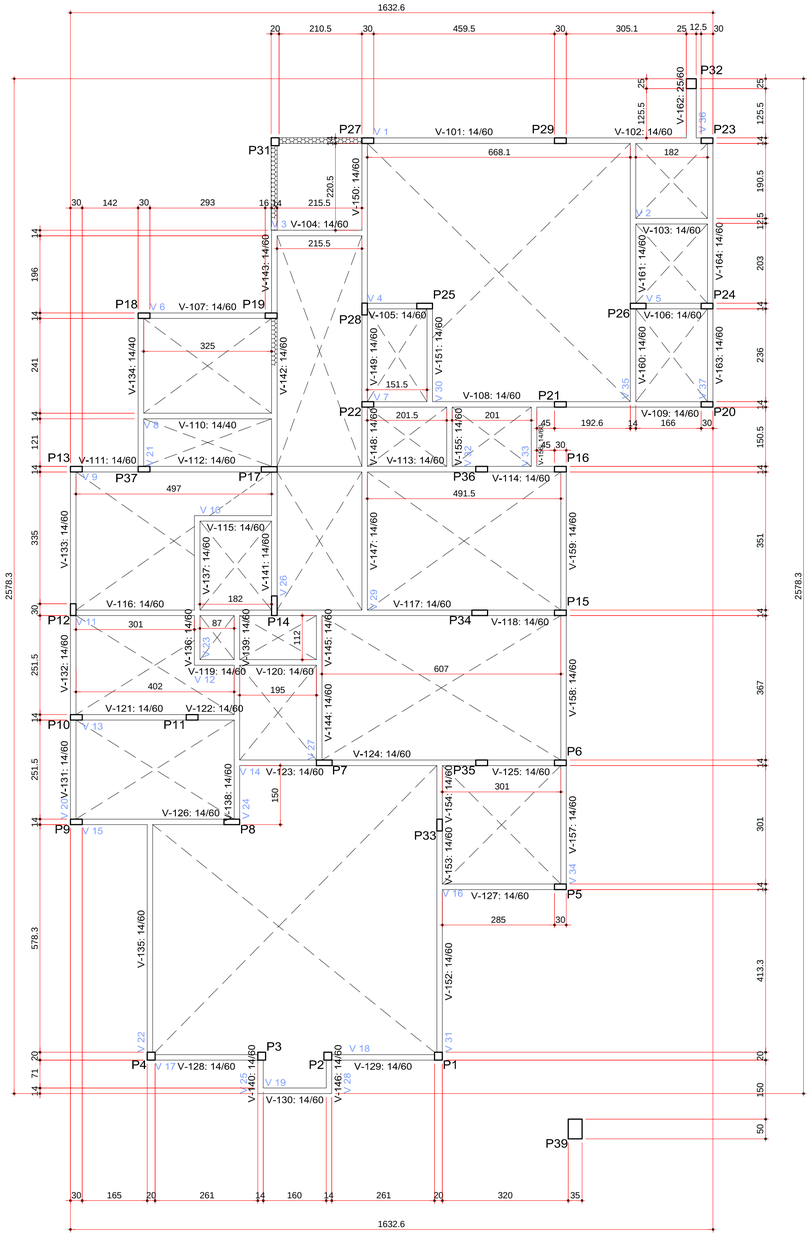
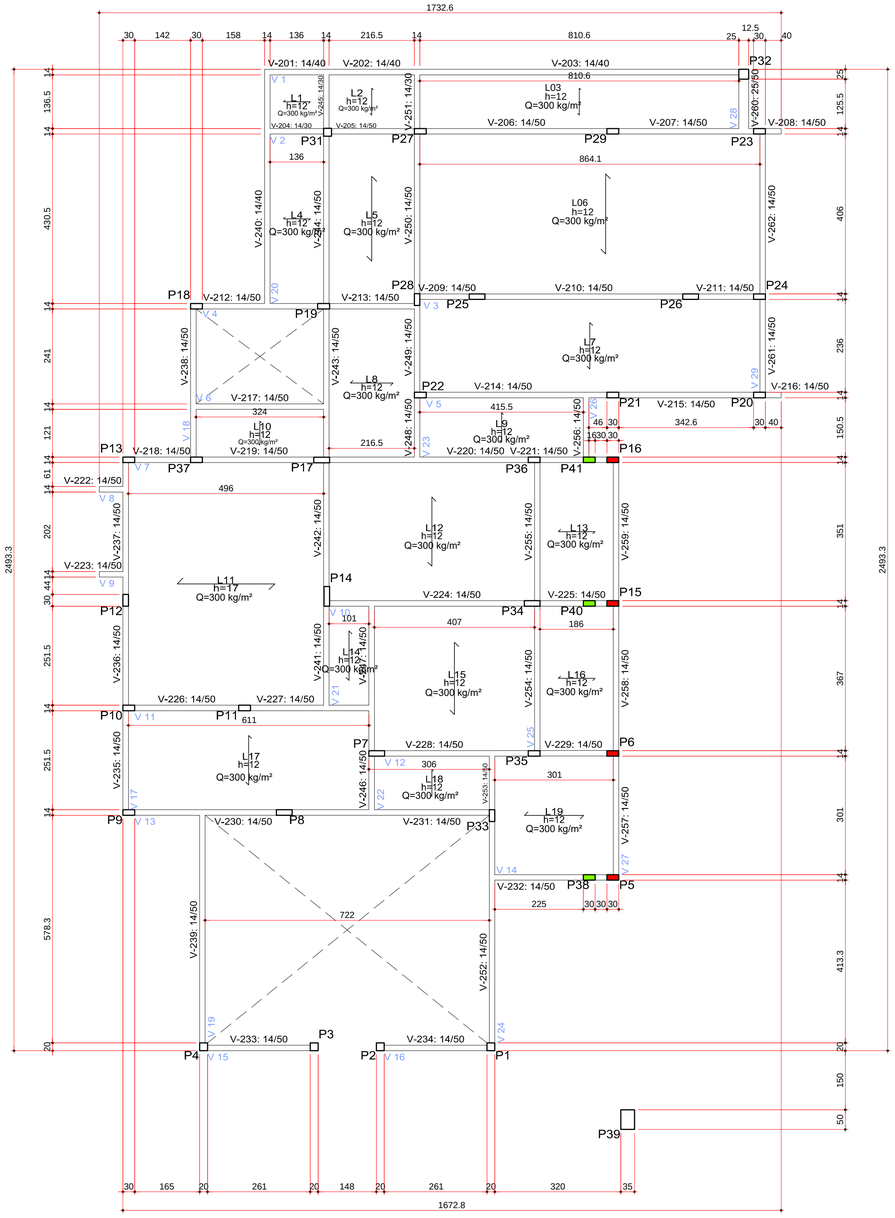


01 PLANTA DE FORMA BALDRAME - TÉRREO

01/75



02 PLANTA DE FORMA 1 PAVIMENTO

01/75

LEGENDA

NOTAS

1) Todas medidas estão em centímetros.
2) Qualquer alteração que for necessária neste projeto, deverá ser comunicada ao responsável técnico.
3) A execução da estrutura deverá obedecer as prescrições da NBR-14931.
4) A resistência característica deste projeto será de: 30 MPA.
5) Sobrecarga no pavimento: 300 Kg/m²
6) Módulo de elasticidade estimado do concreto: 30.67 GPa
7) Deverá ser exigido ART do responsável técnico da laje pré-moldada.
8) O contramento mínimo dos elementos estruturais (pilar; viga e laje) é de 2,5 cm
9) Os materiais (concreto, aço) relacionados a laje pré-moldada não está incluso no quantitativo informado.

PILARES
- Pilar que nasce
- Pilar que segue
- Pilar que morre

VIGAS
- Viga Simples
- Arranque de escada

LAJES
- Laje Pré-moldada Z = Número sequencial; YY = Espessura da laje.

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:

ESTRUTURAL

EMITENTE:

BM Incorporadora & Construtora Ltda - EPP
CNPJ: 28.861.517/0001-94
Rua André Lanka - Ekquina - Urubici-SC - CEP 88.650-000
E-mail murillobrunes@gmail.com
Fone (048) 9 9122-4298 Vivo
Fone (048) 9 9635-9062 Tim
Eng. Civil: MURILLO BECKHAUSER NUNES - CREA-SC 152161-1
Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE URUBICI**

DATA: 17/01/2022

DESENHO: MATHEUS R.

OBRA: **DESTACAMENTO MILITAR**
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

CÓD. CLIENTE:

CONTEÚDO: **PLANTA DE FORMA BALDRAME - TÉRREO**
PLANTA DE FORMA 1 PAVIMENTO

DIM. PRANCHA: A1

ESCALA: **1:75**

ÁREA: **557,83** m²

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 01/08**

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.

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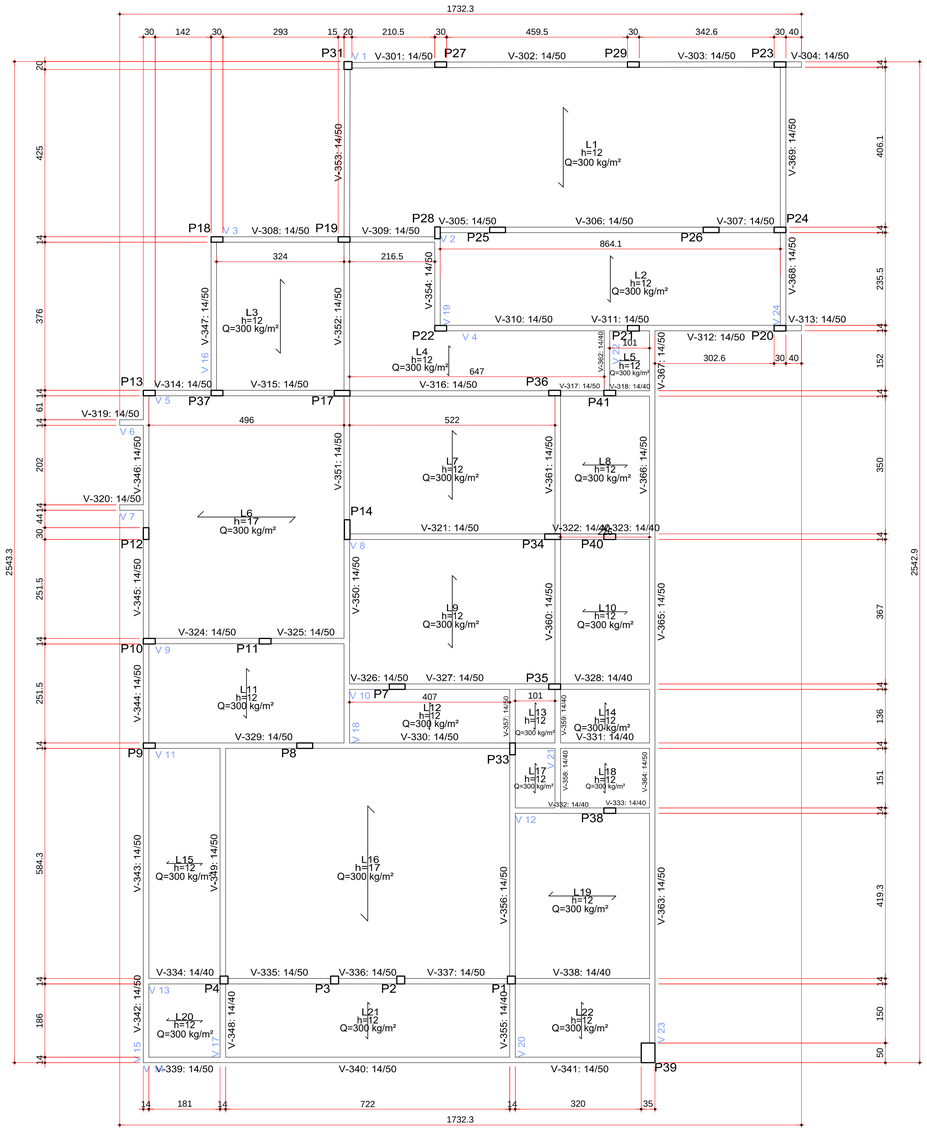
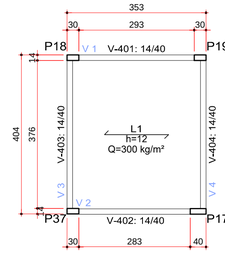


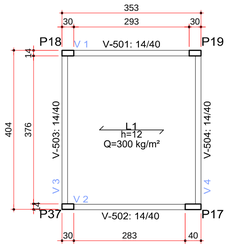
03 PLANTA DE FORMA COBERTURA

01/75



04 PLANTA DE FORMA - FUNDO RESERVATÓRIO

01/75



05 PLANTA DE FORMA - COBERTURA RESERVATÓRIO

01/75

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:

ESTRUTURAL

EMITENTE:

BM Incorporadora & Construtora Ltda - EPP
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Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE URUBICI**

DATA: 17/01/2022

DESENHO: MATHEUS R.

OBRA: **DESTACAMENTO MILITAR**
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

COD. CLIENTE:

CONTEÚDO: **DETALHAMENTO SAPATAS**

DIM. PRANCHA: A1

ESCALA: **1:75**

ÁREA: **557,83** m²

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 02/08**

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.

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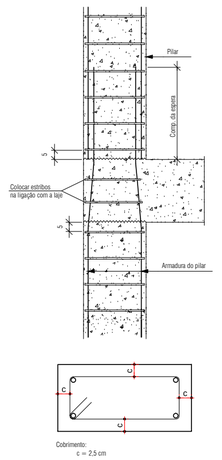
NÍVEIS	P1, P2, P3, P4, P31	P5, P6, P15, P16	P7, P8, P25	P9, P10, P11, P13, P20, P21 P22, P23, P24, P35, P12 P27, P28, P29, P36	P14	P17	P18, P19, P37	P26	P32	P33	P34	P38, P40, P41	P39
COBERT. RES. 9.40													
FUNDO RES. 7.65						N2 c/12 2405 6N10I10 C=285 Ø10 40 14	N2 c/12 2405 4N10I12.5 C=285						
COBERTURA 6.55						N3Ø5c/12 C=98	Ø12.5 30 14						
1° PAVTO. 3.575	N2 c/12 2505 4N10I10 C=297.5 Ø10 20 20		N2 c/12 2505 6N10I10 C=297.5 Ø10 40 14	N2 c/12 2505 4N10I10 C=297.5 Ø10 30 14	N2 c/12 2505 6N10I12.5 C=297.5 Ø12.5 50 14	N2 c/12 2505 6N10I12.5 C=350 Ø12.5 40 14	N2 c/12 2505 4N10I12.5 C=350 9 25 N3Ø5c/12 C=78	N2 c/12 2505 6N10I12.5 C=297.5 Ø12.5 40 14		N2 c/12 2505 6N10I12.5 C=297.5 Ø12.5 30 14	N2 c/12 2505 8N10I12.5 C=297.5 Ø12.5 40 14	N2 c/12 2505 4N10I10 C=297.5 Ø10 30 14 9 25 N3Ø5c/12 C=78	N2 c/12 2505 2N10I12.5 C=297.5 6N10I10 C=297.5 35 Ø10 Ø10 50 Ø12.5 30 N4Ø5c/12 C=43
BALDRAME TÉRREO 0.60	N2 c/12 2505 4N10I10 C=350 15 15 N2Ø5c/12 C=70	N6 c/12 2505 4N10I10 C=297.5 Ø10 30 14 9 25 N3Ø5c/12 C=78	N2 c/12 2505 6N10I10 C=350 9 35 N3Ø5c/12 C=98	N2 c/12 2505 4N10I10 C=350 9 25 N3Ø5c/12 C=78	N2 c/12 2505 6N10I12.5 C=350 9 45 N3Ø5c/12 C=118	N2 c/12 2505 6N10I12.5 C=350 9 35 N3Ø5c/12 C=98	N2 c/12 2505 4N10I12.5 C=350	N2 c/12 2505 6N10I12.5 C=350 9 35 N3Ø5c/12 C=98	N2 c/12 2505 4N10I10 C=297.5 Ø10 25 25 20 20 N2Ø5c/12 C=90	N2 c/12 2505 6N10I12.5 C=350 9 25 N3Ø5c/12 C=78	N2 c/12 2505 8N10I12.5 C=350 9 35 N3Ø5c/12 C=98		N2 c/12 2505 2N10I12.5 C=350 6N10I10 C=350 45 30 N2Ø5c/12 C=160 5 45 N3Ø5c/12 C=59
FUNDAÇÃO VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR	VAR VAR		VAR VAR VAR

Resumo Aço Quadro de pilares		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	1536.1	1041	
	Ø12.5	89.0	94	1135
CA-60	Ø5	2154.8	372	372
Total				1507

DETALHES



REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:

ESTRUTURAL

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PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE URUBICI**

OBRA: **DESTACAMENTO MILITAR**
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

CONTEÚDO: **DETALHAMENTO PILARES**

DATA: 17/01/2022
DESENHO: MATHEUS R.
CÓD. CLIENTE:
DIM. PRANCHA: A2
ESCALA: **1:75**
ÁREA: **557,83** m²

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 03/08**

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.

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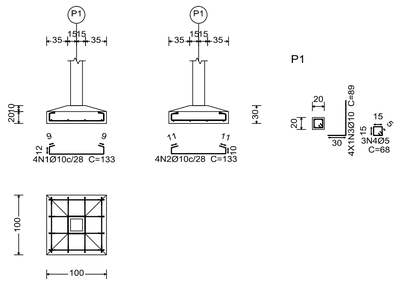

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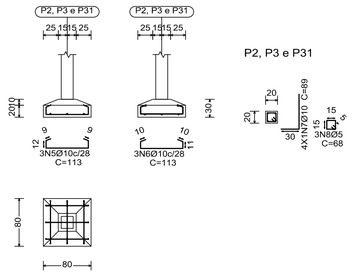

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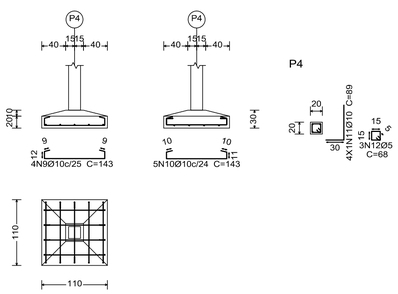

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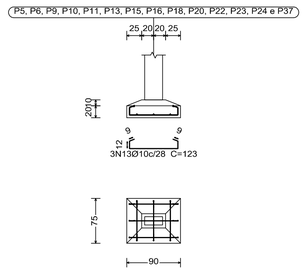

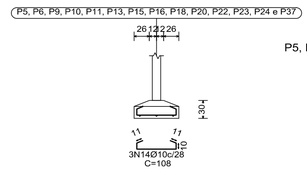

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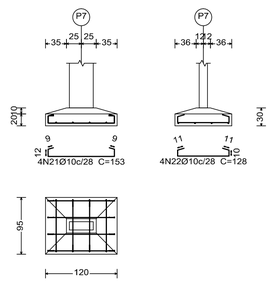

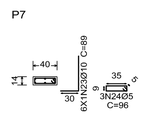

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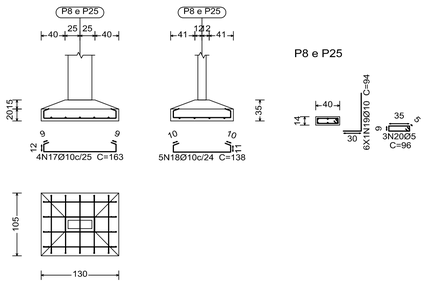

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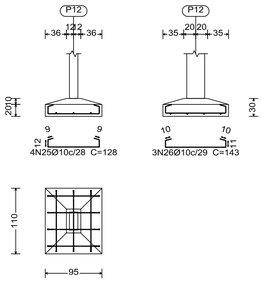

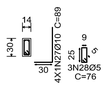

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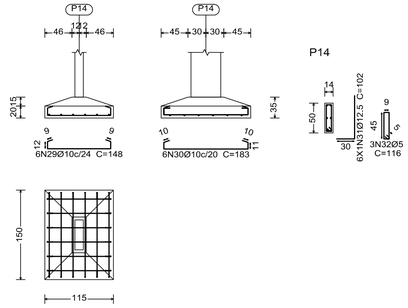

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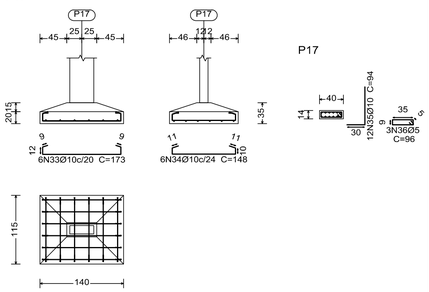

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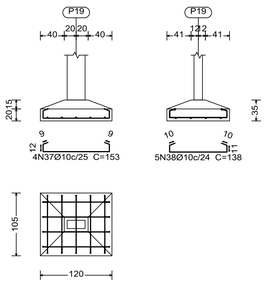

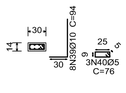

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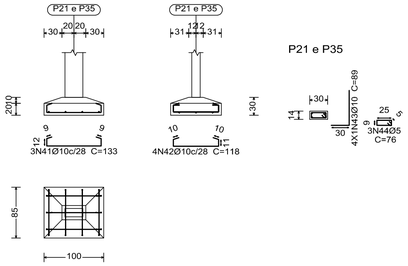

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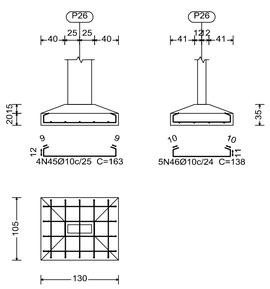
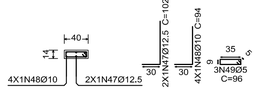
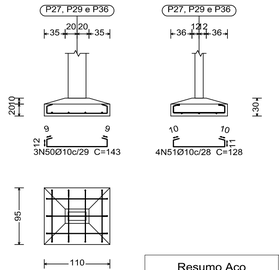
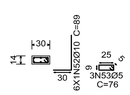




P27, P29 e P36





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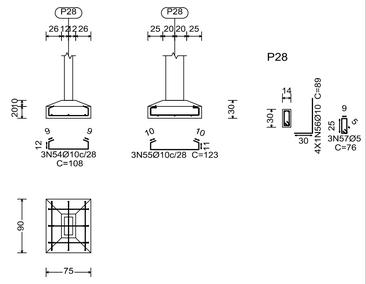
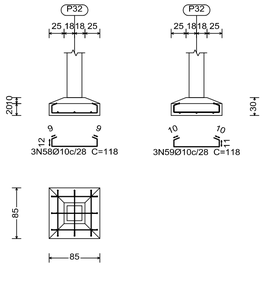
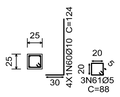


Resumo Aço SAPATAS Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	518.5	351	
	Ø12.5	15.1	16	367
CA-60	Ø5	90.8	16	16
Total				383

P32





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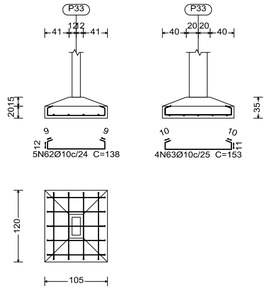

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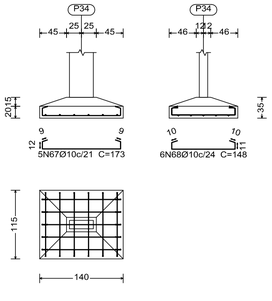

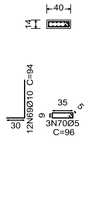

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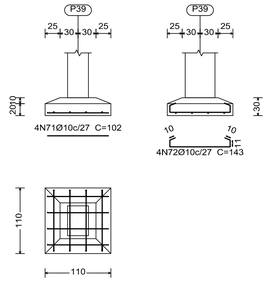

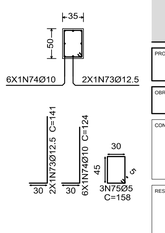

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:

ESTRUTURAL

EMITENTE:

BM Incorporadora & Construtora Ltda - EPP
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Rua André Lanka - Esquina - Urubici-SC - CEP 88.650-000
E-mail murillobrunes@gmail.com
Fone (048) 9 9122-4298 Vivo
Fone (048) 9 9635-9062 Tim
Eng. Civil: MURILLO BECKHAUSER NUNES - CREA-SC 152161-1
Eng. Civil: MATHEUS REMORI - CREA-SC 175778-0

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE URUBICI**

DATA: 17/01/2022

DESENHO: MATHEUS R.

OBRA: **DESTACAMENTO MILITAR**
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

CÓD. CLIENTE:

CONTEÚDO: **DETALHAMENTO SAPATAS**

DIM. PRANCHA: A3

ESCALA: **1:75**

ÁREA: **557,83 m²**

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 04/08**

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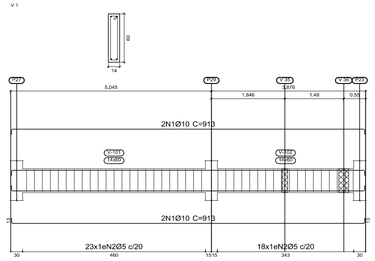

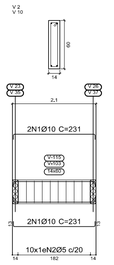

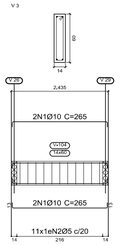

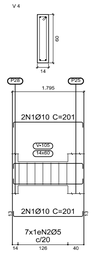

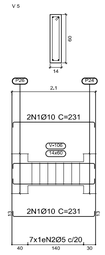

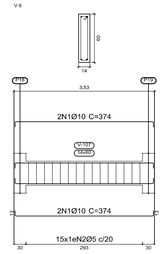

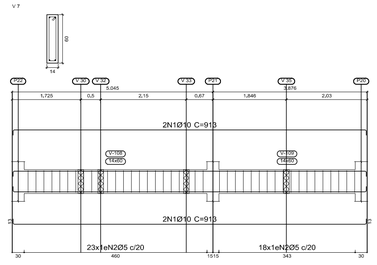

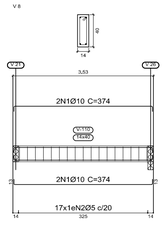

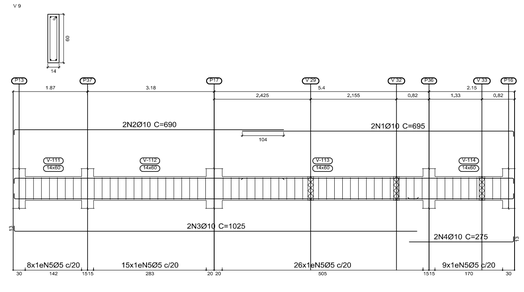

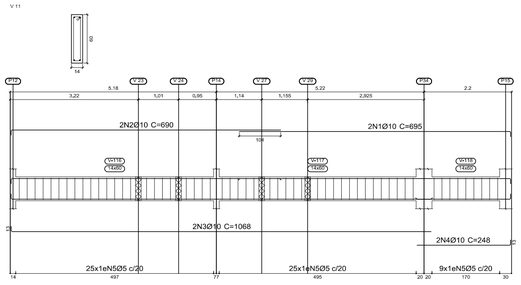

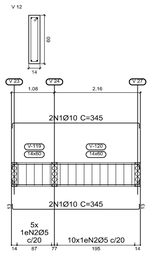

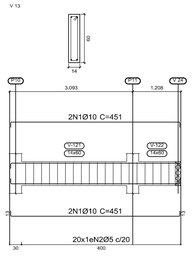

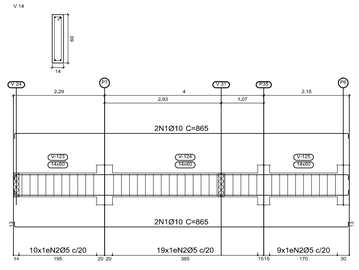

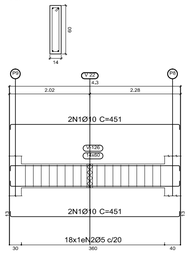

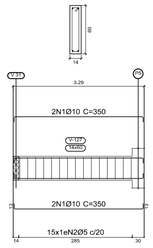

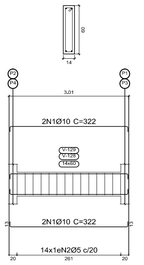

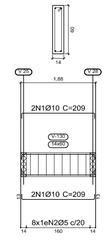

BALDRAME
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:37
Escala aberturas 1:75

Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6.3	3.7	1	
	Ø10	784.3	532	
	Ø12.5	3.7	4	537
CA-60	Ø5	1185.3	205	205
Total				742

DIÂMETRO		SEÇÃO TRANSVERSAL PARA GRUPOS DE BARRA (cm²)								
mm	pol.	1	2	3	4	5	6	7	8	9	10
5.0	3/16"	0,20	0,40	0,60	0,80	1,00	1,20	1,40	1,60	1,80	2,00
6.3	1/4"	0,31	0,63	0,94	1,26	1,57	1,89	2,20	2,52	2,83	3,15
8.0	5/16"	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
10	3/8"	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
12.5	1/2"	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00	11,25	12,50
16	5/8"	2,00	4,00	6,00	8,00	10,00	12,00	14,00	16,00	18,00	20,00
20	3/4"	3,15	6,30	9,45	12,60	15,75	18,90	22,05	25,20	28,35	31,50

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:
ESTRUTURAL

EMITENTE:
BM Incorporadora & Construtora Ltda - EPP
CNPJ: 28.863.517/0001-94
Rua André Lanka - Esquina - Urubici-SC - CEP 88.650-000
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Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE URUBICI

OBRA:
DESTACAMENTO MILITAR
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

CONTEÚDO:
DETALHAMENTO VIGAS BALDRAME

DATA: 17/01/2022
DESENHO: MATHEUS R.
CÓD. CLIENTE:
DIM. PRANCHA: A1
ESCALA: **1:75**
ÁREA: **557,83** m²

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 05/08**

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.
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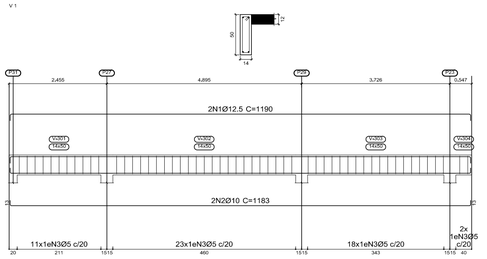

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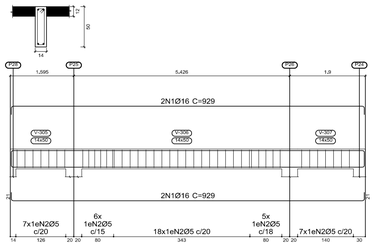

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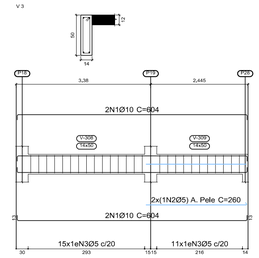

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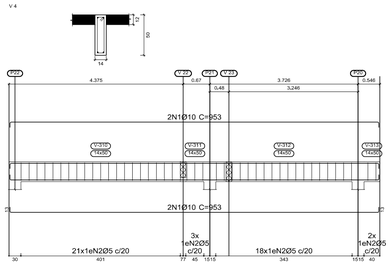

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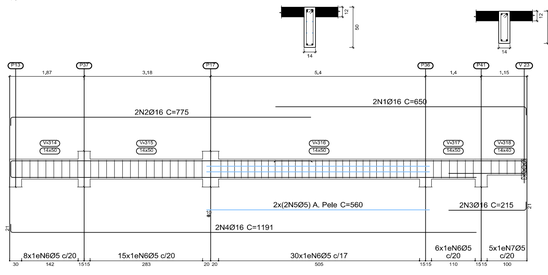
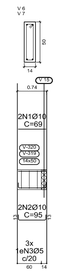


V 6
V 7



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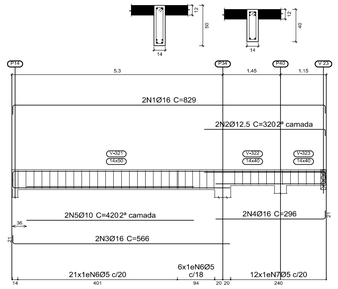

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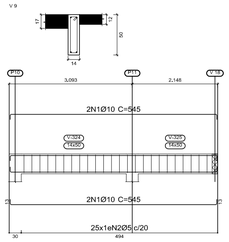

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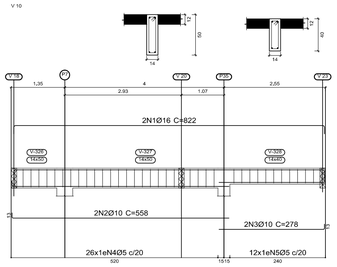

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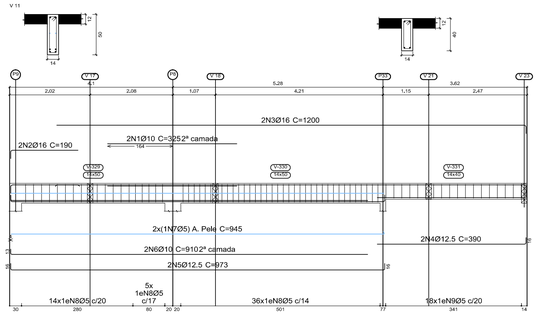

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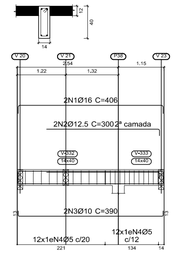

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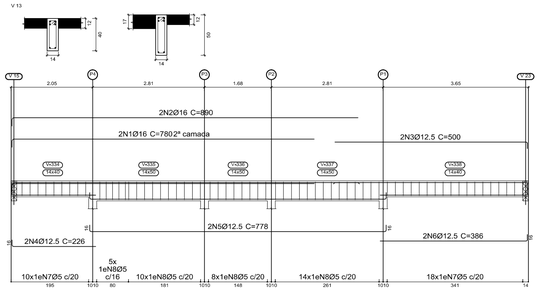

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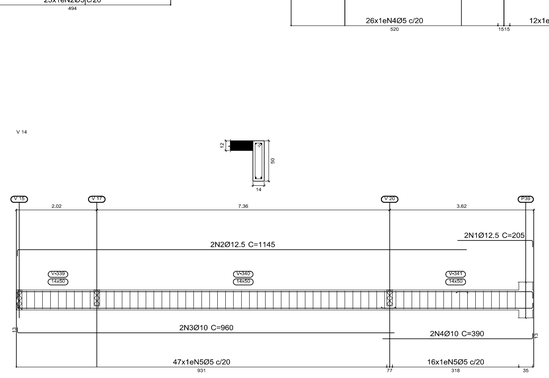

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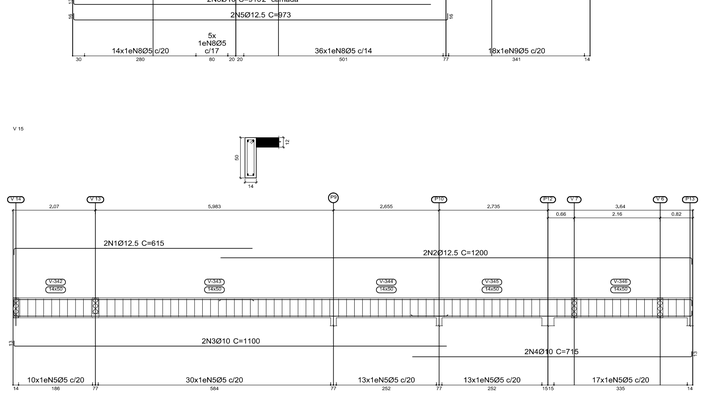

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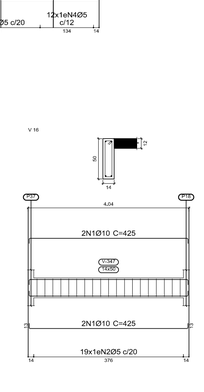

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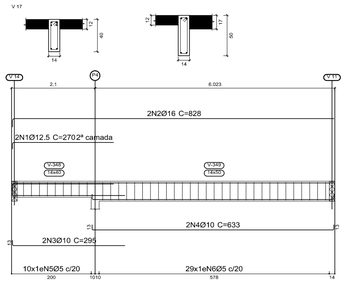

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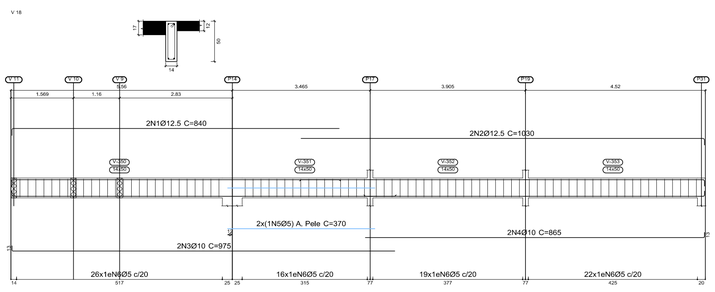

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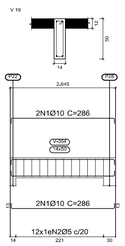

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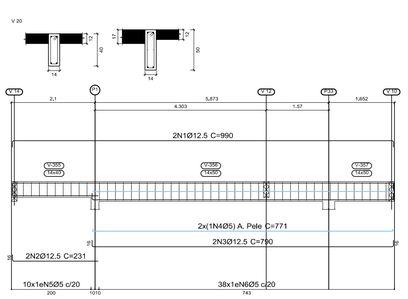

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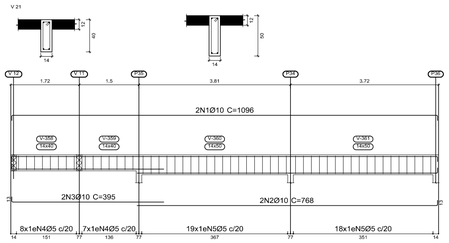

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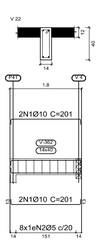

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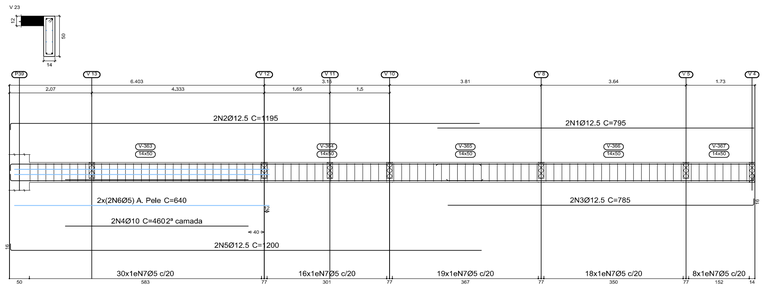

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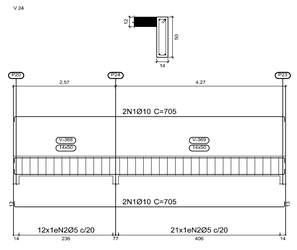

Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	409.6	278	
	Ø12.5	327.1	347	
	Ø16	229.9	399	1024
CA-60	Ø5	1263.6	218	218
Total				1242

COBERTURA
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:37
Escala aberturas 1:75

DIÂMETRO		SEÇÃO TRANSVERSAL PARA GRUPOS DE BARRA (cm²)							
mm	pol.	1	2	3	4	5	6	7	8	9	10
5.0	3/16"	0,20	0,40	0,60	0,80	1,00	1,20	1,40	1,60	1,80	2,00
6.3	1/4"	0,31	0,63	0,94	1,26	1,57	1,89	2,20	2,52	2,83	3,15
8.0	5/16"	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
10	3/8"	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
12.5	1/2"	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00	11,25	12,50
16	5/8"	2,00	4,00	6,00	8,00	10,00	12,00	14,00	16,00	18,00	20,00
20	3/4"	3,15	6,30	9,45	12,60	15,75	18,90	22,05	25,20	28,35	31,50

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:
ESTRUTURAL

EMITENTE:
BM Incorporadora & Construtora Ltda - EPP
CNPJ: 28.861.517/0001-94
Rua André Lanka - Esquina - Urubici-SC - CEP 88.650-000
E-mail murillobnunes@gmail.com
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Fone (048) 9 9635-9062 Tim
Eng. Civil: MURILLO BECKHAUSER NUNES - CREA-SC 152161-1
Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE URUBICI

DATA: 17/01/2022
DESENHO: MATHEUS R.

OBRA:
DESTACAMENTO MILITAR
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

COD. CLIENTE:

CONTEÚDO:
DETALHAMENTO VIGAS COBERTURA

DIM. PRANCHA: A1

ESCALA: 1:75

ÁREA: 557,83 m²

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA: **EST 06/08**

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.

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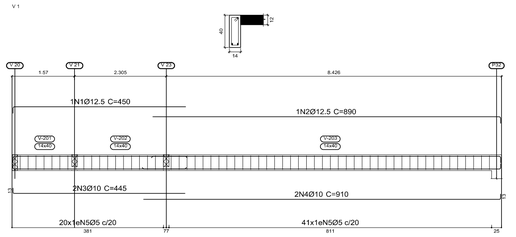
V 1



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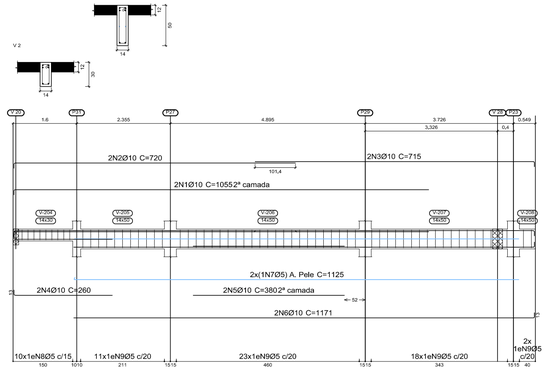

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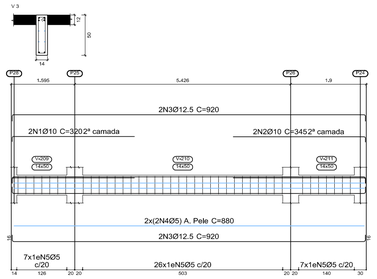

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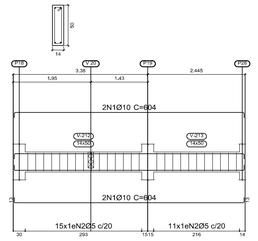

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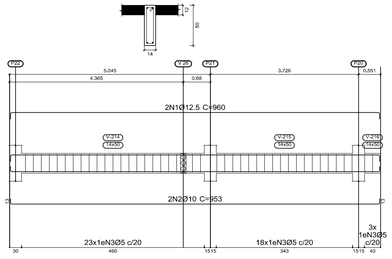

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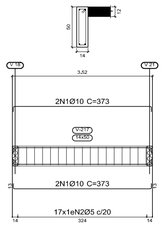
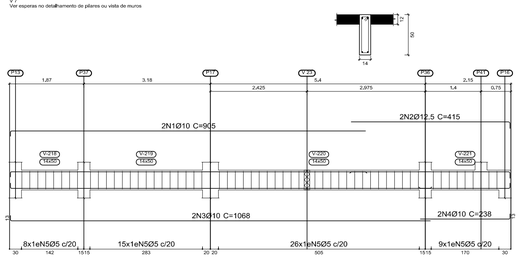


V 7
Ver esperas no detalhamento de pilares ou vista de muros



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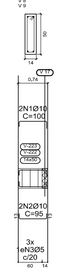
V 9



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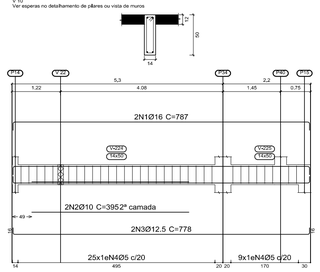
Ver esperas no detalhamento de pilares ou vista de muros



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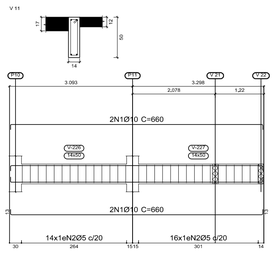

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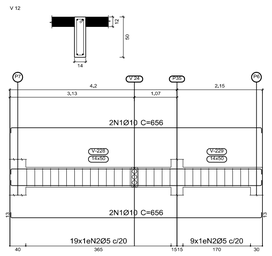

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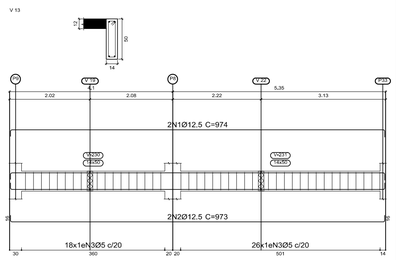

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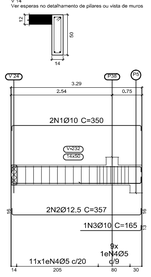
Ver esperas no detalhamento de pilares ou vista de muros



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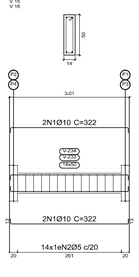

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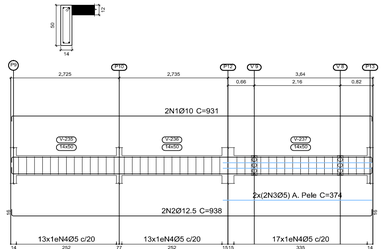

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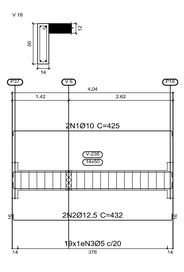

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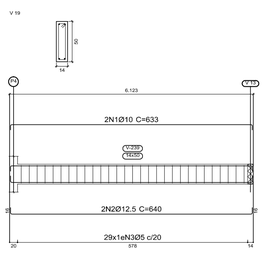

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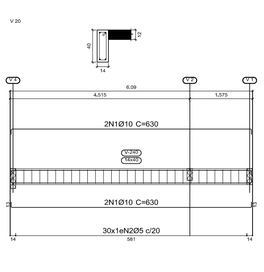

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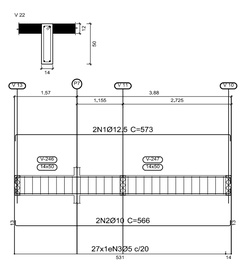

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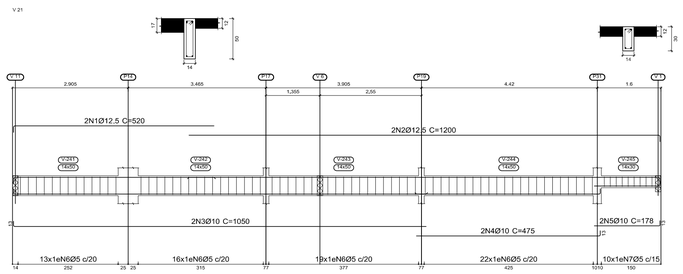

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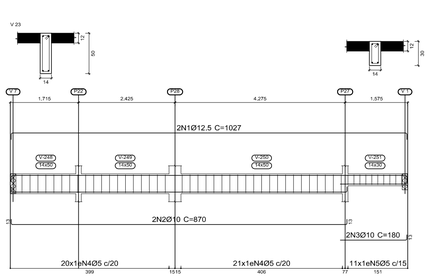

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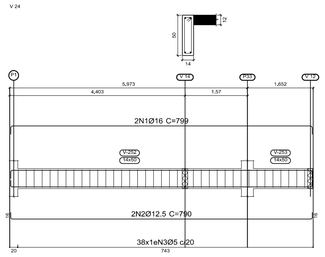
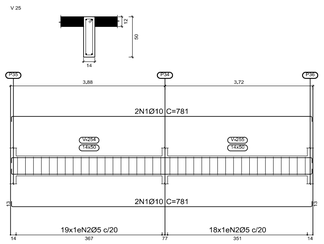


Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	577.9	392	
	Ø12.5	265.6	281	
	Ø16	31.7	55	728
CA-60	Ø5	1153.7	199	199
Total				927

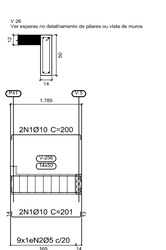
1 PAVIMENTO
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:37
Escala aberturas 1:75

DIÂMETRO		SEÇÃO TRANSVERSAL PARA GRUPOS DE BARRA (cm²)									
mm	pol.	1	2	3	4	5	6	7	8	9	10
5.0	3/16"	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00
6.3	1/4"	0.31	0.63	0.94	1.26	1.57	1.89	2.20	2.52	2.83	3.15
8.0	5/16"	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
10	3/8"	0.80	1.60	2.40	3.20	4.00	4.80	5.60	6.40	7.20	8.00
12.5	1/2"	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50
16	5/8"	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00
20	3/4"	3.15	6.30	9.45	12.60	15.75	18.90	22.05	25.20	28.35	31.50

V 25



V 26
Ver esperas no detalhamento de pilares ou vista de muros



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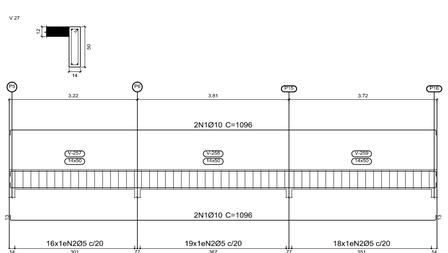

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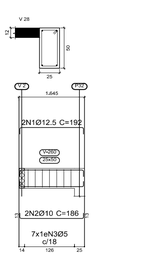

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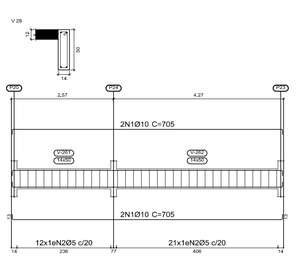

00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.
REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO

PROJETO:
ESTRUTURAL

EMITENTE:
BM Incorporadora & Construtora Ltda - EPP
CNPJ: 28.861.517/0001-94
Rua André Lanka - Esquina - Urubici-SC - CEP 88.650-000
E-mail murillobnunes@gmail.com
Fone (048) 9 9122-4298 Vivo
Fone (048) 9 9635-9062 Tim
Eng. Civil: MURILLO BECKHAUSER NUNES - CREA-SC 152161-1
Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE URUBICI

DATA: 17/01/2022
DESENHO: MATHEUS R.

OBRA:
DESTACAMENTO MILITAR
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

COD. CLIENTE:

CONTEÚDO
DETALHAMENTO VIGAS 1 PAVIMENTO

DIM. PRANCHA: A1

ESCALA: **1:75**

ÁREA: **557,83 m²**

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

PRANCHA:
EST 07/08

PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.

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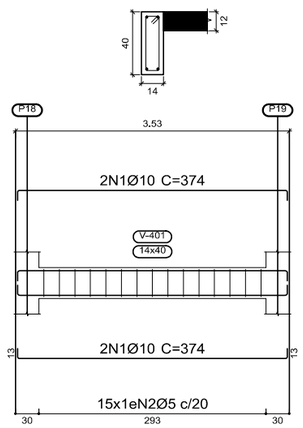

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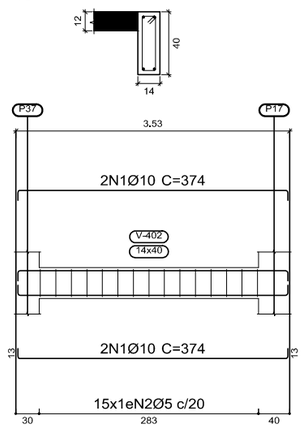

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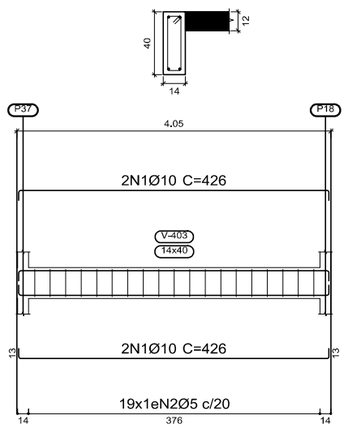

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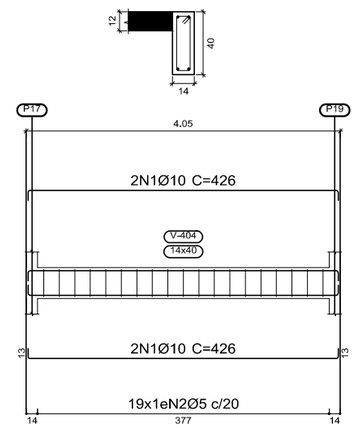
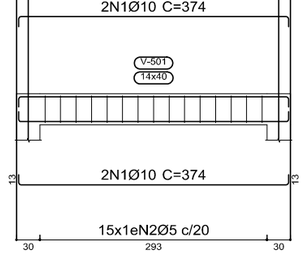


Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	64.0	43	43
CA-60	Ø5	65.3	11	11
Total				54

FUNDO RESERV.
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:37
Escala aberturas 1:75

V 1



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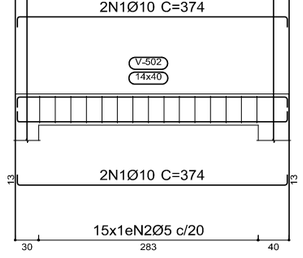

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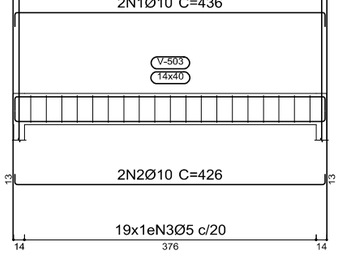

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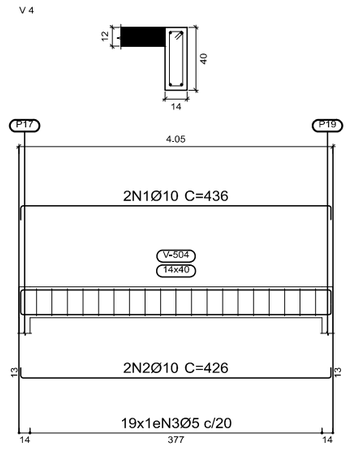

TETO RESERV,
Desenho de vigas
Concreto: C25, usina.rigor
Aço das barras: CA-50 e CA-60
Aço dos estribos: CA-50 e CA-60
Escala vigas 1:75
Escala seções 1:37
Escala aberturas 1:75

Resumo Aço Desenho de vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø10	64.4	44	44
CA-60	Ø5	65.3	11	11
Total				55

DIÂMETRO		SEÇÃO TRANSVERSAL PARA GRUPOS DE BARRA (cm²)									
mm	pol.	1	2	3	4	5	6	7	8	9	10
5.0	3/16"	0,20	0,40	0,60	0,80	1,00	1,20	1,40	1,60	1,80	2,00
6.3	1/4"	0,31	0,63	0,94	1,26	1,57	1,89	2,20	2,52	2,83	3,15
8.0	5/16"	0,50	1,00	1,50	2,00	2,50	3,00	3,50	4,00	4,50	5,00
10	3/8"	0,80	1,60	2,40	3,20	4,00	4,80	5,60	6,40	7,20	8,00
12.5	1/2"	1,25	2,50	3,75	5,00	6,25	7,50	8,75	10,00	11,25	12,50
16	5/8"	2,00	4,00	6,00	8,00	10,00	12,00	14,00	16,00	18,00	20,00
20	3/4"	3,15	6,30	9,45	12,60	15,75	18,90	22,05	25,20	28,35	31.50

REV.	DESCRIÇÃO	DATA	DESENHO	VERIFICADO	APROVADO
00	Emissão Inicial	17/01/2022	MATHEUS R.	MURILLO B.	MURILLO B.

PROJETO:

ESTRUTURAL

EMITENTE:

BM Incorporadora & Construtora Ltda - EPP
CNPJ: 28.861.517/0001-94
Rua André Lanka - Esquina - Urubici-SC - CEP 88.650-000
E-mail murillobnunes@gmail.com
Fone (048) 9 9122-4298 Vivo
Fone (048) 9 9635-9062 Tim
Eng. Civil: MURILLO BECKHAUSER NUNES - CREA-SC 152161-1
Eng. Civil: MATHEUS REMOR - CREA-SC 175778-0

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE URUBICI**

OBRA: **DESTACAMENTO MILITAR**
Avenida Antônio Francisco Ghizoni, Centro - Urubici - SC

CONTEÚDO
DETALHAMENTO VIGAS FUNDO RESERVATÓRIO
DETALHAMENTO VIGAS COBERTURA RESERVATÓRIO

RESPONSABILIDADE / ASSINATURAS:

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE URUBICI

RESPONSÁVEL TÉCNICO
MURILLO BECKHAUSER NUNES
Engenheiro Civil CREA-SC Nº 152161-1

DATA: 17/01/2022
DESENHO: MATHEUS R.
CÓD. CLIENTE:
DIM. PRANCHA: A3
ESCALA: **1:75**
ÁREA: **557,83** m²

PRANCHA: **EST 08/08**

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PROIBIDA A REPRODUÇÃO NO TODO OU EM PARTES SEM A AUTORIZAÇÃO EXPRESSA DO AUTOR.