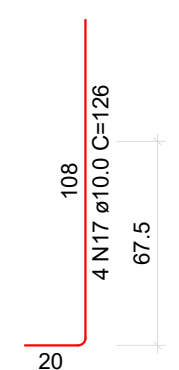


SEÇÃO A-A  
ESC 1:25



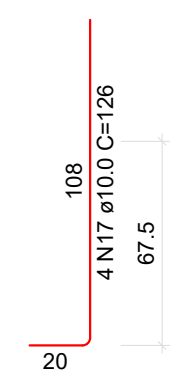
25 N1 ø5.0 C=171

ESPERA P25  
ESC 1:25



6 N2 ø5.0 c/12 C=54

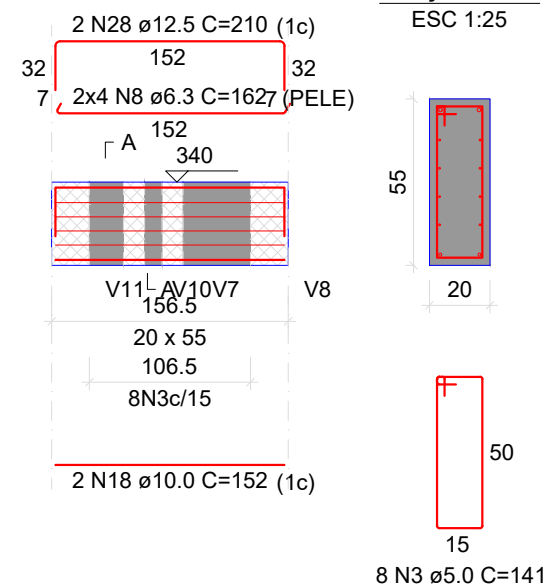
ESPERA P26  
ESC 1:25



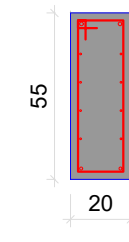
6 N2 ø5.0 c/12 C=54

V2

ESC 1:50



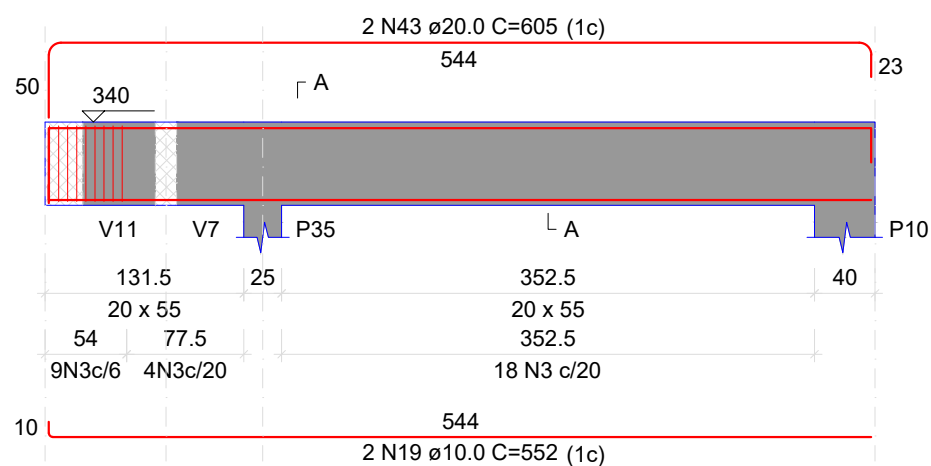
SEÇÃO A-A  
ESC 1:25



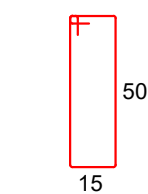
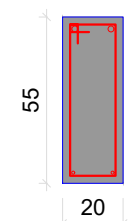
8 N3 ø5.0 C=141

V3

ESC 1:50



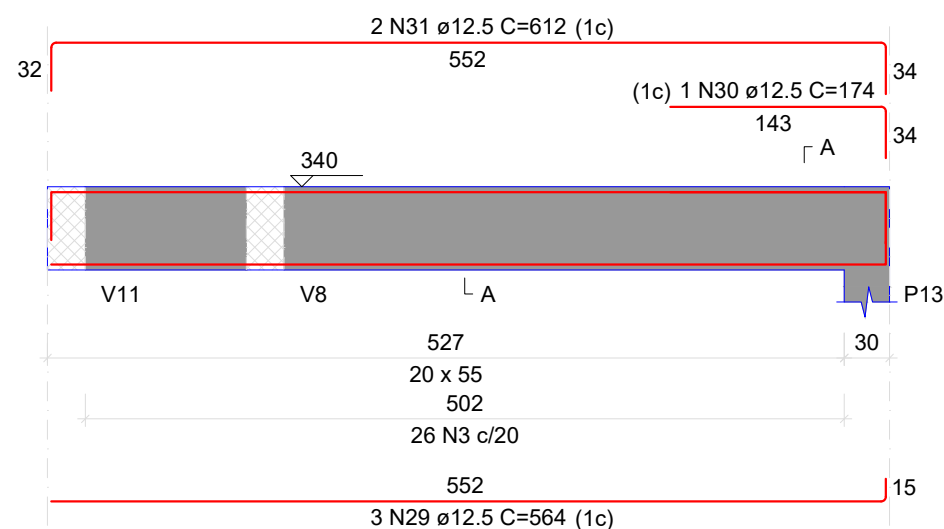
SEÇÃO A-A  
ESC 1:25



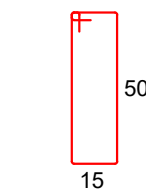
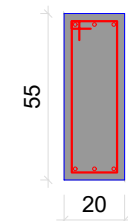
31 N3 ø5.0 C=141

V4

ESC 1:50



SEÇÃO A-A  
ESC 1:25



26 N3 ø5.0 C=141

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Cobertura

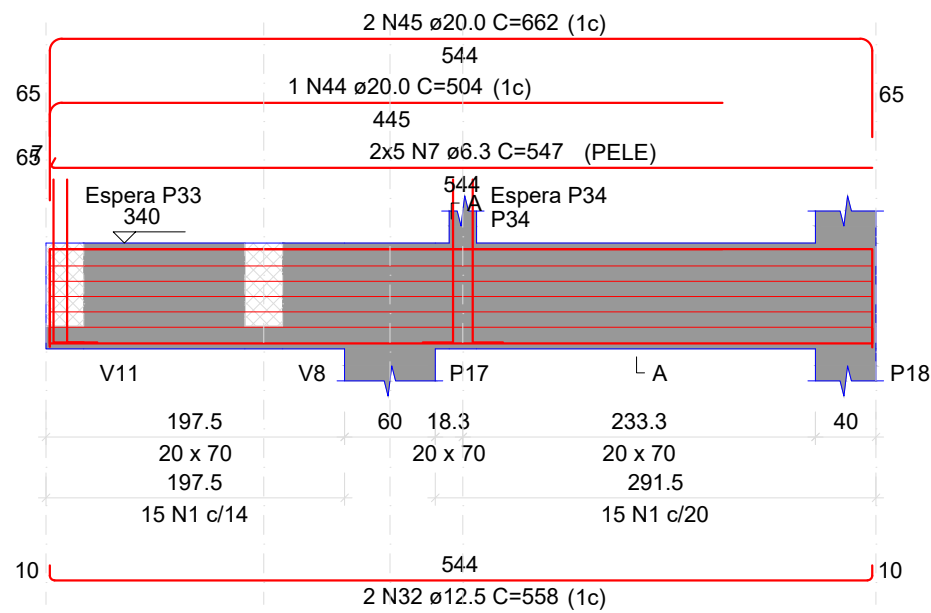
FOLHA:  
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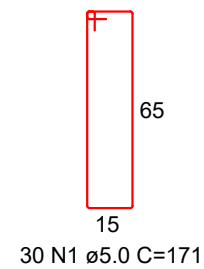
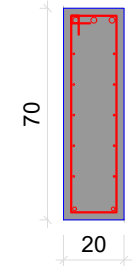
DIREITOS AUTORAIS RESERVADOS

V5

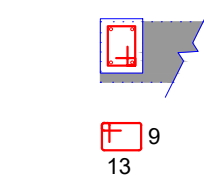
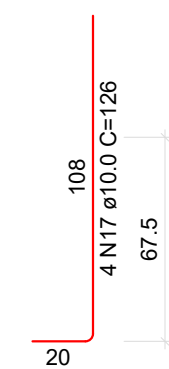
ESC 1:50



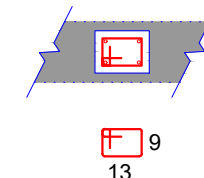
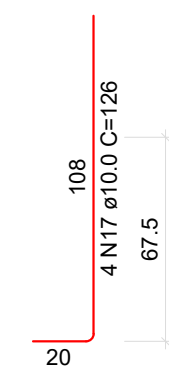
SEÇÃO A-A  
ESC 1:25



ESPERA P33  
ESC 1:25

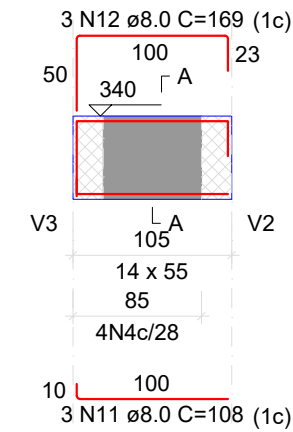


ESPERA P34  
ESC 1:25

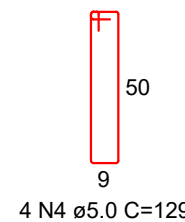
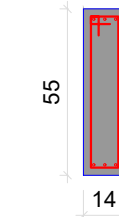


V7

ESC 1:50

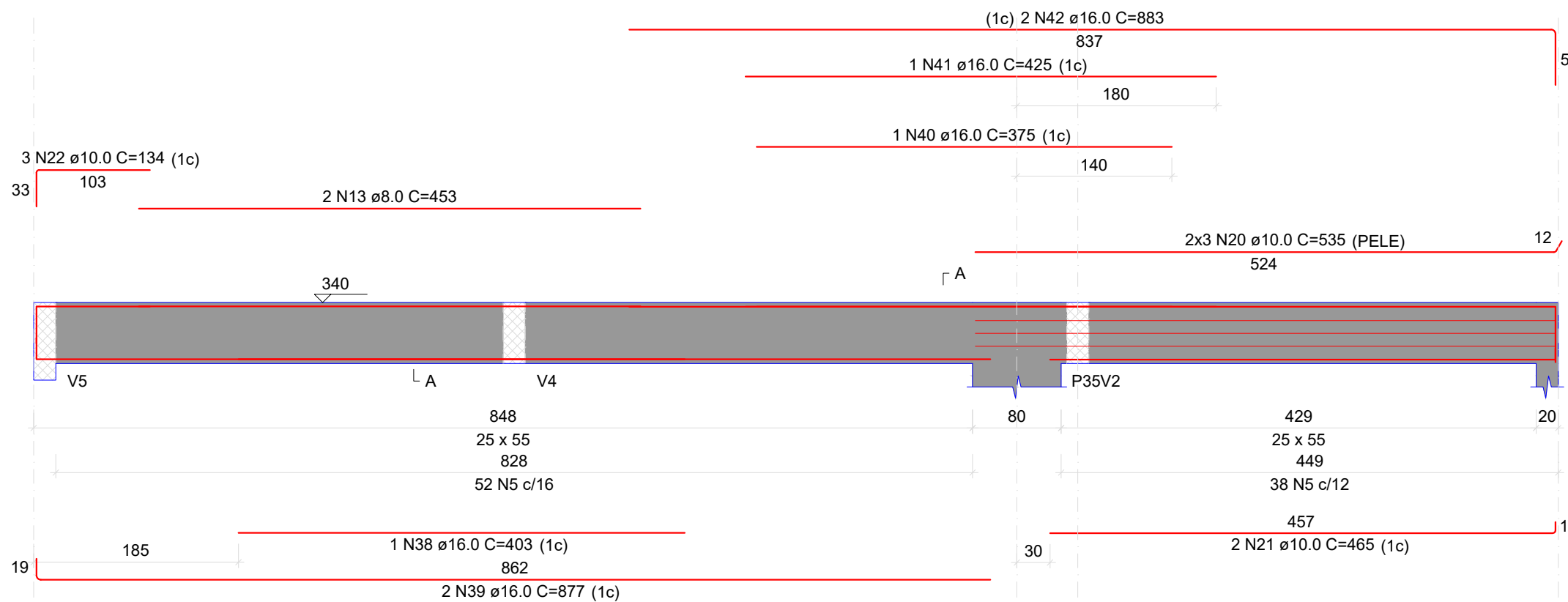


SEÇÃO A-A  
ESC 1:25

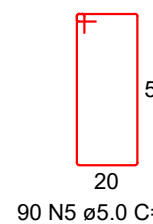
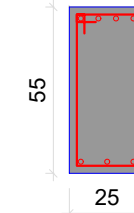


V8

ESC 1:50



SEÇÃO A-A  
ESC 1:25



FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Cobertura

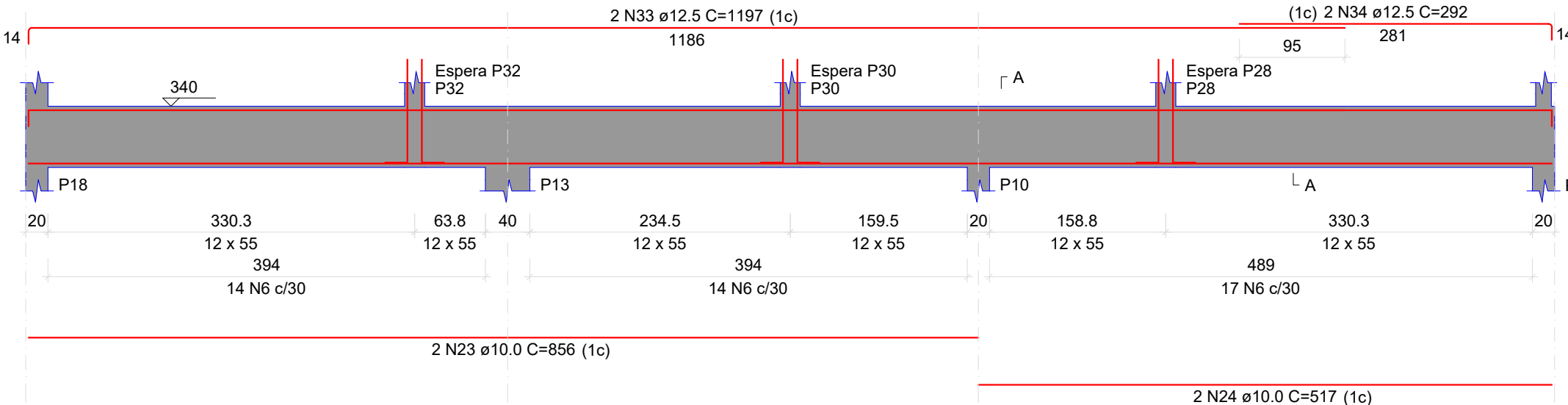
FOLHA:  
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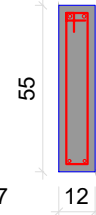
DIREITOS AUTORAIS RESERVADOS

V9

ESC 1:50

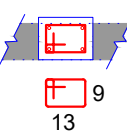


SEÇÃO A-A  
ESC 1:25



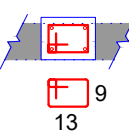
45 N6  $\phi$ 5.0 C=125

ESPERA P32  
ESC 1:25



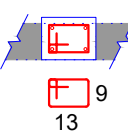
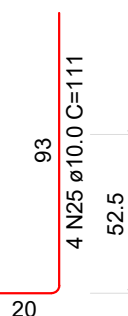
5 N2  $\phi$ 5.0 c/12 C=55

ESPERA P30  
ESC 1:25



5 N2  $\phi$ 5.0 c/12 C=55

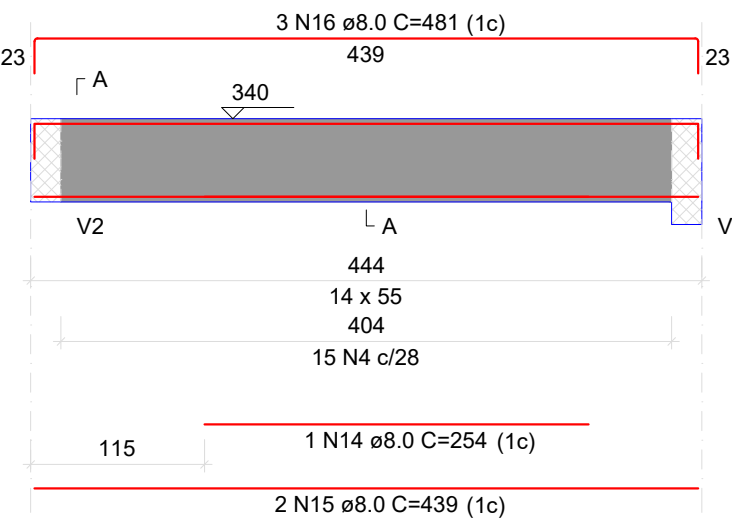
ESPERA P28  
ESC 1:25



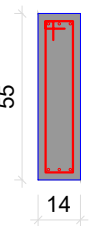
5 N2  $\phi$ 5.0 c/12 C=54

V10

ESC 1:50



SEÇÃO A-A  
ESC 1:25



15 N4  $\phi$ 5.0 C=129

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

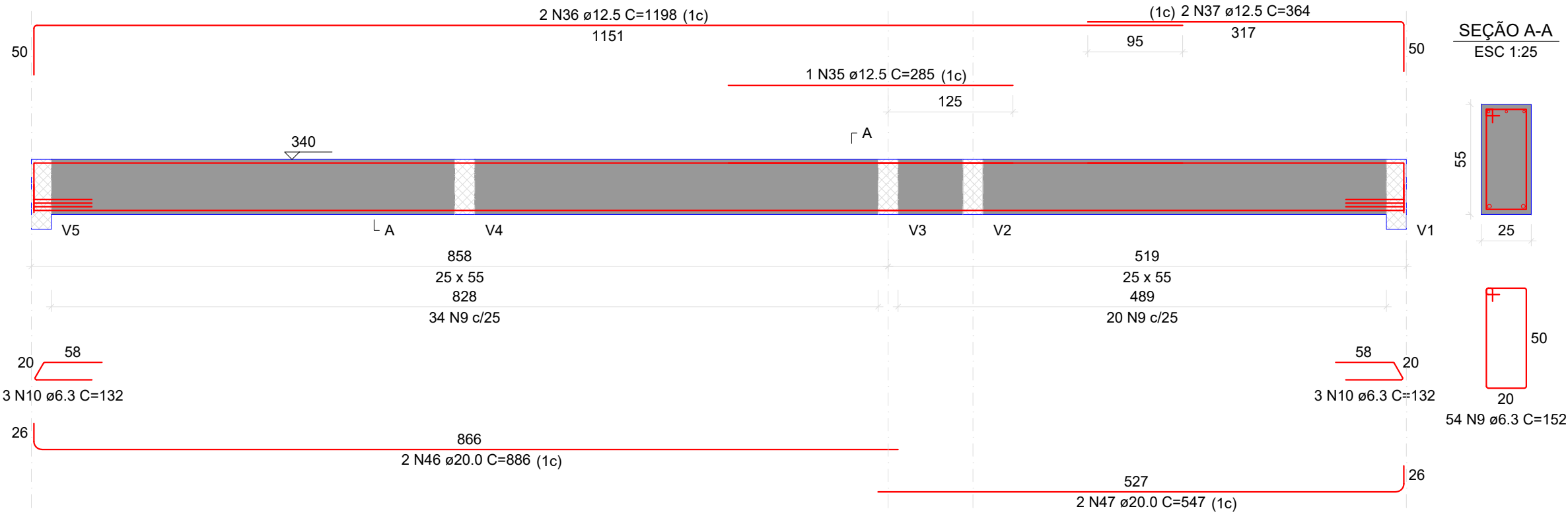
DESCRIÇÃO:  
Vigas Cobertura

FOLHA:  
19 / 23

DIREITOS AUTORAIS RESERVADOS

V11

ESC 1:50



SEÇÃO A-A  
ESC 1:25

RELAÇÃO DO AÇO

V1		V2		V3	
V4		V5		V7	
V8		V9		V10	
V11					
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	55	171	9405
	2	5.0	39	54	2106
	3	5.0	65	141	9165
	4	5.0	19	129	2451
	5	5.0	90	151	13590
	6	5.0	45	125	5625
	7	6.3	20	547	10940
	8	6.3	8	162	1296
	9	6.3	54	152	8208
	10	6.3	6	132	792
CA50	11	8.0	3	108	324
	12	8.0	3	169	507
	13	8.0	2	453	906
	14	8.0	1	254	254
	15	8.0	2	439	878
	16	8.0	3	481	1443
	17	10.0	16	126	2016
	18	10.0	2	152	304
	19	10.0	2	552	1104
	20	10.0	6	535	3210
	21	10.0	2	465	930
	22	10.0	3	134	402
	23	10.0	2	856	1712
	24	10.0	2	517	1034
	25	10.0	12	111	1332
	26	12.5	2	551	1102
	27	12.5	2	617	1234
	28	12.5	2	210	420
	29	12.5	3	564	1692
	30	12.5	1	174	174
	31	12.5	2	612	1224
	32	12.5	2	558	1116
	33	12.5	2	1197	2394
	34	12.5	2	292	584
	35	12.5	1	285	285
	36	12.5	2	1198	2396
	37	12.5	2	364	728
	38	16.0	1	403	403
	39	16.0	2	877	1754
	40	16.0	1	375	375
	41	16.0	1	425	425
	42	16.0	2	883	1766
	43	20.0	2	605	1210
	44	20.0	1	504	504
	45	20.0	2	662	1324
	46	20.0	2	886	1772
	47	20.0	2	547	1094

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	212.4	57.2
	8.0	43.1	18.7
	10.0	120.4	81.7
	12.5	133.5	141.5
	16.0	47.2	82
	20.0	59	160.2
CA60	5.0	423.6	71.8
PESO TOTAL (kg)			
CA50	541.2		
CA60	71.8		

Volume de concreto (C-25) = 7.33 m³  
Área de forma = 94.77 m²

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS

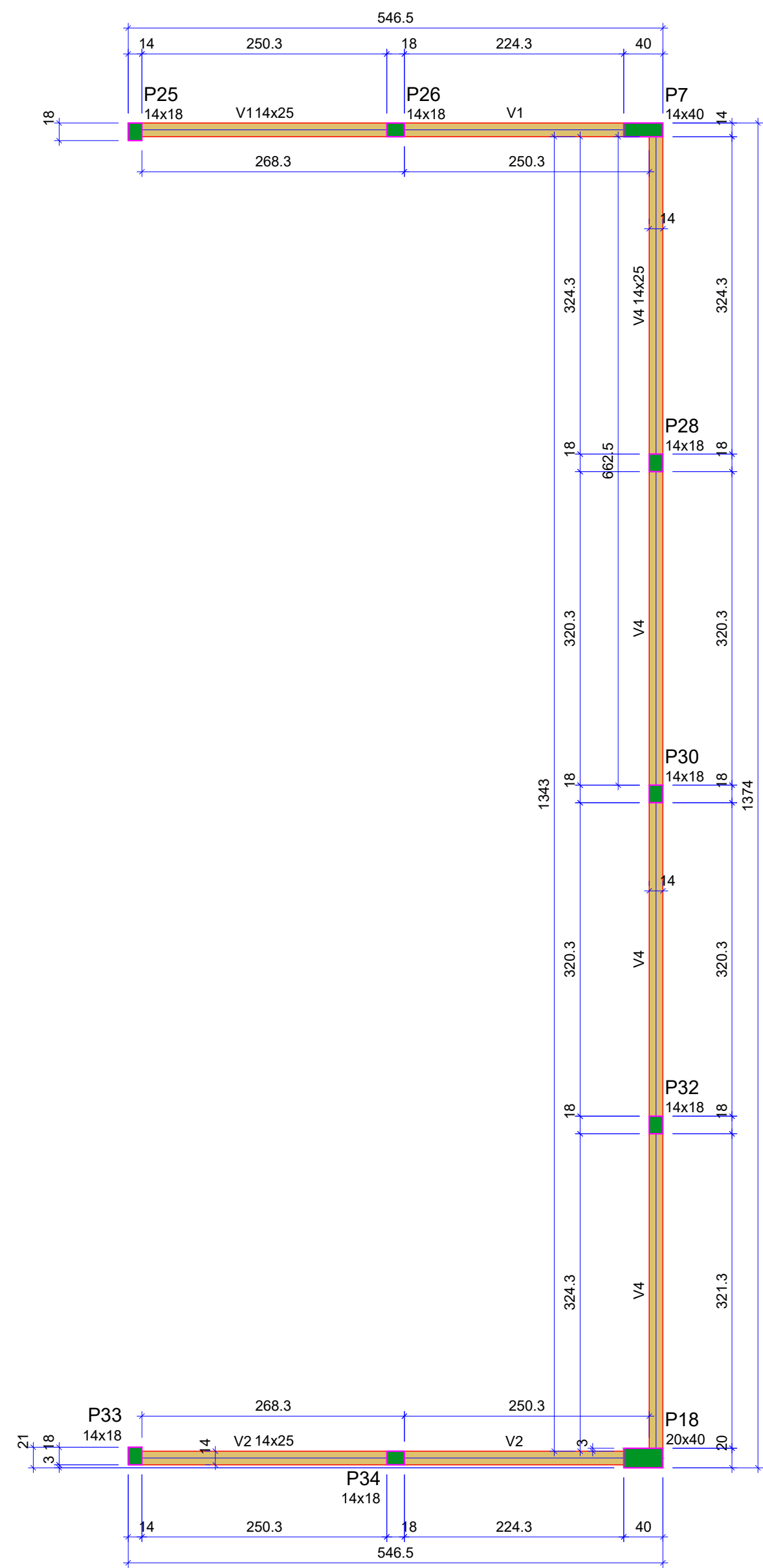


Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Cobertura

FOLHA:  
20 / 23

DIREITOS AUTORAIS RESERVADOS



Forma do pavimento platibanda  
escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x25	0	485
V2	14x25	0	485
V4	14x25	0	485

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

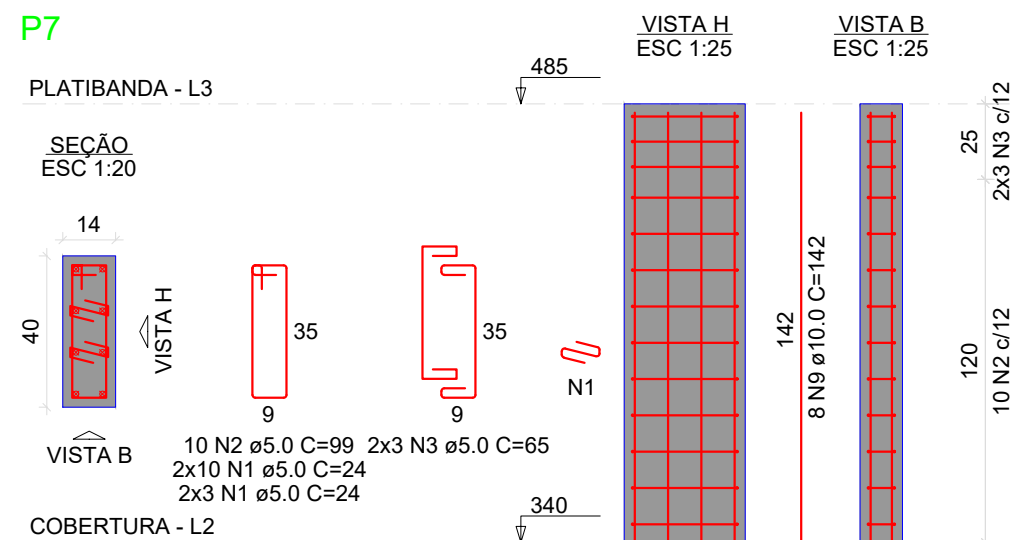
Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P7	14x40	0	485
P18	20x40	0	485
P25	14x18	0	485
P26	14x18	0	485
P28	14x18	0	485
P30	14x18	0	485
P32	14x18	0	485
P33	14x18	0	485
P34	14x18	0	485

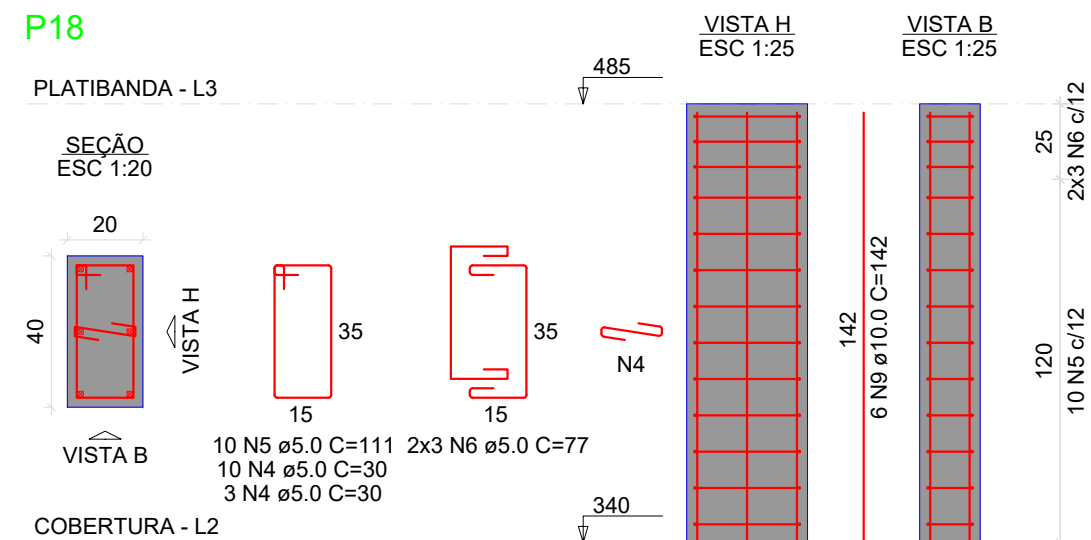
Legenda dos pilares	
	Pilar que morre

Legenda das vigas e paredes	
	Viga

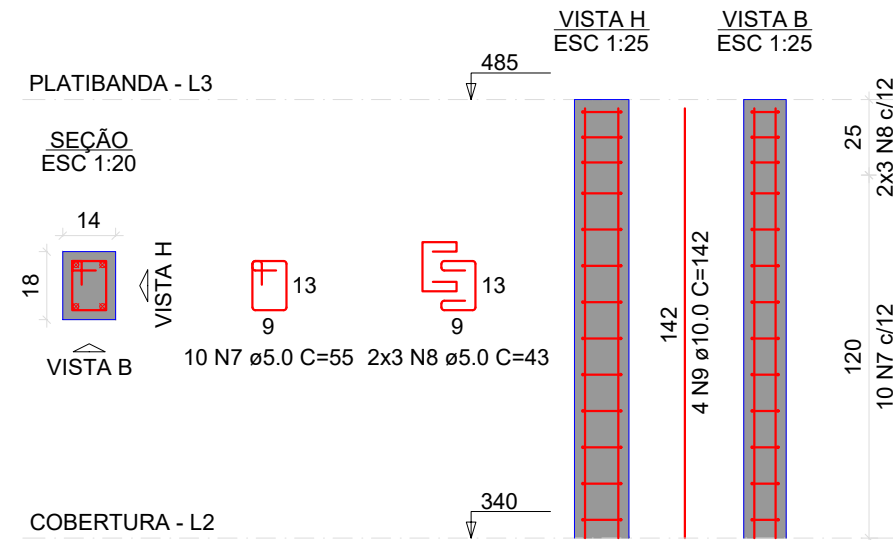
P7



P18



P25=P26=P28=P30=P32=P33=P34



#### RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	26	24	624
	2	5.0	10	99	990
	3	5.0	6	65	390
	4	5.0	13	30	390
	5	5.0	10	111	1110
	6	5.0	6	77	462
	7	5.0	70	55	3850
	8	5.0	42	43	1806
CA50	9	10.0	42	142	5964

#### RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	59.6	40.4
CA60	5.0	96.2	16.3
PESO TOTAL (kg)			
CA50	40.4		
CA60	16.3		

Volume de concreto (C-25) = 0.45 m³  
Área de forma = 9.80 m²

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

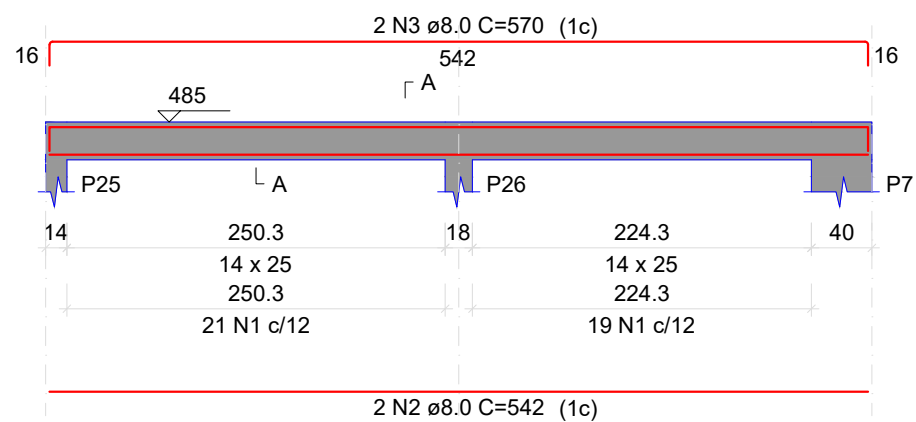
DESCRIÇÃO:  
Pilares Platibanda

FOLHA:  
22 / 23

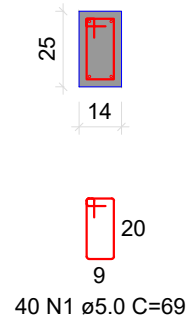
DIREITOS AUTORAIS RESERVADOS



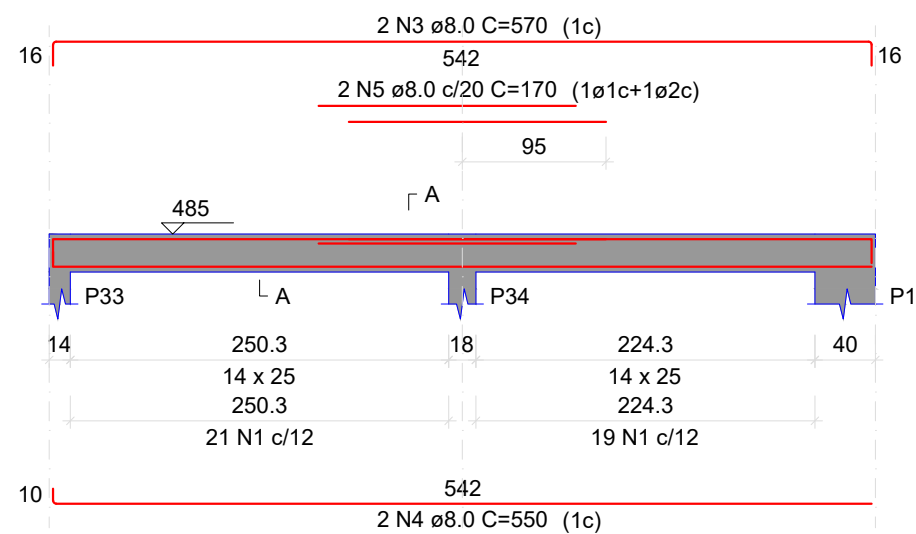
V1  
ESC 1:50



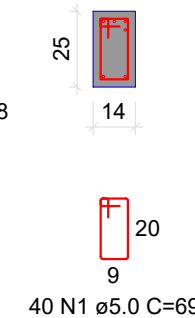
SEÇÃO A-A  
ESC 1:25



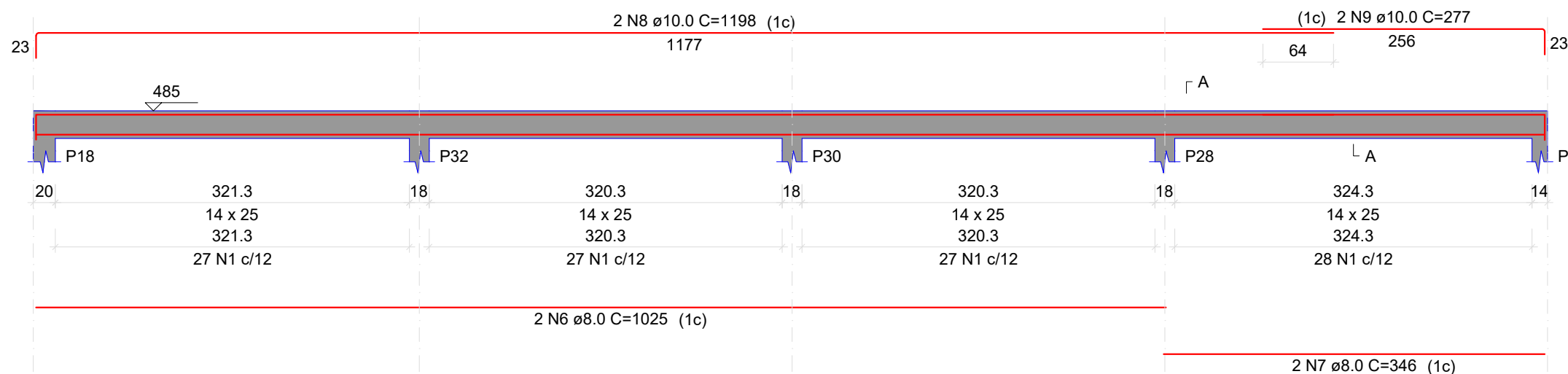
V2  
ESC 1:50



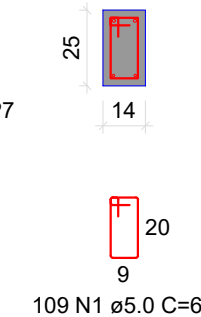
SEÇÃO A-A  
ESC 1:25



V4  
ESC 1:50



SEÇÃO A-A  
ESC 1:25



#### RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	189	69	13041
CA50	2	8.0	2	542	1084
	3	8.0	4	570	2280
	4	8.0	2	550	1100
	5	8.0	2	170	340
	6	8.0	2	1025	2050
	7	8.0	2	346	692
	8	10.0	2	1198	2396
	9	10.0	2	277	554

#### RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	75.5	32.8
CA60	10.0	29.5	20
	5.0	130.4	22.1
PESO TOTAL (kg)			
CA50	52.8		
CA60	22.1		

Volume de concreto (C-25) = 0.78 m³  
Área de forma = 15.79 m²

FUNDAÇÃO HOSPITALAR  
SANTA TEREZINHA DE ERECHIM  
Rua Itália, 919 - Centro - Erechim - RS



Projeto Estrutural - Cozinha

DESCRIÇÃO:  
Vigas Platibanda

FOLHA:  
23 / 23

DIREITOS AUTORAIS RESERVADOS