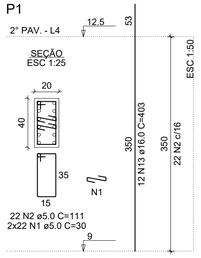
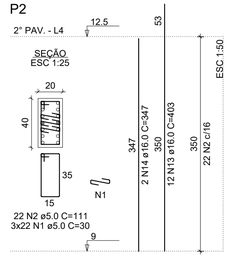
P1



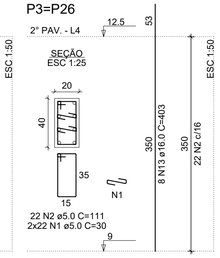
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P2



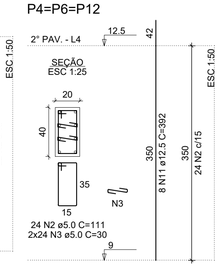
22 N2 ø5.0 C=111
3x22 N1 ø5.0 C=30

P3=P26



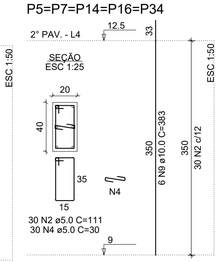
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P4=P6=P12



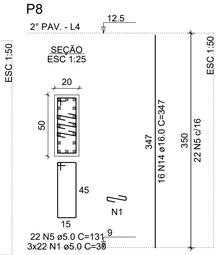
24 N2 ø5.0 C=111
2x24 N3 ø5.0 C=30

P5=P7=P14=P16=P34



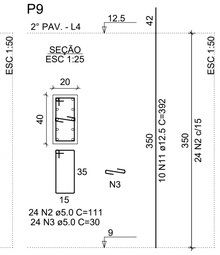
30 N2 ø5.0 C=111
30 N4 ø5.0 C=30

P8



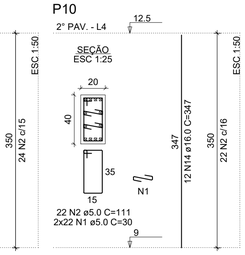
22 N5 ø5.0 C=131
3x22 N1 ø5.0 C=30

P9



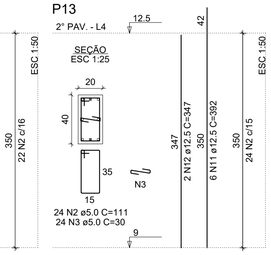
24 N2 ø5.0 C=111
24 N3 ø5.0 C=30

P10



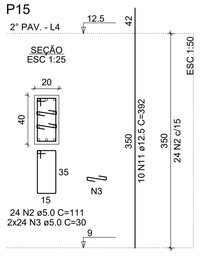
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P13



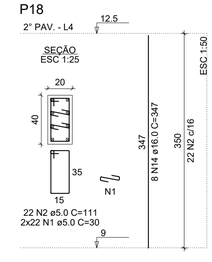
24 N2 ø5.0 C=111
24 N3 ø5.0 C=30

P15



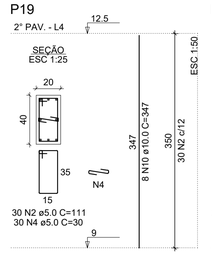
24 N2 ø5.0 C=111
2x24 N3 ø5.0 C=30

P18



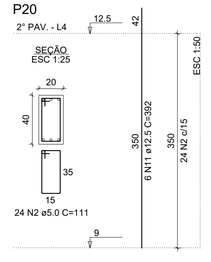
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P19



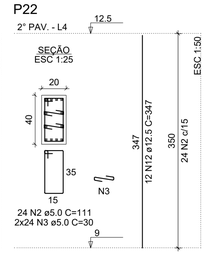
30 N2 ø5.0 C=111
30 N4 ø5.0 C=30

P20



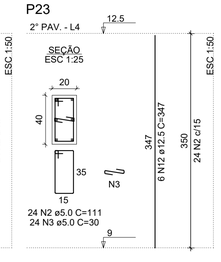
24 N2 ø5.0 C=111

P22



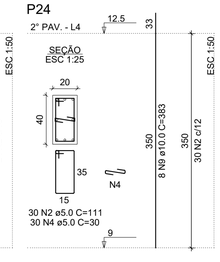
24 N2 ø5.0 C=111
2x24 N3 ø5.0 C=30

P23



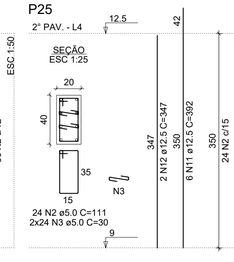
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24 N3 ø5.0 C=30

P24



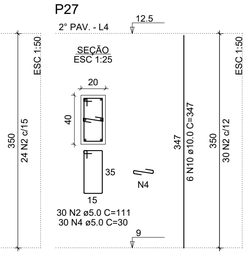
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30 N4 ø5.0 C=30

P25



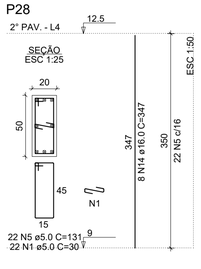
24 N2 ø5.0 C=111
2x24 N3 ø5.0 C=30

P27



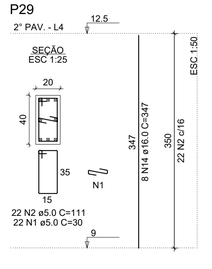
30 N2 ø5.0 C=111
30 N4 ø5.0 C=30

P28



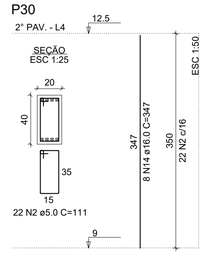
22 N5 ø5.0 C=131
22 N1 ø5.0 C=30

P29



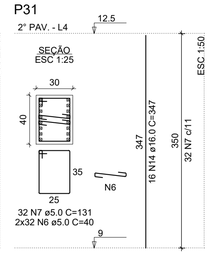
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22 N1 ø5.0 C=30

P30



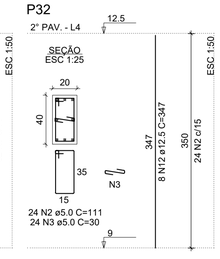
22 N2 ø5.0 C=111

P31



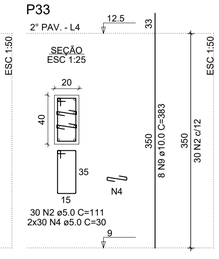
32 N7 ø5.0 C=131
2x32 N6 ø5.0 C=40

P32



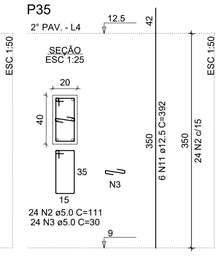
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24 N3 ø5.0 C=30

P33



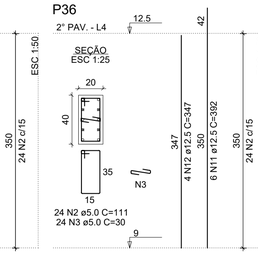
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2x30 N4 ø5.0 C=30

P35



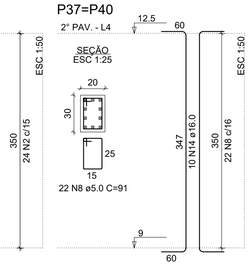
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24 N3 ø5.0 C=30

P36



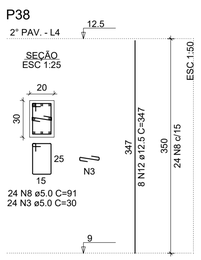
24 N2 ø5.0 C=111
24 N3 ø5.0 C=30

P37=P40



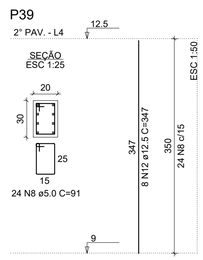
22 N8 ø5.0 C=91

P38



24 N8 ø5.0 C=91
24 N3 ø5.0 C=30

P39



24 N8 ø5.0 C=91

RELAÇÃO DO AÇO

P1	P2	2xP3
3xP4	5xP5	P8
P9	P10	P13
P15	P18	P19
P20	P22	P23
P24	P25	P27
P28	P29	P30
P31	P32	P33
P35	P36	2xP37
P38	P39	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	396	30	11880
	2	5.0	758	111	84138
	3	5.0	456	30	13680
	4	5.0	300	30	9000
	5	5.0	44	131	5764
	6	5.0	64	40	2560
	7	5.0	32	131	4192
	8	5.0	92	91	8372
CA50	9	10.0	46	383	17618
	10	10.0	14	347	4858
	11	12.5	74	392	29008
	12	12.5	50	347	17350
	13	16.0	40	403	16120
	14	16.0	98	347	34006

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	224.8	152.4
	12.5	463.6	491.2
	16.0	501.3	870.3
CA60	5.0	1395.9	236.7

PESO TOTAL (kg)	
CA50	1513.9
CA60	236.7

Volume de concreto (C-30) = 10.36 m³
Área de forma = 154.70 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 | MÓVEIS | INTERIORES
End.: R. Ana Catarina de Azevedo, nº 64, Loja 01, Centro, Itaocara - RJ
www.mulinarquitetura.com
E-mail: mulinarquitetura@gmail.com
22)99722-1887
/mulinarquitetura
mulinarquitetura

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

DET. ARM. PILARES ATÉ O PAV. 02

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 28.645.797/00001-60
MUNICÍPIO DE CANTAGALO

CÓDIGO DO PROJETO: 25055-EST-PE-027-00
código do projeto - disciplina - etapa projetual - nº da prancha - nº da revisão

AUTOR DO PROJETO: REGISTRO: PJ47215-1
LUCAS DE PINHO MULIN ARQUITETURA E CONSTRUÇÃO ME

RESPONSÁVEL TÉCNICO: REGISTRO:

FORMATO A1