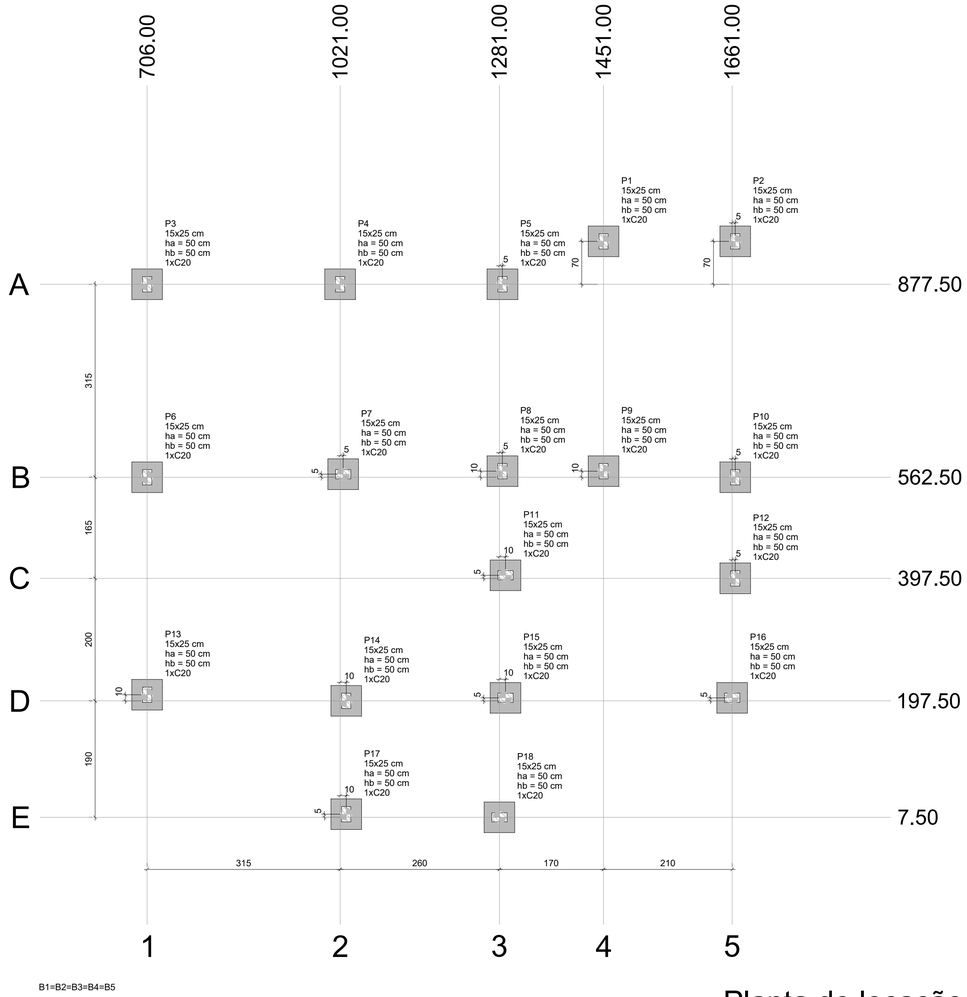
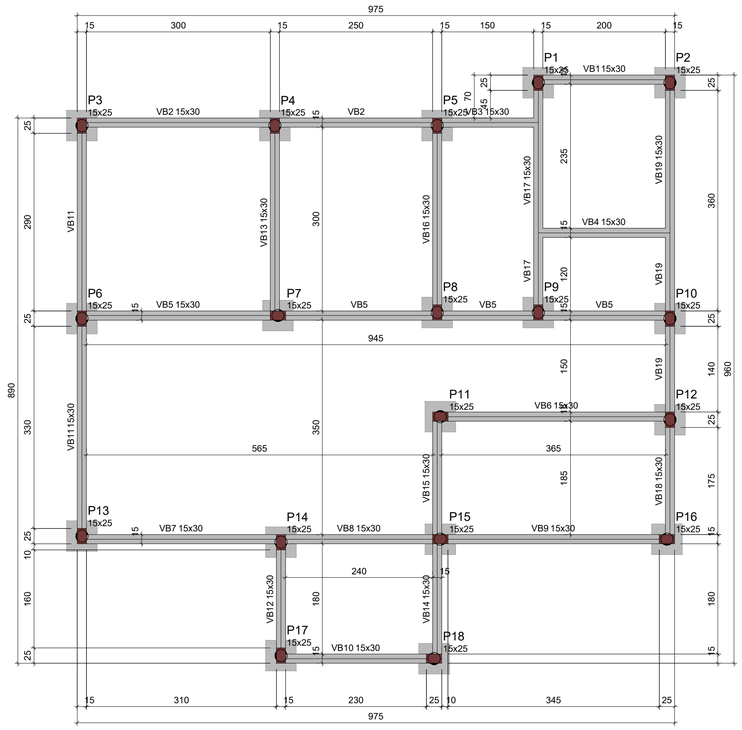


Planta de locação

escala 1:50



Forma do pavimento Fundação (Nível 0)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
VB1	15x30	0	0
VB2	15x30	0	0
VB3	15x30	0	0
VB4	15x30	0	0
VB5	15x30	0	0
VB6	15x30	0	0
VB7	15x30	0	0
VB8	15x30	0	0
VB9	15x30	0	0
VB10	15x30	0	0
VB11	15x30	0	0
VB12	15x30	0	0
VB13	15x30	0	0
VB14	15x30	0	0
VB15	15x30	0	0
VB16	15x30	0	0
VB17	15x30	0	0
VB18	15x30	0	0
VB19	15x30	0	0

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	289800

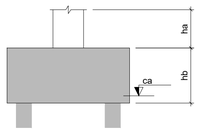
Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x25	0	0
P2	15x25	0	0
P3	15x25	0	0
P4	15x25	0	0
P5	15x25	0	0
P6	15x25	0	0
P7	15x25	0	0
P8	15x25	0	0
P9	15x25	0	0
P10	15x25	0	0
P11	15x25	0	0
P12	15x25	0	0
P13	15x25	0	0
P14	15x25	0	0
P15	15x25	0	0
P16	15x25	0	0
P17	15x25	0	0
P18	15x25	0	0

Legenda dos pilares	
	Pilar que passa

Legenda das vigas e paredes	
	Viga

B6=B7=B8=B9=B10
B11=B12=B13=B14
B15=B16=B17=B18 (1xC20)



Legenda dos blocos

escala 1:25

Pilar													Fundação				Bloco			
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx Máximo (kgf.m)		My Máximo (kgf.m)		Fx Máximo (tf)		Fy Máximo (tf)		Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	ne	Estaca	ca (cm)	Base tub. (cm)
						Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo								
P1	15x25	1451.00	947.50	4.9	4.6	0	0	0	0	0.0	-0.4	1.3	0.0	50	50	50	50	1	C20	-85	
P2	15x25	1666.00	947.50	4.0	3.7	0	0	0	0	0.4	0.0	1.2	0.0	50	50	50	50	1	C20	-85	
P3	15x25	706.00	877.50	4.6	4.3	0	0	0	0	0.0	-0.6	0.6	0.0	50	50	50	50	1	C20	-85	
P4	15x25	1021.00	877.50	6.2	5.8	0	0	0	0	0.4	0.0	0.7	0.0	50	50	50	50	1	C20	-85	
P5	15x25	1286.00	877.50	5.4	5.1	0	0	0	0	0.2	0.0	0.6	0.0	50	50	50	50	1	C20	-85	
P6	15x25	706.00	562.50	7.2	6.7	0	0	0	0	0.0	-0.7	0.2	0.0	50	50	50	50	1	C20	-85	
P7	15x25	1026.00	567.50	7.4	6.8	0	0	0	0	0.4	0.0	0.0	-0.5	50	50	50	50	1	C20	-85	
P8	15x25	1286.00	572.50	4.8	4.5	0	0	0	0	0.3	0.0	0.0	-0.6	50	50	50	50	1	C20	-85	
P9	15x25	1451.00	572.50	5.9	5.5	0	0	0	0	0.0	-0.3	0.0	-1.4	50	50	50	50	1	C20	-85	
P10	15x25	1666.00	562.50	5.2	4.9	0	0	0	0	0.3	0.0	0.0	-1.1	50	50	50	50	1	C20	-85	
P11	15x25	1291.00	402.50	4.6	4.2	0	0	0	0	0.0	-0.9	0.2	0.0	50	50	50	50	1	C20	-85	
P12	15x25	1666.00	397.50	3.8	3.5	0	0	0	0	0.7	0.0	0.3	0.0	50	50	50	50	1	C20	-85	
P13	15x25	706.00	207.50	5.0	4.7	0	0	0	0	0.0	-0.7	0.0	-0.7	50	50	50	50	1	C20	-85	
P14	15x25	1031.00	197.50	5.6	5.0	0	0	0	0	0.6	0.0	0.4	0.0	50	50	50	50	1	C20	-85	
P15	15x25	1291.00	202.50	5.8	5.4	0	0	0	0	0.0	-0.8	0.1	-0.2	50	50	50	50	1	C20	-85	
P16	15x25	1661.00	202.50	3.8	3.5	0	0	0	0	0.8	0.0	0.0	-0.2	50	50	50	50	1	C20	-85	
P17	15x25	1031.00	12.50	2.3	1.9	0	0	0	0	0.0	-0.5	0.0	-0.4	50	50	50	50	1	C20	-85	
P18	15x25	1281.00	7.50	2.6	2.4	0	0	0	0	0.4	0.0	0.0	-0.3	50	50	50	50	1	C20	-85	

Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

Locação no eixo X	
Coordenadas (cm)	Nome
706.00	P3, P6, P13
1021.00	P4
1026.00	P7
1031.00	P14, P17
1281.00	P18
1286.00	P5, P8
1291.00	P11, P15
1451.00	P1, P9
1661.00	P16
1666.00	P2, P10, P12

Locação no eixo Y	
Coordenadas (cm)	Nome
947.50	P1, P2
877.50	P3, P4, P5
572.50	P8, P9
567.50	P7
562.50	P6, P10
402.50	P11
397.50	P12
207.50	P13
202.50	P15, P16
197.50	P14
12.50	P17
7.50	P18

Estacas			
Simbologia	Nome	d (cm)	Quantidade
	C20	20.00	18

CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
EMAIL: SEMOBITRP@GMAIL.COM
TEL. (34) 3855-1223

PROP.: PREFEITURA MUNICIPAL DE RIO PARANAÍBA
CNPJ: 18.602.045/0001-00

END. DA OBRA: Avenida José Mendes da Rocha, nº 345, Bairro Novo Horizonte
RIO PARANAÍBA - MG

R.T.: CAROLINA NAVES RIBEIRO
Engenheira Civil - CREA 214.519/D - MG

CAD.: SEMOBIT
MARÇO/2021

PROJETO: PROJETO ESTRUTURAL
FOLHA: 01/05

ART DA OBRA: MG20210151622

ZONA: URBANA
RIO PARANAÍBA

CONTEÚDO: PLANTA DE LOCAÇÃO DE BLOCOS DE FUNDAÇÃO
PLANTA DE FORMA DE FUNDAÇÃO

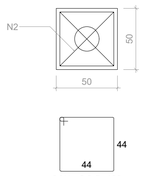
ÁREA TOTAL DO LOTE: 263,40 m²

ÁREA TOTAL CONTRUÍDA: 182,60 m²

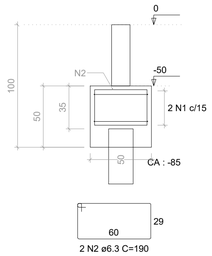
FORMATO A1

B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12
=B13=B14=B15=B16=B17=B18
1xC20

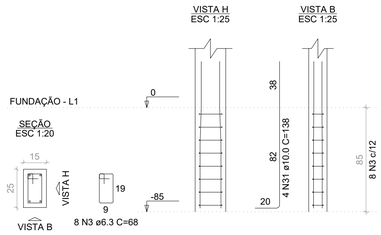
PLANTA
ESC 1:25



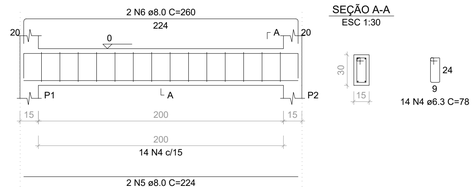
CORTE
ESC 1:25



P1=P2=P3=P4=P5=P6=P7=P8=P9=
=P10=P11=P12=P13=P14=P15=
=P16=P17=P18

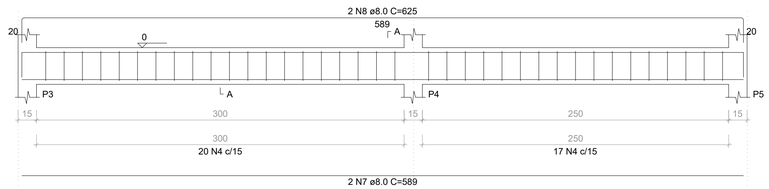


VB1 (15 x 30)
ESC 1:25



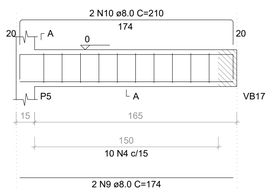
SEÇÃO A-A
ESC 1:30

VB2 (15 x 30)
ESC 1:25

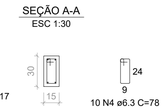


SEÇÃO A-A
ESC 1:30

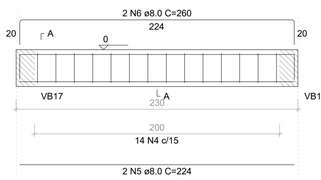
VB3 (15 x 30)
ESC 1:25



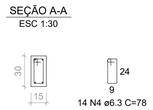
SEÇÃO A-A
ESC 1:30



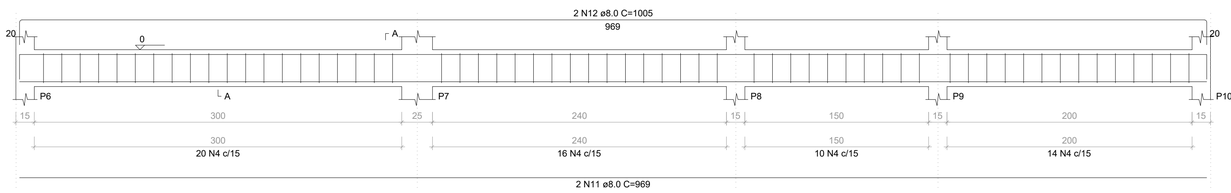
VB4 (15 x 30)
ESC 1:25



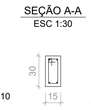
SEÇÃO A-A
ESC 1:30



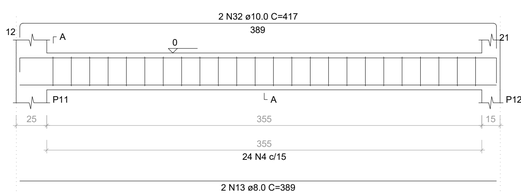
VB5 (15 x 30)
ESC 1:25



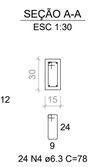
SEÇÃO A-A
ESC 1:30



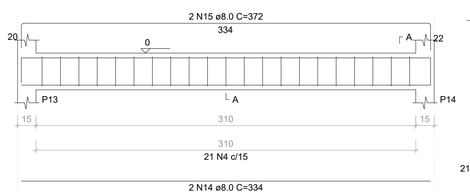
VB6 (15 x 30)
ESC 1:25



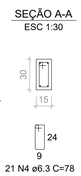
SEÇÃO A-A
ESC 1:30



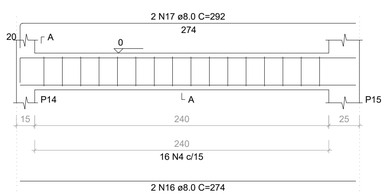
VB7 (15 x 30)
ESC 1:25



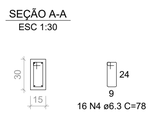
SEÇÃO A-A
ESC 1:30



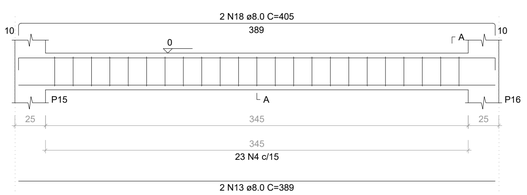
VB8 (15 x 30)
ESC 1:25



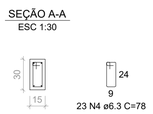
SEÇÃO A-A
ESC 1:30



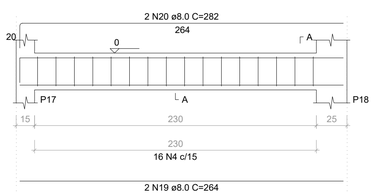
VB9 (15 x 30)
ESC 1:25



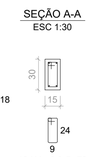
SEÇÃO A-A
ESC 1:30



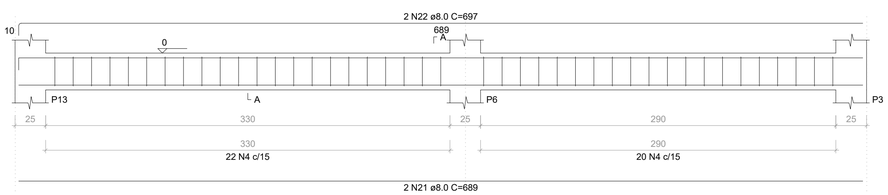
VB10 (15 x 30)
ESC 1:25



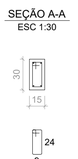
SEÇÃO A-A
ESC 1:30



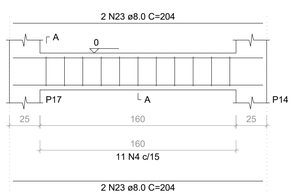
VB11 (15 x 30)
ESC 1:25



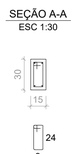
SEÇÃO A-A
ESC 1:30



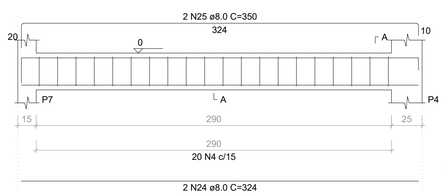
VB12 (15 x 30)
ESC 1:25



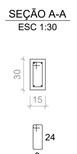
SEÇÃO A-A
ESC 1:30



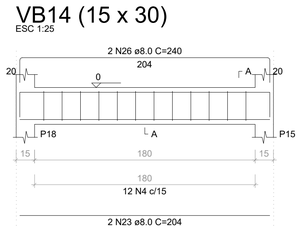
VB13 (15 x 30)
ESC 1:25



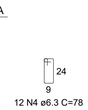
SEÇÃO A-A
ESC 1:30



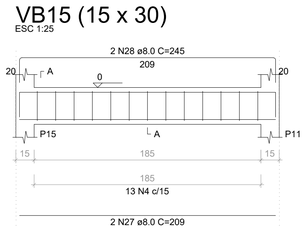
VB14 (15 x 30)
ESC 1:25



SEÇÃO A-A
ESC 1:30

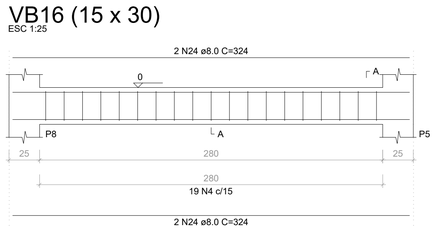


VB15 (15 x 30)
ESC 1:25

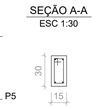


SEÇÃO A-A
ESC 1:30

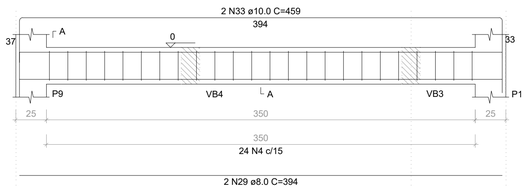
VB16 (15 x 30)
ESC 1:25



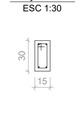
SEÇÃO A-A
ESC 1:30



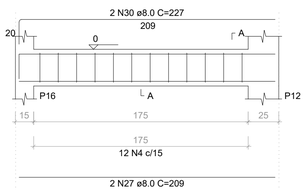
VB17 (15 x 30)
ESC 1:25



SEÇÃO A-A
ESC 1:30

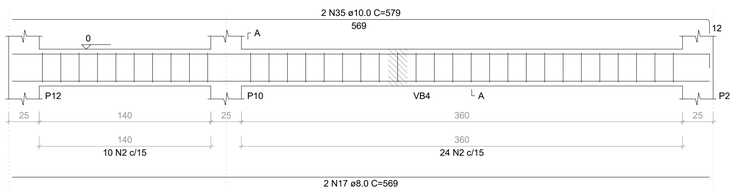


VB18 (15 x 30)
ESC 1:25



SEÇÃO A-A
ESC 1:30

VB19 (15 x 30)
ESC 1:25



SEÇÃO A-A
ESC 1:30

CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
EMAIL: SEMOBITRP@GMAIL.COM
TEL. (34) 3855-1223

PROP.: PREFEITURA MUNICIPAL DE RIO PARANAÍBA
CNPJ: 18.602.045/0001-00

END. DA OBRA: Avenida José Mendes da Rocha, nº 345, Bairro Novo Horizonte
RIO PARANAÍBA - MG

R.T.: CAROLINA NAVES RIBEIRO
Engenheira Civil - CREA 214.519/D - MG

CAD: SEMOBIT
MARÇO/2021

PROJETO: PROJETO ESTRUTURAL
FOLHA: 02/05

CONTEÚDO: DETALHAMENTO DE BLOCOS DE FUNDAÇÃO
DETALHAMENTO DE VIGAS BALDRAME (VB1 A VB18)

ART DA OBRA: MG20210151622

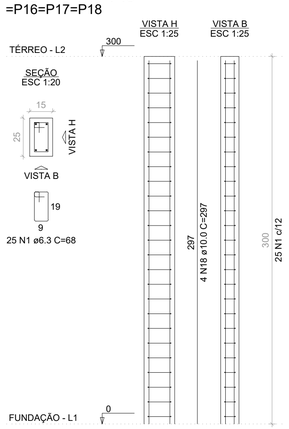
ÁREA TOTAL DO LOTE: 263,40 m²

ÁREA TOTAL CONTRUÍDA: 182,60 m²

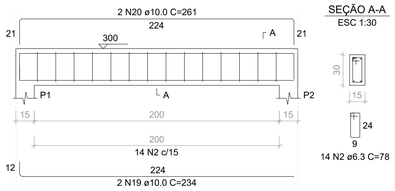
ZONA: URBANA
RIO PARANAÍBA

FORMATO A1

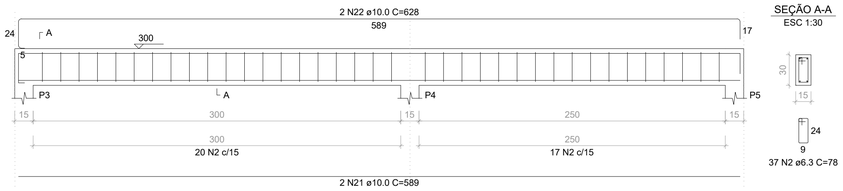
P1=P2=P3=P4=P5=P6=
=P7=P8=P9=P10=P11=
=P12=P13=P14=P15=
=P16=P17=P18



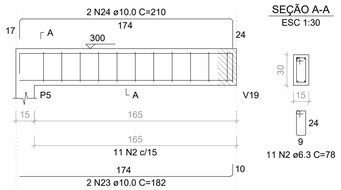
V1 (15 x 30)
ESC 1:25



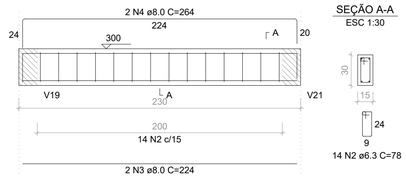
V2 (15 x 30)
ESC 1:25



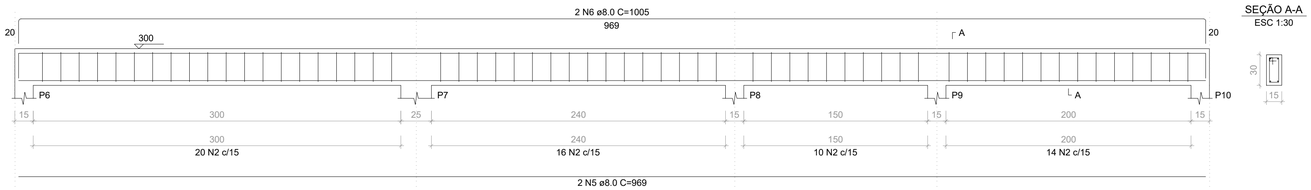
V3 (15 x 30)
ESC 1:25



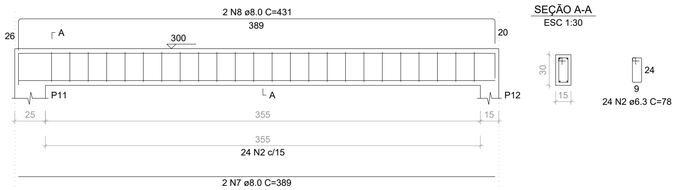
V4 (15 x 30)
ESC 1:25



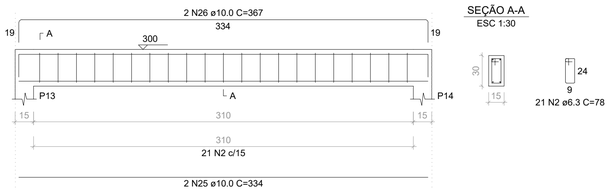
V5 (15 x 30)
ESC 1:25



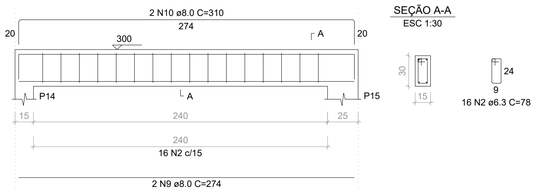
V6 (15 x 30)
ESC 1:25



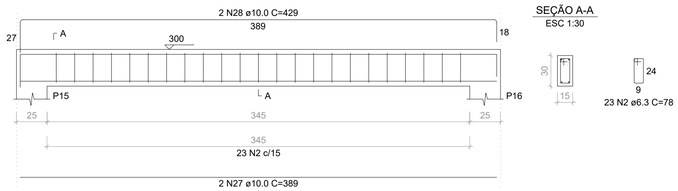
V7 (15 x 30)
ESC 1:25



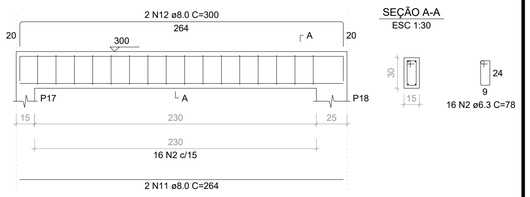
V8 (15 x 30)
ESC 1:25



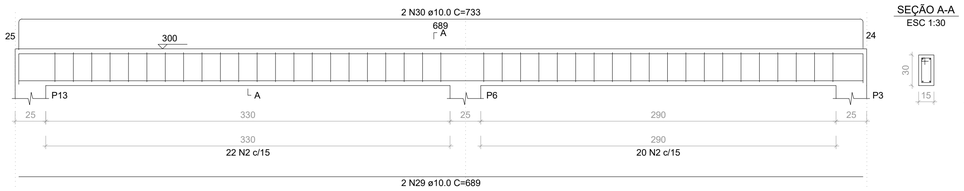
V9 (15 x 30)
ESC 1:25



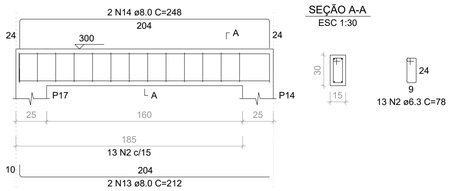
V10 (15 x 30)
ESC 1:25



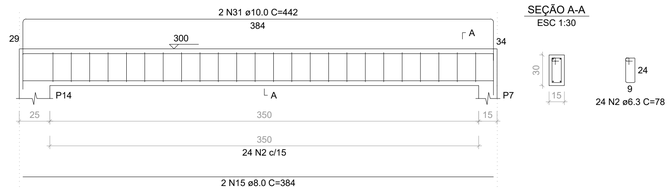
V11 (15 x 30)
ESC 1:25



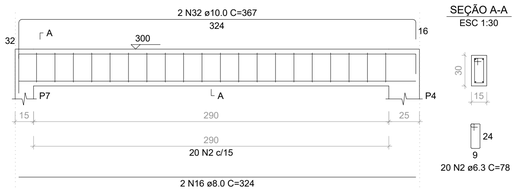
V12 (15 x 30)
ESC 1:25



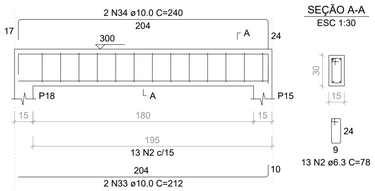
V13 (15 x 30)
ESC 1:25



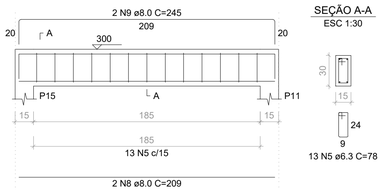
V14 (15 x 30)
ESC 1:25



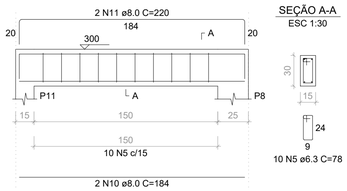
V15 (15 x 30)
ESC 1:25



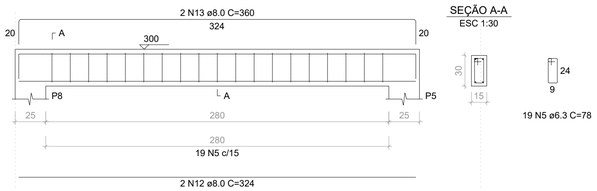
V16 (15 x 30)
ESC 1:25



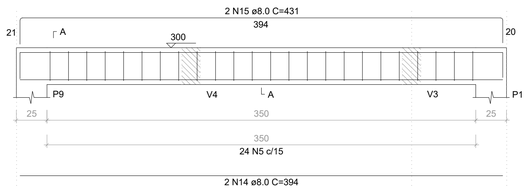
V17 (15 x 30)
ESC 1:25



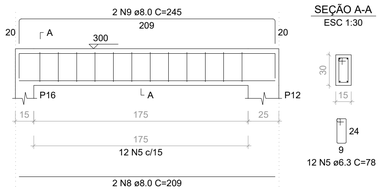
V18 (15 x 30)
ESC 1:25



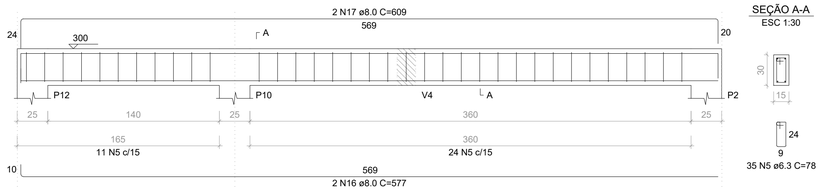
V19 (15 x 30)
ESC 1:25



V20 (15 x 30)
ESC 1:25



V21 (15 x 30)
ESC 1:25



CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
EMAIL: SEMOBITRP@GMAIL.COM
TEL. (34) 3855-1223

PROP: PREFEITURA MUNICIPAL DE RIO PARANAÍBA
CNPJ: 18.602.045/0001-00

END. DA OBRA: Avenida José Mendes da Rocha, nº 345. Bairro Novo Horizonte
RIO PARANAÍBA - MG

R.T.: CAROLINA NAVES RIBEIRO
Engenheira Civil - CREA 214.519/D - MG

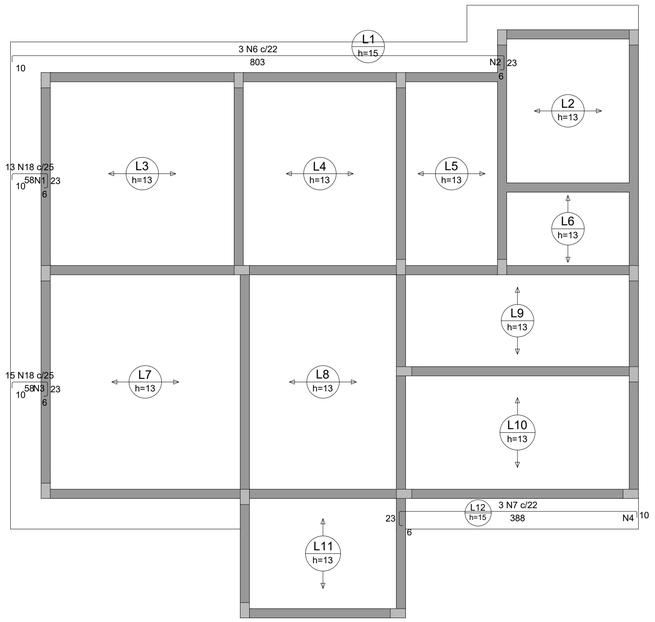
CAD: SEMOBIT
MARÇO/2021

PROJETO: PROJETO ESTRUTURAL
FOLHA: 03/09

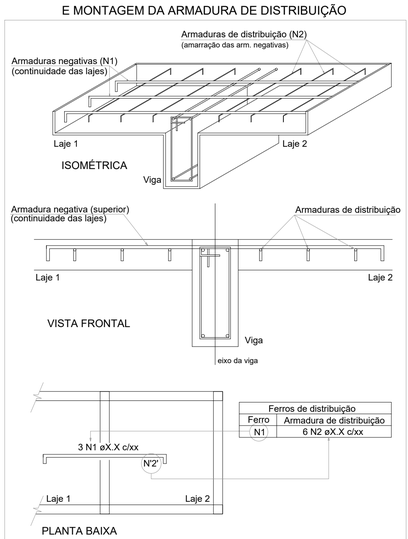
CONTEÚDO: DETALHAMENTO DE PILARES (P1 A P18)
DETALHAMENTO DE VIGAS (V1 A V21)

ART DA OBRA: MG20210151622
ÁREA TOTAL DO LOTE: 263,40 m²
ÁREA TOTAL CONTRUÍDA: 182,60 m²
ZONA: URBANA
RIO PARANAÍBA

FORMATO A1



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

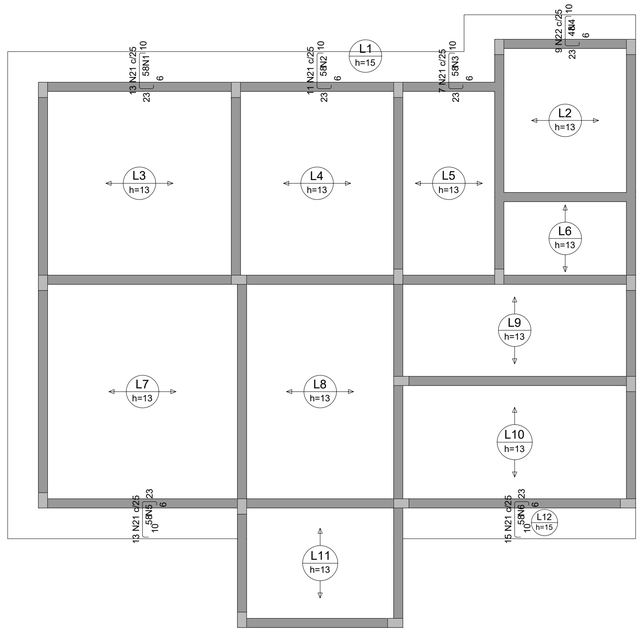


Ferros de distribuição	
Ferro	Armadura de distribuição
N1	6 N2 øX.X c/xx

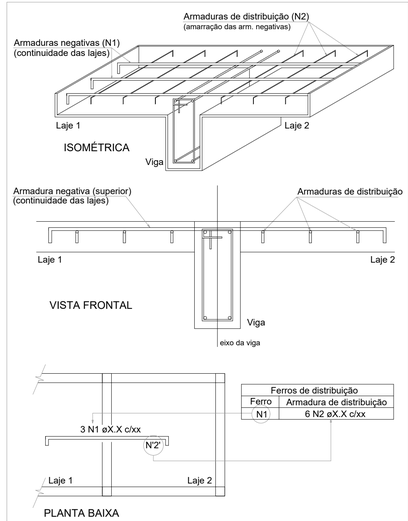
NOTA: A ARMADURA DE DISTRIBUIÇÃO DAS CONTINUIDADES DEVE SER ININTERRUPTA E COM TRASPASSE (CASO HAJA EMENDAS).

Armação negativa das lajes do pavimento Térreo (Eixo X)

escala 1:50



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

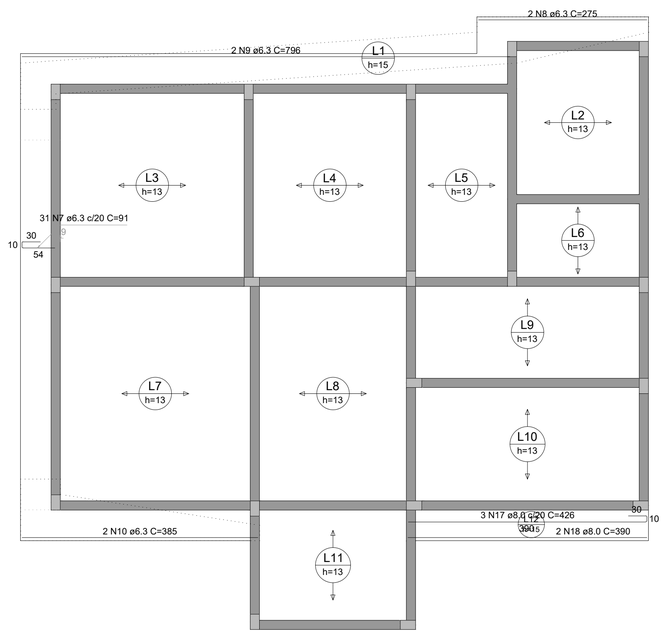


Ferros de distribuição	
Ferro	Armadura de distribuição
N1	6 N2 øX.X c/xx

NOTA: A ARMADURA DE DISTRIBUIÇÃO DAS CONTINUIDADES DEVE SER ININTERRUPTA E COM TRASPASSE (CASO HAJA EMENDAS).

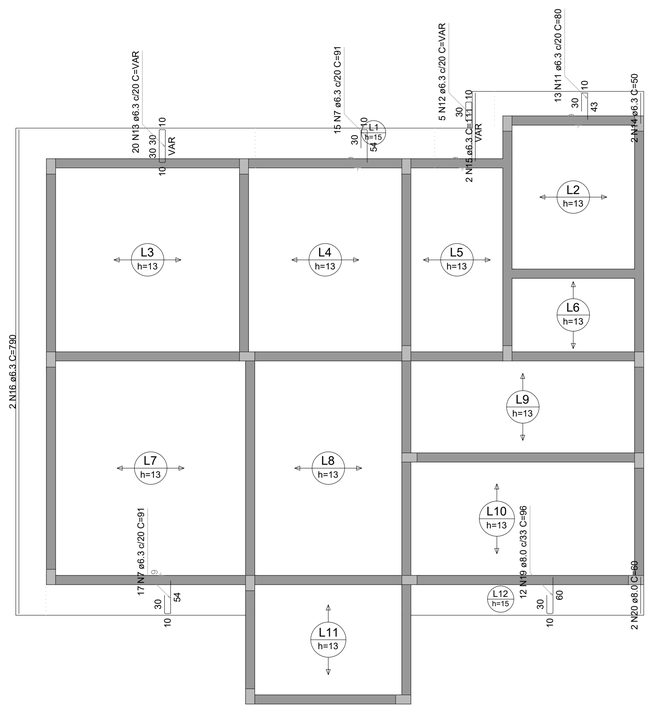
Armação negativa das lajes do pavimento Térreo (Eixo Y)

escala 1:50



Armação positiva das lajes do pavimento Térreo (Eixo X)

escala 1:50



Armação positiva das lajes do pavimento Térreo (Eixo Y)

escala 1:50

Planta de vigotas pré-moldadas

escala 1:50

CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
EMAIL: SEMOBITRP@GMAIL.COM
TEL. (34) 3855-1223

PROP.: PREFEITURA MUNICIPAL DE RIO PARANAÍBA
CNPJ: 18.602.045/0001-00

END. DA OBRA: Avenida José Mendes da Rocha, nº 345, Bairro Novo Horizonte
RIO PARANAÍBA - MG

R.T.: CAROLINA NAVES RIBEIRO
Engenheira Civil - CREA 214.519/D - MG

CAD: SEMOBIT

MARÇO/2021

ART DA OBRA: MG20210151622

ÁREA TOTAL DO LOTE: 263,40 m²

ÁREA TOTAL CONTRUÍDA: 182,60 m²

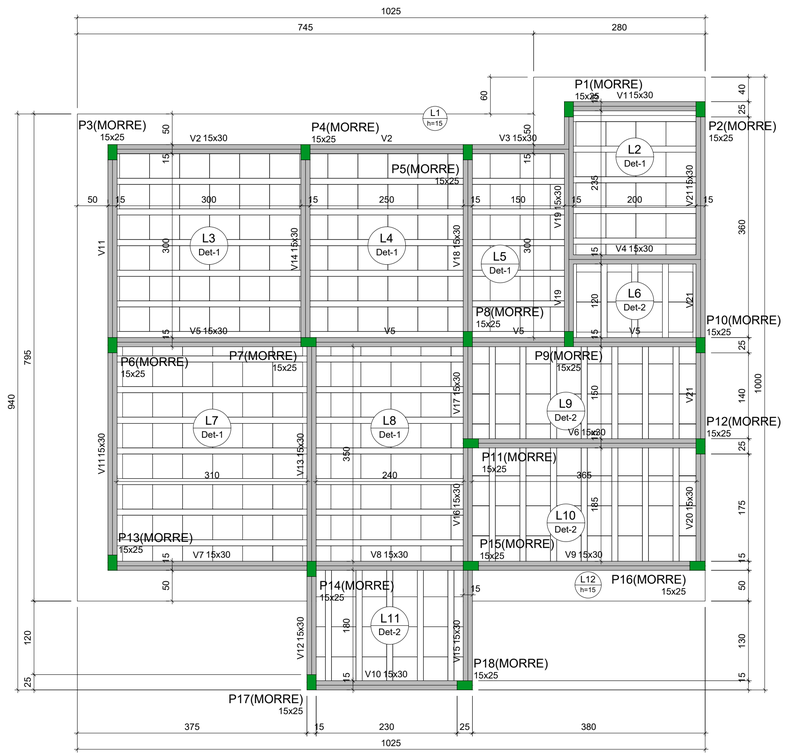
ZONA: URBANA
RIO PARANAÍBA

PROJETO: PROJETO ESTRUTURAL

FOLHA: 04/05

CONTEÚDO:
ARMAÇÕES NEGATIVAS DAS LAJES
ARMAÇÕES POSITIVAS DAS LAJES
PLANTA DE VIGOTAS PRÉ-MOLDADAS

FORMATO A1



Forma do pavimento Térreo (Nível 300)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x30	0	300
V2	15x30	0	300
V3	15x30	0	300
V4	15x30	0	300
V5	15x30	0	300
V6	15x30	0	300
V7	15x30	0	300
V8	15x30	0	300
V9	15x30	0	300
V10	15x30	0	300
V11	15x30	0	300
V12	15x30	0	300
V13	15x30	0	300
V14	15x30	0	300
V15	15x30	0	300
V16	15x30	0	300
V17	15x30	0	300
V18	15x30	0	300
V19	15x30	0	300
V20	15x30	0	300
V21	15x30	0	300

Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1/2	EPS Unidirecional	B8/40/49	8	40	49	308

Lajes								
Dados						Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Maciça	15	0	300	375	99	50	-
L2	Treliçada 1D	13	0	300	166	99	50	-
L3	Treliçada 1D	13	0	300	166	99	50	-
L4	Treliçada 1D	13	0	300	166	99	50	-
L5	Treliçada 1D	13	0	300	166	99	50	-
L6	Treliçada 1D	13	0	300	166	99	50	-
L7	Treliçada 1D	13	0	300	166	99	50	-
L8	Treliçada 1D	13	0	300	166	99	50	-
L9	Treliçada 1D	13	0	300	166	99	50	-
L10	Treliçada 1D	13	0	300	166	99	50	-
L11	Treliçada 1D	13	0	300	166	99	50	-
L12	Maciça	15	0	300	375	99	50	-

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
250	289800

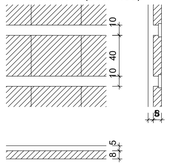
Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	15x25	0	300
P2	15x25	0	300
P3	15x25	0	300
P4	15x25	0	300
P5	15x25	0	300
P6	15x25	0	300
P7	15x25	0	300
P8	15x25	0	300
P9	15x25	0	300
P10	15x25	0	300
P11	15x25	0	300
P12	15x25	0	300
P13	15x25	0	300
P14	15x25	0	300
P15	15x25	0	300
P16	15x25	0	300
P17	15x25	0	300
P18	15x25	0	300

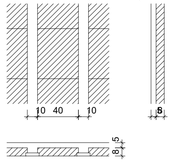
Legenda dos pilares	
	Pilar que morre

Legenda das vigas e paredes	
	Viga

Detalhe 1 (esc. 1:30)



Detalhe 2 (esc. 1:30)



CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
EMAIL: SEMOBITRP@GMAIL.COM
TEL. (34) 3855-1223

PROP.
PREFEITURA MUNICIPAL DE RIO PARANAÍBA
CNPJ: 18.602.045/0001-00

END. DA OBRA
Avenida José Mendes da Rocha, nº 345, Bairro Novo Horizonte
RIO PARANAÍBA - MG

R.T.:
CAROLINA NAVES RIBEIRO
Engenheira Civil - CREA 214.519/D - MG

CAD.
SEMOBIT

MARÇO/2021

PROJETO: PROJETO ESTRUTURAL
FOLHA: 05/05

ART DA OBRA
MG20210151622

ZONA:
URBANA
RIO PARANAÍBA

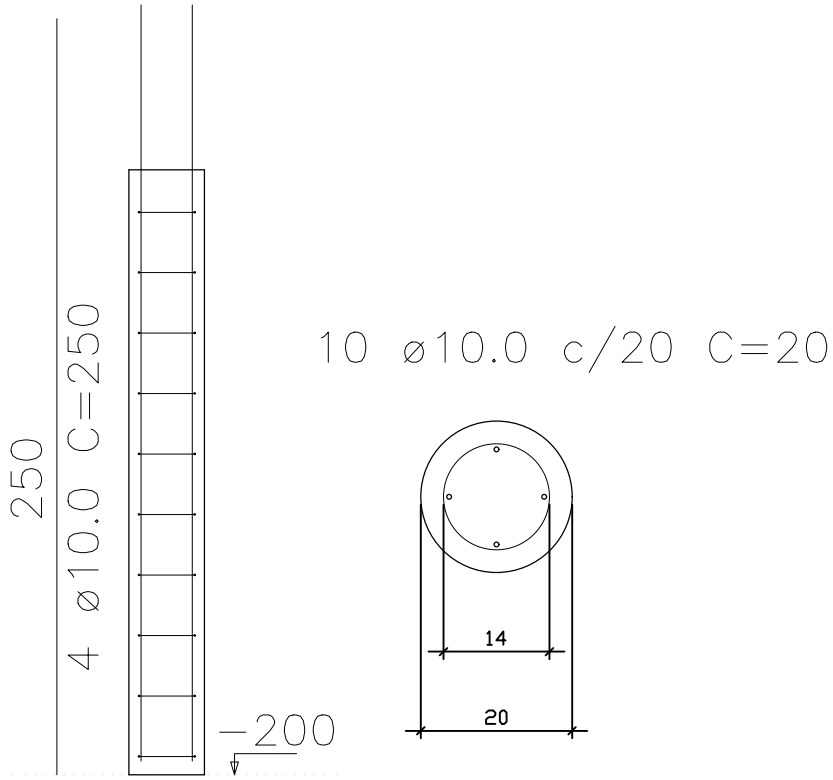
CONTEÚDO: PLANTA DE FORMA PAVIMENTO TÉRREO

ÁREA TOTAL DO LOTE
263,40 m²

ÁREA TOTAL CONTRUÍDA
182,60 m²

FORMATO A1

DETALHAMENTO ESTACA DE FUNDAÇÃO
P1=P2=P3=P4=P5=P6=P7=P8=P9=
P10=P11=P12=P13=P14=P15=P16=P17=P18



CONSTRUÇÃO DA BASE DESCENTRALIZADA DO SAMU 192 - RIO PARANAÍBA

PREFEITURA MUNICIPAL DE RIO PARANAÍBA
SECRETARIA MUNICIPAL DE INFRAESTRUTURA, OBRAS E TRANSPORTES
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PROP:	PREFEITURA MUNICIPAL DE RIO PARANAÍBA CNPJ: 18.602.045/0001-00
END. DA OBRA	Avenida José Mendes da Rocha, nº 345. Bairro Novo Horizonte RIO PARANAÍBA - MG
R.T.:	CAROLINA NAVES RIBEIRO Engenheira Civil - CREA 214.519/D - MG
CAD:	SEMOBIT
	MARÇO/2021
PROJETO:	PROJETO ESTRUTURAL
FOLHA:	01/01
ART DA OBRA	MG20210151622
ÁREA TOTAL DO LOTE	263,40 m²
ÁREA TOTAL CONTRUÍDA	182,60 m²
ZONA:	URBANA RIO PARANAÍBA
CONTEÚDO:	DETALHAMENTO ESTACA DE FUNDAÇÃO
FORMATO A1	