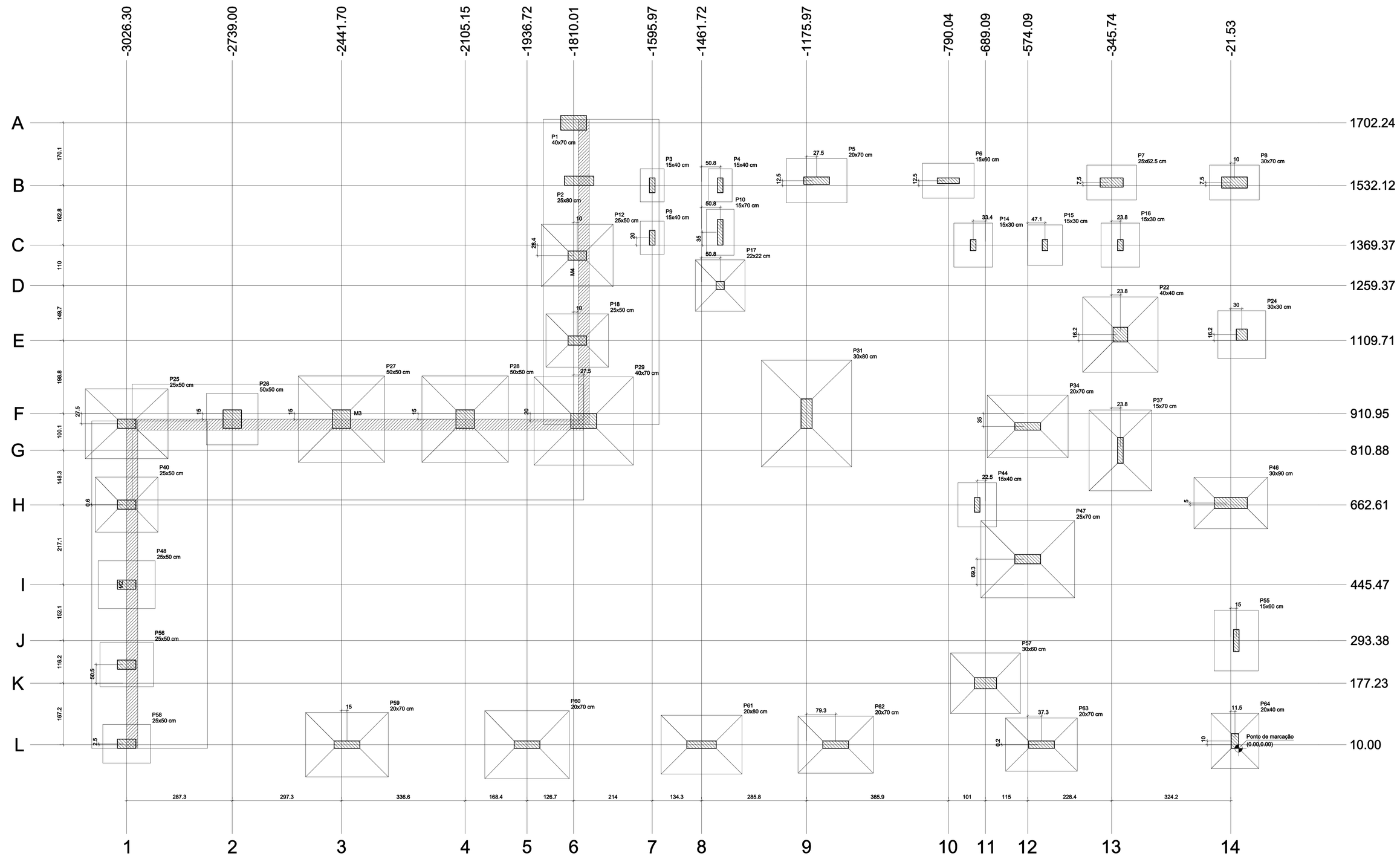
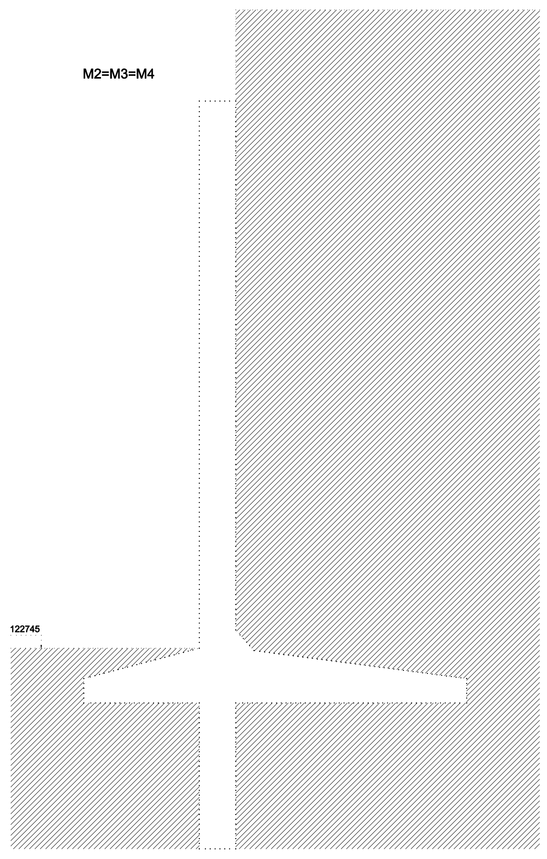


Planta de locação

escala 1:50

Pilar				
Nome	Seção	X	Y	Carga Máx.
P1	40x70	-1810.01	1702.24	114.5
P2	25x80	-1795.01	1544.62	4.9
P3	15x40	-1595.97	1532.12	23.1
P4	15x40	-1410.97	1532.12	16.0
P5	20x70	-1148.50	1544.62	44.5
P6	15x60	-790.04	1544.62	32.6
P7	25x62.5	-345.74	1539.62	29.8
P8	30x70	-11.53	1539.62	30.4
P9	15x40	-1595.97	1389.37	27.2
P10	15x70	-1410.97	1404.37	41.9
P12	25x50	-1800.01	1340.97	37.7
P14	15x30	-722.51	1369.37	22.5
P15	15x30	-526.99	1369.37	17.8
P16	15x30	-321.99	1369.37	16.6
P17	22x22	-1410.97	1259.37	6.0
P18	25x50	-1800.01	1109.71	25.8
P22	40x40	-321.99	1125.88	76.6
P24	30x30	6.50	1125.88	16.2
P25	25x50	-3026.30	883.45	12.4
P26	50x50	-2739.00	895.95	46.8
P27	50x50	-2441.70	895.95	66.6
P28	50x50	-2105.15	895.95	84.4
P29	40x70	-1782.51	890.95	103.4
P31	30x80	-1175.97	910.95	252.2
P34	20x70	-574.09	875.95	81.8
P37	15x70	-321.99	810.88	41.7
P40	25x50	-3026.30	663.21	19.3
P44	15x40	-711.59	662.61	23.0
P46	30x90	-21.53	667.61	66.1
P47	25x70	-574.09	514.73	92.7
P48	25x50	-3026.30	445.47	35.2
P55	15x60	-6.50	293.38	30.0
P56	25x50	-3026.30	227.73	27.2
P57	30x60	-689.09	177.23	63.8
P58	25x50	-3026.30	12.50	27.6
P59	20x70	-2426.72	10.00	87.9
P60	20x70	-1936.72	10.00	100.2
P61	20x80	-1461.72	10.00	67.3
P62	20x70	-1096.72	10.00	65.2
P63	20x70	-536.78	10.17	64.3
P64	20x40	-10.00	20.00	36.0



Legenda dos muros

escala 1:25

PROJETO ESTRUTURAL REVISÃO 01

RESPONSÁVEL TÉCNICO:
macedo Projetos e Engenharia
www.macedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-07
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea MG - 81.764/D
RUA MARGARIDA CORTONA, Nº 58, CANAAN, FUNILÂNDIA/MG
FONE: (31) 3771-0354 - 3773-9956

CONTEÚDO DESTA PRANCHA:
• Planta de Locação

PRANCHA: 01/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

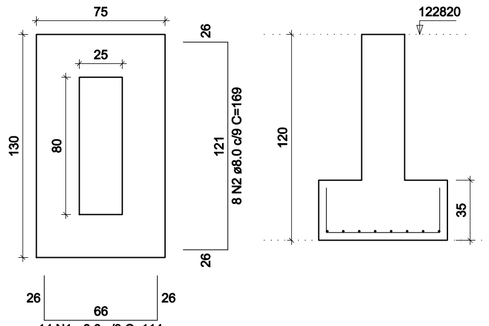
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JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

S2

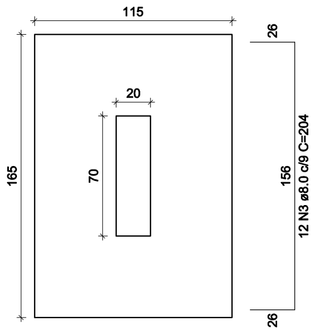
PLANTA
ESC 1:25



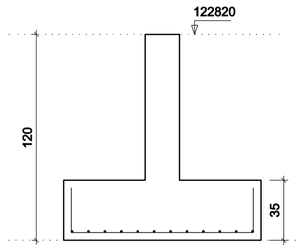
CORTE
ESC 1:25

S5

PLANTA
ESC 1:25

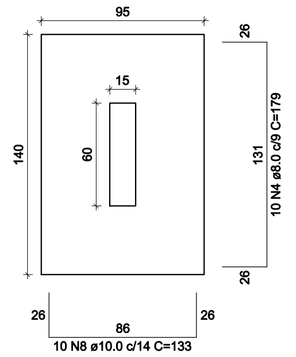


CORTE
ESC 1:25

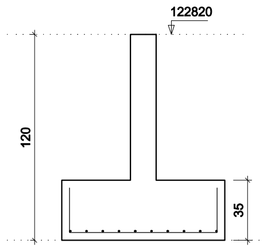


S6

PLANTA
ESC 1:25

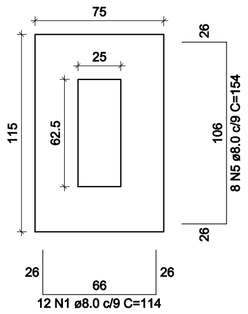


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ESC 1:25

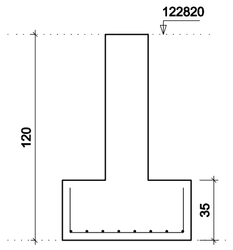


S7

PLANTA
ESC 1:25

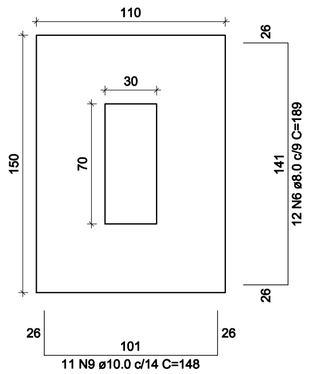


CORTE
ESC 1:25

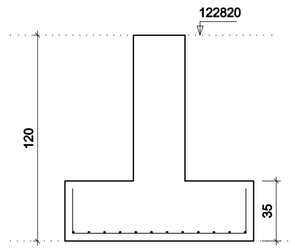


S8

PLANTA
ESC 1:25

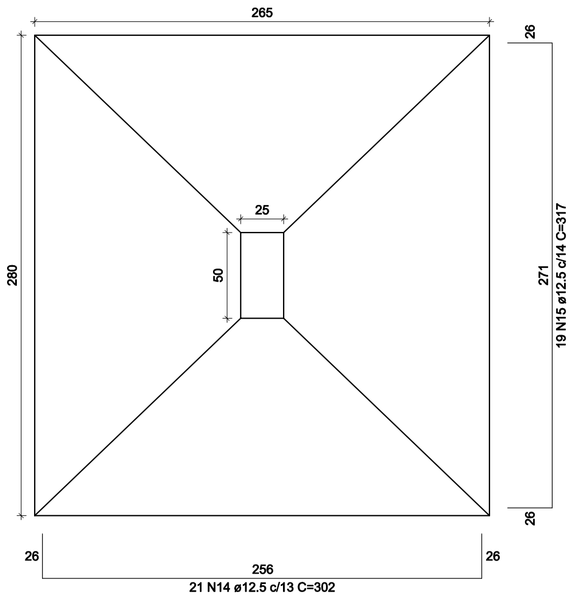


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ESC 1:25

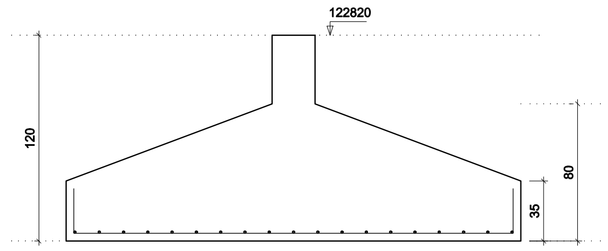


S12

PLANTA
ESC 1:25

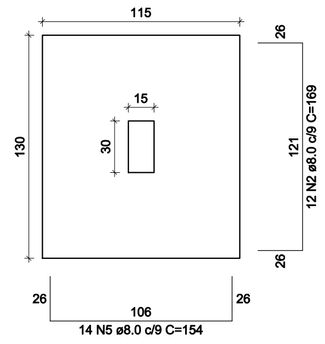


CORTE
ESC 1:25

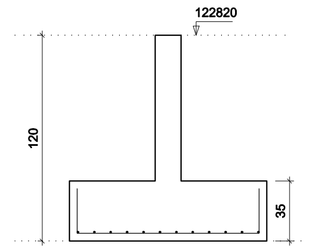


S14=S15

PLANTA
ESC 1:25



CORTE
ESC 1:25



RELAÇÃO DO AÇO

S2	S5	S8
S7	S8	S12
2xS14	2xS16	S17
S18	S22	S24

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	26	114	2964
	2	8.0	32	169	5408
	3	8.0	12	204	2448
	4	8.0	10	179	1790
	5	8.0	36	154	5544
	6	8.0	12	189	2268
	7	10.0	12	153	1836
	8	10.0	10	133	1330
	9	10.0	11	148	1628
	10	10.0	24	188	4512
	11	10.0	22	203	4466
	12	10.0	22	183	4026
	13	10.0	34	228	7752
	14	12.5	21	302	6342
	15	12.5	19	317	6023
	16	12.5	19	287	5453
	17	12.5	17	307	5219
	18	12.5	36	297	10692

RESUMO DO AÇO

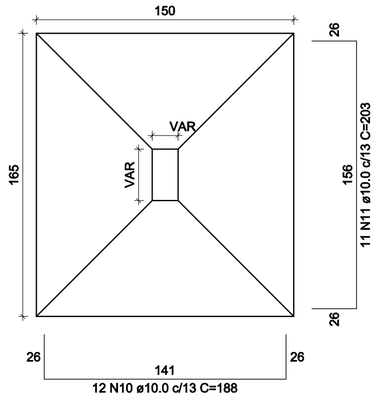
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	8.0	204.2	18	12 m	80.6
	10.0	255.5	22	12 m	157.5
	12.5	337.3	29	12 m	324.9

PESO TOTAL (kg)	
CA50	563

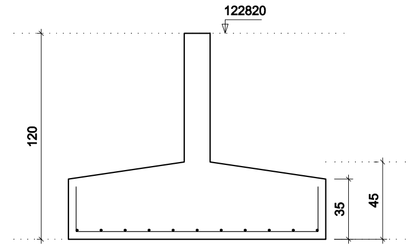
Volume de concreto (C-30) = 18.39 m³
Área de forma = 31.82 m²

S16=S64

PLANTA
ESC 1:25

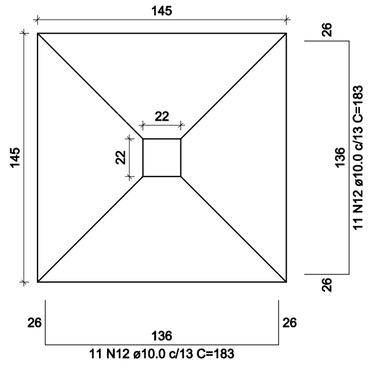


CORTE
ESC 1:25

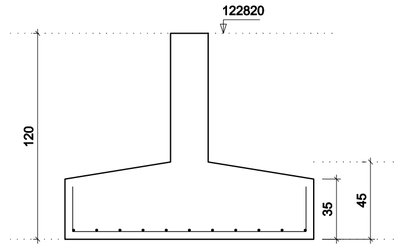


S17

PLANTA
ESC 1:25

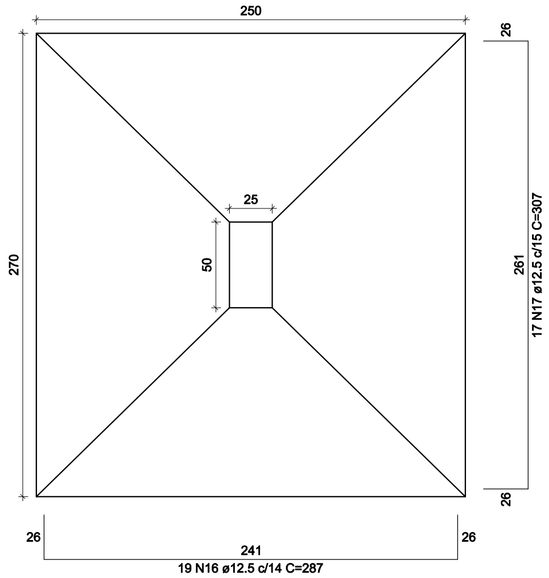


CORTE
ESC 1:25

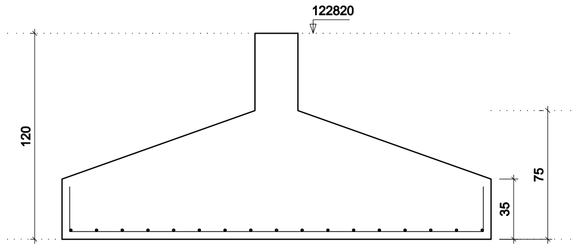


S18

PLANTA
ESC 1:25

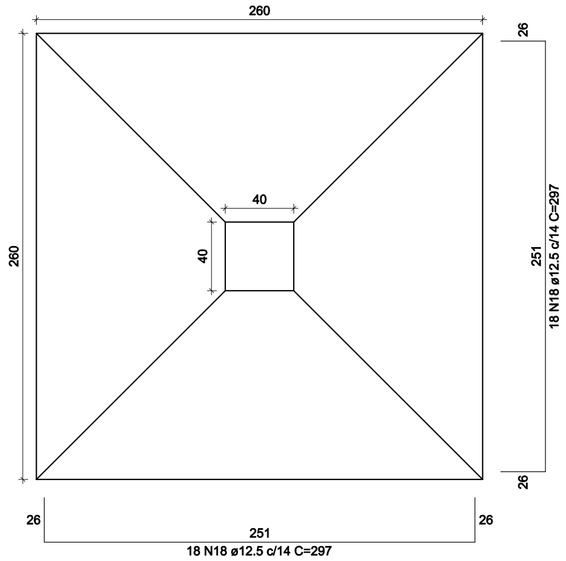


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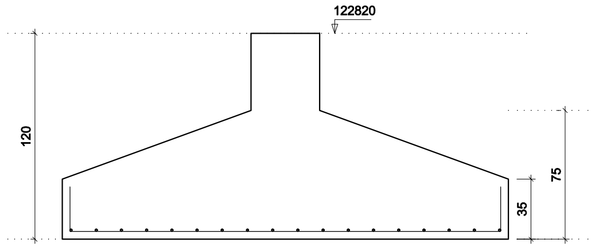


S22

PLANTA
ESC 1:25

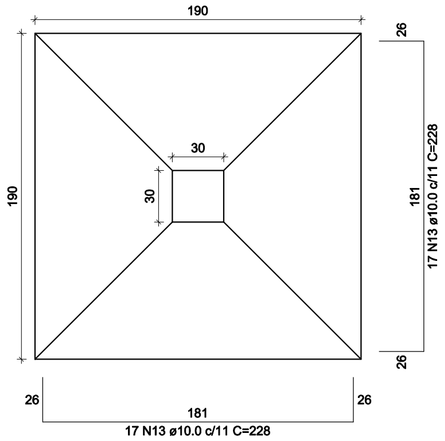


CORTE
ESC 1:25

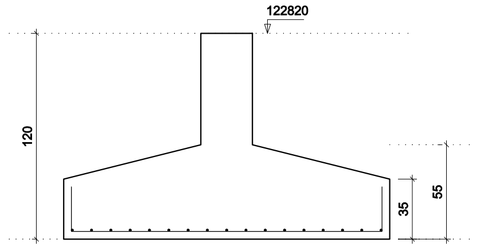


S24

PLANTA
ESC 1:25



CORTE
ESC 1:25



PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

.macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº379, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Armação das Sapatas 01-04

PRANCHA: 02/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

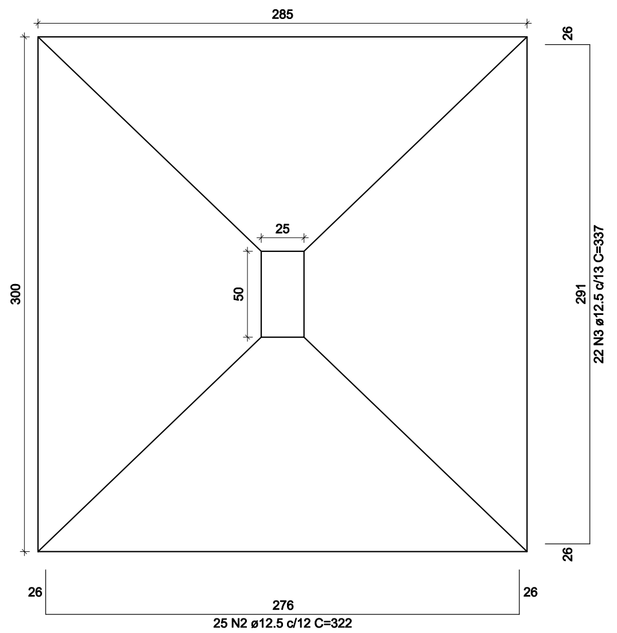
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JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

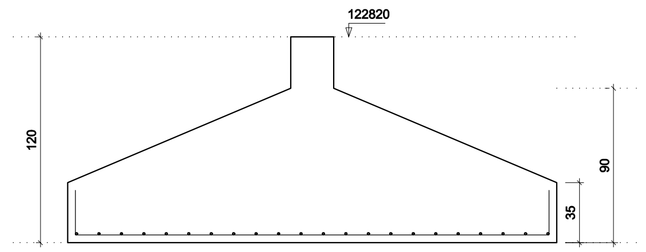
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

S25

PLANTA
ESC 1:25

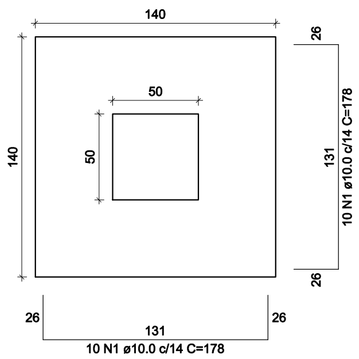


CORTE
ESC 1:25

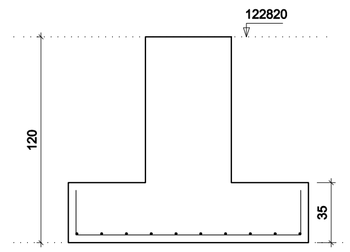


S26

PLANTA
ESC 1:25



CORTE
ESC 1:25



RELAÇÃO DO AÇO

S25 S26 S27
S28 S29 S31

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	10.0	20	178	3560
	2	12.5	25	322	8050
	3	12.5	65	337	21905
	4	12.5	23	332	7636
	5	12.5	17	297	5049
	6	12.5	17	292	4964
	7	12.5	23	317	7291
	8	16.0	22	281	6182
	9	16.0	22	331	7282

RESUMO DO AÇO

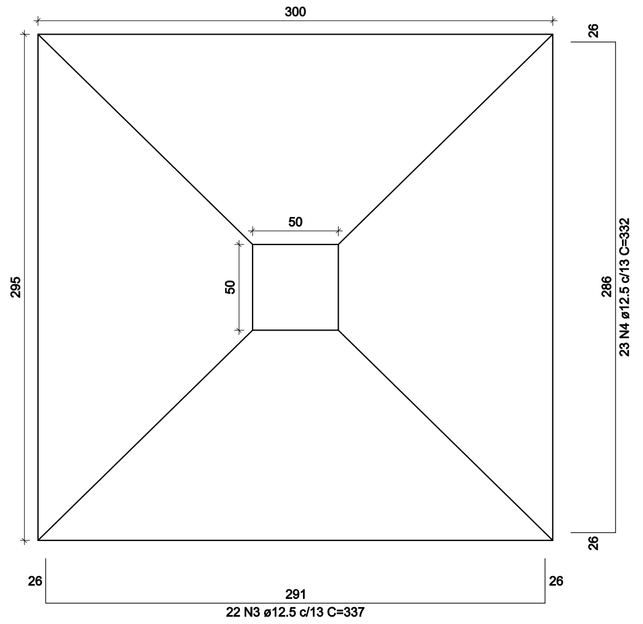
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	35.6	3	12 m	21.9
	12.5	549	46	12 m	528.8
	16.0	134.6	12	12 m	212.5

PESO TOTAL (kg)	
CA50	763.3

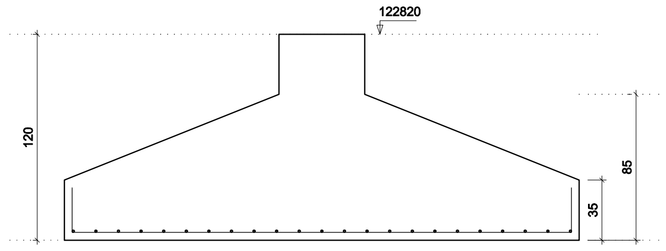
Volume de concreto (C-30) = 21.77 m³
Área de forma = 21.67 m²

S27

PLANTA
ESC 1:25

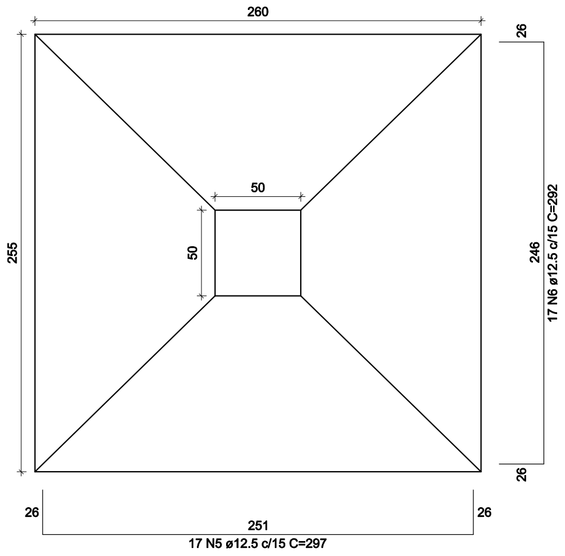


CORTE
ESC 1:25

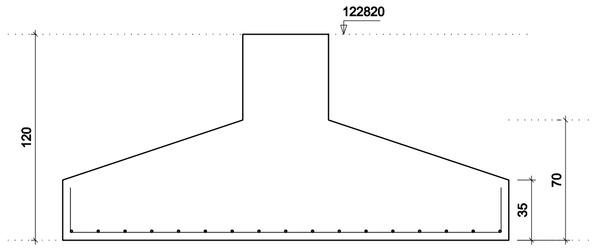


S28

PLANTA
ESC 1:25

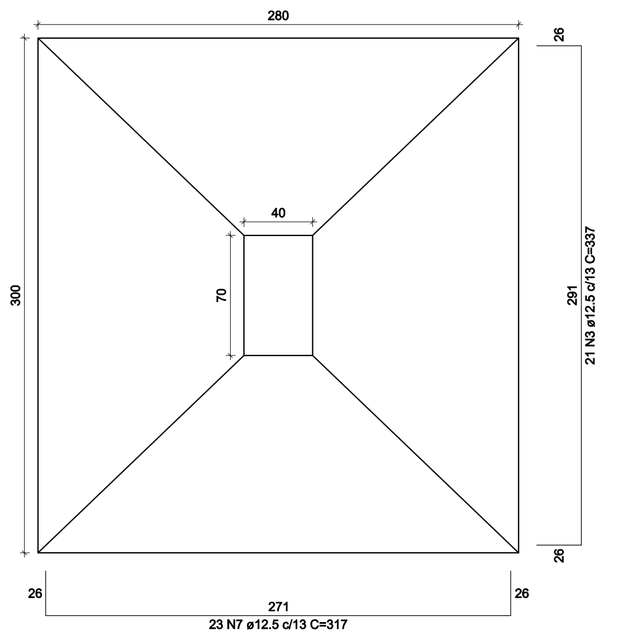


CORTE
ESC 1:25

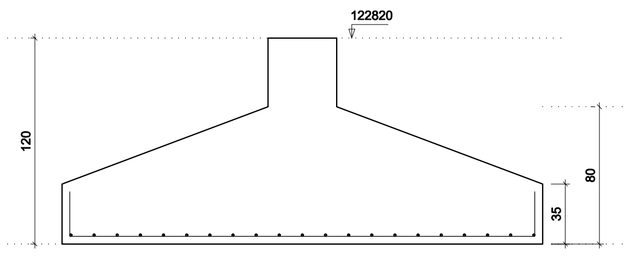


S29

PLANTA
ESC 1:25

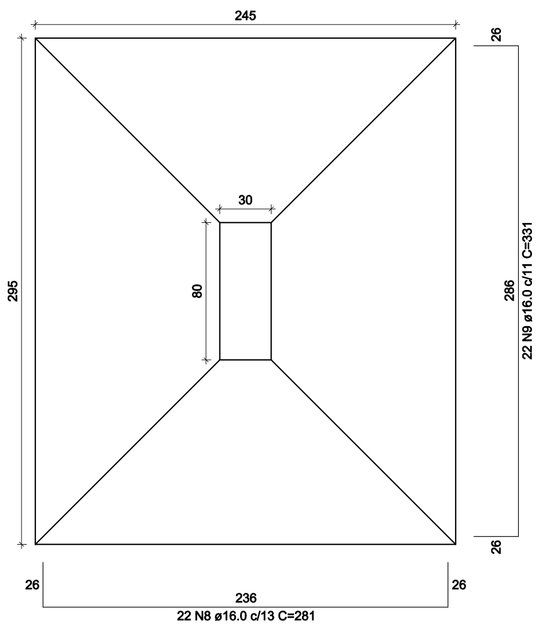


CORTE
ESC 1:25

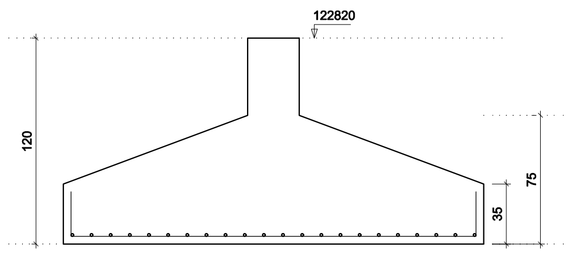


S31

PLANTA
ESC 1:25



CORTE
ESC 1:25



PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

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RESPONSÁVEL TÉCNICO:

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CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº739, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Armação das Sapatas 02-04

PRANCHA: 03/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

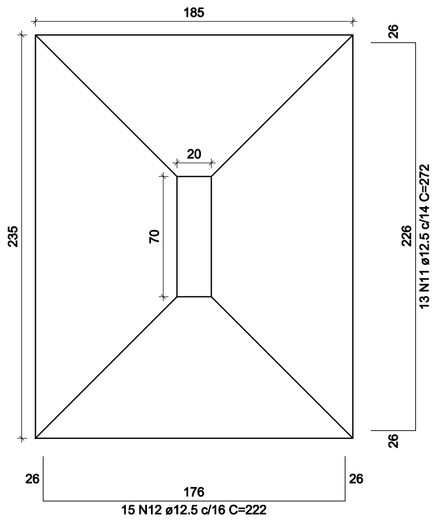
CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

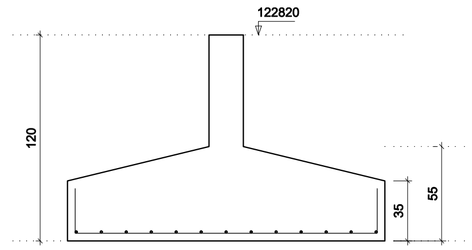
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

S34=S60

PLANTA
ESC 1:25

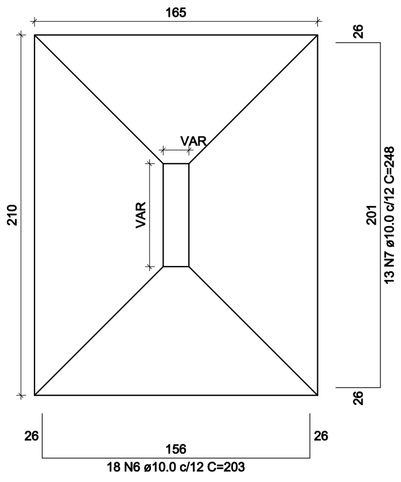


CORTE
ESC 1:25

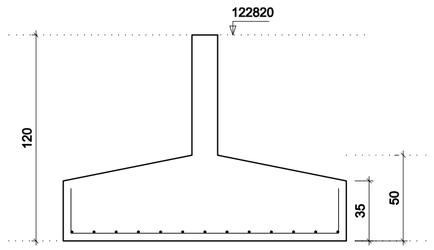


S37=S55=S62

PLANTA
ESC 1:25



CORTE
ESC 1:25



RELAÇÃO DO AÇO

S40
S47
S56
S44
S48
2xS60
S46
3xS55

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	13	139	1807
	2	8.0	11	164	1804
	3	10.0	42	183	7686
	4	10.0	12	243	2916
	5	10.0	10	208	2080
	6	10.0	54	203	10962
	7	10.0	39	248	9672
	8	10.0	11	213	2343
	9	12.5	21	292	6132
	10	12.5	37	317	11729
	11	12.5	45	272	12240
	12	12.5	30	222	6660

RESUMO DO AÇO

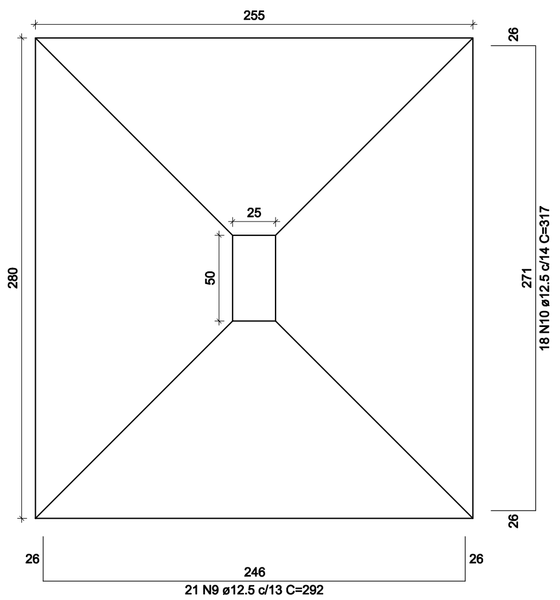
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	8.0	36.1	4	12 m	14.2
	10.0	356.6	30	12 m	219.9
	12.5	367.6	31	12 m	354.1

PESO TOTAL (kg)	
CA50	588.2

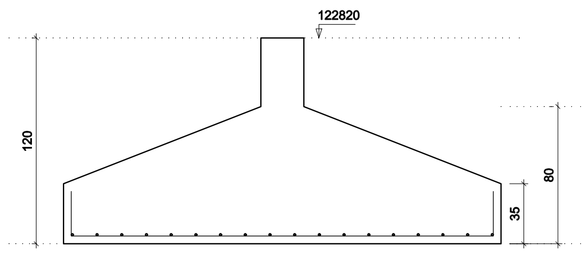
Volume de concreto (C-30) = 18.41 m³
Área de forma = 29.58 m²

S40

PLANTA
ESC 1:25

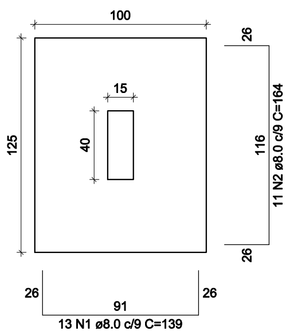


CORTE
ESC 1:25

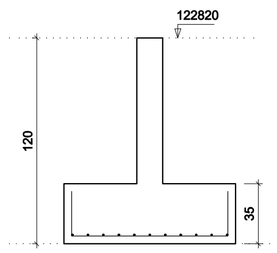


S44

PLANTA
ESC 1:25

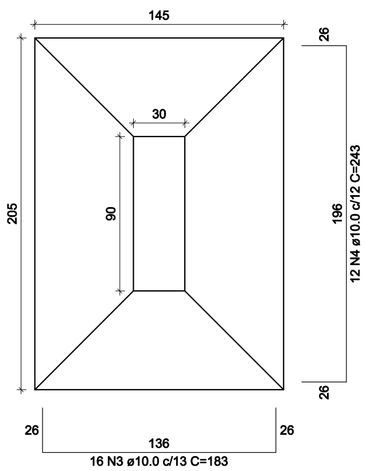


CORTE
ESC 1:25

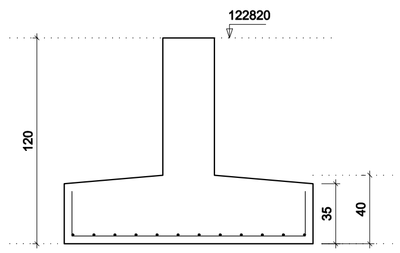


S46

PLANTA
ESC 1:25

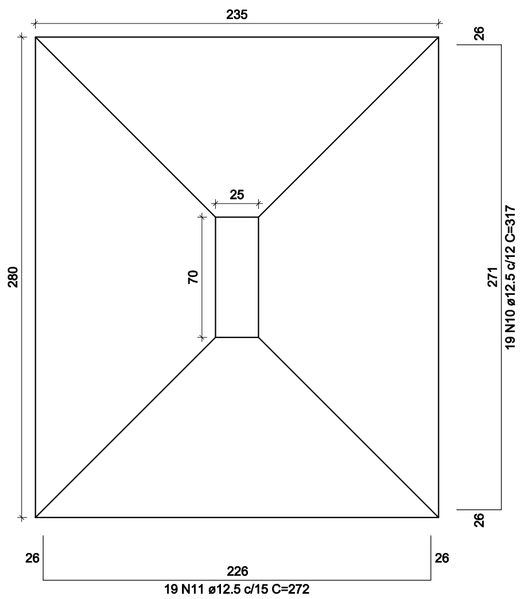


CORTE
ESC 1:25

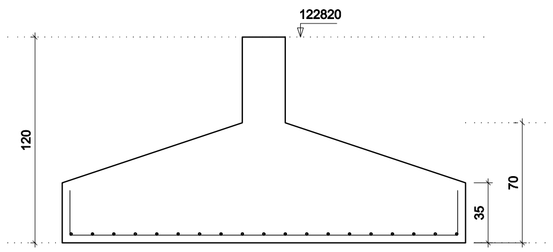


S47

PLANTA
ESC 1:25

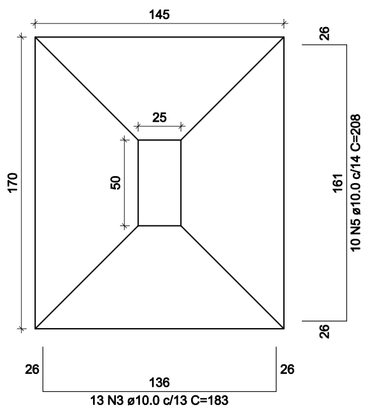


CORTE
ESC 1:25

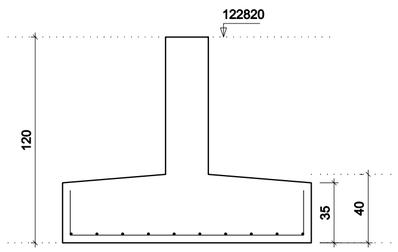


S48

PLANTA
ESC 1:25

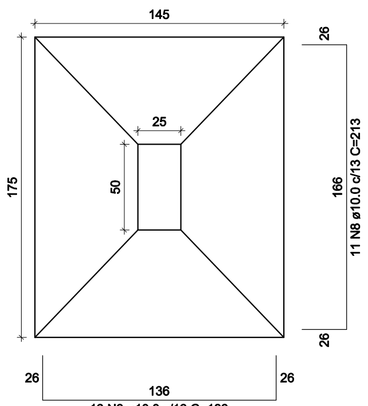


CORTE
ESC 1:25

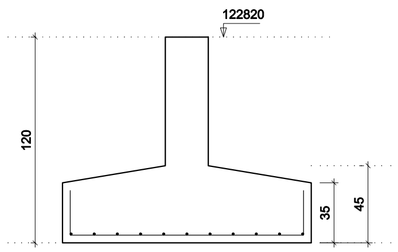


S56

PLANTA
ESC 1:25



CORTE
ESC 1:25



PROJETO ESTRUTURAL

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RESPONSÁVEL TÉCNICO:

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CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Armação das Sapatas 03-04

PRANCHA: 04/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

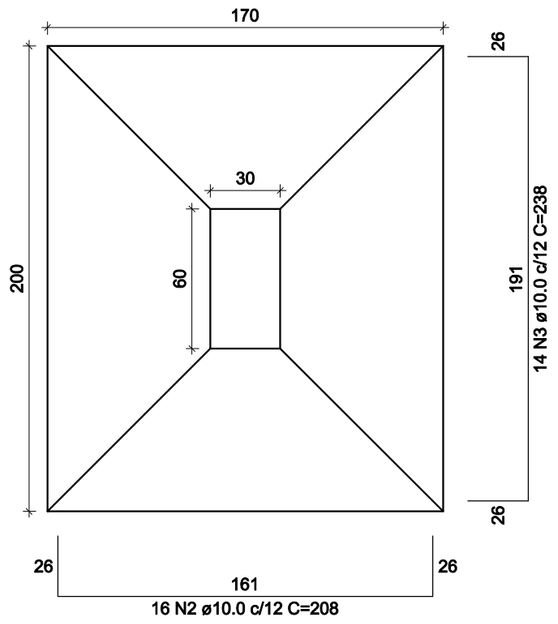
CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

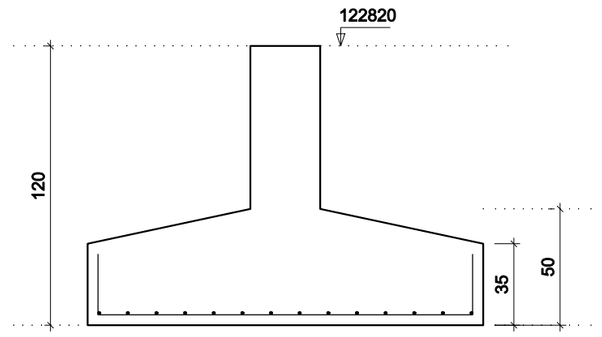
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

S57

PLANTA
ESC 1:25

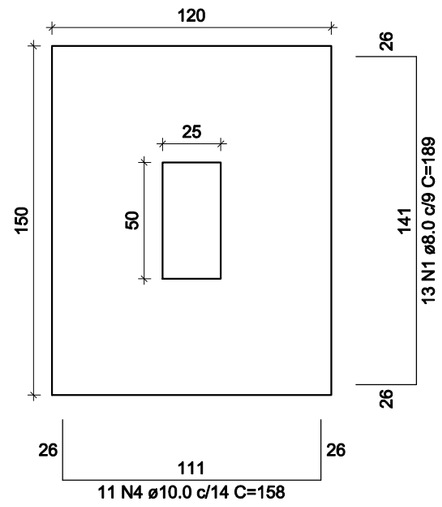


CORTE
ESC 1:25

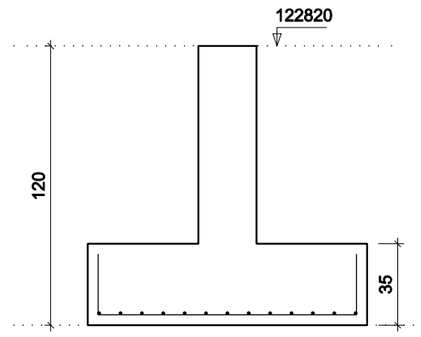


S58

PLANTA
ESC 1:25

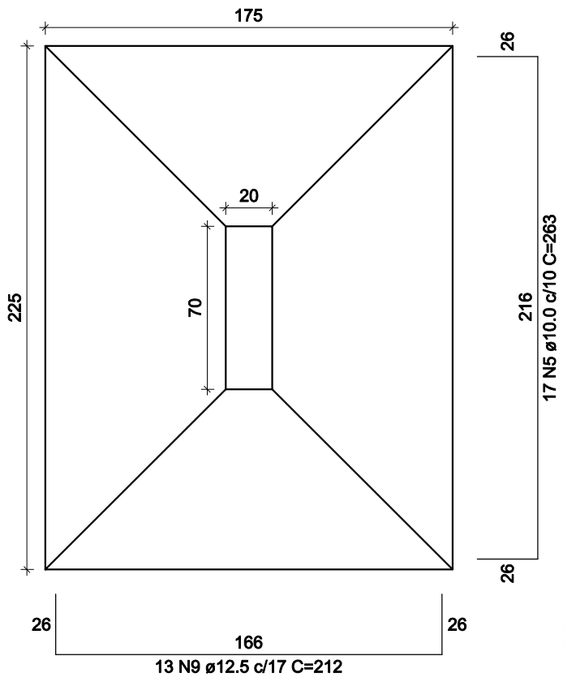


CORTE
ESC 1:25

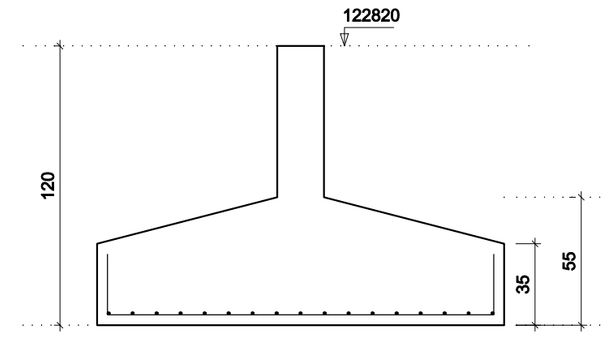


S59

PLANTA
ESC 1:25

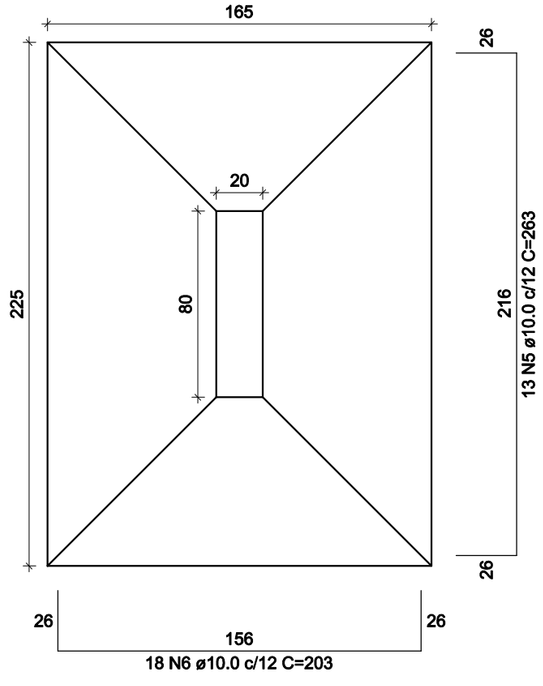


CORTE
ESC 1:25

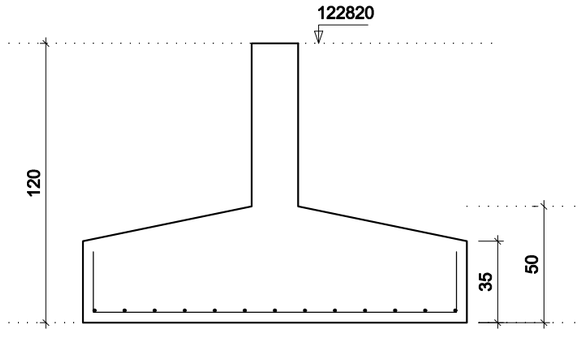


S61

PLANTA
ESC 1:25

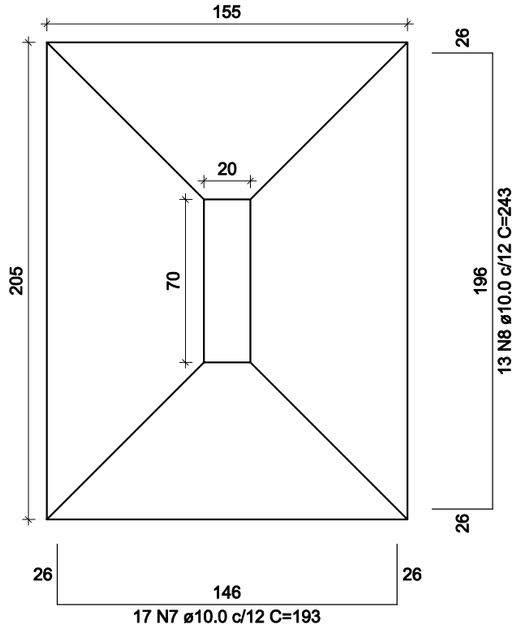


CORTE
ESC 1:25

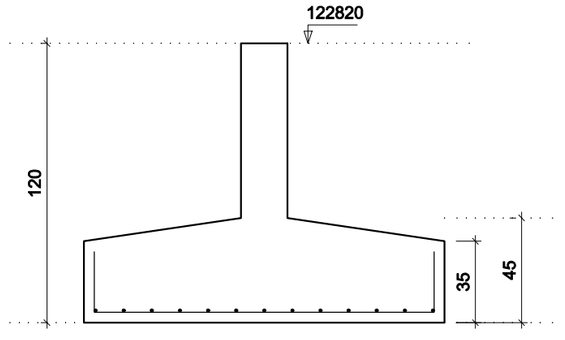


S63

PLANTA
ESC 1:25



CORTE
ESC 1:25



RELAÇÃO DO AÇO

S57 S58 S59
S61 S63

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	8.0	13	189	2457
	2	10.0	16	208	3328
	3	10.0	14	238	3332
	4	10.0	11	158	1738
	5	10.0	30	263	7890
	6	10.0	18	203	3654
	7	10.0	17	193	3281
	8	10.0	13	243	3159
	9	12.5	13	212	2756

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	8.0	24.6	3	12 m	9.7
	10.0	263.8	22	12 m	162.7
	12.5	27.6	3	12 m	26.5

PESO TOTAL (kg)	
CA50	198.9

Volume de concreto (C-30) = 6.51 m³
Área de forma = 12.53 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

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Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
* Armação das Sapatas 04-04

PRANCHA: 05/27

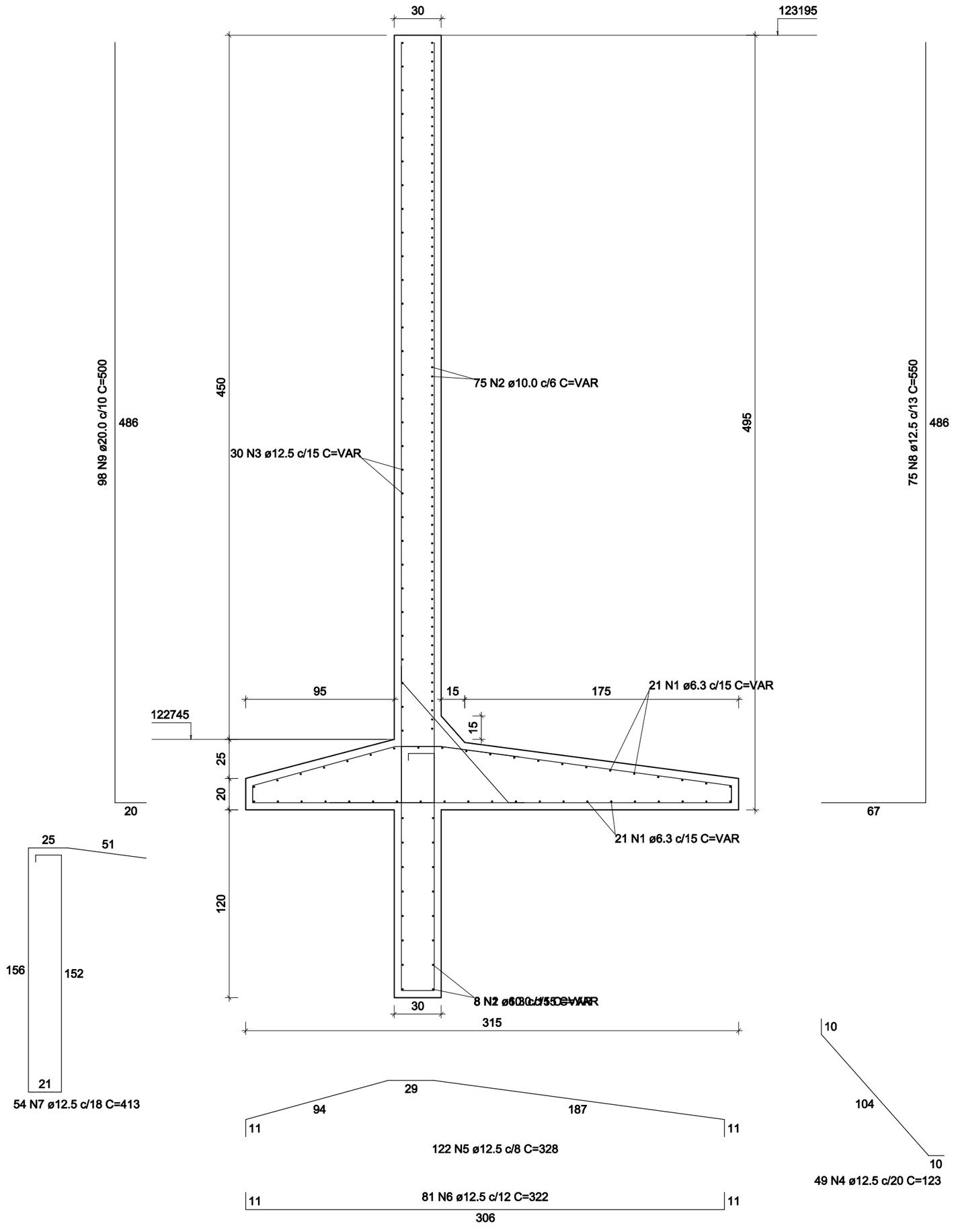
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

M2=M3=M4
ESC 1:25



RELAÇÃO DO AÇO

3xM2

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	150	VAR	VAR
	2	10.0	249	VAR	VAR
	3	12.5	90	VAR	VAR
	4	12.5	147	123	18081
	5	12.5	366	328	120048
	6	12.5	243	322	78246
	7	12.5	162	413	66906
	8	12.5	225	550	123750
	9	20.0	294	500	147000

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	1474.5	123	12 m	360.8
	10.0	2447.7	204	12 m	1509.1
	12.5	4955	413	12 m	4773.4
	20.0	1470	123	12 m	3625.2
PESO TOTAL (kg)					
CA50	10268.5				

Volume de concreto (C-30) = 82.10 m³
Área de forma = 533.27 m²

PROJETO ESTRUTURAL

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FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
* Armação das Sapatas 04–04

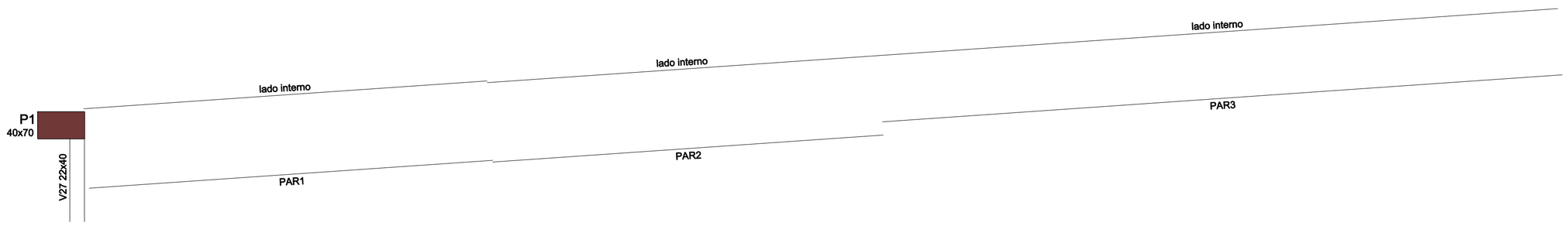
PRANCHA: 06/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

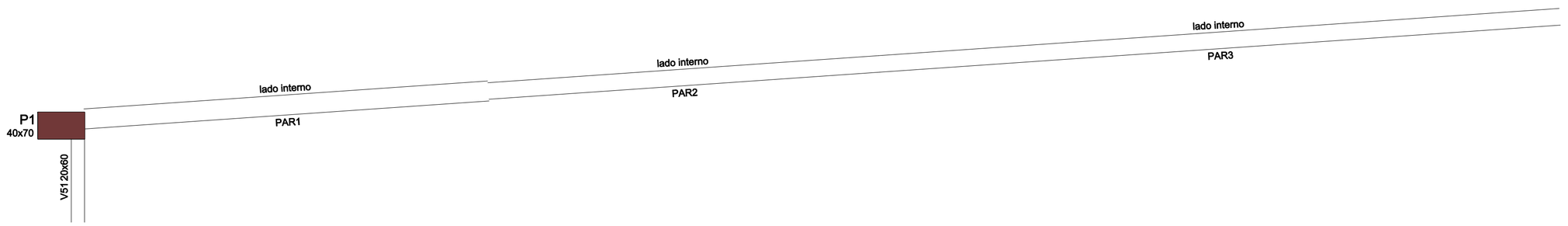
USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90



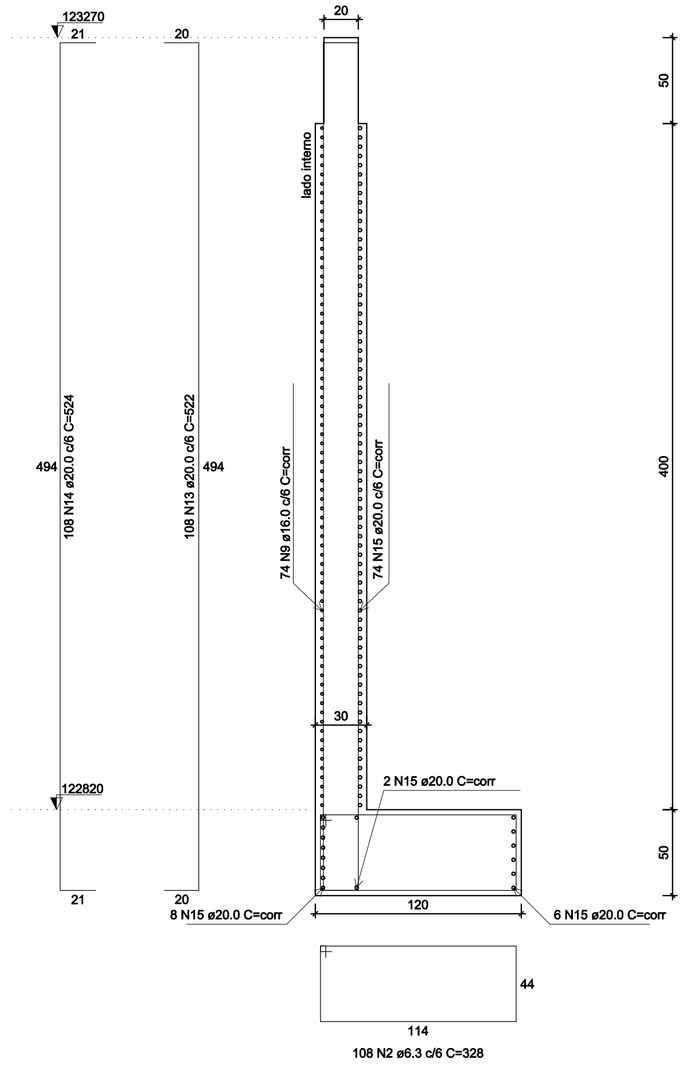
Contenções do pavimento FUNDAÇÃO

escala 1:50



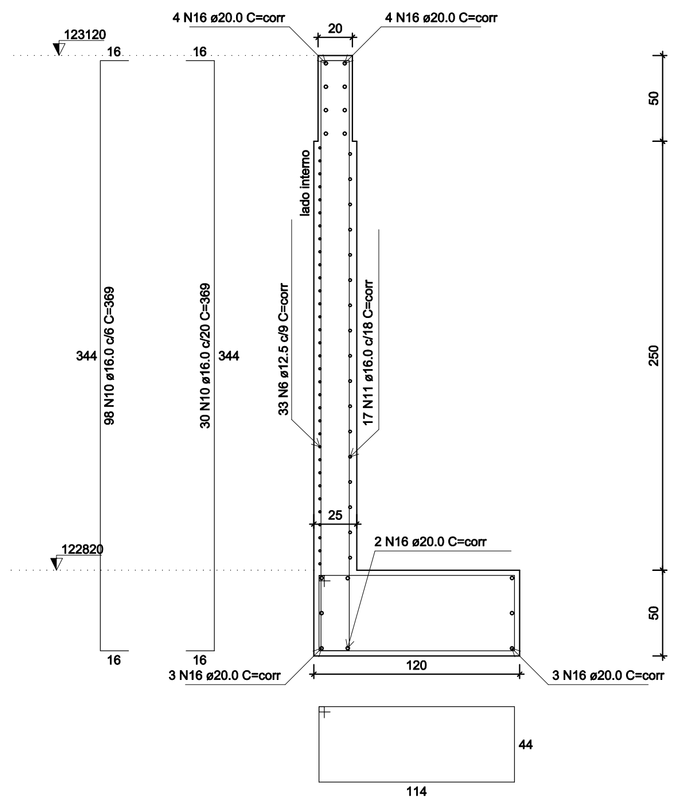
Contenções do pavimento PAVT 1 INT

escala 1:50



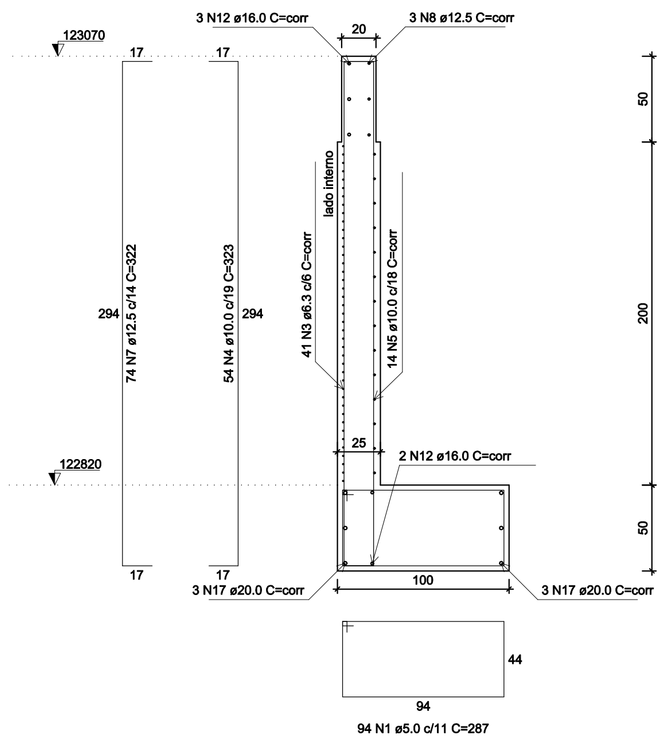
PAR1

ESC 1:25



PAR2

ESC 1:25



PAR3

ESC 1:25

RELAÇÃO DO AÇO

PAR1 PAR2 PAR3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	94	287	26978
CA50	2	6.3	193	328	63304
	3	6.3	41	corr	42025
	4	10.0	54	323	17442
	5	10.0	14	corr	14350
	6	12.5	33	corr	19437
	7	12.5	74	322	23828
	8	12.5	3	corr	3075
	9	16.0	74	corr	47582
	10	16.0	128	369	47232
	11	16.0	17	corr	10013
	12	16.0	5	corr	5125
	13	20.0	108	522	56376
	14	20.0	108	524	56592
	15	20.0	90	corr	57870
	16	20.0	16	corr	9424
	17	20.0	6	corr	6150

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	1053.3	88	12 m	257.7
	10.0	317.9	27	12 m	196
	12.5	463.4	39	12 m	448.4
	16.0	1099.5	92	12 m	1735.4
	20.0	1864.1	156	12 m	4597.2
CA60	5.0	269.8	23	12 m	41.6

PESO TOTAL (kg)	
CA50	7232.8
CA60	41.6

Volume de concreto (C-35) = 31.29 m³
Área de forma = 190.60 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA: • Armação das Sapatas 03-04

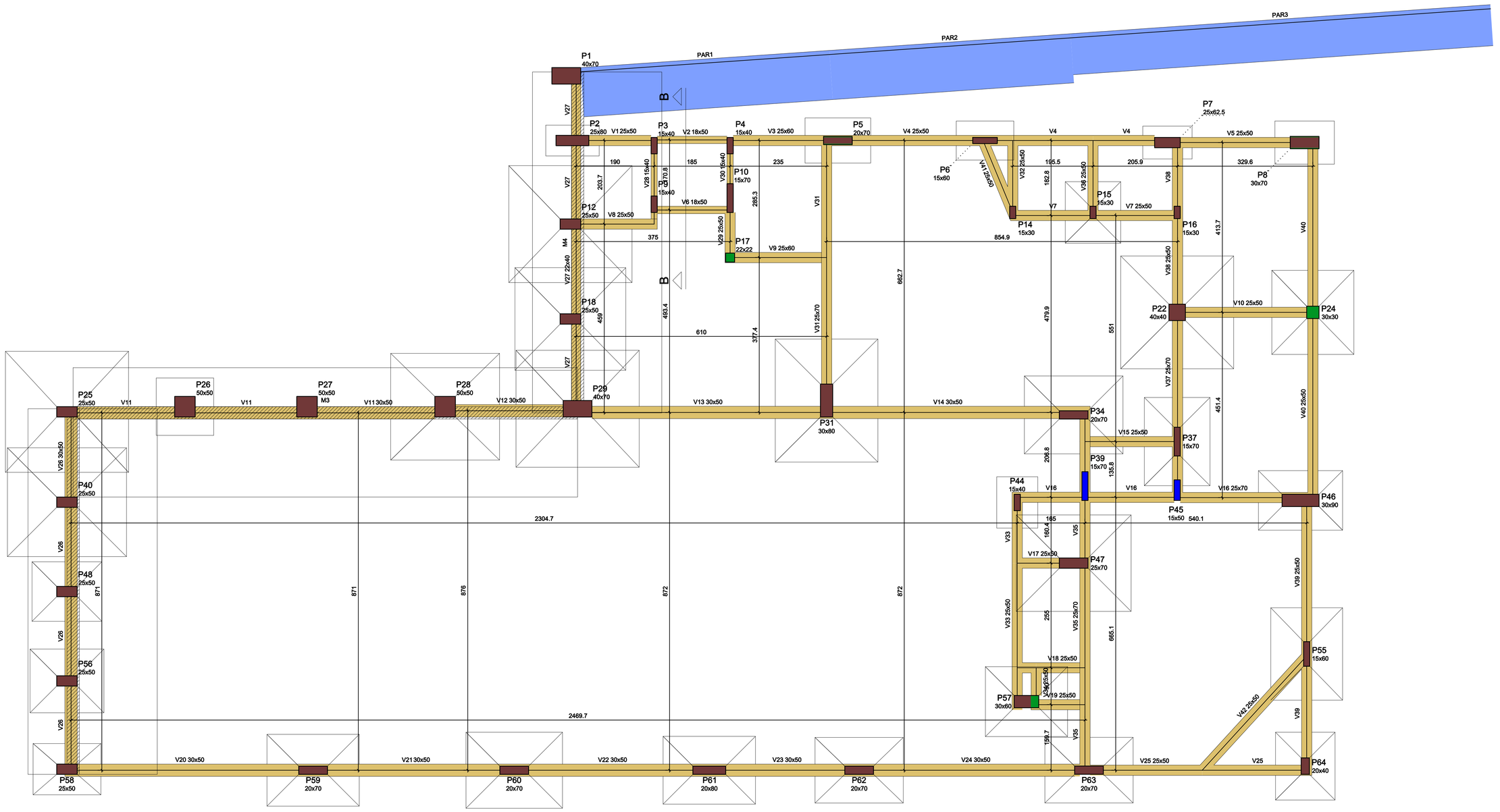
PRANCHA: 07/27

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO: CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90



Forma da FUNDAÇÃO (Nível 122820)

escala 1:50

Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	25x50	0	122820
V2	18x50	0	122820
V3	25x60	0	122820
V4	25x50	0	122820
V5	25x50	0	122820
V6	18x50	0	122820
V7	25x50	0	122820
V8	25x50	0	122820
V9	25x60	0	122820
V10	25x50	0	122820
V11	30x50	0	122820
V12	30x50	0	122820
V13	30x50	0	122820
V14	30x50	0	122820
V15	25x50	0	122820
V16	25x70	0	122820
V17	25x50	0	122820
V18	25x50	0	122820
V19	25x50	0	122820
V20	30x50	0	122820
V21	30x50	0	122820
V22	30x50	0	122820
V23	30x50	0	122820
V24	30x50	0	122820
V25	25x50	0	122820
V26	30x50	0	122820
V27	22x40	0	122820
V28	15x40	0	122820
V29	25x50	0	122820
V30	15x40	0	122820
V31	25x70	0	122820
V32	25x50	0	122820
V33	25x50	0	122820
V34	25x50	0	122820
V35	25x70	0	122820
V36	25x50	0	122820
V37	25x70	0	122820
V38	25x50	0	122820
V39	25x50	0	122820
V40	25x50	0	122820
V41	25x50	0	122820
V42	25x50	0	122820

Características dos materiais

Elemento	fck (kgf/cm²)
Vigas	300
Pilares	300
Reservatórios	250
Sapatas	300

Pilares

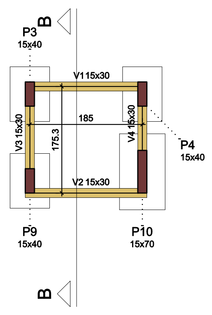
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	40 x 70	0	122820
P2	25 x 80	0	122820
P3	15 x 40	0	122820
P4	15 x 40	0	122820
P5	20 x 70	0	122820
P6	15 x 60	0	122820
P7	25 x 62.5	0	122820
P8	30 x 70	0	122820
P9	15 x 40	0	122820
P10	15 x 70	0	122820
P12	25 x 50	0	122820
P14	15 x 30	0	122820
P15	15 x 30	0	122820
P16	15 x 30	0	122820
P17	22 x 22	0	122820
P18	25 x 50	0	122820
P22	40 x 40	0	122820
P24	30 x 30	0	122820
P25	25 x 50	0	122820
P26	50 x 50	0	122820
P27	50 x 50	0	122820
P28	50 x 50	0	122820
P29	40 x 70	0	122820
P31	30 x 80	0	122820
P34	20 x 70	0	122820
P37	15 x 70	0	122820
P39	15 x 70	0	122820
P40	25 x 50	0	122820
P44	15 x 40	0	122820
P45	15 x 50	0	122820
P46	30 x 90	0	122820
P47	25 x 70	0	122820
P48	25 x 60	0	122820
P55	15 x 60	0	122820
P56	25 x 50	0	122820
P57	30 x 80	0	122820
P58	25 x 50	0	122820
P59	20 x 70	0	122820
P60	20 x 70	0	122820
P61	20 x 80	0	122820
P62	20 x 70	0	122820
P63	20 x 70	0	122820
P64	20 x 40	0	122820

Legenda dos pilares

- Pilar que morre
- Pilar que passa
- Pilar que nasce
- Pilar com mudança de seção

Legenda das vigas e paredes

- Viga
- Parede de concreto



Forma do FOSSO ELEVADOR (Nível 122700)

escala 1:50

Vigas

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x30	0	122700
V2	15x30	0	122700
V3	15x30	0	122700
V4	15x30	0	122700

Características dos materiais

fck (kgf/cm²)
300

Pilares

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P3	15 x 40	0	122700
P4	15 x 40	0	122700
P9	15 x 40	0	122700
P10	15 x 70	0	122700

Legenda dos pilares

- Pilar que passa

Legenda das vigas e paredes

- Viga

OBSERVAÇÕES SOBRE LAJES PRÉ-FABRICAS:

1) AS ESPESSURAS DAS LAJES, BEM COMO OS INTEREIXOS AS VIGOTAS, SÃO DE TOTAL RESPONSABILIDADE DO FORNECEDOR DA LAJE, FICANDO AS MEDIDAS DO PROJETO, APENAS ORIENTATIVAS.
2) NÃO DEVEM SER MODIFICADOS OS SENTIDOS DE ARMAÇÃO DAS LAJES;
3) SEGUIR AS ESPECIFICAÇÕES DO FABRICANTE QUANTO AO TRANSPORTE VERTICAL, COLOCAÇÃO DA LAJE, ESCORAMENTO, CURA DO CONCRETO E DESFORMA;
4) CONSULTAR FORNECEDOR QUANTO A NECESSIDADE DE CONTRA-FLECHA NAS LAJES;
5) OBSERVAR PAREDES SOBRE LAJE, CONSULTANDO TAMBEM O PROJETO ARQUITETÔNICO;
6) A LAJE PRÉ-FABRICADA É DE TOTAL RESPONSABILIDADE DO FABRICANTE E/OU FORNECEDOR.

PROJETO ESTRUTURAL REVISÃO 01

RESPONSÁVEL TÉCNICO:

macedo Projetos e Engenharia
www.macedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 05.566.680/0001-07
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea MG-70.782/D
RUA MARGARIDA CORTES DO CANAAN, FUNILÂNDIA/MG
FONE: (31) 3771-2264 - 3773-9936

CONTEÚDO DESTA PRANCHA:
- Forma da FUNDAÇÃO (Nível 122820)
- Forma do FOSSO ELEVADOR (Nível 122700)

PRANCHA: 08/27

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE: JEQUITIBÁ/MG

DATA: JULHO/2022

REV: 00

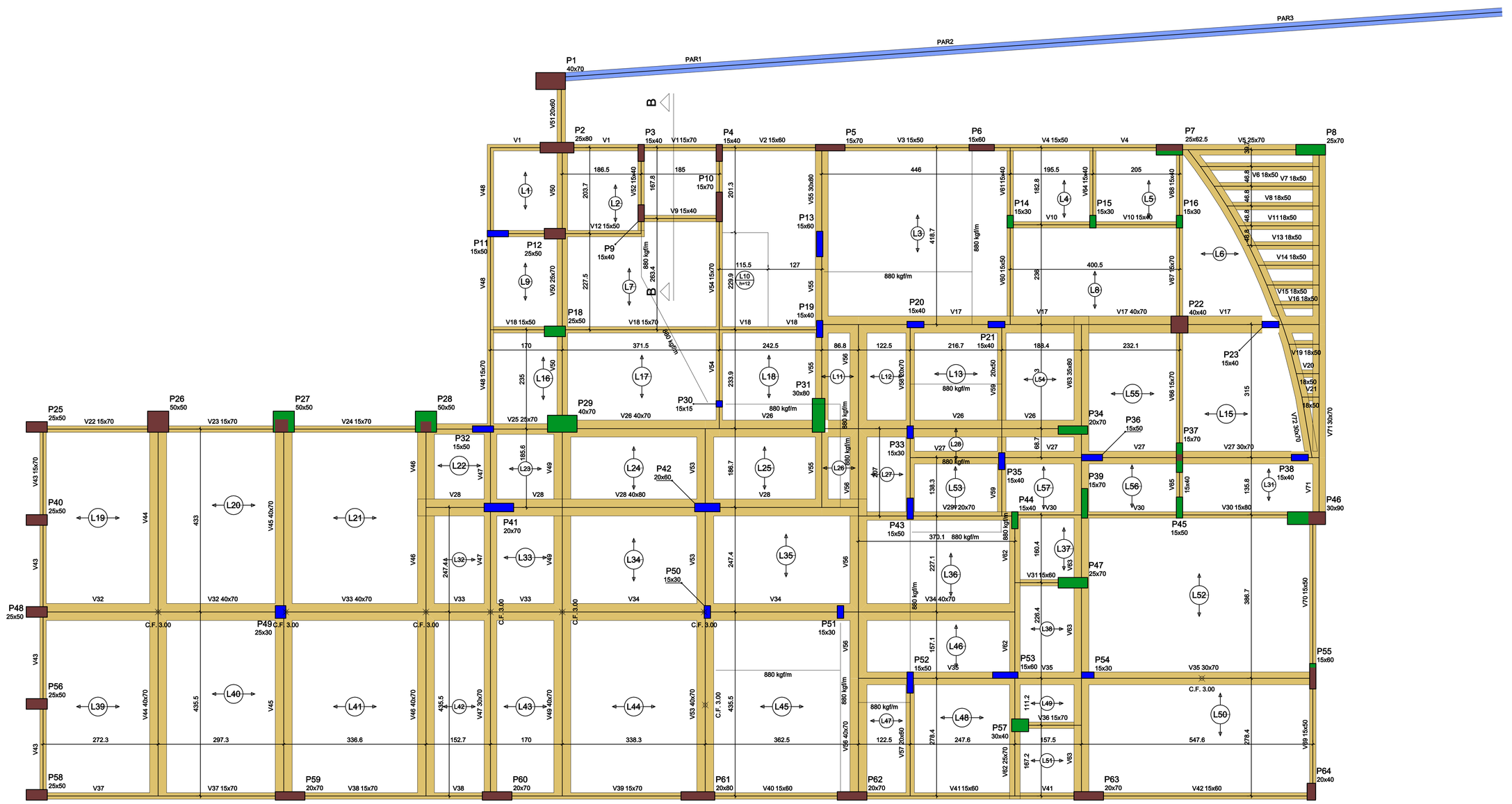
USO: SERVIÇO PROFISSIONAL

ÁREA: 733,19 m²

ESCALA: INDICADA

ART: MG20210618832

PROPRIETÁRIO: CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90



Forma do PAVT 1 INT (Nível 123270)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x70	0	123270
V2	15x60	0	123270
V3	15x50	0	123270
V4	15x50	0	123270
V5	25x70	0	123270
V6	18x50	0	123270
V7	18x50	0	123270
V8	18x50	0	123270
V9	15x40	0	123270
V10	15x40	0	123270
V11	18x50	0	123270
V12	15x50	0	123270
V13	18x50	0	123270
V14	18x50	0	123270
V15	18x50	0	123270
V16	18x50	0	123270
V17	40x70	0	123270
V18	15x50	0	123270
	15x70	0	123270
V19	18x50	0	123270
V20	18x50	0	123270
V21	18x50	0	123270
V22	15x70	0	123270
V23	15x70	0	123270
V24	15x70	0	123270
V25	25x70	0	123270
V26	40x70	0	123270
V27	30x70	0	123270
V28	40x80	0	123270
V29	20x70	0	123270
V30	15x80	0	123270
V31	15x60	0	123270
V32	40x70	0	123270
V33	40x70	0	123270
V34	40x70	0	123270
V35	30x70	0	123270
V36	15x70	0	123270
V37	15x70	0	123270
V38	15x70	0	123270
V39	15x70	0	123270
V40	15x60	0	123270
V41	15x60	0	123270
V42	15x60	0	123270
V43	15x70	0	123270
V44	40x70	0	123270
V45	40x70	0	123270
V46	40x70	0	123270
V47	30x70	0	123270
V48	15x70	0	123270
V49	40x70	0	123270
V50	25x70	0	123270
V51	20x60	0	123270
V52	15x40	0	123270
V53	40x70	0	123270
V54	15x70	0	123270
V55	30x80	0	123270
V56	40x70	0	123270
V57	20x80	0	123270
V58	20x70	0	123270
V59	20x50	0	123270
V60	15x50	0	123270
V61	15x40	0	123270
V62	25x70	0	123270
V63	35x80	0	123270
V64	15x40	0	123270
V65	15x40	0	123270
V66	15x70	0	123270
V67	15x70	0	123270
V68	15x40	0	123270
V69	15x50	0	123270
V70	15x50	0	123270
V71	30x70	0	123270
V72	30x70	0	123270

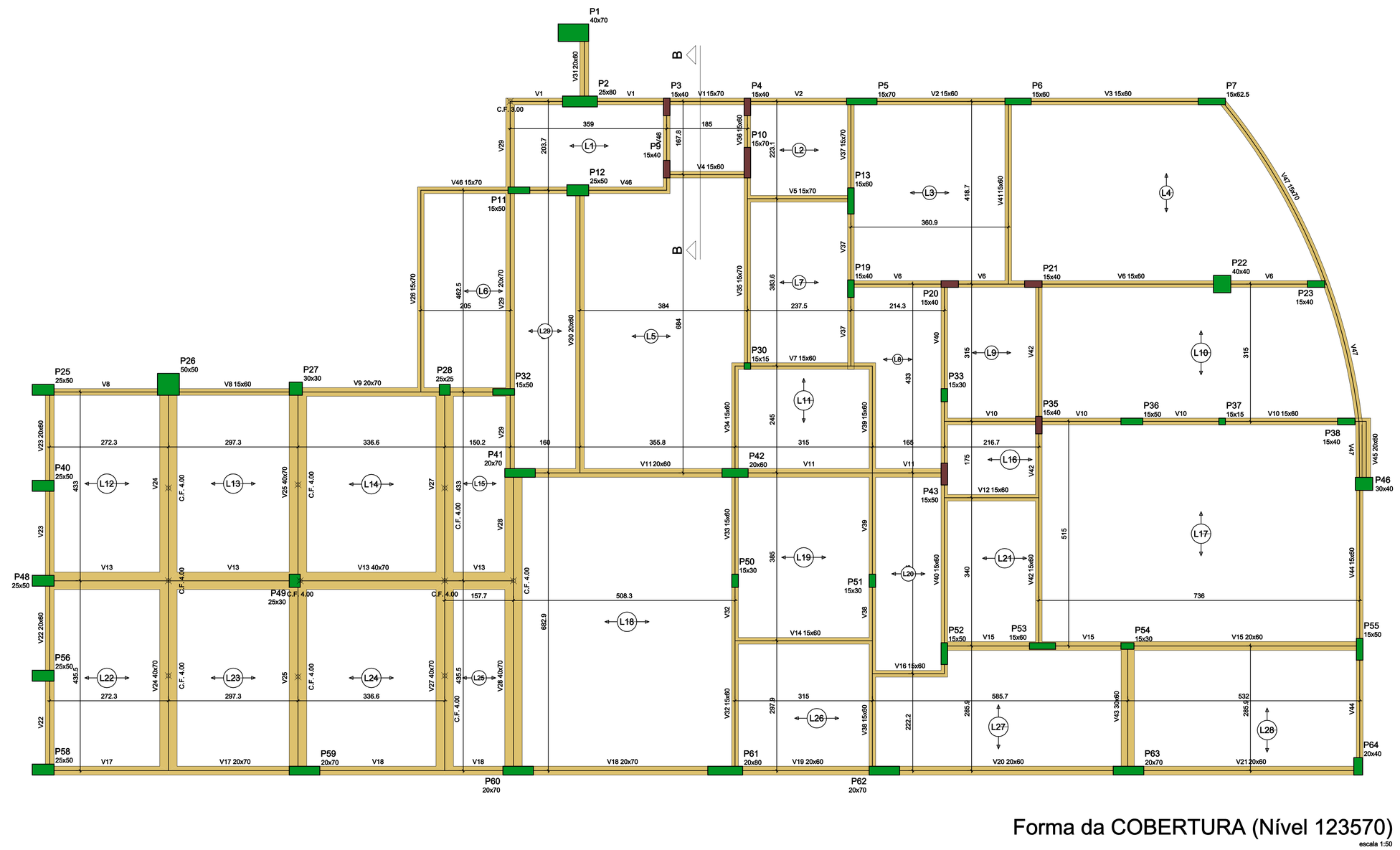
Lajes							
		Dados				Sobrecarga (kgf/m²)	
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Pré-moldada	12	0	123270	147	169	200	-
L2	Pré-moldada	12	0	123270	147	169	200	-
L3	Treliçada 2D	25	0	123270	319	123	300	sim
L4	Treliçada 2D	12	0	123270	168	154	200	-
L5	Treliçada 2D	12	0	123270	168	154	200	-
L6	Treliçada 2D	20	0	123270	226	154	200	-
L7	Pré-moldada	12	0	123270	147	154	200	sim
L8	Treliçada 2D	20	0	123270	226	154	200	-
L9	Pré-moldada	12	0	123270	147	154	200	-
L10	Maciça	12	0	123270	300	154	200	-
L11	Treliçada 2D	14	0	123270	218	305	200	sim
L12	Treliçada 2D	14	0	123270	218	305	200	-
L13	Treliçada 2D	25	0	123270	319	123	300	sim
L15	Treliçada 2D	20	0	123270	226	154	200	-
L16	Pré-moldada	12	0	123270	147	154	200	-
L17	Treliçada 2D	14	0	123270	218	305	200	sim
L18	Treliçada 2D	14	0	123270	218	305	200	sim
L19	Treliçada 2D	14	0	123270	218	305	200	-
L20	Treliçada 2D	14	0	123270	218	305	200	-
L21	Treliçada 2D	14	0	123270	218	305	200	-
L22	Treliçada 2D	14	0	123270	218	305	200	-
L23	Treliçada 2D	14	0	123270	218	305	200	-
L24	Treliçada 2D	14	0	123270	218	305	200	-
L25	Treliçada 2D	14	0	123270	218	305	200	-
L26	Treliçada 2D	14	0	123270	218	305	200	sim
L27	Treliçada 2D	14	0	123270	218	305	200	-
L28	Treliçada 2D	25	0	123270	319	123	300	-
L31	Treliçada 2D	20	0	123270	226	154	200	-
L32	Treliçada 2D	14	0	123270	218	305	200	-
L33	Treliçada 2D	14	0	123270	218	305	200	-
L34	Treliçada 2D	14	0	123270	218	305	200	-
L35	Treliçada 2D	14	0	123270	218	305	200	-
L36	Treliçada 2D	14	0	123270	218	305	200	sim
L37	Treliçada 2D	20	0	123270	236	154	200	-
L38	Treliçada 2D	20	0	123270	236	154	200	-
L39	Treliçada 2D	14	0	123270	218	305	200	-
L40	Treliçada 2D	14	0	123270	218	305	200	-
L41	Treliçada 2D	14	0	123270	218	305	200	-
L42	Treliçada 2D	14	0	123270	218	305	200	-
L43	Treliçada 2D	14	0	123270	218	305	200	-
L44	Treliçada 2D	14	0	123270	218	305	200	-
L45	Treliçada 2D	14	0	123270	218	305	200	sim
L46	Treliçada 2D	14	0	123270	218	305	200	sim
L47	Treliçada 2D	14	0	123270	218	305	200	sim
L48	Treliçada 2D	14	0	123270	218	305	200	-
L49	Treliçada 2D	20	0	123270	236	154	200	-
L50	Treliçada 2D	20	0	123270	236	154	200	-
L51	Treliçada 2D	20	0	123270	236	154	200	-
L52	Treliçada 2D	20	0	123270	236	154	200	-
L53	Treliçada 2D	25	0	123270	319	123	300	-
L54	Treliçada 2D	25	0	123270	319	123	300	-
L55	Treliçada 2D	25	0	123270	319	123	300	-
L56	Treliçada 2D	25	0	123270	319	123	300	-
L57	Treliçada 2D	25	0	123270	319	123	300	-

Características dos materiais	
Elemento	fck (kgf/cm²)
Vigas	300
Pilares	300
Lajes	300
Reservatórios	250
Muros	300

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	40 x 70	0	123270
P2	25 x 80	0	123270
P3	15 x 40	0	123270
P4	15 x 40	0	123270
P5	15 x 70	0	123270
P6	15 x 60	0	123270
P7	15 x 62.5	0	123270
P8	25 x 70	0	123270
P9	15 x 40	0	123270
P10	15 x 70	0	123270
P11	15 x 50	0	123270
P12	25 x 50	0	123270
P13	15 x 60	0	123270
P19	15 x 40	0	123270
P20	15 x 40	0	123270
P21	15 x 40	0	123270
P22	40 x 40	0	123270
P23	15 x 40	0	123270
P25	25 x 50	0	123270
P26	50 x 50	0	123270
P27	30 x 30	0	123270
P28	25 x 25	0	123270
P30	15 x 15	0	123270
P32	15 x 50	0	123270
P33	15 x 30	0	123270
P35	15 x 40	0	123270
P36	15 x 50	0	123270
P37	15 x 15	0	123270
P38	15 x 40	0	123270
P40	25 x 50	0	123270
P41	20 x 70	0	123270
P42	20 x 60	0	123270
P43	15 x 50	0	123270
P46	30 x 40	0	123270
P48	25 x 50	0	123270
P49	25 x 30	0	123270
P50	15 x 30	0	123270
P51	15 x 30	0	123270
P52	15 x 50	0	123270
P53	15 x 60	0	123270
P54	15 x 30	0	123270
P55	15 x 50	0	123270
P56	25 x 50	0	123270
P58	25 x 50	0	123270
P59	20 x 70	0	123270
P60	20 x 70	0	123270
P61	20 x 80	0	123270
P62	20 x 70	0	123270
P63	20 x 70	0	123270
P64	20 x 40	0	123270

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

Legenda das vigas e paredes
Viga
Parede de concreto



Forma da COBERTURA (Nível 123570)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x70	0	123570
V2	15x60	0	123570
V3	15x60	0	123570
V4	15x60	0	123570
V5	15x70	0	123570
V6	15x60	0	123570
V7	15x60	0	123570
V8	15x60	0	123570
V9	20x70	0	123570
V10	15x60	0	123570
V11	20x60	0	123570
V12	15x60	0	123570
V13	40x70	0	123570
V14	15x60	0	123570
V15	20x60	0	123570
V16	15x60	0	123570
V17	20x70	0	123570
V18	20x70	0	123570
V19	20x60	0	123570
V20	20x60	0	123570
V21	20x60	0	123570
V22	20x60	0	123570
V23	20x60	0	123570
V24	40x70	0	123570
V25	40x70	0	123570
V26	15x70	0	123570
V27	40x70	0	123570
V28	40x70	0	123570
V29	20x70	0	123570
V30	20x60	0	123570
V31	20x60	0	123570
V32	15x60	0	123570
V33	15x60	0	123570
V34	15x60	0	123570
V35	15x70	0	123570
V36	15x60	0	123570
V37	15x70	0	123570
V38	15x60	0	123570
V39	15x60	0	123570
V40	15x60	0	123570
V41	15x60	0	123570
V42	15x60	0	123570
V43	20x60	0	123570
V44	15x60	0	123570
V45	20x60	0	123570
V46	15x70	0	123570
V47	15x70	0	123570

Lajes							
		Dados				Sobrecarga (kgf/m²)	
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Treliçada 2D	25	0	123570	319	373	300	-
L2	Treliçada 2D	25	0	123570	319	373	300	-
L3	Treliçada 2D	25	0	123570	319	373	300	-
L4	Treliçada 2D	25	0	123570	319	373	300	-
L5	Treliçada 2D	25	0	123570	319	373	300	-
L6	Treliçada 2D	25	0	123570	319	373	300	-
L7	Treliçada 2D	25	0	123570	319	373	300	-
L8	Treliçada 2D	25	0	123570	319	373	300	-
L9	Treliçada 2D	25	0	123570	319	373	300	-
L10	Treliçada 2D	25	0	123570	319	373	300	-
L11	Treliçada 2D	25	0	123570	319	373	300	-
L12	Treliçada 2D	25	0	123570	319	373	300	-
L13	Treliçada 2D	25	0	123570	319	373	300	-
L14	Treliçada 2D	25	0	123570	319	373	300	-
L15	Treliçada 2D	25	0	123570	319	373	300	-
L16	Treliçada 2D	25	0	123570	319	373	300	-
L17	Treliçada 2D	25	0	123570	319	373	300	-
L18	Treliçada 2D	25	0	123570	319	373	300	-
L19	Treliçada 2D	25	0	123570	319	373	300	-
L20	Treliçada 2D	25	0	123570	319	123	300	-
L21	Treliçada 2D	25	0	123570	319	373	300	-
L22	Treliçada 2D	25	0	123570	319	373	300	-
L23	Treliçada 2D	25	0	123570	319	373	300	-
L24	Treliçada 2D	25	0	123570	319	373	300	-
L25	Treliçada 2D	25	0	123570	319	373	300	-
L26	Treliçada 2D	25	0	123570	319	373	300	-
L27	Treliçada 2D	25	0	123570	319	373	300	-
L28	Treliçada 2D	25	0	123570	319	373	300	-
L29	Treliçada 2D	25	0	123570	319	373	300	-

Características dos materiais	
Elemento	fck (kgf/cm²)
	300

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	40 x 70	0	123570
P2	25 x 80	0	123570
P3	15 x 40	0	123570
P4	15 x 40	0	123570
P5	15 x 70	0	123570
P6	15 x 60	0	123570
P7	15 x 62.5	0	123570
P9	15 x 40	0	123570
P10	15 x 70	0	123570
P11	15 x 50	0	123570
P12	25 x 50	0	123570
P13	15 x 60	0	123570
P19	15 x 40	0	123570
P20	15 x 40	0	123570
P21	15 x 40	0	123570
P22	40 x 40	0	123570
P23	15 x 40	0	123570
P25	25 x 50	0	123570
P26	50 x 50	0	123570
P27	30 x 30	0	123570
P28	25 x 25	0	123570
P30	15 x 15	0	123570
P32	15 x 50	0	123570
P33	15 x 30	0	123570
P35	15 x 40	0	123570
P36	15 x 50	0	123570
P37	15 x 15	0	123570
P38	15 x 40	0	123570
P40	25 x 50	0	123570
P41	20 x 70	0	123570
P42	20 x 60	0	123570
P43	15 x 50	0	123570
P46	30 x 40	0	123570
P48	25 x 50	0	123570
P49	25 x 30	0	123570
P50	15 x 30	0	123570
P51	15 x 30	0	123570
P52	15 x 50	0	123570
P53	15 x 60	0	123570
P54	15 x 30	0	123570
P55	15 x 50	0	123570
P56	25 x 50	0	123570
P58	25 x 50	0	123570
P59	20 x 70	0	123570
P60	20 x 70	0	123570
P61	20 x 80	0	123570
P62	20 x 70	0	123570
P63	20 x 70	0	123570
P64	20 x 40	0	123570

Legenda dos pilares
Pilar que morre
Pilar que passa

Legenda das vigas e paredes
Viga

OBSERVAÇÕES SOBRE LAJES PRÉ-FABRICAS:

1) AS ESPESSURAS DAS LAJES, BEM COMO OS INTEREIXOS AS VIGOTAS, SÃO DE TOTAL RESPONSABILIDADE DO FORNECEDOR DA LAJE, FICANDO AS MEDIDAS DO PROJETO, APENAS ORIENTATIVAS;
2) NÃO DEVEM SER MODIFICADOS OS SENTIDOS DE ARMAÇÃO DAS LAJES;
3) SEGUIR AS ESPECIFICAÇÕES DO FABRICANTE QUANTO AO TRANSPORTE VERTICAL, COLOCAÇÃO DA LAJE, ESCORAMENTO, CURA DO CONCRETO E DESFORMA;
4) CONSULTAR FORNECEDOR QUANTO A NECESSIDADE DE CONTRA-FLECHA NAS LAJES;
5) OBSERVAR PAREDES SOBRE LAJE, CONSULTANDO TAMBEM O PROJETO ARQUITETÔNICO;
6) A LAJE PRÉ-FABRICADA É DE TOTAL RESPONSABILIDADE DO FABRICANTE E/OU FORNECEDOR.

PROJETO ESTRUTURAL REVISÃO 01

RESPONSÁVEL TÉCNICO:
macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 19.566.686/0001-37
RT: ANTÔNIO ALCÍCLISTO DE MACEDO
Eng. Civil - Téc. Segurança do Trabalho
CREA: 0601.0.0.0
RUA MARGARIDA CONTONA, 59/TR, CAIXA06, PUNILÂNDIA/MG
FONE: (31) 3771-0554 - 3773-9936

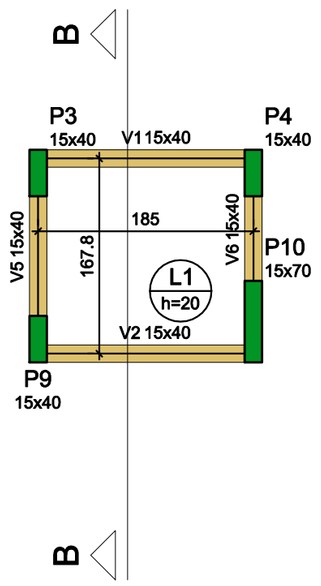
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- Forma do PAVT 1 INT (Nível 123270)
- Forma da COBERTURA (Nível 123570)

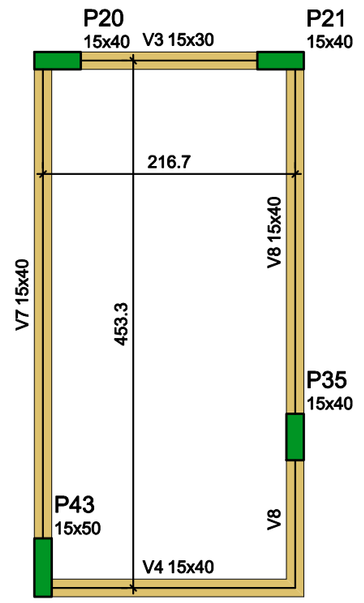
PRANCHA: 09/27

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE: JEQUITIBÁ/MG
DATA: JULHO/2022
REV: 00
USO: SERVIÇO PROFISSIONAL
ÁREA: 731,91m²
ESCALA: INDICADA
ART: MG20210618832

PROPRIETÁRIO: CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90





Forma da TORRE ELEVADOR E CX DAGUA (Nível 123820)

escala 1:50

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	15x40	0	123820
V2	15x40	0	123820
V3	15x30	0	123820
V4	15x40	0	123820
V5	15x40	0	123820
V6	15x40	0	123820
V7	15x40	0	123820
V8	15x40	0	123820

Lajes

Dados						Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada
L1	Maciça	20	0	123820	500	50	600	-

Características dos materiais

fck (kgf/cm²)
300

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P3	15 x 40	0	123820
P4	15 x 40	0	123820
P9	15 x 40	0	123820
P10	15 x 70	0	123820
P20	15 x 40	0	123820
P21	15 x 40	0	123820
P35	15 x 40	0	123820
P43	15 x 50	0	123820

Legenda dos pilares
Pilar que morre

Legenda das vigas e paredes
Viga

OBSERVAÇÕES SOBRE LAJES PRÉ-FABRICAS:

1) AS ESPESSURAS DAS LAJES, BEM COMO OS INTEREIXOS AS VIGOTAS, SÃO DE TOTAL RESPONDO FORNECEDOR DA LAJE, FICANDO AS MEDIDAS DO PROJETO, APENAS ORIENTATIVAS.
2) NÃO DEVEM SER MODIFICADOS OS SENTIDOS DE ARMAÇÃO DAS LAJES;
3) SEGUIR AS ESPECIFICAÇÕES DO FABRICANTE QUANTO AO TRANSPORTE VERTICAL, COLOCAÇÃO DA LAJE, ESCORAMENTO, CURA DO CONCRETO E DESFORMA;
4) CONSULTAR FORNECEDOR QUANTO A NECESSIDADE DE CONTRA-FLECHA NAS LAJES;
5) OBSERVAR PAREDES SOBRE LAJE, CONSULTANDO TAMBÉM O PROJETO ARQUITETÔNICO;
6) A LAJE PRÉ-FABRICADA É DE TOTAL RESPONSABILIDADE DO FABRICANTE E/OU FORNECEDOR.

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA

* Forma da TORRE ELEVADOR E CX DAGUA (Nível 123820)

PRANCHA: 10/27

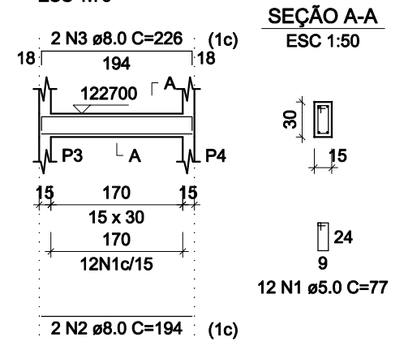
ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO: CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

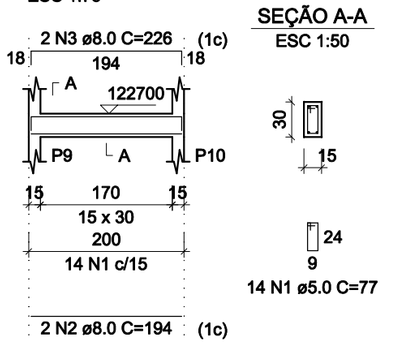
V1
ESC 1:75



SEÇÃO A-A
ESC 1:50

12 N1 ø5.0 C=77

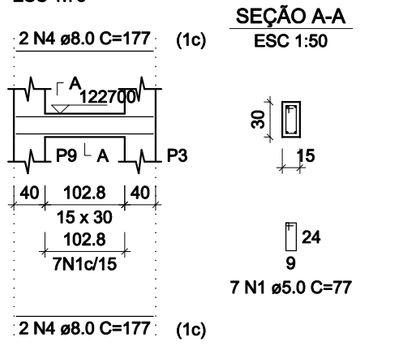
V2
ESC 1:75



SEÇÃO A-A
ESC 1:50

14 N1 ø5.0 C=77

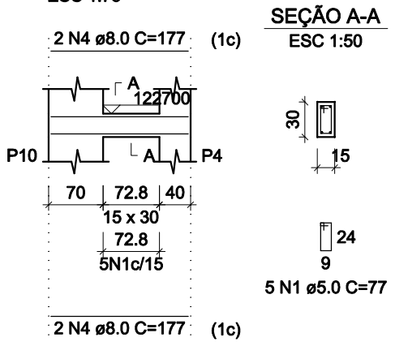
V3
ESC 1:75



SEÇÃO A-A
ESC 1:50

7 N1 ø5.0 C=77

V4
ESC 1:75



SEÇÃO A-A
ESC 1:50

5 N1 ø5.0 C=77

RELAÇÃO DO AÇO

V1
V4

V2

V3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	38	77	2926
CA50	2	8.0	4	194	776
	3	8.0	4	226	904
	4	8.0	8	177	1416

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	8.0	31	3	12 m	12.2
CA60	5.0	29.3	3	12 m	4.5

PESO TOTAL (kg)	
CA50	12.2
CA60	4.5

Volume de concreto (C-30) = 0.34 m³
Área de forma = 5.74 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

macedo
Projetos e Engenharia
www.amacedoengenharia.combr

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas do fosso do elevador

PRANCHA:
11/27

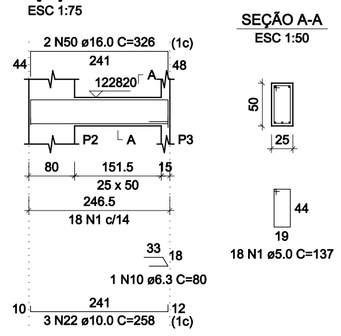
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

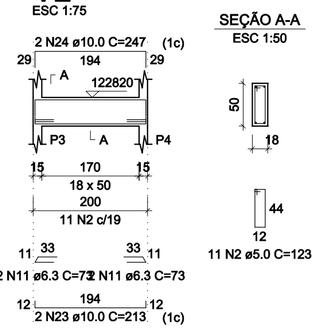
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

V1
ESC 1:75



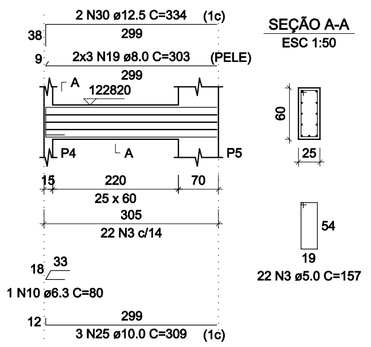
SEÇÃO A-A
ESC 1:50

V2
ESC 1:75



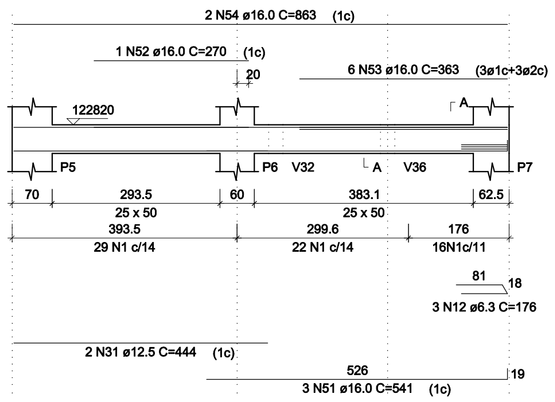
SEÇÃO A-A
ESC 1:50

V3
ESC 1:75

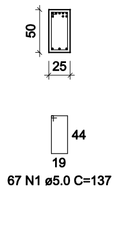


SEÇÃO A-A
ESC 1:50

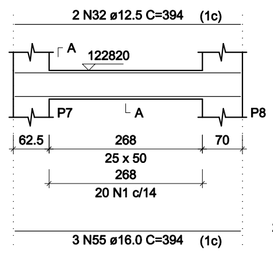
V4
ESC 1:75



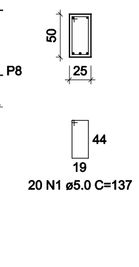
SEÇÃO A-A
ESC 1:50



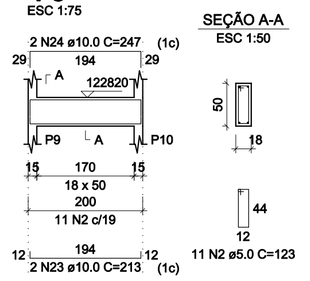
V5
ESC 1:75



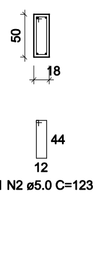
SEÇÃO A-A
ESC 1:50



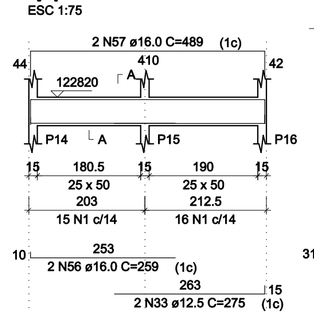
V6
ESC 1:75



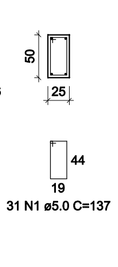
SEÇÃO A-A
ESC 1:50



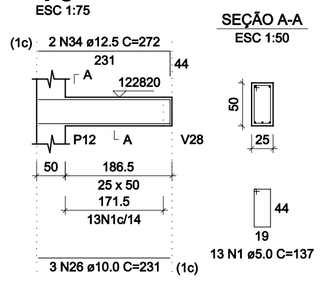
V7
ESC 1:75



SEÇÃO A-A
ESC 1:50

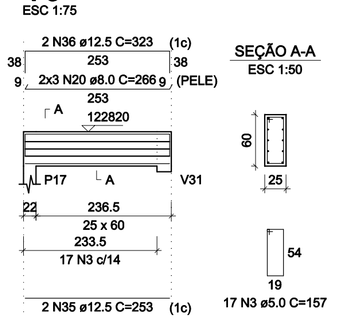


V8
ESC 1:75



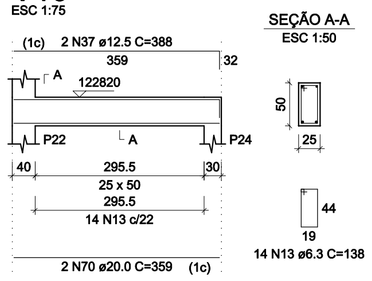
SEÇÃO A-A
ESC 1:50

V9
ESC 1:75



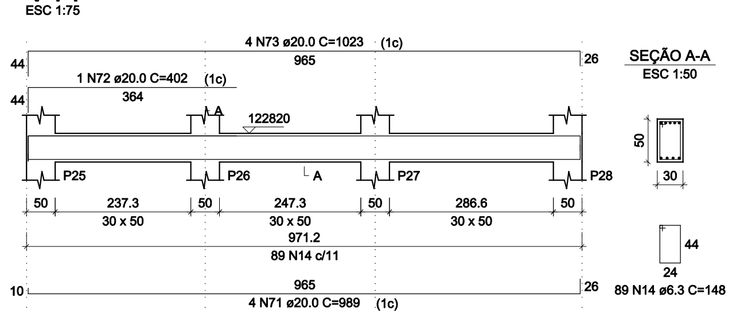
SEÇÃO A-A
ESC 1:50

V10
ESC 1:75



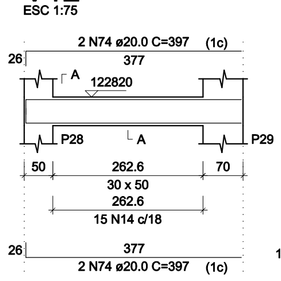
SEÇÃO A-A
ESC 1:50

V11
ESC 1:75

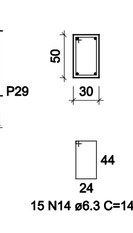


SEÇÃO A-A
ESC 1:50

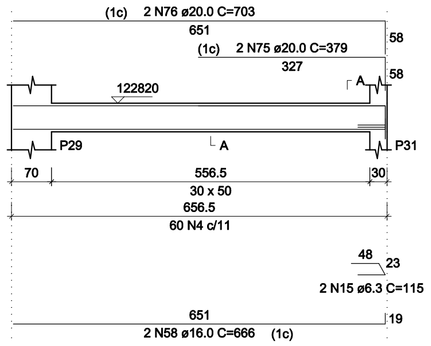
V12
ESC 1:75



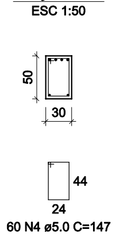
SEÇÃO A-A
ESC 1:50



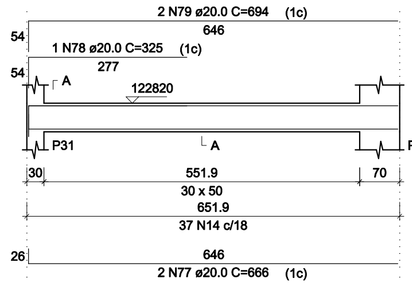
V13
ESC 1:75



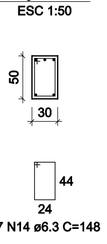
SEÇÃO A-A
ESC 1:50



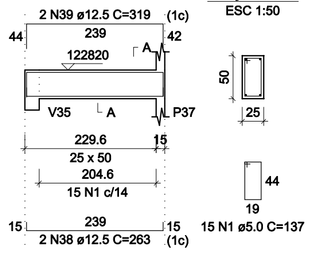
V14
ESC 1:75



SEÇÃO A-A
ESC 1:50

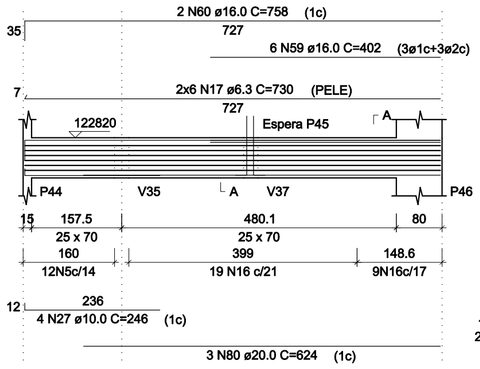


V15
ESC 1:75

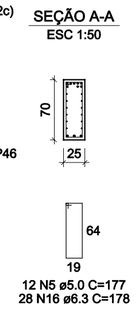


SEÇÃO A-A
ESC 1:50

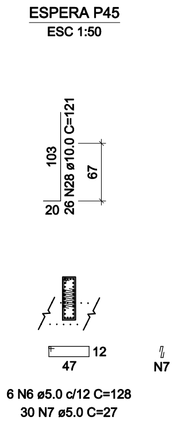
V16
ESC 1:75



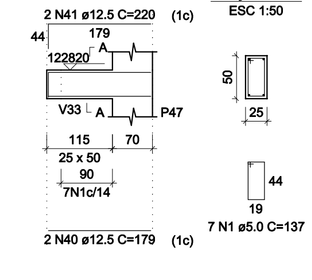
SEÇÃO A-A
ESC 1:50



ESPERA P45
ESC 1:50

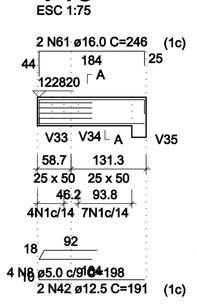


V17
ESC 1:75

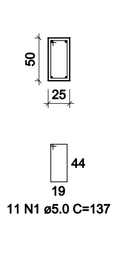


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ESC 1:50

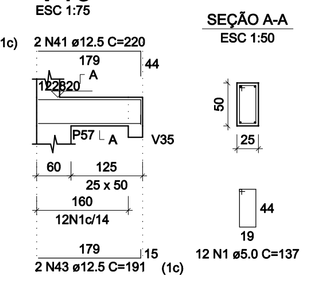
V18
ESC 1:75



SEÇÃO A-A
ESC 1:50

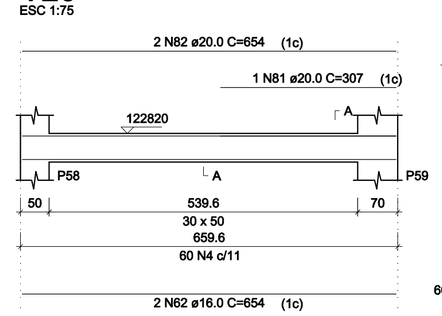


V19
ESC 1:75

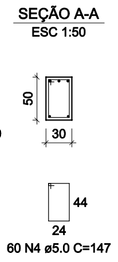


SEÇÃO A-A
ESC 1:50

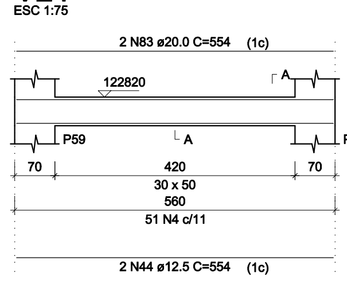
V20
ESC 1:75



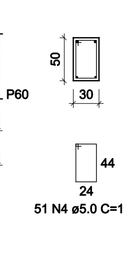
SEÇÃO A-A
ESC 1:50



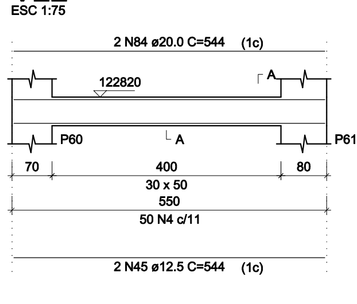
V21
ESC 1:75



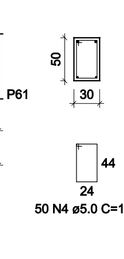
SEÇÃO A-A
ESC 1:50



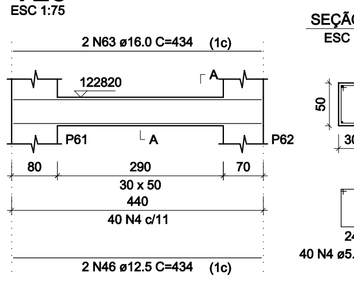
V22
ESC 1:75



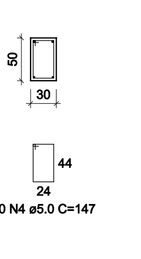
SEÇÃO A-A
ESC 1:50



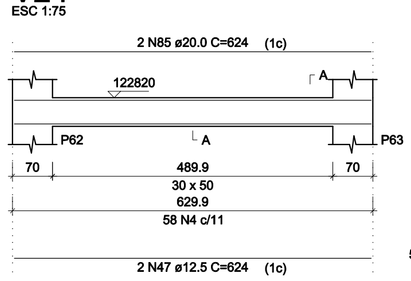
V23
ESC 1:75



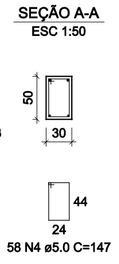
SEÇÃO A-A
ESC 1:50



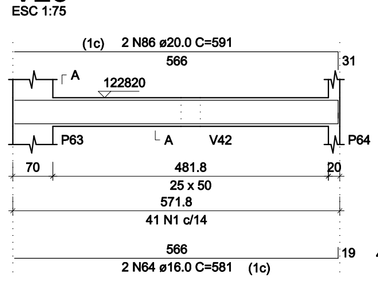
V24
ESC 1:75



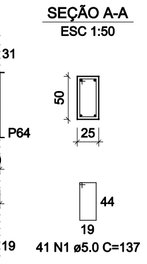
SEÇÃO A-A
ESC 1:50



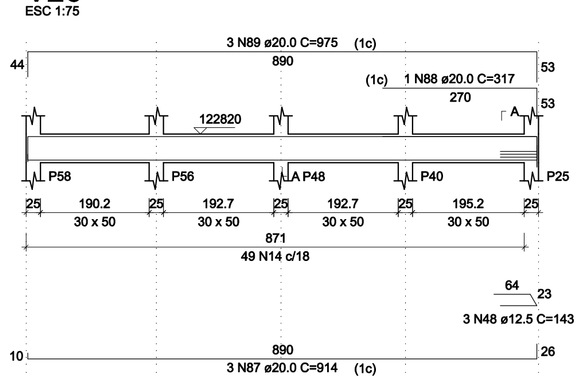
V25
ESC 1:75



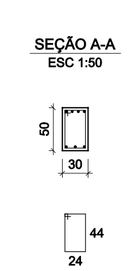
SEÇÃO A-A
ESC 1:50



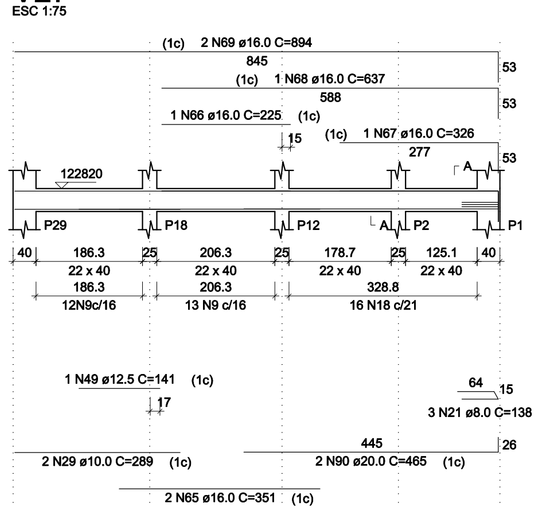
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ESC 1:75



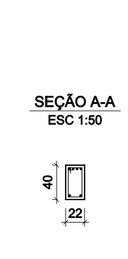
SEÇÃO A-A
ESC 1:50



V27
ESC 1:75



SEÇÃO A-A
ESC 1:50



RELAÇÃO DO AÇO

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	235	137	32195
	2	5.0	22	123	2706
	3	5.0	39	157	6123
	4	5.0	319	147	46893
	5	5.0	12	177	2124
	6	5.0	6	128	768
	7	5.0	30	27	810
	8	5.0	4	198	792
	9	5.0	25	111	2775
CA50	10	6.3	2	80	160
	11	6.3	4	73	292
	12	6.3	3	176	528
	13	6.3	14	138	1932
	14	6.3	190	148	28120
	15	6.3	2	115	230
	16	6.3	28	178	4984
	17	6.3	12	730	8760
	18	6.3	16	112	1792
	19	8.0	6	303	1818
	20	8.0	6	266	1596
	21	8.0	3	138	414
	22	10.0	3	258	774
	23	10.0	4	213	852
	24	10.0	4	247	988
	25	10.0	3	309	927
	26	10.0	3	231	693
	27	10.0	4	246	984
	28	10.0	26	121	3146
	29	10.0	2	289	578
	30	12.5	2	334	668
	31	12.5	2	444	888
	32	12.5	2	394	788
	33	12.5	2	275	550
	34	12.5	2	272	544
	35	12.5	2	253	506
	36	12.5	2	323	646
	37	12.5	2	388	776
	38	12.5	2	263	526
	39	12.5	2	319	638
	40	12.5	2	179	358
	41	12.5	4	220	880
	42	12.5	2	191	382
	43	12.5	2	191	382
	44	12.5	2	554	1108
	45	12.5	2	544	1088
	46	12.5	2	434	868
	47	12.5	2	624	1248
	48	12.5	3	143	429
	49	12.5	1	141	141
	50	16.0	2	326	652
	51	16.0	3	541	1623
	52	16.0	1	270	270
	53	16.0	6	363	2178
	54	16.0	2	863	1726
	55	16.0	3	394	1182
	56	16.0	2	259	518
	57	16.0	2	489	978
	58	16.0	2	666	1332
	59	16.0	6	402	2412
	60	16.0	2	758	1516
	61	16.0	2	246	492
	62	16.0	2	654	1308
	63	16.0	2	434	868
	64	16.0	2	581	1162
	65	16.0	2	351	702
	66	16.0	1	225	225
	67	16.0	1	326	326
	68	16.0	1	637	637
	69	16.0	2	894	1788
	70	20.0	2	359	718
	71	20.0	4	989	3956
	72	20.0	1	402	402
	73	20.0	4	1023	4092
	74	20.0	4	397	1588
	75	20.0	2	379	758
	76	20.0	2	703	1406
	77	20.0	2	666	1332
	78	20.0	1	325	325
	79	20.0	2	694	1388
	80	20.0	3	624	1872
	81	20.0	1	307	307
	82	20.0	2	654	1308
	83	20.0	2	554	1108
	84	20.0	2	544	1088
	85	20.0	2	624	1248
	86	20.0	2	591	1182
	87	20.0	3	914	2742
	88	20.0	1	317	317
	89	20.0	3	975	2925
	90	20.0	2	465	930

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	468	39	12 m	114.5
	8.0	38.3	4	12 m	15.1
	10.0	89.4	8	12 m	55.1
	12.5	134.1	12	12 m	129.2
	16.0	219	19	12 m	345.6
	20.0	309.9	26	12 m	764.3
CA60	5.0	951.9	80	12 m	146.7

PESO TOTAL (kg)	
CA50	1423.9
CA60	146.7

Volume de concreto (C-30) = 17.72 m³
Área de forma = 165.70 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
A.macedo Projetos & Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA:
• Vigas da Fundação 01-02

PRANCHA: 12/27

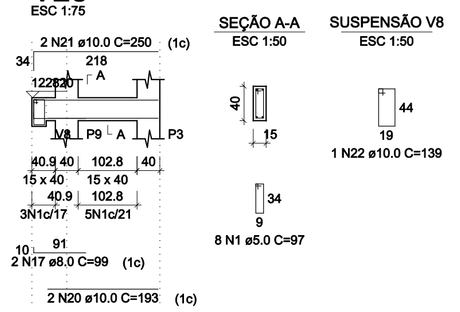
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

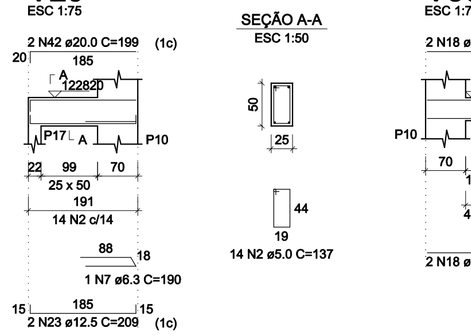
V28
ESC 1:75



SEÇÃO A-A
ESC 1:50

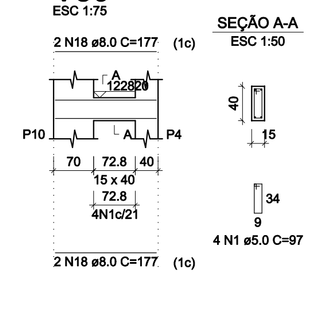
SUSPENSÃO V8
ESC 1:50

V29
ESC 1:75



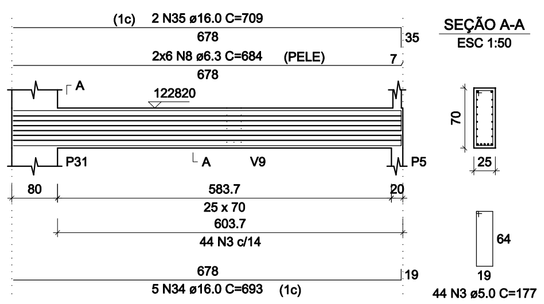
SEÇÃO A-A
ESC 1:50

V30
ESC 1:75



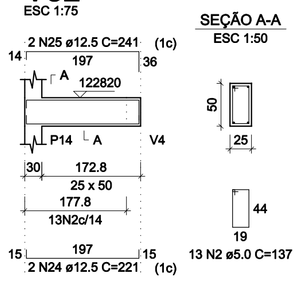
SEÇÃO A-A
ESC 1:50

V31
ESC 1:75

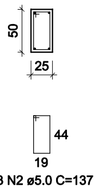


SEÇÃO A-A
ESC 1:50

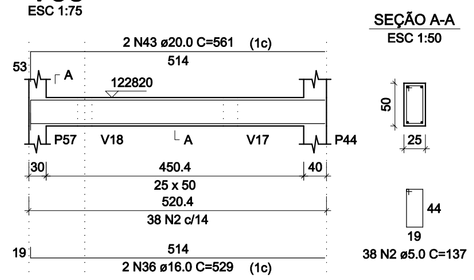
V32
ESC 1:75



SEÇÃO A-A
ESC 1:50

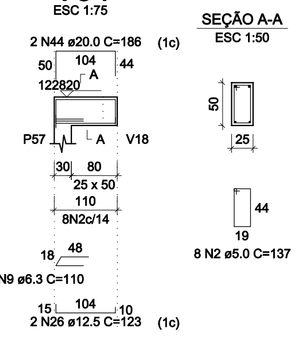


V33
ESC 1:75



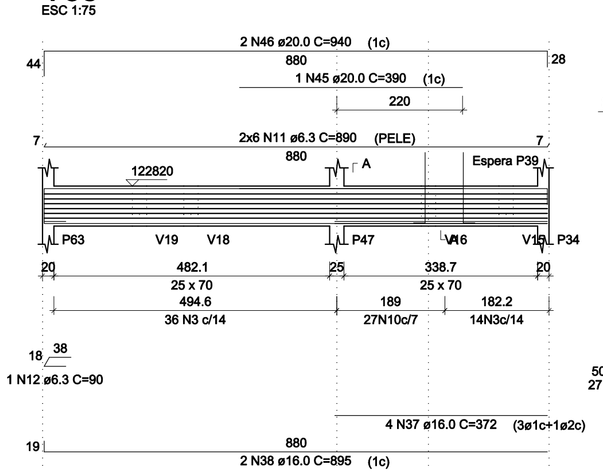
SEÇÃO A-A
ESC 1:50

V34
ESC 1:75

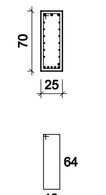


SEÇÃO A-A
ESC 1:50

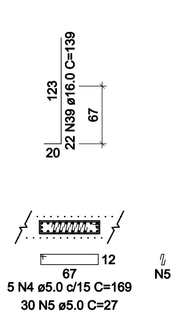
V35
ESC 1:75



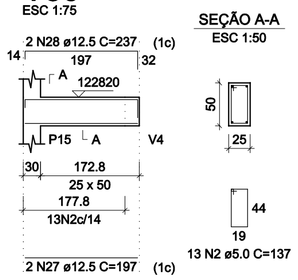
SEÇÃO A-A
ESC 1:50



ESPERA P39
ESC 1:50

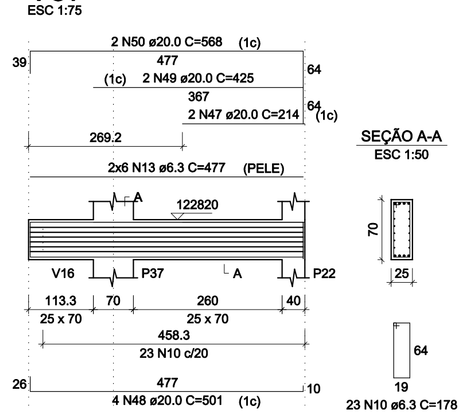


V36
ESC 1:75



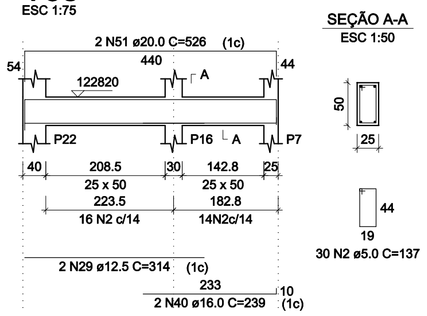
SEÇÃO A-A
ESC 1:50

V37
ESC 1:75



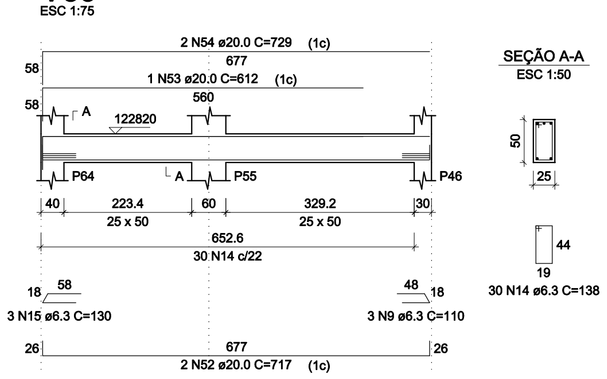
SEÇÃO A-A
ESC 1:50

V38
ESC 1:75



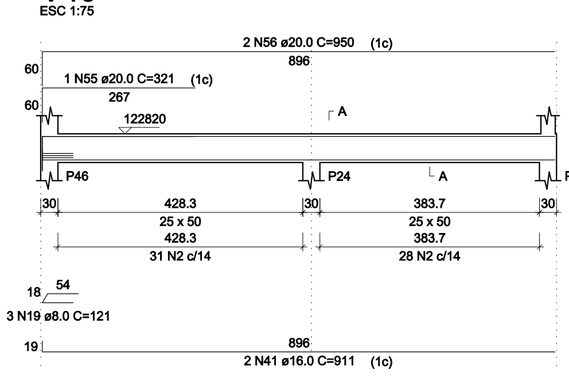
SEÇÃO A-A
ESC 1:50

V39
ESC 1:75

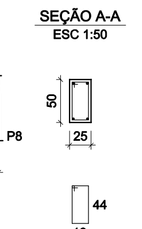


SEÇÃO A-A
ESC 1:50

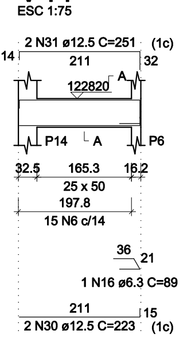
V40
ESC 1:75



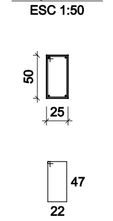
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ESC 1:50



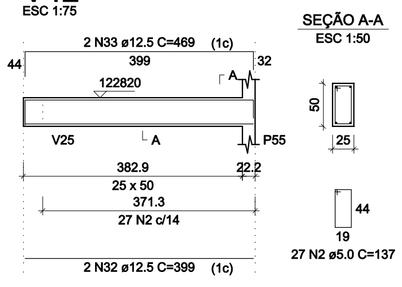
V41
ESC 1:75



SEÇÃO A-A
ESC 1:50



V42
ESC 1:75



SEÇÃO A-A
ESC 1:50

RELAÇÃO DO AÇO

V28	V29	V30	
V31	V32	V33	
V34	V35	V36	
V37	V38	V39	
V40	V41	V42	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	97	1164
	2	5.0	202	137	27674
	3	5.0	94	177	16638
	4	5.0	5	169	845
	5	5.0	30	27	810
	6	5.0	15	149	2235
CA50	7	6.3	1	190	190
	8	6.3	12	684	8208
	9	6.3	5	110	550
	10	6.3	50	178	8900
	11	6.3	12	890	10680
	12	6.3	1	90	90
	13	6.3	12	477	5724
	14	6.3	30	138	4140
	15	6.3	3	130	390
	16	6.3	1	89	89
	17	8.0	2	99	198
	18	8.0	4	177	708
	19	8.0	3	121	363
	20	10.0	2	193	386
	21	10.0	2	250	500
	22	10.0	1	139	139
	23	12.5	2	209	418
	24	12.5	2	221	442
	25	12.5	2	241	482
	26	12.5	2	123	246
	27	12.5	2	197	394
	28	12.5	2	237	474
	29	12.5	2	314	628
	30	12.5	2	223	446
	31	12.5	2	251	502
	32	12.5	2	399	798
	33	12.5	2	469	938
	34	16.0	5	693	3465
	35	16.0	2	709	1418
	36	16.0	2	529	1058
	37	16.0	4	372	1488
	38	16.0	2	895	1790
	39	16.0	22	139	3058
	40	16.0	2	239	478
	41	16.0	2	911	1822
	42	20.0	2	199	398
	43	20.0	2	561	1122
	44	20.0	2	186	372
	45	20.0	1	390	390
	46	20.0	2	940	1880
	47	20.0	2	214	428
	48	20.0	4	501	2004
	49	20.0	2	425	850
	50	20.0	2	568	1136
	51	20.0	2	526	1052
	52	20.0	2	717	1434
	53	20.0	1	612	612
	54	20.0	2	729	1458
	55	20.0	1	321	321
	56	20.0	2	950	1900

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	389.6	33	12 m	95.3
	8.0	12.7	2	12 m	5
	10.0	10.3	1	12 m	6.3
	12.5	57.7	5	12 m	55.6
	16.0	145.8	13	12 m	230.1
	20.0	153.6	13	12 m	378.7
CA60	5.0	493.7	42	12 m	76.1

PESO TOTAL (kg)	
CA50	771
CA60	76.1

Volume de concreto (C-30) = 8.68 m³
Área de forma = 86.19 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº539, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA:
• Vigas da Fundação 02-02

PRANCHA: 13/27

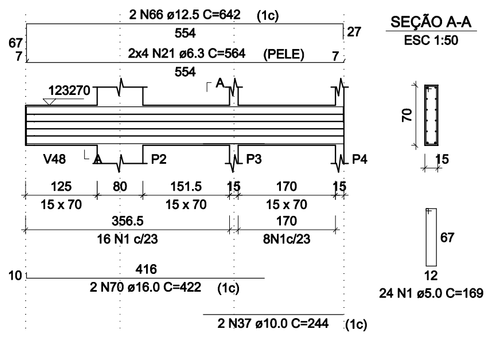
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

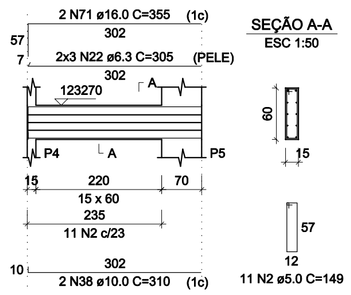
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

V1
ESC 1:75



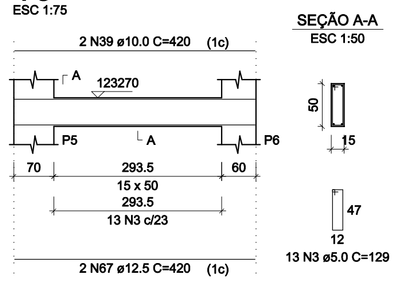
SEÇÃO A-A
ESC 1:50

V2
ESC 1:75



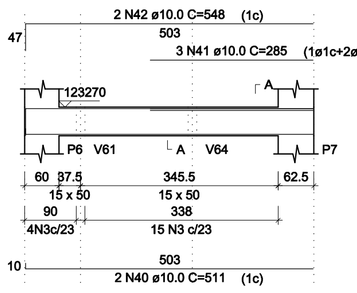
SEÇÃO A-A
ESC 1:50

V3
ESC 1:75

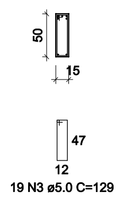


SEÇÃO A-A
ESC 1:50

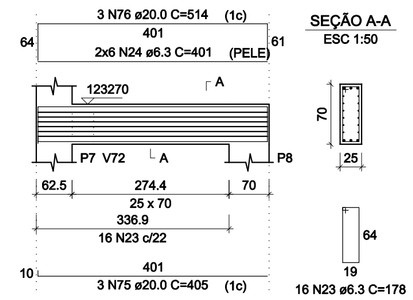
V4
ESC 1:75



SEÇÃO A-A
ESC 1:50

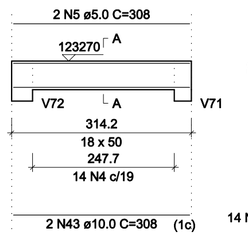


V5
ESC 1:75

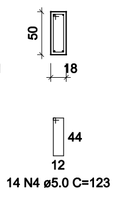


SEÇÃO A-A
ESC 1:50

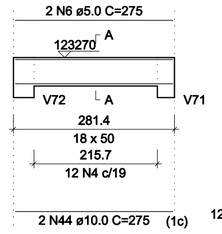
V6
ESC 1:75



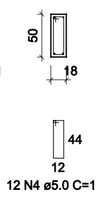
SEÇÃO A-A
ESC 1:50



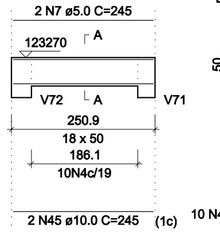
V7
ESC 1:75



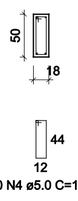
SEÇÃO A-A
ESC 1:50



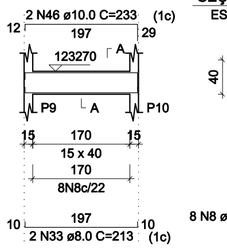
V8
ESC 1:75



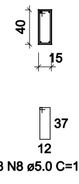
SEÇÃO A-A
ESC 1:50



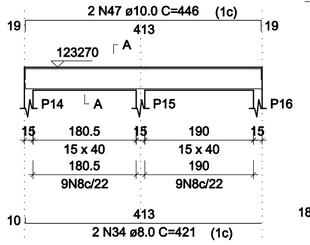
V9
ESC 1:75



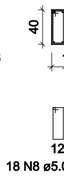
SEÇÃO A-A
ESC 1:50



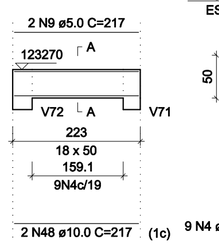
V10
ESC 1:75



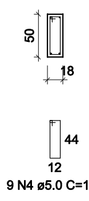
SEÇÃO A-A
ESC 1:50



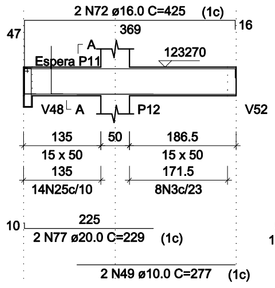
V11
ESC 1:75



SEÇÃO A-A
ESC 1:50



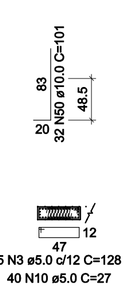
V12
ESC 1:75



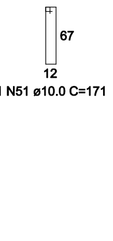
SEÇÃO A-A
ESC 1:50



ESPERA P11
ESC 1:50



SUSPENSÃO V48
ESC 1:50



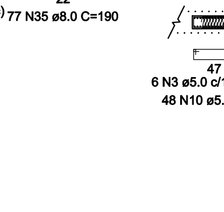
V13
ESC 1:75

SEÇÃO A-A
ESC 1:50

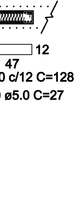
V14
ESC 1:75

SEÇÃO A-A
ESC 1:50

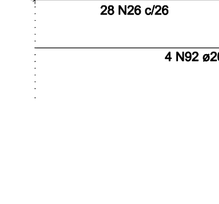
V15
ESC 1:75



SEÇÃO A-A
ESC 1:50

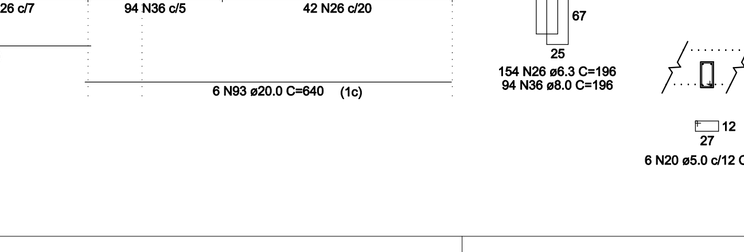


V16
ESC 1:75



SEÇÃO A-A
ESC 1:50

V17
ESC 1:75



SEÇÃO A-A
ESC 1:50

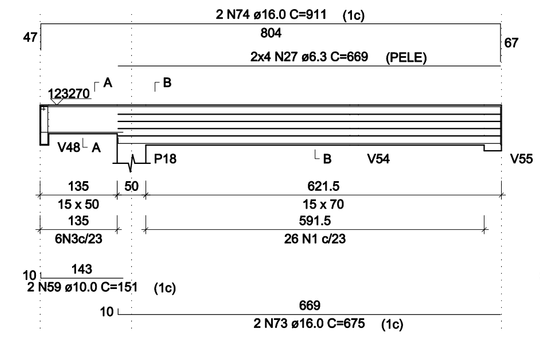
ESPERA P20
ESC 1:50

ESPERA P21
ESC 1:50

ESPERA P23
ESC 1:50



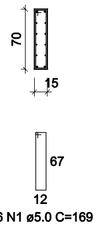
V18
ESC 1:75



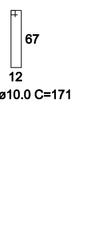
SEÇÃO A-A
ESC 1:50



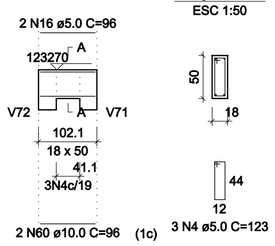
SEÇÃO B-B
ESC 1:50



SUSPENSÃO V48
ESC 1:50

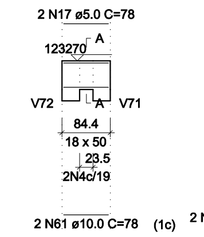


V19
ESC 1:75

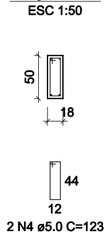


SEÇÃO A-A
ESC 1:50

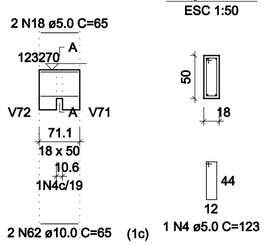
V20
ESC 1:75



SEÇÃO A-A
ESC 1:50

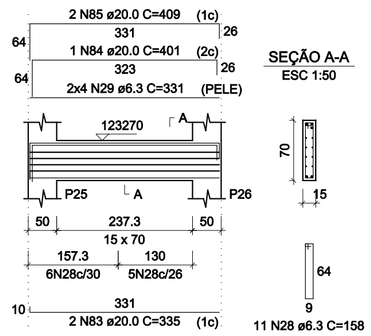


V21
ESC 1:75



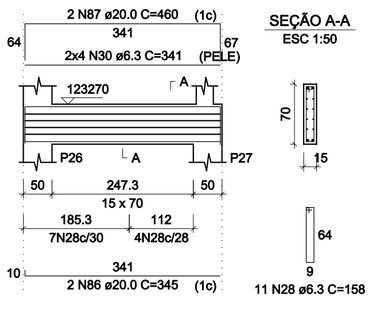
SEÇÃO A-A
ESC 1:50

V22
ESC 1:75



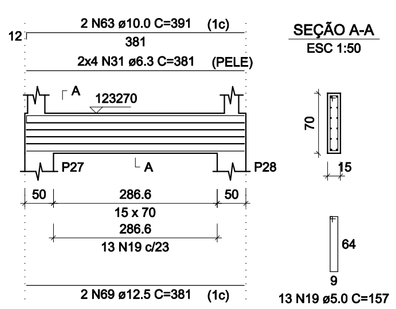
SEÇÃO A-A
ESC 1:50

V23
ESC 1:75



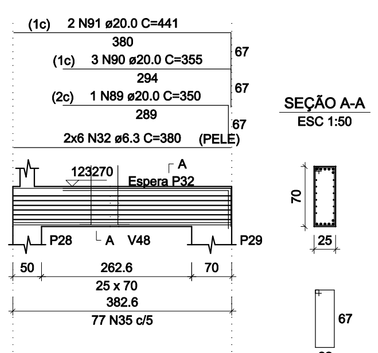
SEÇÃO A-A
ESC 1:50

V24
ESC 1:75



SEÇÃO A-A
ESC 1:50

V25
ESC 1:75

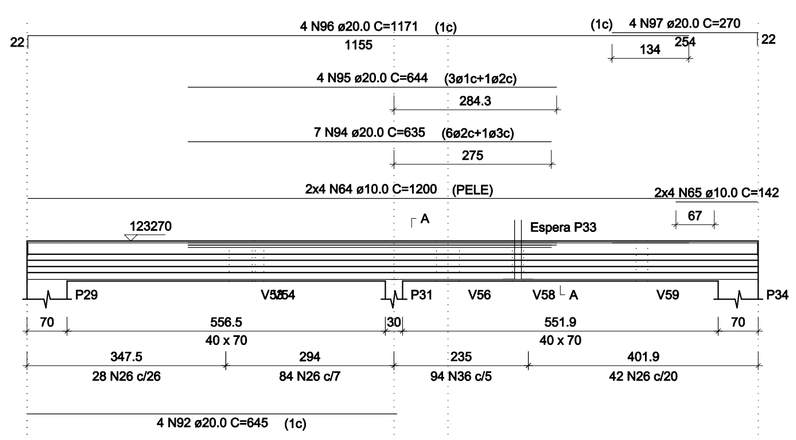


SEÇÃO A-A
ESC 1:50

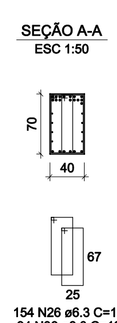
ESPERA P32
ESC 1:50



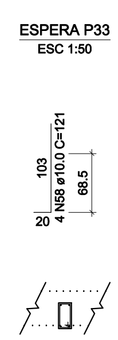
V26
ESC 1:75



SEÇÃO A-A
ESC 1:50



ESPERA P33
ESC 1:50



RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15
V16 V17 V18
V19 V20 V21
V22 V23 V24
V25 V26

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	50	169	8450
	2	5.0	11	149	1639
	3	5.0	57	129	7353
	4	5.0	74	123	9102
	5	5.0	2	308	616
	6	5.0	2	275	550
	7	5.0	2	245	490
	8	5.0	44	109	4796
	9	5.0	2	217	434
	10	5.0	118	27	3186
	11	5.0	2	192	384
	12	5.0	2	170	340
	13	5.0	2	149	298
	14	5.0	2	131	262
	15	5.0	36	195	7020
	16	5.0	2	96	192
	17	5.0	2	78	156
	18	5.0	2	65	130
	19	5.0	13	157	2041
	20	5.0	6	89	534
CA50	21	6.3	8	564	4512
	22	6.3	6	305	1830
	23	6.3	16	178	2848
	24	6.3	12	401	4812
	25	6.3	14	130	1820
	26	6.3	212	196	41552
	27	6.3	8	669	5352
	28	6.3	22	158	3476
	29	6.3	8	331	2648
	30	6.3	8	341	2728
	31	6.3	8	381	3048
	32	6.3	12	380	4560
	33	8.0	2	213	426
	34	8.0	2	421	842
	35	8.0	77	190	14630
	36	8.0	94	196	18424
	37	10.0	2	244	488
	38	10.0	2	310	620
	39	10.0	2	420	840
	40	10.0	2	511	1022
	41	10.0	3	285	855
	42	10.0	2	548	1096
	43	10.0	2	308	616
	44	10.0	2	275	550
	45	10.0	2	245	490
	46	10.0	2	233	466
	47	10.0	2	446	892
	48	10.0	2	217	434
	49	10.0	2	277	554
	50	10.0	32	101	3232
	51	10.0	2	171	342
	52	10.0	2	192	384
	53	10.0	2	170	340
	54	10.0	2	149	298
	55	10.0	2	131	262
	56	10.0	8	1195	9560
	57	10.0	8	101	808
	58	10.0	54	121	6534
	59	10.0	2	151	302
	60	10.0	2	96	192
	61	10.0	2	78	156
	62	10.0	2	65	130
	63	10.0	2	391	782
	64	10.0	8	1200	9600
	65	10.0	8	142	1136
	66	12.5	2	642	1284
	67	12.5	2	420	840
	68	12.5	4	344	1376
	69	12.5	2	381	762
	70	16.0	2	422	844
	71	16.0	2	355	710
	72	16.0	2	425	850
	73	16.0	2	675	1350
	74	16.0	2	911	1822
	75	20.0	3	405	1215
	76	20.0	3	514	1542
	77	20.0	2	229	458
	78	20.0	5	860	4300
	79	20.0	3	899	2697
	80	20.0	3	908	2724
	81	20.0	4	1153	4612
	82	20.0	4	315	1260
	83	20.0	2	335	670
	84	20.0	1	401	401
	85	20.0	2	409	818
	86	20.0	2	345	690
	87	20.0	2	460	920
	88	20.0	6	380	2280
	89	20.0	1	350	350
	90	20.0	3	355	1065
	91	20.0	2	441	882
	92	20.0	4	645	2580
	93	20.0	6	640	3840
	94	20.0	7	635	4445
	95	20.0	4	644	2576
	96	20.0	4	1171	4684
	97	20.0	4	270	1080

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	791.9	66	12 m	193.8
	8.0	343.2	29	12 m	135.4
	10.0	429.8	36	12 m	265
	12.5	42.6	4	12 m	41.1
	16.0	55.8	5	12 m	88
	20.0	460.9	39	12 m	1136.6
CA60	5.0	479.6	40	12 m	73.9
PESO TOTAL (kg)					
CA50	1859.9				
CA60	73.9				

Volume de concreto (C-30) = 14.28 m³
Área de forma = 143.42 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas do Pavimento 1 01-04

PRANCHA: 14/27

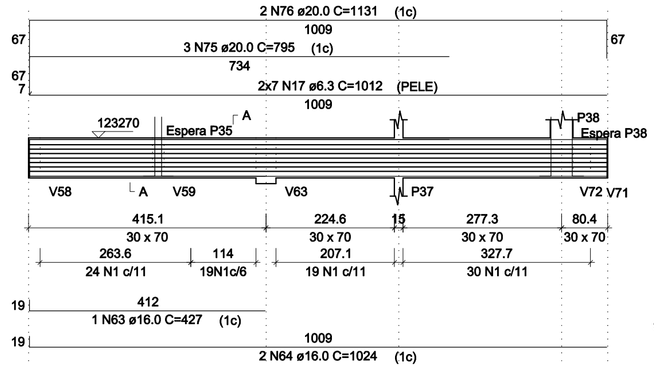
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

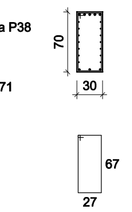
USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m²	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

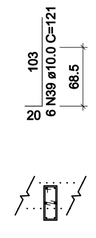
V27
ESC 1:75



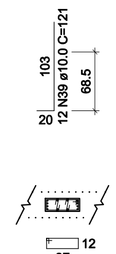
SEÇÃO A-A
ESC 1:50



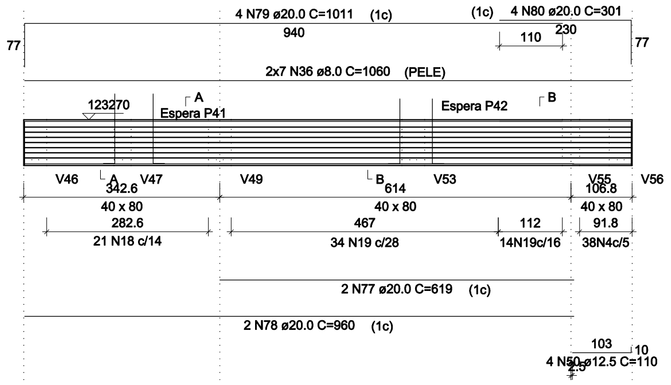
ESPERA P35
ESC 1:50



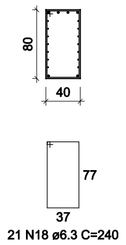
ESPERA P38
ESC 1:50



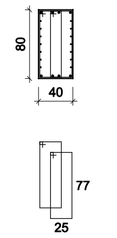
V28
ESC 1:75



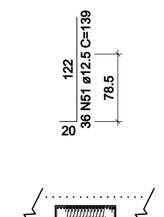
SEÇÃO A-A
ESC 1:50



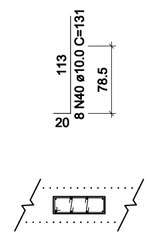
SEÇÃO B-B
ESC 1:50



ESPERA P41
ESC 1:50



ESPERA P42
ESC 1:50



RELAÇÃO DO AÇO

V27 V28 V29
V30 V31 V32
V33 V34 V35
V36 V37 V38
V39 V40 V41
V42

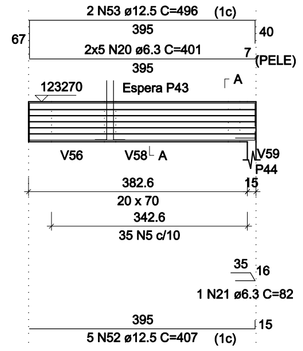
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	198	199	39402
	2	5.0	12	109	1308
	3	5.0	36	27	972
	4	5.0	38	215	8170
	5	5.0	41	178	7298
	6	5.0	72	32	2304
	7	5.0	7	159	1113
	8	5.0	14	32	448
	9	5.0	12	129	1548
	10	5.0	28	189	5292
	11	5.0	44	149	6556
	12	5.0	65	219	14235
	13	5.0	88	195	17160
	14	5.0	6	89	534
	15	5.0	15	169	2535
	16	5.0	21	137	2877
CA50	17	6.3	14	1012	14168
	18	6.3	21	240	5040
	19	6.3	48	216	10368
	20	6.3	10	401	4010
	21	6.3	1	82	82
	22	6.3	8	733	5864
	23	6.3	2	207	414
	24	6.3	6	182	1092
	25	6.3	76	220	16720
	26	6.3	14	1106	15484
	27	6.3	8	180	1440
	28	6.3	102	170	17340
	29	6.3	8	657	5256
	30	6.3	8	557	4456
	31	6.3	1	187	187
	32	6.3	8	547	4376
	33	6.3	6	437	2622
	34	6.3	6	627	3762
	35	6.3	6	572	3432
	36	8.0	14	1060	14840
	37	8.0	13	150	1950
	38	8.0	3	196	588
	39	10.0	40	121	4840
	40	10.0	8	131	1048
	41	10.0	2	199	398
	42	10.0	8	627	5016
	43	10.0	8	696	5568
	44	10.0	8	1111	8888
	45	10.0	2	180	360
	46	10.0	2	275	550
	47	10.0	2	437	874
	48	10.0	2	627	1254
	49	10.0	2	576	1152
	50	12.5	4	110	440
	51	12.5	36	139	5004
	52	12.5	5	407	2035
	53	12.5	2	496	992
	54	12.5	2	176	352
	55	12.5	3	426	1278
	56	12.5	1	430	430
	57	12.5	2	769	1538
	58	12.5	1	182	182
	59	12.5	2	198	396
	60	12.5	4	723	2892
	61	12.5	2	627	1254
	62	12.5	2	592	1184
	63	16.0	1	427	427
	64	16.0	2	1024	2048
	65	16.0	2	582	1164
	66	16.0	2	195	390
	67	16.0	2	773	1546
	68	16.0	2	1100	2200
	69	16.0	2	877	1754
	70	16.0	2	1043	2086
	71	16.0	2	276	552
	72	16.0	2	392	784
	73	16.0	2	572	1144
	74	16.0	2	437	874
	75	20.0	3	795	2385
	76	20.0	2	1131	2262
	77	20.0	2	619	1238
	78	20.0	2	960	1920
	79	20.0	4	1011	4044
	80	20.0	4	301	1204
	81	20.0	1	263	263
	82	20.0	2	275	550
	83	20.0	2	288	576
	84	20.0	3	647	1941
	85	20.0	5	708	3540
	86	20.0	2	533	1066
	87	20.0	1	594	594
	88	20.0	2	818	1636
	89	20.0	4	850	3400
	90	20.0	2	1188	2376
	91	20.0	2	657	1314
	92	20.0	1	349	349
	93	20.0	2	677	1354
	94	20.0	1	304	304
	95	20.0	2	557	1114
	96	20.0	4	547	2188

RESUMO DO AÇO

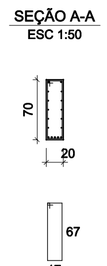
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	1161.1	97	12 m	284.1
	8.0	173.8	15	12 m	68.6
	10.0	299.5	25	12 m	184.6
	12.5	179.8	15	12 m	173.2
	16.0	149.7	13	12 m	236.3
	20.0	356.2	30	12 m	878.4
CA60	5.0	1117.8	94	12 m	172.3
PESO TOTAL (kg)					
CA50	1825.2				
CA60	172.3				

Volume de concreto (C-30) = 19.78 m³
Área de forma = 175.11 m²

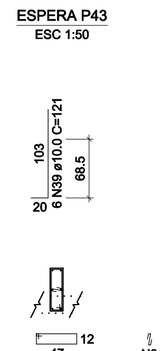
V29
ESC 1:75



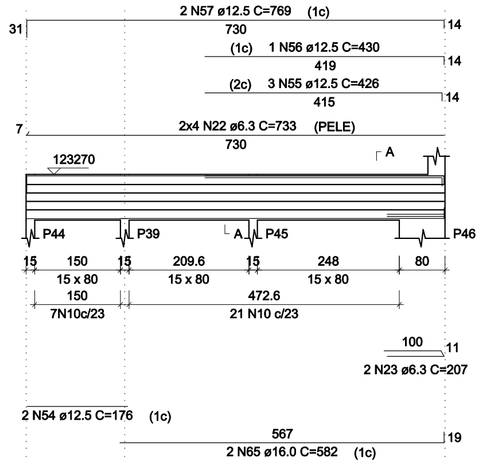
SEÇÃO A-A
ESC 1:50



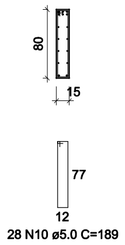
ESPERA P43
ESC 1:50



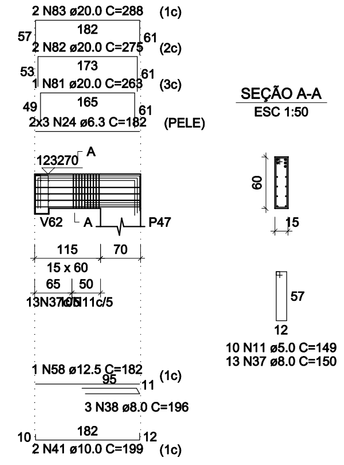
V30
ESC 1:75



SEÇÃO A-A
ESC 1:50

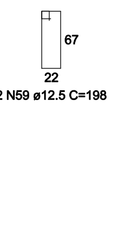


V31
ESC 1:75

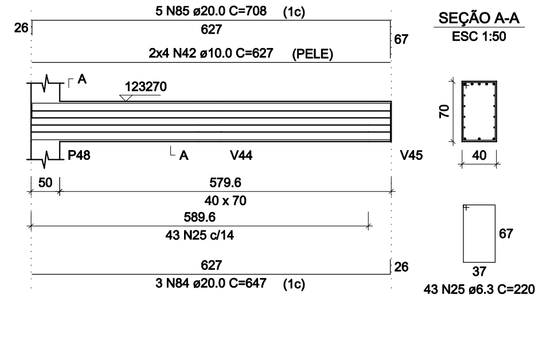


SEÇÃO A-A
ESC 1:50

SUSPENSÃO V62
ESC 1:50

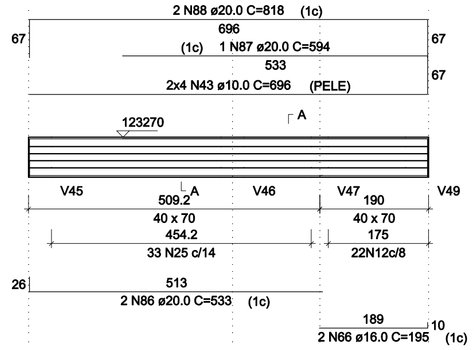


V32
ESC 1:75

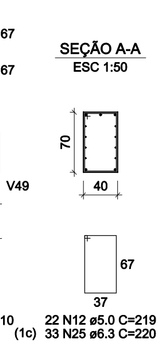


SEÇÃO A-A
ESC 1:50

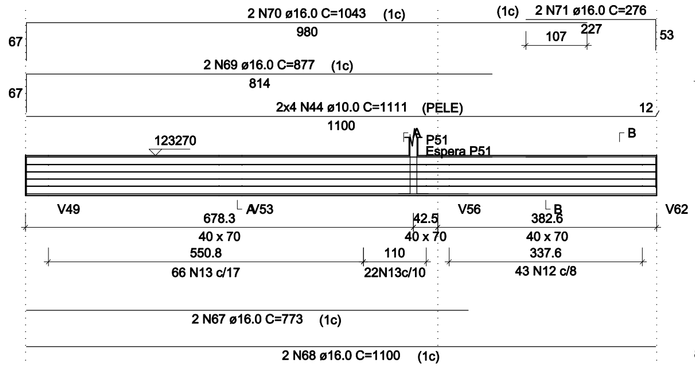
V33
ESC 1:75



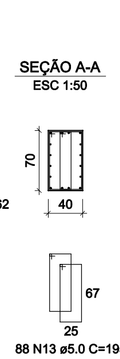
SEÇÃO A-A
ESC 1:50



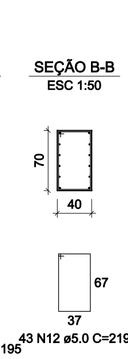
V34
ESC 1:75



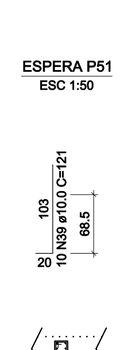
SEÇÃO A-A
ESC 1:50



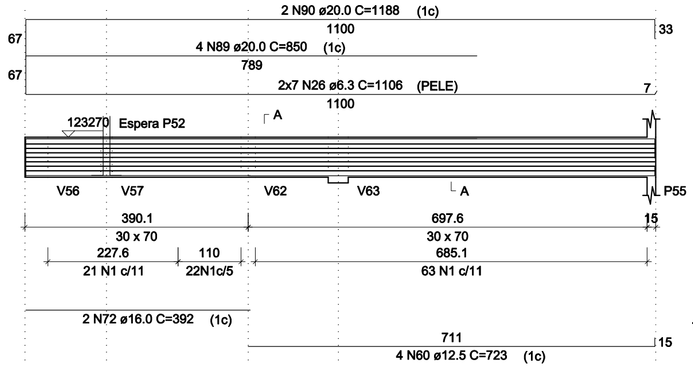
SEÇÃO B-B
ESC 1:50



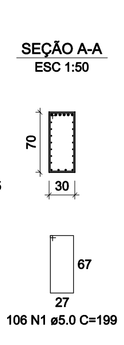
ESPERA P51
ESC 1:50



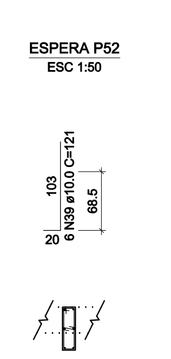
V35
ESC 1:75



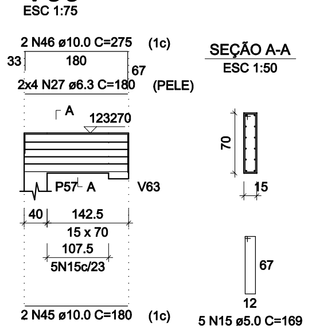
SEÇÃO A-A
ESC 1:50



ESPERA P52
ESC 1:50

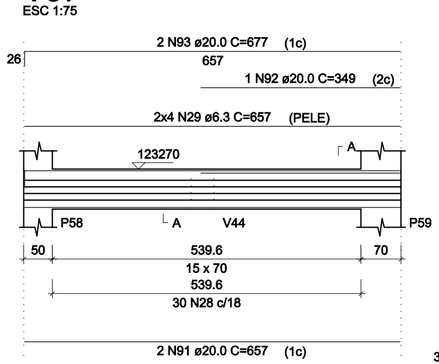


V36
ESC 1:75

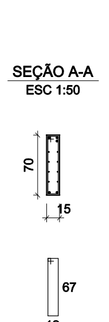


SEÇÃO A-A
ESC 1:50

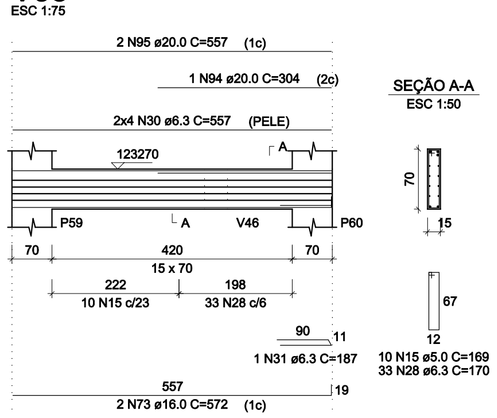
V37
ESC 1:75



SEÇÃO A-A
ESC 1:50

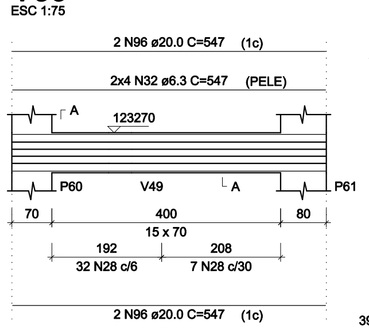


V38
ESC 1:75

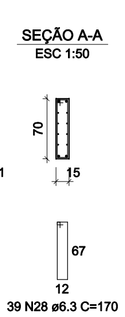


SEÇÃO A-A
ESC 1:50

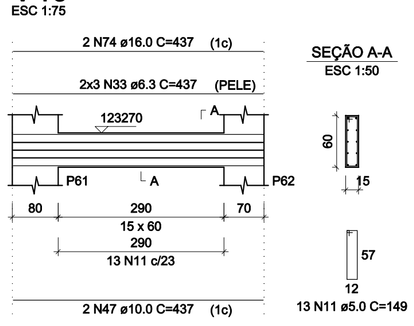
V39
ESC 1:75



SEÇÃO A-A
ESC 1:50

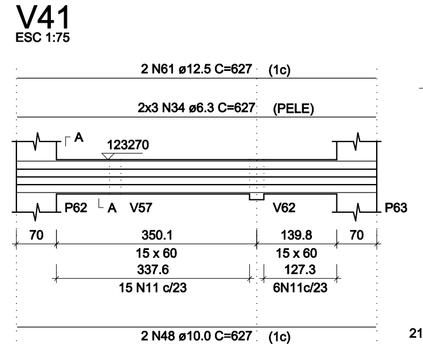


V40
ESC 1:75

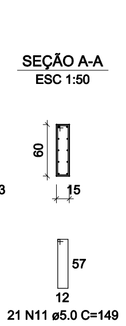


SEÇÃO A-A
ESC 1:50

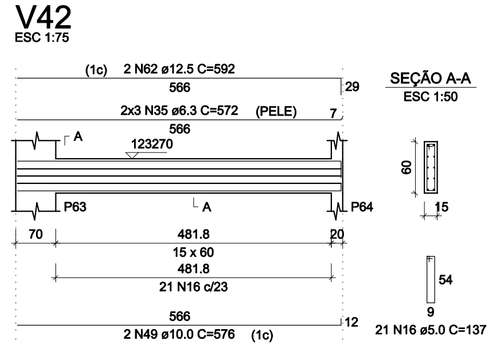
V41
ESC 1:75



SEÇÃO A-A
ESC 1:50



V42
ESC 1:75



SEÇÃO A-A
ESC 1:50

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas do Pavimento 1 02-04

PRANCHA: 15/27

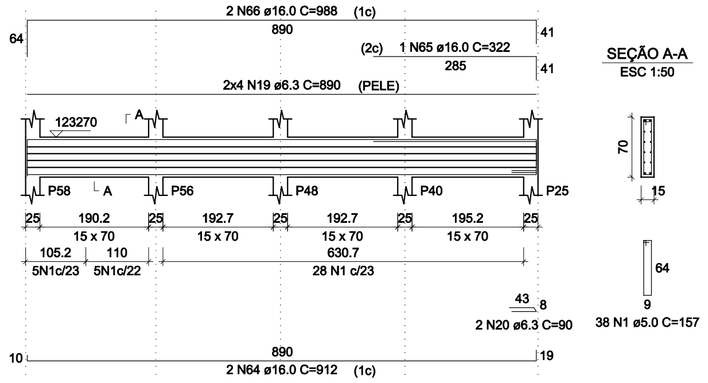
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

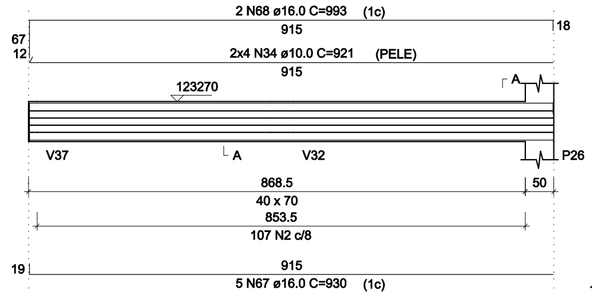
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

V43
ESC 1:75

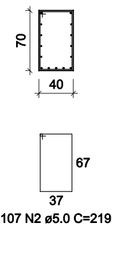


SEÇÃO A-A
ESC 1:50

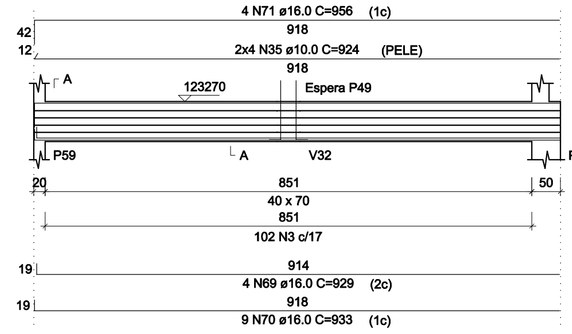
V44
ESC 1:75



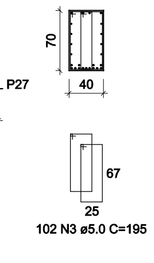
SEÇÃO A-A
ESC 1:50



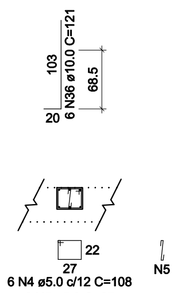
V45
ESC 1:75



SEÇÃO A-A
ESC 1:50



ESPERA P49
ESC 1:50

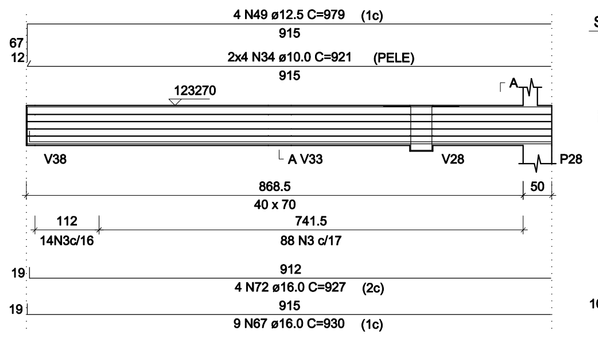


RELAÇÃO DO AÇO

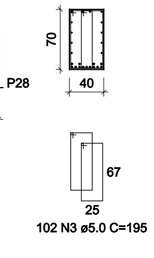
V43	V44	V45
V46	V47	V48
V49	V50	V51
V52	V53	V54
V55	V56	V57
V58	V59	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	67	157	10519
	2	5.0	143	219	31317
	3	5.0	474	195	92430
	4	5.0	6	108	648
	5	5.0	6	37	222
	6	5.0	121	199	24079
	7	5.0	46	189	8694
	8	5.0	25	159	3975
	9	5.0	15	109	1635
	10	5.0	6	89	534
	11	5.0	4	169	676
	12	5.0	6	59	354
	13	5.0	36	219	7884
	14	5.0	21	27	567
	15	5.0	7	149	1043
	16	5.0	2	298	596
	17	5.0	21	179	3759
	18	5.0	39	139	5421
CA50	19	6.3	8	890	7120
	20	6.3	2	90	180
	21	6.3	14	891	12474
	22	6.3	8	686	5488
	23	6.3	304	196	59584
	24	6.3	12	683	8196
	25	6.3	8	187	1496
	26	6.3	37	170	6290
	27	6.3	8	690	5520
	28	6.3	8	301	2408
	29	6.3	33	180	5940
	30	6.3	10	483	4830
	31	8.0	2	224	448
	32	8.0	71	220	15620
	33	8.0	10	894	8940
	34	10.0	16	921	14736
	35	10.0	8	924	7392
	36	10.0	26	121	3146
	37	10.0	8	278	2224
	38	10.0	2	680	1360
	39	10.0	2	772	1544
	40	10.0	8	911	7288
	41	10.0	2	251	502
	42	10.0	1	131	131
	43	10.0	8	903	7224
	44	10.0	2	213	426
	45	10.0	22	131	2882
	46	10.0	8	1159	9272
	47	10.0	2	307	614
	48	10.0	2	569	1138
	49	12.5	4	979	3916
	50	12.5	4	1002	4008
	51	12.5	3	168	504
	52	12.5	3	898	2694
	53	12.5	9	902	8118
	54	12.5	9	905	8145
	55	12.5	9	909	8181
	56	12.5	16	228	3648
	57	12.5	4	624	2496
	58	12.5	7	885	6195
	59	12.5	9	889	8001
	60	12.5	9	892	8028
	61	12.5	2	298	596
	62	12.5	2	494	988
	63	12.5	2	257	514
	64	16.0	2	912	1824
	65	16.0	1	322	322
	66	16.0	2	988	1976
	67	16.0	14	930	13020
	68	16.0	2	993	1986
	69	16.0	4	929	3716
	70	16.0	9	933	8397
	71	16.0	4	956	3824
	72	16.0	4	927	3708
	73	16.0	6	911	5466
	74	16.0	7	919	6433
	75	16.0	8	929	7432
	76	16.0	9	936	8424
	77	16.0	2	683	1366
	78	16.0	2	746	1492
	79	16.0	3	209	627
	80	16.0	2	219	438
	81	16.0	2	267	534
	82	16.0	5	703	3515
	83	16.0	4	1082	4328
	84	16.0	4	290	1160
	85	20.0	3	999	2997
	86	20.0	1	282	282
	87	20.0	4	290	1160
	88	20.0	4	1012	4048
	89	20.0	2	630	1260
	90	20.0	1	522	522
	91	20.0	2	751	1502
	92	20.0	5	550	3300
	93	20.0	5	646	3230
	94	20.0	6	654	3924
	95	20.0	4	663	2652
	96	20.0	2	979	1958
	97	20.0	3	602	1806

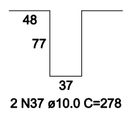
V46
ESC 1:75



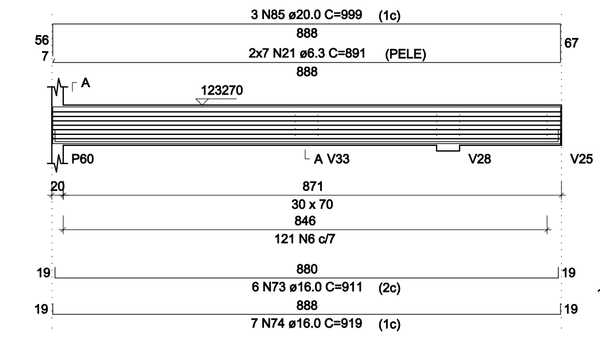
SEÇÃO A-A
ESC 1:50



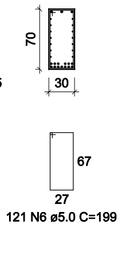
SUSPENSÃO V28
ESC 1:50



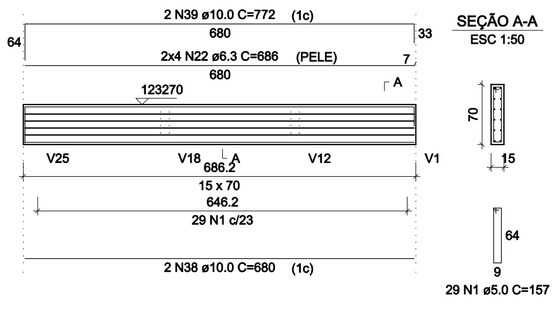
V47
ESC 1:75



SEÇÃO A-A
ESC 1:50

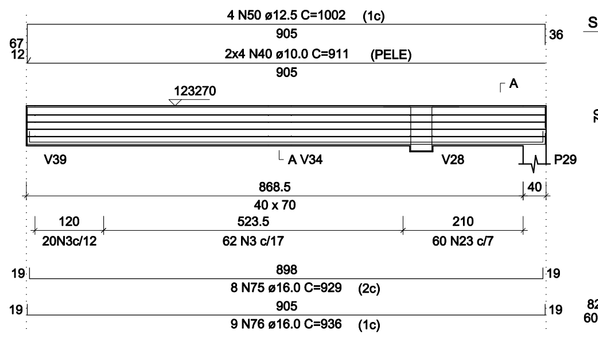


V48
ESC 1:75

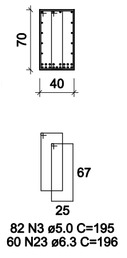


SEÇÃO A-A
ESC 1:50

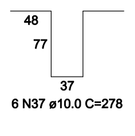
V49
ESC 1:75



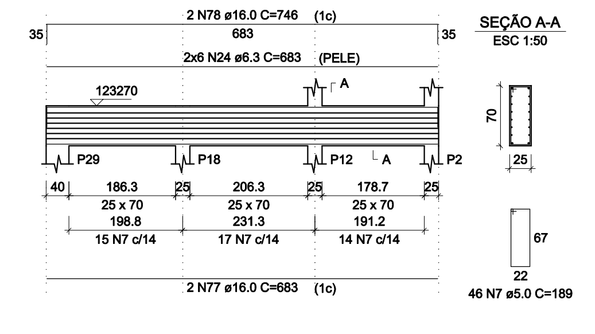
SEÇÃO A-A
ESC 1:50



SUSPENSÃO V28
ESC 1:50

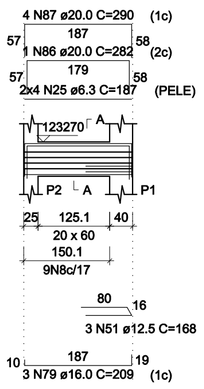


V50
ESC 1:75

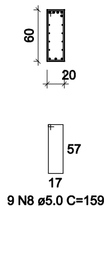


SEÇÃO A-A
ESC 1:50

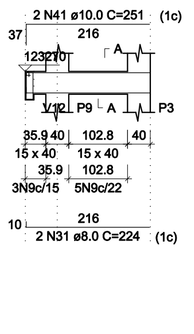
V51
ESC 1:75



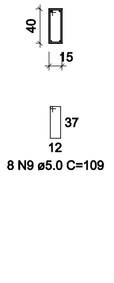
SEÇÃO A-A
ESC 1:50



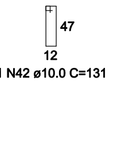
V52
ESC 1:75



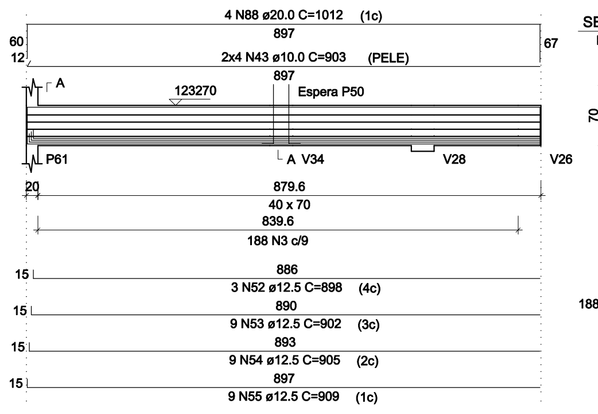
SEÇÃO A-A
ESC 1:50



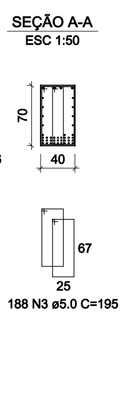
SUSPENSÃO V12
ESC 1:50



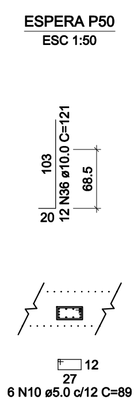
V53
ESC 1:75



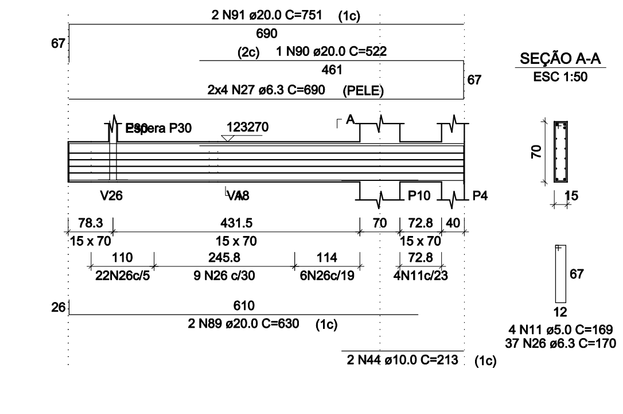
SEÇÃO A-A
ESC 1:50



ESPERA P50
ESC 1:50

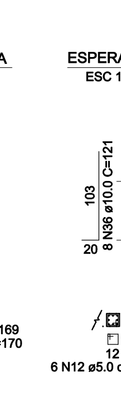


V54
ESC 1:75

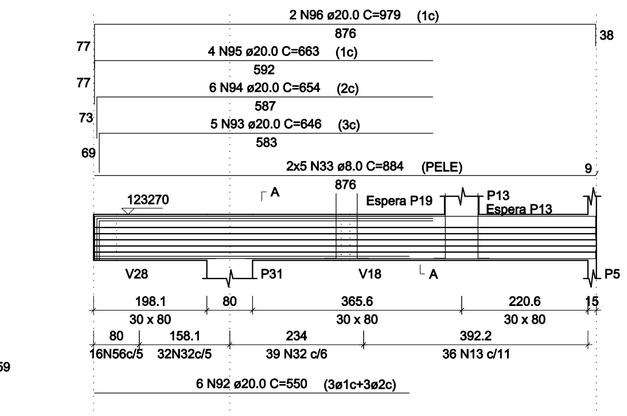


SEÇÃO A-A
ESC 1:50

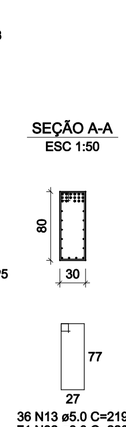
ESPERA P30
ESC 1:50



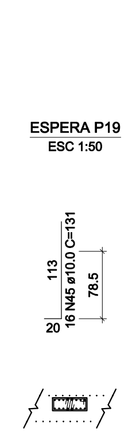
V55
ESC 1:75



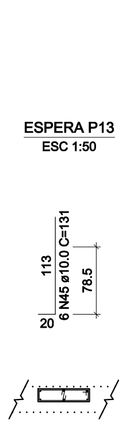
SEÇÃO A-A
ESC 1:50



ESPERA P19
ESC 1:50



ESPERA P13
ESC 1:50



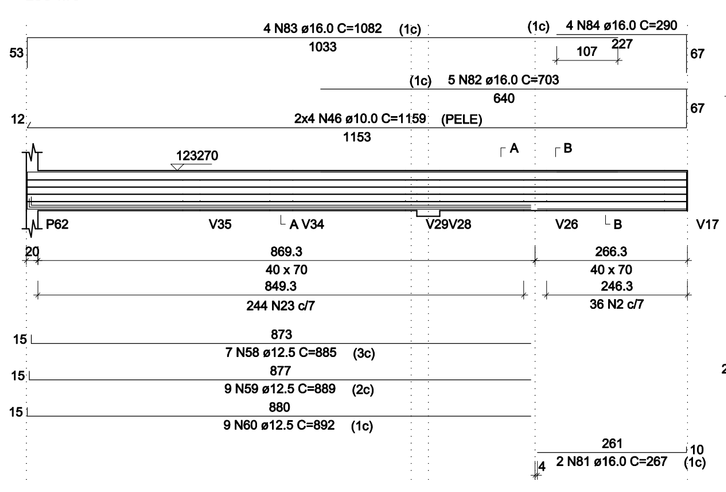
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	1195.3	100	12 m	292.5
	8.0	249.1	21	12 m	98.3
	10.0	598.8	50	12 m	369.2
	12.5	660.3	56	12 m	636.1
	16.0	799.9	67	12 m	1262.5
	20.0	286.4	24	12 m	706.3
CA60	5.0	1943.5	162	12 m	299.6

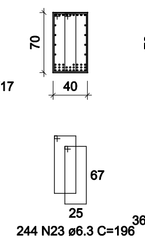
PESO TOTAL (kg)	
CA50	3364.9
CA60	299.6

Volume de concreto (C-30) = 25.47 m³
Área de forma = 203.90 m²

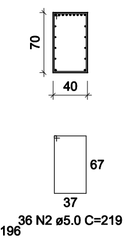
V56
ESC 1:75



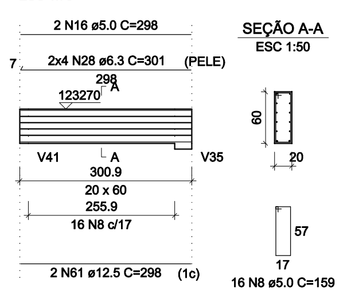
SEÇÃO A-A
ESC 1:50



SEÇÃO B-B
ESC 1:50

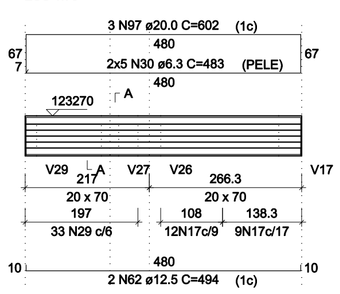


V57
ESC 1:75

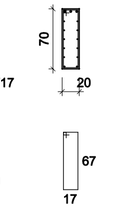


SEÇÃO A-A
ESC 1:50

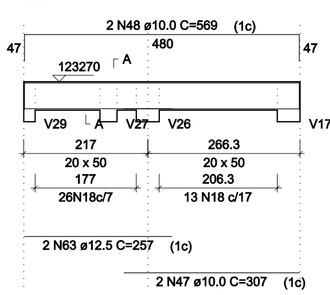
V58
ESC 1:75



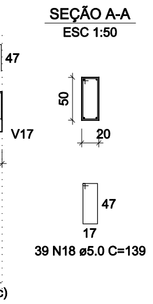
SEÇÃO A-A
ESC 1:50



V59
ESC 1:75



SEÇÃO A-A
ESC 1:50



PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

.macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA:
• Vigas do Pavimento 1 03-04

PRANCHA: 16/27

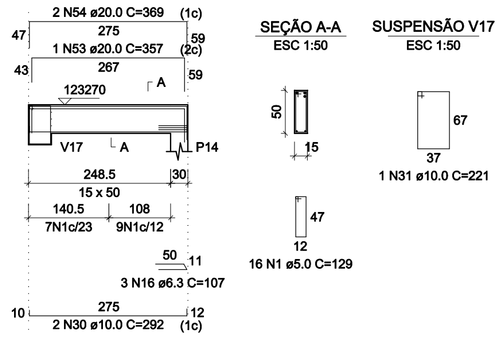
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

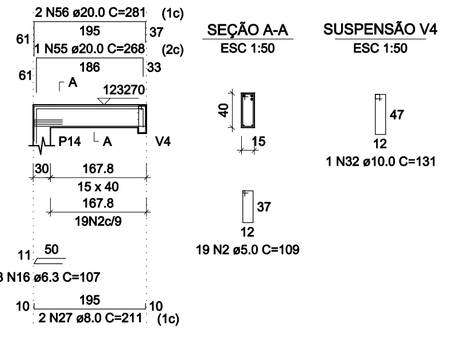
V60
ESC 1:75



SEÇÃO A-A
ESC 1:50

SUSPENSÃO V17
ESC 1:50

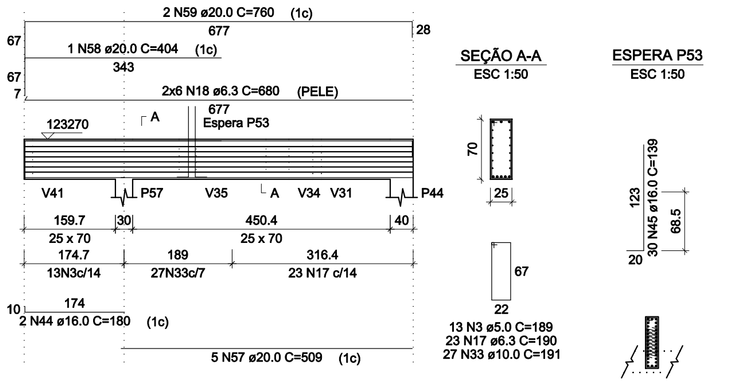
V61
ESC 1:75



SEÇÃO A-A
ESC 1:50

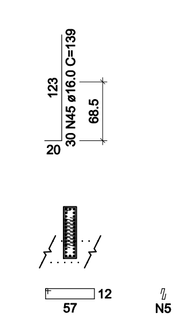
SUSPENSÃO V4
ESC 1:50

V62
ESC 1:75



SEÇÃO A-A
ESC 1:50

ESPERA P53
ESC 1:50



RELAÇÃO DO AÇO

V60	V61	V62
V63	V64	V65
V66	V67	V68
V69	V70	V71
V72		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	22	129	2838
	2	5.0	34	109	3706
	3	5.0	13	189	2457
	4	5.0	10	148	1480
	5	5.0	80	27	2160
	6	5.0	104	229	23816
	7	5.0	7	88	616
	8	5.0	7	27	189
	9	5.0	30	27	810
	10	5.0	12	169	2028
	11	5.0	10	157	1570
	12	5.0	7	97	679
	13	5.0	15	117	1755
	14	5.0	77	199	15323
	15	5.0	67	187	12529
CA50	16	6.3	6	107	642
	17	6.3	23	190	4370
	18	6.3	12	680	8160
	19	6.3	18	1146	20628
	20	6.3	8	367	2936
	21	6.3	1	127	127
	22	6.3	8	272	2176
	23	6.3	1	90	90
	24	6.3	13	118	1534
	25	6.3	14	897	12558
	26	6.3	14	820	11480
	27	8.0	2	211	422
	28	8.0	18	230	4140
	29	8.0	2	195	390
	30	10.0	2	292	584
	31	10.0	1	221	221
	32	10.0	1	131	131
	33	10.0	27	191	5157
	34	10.0	10	131	1310
	35	10.0	2	252	504
	36	10.0	2	272	544
	37	10.0	2	202	404
	38	10.0	2	238	476
	39	10.0	2	413	826
	40	12.5	24	139	3336
	41	12.5	2	182	364
	42	12.5	2	243	486
	43	12.5	2	296	592
	44	16.0	2	180	360
	45	16.0	30	139	4170
	46	16.0	5	532	2660
	47	16.0	2	1165	2330
	48	16.0	2	382	764
	49	16.0	2	427	854
	50	16.0	3	912	2736
	51	16.0	2	820	1640
	52	16.0	2	941	1882
	53	20.0	1	357	357
	54	20.0	2	369	738
	55	20.0	1	268	268
	56	20.0	2	281	562
	57	20.0	5	509	2545
	58	20.0	1	404	404
	59	20.0	2	760	1520
	60	20.0	2	765	1530
	61	20.0	2	789	1578
	62	20.0	2	1062	2124
	63	20.0	2	325	650
	64	20.0	2	387	774
	65	20.0	2	321	642
	66	20.0	2	413	826
	67	20.0	2	373	746
	68	20.0	2	973	1946

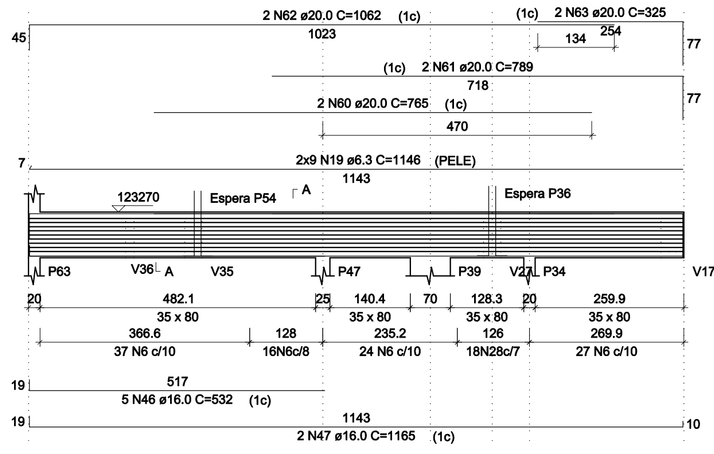
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	647	54	12 m	158.3
	8.0	49.5	5	12 m	19.5
	10.0	101.6	9	12 m	62.6
	12.5	47.8	4	12 m	46
	16.0	174	15	12 m	274.6
	20.0	172.1	15	12 m	424.4
CA60	5.0	719.6	60	12 m	110.9

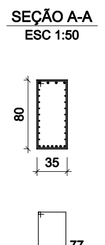
PESO TOTAL (kg)	
CA50	985.5
CA60	110.9

Volume de concreto (C-30) = 9.93 m³
Área de forma = 92.03 m²

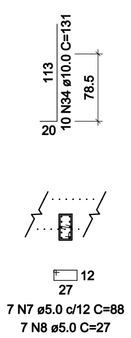
V63
ESC 1:75



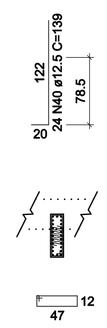
SEÇÃO A-A
ESC 1:50



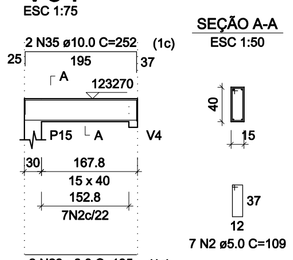
ESPERA P54
ESC 1:50



ESPERA P36
ESC 1:50

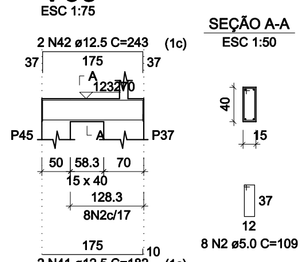


V64
ESC 1:75



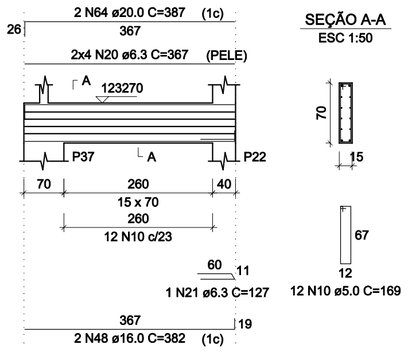
SEÇÃO A-A
ESC 1:50

V65
ESC 1:75



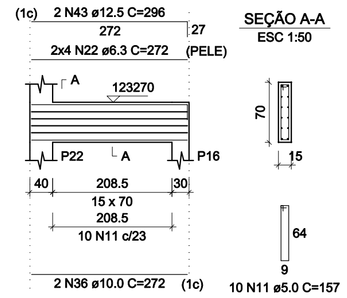
SEÇÃO A-A
ESC 1:50

V66
ESC 1:75



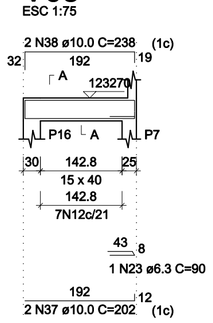
SEÇÃO A-A
ESC 1:50

V67
ESC 1:75

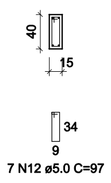


SEÇÃO A-A
ESC 1:50

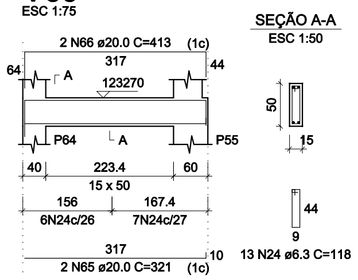
V68
ESC 1:75



SEÇÃO A-A
ESC 1:50

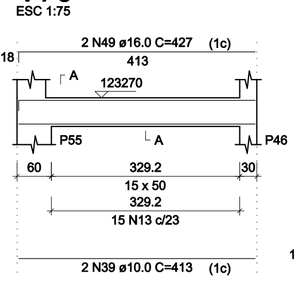


V69
ESC 1:75

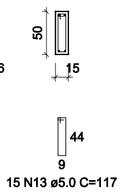


SEÇÃO A-A
ESC 1:50

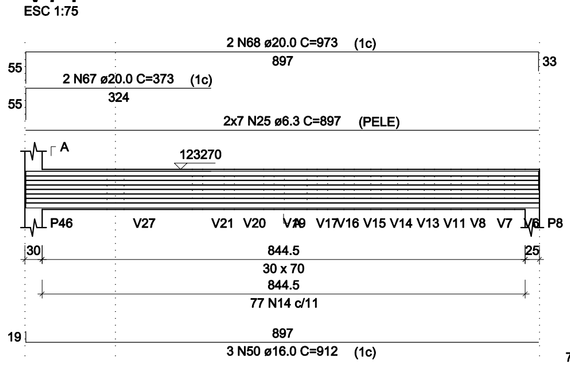
V70
ESC 1:75



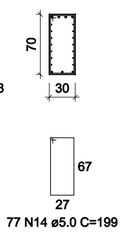
SEÇÃO A-A
ESC 1:50



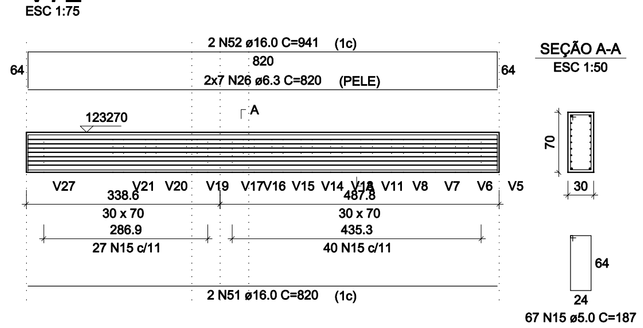
V71
ESC 1:75



SEÇÃO A-A
ESC 1:50



V72
ESC 1:75



SEÇÃO A-A
ESC 1:50

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas do Pavimento 1 04-04

PRANCHA: 17/27

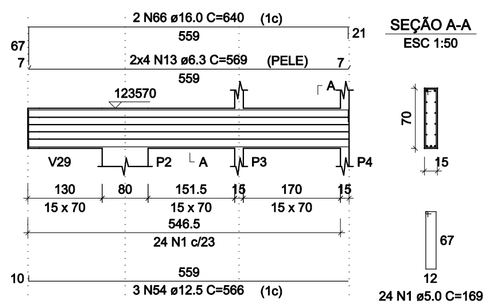
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m²	INDICADA	MG20210618832

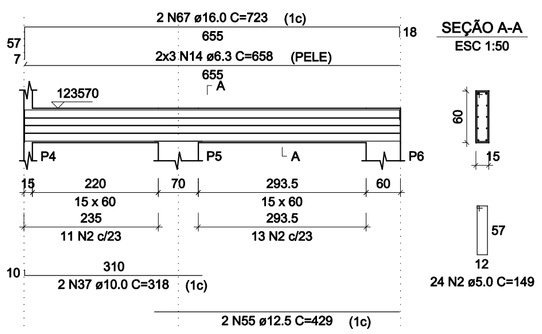
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

V1
ESC 1:75



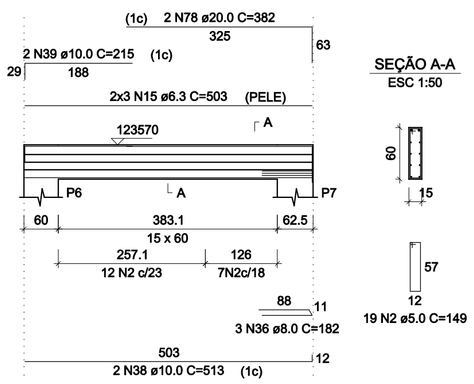
SEÇÃO A-A
ESC 1:50

V2
ESC 1:75



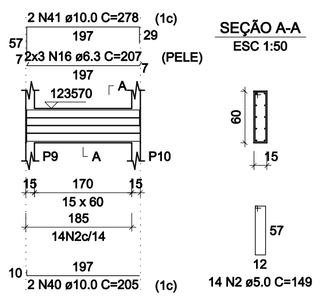
SEÇÃO A-A
ESC 1:50

V3
ESC 1:75



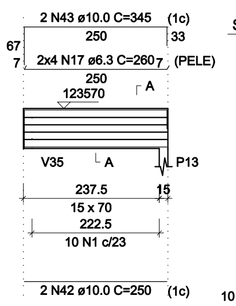
SEÇÃO A-A
ESC 1:50

V4
ESC 1:75



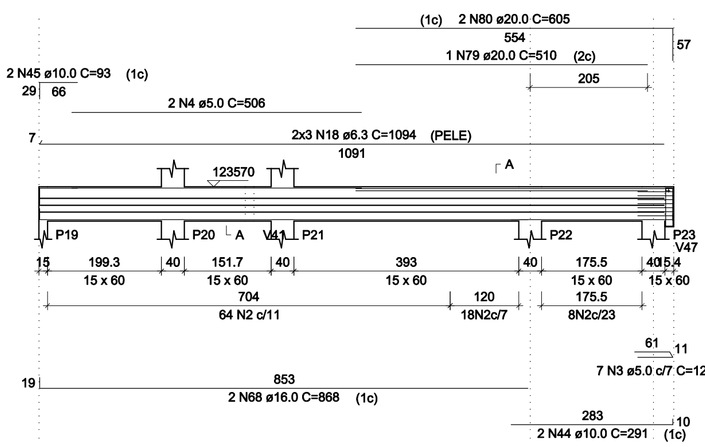
SEÇÃO A-A
ESC 1:50

V5
ESC 1:75

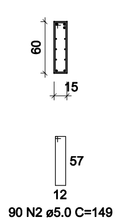


SEÇÃO A-A
ESC 1:50

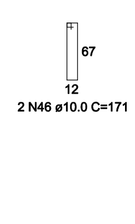
V6
ESC 1:75



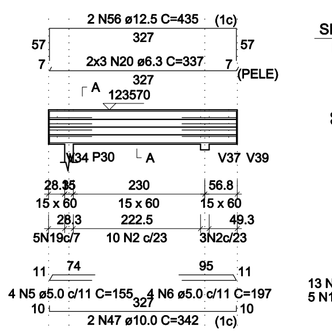
SEÇÃO A-A
ESC 1:50



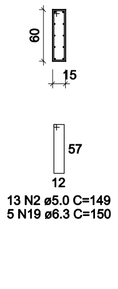
SUSPENSÃO V47
ESC 1:50



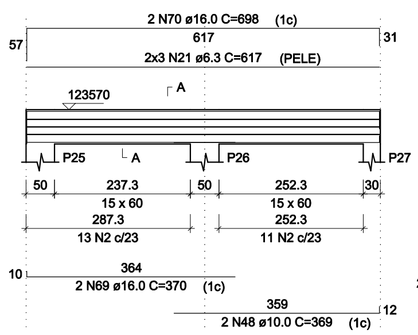
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ESC 1:75



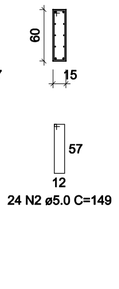
SEÇÃO A-A
ESC 1:50



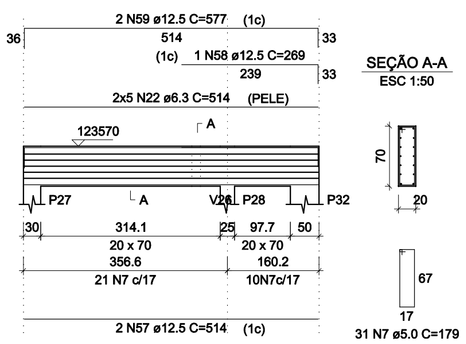
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ESC 1:75



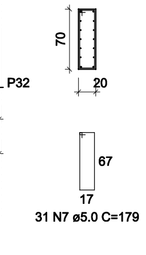
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ESC 1:50



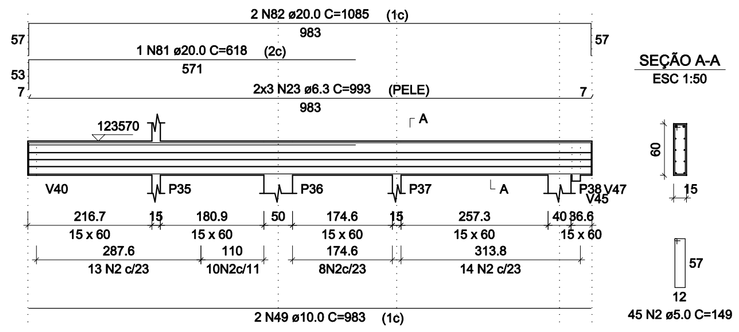
V9
ESC 1:75



SEÇÃO A-A
ESC 1:50

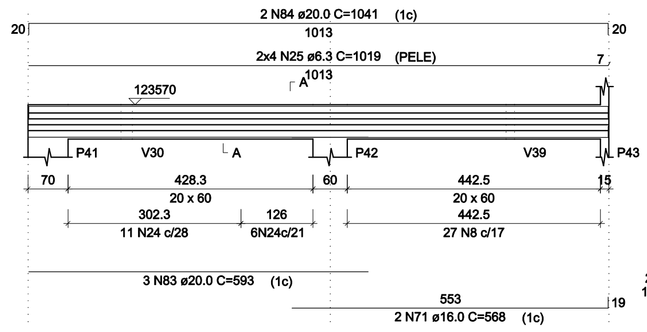


V10
ESC 1:75

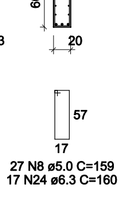


SEÇÃO A-A
ESC 1:50

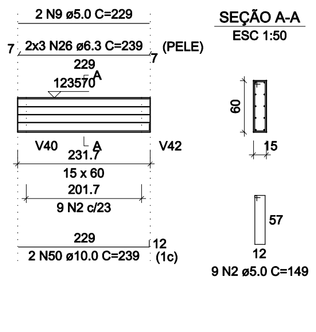
V11
ESC 1:75



SEÇÃO A-A
ESC 1:50

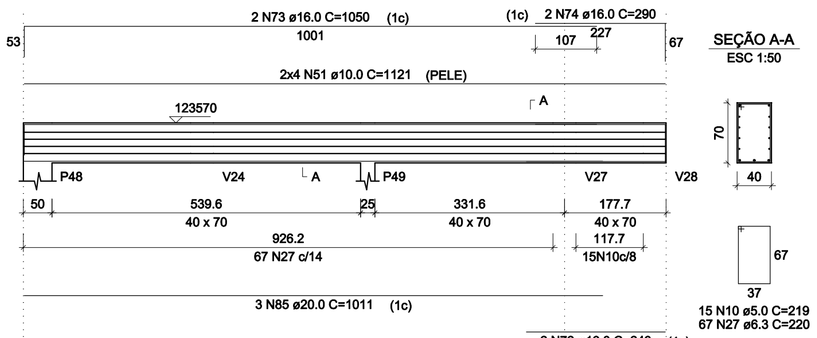


V12
ESC 1:75



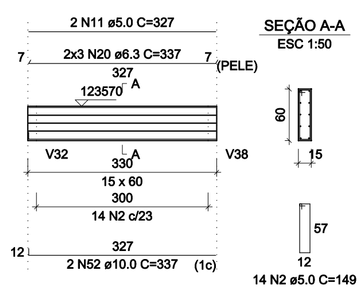
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ESC 1:50

V13
ESC 1:75



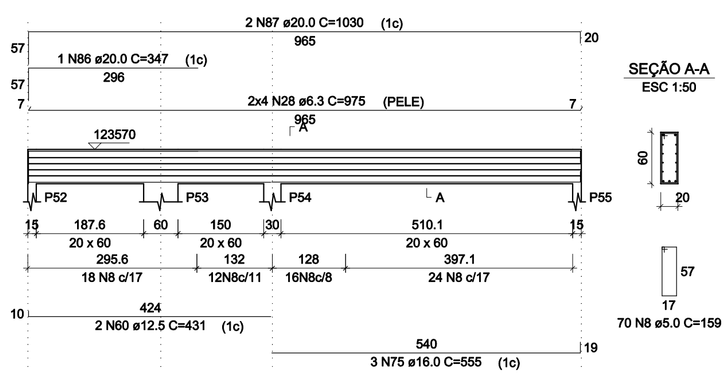
SEÇÃO A-A
ESC 1:50

V14
ESC 1:75



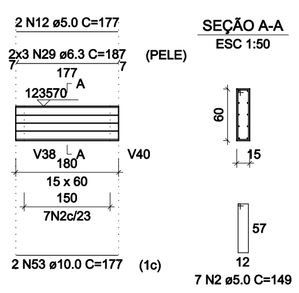
SEÇÃO A-A
ESC 1:50

V15
ESC 1:75



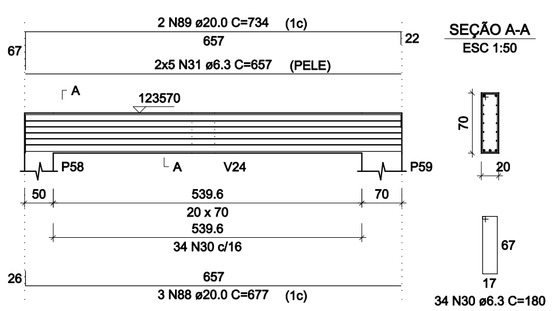
SEÇÃO A-A
ESC 1:50

V16
ESC 1:75



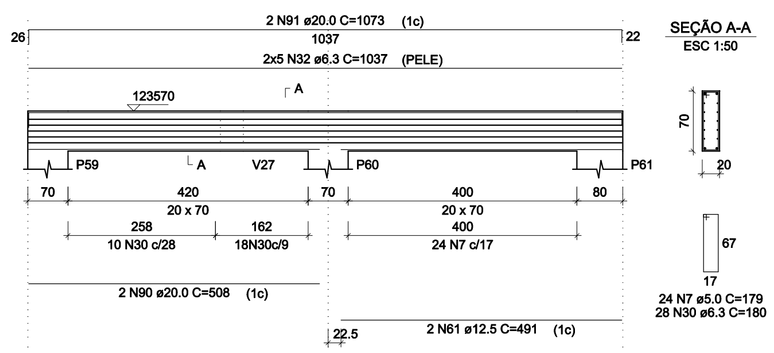
SEÇÃO A-A
ESC 1:50

V17
ESC 1:75



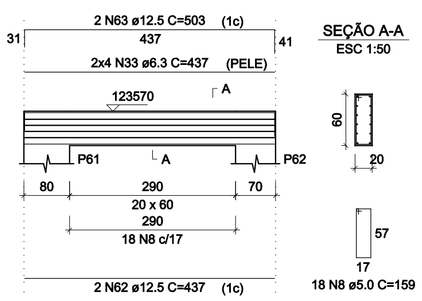
SEÇÃO A-A
ESC 1:50

V18
ESC 1:75



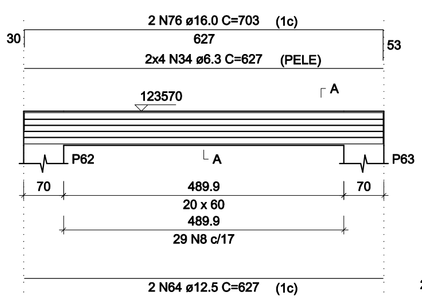
SEÇÃO A-A
ESC 1:50

V19
ESC 1:75

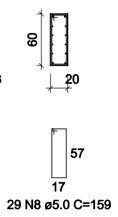


SEÇÃO A-A
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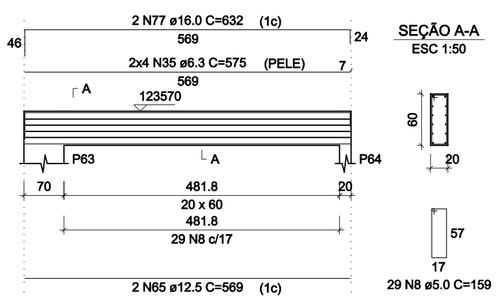
V20
ESC 1:75



SEÇÃO A-A
ESC 1:50



V21
ESC 1:75



SEÇÃO A-A
ESC 1:50

RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15
V16 V17 V18
V19 V20 V21

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	34	169	5746
	2	5.0	259	149	38591
	3	5.0	7	129	903
	4	5.0	2	506	1012
	5	5.0	4	155	620
	6	5.0	4	197	788
	7	5.0	55	179	9845
	8	5.0	173	159	27507
	9	5.0	2	229	458
	10	5.0	15	219	3285
	11	5.0	2	327	654
	12	5.0	2	177	354
CA50	13	6.3	8	569	4552
	14	6.3	6	658	3948
	15	6.3	6	503	3018
	16	6.3	6	207	1242
	17	6.3	8	260	2080
	18	6.3	6	1094	6564
	19	6.3	5	150	750
	20	6.3	12	337	4044
	21	6.3	6	617	3702
	22	6.3	10	514	5140
	23	6.3	6	993	5958
	24	6.3	17	160	2720
	25	6.3	8	1019	8152
	26	6.3	6	239	1434
	27	6.3	67	220	14740
	28	6.3	8	975	7800
	29	6.3	6	187	1122
	30	6.3	62	180	11160
	31	6.3	10	657	6570
	32	6.3	10	1037	10370
	33	6.3	8	437	3496
	34	6.3	8	627	5016
	35	6.3	8	575	4600
	36	8.0	3	182	546
	37	10.0	2	318	636
	38	10.0	2	513	1026
	39	10.0	2	215	430
	40	10.0	2	205	410
	41	10.0	2	278	556
	42	10.0	2	250	500
	43	10.0	2	345	690
	44	10.0	2	291	582
	45	10.0	2	93	186
	46	10.0	2	171	342
	47	10.0	2	342	684
	48	10.0	2	369	738
	49	10.0	2	983	1966
	50	10.0	2	239	478
	51	10.0	8	1121	8968
	52	10.0	2	337	674
	53	10.0	2	177	354
	54	12.5	3	566	1698
	55	12.5	2	429	858
	56	12.5	2	435	870
	57	12.5	2	514	1028
	58	12.5	1	269	269
	59	12.5	2	577	1154
	60	12.5	2	431	862
	61	12.5	2	491	982
	62	12.5	2	437	874
	63	12.5	2	503	1006
	64	12.5	2	627	1254
	65	12.5	2	569	1138
	66	16.0	2	640	1280
	67	16.0	2	723	1446
	68	16.0	2	868	1736
	69	16.0	2	370	740
	70	16.0	2	698	1396
	71	16.0	2	568	1136
	72	16.0	2	243	486
	73	16.0	2	1050	2100
	74	16.0	2	290	580
	75	16.0	3	555	1665
	76	16.0	2	703	1406
	77	16.0	2	632	1264
	78	20.0	2	382	764
	79	20.0	1	510	510
	80	20.0	2	605	1210
	81	20.0	1	618	618
	82	20.0	2	1085	2170
	83	20.0	3	593	1779
	84	20.0	2	1041	2082
	85	20.0	3	1011	3033
	86	20.0	1	347	347
	87	20.0	2	1030	2060
	88	20.0	3	677	2031
	89	20.0	2	734	1468
	90	20.0	2	508	1016
	91	20.0	2	1073	2146

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	1181.8	99	12 m	289.2
	8.0	5.5	1	12 m	2.2
	10.0	192.2	17	12 m	118.5
	12.5	119.9	10	12 m	115.5
	16.0	152.3	13	12 m	240.5
	20.0	212.3	18	12 m	523.7
CA60	5.0	897.6	75	12 m	138.4

PESO TOTAL (kg)	
CA50	1289.5
CA60	138.4

Volume de concreto (C-30) = 16.09 m³
Área de forma = 188.60 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas do Pavimento Cobertura 01–02

PRANCHA: 18/27

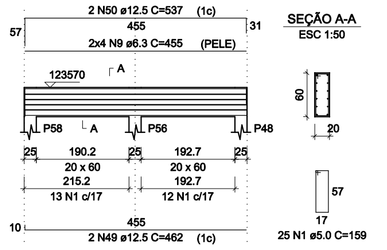
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

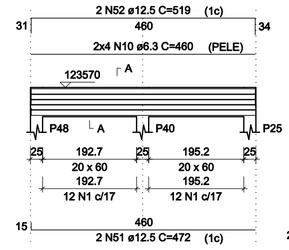
PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90

V22
ESC 1:75

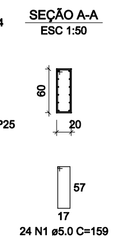


SEÇÃO A-A
ESC 1:50

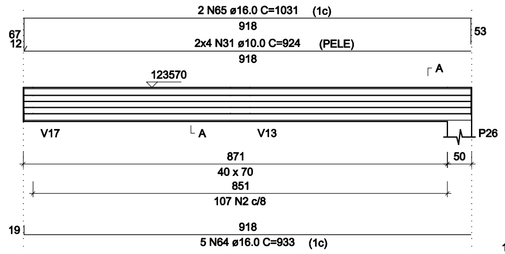
V23
ESC 1:75



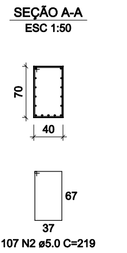
SEÇÃO A-A
ESC 1:50



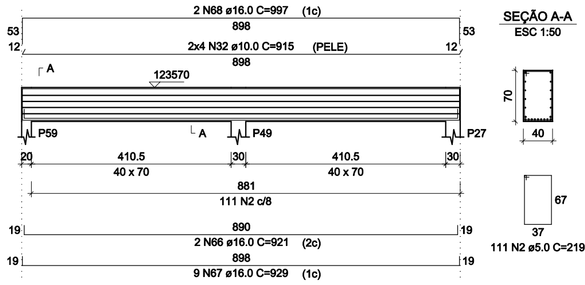
V24
ESC 1:75



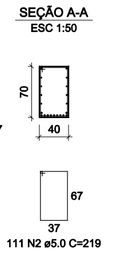
SEÇÃO A-A
ESC 1:50



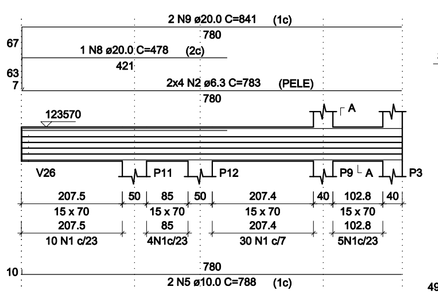
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ESC 1:75



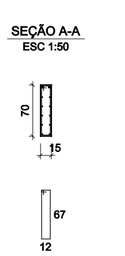
SEÇÃO A-A
ESC 1:50



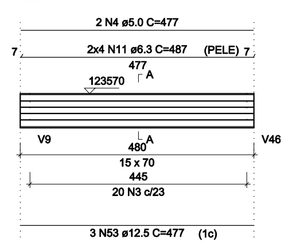
V46
ESC 1:75



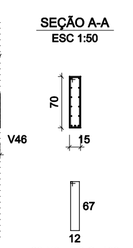
SEÇÃO A-A
ESC 1:50



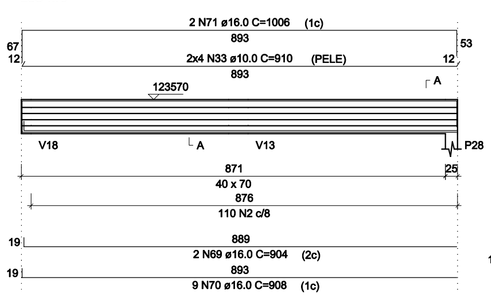
V26
ESC 1:75



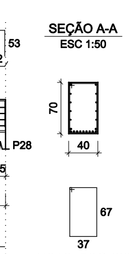
SEÇÃO A-A
ESC 1:50



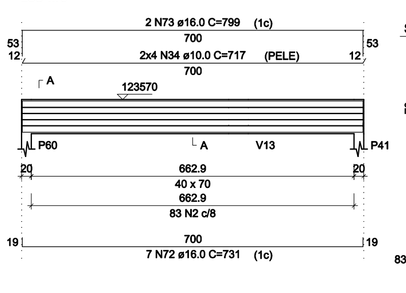
V27
ESC 1:75



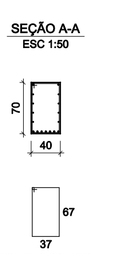
SEÇÃO A-A
ESC 1:50



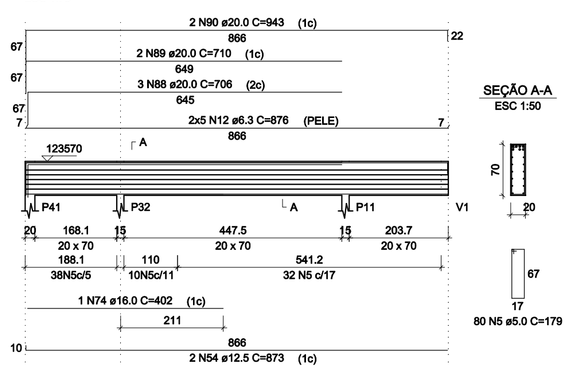
V28
ESC 1:75



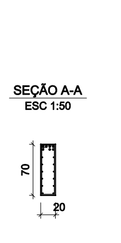
SEÇÃO A-A
ESC 1:50



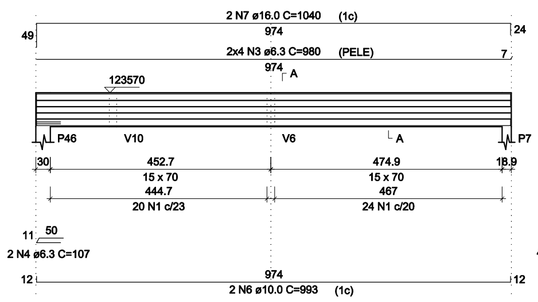
V29
ESC 1:75



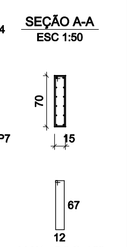
SEÇÃO A-A
ESC 1:50



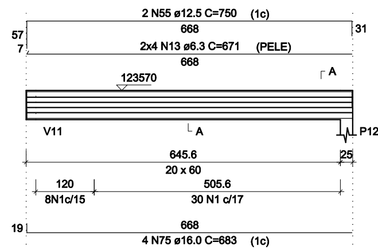
V47
ESC 1:75



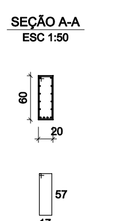
SEÇÃO A-A
ESC 1:50



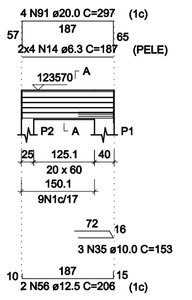
V30
ESC 1:75



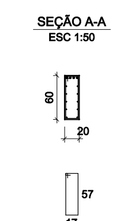
SEÇÃO A-A
ESC 1:50



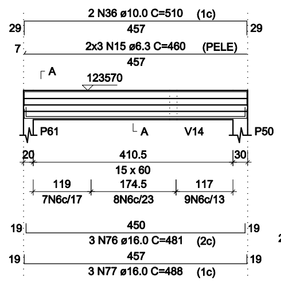
V31
ESC 1:75



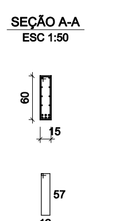
SEÇÃO A-A
ESC 1:50



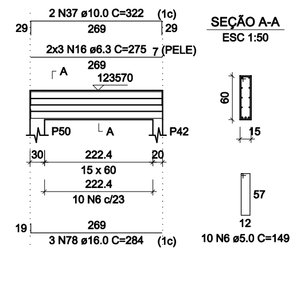
V32
ESC 1:75



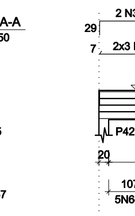
SEÇÃO A-A
ESC 1:50



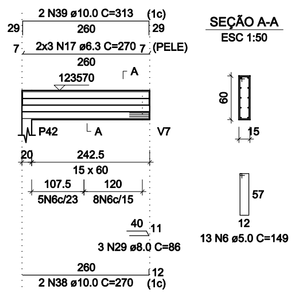
V33
ESC 1:75



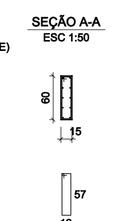
SEÇÃO A-A
ESC 1:50



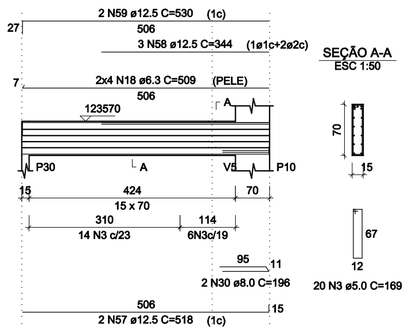
V34
ESC 1:75



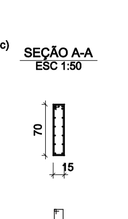
SEÇÃO A-A
ESC 1:50



V35
ESC 1:75



SEÇÃO A-A
ESC 1:50



RELAÇÃO DO AÇO

V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34	V35	V36
V37	V38	V39
V40	V41	V42
V43	V44	V45

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	104	159	16536
	2	5.0	411	219	90009
	3	5.0	71	169	11999
	4	5.0	2	477	954
	5	5.0	80	179	14320
	6	5.0	232	149	34568
	7	5.0	4	165	660
	8	5.0	25	179	4475
CA50	9	6.3	8	455	3640
	10	6.3	8	460	3680
	11	6.3	8	487	3896
	12	6.3	10	876	8760
	13	6.3	8	671	5368
	14	6.3	8	187	1496
	15	6.3	12	460	5520
	16	6.3	6	275	1650
	17	6.3	6	270	1620
	18	6.3	8	509	4072
	19	6.3	6	180	1080
	20	6.3	8	629	5032
	21	6.3	2	77	154
	22	6.3	6	518	3108
	23	6.3	6	916	5496
	24	6.3	6	441	2646
	25	6.3	8	852	5112
	26	6.3	12	310	3720
	27	6.3	6	680	4080
	28	6.3	8	169	1352
	29	8.0	3	86	258
	30	8.0	2	196	392
	31	10.0	8	924	7392
	32	10.0	8	915	7320
	33	10.0	8	910	7280
	34	10.0	8	717	5736
	35	10.0	3	153	459
	36	10.0	4	510	2040
	37	10.0	2	322	644
	38	10.0	2	270	540
	39	10.0	2	313	626
	40	10.0	4	180	720
	41	10.0	2	636	1272
	42	10.0	2	211	422
	43	10.0	2	565	1130
	44	10.0	2	45	90
	45	10.0	2	256	512
	46	10.0	2	512	1024
	47	10.0	2	320	640
	48	10.0	2	434	868
	49	12.5	2	462	924
	50	12.5	2	537	1074
	51	12.5	2	472	944
	52	12.5	2	519	1038
	53	12.5	3	477	1431
	54	12.5	2	873	1746
	55	12.5	2	750	1500
	56	12.5	2	206	412
	57	12.5	2	518	1036
	58	12.5	3	344	1032
	59	12.5	2	530	1060
	60	12.5	3	524	1572
	61	12.5	2	980	1960
	62	12.5	2	329	658
	63	12.5	2	170	340
	64	16.0	1	933	4665
	65	16.0	2	1031	2062
	66	16.0	2	921	1842
	67	16.0	9	929	8361
	68	16.0	2	997	1994
	69	16.0	2	904	1808
	70	16.0	9	908	8172
	71	16.0	2	1006	2012
	72	16.0	7	731	5117
	73	16.0	2	799	1598
	74	16.0	1	402	402
	75	16.0	4	683	2732
	76	16.0	3	481	1443
	77	16.0	3	488	1464
	78	16.0	3	284	852
	79	16.0	3	472	1416
	80	16.0	2	585	1170
	81	16.0	2	462	924
	82	16.0	2	524	1048
	83	16.0	2	871	1742
	84	16.0	2	315	630
	85	16.0	2	365	730
	86	16.0	2	748	1496
	87	16.0	2	248	496
	88	20.0	3	706	2118
	89	20.0	2	710	1420
	90	20.0	2	943	1886
	91	20.0	4	297	1188
	92	20.0	1	501	501
	93	20.0	2	509	1018

RELAÇÃO DO AÇO

V46 V47

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	93	169	15717
CA50	2	6.3	8	783	6264
	3	6.3	8	980	7840
	4	6.3	2	107	214
	5	10.0	2	788	1576
	6	10.0	2	993	1986
	7	16.0	2	1040	2080
	8	20.0	1	478	478
	9	20.0	2	841	1682

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	143.2	12	12 m	35
	10.0	35.6	3	12 m	22
	16.0	20.8	2	12 m	32.8
	20.0	21.6	2	12 m	53.3
CA60	5.0	157.2	14	12 m	24.2
PESO TOTAL (kg)					
CA50	143.1				
CA60	24.2				

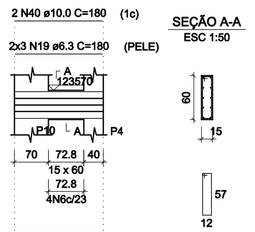
Volume de concreto (C-30) = 1.85 m³
Área de forma = 27.27 m²

RESUMO DO AÇO

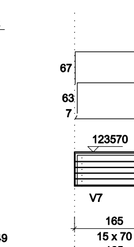
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	714.8	60	12 m	174.9
	8.0	6.5	1	12 m	2.8
	10.0	387.2	33	12 m	238.7
	12.5	167.3	14	12 m	161.1
	16.0	541.8	46	12 m	855.1
	20.0	81.3	7	12 m	200.5
CA60	5.0	1735.2	145	12 m	267.5
PESO TOTAL (kg)					
CA50	1632.9				
CA60	267.5				

Volume de concreto (C-30) = 19.89 m³
Área de forma = 200.08 m²

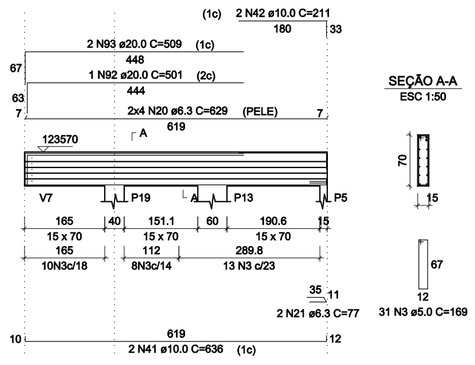
V36
ESC 1:75



SEÇÃO A-A
ESC 1:50

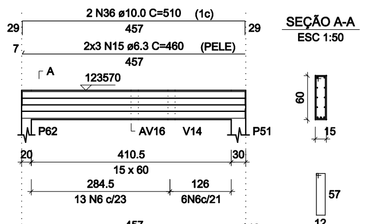


V37
ESC 1:75

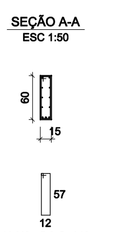


SEÇÃO A-A
ESC 1:50

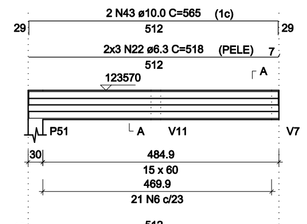
V38
ESC 1:75



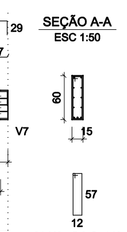
SEÇÃO A-A
ESC 1:50



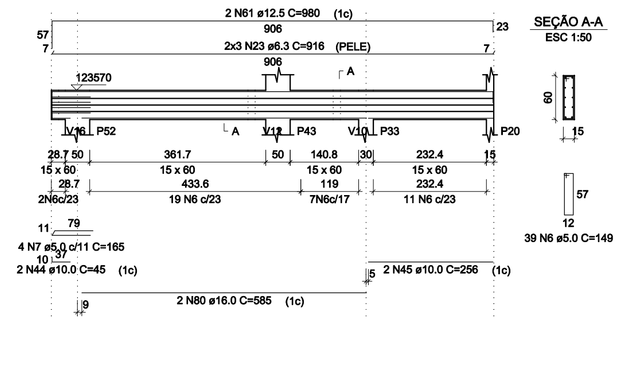
V39
ESC 1:75



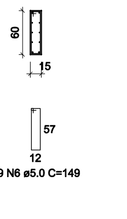
SEÇÃO A-A
ESC 1:50



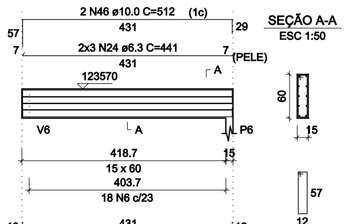
V40
ESC 1:75



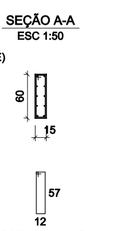
SEÇÃO A-A
ESC 1:50



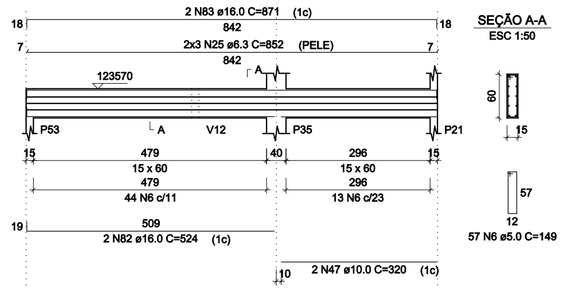
V41
ESC 1:75



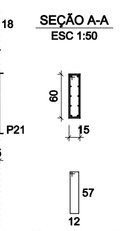
SEÇÃO A-A
ESC 1:50



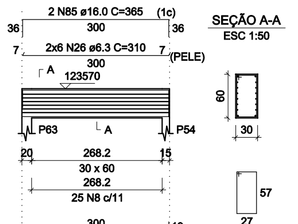
V42
ESC 1:75



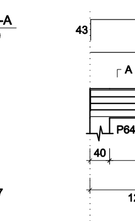
SEÇÃO A-A
ESC 1:50



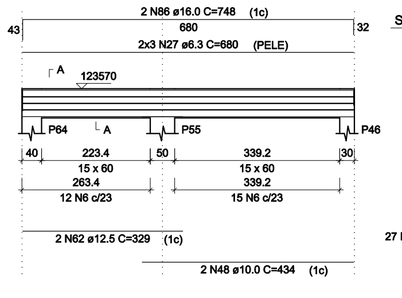
V43
ESC 1:75



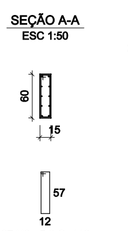
SEÇÃO A-A
ESC 1:50



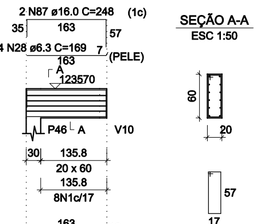
V44
ESC 1:75



SEÇÃO A-A
ESC 1:50



V45
ESC 1:75



SEÇÃO A-A
ESC 1:50

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº59, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA:
• Vigas do Pavimento Cobertura 02-02

PRANCHA: 19/27

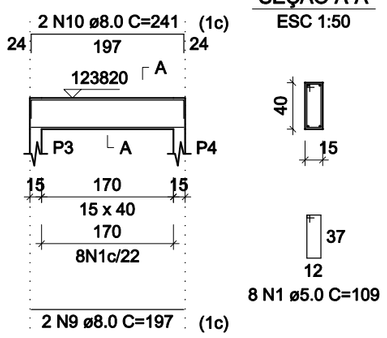
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m²	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

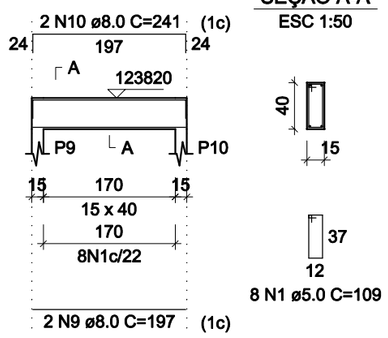
V1
ESC 1:75



SEÇÃO A-A
ESC 1:50

8 N1 ø5.0 C=109

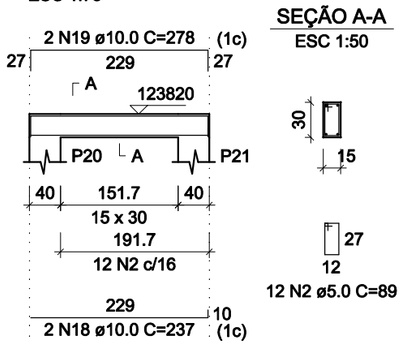
V2
ESC 1:75



SEÇÃO A-A
ESC 1:50

8 N1 ø5.0 C=109

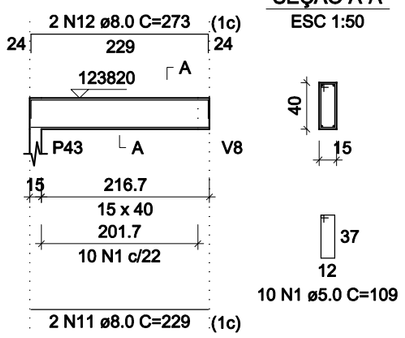
V3
ESC 1:75



SEÇÃO A-A
ESC 1:50

12 N2 ø5.0 C=89

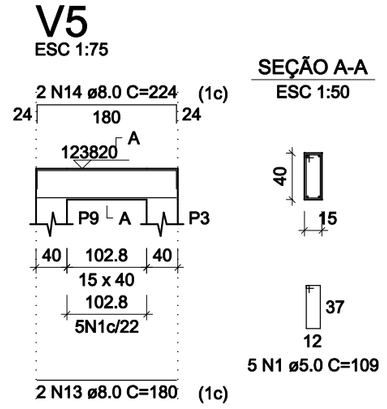
V4
ESC 1:75



SEÇÃO A-A
ESC 1:50

10 N1 ø5.0 C=109

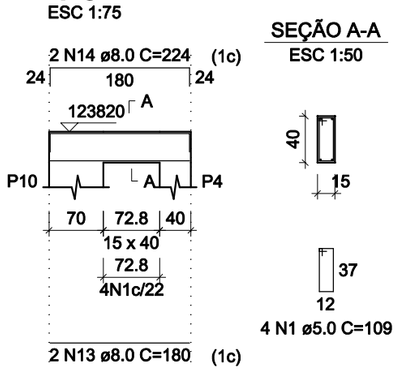
V5
ESC 1:75



SEÇÃO A-A
ESC 1:50

5 N1 ø5.0 C=109

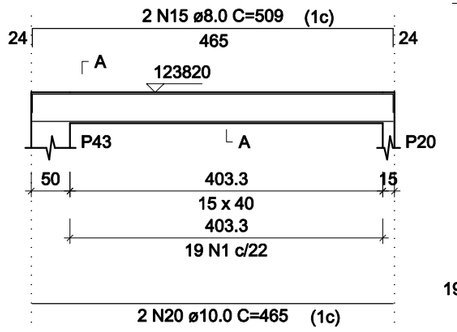
V6
ESC 1:75



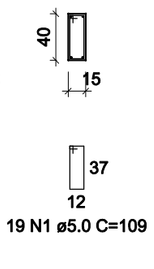
SEÇÃO A-A
ESC 1:50

4 N1 ø5.0 C=109

V7
ESC 1:75

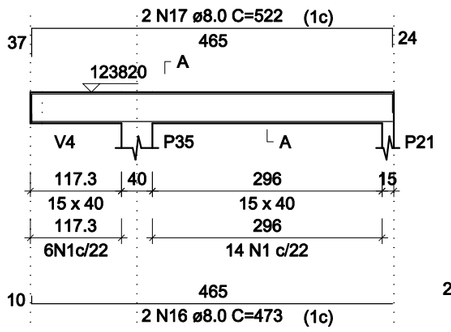


SEÇÃO A-A
ESC 1:50

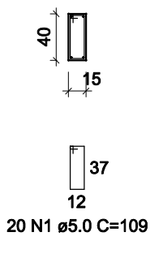


19 N1 ø5.0 C=109

V8
ESC 1:75

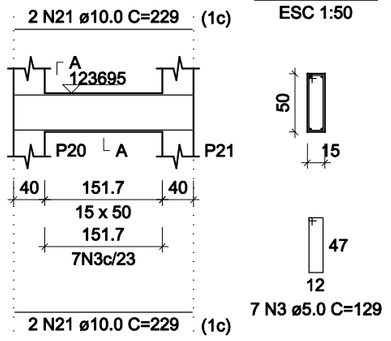


SEÇÃO A-A
ESC 1:50



20 N1 ø5.0 C=109

V9
ESC 1:75



SEÇÃO A-A
ESC 1:50

7 N3 ø5.0 C=129

RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	74	109	8066
	2	5.0	12	89	1068
	3	5.0	7	129	903
	4	5.0	46	149	6854
CA50	5	6.3	6	239	1434
	6	6.3	1	77	77
	7	6.3	6	471	2826
	8	6.3	6	475	2850
	9	8.0	4	197	788
	10	8.0	4	241	964
	11	8.0	2	229	458
	12	8.0	2	273	546
	13	8.0	4	180	720
	14	8.0	4	224	896
	15	8.0	2	509	1018
	16	8.0	2	473	946
	17	8.0	2	522	1044
	18	10.0	2	237	474
	19	10.0	2	278	556
	20	10.0	4	465	1860
	21	10.0	4	229	916
	22	10.0	2	239	478
	23	10.0	2	282	564
	24	10.0	2	492	984
	25	10.0	2	473	946
	26	10.0	2	546	1092

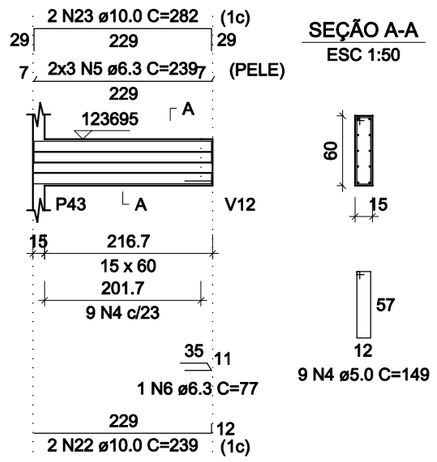
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	71.9	6	12 m	17.6
	8.0	73.8	7	12 m	29.1
	10.0	78.7	7	12 m	48.5
CA60	5.0	168.9	15	12 m	26

PESO TOTAL (kg)	
CA50	95.2
CA60	26

Volume de concreto (C-30) = 2.49 m³
Área de forma = 38.54 m²

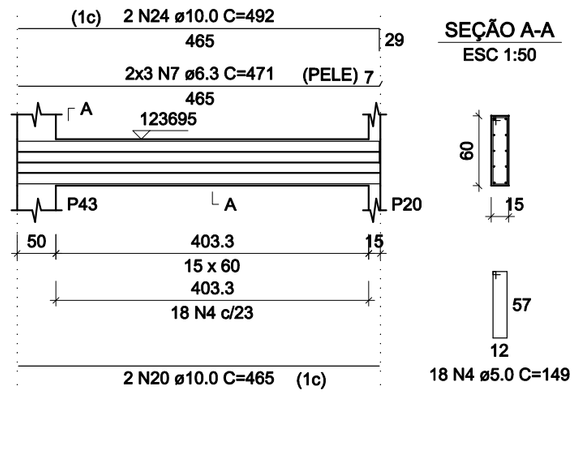
V10
ESC 1:75



SEÇÃO A-A
ESC 1:50

9 N4 ø5.0 C=149

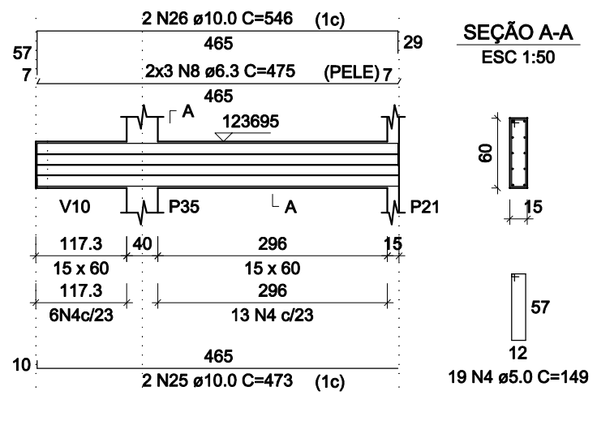
V11
ESC 1:75



SEÇÃO A-A
ESC 1:50

18 N4 ø5.0 C=149

V12
ESC 1:75



SEÇÃO A-A
ESC 1:50

19 N4 ø5.0 C=149

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Vigas da Torre do Elevador e Caixa D'água

PRANCHA: 20/27

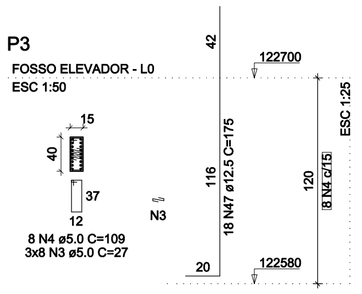
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

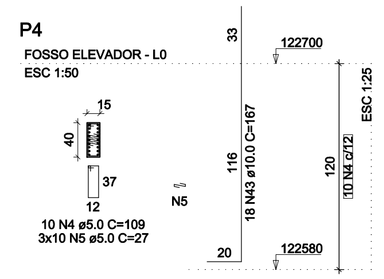
USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

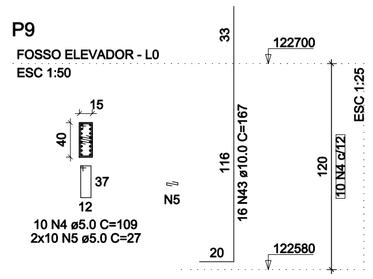
P3
FOSSO ELEVADOR - L0
ESC 1:50



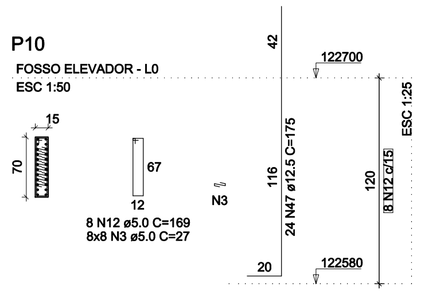
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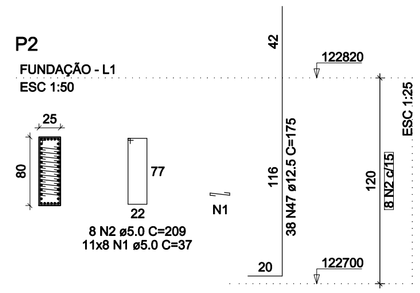
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FOSSO ELEVADOR - L0
ESC 1:50



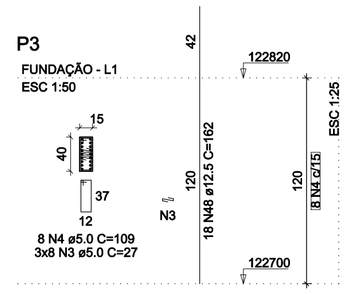
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FOSSO ELEVADOR - L0
ESC 1:50



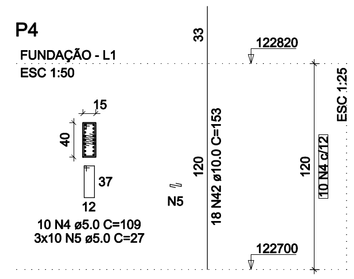
P2
FUNDAÇÃO - L1
ESC 1:50



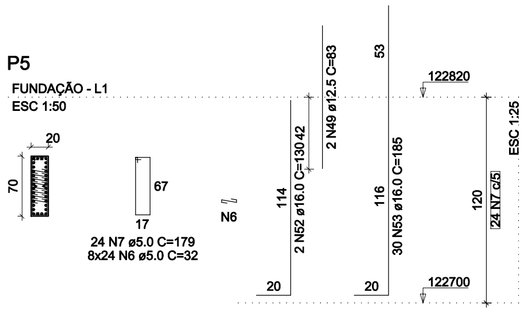
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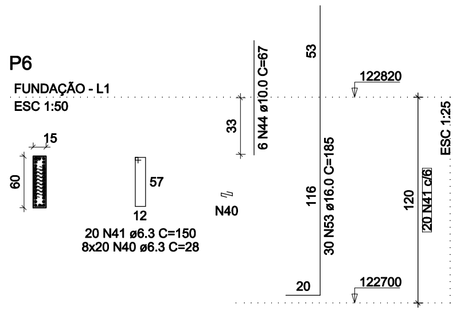
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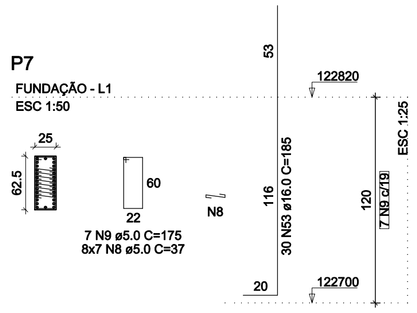
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ESC 1:50



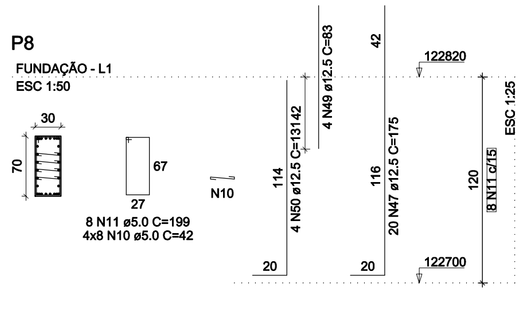
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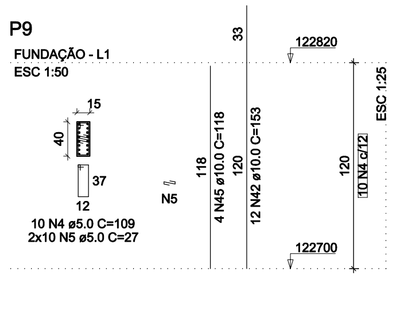
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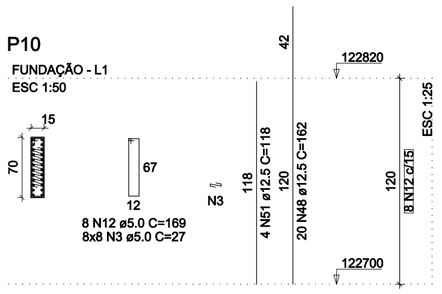
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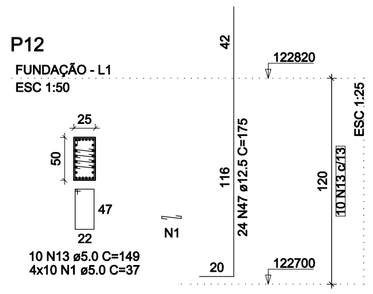
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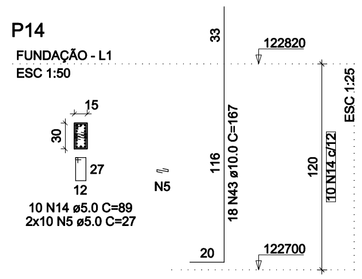
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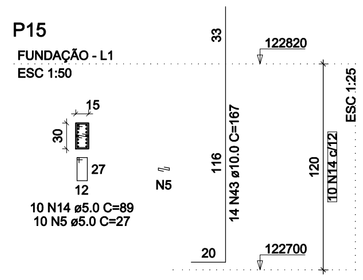
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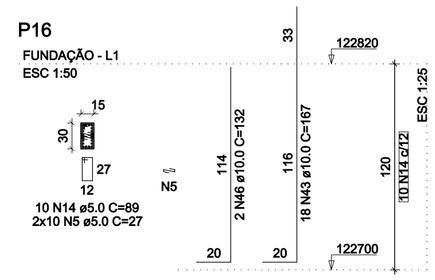
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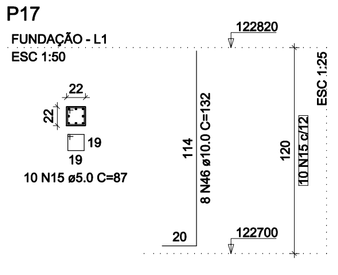
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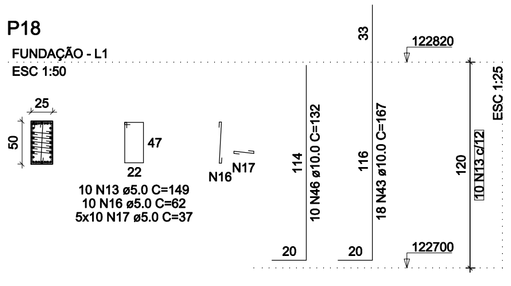
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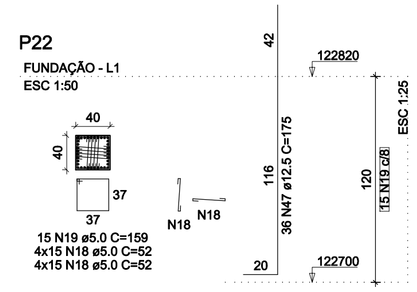
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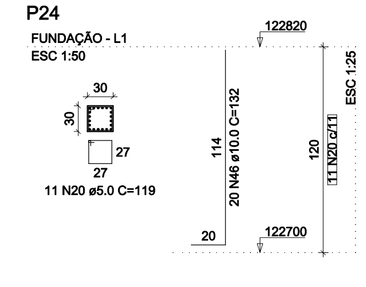
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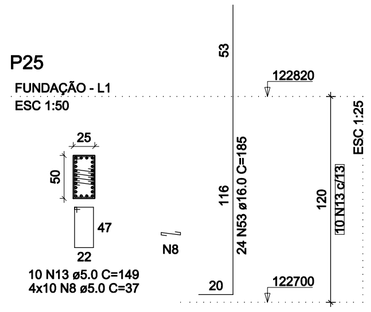
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ESC 1:50



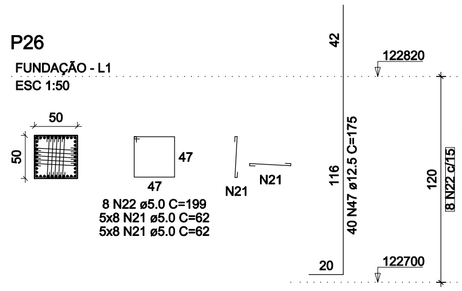
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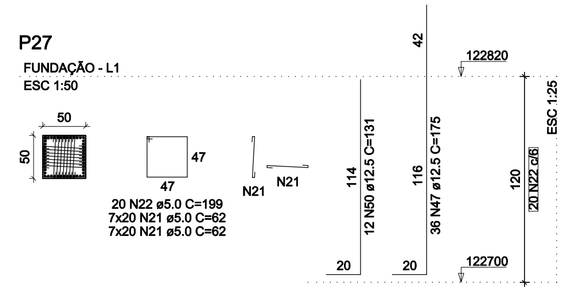
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ESC 1:50



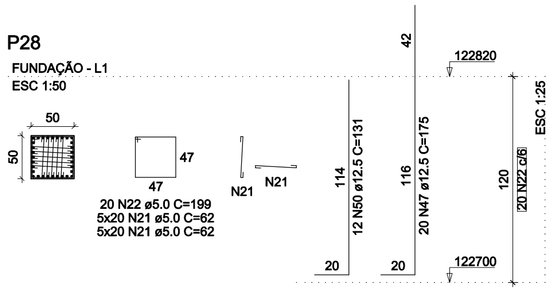
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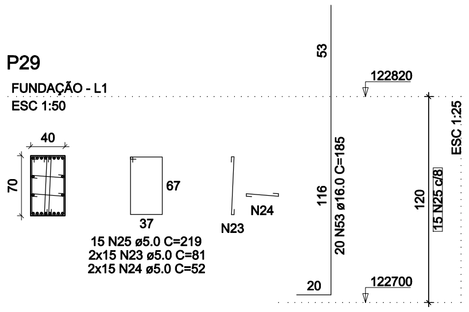
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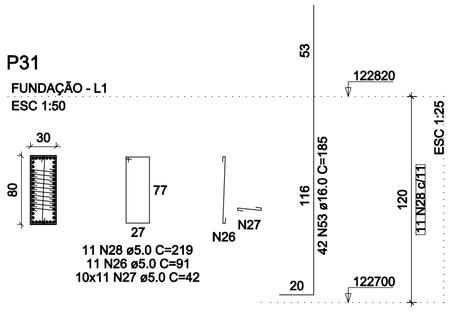
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ESC 1:50



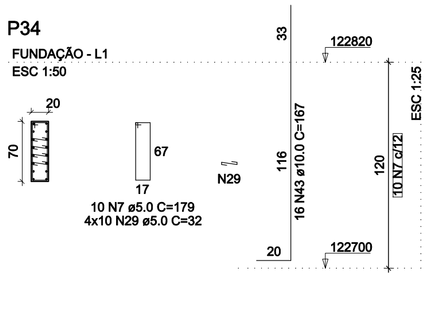
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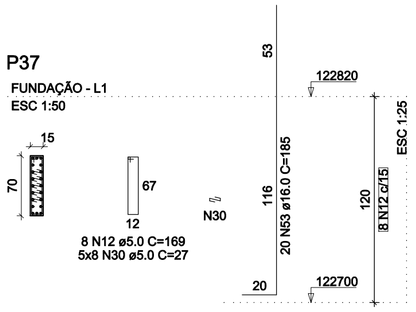
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ESC 1:50



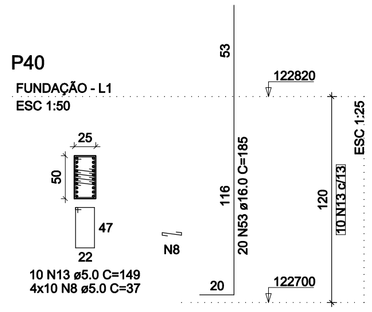
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ESC 1:50



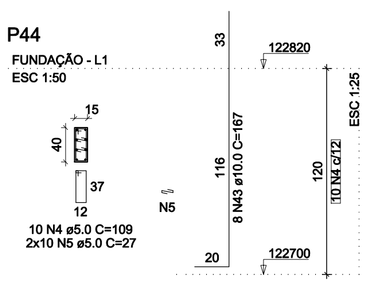
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FUNDAÇÃO - L1
ESC 1:50



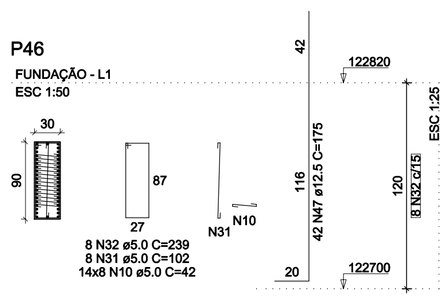
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ESC 1:50



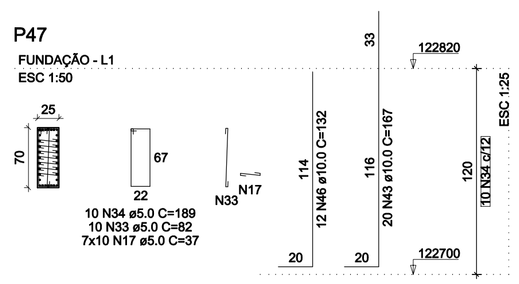
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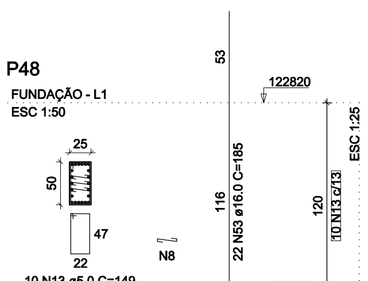
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ESC 1:50



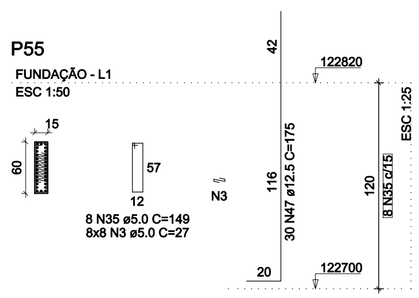
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ESC 1:50



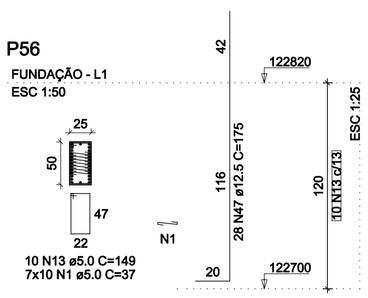
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FUNDAÇÃO - L1
ESC 1:50



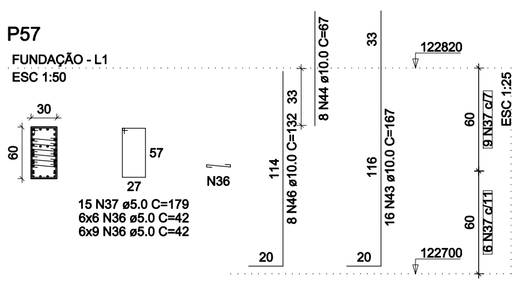
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ESC 1:50



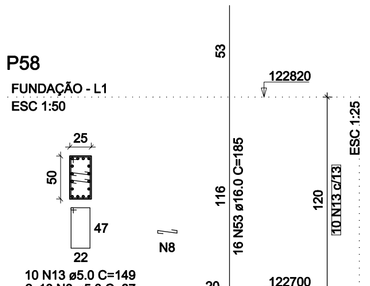
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ESC 1:50



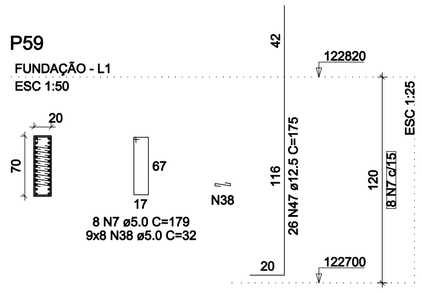
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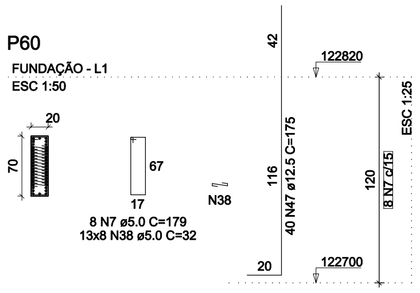
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ESC 1:50



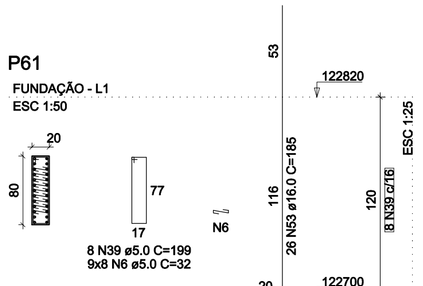
P59
FUNDAÇÃO - L1
ESC 1:50



P60
FUNDAÇÃO - L1
ESC 1:50



P61
FUNDAÇÃO - L1
ESC 1:50



RELAÇÃO DO AÇO

P2-L1	P3-L1	P3-L0
P4-L1	P4-L0	P5-L1
P6-L1	P7-L1	P8-L1
P9-L1	P9-L0	P10-L1
P10-L0	P12-L1	P14-L1
P15-L1	P16-L1	P17-L1
P18-L1	P22-L1	P24-L1
P25-L1	P26-L1	P27-L1
P28-L1	P29-L1	P31-L1
P34-L1	P37-L1	P40-L1
P44-L1	P46-L1	P47-L1
P48-L1	P55-L1	P56-L1
P57-L1	P58-L1	P59-L1
P60-L1	P61-L1	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	198	37	7326
	2	5.0	8	209	1672
	3	5.0	240	27	6480
	4	5.0	66	109	7194
	5	5.0	170	27	4590
	6	5.0	264	32	8448
	7	5.0	50	179	8950
	8	5.0	186	37	6882
	9	5.0	7	175	1225
	10	5.0	144	42	6048
	11	5.0	8	199	1592
	12	5.0	24	169	4056
	13	5.0	70	149	10430
	14	5.0	30	89	2670
	15	5.0	10	87	870
	16	5.0	10	62	620
	17	5.0	120	37	4440
	18	5.0	120	52	6240
	19	5.0	15	159	2385
	20	5.0	11	119	1309
	21	5.0	560	62	34720
	22	5.0	48	199	9552
	23	5.0	30	81	2430
	24	5.0	30	52	1560
	25	5.0	15	219	3285
	26	5.0	11	91	1001
	27	5.0	110	42	4620
	28	5.0	11	219	2409
	29	5.0	40	32	1280
	30	5.0	40	27	1080
	31	5.0	8	102	816
	32	5.0	8	239	1912
	33	5.0	10	82	820
	34	5.0	10	189	1890
	35	5.0	8	149	1192
	36	5.0	90	42	3780
	37	5.0	15	179	2685
	38	5.0	176	32	5632
	39	5.0	8	199	1592
CA50	40	6.3	160	28	4480
	41	6.3	20	150	3000
	42	10.0	30	153	4590
	43	10.0	162	167	27054
	44	10.0	14	67	938
	45	10.0	4	118	472
	46	10.0	60	132	7920
	47	12.5	422	175	73850
	48	12.5	38	162	6156
	49	12.5	6	83	498
	50	12.5	28	131	3668
	51	12.5	4	118	472
	52	16.0	2	130	260
	53	16.0	280	185	51800

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	74.8	7	12 m	18.3
	10.0	409.7	35	12 m	252.6
	12.5	846.4	71	12 m	815.4
	16.0	520.6	44	12 m	821.7
CA60	5.0	1756.8	147	12 m	270.8

PESO TOTAL (kg)	
CA50	1908
CA60	270.8

Volume de concreto (C-30) = 6.49 m³
Área de forma = 77.08 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº739, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 01–07

PRANCHA: 21/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

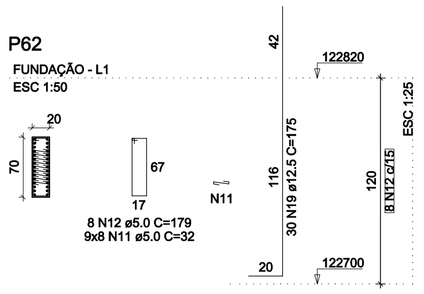
CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

P62

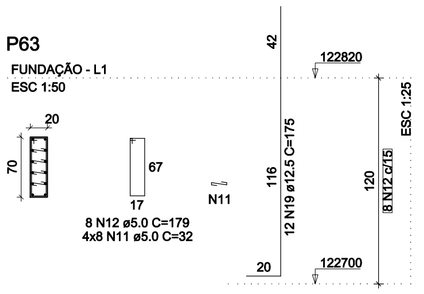
FUNDAÇÃO - L1
ESC 1:50



8 N12 ø5.0 C=179
9x8 N11 ø5.0 C=32

P63

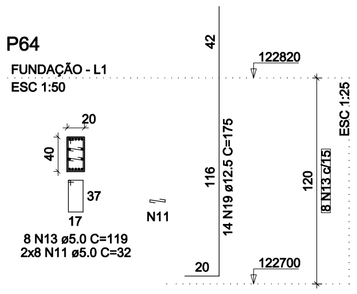
FUNDAÇÃO - L1
ESC 1:50



8 N12 ø5.0 C=179
4x8 N11 ø5.0 C=32

P64

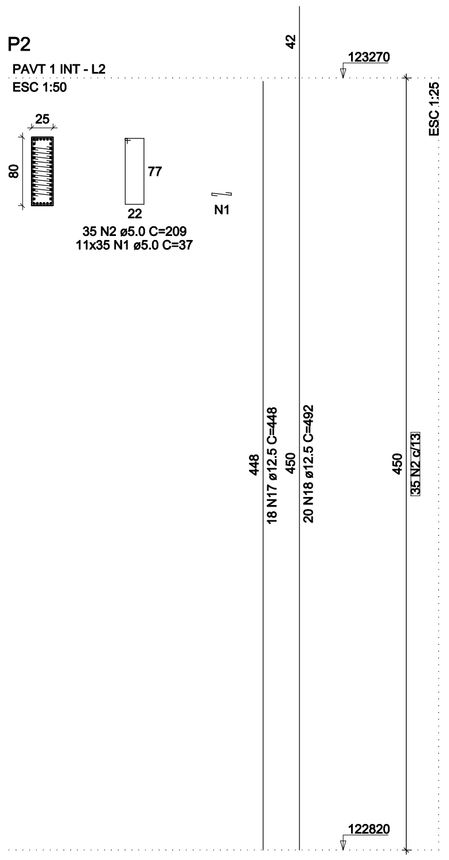
FUNDAÇÃO - L1
ESC 1:50



8 N13 ø5.0 C=119
2x8 N11 ø5.0 C=32

P2

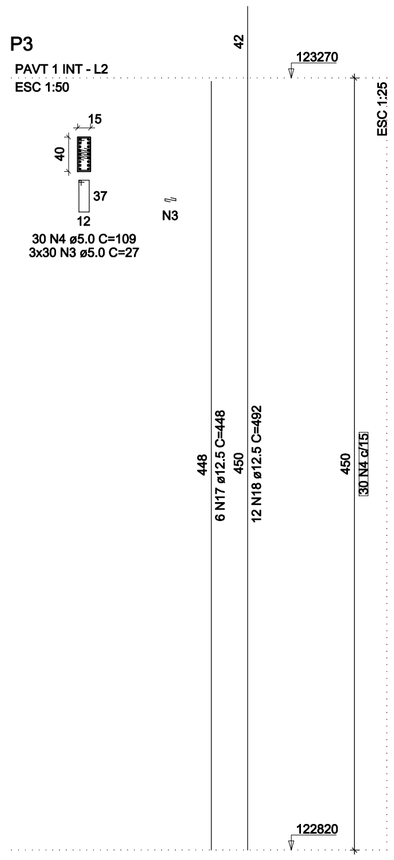
PAVT 1 INT - L2
ESC 1:50



35 N2 ø5.0 C=209
11x35 N1 ø5.0 C=37

P3

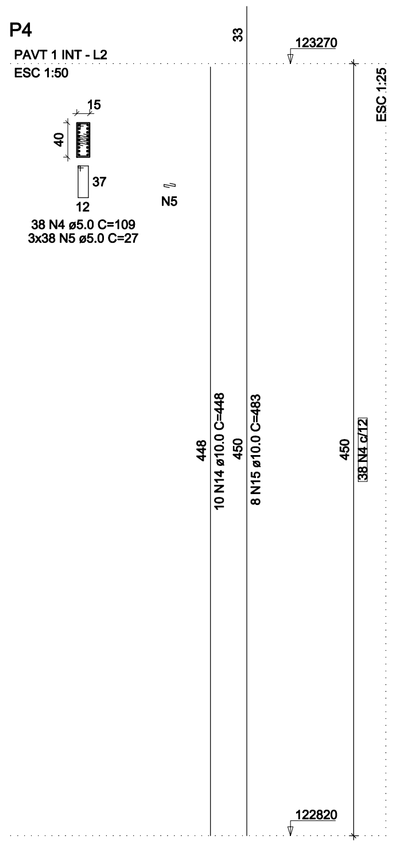
PAVT 1 INT - L2
ESC 1:50



30 N4 ø5.0 C=109
3x30 N3 ø5.0 C=27

P4

PAVT 1 INT - L2
ESC 1:50



38 N4 ø5.0 C=109
3x38 N5 ø5.0 C=27

RELAÇÃO DO AÇO

P2-L2 P3-L2 P4-L2
P5-L2 P6-L2 P7-L2
P8-L2 P9-L2 P10-L2
P62-L1 P63-L1 P64-L1

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	525	37	19425
	2	5.0	35	209	7315
	3	5.0	540	27	14580
	4	5.0	106	109	11554
	5	5.0	570	27	15390
	6	5.0	60	169	10140
	7	5.0	38	149	5662
	8	5.0	304	37	11248
	9	5.0	38	175	6650
	10	5.0	35	189	6615
	11	5.0	120	32	3840
	12	5.0	16	179	2864
	13	5.0	8	119	952
CA50	14	10.0	28	448	12544
	15	10.0	38	483	18354
	16	10.0	18	67	1206
	17	12.5	66	448	29568
	18	12.5	66	492	32472
	19	12.5	56	175	9800
	20	16.0	14	448	6272
	21	16.0	16	503	8048

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	321	27	12 m	197.9
	12.5	718.4	60	12 m	692.1
	16.0	143.2	12	12 m	226
CA60	5.0	1162.4	97	12 m	179.2

PESO TOTAL (kg)	
CA50	1116
CA60	179.2

Volume de concreto (C-30) = 4.98 m³
Área de forma = 68.53 m²

P5

PAVT 1 INT - L2
ESC 1:50

30 N6 ø5.0 C=169
9x30 N3 ø5.0 C=27

P6

PAVT 1 INT - L2
ESC 1:50

38 N7 ø5.0 C=149
10x38 N5 ø5.0 C=27

P7

PAVT 1 INT - L2
ESC 1:50

38 N9 ø5.0 C=175
8x38 N8 ø5.0 C=37

P8

PAVT 1 INT - L2
ESC 1:50

35 N10 ø5.0 C=189
4x35 N1 ø5.0 C=37

P9

PAVT 1 INT - L2
ESC 1:50

38 N4 ø5.0 C=109
2x38 N5 ø5.0 C=27

P10

PAVT 1 INT - L2
ESC 1:50

30 N6 ø5.0 C=169
6x30 N3 ø5.0 C=27

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0884 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 02–07

PRANCHA: 22/27

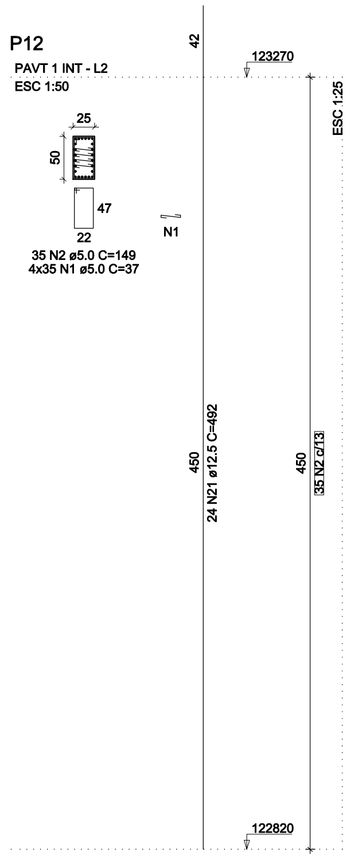
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:		DATA:	REV:
JEQUITIBÁ/MG			00
USO: SERVIÇO PROFISSIONAL	ÁREA: 731,91m?	ESCALA: INDICADA	ART: MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90

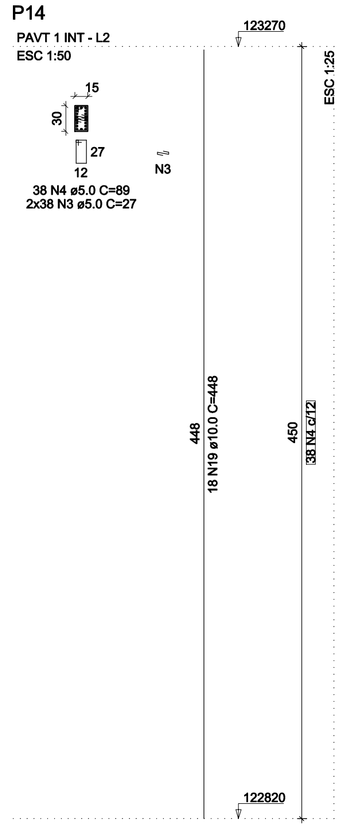
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PAVT 1 INT - L2
ESC 1:50



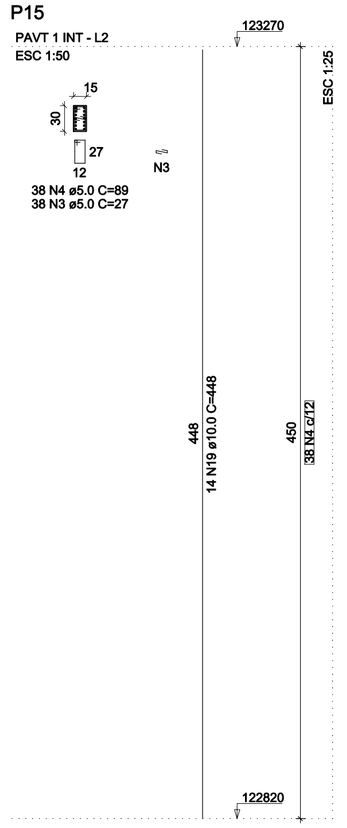
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PAVT 1 INT - L2
ESC 1:50



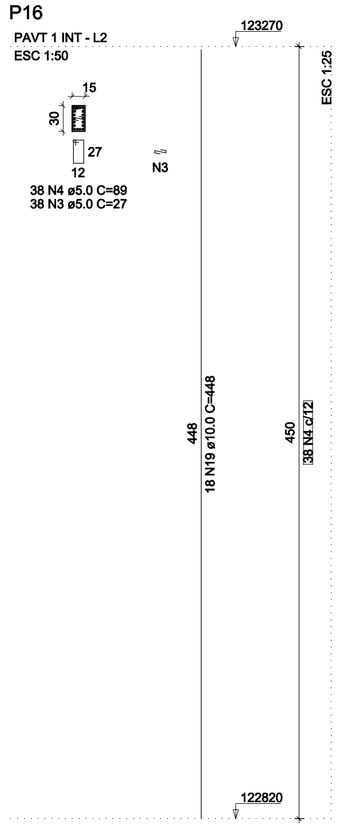
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PAVT 1 INT - L2
ESC 1:50



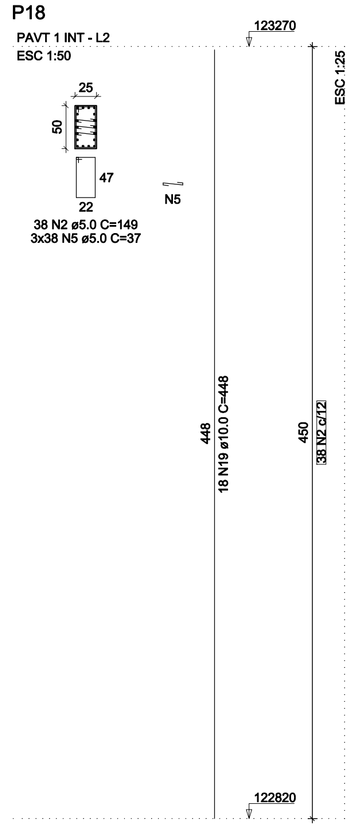
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PAVT 1 INT - L2
ESC 1:50



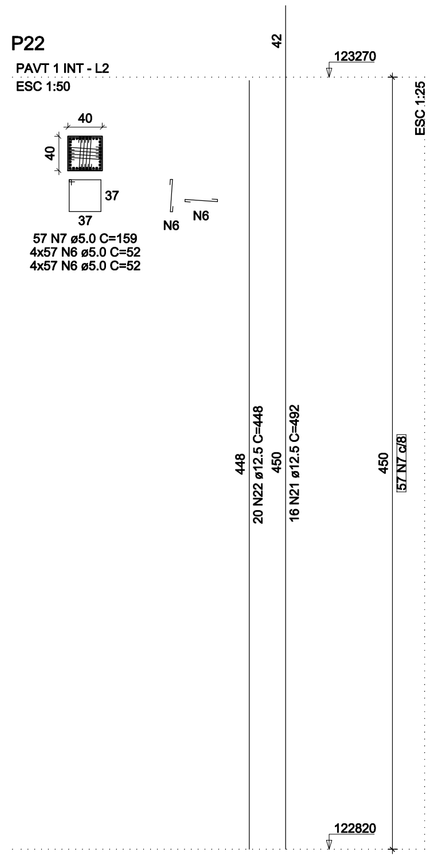
P18

PAVT 1 INT - L2
ESC 1:50



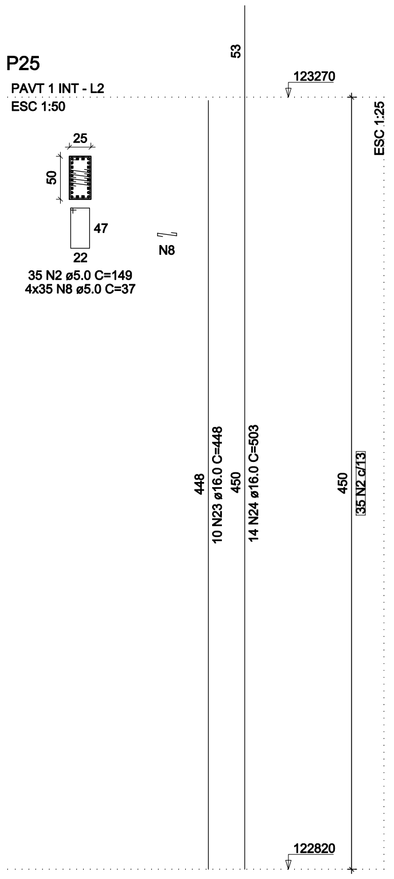
P22

PAVT 1 INT - L2
ESC 1:50



P25

PAVT 1 INT - L2
ESC 1:50



RELAÇÃO DO AÇO

P12 P14 P15
P16 P18 P22
P25 P26 P27
P28 P29 P31
P34

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	140	37	5180
	2	5.0	108	149	16092
	3	5.0	152	27	4104
	4	5.0	114	89	10146
	5	5.0	114	37	4218
	6	5.0	456	52	23712
	7	5.0	57	159	9063
	8	5.0	140	37	5180
	9	5.0	1650	62	102300
	10	5.0	225	199	44775
	11	5.0	114	81	9234
	12	5.0	114	52	5928
	13	5.0	57	219	12483
	14	5.0	41	91	3731
	15	5.0	410	42	17220
	16	5.0	41	219	8979
	17	5.0	152	32	4864
	18	5.0	38	179	6802
CA50	19	10.0	84	448	37632
	20	10.0	8	67	536
	21	12.5	68	492	33456
	22	12.5	88	448	39424
	23	16.0	72	448	32256
	24	16.0	14	503	7042

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	381.7	32	12 m	235.3
	12.5	728.8	61	12 m	702.1
	16.0	393	33	12 m	620.3
CA60	5.0	2940.1	246	12 m	453.2

PESO TOTAL (kg)	
CA50	1557.7
CA60	453.2

Volume de concreto (C-30) = 9.36 m³
Área de forma = 94.50 m²

P26

PAVT 1 INT - L2
ESC 1:50

P27

PAVT 1 INT - L2
ESC 1:50

P28

PAVT 1 INT - L2
ESC 1:50

P29

PAVT 1 INT - L2
ESC 1:50

P31

PAVT 1 INT - L2
ESC 1:50

P34

PAVT 1 INT - L2
ESC 1:50

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

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Projetos e Engenharia
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RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº739, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 03–07

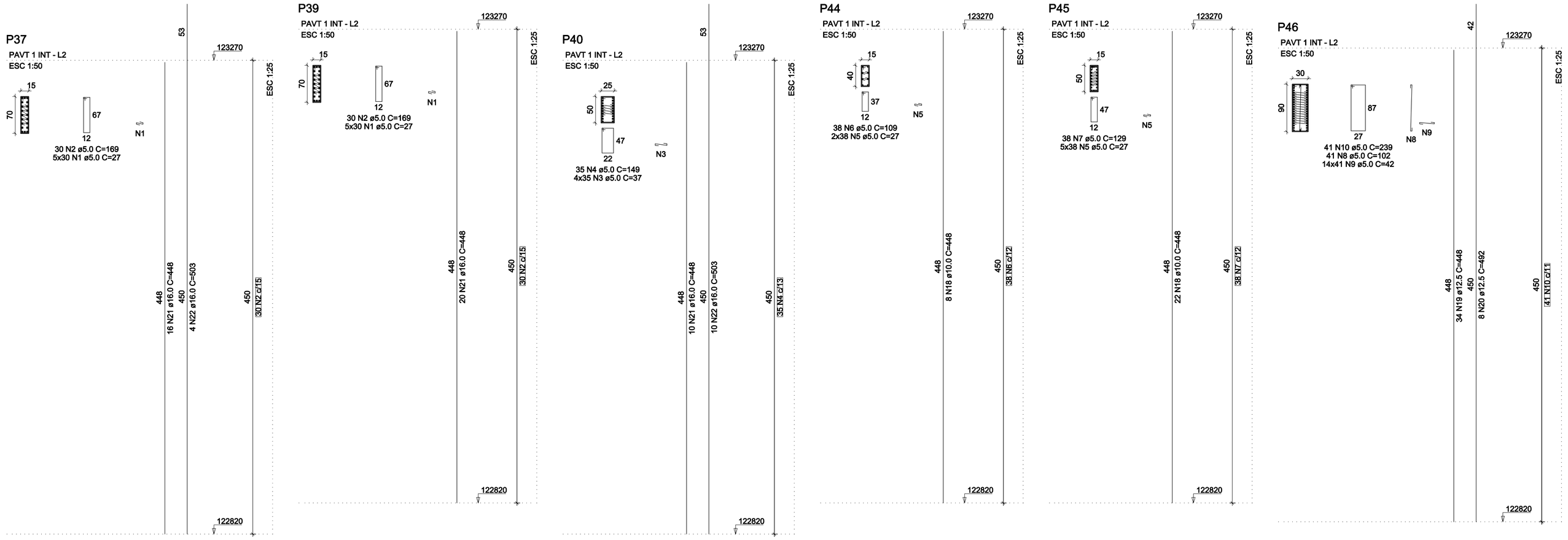
PRANCHA: 23/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90



RELAÇÃO DO AÇO

P37 P39 P40
P44 P45 P46
P47 P48 P55
P56 P57 P58

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	300	27	8100
	2	5.0	60	169	10140
	3	5.0	315	37	11655
	4	5.0	140	149	20860
	5	5.0	266	27	7182
	6	5.0	38	109	4142
	7	5.0	38	129	4902
	8	5.0	41	102	4182
	9	5.0	574	42	24108
	10	5.0	41	239	9799
	11	5.0	190	37	7030
	12	5.0	38	189	7182
	13	5.0	240	27	6480
	14	5.0	30	149	4470
	15	5.0	245	37	9065
	16	5.0	164	42	6888
	17	5.0	41	139	5699
CA50	18	10.0	74	448	33152
	19	12.5	64	448	28672
	20	12.5	36	492	17712
	21	16.0	56	448	25088
	22	16.0	42	503	21126

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	331.5	28	12 m	204.4
	12.5	463.8	39	12 m	446.8
	16.0	462.1	39	12 m	729.4
CA60	5.0	1518.8	127	12 m	234.1

PESO TOTAL (kg)	
CA50	1380.6
CA60	234.1

Volume de concreto (C-30) = 6.75 m³
Área de forma = 85.50 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG - 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 04–07

PRANCHA: 24/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

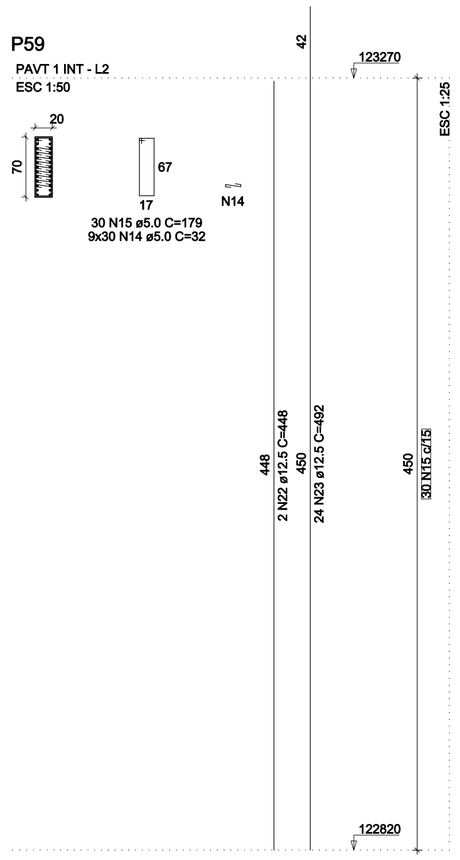
USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90

P59

PAVT 1 INT - L2
ESC 1:50

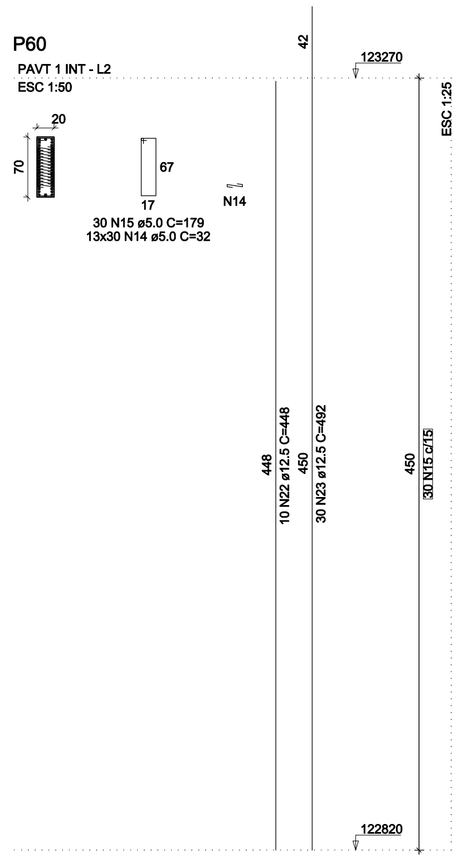
30 N15 ø5.0 C=179
9x30 N14 ø5.0 C=32



P60

PAVT 1 INT - L2
ESC 1:50

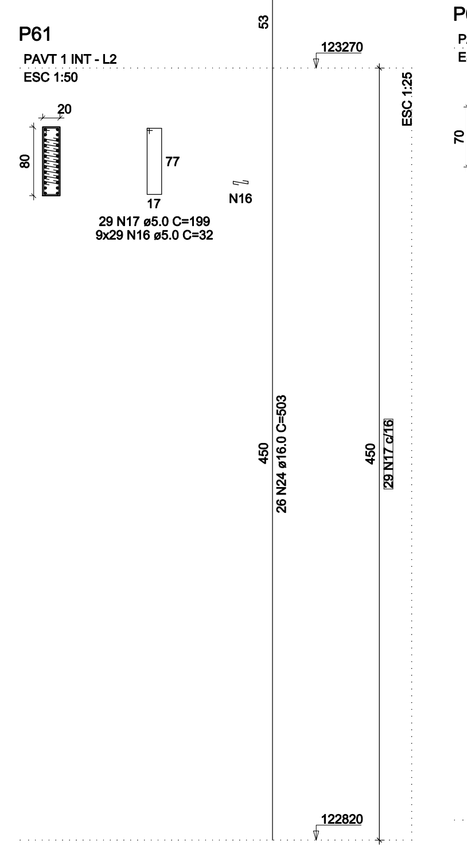
30 N15 ø5.0 C=179
13x30 N14 ø5.0 C=32



P61

PAVT 1 INT - L2
ESC 1:50

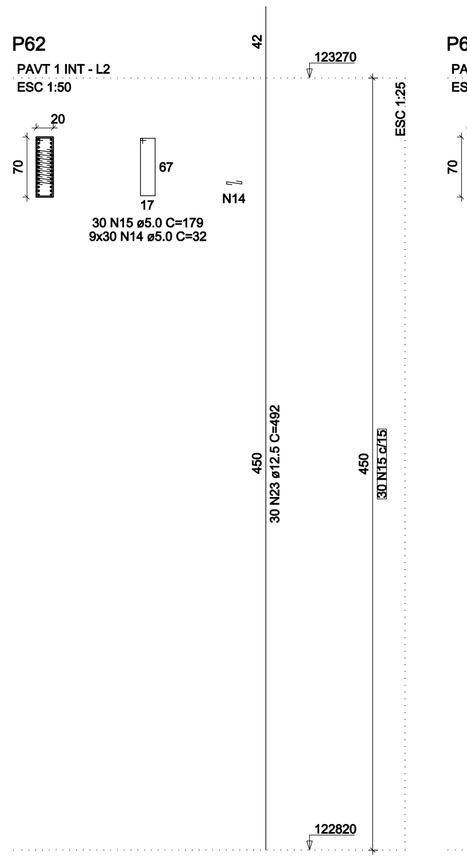
29 N17 ø5.0 C=199
9x29 N16 ø5.0 C=32



P62

PAVT 1 INT - L2
ESC 1:50

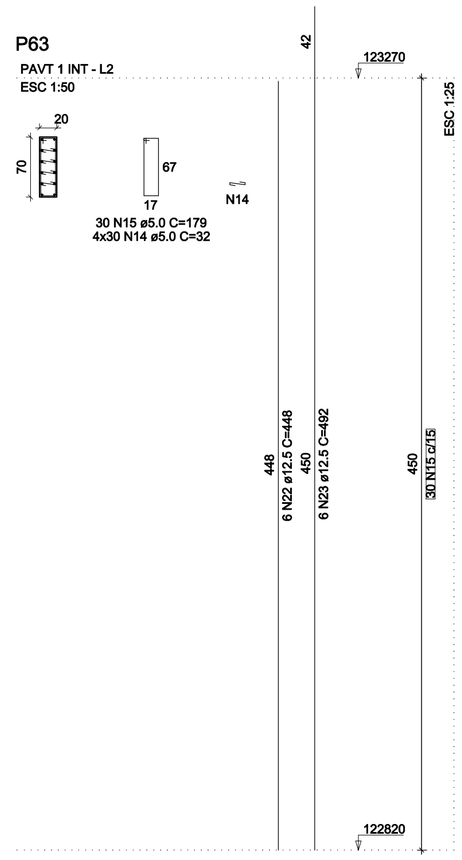
30 N15 ø5.0 C=179
9x30 N14 ø5.0 C=32



P63

PAVT 1 INT - L2
ESC 1:50

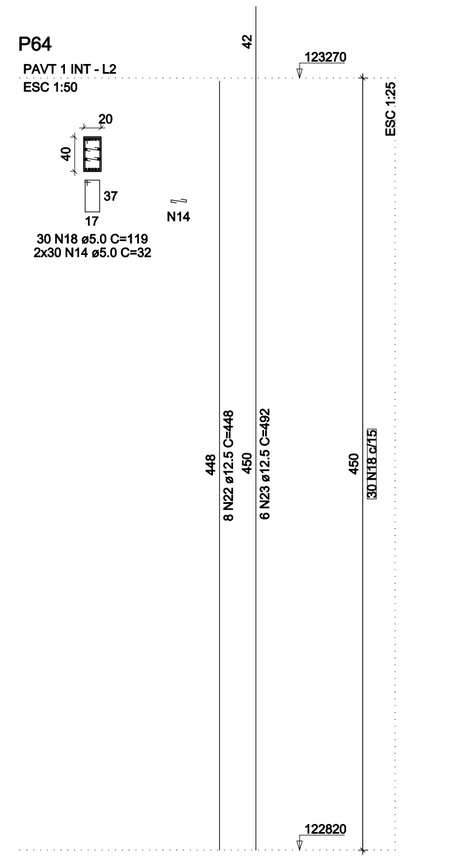
30 N15 ø5.0 C=179
4x30 N14 ø5.0 C=32



P64

PAVT 1 INT - L2
ESC 1:50

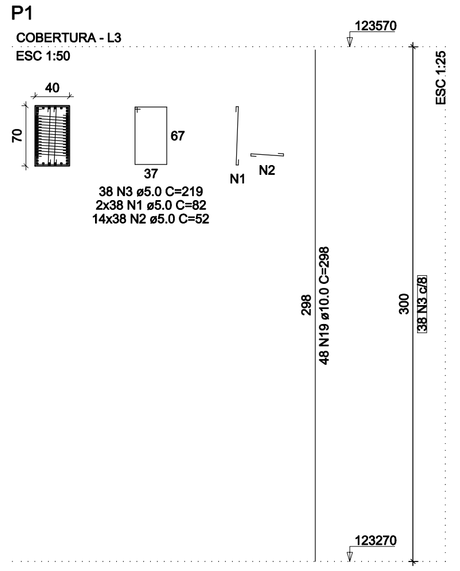
30 N18 ø5.0 C=119
2x30 N14 ø5.0 C=32



P1

COBERTURA - L3
ESC 1:50

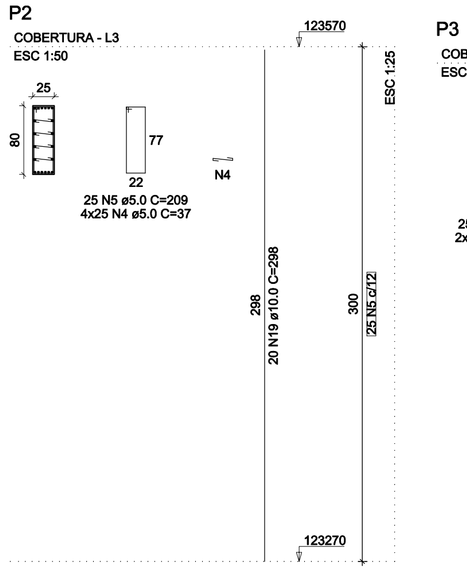
38 N3 ø5.0 C=219
2x38 N1 ø5.0 C=82
14x38 N2 ø5.0 C=52



P2

COBERTURA - L3
ESC 1:50

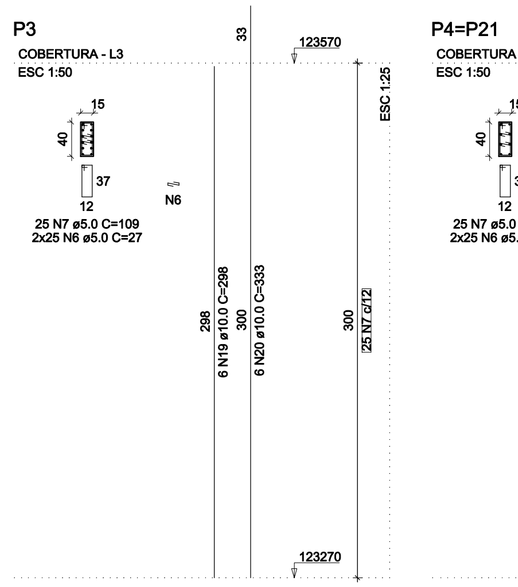
25 N5 ø5.0 C=209
4x25 N4 ø5.0 C=37



P3

COBERTURA - L3
ESC 1:50

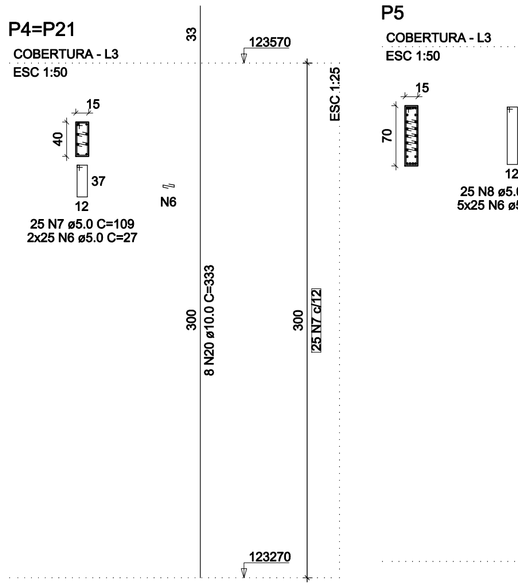
25 N7 ø5.0 C=109
2x25 N6 ø5.0 C=27



P4=P21

COBERTURA - L3
ESC 1:50

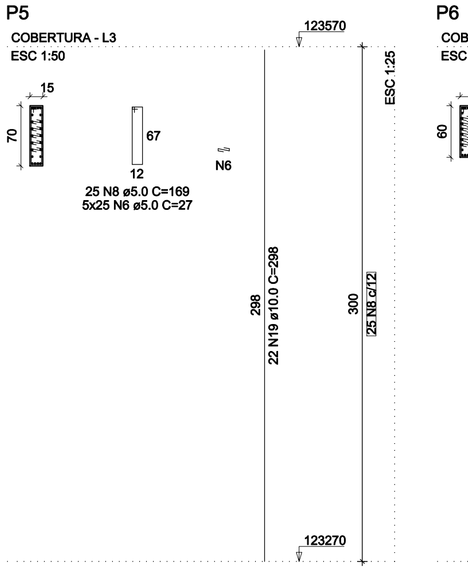
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2x25 N6 ø5.0 C=27



P5

COBERTURA - L3
ESC 1:50

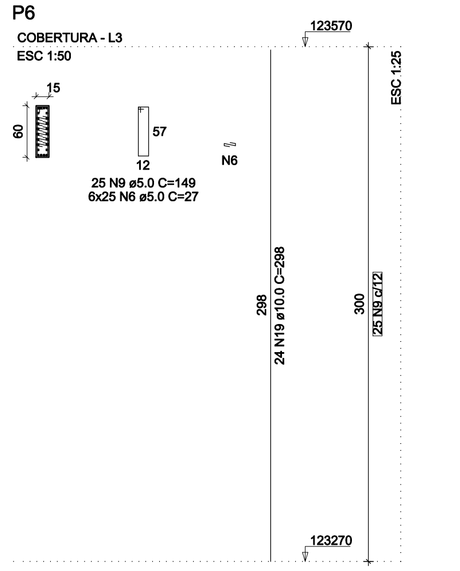
25 N8 ø5.0 C=169
5x25 N6 ø5.0 C=27



P6

COBERTURA - L3
ESC 1:50

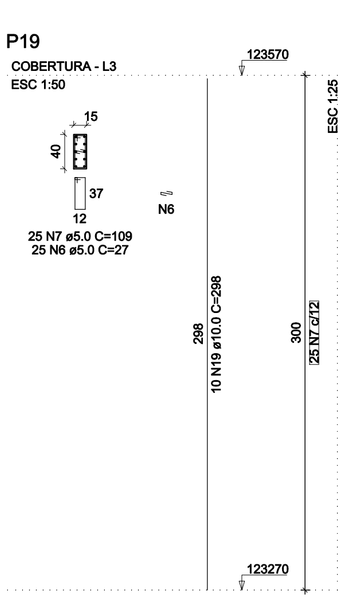
25 N9 ø5.0 C=149
6x25 N6 ø5.0 C=27



P19

COBERTURA - L3
ESC 1:50

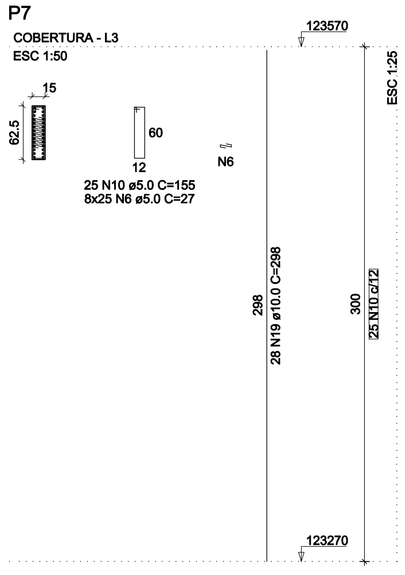
25 N7 ø5.0 C=109
25 N6 ø5.0 C=27



P7

COBERTURA - L3
ESC 1:50

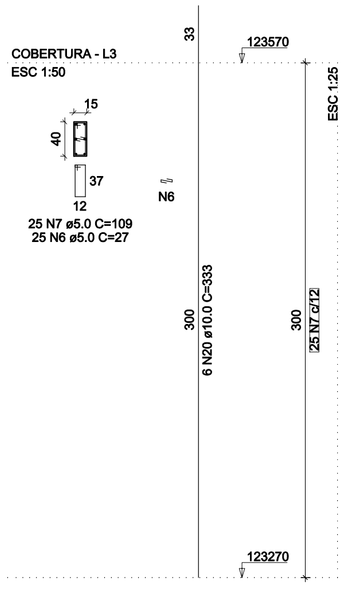
25 N10 ø5.0 C=155
8x25 N6 ø5.0 C=27



P9=P20=P35

COBERTURA - L3
ESC 1:50

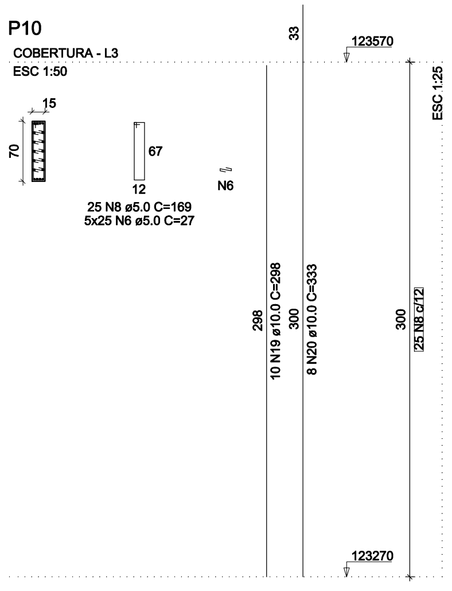
25 N7 ø5.0 C=109
25 N6 ø5.0 C=27



P10

COBERTURA - L3
ESC 1:50

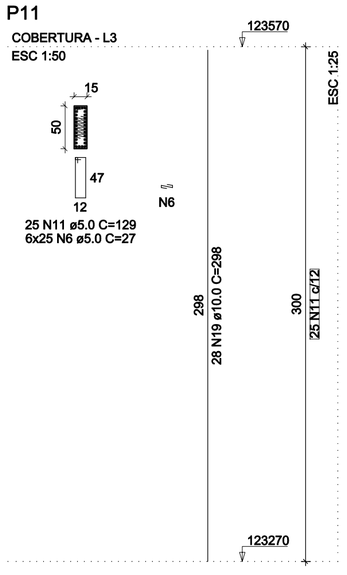
25 N8 ø5.0 C=169
5x25 N6 ø5.0 C=27



P11

COBERTURA - L3
ESC 1:50

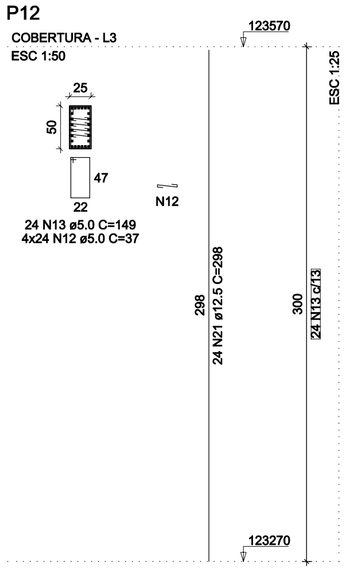
25 N11 ø5.0 C=129
6x25 N6 ø5.0 C=27



P12

COBERTURA - L3
ESC 1:50

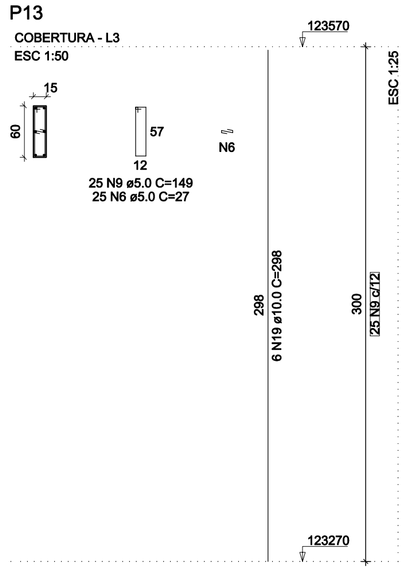
24 N13 ø5.0 C=149
4x24 N12 ø5.0 C=37



P13

COBERTURA - L3
ESC 1:50

25 N9 ø5.0 C=149
25 N6 ø5.0 C=27



RELAÇÃO DO AÇO

P1-L3	P2-L3	P3-L3
2xP4-L3	P5-L3	P6-L3
P7-L3	3xP9-L3	P10-L3
P11-L3	P12-L3	P13-L3
P19-L3	P59-L2	P60-L2
P61-L2	P62-L2	P63-L2
P64-L2		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	76	82	6232
	2	5.0	532	52	27664
	3	5.0	38	219	8322
	4	5.0	100	37	3700
	5	5.0	25	209	5225
	6	5.0	1025	27	27675
	7	5.0	175	109	19075
	8	5.0	50	169	8450
	9	5.0	50	149	7450
	10	5.0	25	155	3875
	11	5.0	25	129	3225
	12	5.0	96	37	3552
	13	5.0	24	149	3576
	14	5.0	1110	32	35520
	15	5.0	120	179	21480
	16	5.0	261	32	8352
	17	5.0	29	199	5771
	18	5.0	30	119	3570
CA50	19	10.0	202	298	60196
	20	10.0	48	333	15984
	21	12.5	24	298	7152
	22	12.5	26	448	11648
	23	12.5	96	492	47232
	24	16.0	26	503	13078

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	761.8	64	12 m	469.7
	12.5	660.3	56	12 m	636.1
	16.0	130.8	11	12 m	206.4
CA60	5.0	2027.1	169	12 m	312.5

PESO TOTAL (kg)	
CA50	1312.2
CA60	312.5

Volume de concreto (C-30) = 8.35 m³
Área de forma = 115.05 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº379, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 05–07

PRANCHA: 25/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

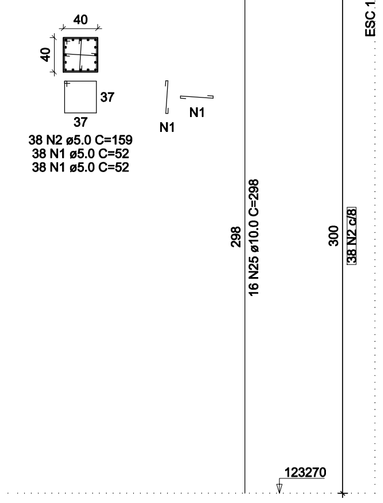
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JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90

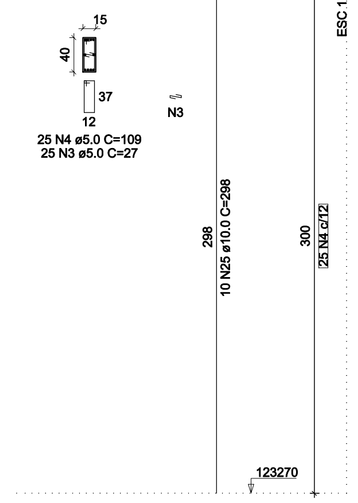
P22

COBERTURA - L3
ESC 1:50



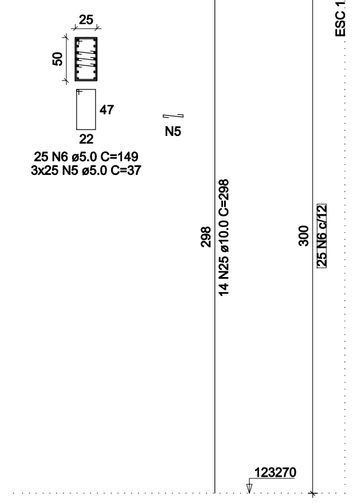
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COBERTURA - L3
ESC 1:50



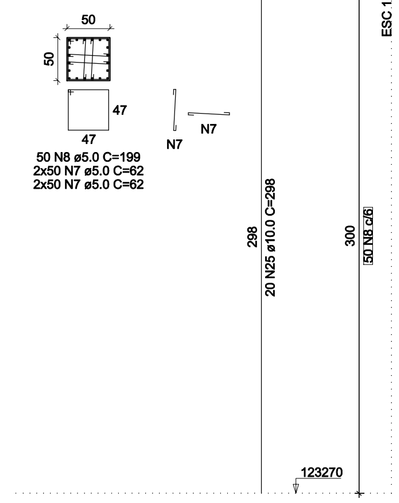
P25

COBERTURA - L3
ESC 1:50



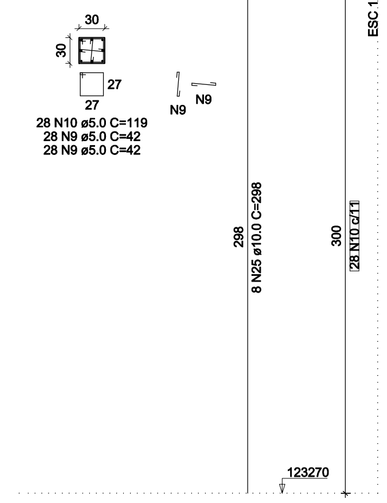
P26

COBERTURA - L3
ESC 1:50



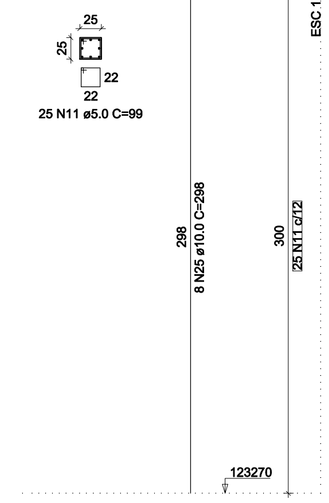
P27

COBERTURA - L3
ESC 1:50



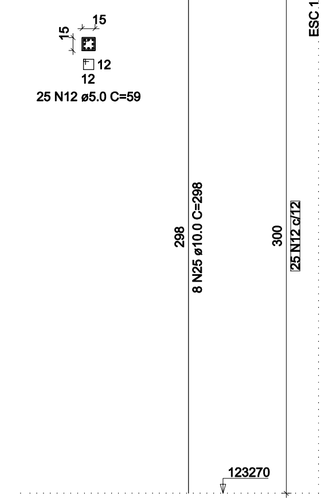
P28

COBERTURA - L3
ESC 1:50



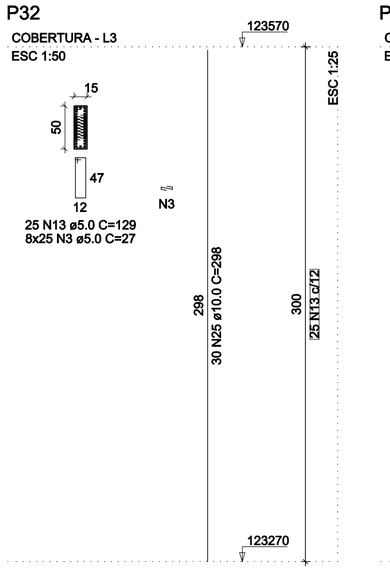
P30

COBERTURA - L3
ESC 1:50



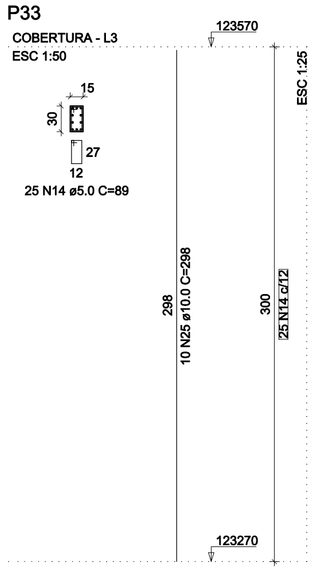
P32

COBERTURA - L3
ESC 1:50



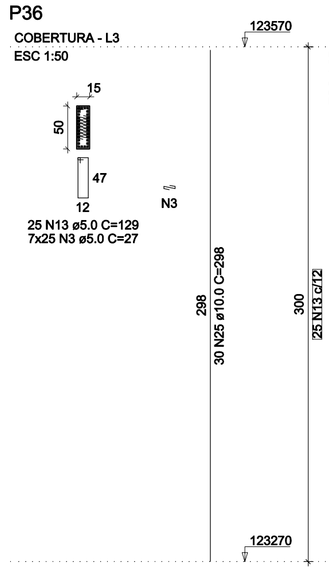
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COBERTURA - L3
ESC 1:50



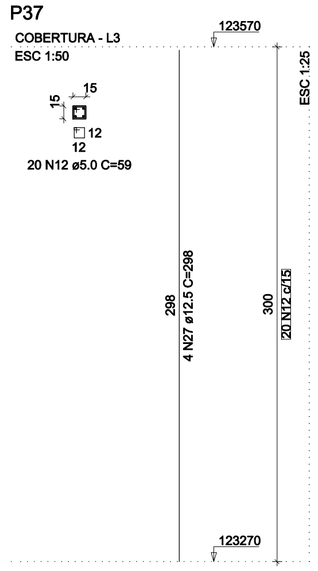
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COBERTURA - L3
ESC 1:50



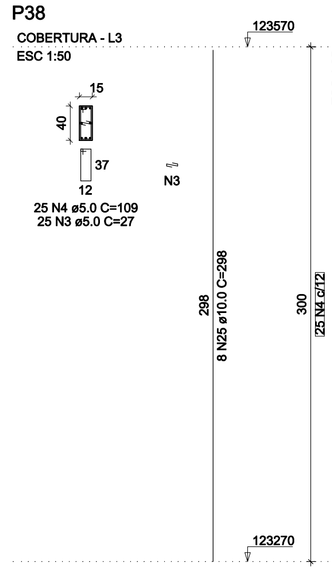
P37

COBERTURA - L3
ESC 1:50



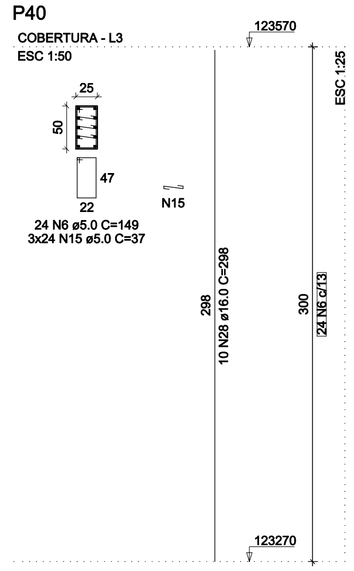
P38

COBERTURA - L3
ESC 1:50



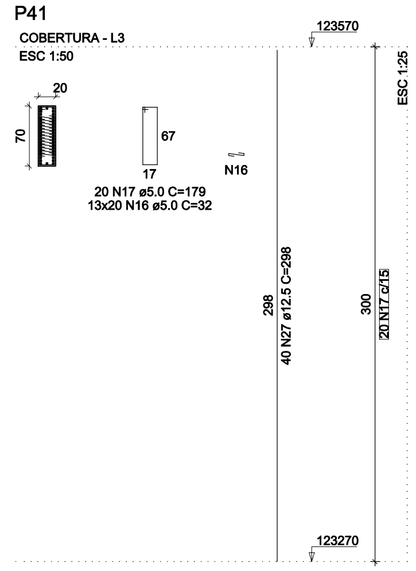
P40

COBERTURA - L3
ESC 1:50



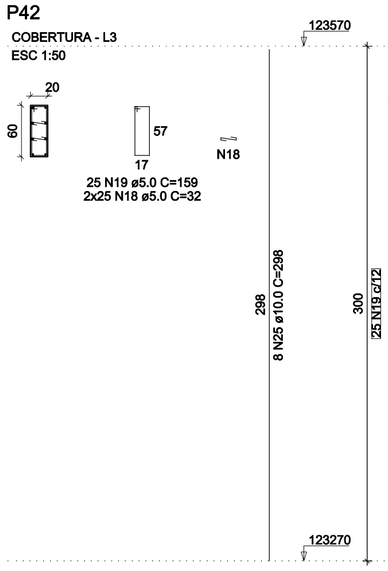
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COBERTURA - L3
ESC 1:50



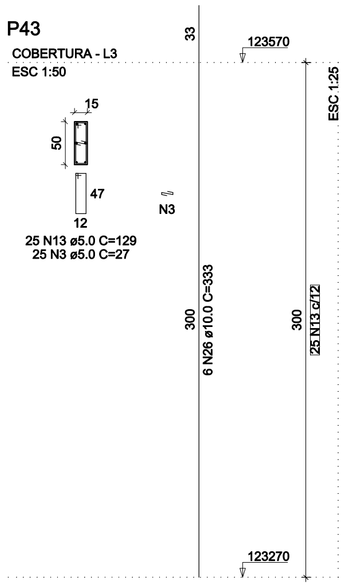
P42

COBERTURA - L3
ESC 1:50



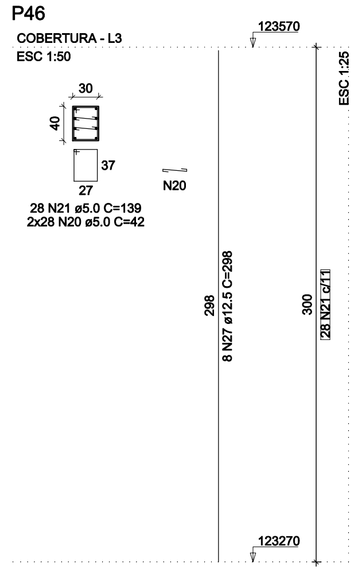
P43

COBERTURA - L3
ESC 1:50



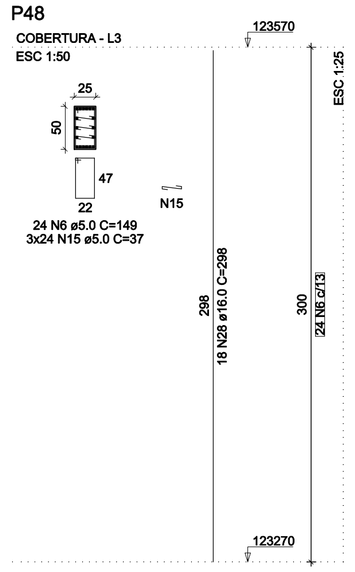
P46

COBERTURA - L3
ESC 1:50



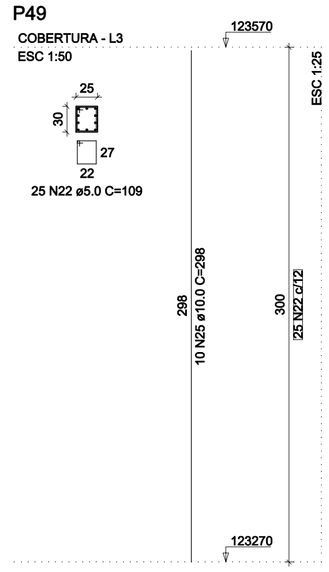
P48

COBERTURA - L3
ESC 1:50



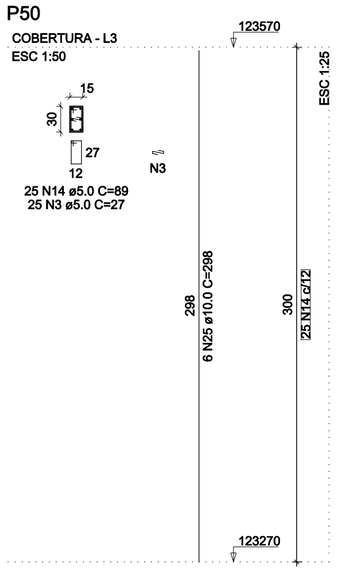
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COBERTURA - L3
ESC 1:50



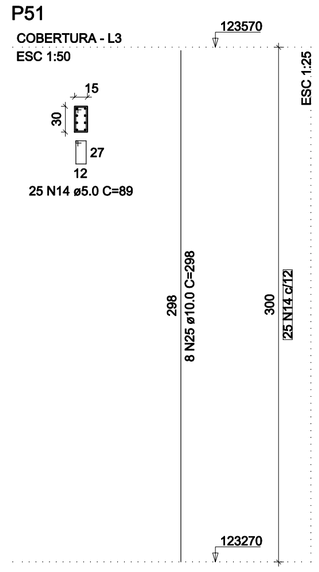
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COBERTURA - L3
ESC 1:50



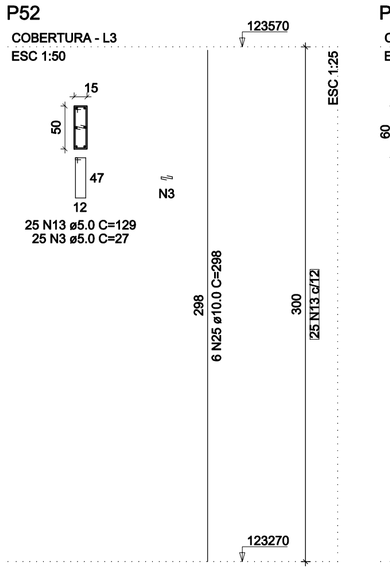
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COBERTURA - L3
ESC 1:50



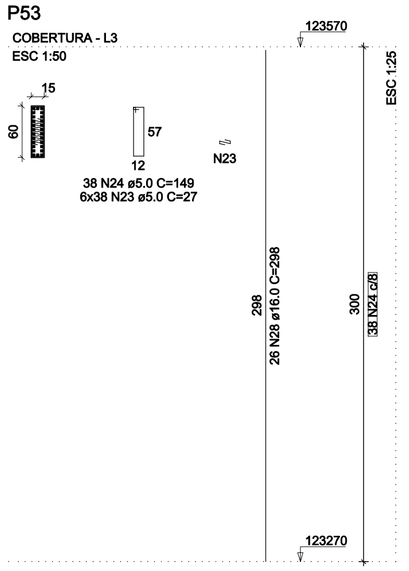
P52

COBERTURA - L3
ESC 1:50



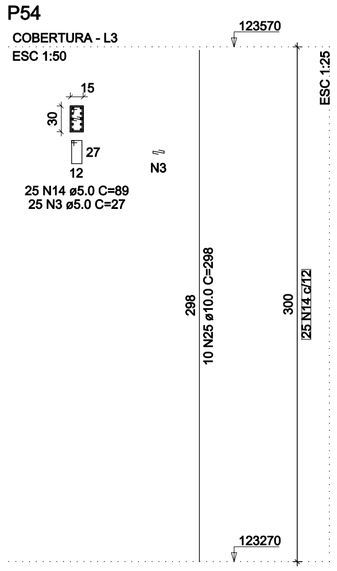
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COBERTURA - L3
ESC 1:50



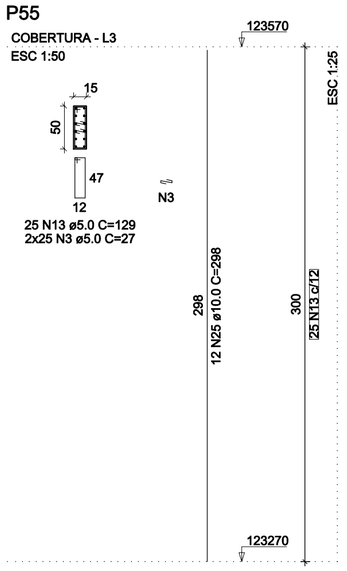
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COBERTURA - L3
ESC 1:50



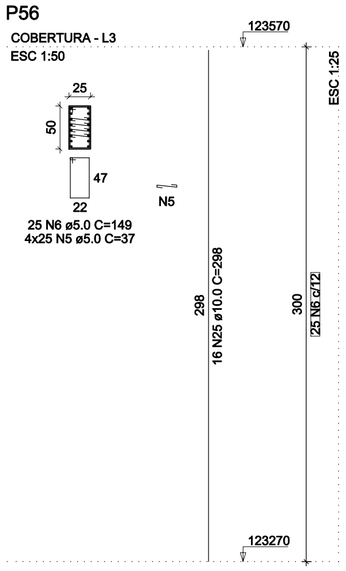
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COBERTURA - L3
ESC 1:50



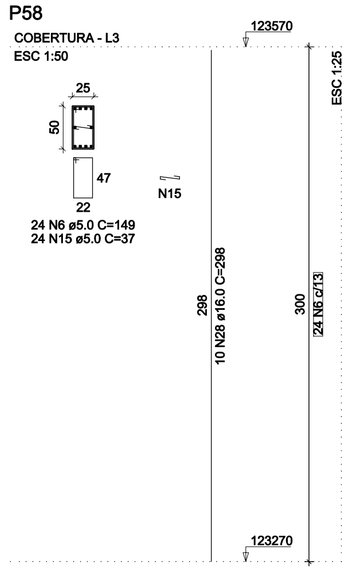
P56

COBERTURA - L3
ESC 1:50



P58

COBERTURA - L3
ESC 1:50



RELAÇÃO DO AÇO

P22	P23	P25
P26	P27	P28
P30	P32	P33
P36	P37	P38
P40	P41	P42
P43	P46	P48
P49	P50	P51
P52	P53	P54
P55	P56	P58

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	76	52	3952
	2	5.0	38	159	6042
	3	5.0	575	27	15525
	4	5.0	50	109	5450
	5	5.0	175	37	6475
	6	5.0	122	149	18178
	7	5.0	200	62	12400
	8	5.0	50	199	9950
	9	5.0	56	42	2352
	10	5.0	28	119	3332
	11	5.0	25	99	2475
	12	5.0	45	59	2655
	13	5.0	125	129	16125
	14	5.0	100	89	8900
	15	5.0	168	37	6216
	16	5.0	260	32	8320
	17	5.0	20	179	3580
	18	5.0	50	32	1600
	19	5.0	25	159	3975
	20	5.0	56	42	2352
	21	5.0	28	139	3892
	22	5.0	25	109	2725
	23	5.0	228	27	6156
	24	5.0	38	149	5662
CA50	25	10.0	238	298	70924
	26	10.0	6	333	1998
	27	12.5	52	298	15496
	28	16.0	64	298	19072

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	729.2	61	12 m	449.6
	12.5	155	13	12 m	149.3
	16.0	190.7	16	12 m	301
CA60	5.0	1582.9	132	12 m	244

PESO TOTAL (kg)	
CA50	899.9
CA60	244

Volume de concreto (C-30) = 7.36 m³
Área de forma = 102.60 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

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Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 06–07

PRANCHA: 26/27

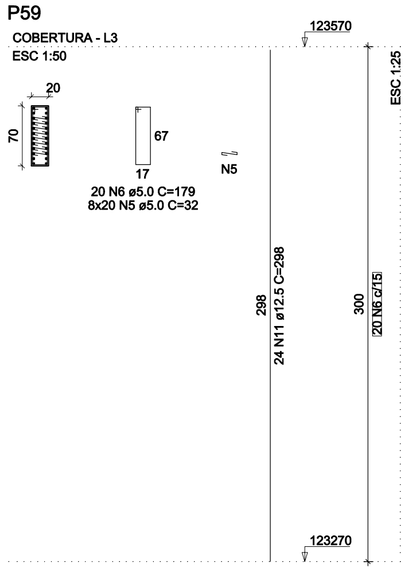
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

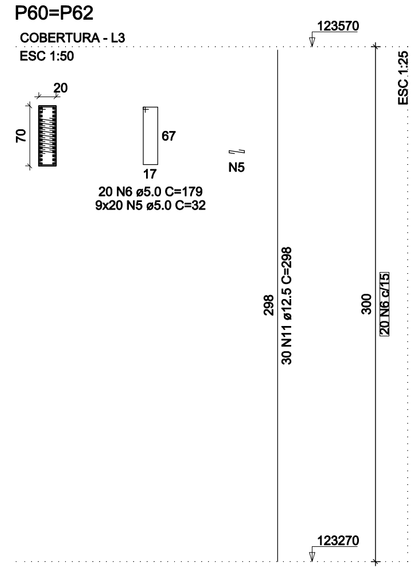
USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001-90

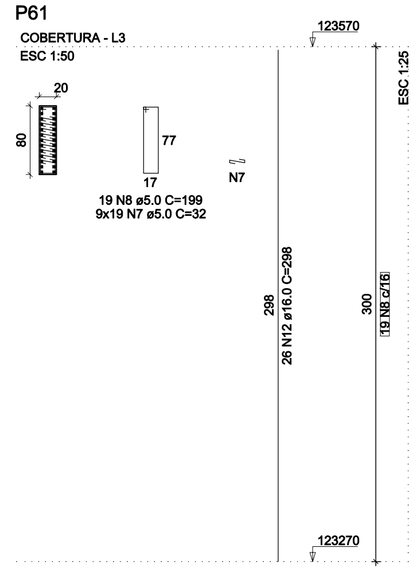
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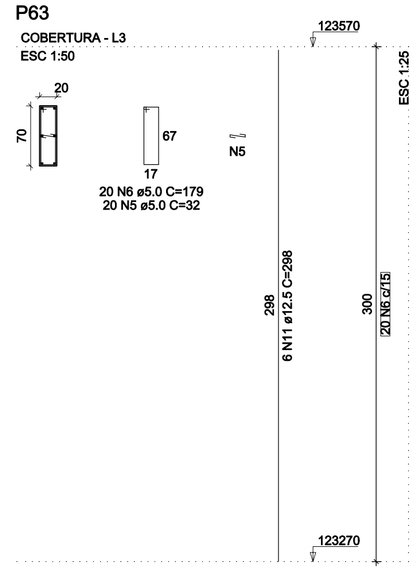
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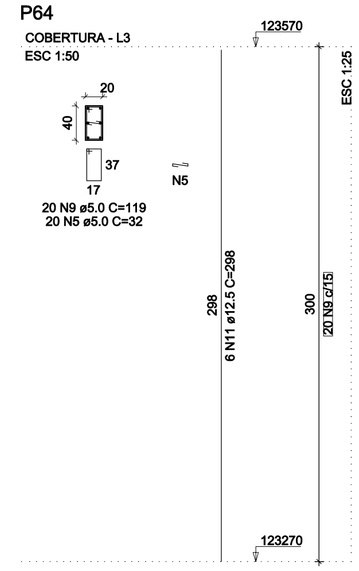
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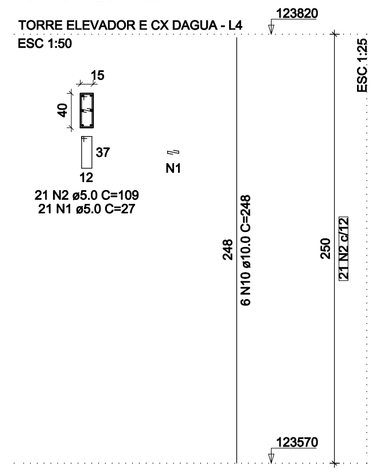
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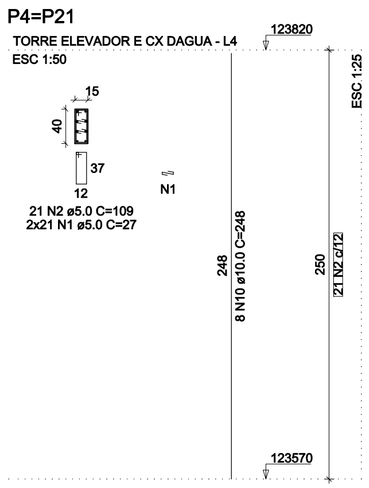
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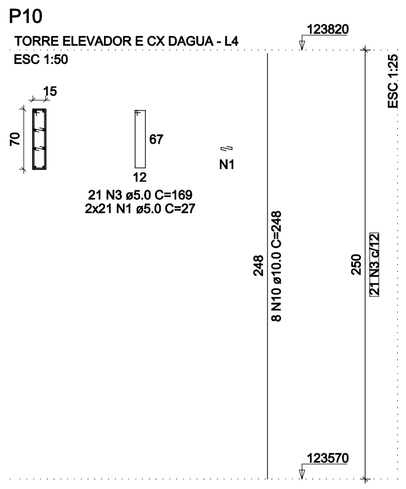
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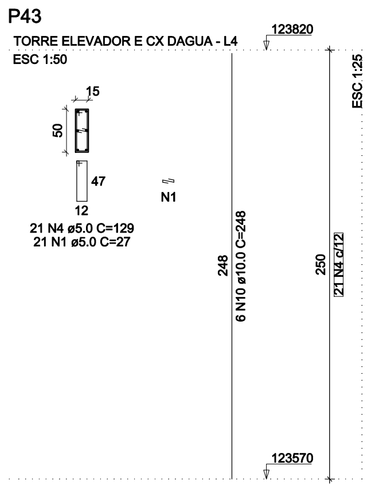
P4=P21



P10



P43



RELAÇÃO DO AÇO

4xP3-L4
P43-L4
P61-L3

2xP4-L4
P59-L3
P63-L3

P10-L4
2xP60-L3
P64-L3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	231	27	6237
	2	5.0	126	109	13734
	3	5.0	21	169	3549
	4	5.0	21	129	2709
	5	5.0	560	32	17920
	6	5.0	80	179	14320
	7	5.0	171	32	5472
	8	5.0	19	199	3781
	9	5.0	20	119	2380
CA50	10	10.0	54	248	13392
	11	12.5	96	298	28608
	12	16.0	26	298	7748

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	10.0	133.9	12	12 m	82.6
	12.5	286.1	24	12 m	275.6
	16.0	77.5	7	12 m	122.3
CA60	5.0	701	59	12 m	108.1

PESO TOTAL (kg)	
CA50	480.4
CA60	108.1

Volume de concreto (C-30) = 3.75 m³
Área de forma = 55.20 m²

PROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

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RESPONSÁVEL TÉCNICO:

A. MACEDO PROJETOS & ENGENHARIA
CNPJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº739, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRANCHA
• Pilares 07–07

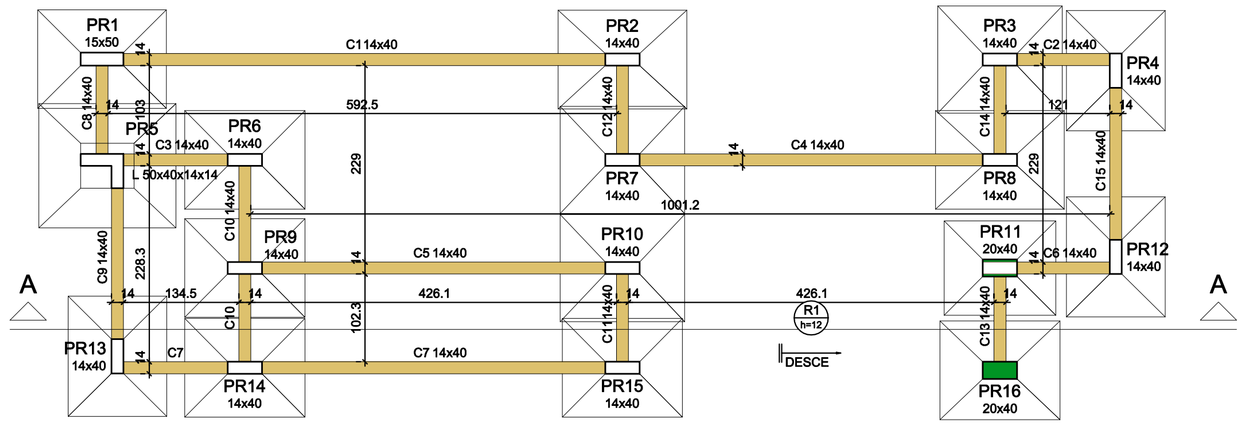
PRANCHA:
27/27

ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRIETÁRIO:
CÂMARA MUNICIPAL DE JEQUITIBÁ
CNPJ:21.607.569/0001–90



Forma do Térreo rampa (Nível 123224)
escala 1:50

Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

PRilares

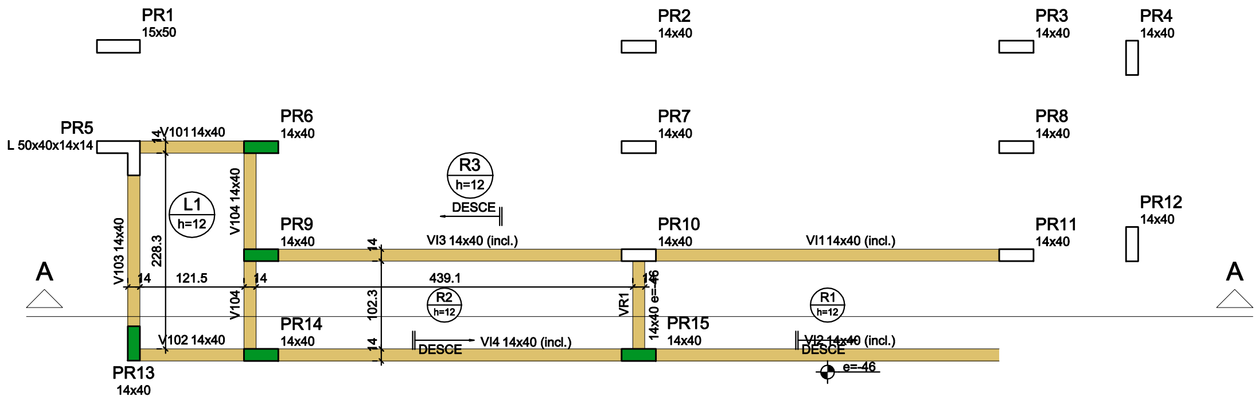
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
PR1	15 x 50	0	123224
PR2	14 x 40	0	123224
PR3	14 x 40	0	123224
PR4	14 x 40	0	123224
PR5	L 50x40x14x14	0	123224
PR6	14 x 40	0	123224
PR7	14 x 40	0	123224
PR8	14 x 40	0	123224
PR9	14 x 40	0	123224
PR10	14 x 40	0	123224
PR11	20 x 40	0	123224
PR12	14 x 40	0	123224
PR13	14 x 40	0	123224
PR14	14 x 40	0	123224
PR15	14 x 40	0	123224
PR16	20 x 40	0	123224

Legenda dos PRilares

- PRilar que morre
- PRilar que PRassa
- PRilar com mudança de seção

Legenda das vigas e PRaredes

- Viga



Forma da rampa patamar 1 (Nível 123316)
escala 1:50

Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

PRilares

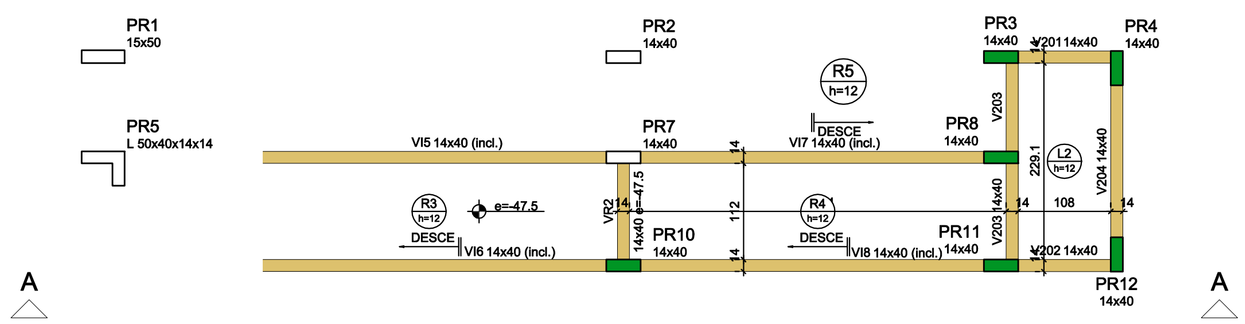
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
PR1	15 x 50	0	123316
PR2	14 x 40	0	123316
PR3	14 x 40	0	123316
PR4	14 x 40	0	123316
PR5	L 50x40x14x14	0	123316
PR6	14 x 40	0	123316
PR7	14 x 40	0	123316
PR8	14 x 40	0	123316
PR9	14 x 40	0	123316
PR10	14 x 40	0	123316
PR11	14 x 40	0	123316
PR12	14 x 40	0	123316
PR13	14 x 40	0	123316
PR14	14 x 40	0	123316
PR15	14 x 40	-46	123270

Legenda dos PRilares

- PRilar que morre
- PRilar que PRassa

Legenda das vigas e PRaredes

- Viga
- Viga inclinada



Forma da rampa patamar 2 (Nível 123411)
escala 1:50

Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)
250	241500

PRilares

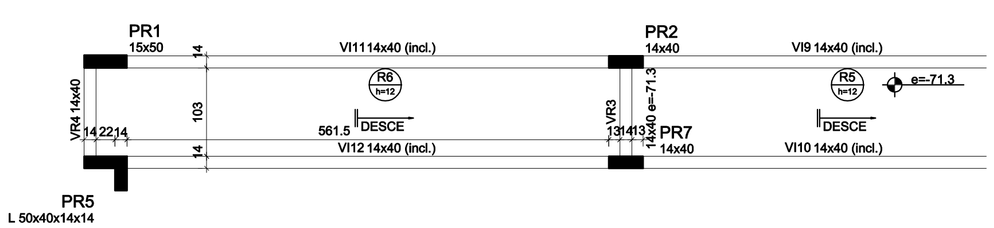
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
PR1	15 x 50	0	123411
PR2	14 x 40	0	123411
PR3	14 x 40	0	123411
PR4	14 x 40	0	123411
PR5	L 50x40x14x14	0	123411
PR7	14 x 40	0	123411
PR8	14 x 40	0	123411
PR10	14 x 40	-47.5	123363.5
PR11	14 x 40	0	123411
PR12	14 x 40	0	123411

Legenda dos PRilares

- PRilar que morre
- PRilar que PRassa

Legenda das vigas e PRaredes

- Viga
- Viga inclinada



Forma da rampa 2 pavto
escala 1:50

Características dos materiais

fck (kgf/cm²)	Ecs (kgf/cm²)
250	238000

PRilares

Nome	Seção (cm)	Elevação (cm)	Nível (cm)
PR1	15 x 50	0	123074
PR2	14 x 40	-71.3	123002.7
PR5	L 50x40x14x14	0	123074
PR7	14 x 40	-71.3	123002.7

Legenda dos PRilares

- PRilar que morre
- PRilar que PRassa
- PRilar que nasce
- PRilar com mudança de seção

PRROJETO ESTRUTURAL

RESPRONSÁVEL TÉCNICO:

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www.amacedoengenharia.com.br

RESPRONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA

- Forma do Térreo rampa (Nível 123224)
- Forma da rampa patamar 1 (Nível 123316)
- Forma da rampa patamar 2 (Nível 123411)
- Forma da rampa 2 pavto

PRRANCHA: 01/04

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

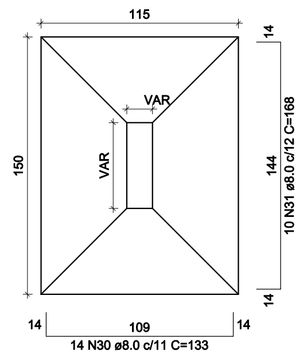
CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

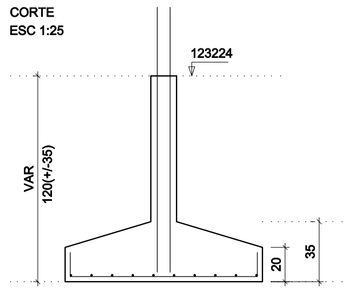
PROPRRIETÁRIO: CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90

S1=S2=S8

PRLANTA
ESC 1:25



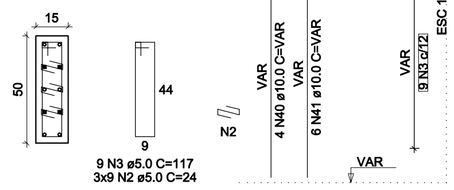
CORTE
ESC 1:25



Solo com caPRacidade de suPRorte > 1.50 kgf/cm²
Solo comPRactado sobre a saPRata
PReso esPRecífico > 1600.00 kgf/m³

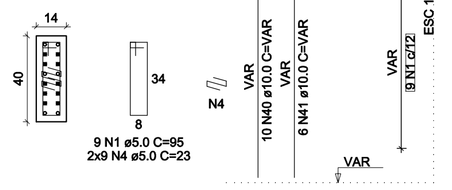
PR1

TÉRREO - L1
ESC 1:20



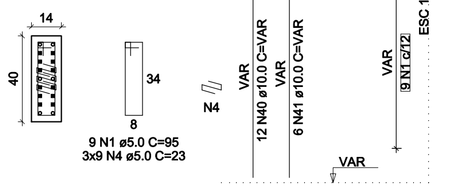
PR2

TÉRREO - L1
ESC 1:20



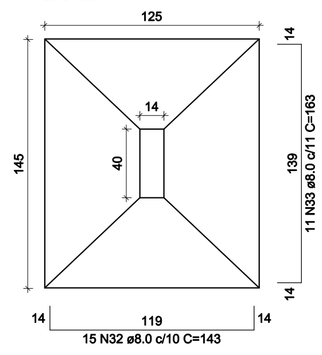
PR8

TÉRREO - L1
ESC 1:20

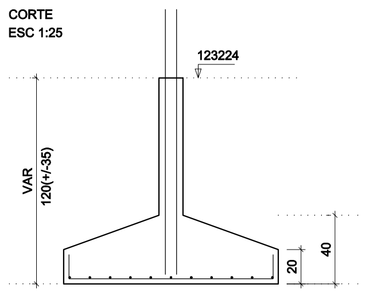


S3=S7=S10

PRLANTA
ESC 1:25



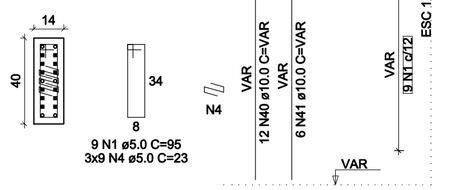
CORTE
ESC 1:25



Solo com caPRacidade de suPRorte > 1.50 kgf/cm²
Solo comPRactado sobre a saPRata
PReso esPRecífico > 1600.00 kgf/m³

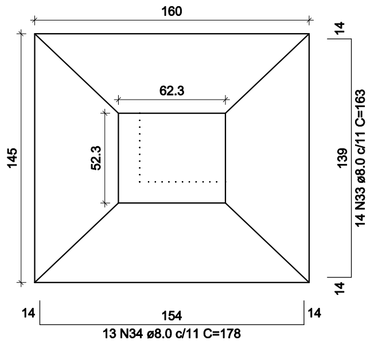
PR3=PR7=PR10

TÉRREO - L1
ESC 1:20

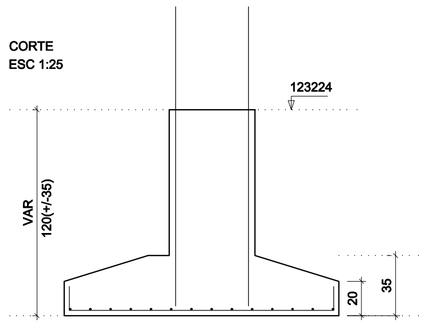


S5

PRLANTA
ESC 1:25



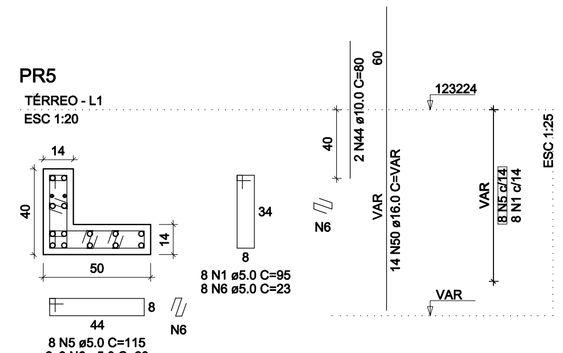
CORTE
ESC 1:25



Solo com caPRacidade de suPRorte > 1.50 kgf/cm²
Solo comPRactado sobre a saPRata
PReso esPRecífico > 1600.00 kgf/m³

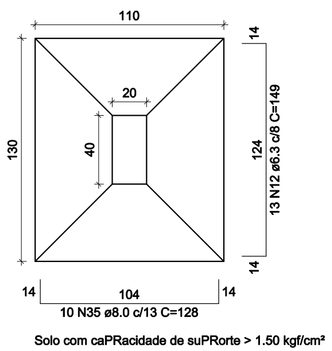
PR5

TÉRREO - L1
ESC 1:20

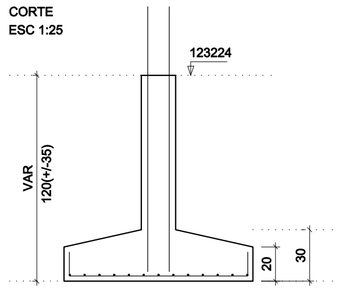


S11

PRLANTA
ESC 1:25



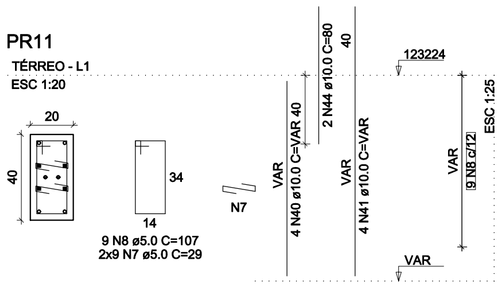
CORTE
ESC 1:25



Solo com caPRacidade de suPRorte > 1.50 kgf/cm²
Solo comPRactado sobre a saPRata
PReso esPRecífico > 1600.00 kgf/m³

PR11

TÉRREO - L1
ESC 1:20



RELAÇÃO DO AÇO

C1-L1	C2-L1	C3-L1
C4-L1	C5-L1	C6-L1
C7-L1	C8-L1	C9-L1
C10-L1	C11-L1	C12-L1
C13-L1	C14-L1	C15-L1
PR1-L1	PR2-L1	3xPR3-L1
PR5-L2	PR5-L1	4xPR6-L2
PR8-L1	PR11-L1	PR15-L2
3xS1-L1	3xS3-L1	S5-L1
S11-L1		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	263	95	24985
	2	5.0	27	24	648
	3	5.0	9	117	1053
	4	5.0	178	23	4094
	5	5.0	16	115	1840
	6	5.0	24	23	552
	7	5.0	18	29	522
	8	5.0	9	107	963
	9	6.3	19	73	1387
	10	6.3	1	85	85
	11	6.3	2	125	250
	12	6.3	13	149	1937
	13	8.0	4	646	2584
	14	8.0	4	164	656
	15	8.0	4	179	716
	16	8.0	4	205	820
	17	8.0	8	474	3792
	18	8.0	2	618	1236
	19	8.0	2	633	1266
	20	8.0	3	84	252
	21	8.0	7	142	994
	22	8.0	2	266	532
	23	8.0	2	305	610
	24	8.0	3	140	420
	25	8.0	3	174	522
	26	8.0	6	141	846
	27	8.0	3	177	531
	28	8.0	2	149	298
	29	8.0	2	187	374
	30	8.0	42	133	5586
	31	8.0	30	168	5040
	32	8.0	45	143	6435
	33	8.0	47	163	7661
	34	8.0	13	178	2314
	35	8.0	10	128	1280
	36	10.0	1	191	191
	37	10.0	3	187	561
	38	10.0	4	250	1000
	39	10.0	2	194	388
	40	10.0	66	VAR	VAR
	41	10.0	40	VAR	VAR
	42	10.0	30	89	2670
	43	10.0	10	132	1320
	44	10.0	4	80	320
	45	10.0	6	43	258
	46	12.5	1	183	183
	47	12.5	2	272	544
	48	16.0	2	282	564
	49	16.0	2	362	724
	50	16.0	14	VAR	VAR

RESUMO DO AÇO

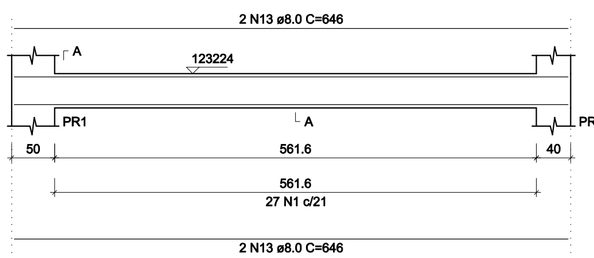
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PRESO + 10% (kg)
CA50	6.3	36.6	4	9.8
	8.0	447.7	42	194.3
	10.0	205.1	19	139.1
	12.5	7.3	1	7.7
	16.0	37.7	4	65.4
CA60	5.0	346.6	32	58.8

PRESO TOTAL (kg)	
CA50	416.3
CA60	58.8

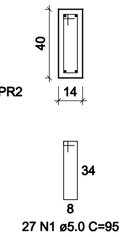
Volume de concreto (C-25) = 7.20 m³
Área de forma = 65.81 m²

C1 (14 x 40)

ESC 1:50

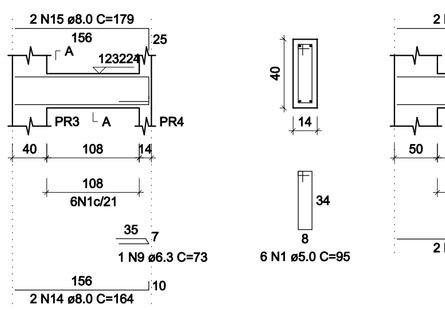


SEÇÃO A-A
ESC 1:25



C2 (14 x 40)

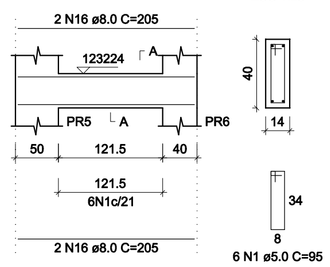
ESC 1:50



SEÇÃO A-A
ESC 1:25

C3 (14 x 40)

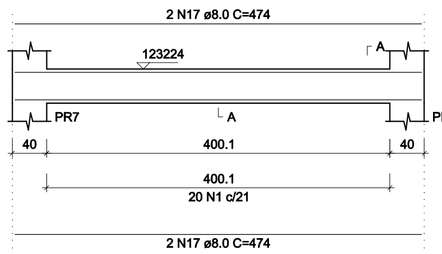
ESC 1:50



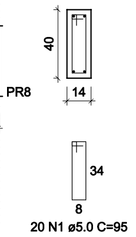
SEÇÃO A-A
ESC 1:25

C4 (14 x 40)

ESC 1:50

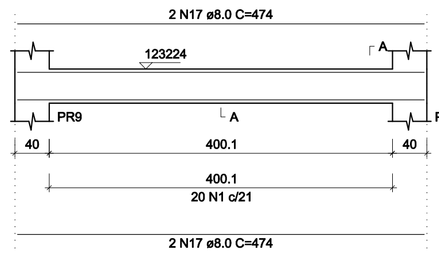


SEÇÃO A-A
ESC 1:25

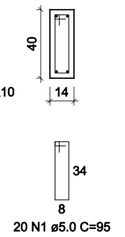


C5 (14 x 40)

ESC 1:50

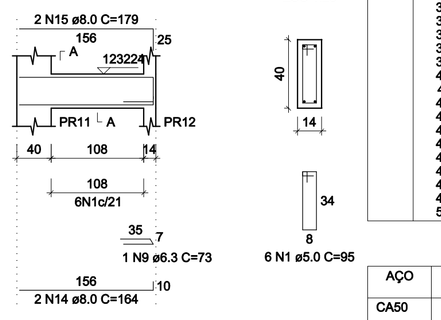


SEÇÃO A-A
ESC 1:25



C6 (14 x 40)

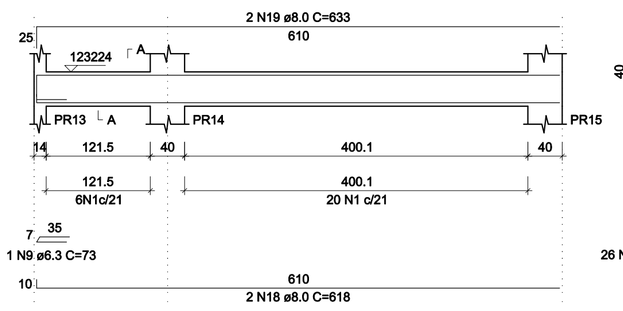
ESC 1:50



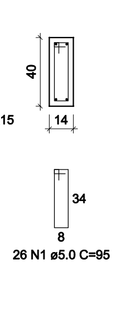
SEÇÃO A-A
ESC 1:25

C7 (14 x 40)

ESC 1:50

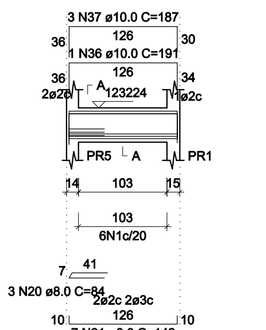


SEÇÃO A-A
ESC 1:25

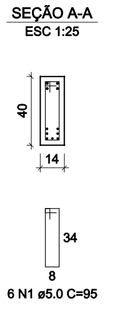


C8 (14 x 40)

ESC 1:50

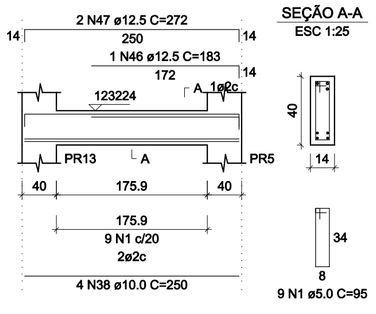


SEÇÃO A-A
ESC 1:25

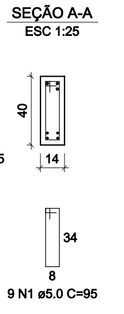


C9 (14 x 40)

ESC 1:50

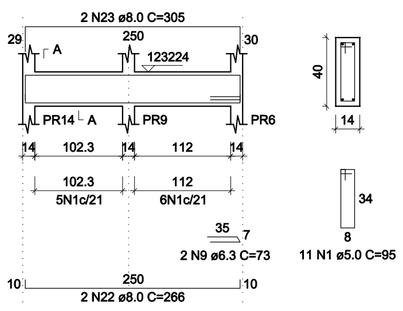


SEÇÃO A-A
ESC 1:25

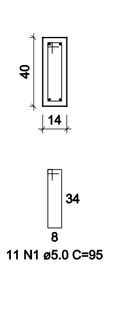


C10 (14 x 40)

ESC 1:50

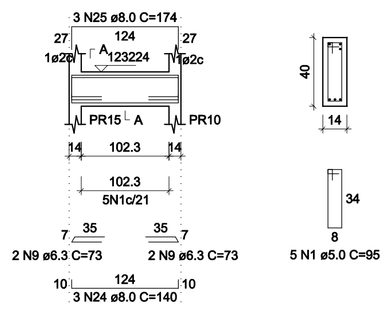


SEÇÃO A-A
ESC 1:25



C11 (14 x 40)

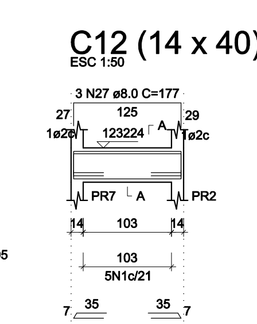
ESC 1:50



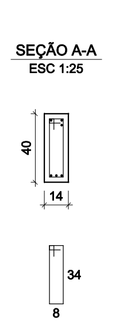
SEÇÃO A-A
ESC 1:25

C12 (14 x 40)

ESC 1:50

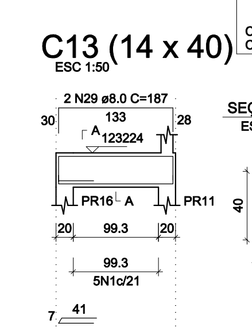


SEÇÃO A-A
ESC 1:25

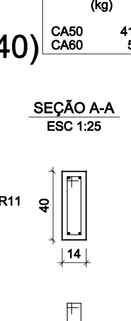


C13 (14 x 40)

ESC 1:50

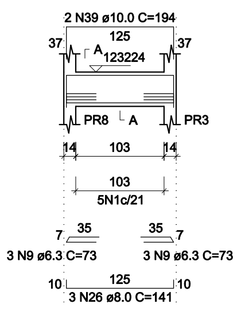


SEÇÃO A-A
ESC 1:25

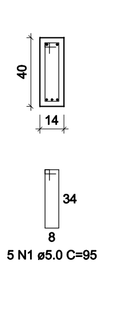


C14 (14 x 40)

ESC 1:50

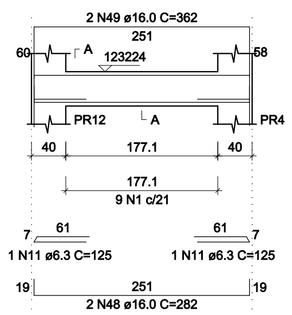


SEÇÃO A-A
ESC 1:25

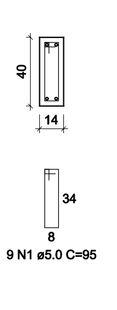


C15 (14 x 40)

ESC 1:50

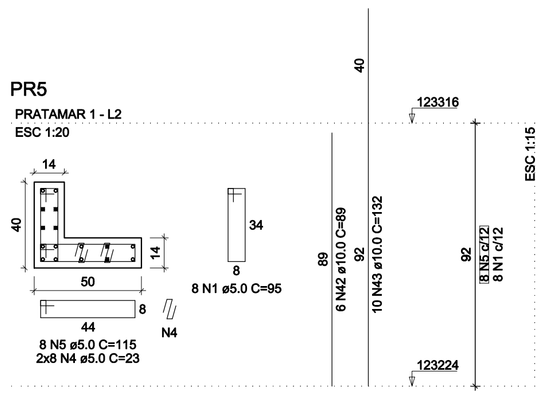


SEÇÃO A-A
ESC 1:25



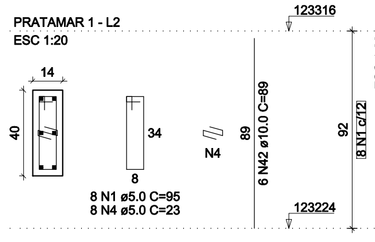
PR5

PRATAMAR 1 - L2
ESC 1:20



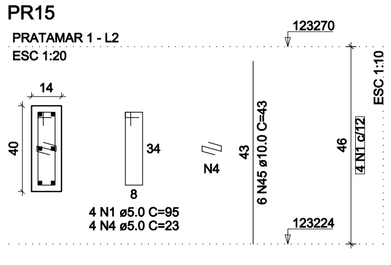
PR6=PR9=PR13=PR14

PRATAMAR 1 - L2
ESC 1:20



PR15

PRATAMAR 1 - L2
ESC 1:20



PRROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

.macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA
- Armação das cintas
- Armação das sapatas
- Armação dos pilares

PRRANCHA: 02/04

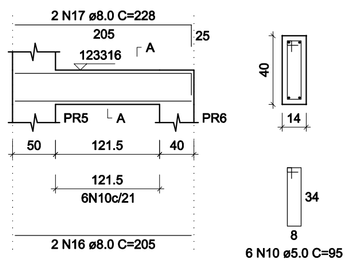
ENDEREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

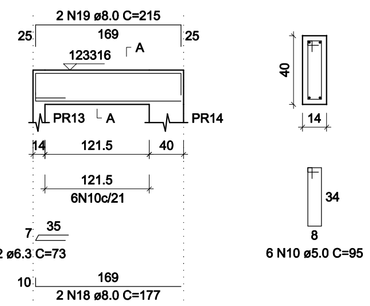
PROPRRIETÁRIO:
CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90

V101 (14 x 40)
ESC 1:50



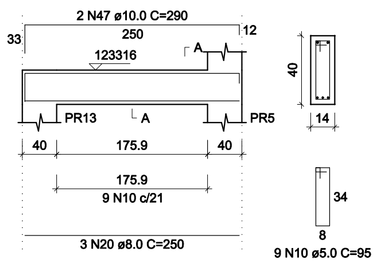
SEÇÃO A-A
ESC 1:25

V102 (14 x 40)
ESC 1:50

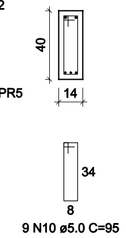


SEÇÃO A-A
ESC 1:25

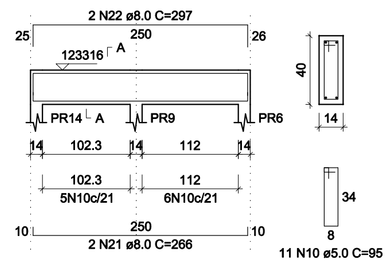
V103 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

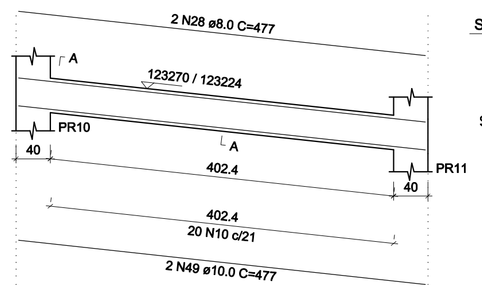


V104 (14 x 40)
ESC 1:50

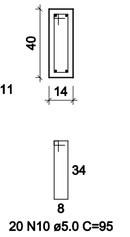


SEÇÃO A-A
ESC 1:25

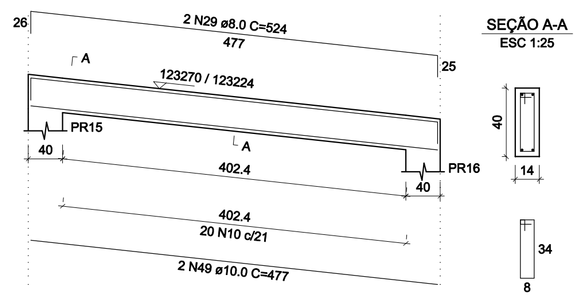
VI1 (14 x 40)
ESC 1:50



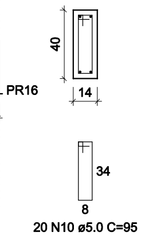
SEÇÃO A-A
ESC 1:25



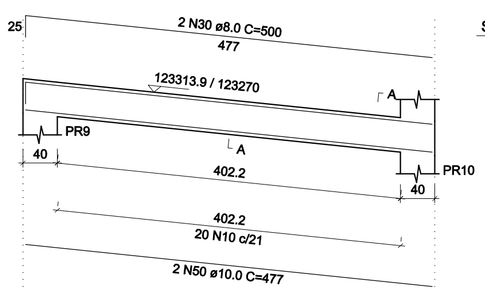
VI2 (14 x 40)
ESC 1:50



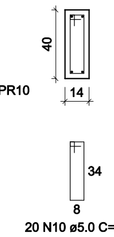
SEÇÃO A-A
ESC 1:25



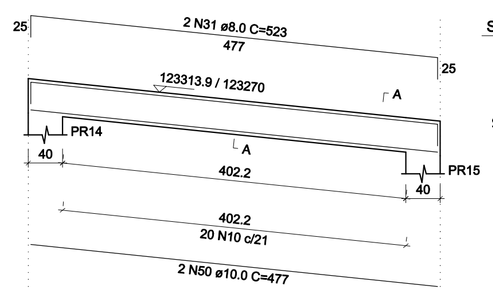
VI3 (14 x 40)
ESC 1:50



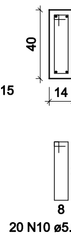
SEÇÃO A-A
ESC 1:25



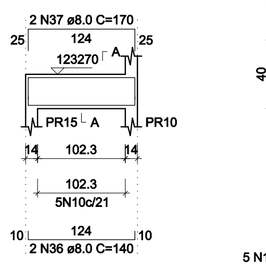
VI4 (14 x 40)
ESC 1:50



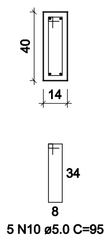
SEÇÃO A-A
ESC 1:25

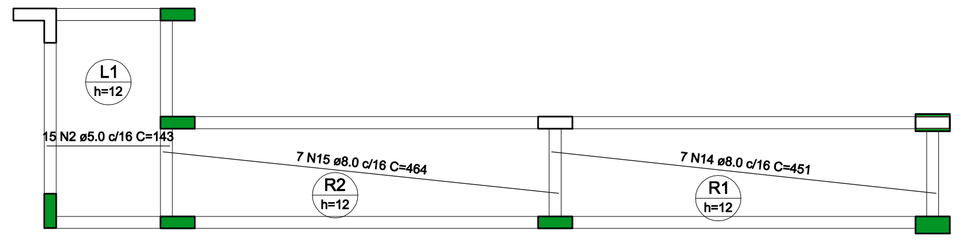


VR1 (14 x 40)
ESC 1:50

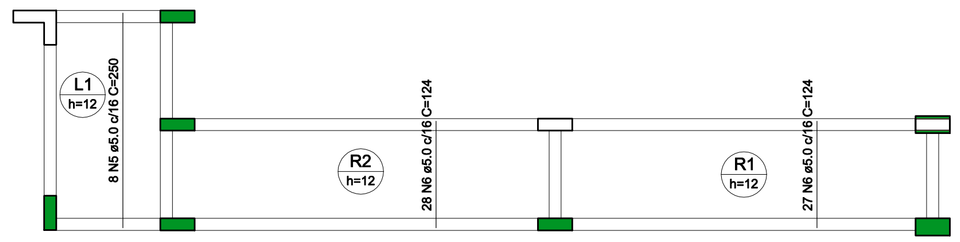


SEÇÃO A-A
ESC 1:25



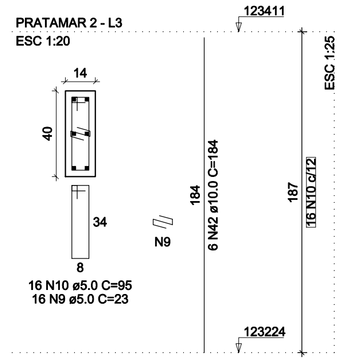


Armação positiva das lajes do pavimento patamar 1 (Eixo X)
escala 1:50



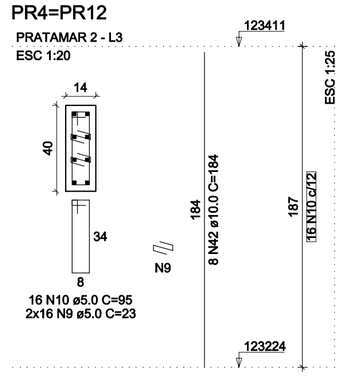
Armação positiva das lajes do pavimento patamar 1 (Eixo Y)
escala 1:50

PR3=PR8=PR11
PRATAMAR 2 - L3
ESC 1:20



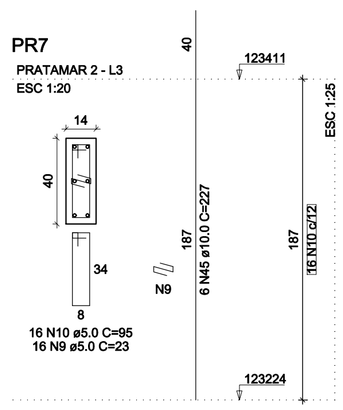
ESC 1:25

PR4=PR12
PRATAMAR 2 - L3
ESC 1:20



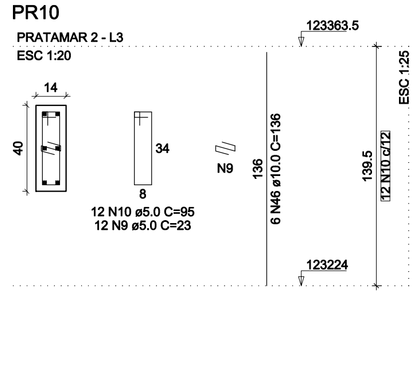
ESC 1:25

PR7
PRATAMAR 2 - L3
ESC 1:20



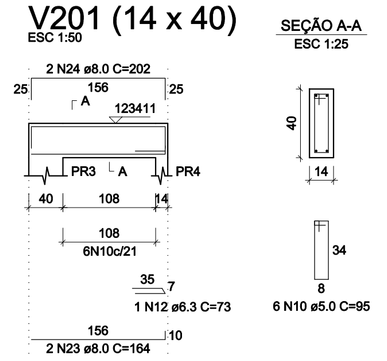
ESC 1:25

PR10
PRATAMAR 2 - L3
ESC 1:20



ESC 1:25

V201 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

RELAÇÃO DO AÇO

PRositivos X-L3	PRositivos X-L2	PRositivos Y-L3
PRositivos Y-L2	PR1-L4	PR2-L4
3xPR3-L3	2xPR4-L3	PR5-L4
PR7-L4	PR7-L3	PR10-L3
V101-L2	V102-L2	V103-L2
V104-L2	V201-L3	V202-L3
V203-L3	V204-L3	VI1-L2
VI2-L2	VI3-L2	VI4-L2
VI5-L3	VI6-L3	VI7-L3
VI8-L3	VR1-L2	VR2-L3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	15	130	1950
	2	5.0	15	143	2145
	3	5.0	7	251	1757
	4	5.0	56	134	7504
	5	5.0	8	250	2000
	6	5.0	55	124	6820
	7	5.0	26	24	624
	8	5.0	26	117	3042
	9	5.0	184	23	4232
	10	5.0	387	95	36765
	11	5.0	19	115	2185
CA50	12	6.3	3	73	219
	13	8.0	14	464	6496
	14	8.0	7	451	3157
	15	8.0	7	464	3248
	16	8.0	2	205	410
	17	8.0	2	228	456
	18	8.0	2	177	354
	19	8.0	2	215	430
	20	8.0	3	250	750
	21	8.0	2	266	532
	22	8.0	2	297	594
	23	8.0	4	164	656
	24	8.0	4	202	808
	25	8.0	2	267	534
	26	8.0	2	298	596
	27	8.0	4	300	1200
	28	8.0	2	477	954
	29	8.0	2	524	1048
	30	8.0	2	500	1000
	31	8.0	2	523	1046
	32	8.0	2	500	1000
	33	8.0	2	524	1048
	34	8.0	2	500	1000
	35	8.0	2	523	1046
	36	8.0	2	140	280
	37	8.0	2	170	340
	38	8.0	2	150	300
	39	8.0	2	180	360
	40	10.0	6	307	1842
	41	10.0	6	235	1410
	42	10.0	34	184	6256
	43	10.0	10	215	2150
	44	10.0	6	48	288
	45	10.0	6	227	1362
	46	10.0	6	136	816
	47	10.0	2	290	580
	48	10.0	2	251	502
	49	10.0	12	477	5724
	50	10.0	4	477	1908

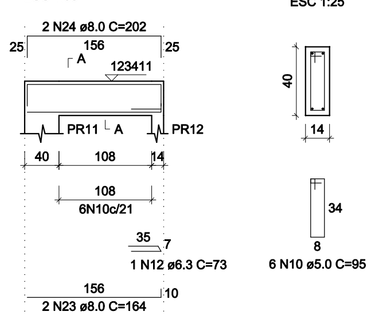
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PRESO + 10% (kg)
CA50	6.3	2.2	1	0.6
	8.0	296.4	28	128.7
	10.0	228.4	21	154.9
CA60	5.0	690.2	64	117

PRESO TOTAL (kg)	
CA50	284.1
CA60	117

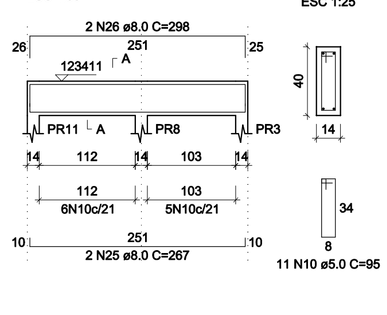
Volume de concreto (C-25) = 7.51 m³
Área de forma = 103.90 m²

V202 (14 x 40)
ESC 1:50



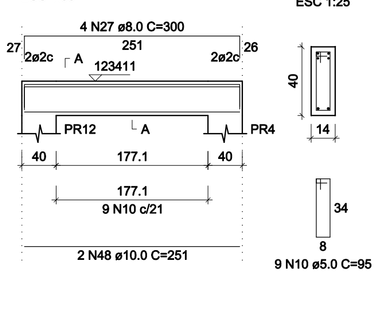
SEÇÃO A-A
ESC 1:25

V203 (14 x 40)
ESC 1:50



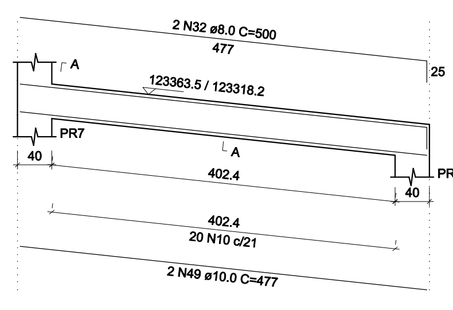
SEÇÃO A-A
ESC 1:25

V204 (14 x 40)
ESC 1:50

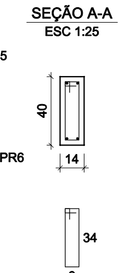


SEÇÃO A-A
ESC 1:25

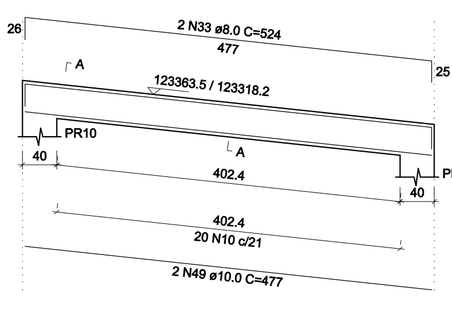
VI5 (14 x 40)
ESC 1:50



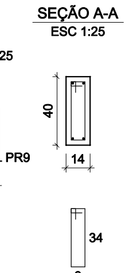
SEÇÃO A-A
ESC 1:25



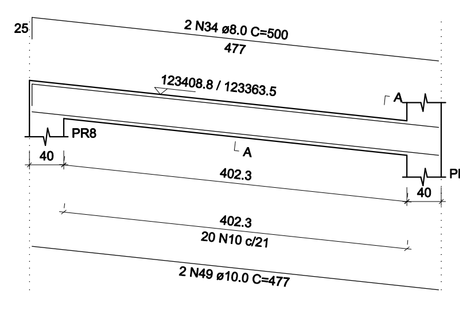
VI6 (14 x 40)
ESC 1:50



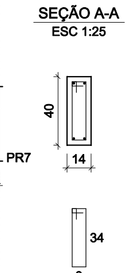
SEÇÃO A-A
ESC 1:25



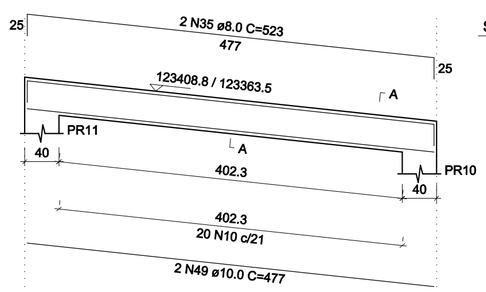
VI7 (14 x 40)
ESC 1:50



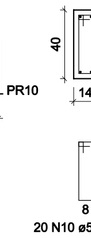
SEÇÃO A-A
ESC 1:25



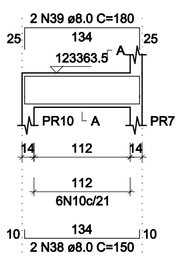
VI8 (14 x 40)
ESC 1:50



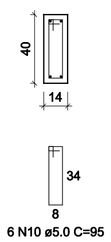
SEÇÃO A-A
ESC 1:25

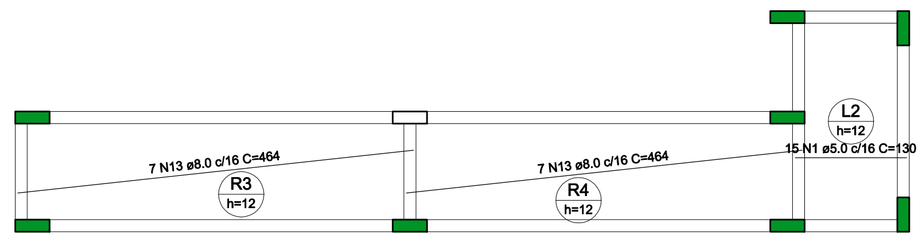


VR2 (14 x 40)
ESC 1:50

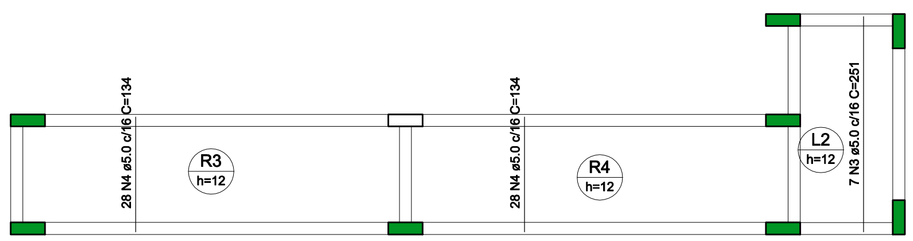


SEÇÃO A-A
ESC 1:25



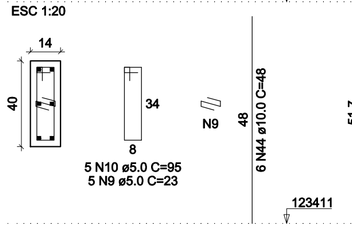


Armação positiva das lajes do pavimento patamar 2 (Eixo X)
escala 1:50



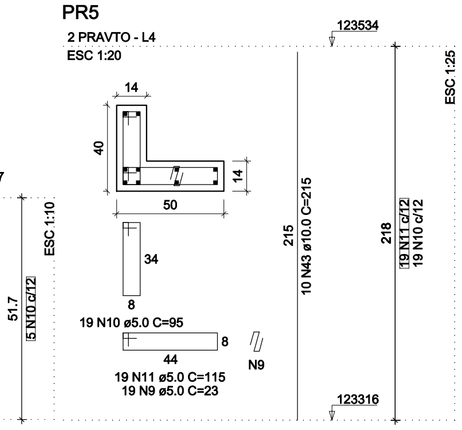
Armação positiva das lajes do pavimento patamar 2 (Eixo Y)
escala 1:50

PR7
2 PRAVTO - L4
ESC 1:20



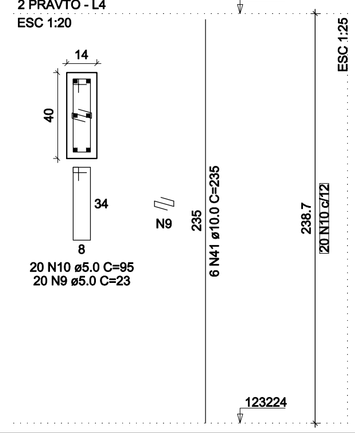
ESC 1:10

PR5
2 PRAVTO - L4
ESC 1:20



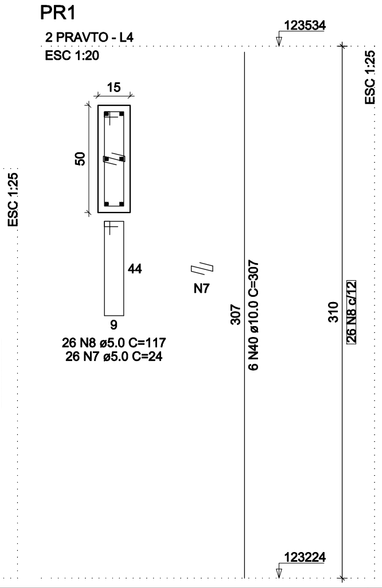
ESC 1:25

PR2
2 PRAVTO - L4
ESC 1:20



ESC 1:25

PR1
2 PRAVTO - L4
ESC 1:20



ESC 1:25

PRROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº579, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA:
* Armação positiva das lajes do pavimento patamar 1 (Eixo X)
* Armação positiva das lajes do pavimento patamar 1 (Eixo Y)
* Armação positiva das lajes do pavimento patamar 2 (Eixo X)
* Armação positiva das lajes do pavimento patamar 2 (Eixo Y)

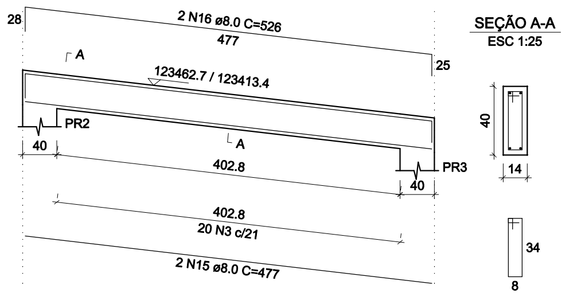
PRRANCHA: 03/04

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00
USO: SERVIÇO PRROFISSIONAL	ÁREA: 731,91m?	ESCALA: INDICADA
		ART: MG20210618832

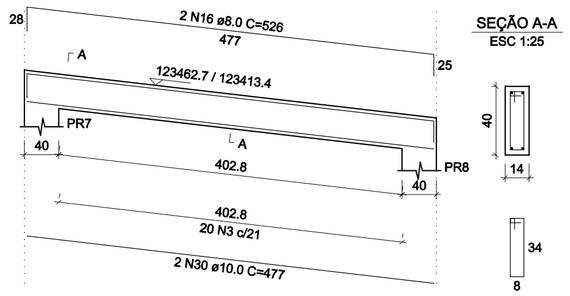
PROPRRIETÁRIO: CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90

VI9 (14 x 40)
ESC 1:50



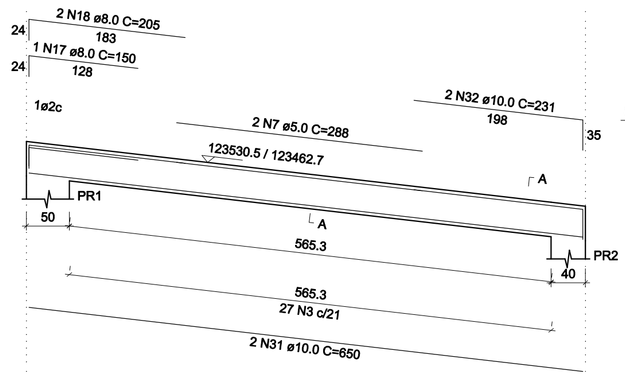
SEÇÃO A-A
ESC 1:25

VI10 (14 x 40)
ESC 1:50

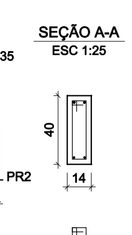


SEÇÃO A-A
ESC 1:25

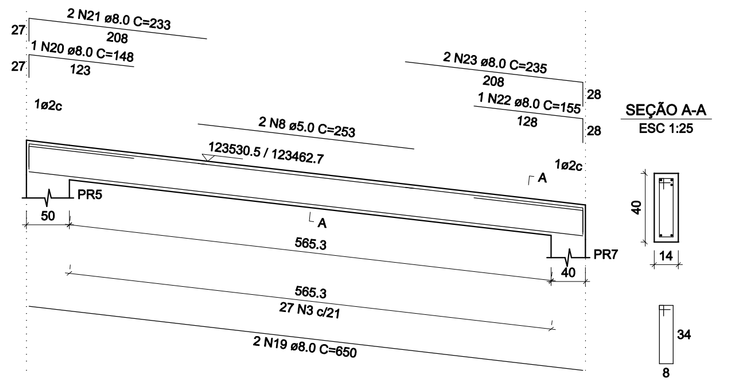
VI11 (14 x 40)
ESC 1:50



SEÇÃO A-A
ESC 1:25

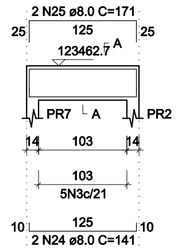


VI12 (14 x 40)
ESC 1:50

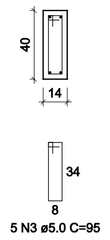


SEÇÃO A-A
ESC 1:25

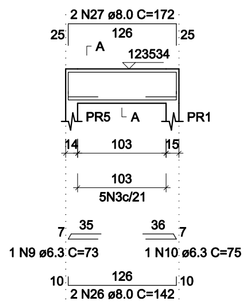
VR3 (14 x 40)
ESC 1:50



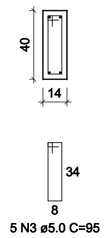
SEÇÃO A-A
ESC 1:25

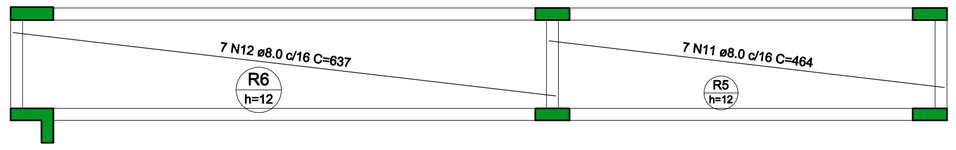


VR4 (14 x 40)
ESC 1:50

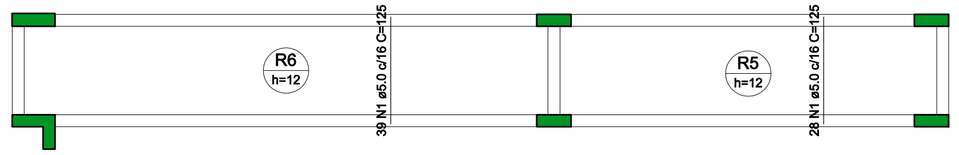


SEÇÃO A-A
ESC 1:25



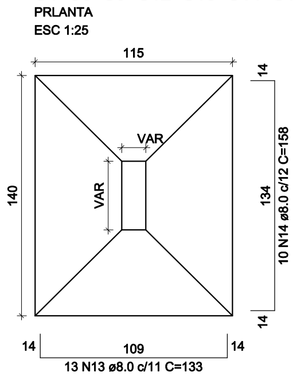


Armação positiva das lajes do pavimento 2 pavto (Eixo X)
escala 1:50

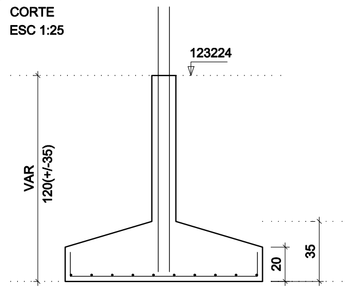


Armação positiva das lajes do pavimento 2 pavto (Eixo Y)
escala 1:50

S4=S6=S9=S12=S13=S14=S15=S16
PRLANTA
ESC 1:25

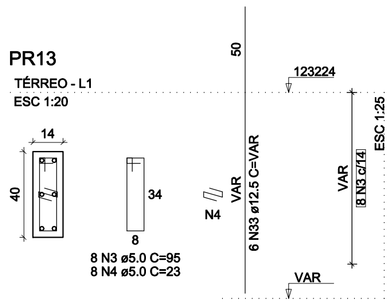


CORTE
ESC 1:25

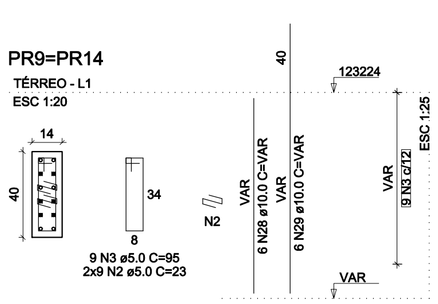


Solo com caPRacidade de suPRorte > 1.50 kgf/cm²
Solo comPRactado sobre a saPRata
PReso esPRecífico > 1600.00 kgf/m³

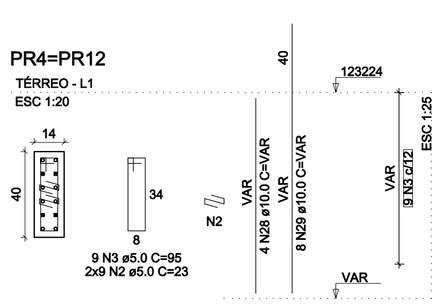
PR13
TÉRREO - L1
ESC 1:20



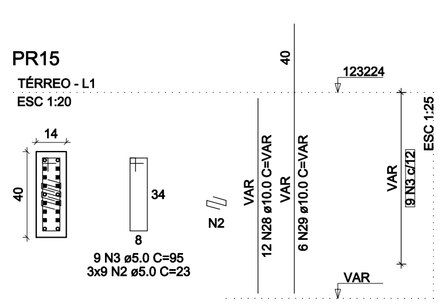
PR9=PR14
TÉRREO - L1
ESC 1:20



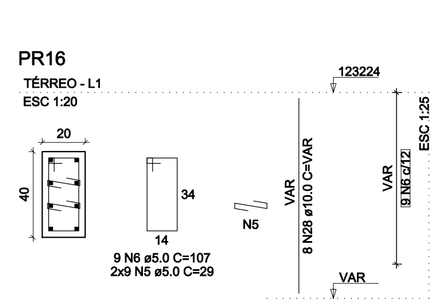
PR4=PR12
TÉRREO - L1
ESC 1:20



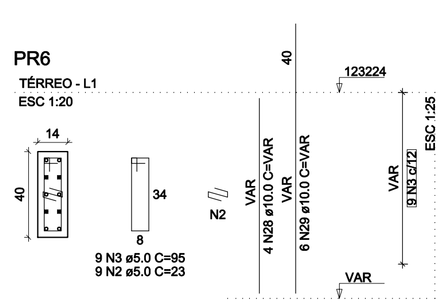
PR15
TÉRREO - L1
ESC 1:20



PR16
TÉRREO - L1
ESC 1:20



PR6
TÉRREO - L1
ESC 1:20



RELAÇÃO DO AÇO

PRositivos X-L4
PR6-L1
PR15-L1
VI9-L4
VI12-L4

PRositivos Y-L4
2xPR9-L1
PR16-L1
V10-L4
VR3-L4

2xPR4-L1
PR13-L1
8xS12-L1
VI11-L4
VR4-L4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	67	125	8375
	2	5.0	108	23	2484
	3	5.0	166	95	15770
	4	5.0	8	23	184
	5	5.0	18	29	522
	6	5.0	9	107	963
	7	5.0	2	288	576
	8	5.0	2	253	506
CA50	9	6.3	1	73	73
	10	6.3	1	75	75
	11	8.0	7	464	3248
	12	8.0	7	637	4459
	13	8.0	104	133	13832
	14	8.0	80	158	12640
	15	8.0	2	477	954
	16	8.0	4	526	2104
	17	8.0	1	150	150
	18	8.0	2	205	410
	19	8.0	2	650	1300
	20	8.0	1	148	148
	21	8.0	2	233	466
	22	8.0	1	155	155
	23	8.0	2	235	470
	24	8.0	2	141	282
	25	8.0	2	171	342
	26	8.0	2	142	284
	27	8.0	2	172	344
	28	10.0	44	VAR	VAR
	29	10.0	40	VAR	VAR
	30	10.0	2	477	954
	31	10.0	2	650	1300
	32	10.0	2	231	462
	33	12.5	6	VAR	VAR

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PRESO + 10% (kg)
CA50	6.3	1.5	1	0.4
	8.0	415.9	39	180.5
	10.0	140.1	13	95
	12.5	10	1	10.6
CA60	5.0	293.8	27	49.8

PRESO TOTAL (kg)	
CA50	286.6
CA60	49.8

Volume de concreto (C-25) = 6.66 m³
Área de forma = 53.39 m²

PRROJETO ESTRUTURAL

RESPRONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.combr

RESPRONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº379, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA
* Armação positiva das lajes do pavimento 2 pavto (Eixo X)
* Armação positiva das lajes do pavimento 2 pavto (Eixo Y)
* Armação da sapata de arranque

PRRANCHA: 04/04

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

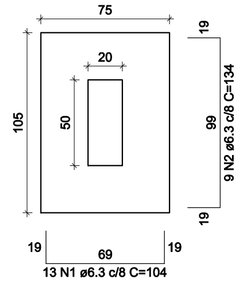
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JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

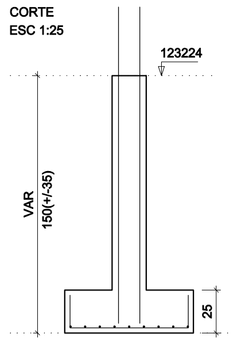
PROPRRIETÁRIO: CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90

SE1-1=SE1-4

PLANTA
ESC 1:25



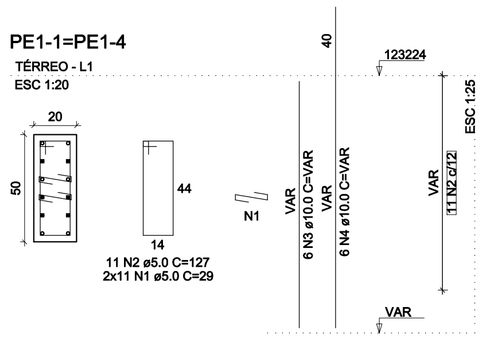
CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

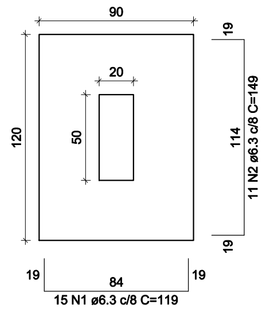
PE1-1=PE1-4

TÉRREO - L1
ESC 1:20

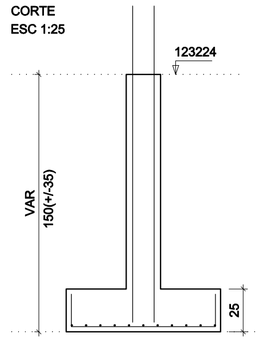


SE1-2=SE1-5

PLANTA
ESC 1:25



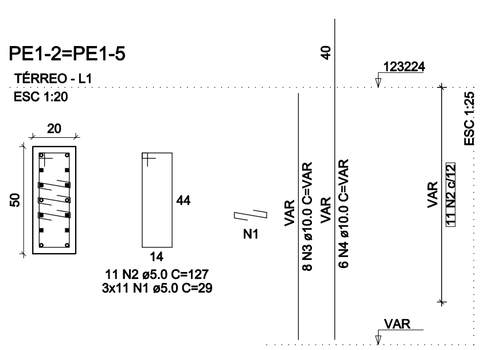
CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

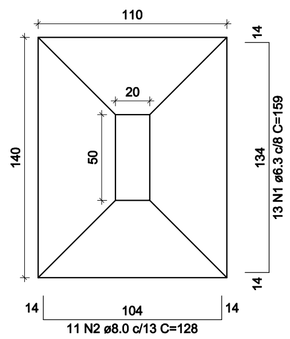
PE1-2=PE1-5

TÉRREO - L1
ESC 1:20

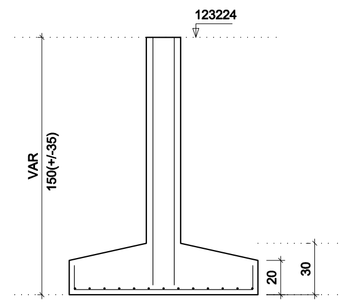


SE1-3=SE1-6

PLANTA
ESC 1:25



CORTE
ESC 1:25



Solo com capacidade de suporte > 1.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xPE1-1	CA60	1	5.0	44	29	1276
	CA60	2	5.0	22	127	2794
	CA50	3	10.0	12	VAR	VAR
	CA50	4	10.0	12	VAR	VAR
2xPE1-2	CA60	1	5.0	66	29	1914
	CA60	2	5.0	22	127	2794
	CA50	3	10.0	16	VAR	VAR
	CA50	4	10.0	12	VAR	VAR
2xPE1-3	CA60	1	5.0	36	29	1044
	CA60	2	5.0	18	127	2286
	CA50	3	12.5	16	VAR	VAR
2xSE1-1	CA50	1	6.3	28	104	2704
	CA50	2	6.3	18	134	2412
2xSE1-2	CA50	1	6.3	30	119	3570
	CA50	2	6.3	22	149	3278
2xSE1-3	CA50	1	6.3	26	159	4134
	CA50	2	8.0	22	128	2816

RESUMO DO AÇO

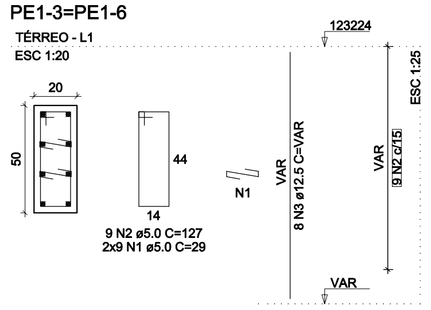
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	161	43.3
	8.0	28.2	12.2
	10.0	85.2	57.8
	12.5	23	24.4
CA60	5.0	121.1	20.5

PESO TOTAL (kg)	
CA50	137.8
CA60	20.5

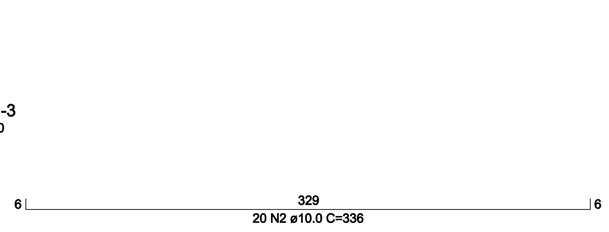
Volume de concreto (C-30) = 0.90 m³
Volume de concreto (C-25) = 1.69 m³
Área de forma = 18.50 m²

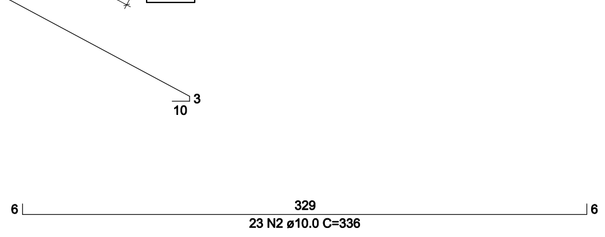
PE1-3=PE1-6

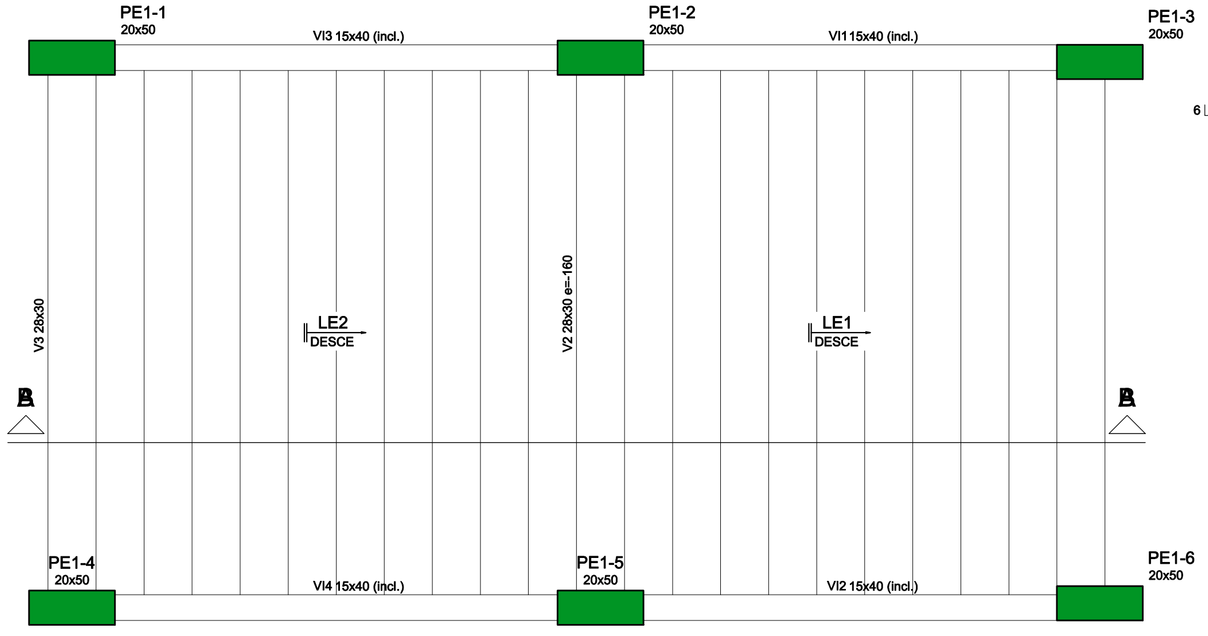
TÉRREO - L1
ESC 1:20





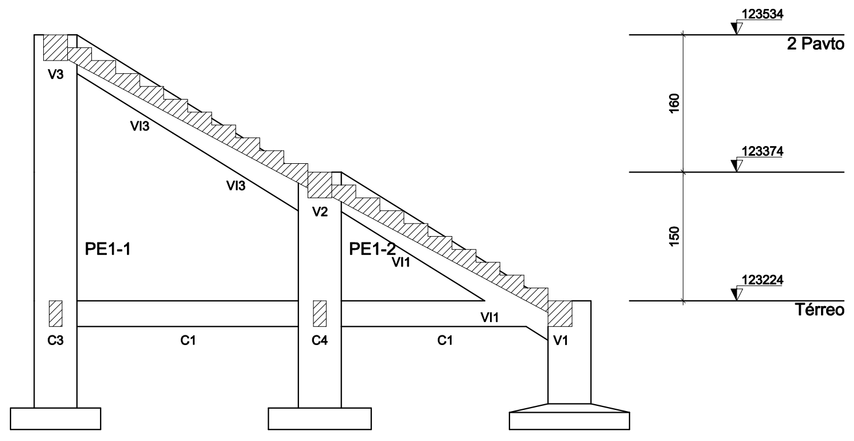




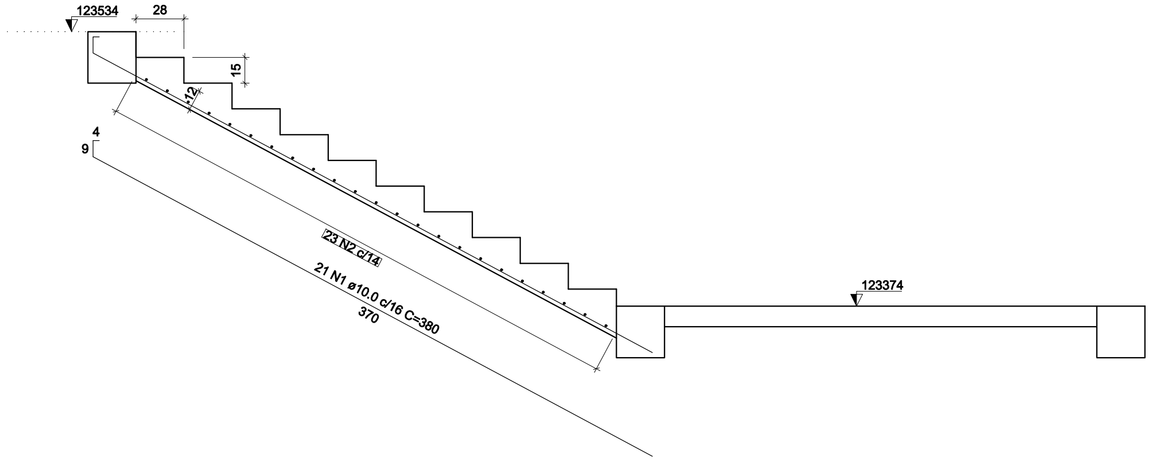


Armação positiva da escada E1
escala 1:25

Corte A-A (LE1)
escala 1:25



Corte A-A- escada externa
escala 1:50



Corte B-B (LE2)
escala 1:25

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
LE1	CA50	1	10.0	21	353	7413
	CA50	2	10.0	20	336	6720
LE2	CA50	1	10.0	21	380	7980
	CA50	2	10.0	23	336	7728

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	298.4	28	202.4

PESO TOTAL (kg)	
CA50	202.4

Volume de concreto (C-25) = 3.61 m³
Área de forma = 28.44 m²

PRROJETO ESTRUTURAL

RESPRONSÁVEL TÉCNICO:

.macedo
Projetos e Engenharia
www.amacedoengenharia.com.br

RESPRONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA:
- Sapata escada externa
- Armação escada externa
- Cortes

PRRANCHA: 01/03

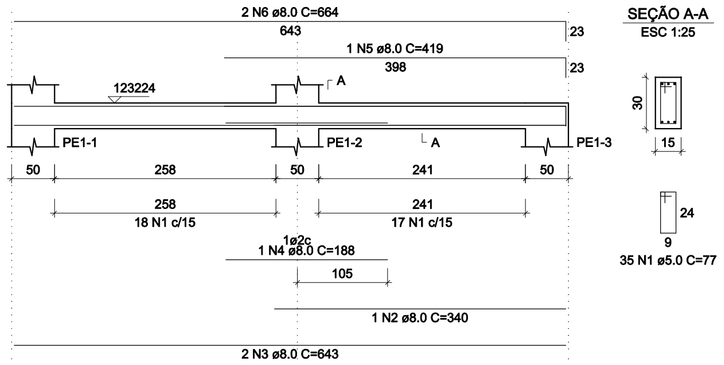
ENDERREÇO DA OBRA:
RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

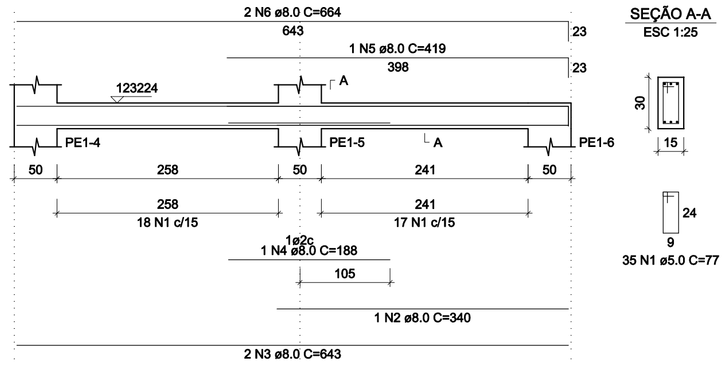
PROPRRIETÁRIO:
CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90

C1 (15 x 30)
ESC 1:50



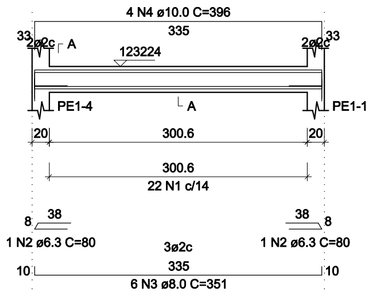
SEÇÃO A-A
ESC 1:25

C2 (15 x 30)
ESC 1:50

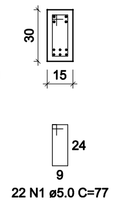


SEÇÃO A-A
ESC 1:25

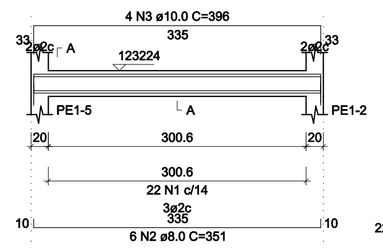
C3 (15 x 30)
ESC 1:50



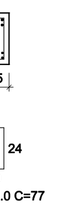
SEÇÃO A-A
ESC 1:25



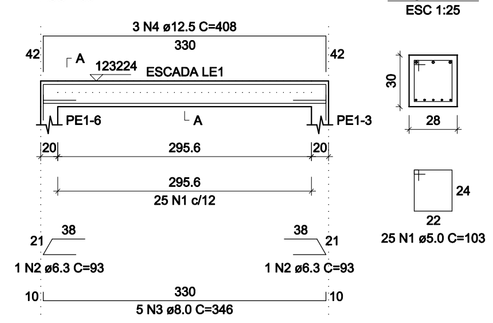
C4 (15 x 30)
ESC 1:50



SEÇÃO A-A
ESC 1:25

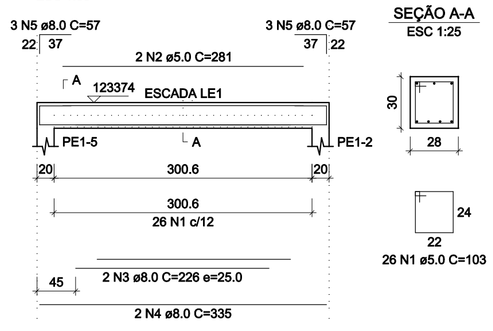


V1 (28 x 30)
ESC 1:50



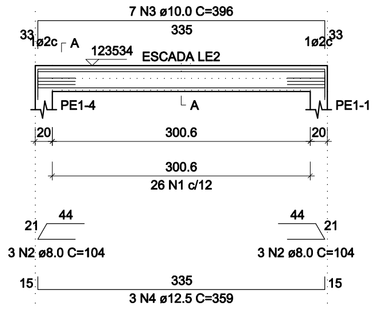
SEÇÃO A-A
ESC 1:25

V2 (28 x 30)
ESC 1:50

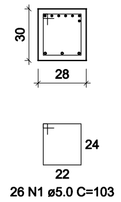


SEÇÃO A-A
ESC 1:25

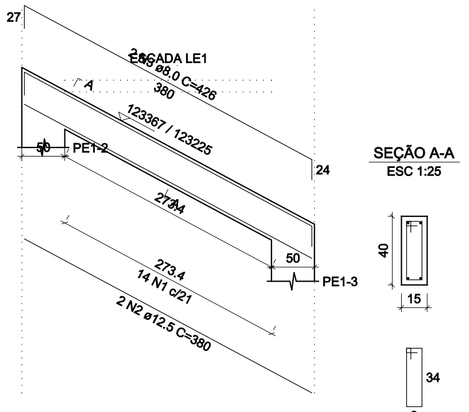
V3 (28 x 30)
ESC 1:50



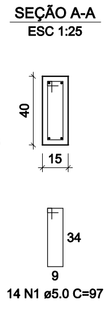
SEÇÃO A-A
ESC 1:25



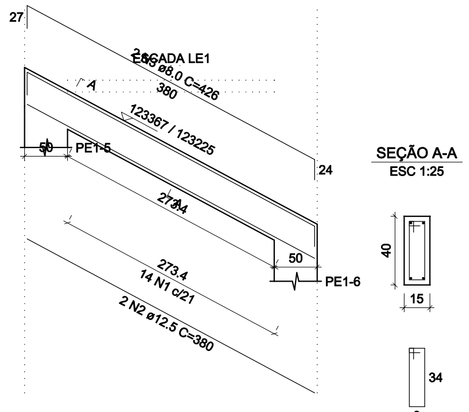
VI1 (15 x 40)
ESC 1:50



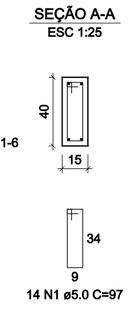
SEÇÃO A-A
ESC 1:25



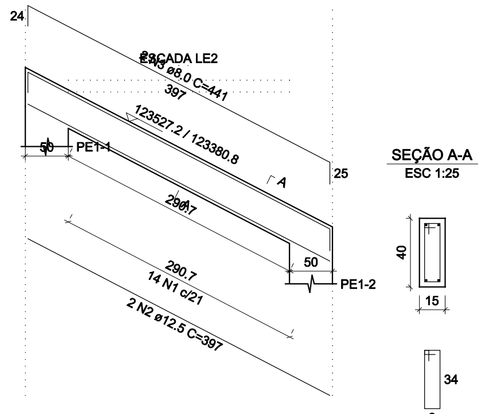
VI2 (15 x 40)
ESC 1:50



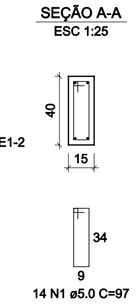
SEÇÃO A-A
ESC 1:25



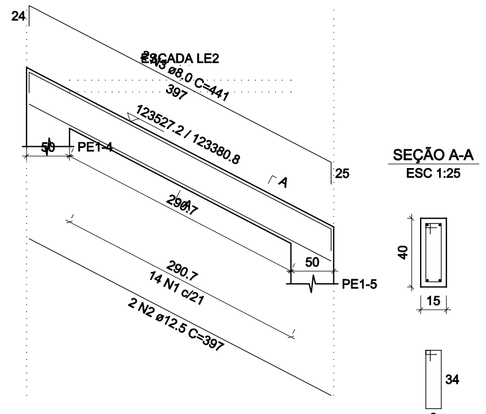
VI3 (15 x 40)
ESC 1:50



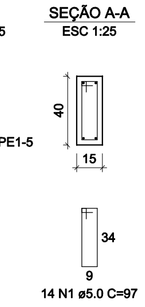
SEÇÃO A-A
ESC 1:25



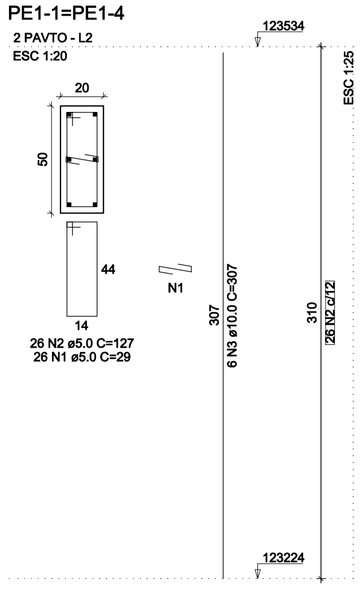
VI4 (15 x 40)
ESC 1:50



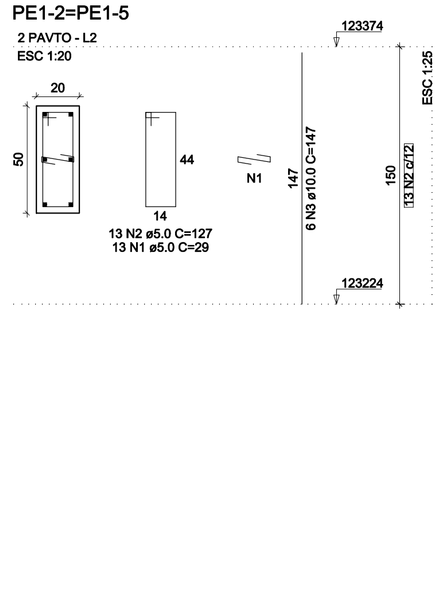
SEÇÃO A-A
ESC 1:25



PE1-1=PE1-4
2 PAVTO - L2
ESC 1:20



PE1-2=PE1-5
2 PAVTO - L2
ESC 1:20



RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xPE1-1	CA60	1	5.0	52	29	1508
	CA60	2	5.0	52	127	6604
	CA50	3	10.0	12	307	3684
2xPE1-2	CA60	1	5.0	26	29	754
	CA60	2	5.0	26	127	3302
	CA50	3	10.0	12	147	1764

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	54.5	36.9
CA60	5.0	121.7	20.6
PESO TOTAL (kg)			
CA50	36.9		
CA60	20.6		

Volume de concreto (C-30) = 0.92 m³
Área de forma = 12.88 m²

RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
C1-L1	CA60	1	5.0	35	77	2695
	CA50	2	8.0	1	340	340
	CA50	3	8.0	2	643	1286
	CA50	4	8.0	1	188	188
	CA50	5	8.0	1	419	419
	CA50	6	8.0	2	664	1328
C2-L1	CA60	1	5.0	35	77	2695
	CA50	2	8.0	1	340	340
	CA50	3	8.0	2	643	1286
	CA50	4	8.0	1	188	188
	CA50	5	8.0	1	419	419
	CA50	6	8.0	2	664	1328
C3-L1	CA60	1	5.0	22	77	1694
	CA50	2	6.3	2	80	160
	CA50	3	8.0	6	351	2106
	CA50	4	10.0	4	396	1584
C4-L1	CA60	1	5.0	22	77	1694
	CA50	2	8.0	6	351	2106
	CA50	3	10.0	4	396	1584
V1-L1	CA60	1	5.0	25	103	2575
	CA50	2	6.3	2	93	186
	CA50	3	8.0	5	346	1730
	CA50	4	12.5	3	408	1224
V2-L2	CA60	1	5.0	26	103	2678
	CA60	2	5.0	2	281	562
	CA50	3	8.0	2	226	452
	CA50	4	8.0	2	335	670
	CA50	5	8.0	6	57	342
V3-L2	CA60	1	5.0	26	103	2678
	CA50	2	8.0	6	104	624
	CA50	3	10.0	7	396	2772
	CA50	4	12.5	3	359	1077
VI1-L2	CA60	1	5.0	14	97	1358
	CA50	2	12.5	2	380	760
	CA50	3	8.0	2	426	852
VI2-L2	CA60	1	5.0	14	97	1358
	CA50	2	12.5	2	380	760
	CA50	3	8.0	2	426	852
VI3-L2	CA60	1	5.0	14	97	1358
	CA50	2	12.5	2	397	794
	CA50	3	8.0	2	441	882
VI4-L2	CA60	1	5.0	14	97	1358
	CA50	2	12.5	2	397	794
	CA50	3	8.0	2	441	882

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	3.5	0.9
	8.0	186.2	80.8
	10.0	59.4	40.3
	12.5	54.1	57.3
CA60	5.0	227	38.5
PESO TOTAL (kg)			
CA50	179.4		
CA60	38.5		

Volume de concreto (C-30) = 2.58 m³
Área de forma = 37.07 m²

PRROJETO ESTRUTURAL

RESPONSÁVEL TÉCNICO:
A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPONSÁVEL TÉCNICO:
A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº59, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA:
- Vigas escada externa
- Pilares escada externa

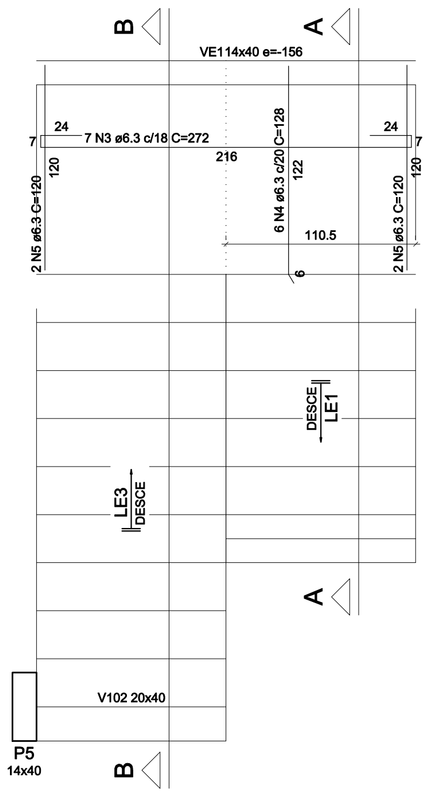
PRRANCHA: 02/03

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

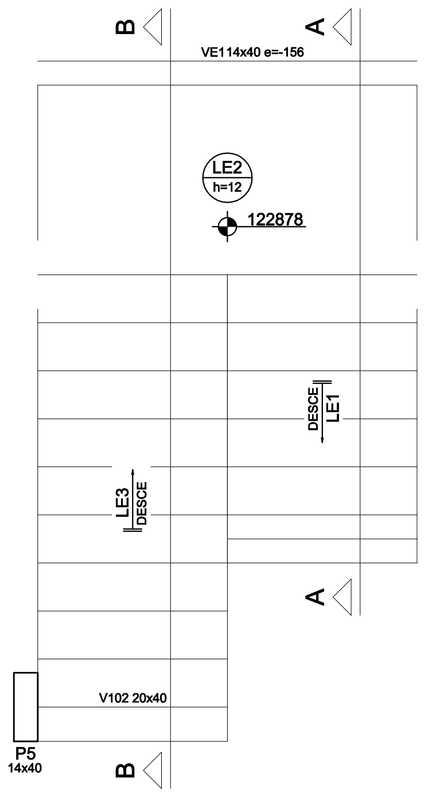
CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

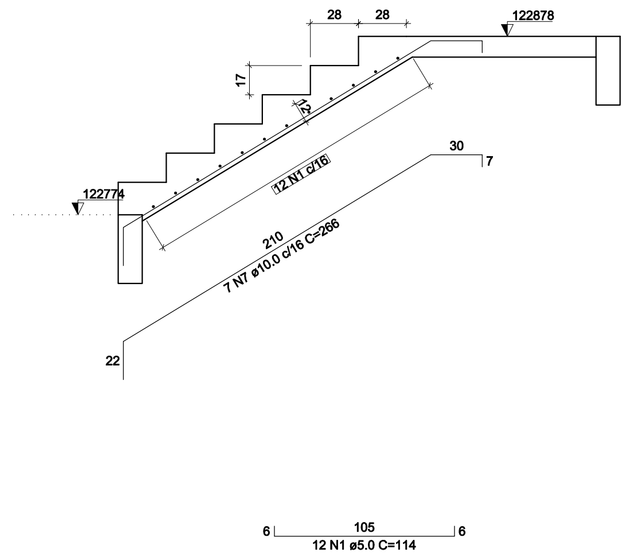
PROPRRIETÁRIO: CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90



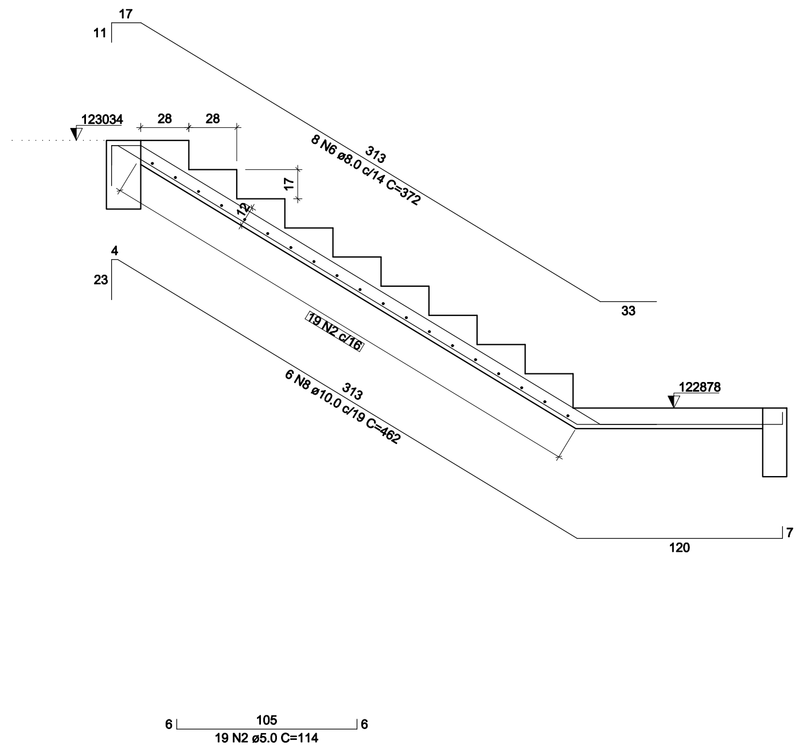
Armação positiva da escada E1
escala 1:25



Armação negativa da escada E1
escala 1:25



Corte A-A (LE1)
escala 1:25



Corte B-B (LE3)
escala 1:25

RELAÇÃO DO AÇO

LE1 LE2 LE3

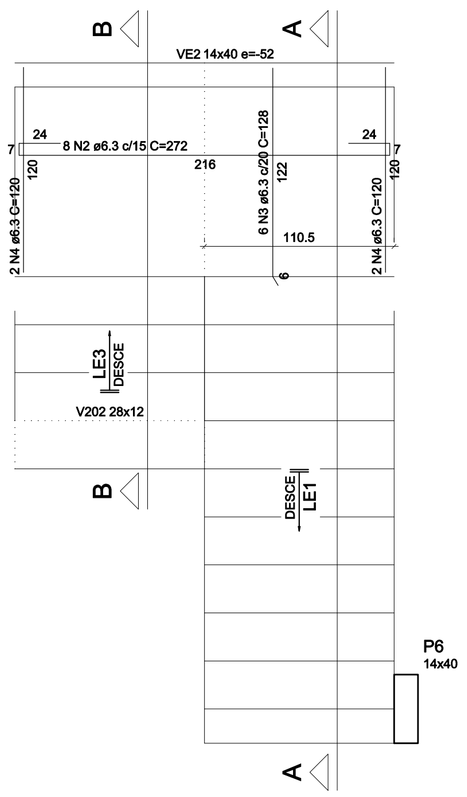
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	12	114	1368
	2	5.0	19	114	2166
CA50	3	6.3	7	272	1904
	4	6.3	6	128	768
	5	6.3	4	120	480
	6	8.0	8	372	2976
	7	10.0	7	266	1862
	8	10.0	6	462	2772

RESUMO DO AÇO

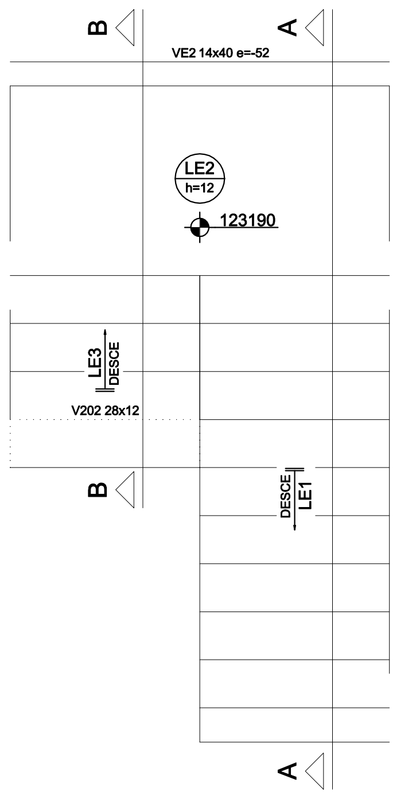
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	31.5	8.5
	8.0	29.8	12.9
	10.0	46.3	31.4
CA60	5.0	35.3	6

PESO TOTAL (kg)	
CA50	52.8
CA60	6

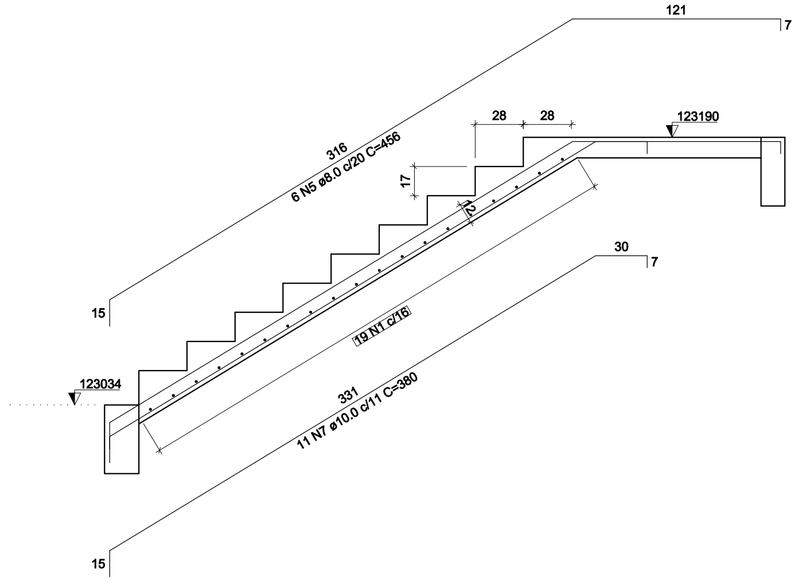
Volume de concreto (C-25) = 1.33 m³
Área de forma = 14.06 m²



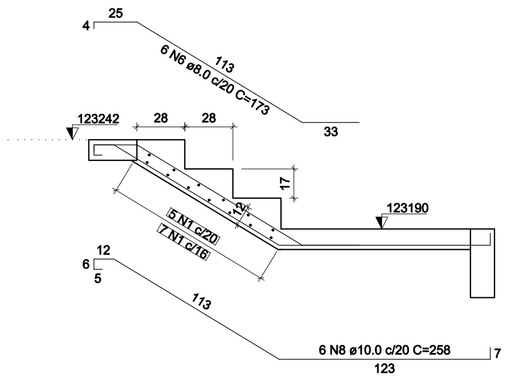
Armação positiva da escada E2
escala 1:25



Armação negativa da escada E2
escala 1:25



Corte A-A (LE1)
escala 1:25



Corte B-B (LE3)
escala 1:25

RELAÇÃO DO AÇO

LE1 LE2 LE3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	31	114	3534
CA50	2	6.3	8	272	2176
	3	6.3	6	128	768
	4	6.3	4	120	480
	5	8.0	6	456	2736
	6	8.0	6	173	1038
	7	10.0	11	380	4180
	8	10.0	6	258	1548

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	34.2	9.2
	8.0	37.7	16.4
	10.0	57.3	38.8
CA60	5.0	35.3	6

PESO TOTAL (kg)	
CA50	64.4
CA60	6

Volume de concreto (C-25) = 1.14 m³
Área de forma = 12.15 m²

PRROJETO ESTRUTURAL

RESPRONSÁVEL TÉCNICO:

A.macedo Projetos e Engenharia
www.amacedoengenharia.com.br

RESPRONSÁVEL TÉCNICO:

A. MACEDO PRROJETOS & ENGENHARIA
CNPRJ: 09.566.686/0001-57
RT: ANTÔNIO AUGUSTO DE MACEDO
Eng. Civil - Eng. Segurança do Trabalho
Crea-MG : 81.746/D
RUA MARGARIDA CORTONA, Nº759, CANAAN, SETE LAGOAS/MG
FONE: (31) 3771-0554 - 3773-9936

CONTEÚDO DESTA PRRANCHA
- Armação escada interna
- Cortes
- Detalhes

PRRANCHA: 03/03

ENDEREÇO DA OBRA: RUA SETE LAGOAS, S/N, ESTRADA PRARTICULAR

CIDADE:	DATA:	REV:
JEQUITIBÁ/MG	JULHO/2022	00

USO:	ÁREA:	ESCALA:	ART:
SERVIÇO PRROFISSIONAL	731,91m?	INDICADA	MG20210618832

PROPRRIETÁRIO: CÂMARA MUNICIPRAL DE JEQUITIBÁ
CNPRJ:21.607.569/0001-90