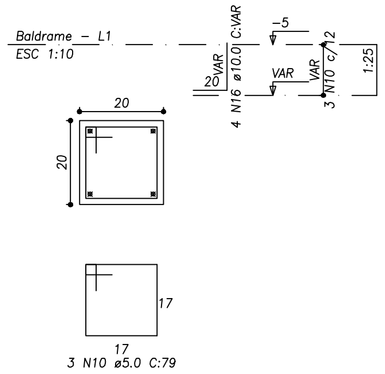
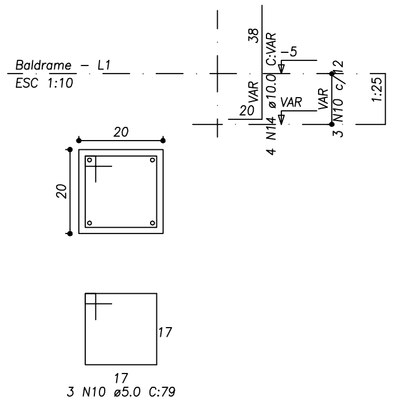
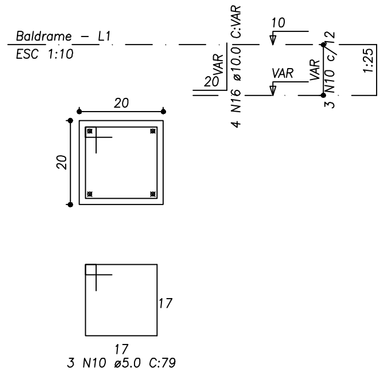
P20



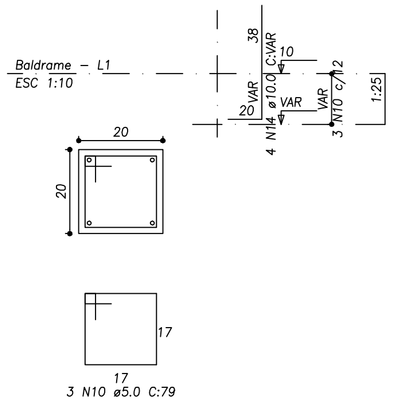
P38



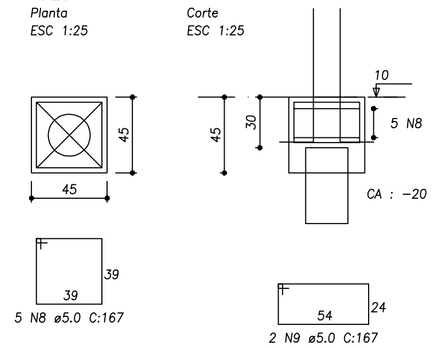
P19=P48



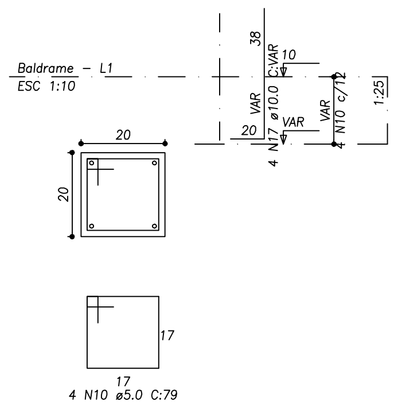
P1=P4=P18=P56



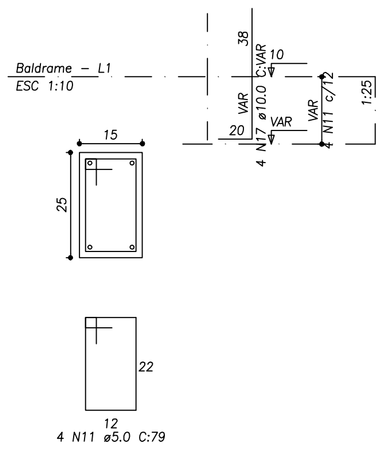
B1=B4=B18=B19=B20=B38=B48=B56
1ø25



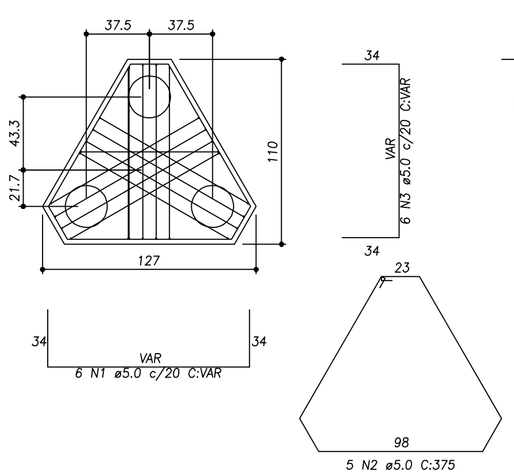
P25

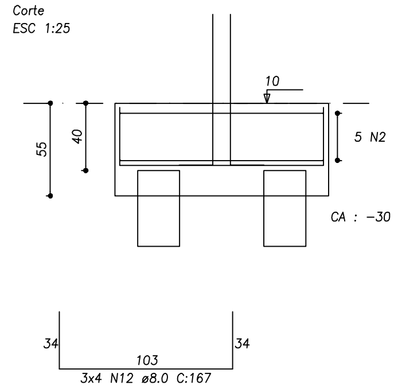


P30=P34



B25=B30=B34
3ø25





RELAÇÃO DO AÇO

3xB34
4xP1
2xP19
2xP30
45xB55
28xP2
P20
P38
8xB56
17xP6
P25

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	18	VAR	VAR
	2	5.0	15	375	5625
	3	5.0	18	VAR	VAR
	4	5.0	90	168	15120
	5	5.0	225	317	71325
	6	5.0	180	113	20340
	7	5.0	225	145	32625
	8	5.0	40	167	6680
	9	5.0	16	167	2672
	10	5.0	112	79	8848
	11	5.0	59	79	4661
50	12	8.0	36	167	6012
	13	8.0	180	167	30060
	14	10.0	20	VAR	VAR
	15	10.0	180	VAR	VAR
	16	10.0	12	VAR	VAR
	17	10.0	12	VAR	VAR

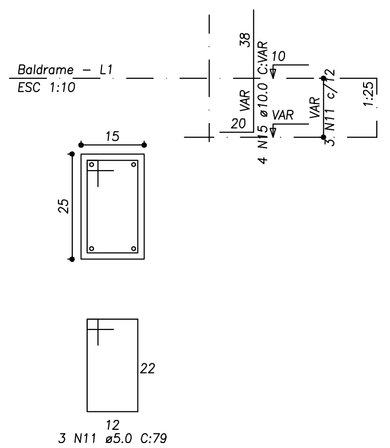
RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	8.0	361.5	157.1
	10.0	197.4	133.9
CA60	5.0	1746.5	295.8

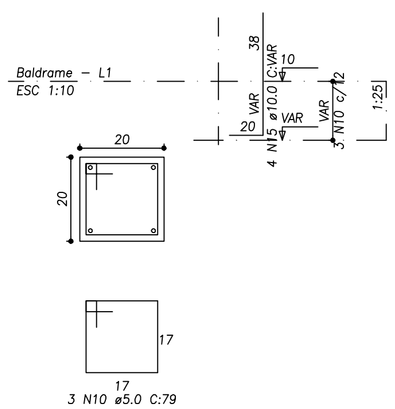
PESO TOTAL	
CA50	291.0
CA60	295.8

Vol. de concreto total (C–30) =14.37 m³
Área de forma total = 102.49 m²

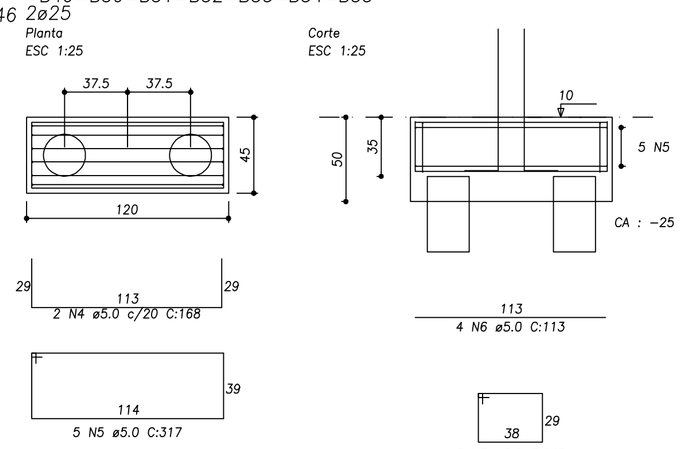
P6=P7=P10=P11=P28 =P29=P31=P33=P35=P36 =P37=P40=P41=P42=P43=P44=P45



P2=P3=P5=P8=P9=P12=P13 =P14=P15=P16=P17 =P21=P22=P23=P24=P26=P27=P32=P39=P46 =P47=P49=P50=P51=P52=P53=P54=P55



B2=B3=B5=B6=B7=B8=B9=B10=B11=B12=B13 =B14=B15=B16=B17=B21=B22=B23=B24=B26 =B27=B28=B29=B31=B32=B33=B35=B36=B37 =B39=B40=B41=B42=B43=B44=B45=B46=B47 =B49=B50=B51=B52=B53=B54=B55
2ø25



PROCESSO ADMINISTRATIVO: 1571-22.00/09-4
TERMO DE CONTRATO: 120/2009-CO

UBS - TIPO 3

SECRETARIA DE OBRAS PÚBLICAS
DEPARTAMENTO DE GESTÃO DE OBRAS DE PRÓPRIOS PÚBLICOS
CENTRO ADMINISTRATIVO FERNANDO FERRARI - AV. BORGES DE MEDEIROS N. 1501 - POA/RS

PROJETO DE INSTALAÇÕES HIDROSSANITÁRIAS	DIRETOR D.O.: ARQ. ODIR BACCARIN
RESPONSÁVEL TÉCNICO: ENG. MARCELO LUCIANO FRANCISCO DA CONCEIÇÃO CREA-RS 85.215	VIST. COORD. PROJ.: ENG. LUIZ F. S. DA SILVA
	DESENHO
OBRA: UBS - UNIDADE BÁSICA DE SAÚDE - TIPO 3	ÁREA
ENDEREÇO	MUNICÍPIO
PROJETO: PILARES	ASSUNTO: BLOCOS ESPERAS BALDRAME
ESCALA: INDICADA	DATA: FEVEREIRO - 2010
	Nº PRANCHA: EP-01
Nº ARQUIVO	