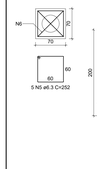
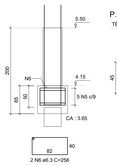
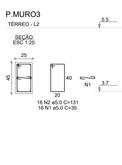
BP.MURO3=BP.MURO4
1xE40
PLANTA
ESC 1:40



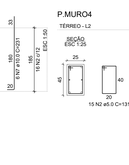
CORTE
ESC 1:40



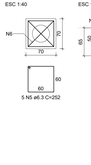
P.MURO3
TÉRREO - L2



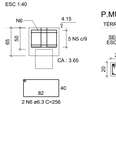
P.MURO4
TÉRREO - L2



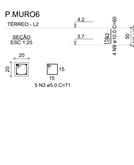
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PLANTA
ESC 1:40



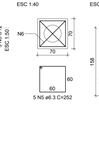
CORTE
ESC 1:40



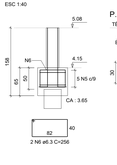
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TÉRREO - L2



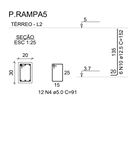
BP.RAMPA5
1xE40
PLANTA
ESC 1:40



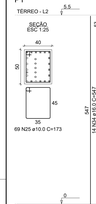
CORTE
ESC 1:40



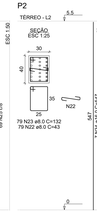
P.RAMPA5
TÉRREO - L2



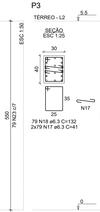
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TÉRREO - L2



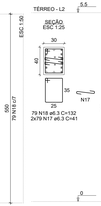
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TÉRREO - L2



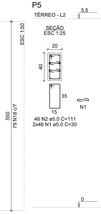
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TÉRREO - L2



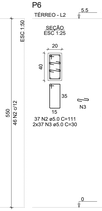
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TÉRREO - L2



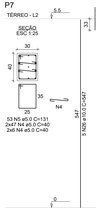
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TÉRREO - L2



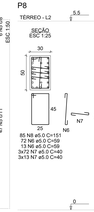
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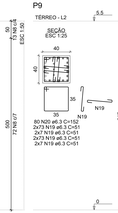
P7
TÉRREO - L2



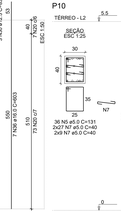
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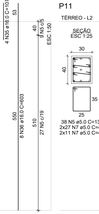
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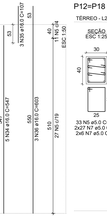
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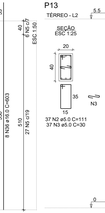
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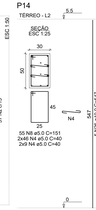
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TÉRREO - L2



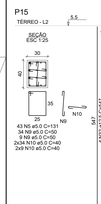
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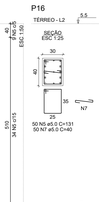
P14
TÉRREO - L2



P15
TÉRREO - L2



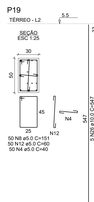
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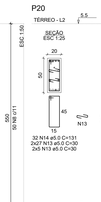
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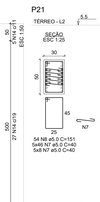
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TÉRREO - L2



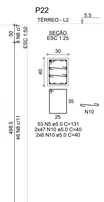
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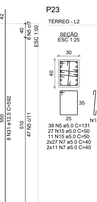
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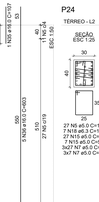
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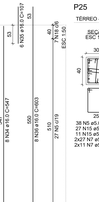
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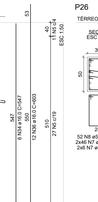
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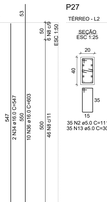
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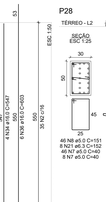
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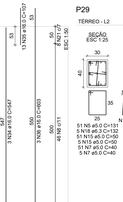
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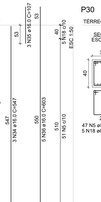
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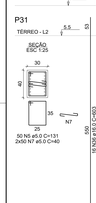
P29
TÉRREO - L2



P30
TÉRREO - L2



P31
TÉRREO - L2



P32
TÉRREO - L2

P33
TÉRREO - L2

P34
TÉRREO - L2

P35
TÉRREO - L2

P36
TÉRREO - L2

P.MURO1
TÉRREO - L2

P.MURO2
TÉRREO - L2

P.MURO5
TÉRREO - L2

P.RAMPA1
TÉRREO - L2

P.RAMPA2
TÉRREO - L2

P.RAMPA3
TÉRREO - L2

RELAÇÃO DO AÇO

2xBP.MURO4
P.MURO3
P.RAMPA5

BP.MURO6
P.MURO4

BP.RAMPA5
P.MURO6

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	16	35	560
	2	5.0	31	131	4061
	3	5.0	5	71	355
	4	5.0	5	252	1260
CA50	5	6.3	32	252	8040
	6	6.3	8	256	2048
	7	10.0	6	231	1386
	8	10.0	2	67	134
	9	12.5	6	152	912
	10	12.5	6	152	912
	11	16.0	4	249	996

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	70.9	19.3
	10.0	9.1	5.6
	12.5	5.1	9.7
	16.0	10	17.3
CA60	5.0	60.7	10.3
PESO TOTAL (kg)			
CA50	58		
CA60	10.3		

Volume de concreto (C-30) = 1.56 m³
Área de forma = 11.99 m²

RELAÇÃO DO AÇO

P1 P2 P3
P4 P5 P6
P7 P8 P9
P10 P11 2xP12
P13 P14 P15
P16 P17 P18
P20 P21 P22
P23 P24 P25
P26 P27 P28
P29 P30 P31
P32 P33 P34
P35 P.MURO1 P.MURO2
P.MURO3 P.MURO5 P.RAMPA1
P.RAMPA2 P.RAMPA3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	184	30	5520
	2	5.0	155	111	17205
	3	5.0	355	40	14200
	4	5.0	355	40	14940
	5	5.0	749	131	98119
	6	5.0	135	59	7965
	7	5.0	1623	40	64920
	8	5.0	1623	131	212613
	9	5.0	43	50	2150
	10	5.0	405	40	16200
	11	5.0	41	71	2911
	12	5.0	50	60	3000
	13	5.0	50	60	3000
	14	5.0	78	131	10218
	15	5.0	166	50	8300
	16	5.0	72	111	7992
	17	6.3	775	42	32550
	18	6.3	370	152	56240
	19	6.3	320	51	16320
	20	6.3	80	152	12160
	21	8.0	79	152	12008
	22	8.0	79	43	3397
	23	8.0	79	132	10428
	24	8.0	17	92	1564
	25	10.0	69	173	11937
	26	10.0	69	173	11937
	27	10.0	21	583	12243
	28	10.0	18	67	1206
	29	10.0	4	132	528
	30	12.5	23	83	1909
	31	12.5	18	547	9846
	32	12.5	18	547	9846
	33	12.5	20	132	2640
	34	16.0	138	547	75486
	35	16.0	68	101	7276
	36	16.0	68	547	37196
	37	16.0	10	548	5480
	38	16.0	8	602	4816
	39	16.0	12	412	4944
	40	16.0	8	132	1056

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	607.5	177
	8.0	153.5	66.8
	10.0	428.1	263.7
	12.5	428.1	453.7
	16.0	1919	3331.7
CA60	5.0	3281.8	556.4
PESO TOTAL (kg)			
CA50	4275.4		
CA60	556.4		

Volume de concreto (C-30) = 25.75 m³
Área de forma = 301.05 m²

OBSERVAÇÕES:

01- COTAS E NIVEIS DEVEM SER VERIFICADOS NO PROJETO DE ARQUITETURA
02- A LOCAÇÃO NO TERRENO DEVE SER VERIFICADA NA PLANTA DE SITUAÇÃO
03- OS QUANTITATIVOS PODEM VARIAR CONFORME EXECUÇÃO IN LOCO

MULIN ARQUITETURA
ARQUITETURA | HIDROSSANITÁRIOS | ELÉTRICA | NOVEIS | INTERIORES
End.: R. Ana Caterina de Azevedo, nº 54, Loja 01, Centro, Baixada - RJ
www.mulinarquitetura.com
Projeto: mulinarquitetura@gmail.com
(21)99722 1667
mulinarquitetura
mulinarquitetura

PROJETO ESTRUTURAL PARA CONSTRUÇÃO DE FUTURA ESCOLA MUNICIPAL PROFESSORA LUCIA DE FÁTIMA FARAH NORONHA (TIA LUCINHA), COMPOSTA DE QUATRO PAVIMENTOS, SENDO UM SEMI-ENTERRADO, LOCALIZADA A RUA DOUTOR CHAPOT PREVOST, Nº 157, CENTRO, CANTAGALO - RIO DE JANEIRO, CEP 28.500-000

DET. ARM. PILARES ATÉ O PAV. TÉRREO

DATA:	ESCALA:	PROJETO:	ENDEREÇO:	TIPO DE OBRA:
09/02/2026	INDICADA	ALOIR JR.	RUA CHAPOT PREVOST, CENTRO, CANTAGALO - RIO DE JANEIRO, CEP 28.500-000	CONSTRUÇÃO

PROPRIETÁRIO:	CNPJ 28.645.797/0001-60	CÓDIGO DO PROJETO:
MUNICIPIO DE CANTAGALO		25055-EST-PE-015-00
AUTOR DO PROJETO	REGISTRO: P-247215-1	RESPONSÁVEL TÉCNICO / REGISTRO
LUCAS DE PINHO MULIN ARQUITETURA E CONSTRUÇÃO ME		

FORMATO A1 ESTENDIDO - 594 x 1500