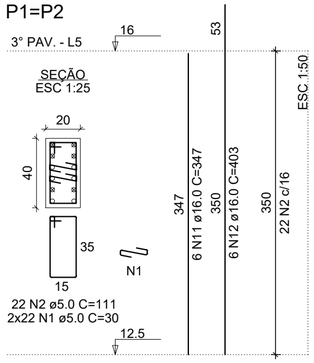
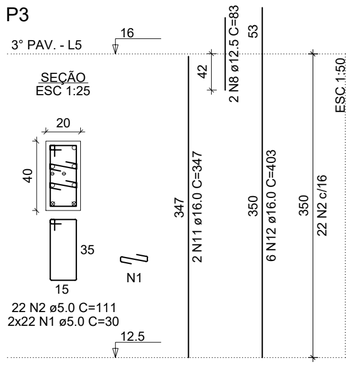
P1=P2



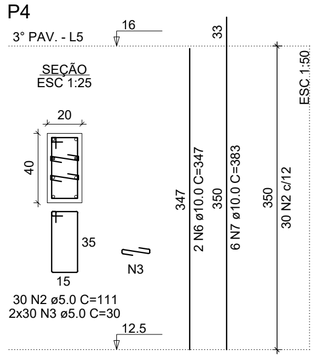
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P3



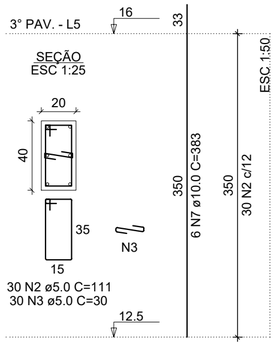
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P4



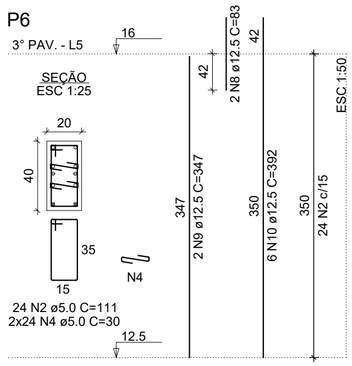
30 N2 ø5.0 C=111
2x30 N3 ø5.0 C=30

P5=P13=P14



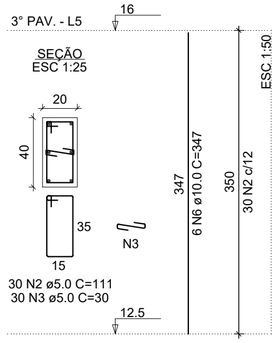
30 N2 ø5.0 C=111
30 N3 ø5.0 C=30

P6



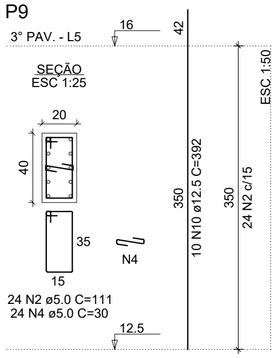
24 N2 ø5.0 C=111
2x24 N4 ø5.0 C=30

P7=P16=P34



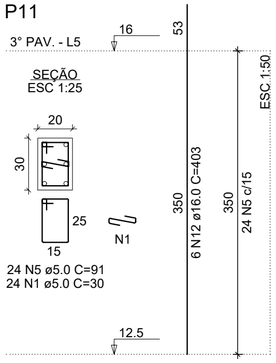
30 N2 ø5.0 C=111
30 N3 ø5.0 C=30

P9



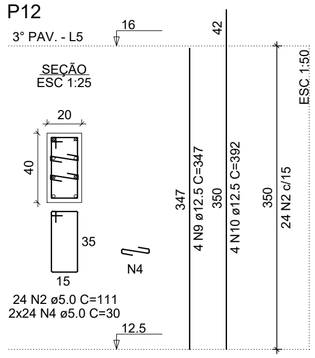
24 N2 ø5.0 C=111
24 N4 ø5.0 C=30

P11



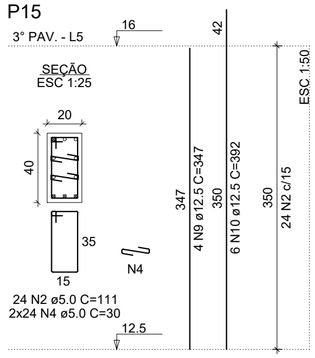
24 N5 ø5.0 C=91
24 N1 ø5.0 C=30

P12



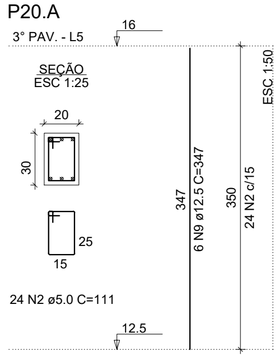
24 N2 ø5.0 C=111
2x24 N4 ø5.0 C=30

P15



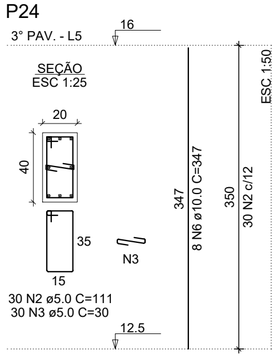
24 N2 ø5.0 C=111
2x24 N4 ø5.0 C=30

P20.A



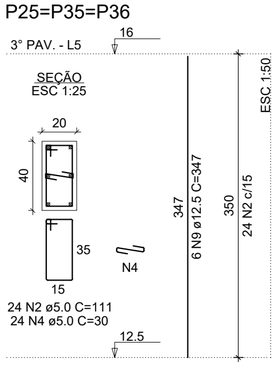
24 N2 ø5.0 C=111

P24



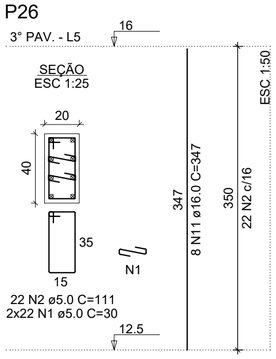
30 N2 ø5.0 C=111
30 N3 ø5.0 C=30

P25=P35=P36



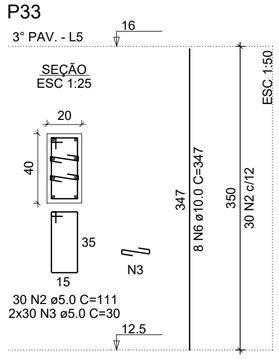
24 N2 ø5.0 C=111
24 N4 ø5.0 C=30

P26



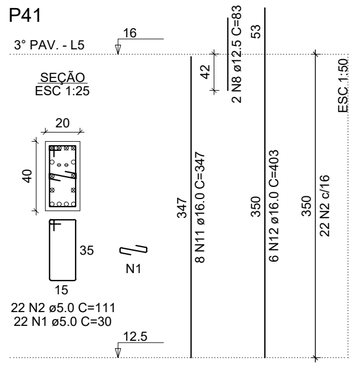
22 N2 ø5.0 C=111
2x22 N1 ø5.0 C=30

P33



30 N2 ø5.0 C=111
2x30 N3 ø5.0 C=30

P41



22 N2 ø5.0 C=111
22 N1 ø5.0 C=30

RELAÇÃO DO AÇO

2xP1	P3	P4
3xP5	P6	3xP7
P9	P11	P12
P15	P20	P24
3xP25	P26	P33
P41		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	222	30	6660
	2	5.0	572	111	63492
	3	5.0	330	30	9900
	4	5.0	240	30	7200
	5	5.0	24	91	2184
CA50	6	10.0	36	347	12492
	7	10.0	24	383	9192
	8	12.5	6	83	498
	9	12.5	34	347	11798
	10	12.5	26	392	10192
	11	16.0	30	347	10410
	12	16.0	30	403	12090

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	216.8	147.1
	12.5	224.9	238.3
	16.0	225	390.6
CA60	5.0	894.4	151.6

PESO TOTAL (kg)	
CA50	776
CA60	151.6

Volume de concreto (C-30) = 6.37 m³
Área de forma = 95.90 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
ulinarquitetura

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. 03

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-033-00
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 A2