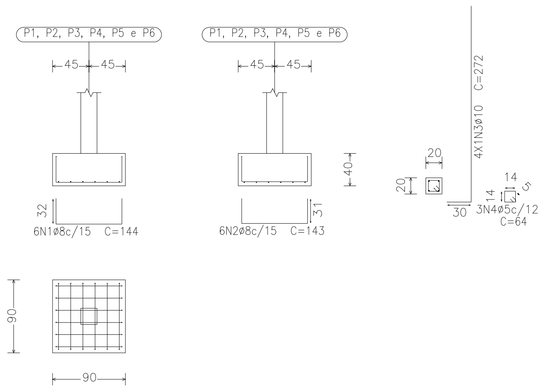
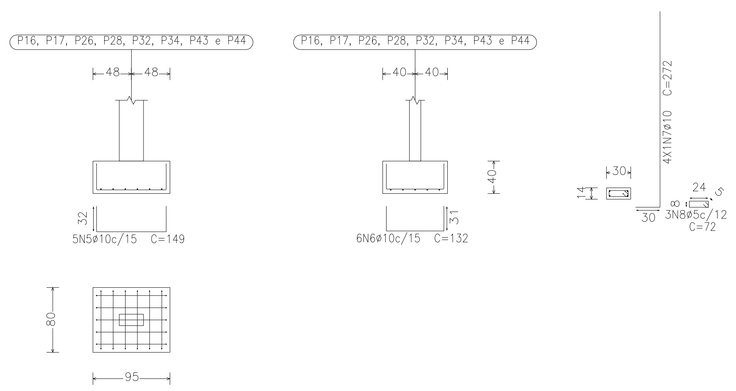
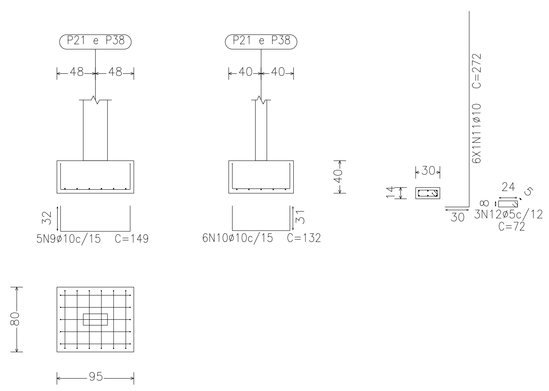
P1, P2, P3, P4, P5 e P6



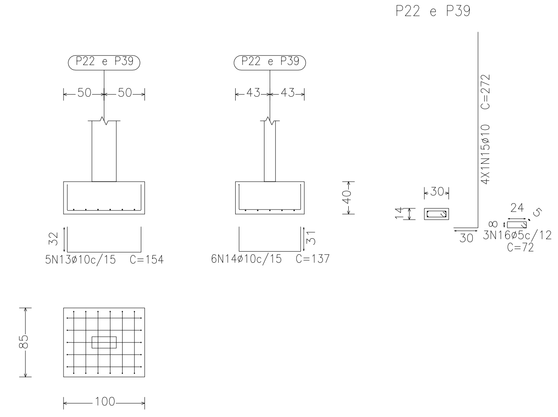
P16, P17, P26, P28, P32, P34, P43 e P44



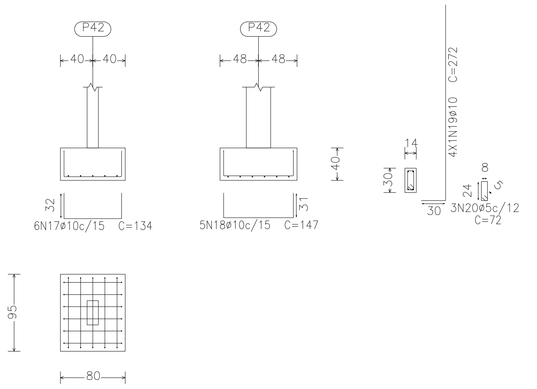
P21 e P38



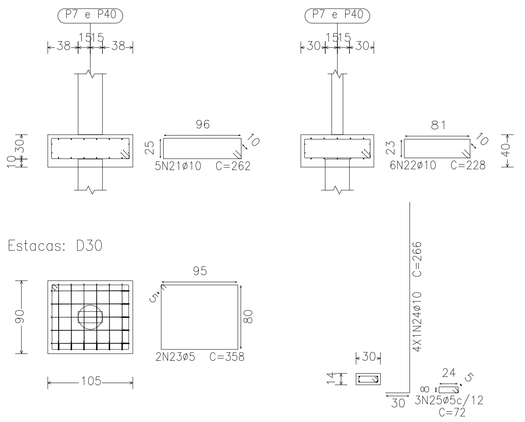
P22 e P39



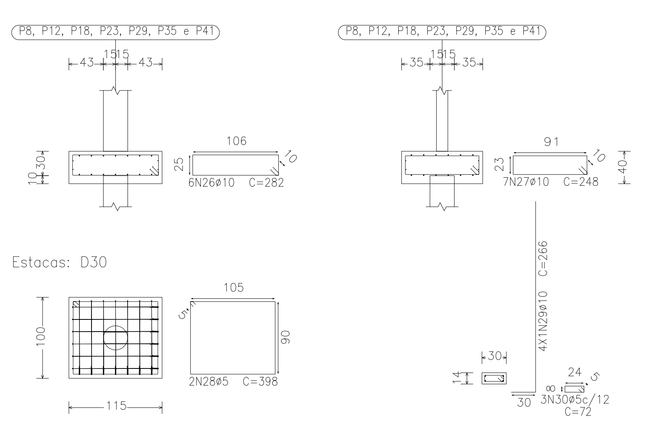
P42



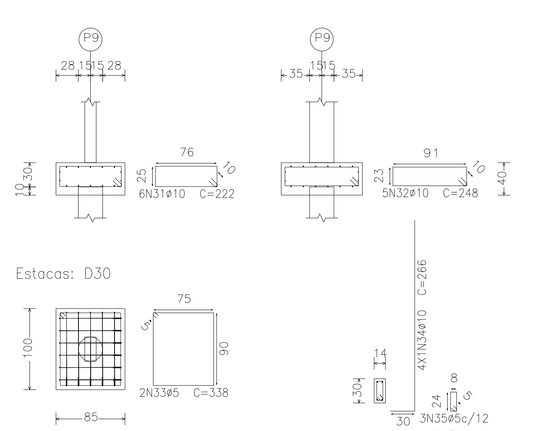
P7 e P40



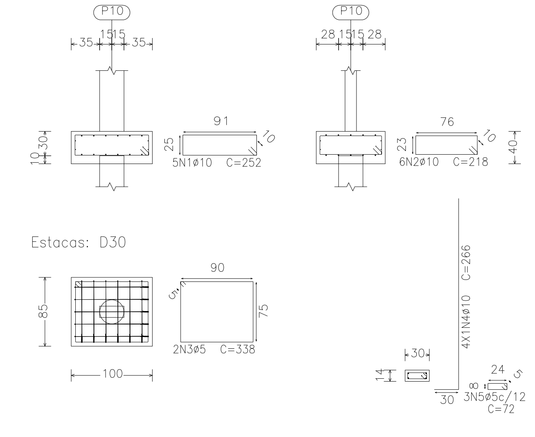
P8, P12, P18, P23, P29, P35 e P41



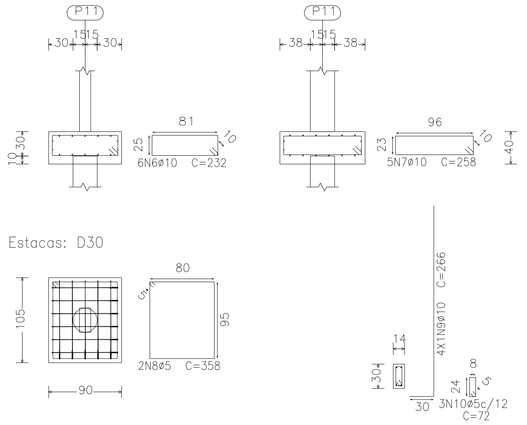
P9



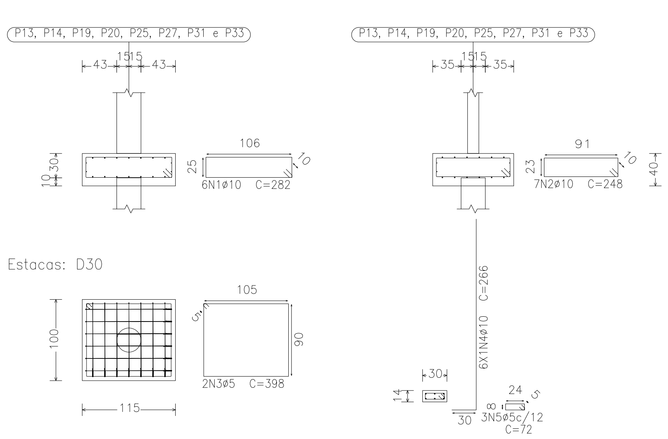
P10



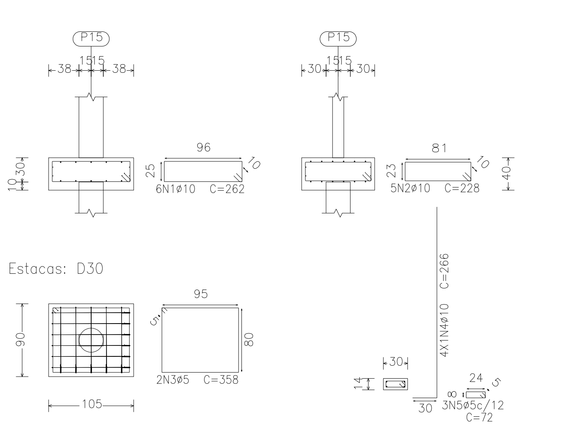
P11



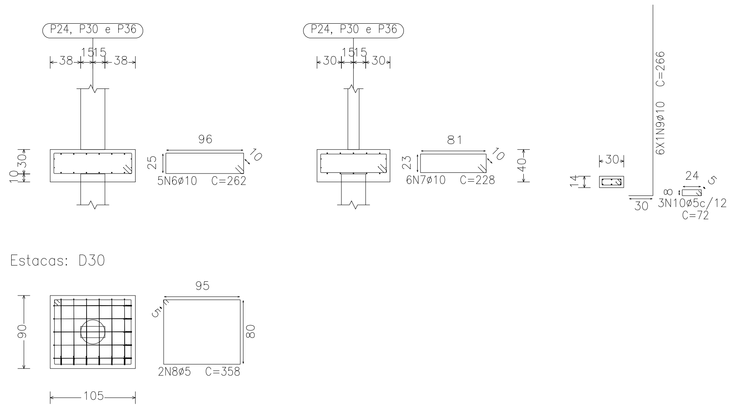
P13, P14, P19, P20, P25, P27, P31 e P33



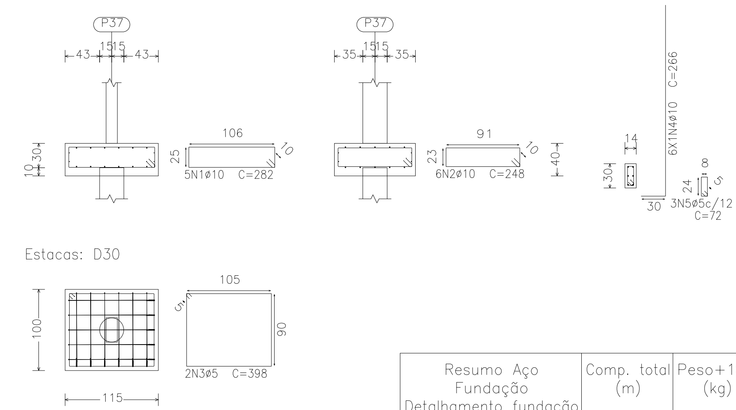
P15



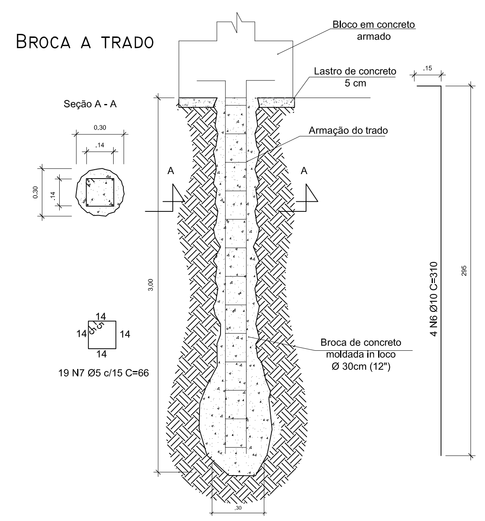
P24, P30 e P36



P37



Broca a trado



Resumo Aço Fundação Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA-50	ø8	103.3	45	
	ø10	1530.8	1038	1083
CA-60	ø5	284.6	49	49
Total				1132

Fundação
Detalhamento fundação
Concreto: C25, em geral
Escala: 1:100

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1=P2=P3=P4=P5 P6	1	ø8	6	32	80	32	144	864	3.4	
	2	ø8	6	31	81	31	143	858	3.4	
	3	ø10	4	30	242		272	1088	6.7	
	4	ø5	3		64		64	192		0.3
								Total+10%:	14.9	0.3
								(x6):	89.4	1.8
P16=P17=P26=P28 P32=P34=P43=P44	5	ø10	5	32	85	32	149	745	4.6	
	6	ø10	6	31	70	31	132	792	4.9	
	7	ø10	4	30	242		272	1088	6.7	
	8	ø5	3		72		72	216		0.3
								Total+10%:	17.8	0.3
								(x8):	142.4	2.4
P21=P38	9	ø10	5	32	85	32	149	745	4.6	
	10	ø10	6	31	70	31	132	792	4.9	
	11	ø10	6	30	242		272	1632	10.1	
	12	ø5	3		72		72	216		0.3
								Total+10%:	21.6	0.3
								(x2):	43.2	0.6
P22=P39	13	ø10	5	32	90	32	154	770	4.7	
	14	ø10	6	31	75	31	137	822	5.1	
	15	ø10	4	30	242		272	1088	6.7	
	16	ø5	3		72		72	216		0.3
								Total+10%:	18.2	0.3
								(x2):	36.4	0.6
P42	17	ø10	6	32	70	32	134	804	5.0	
	18	ø10	5	31	85	31	147	735	4.5	
	19	ø10	4	30	242		272	1088	6.7	
	20	ø5	3		72		72	216		0.3
								Total+10%:	17.8	0.3
P7=P40	21	ø10	5		262		262	1310	8.1	
	22	ø10	6		228		228	1368	8.4	
	23	ø5	2		358		358	716		1.1
	24	ø10	4	30	236		266	1064	6.6	
	25	ø5	3		72		72	216		0.3
								Total+10%:	25.4	1.5
								(x2):	50.8	3.0
P8=P12=P18=P23 P29=P35=P41	26	ø10	6		282		282	1692	10.4	
	27	ø10	7		248		248	1736	10.7	
	28	ø5	2		398		398	796		1.2
	29	ø10	4	30	236		266	1064	6.6	
	30	ø5	3		72		72	216		0.3
								Total+10%:	30.4	1.6
								(x7):	212.8	11.2
P9	31	ø10	6		222		222	1332	8.2	
	32	ø10	5		248		248	1240	7.6	
	33	ø5	2		338		338	676		1.1
	34	ø10	4	30	236		266	1064	6.6	
	35	ø5	3		72		72	216		0.3
								Total+10%:	24.6	1.5
								ø5:	0.0	21.4
								ø8:	45.0	0.0
								ø10:	573.0	0.0
								Total:	618.0	21.4

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P10	1	ø10	5		252		252	1260	7.8	
	2	ø10	6		218		218	1308	8.1	
	3	ø5	2		338		338	676		1.1
	4	ø10	4	30	236		266	1064	6.6	
	5	ø5	3		72		72	216		0.3
								Total+10%:	24.7	1.5
P11	6	ø10	6		232		232	1392	8.6	
	7	ø10	5		258		258	1290	7.9	
	8	ø5	2		358		358	716		1.1
	9	ø10	4	30	236		266	1064	6.6	
	10	ø5	3		72		72	216		0.3
								Total+10%:	25.4	1.5
								ø5:	0.0	3.0
								ø10:	50.1	0.0
								Total:	50.1	3.0

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P13=P14=P19=P20 P25=P27=P31=P33	1	ø10	6		282		282	1692	10.4	
	2	ø10	7		248		248	1736	10.7	
	3	ø5	2		398		398	796		1.2
	4	ø10	6	30	236		266	1596	9.8	
	5	ø5	3		72		72	216		0.3
								Total+10%:	34.0	1.6
								(x8):	272.0	13.2
								ø5:	0.0	13.2
								ø10:	272.0	0.0
								Total:	272.0	13.2

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P15	1	ø10	6		262		262	1572	9.7	
	2	ø10	5		228		228	1140	7.0	
	3	ø5	2		358		358	716		1.1
	4	ø10	4	30	236		266	1064	6.6	
	5	ø5	3		72		72	216		0.3
								Total+10%:	25.6	1.5
P24=P30=P36	6	ø10	5		262		262	1310	8.1	
	7	ø10	6		228		228	1368	8.4	
	8	ø5	2		358		358	716		1.1
	9	ø10	6	30	236		266	1596	9.8	
	10	ø5	3		72		72	216		0.3
								Total+10%:	28.9	1.5
								(x3):	86.7	4.5
								ø5:	0.0	6.0
								ø10:	112.3	0.0
								Total:	112.3	6.0

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P37	1	ø10	5		282		282	1410	8.7	
	2	ø10	6		248		248	1488	9.2	
	3	ø5	2		398		398	796		1.2
	4	ø10	6	30	236		266	1596	9.8	
	5	ø5	3		72		72	216		0.3
								Total+10%:	30.5	1.6
								ø5:	0.0	1.6
								ø10:	30.5	0.0
								Total:	31.8	1.6

P.M.B.M. SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO

PROJETO DE ENGENHARIA

FOLHA 02/17

CRECHE - DETALHAMENTO DAS FUNDAÇÕES

DESCRIÇÃO : DETALHAMENTO DAS FUNDAÇÕES: BLOCOS E ESTACAS
V40, V41, V42, V43, V44, V45, V46, V47 E V48
ESTRUTURA DA CRECHE

PROPRIETÁRIO : PREFEITURA MUNICIPAL DE BARRA MANSA

LOCAL : RUA SÃO PEDRO, VISTA ALEGRE, BARRA MANSA, RJ

QUADRO DE ÁREAS

ZONA

USO

SELO DE APROVAÇÃO PMBM

COORDENADOR	AUTOR DO PROJETO	DESENHO	DATA
	Engº Arlenio Pereira de Oliveira CREA/RJ - 2018107043	Engº Arlenio Pereira de Oliveira CREA/RJ - 2018107043	09/03/2023
REVISÃO 1	REVISÃO 2	Nº ART/RRT:	
REVISÃO 3	REVISÃO 4	Nº DO PROJETO:	

CARIMBO

APROVAÇÃO SMPU
Engº Eros dos Santos

TODOS OS DIREITOS AUTORAIS RESERVADOS - NÃO PODE SER USADO, COPIADO OU CEDIDO SEM PRÉVIA AUTORIZAÇÃO