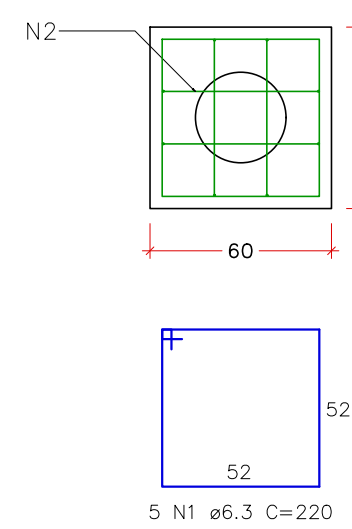
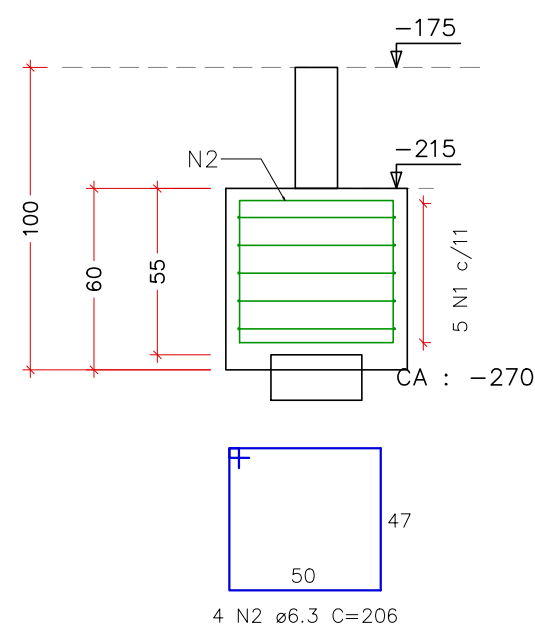


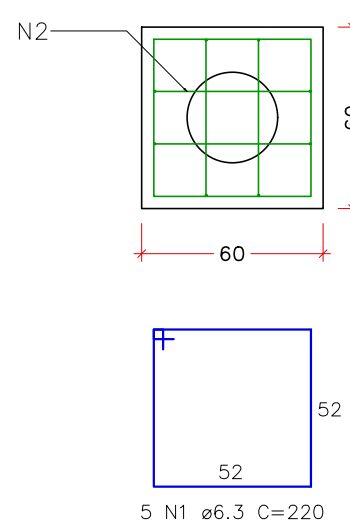
B1=B6
1xC30
PLANTA
ESCALA 1:25



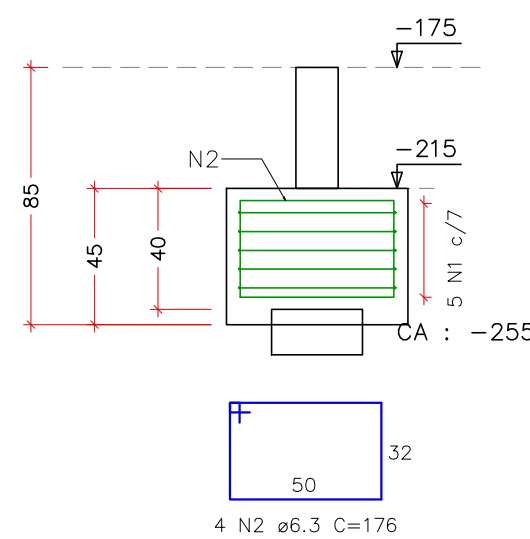
CORTE
ESCALA 1:25



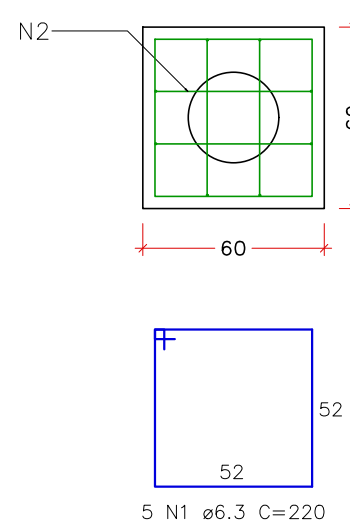
B2=B3=B4=B5=B8
1xC30
PLANTA
ESCALA 1:25



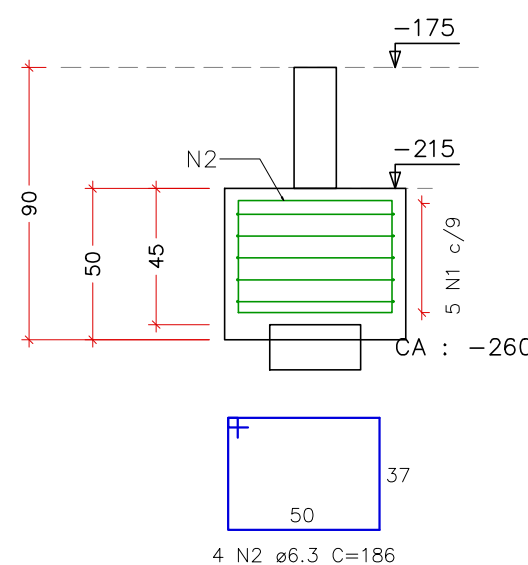
CORTE
ESCALA 1:25



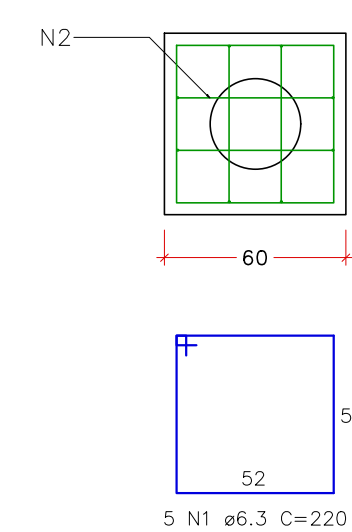
B7
1xC30
PLANTA
ESCALA 1:25



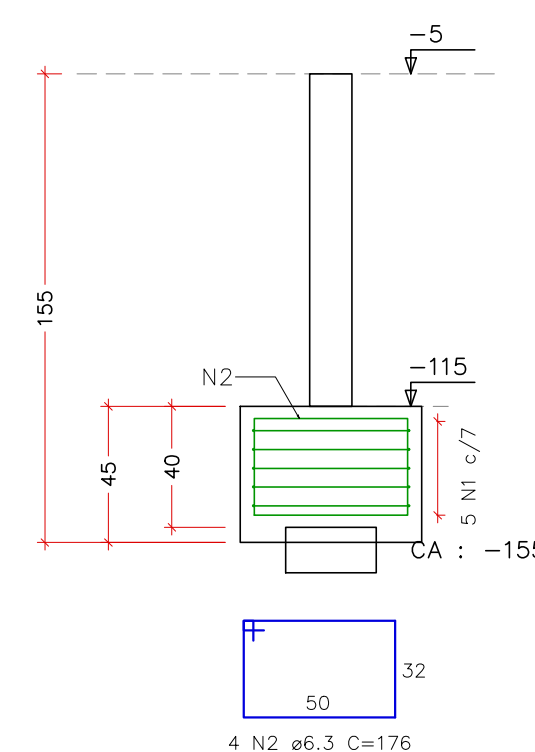
CORTE
ESCALA 1:25



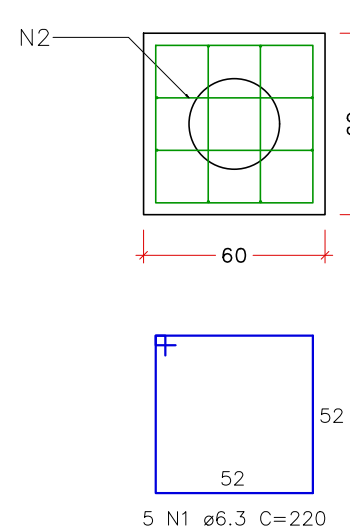
B9=B10=B11=B12
1xC30
PLANTA
ESCALA 1:25



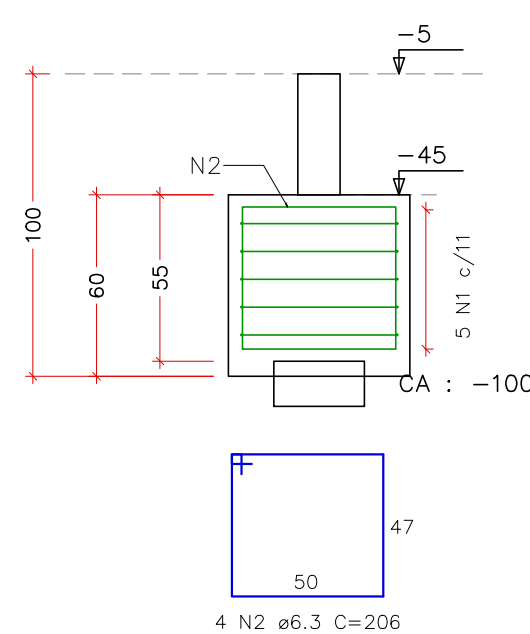
CORTE
ESCALA 1:25



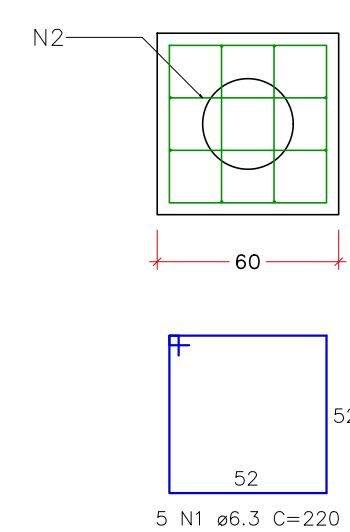
B13=B18
1xC30
PLANTA
ESCALA 1:25



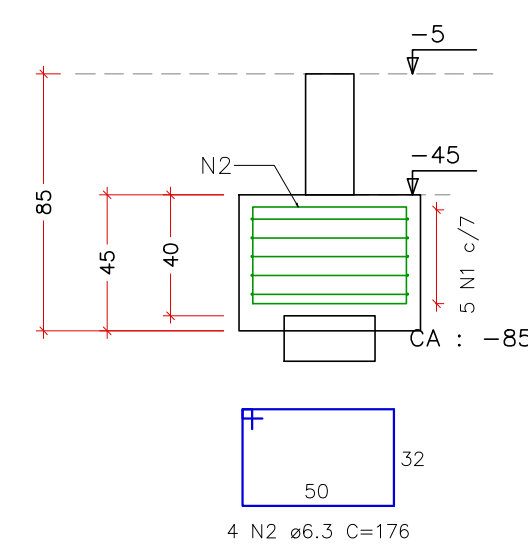
CORTE
ESCALA 1:25



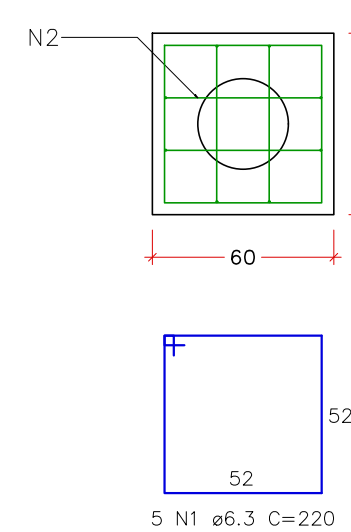
B14=B15=B16=B17
1xC30
PLANTA
ESCALA 1:25



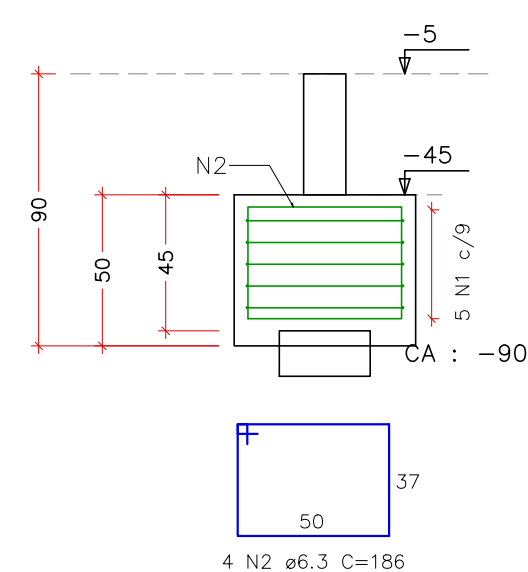
CORTE
ESCALA 1:25



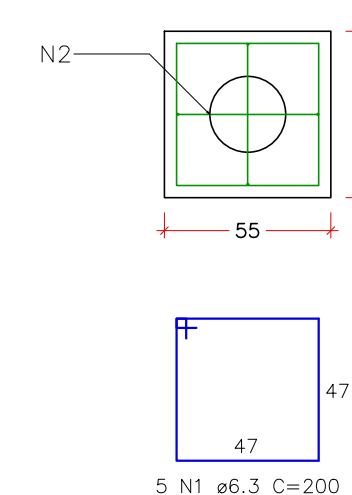
B19
1xC30
PLANTA
ESCALA 1:25



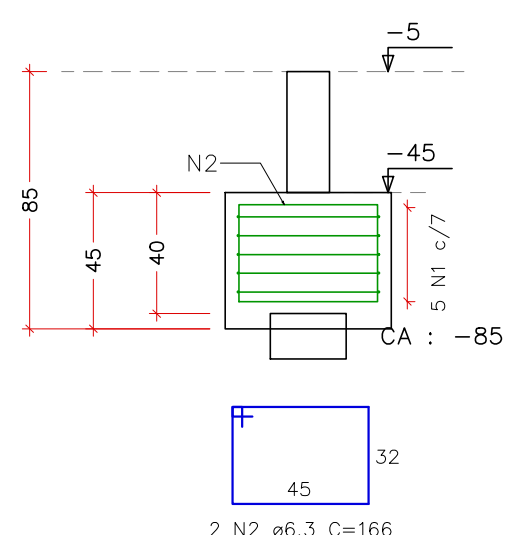
CORTE
ESCALA 1:25



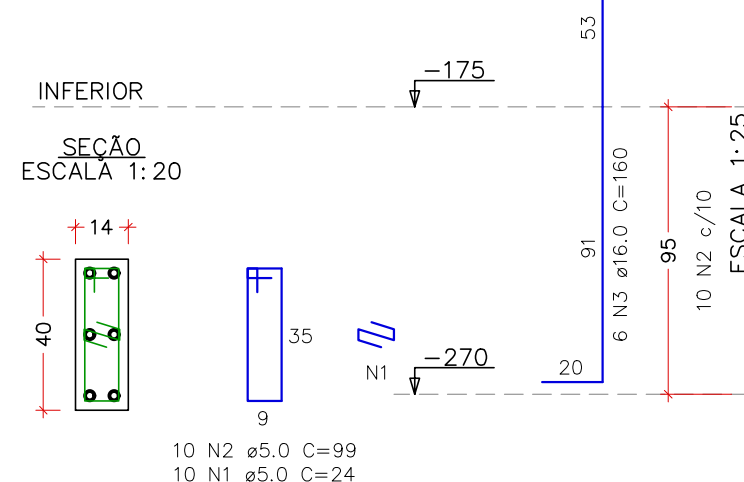
BP1=BP2=BP3=BP4
1xC25
PLANTA
ESCALA 1:25



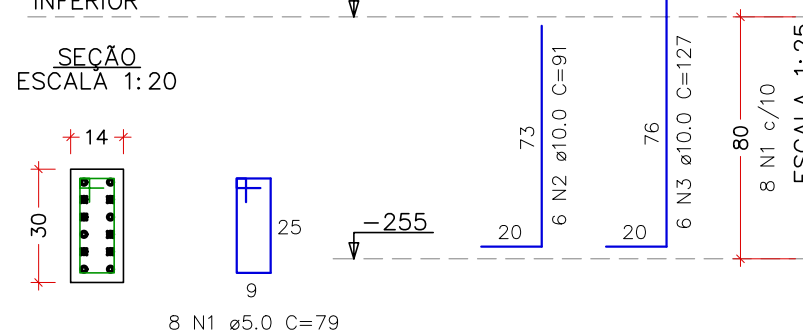
CORTE
ESCALA 1:25



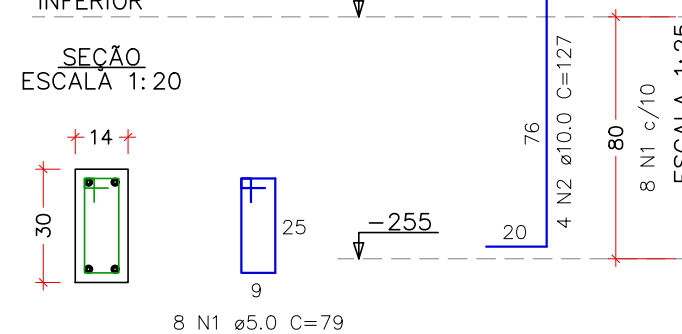
P1=P6



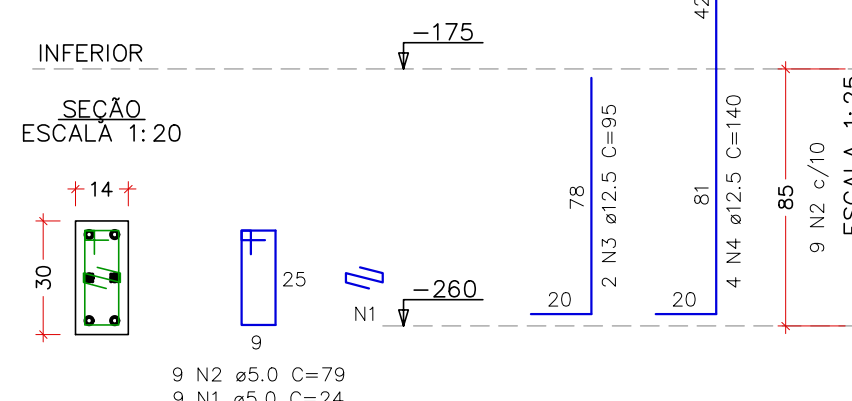
P2=P5



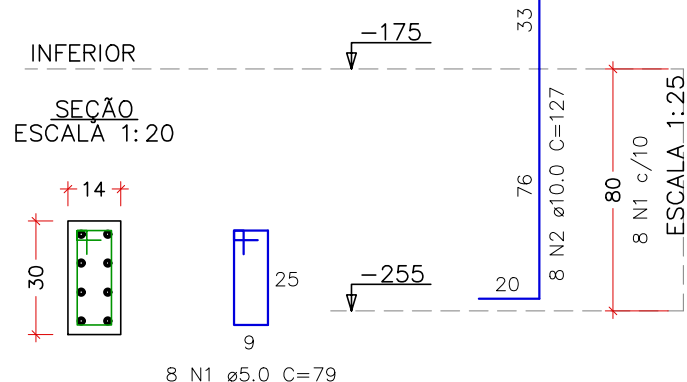
P3=P4



P7

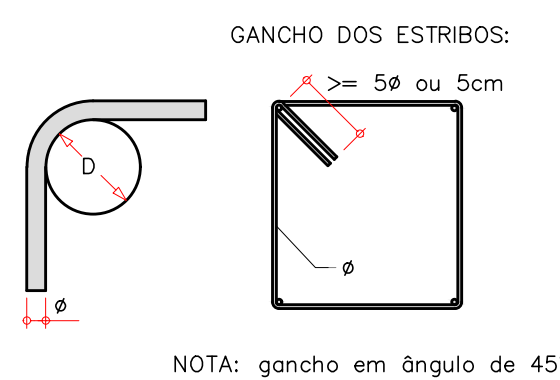


P8

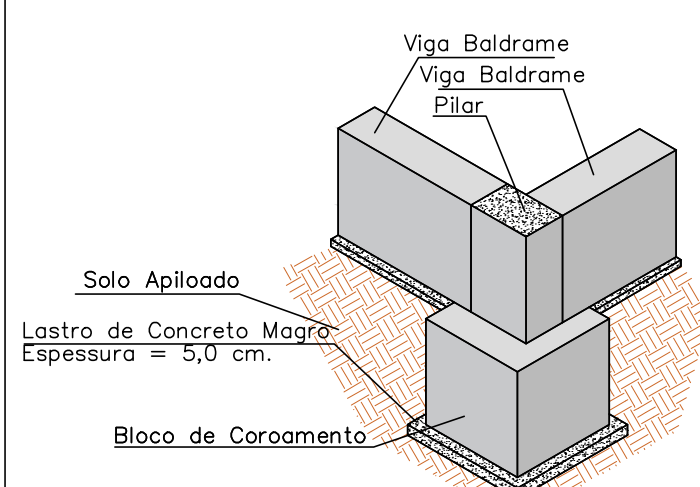


DETALHE DE DOBRAS
SEM ESCALA

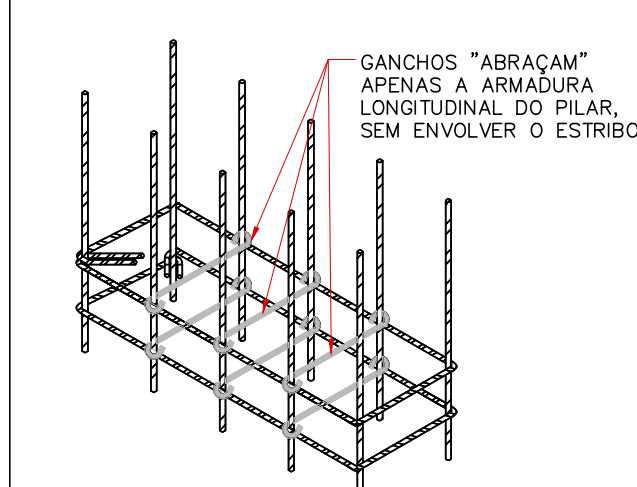
ESTRIBOS		BARRAS DE TRAÇÃO	
φ (mm)	D (mm)	φ (mm)	D (mm)
5,0	15,0	5,0	30,0
6,3	18,9	6,3	31,5
8,0	24,0	8,0	40,0
10,0	30,0	10,0	50,0
12,5	62,5	12,5	62,5
16,0	80,0	16,0	80,0
>= 20,0	8xφ	>= 20,0	8xφ



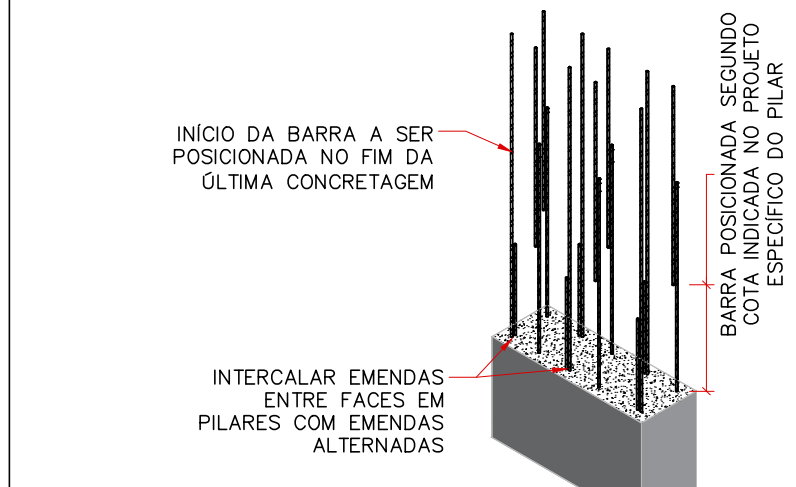
POSICIONAMENTO DOS BLOCOS
SEM ESCALA



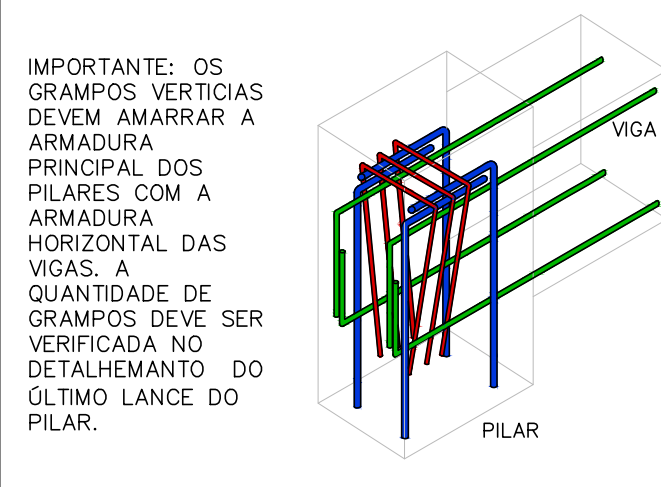
POSICIONAMENTO DOS GANCHOS
SEM ESCALA



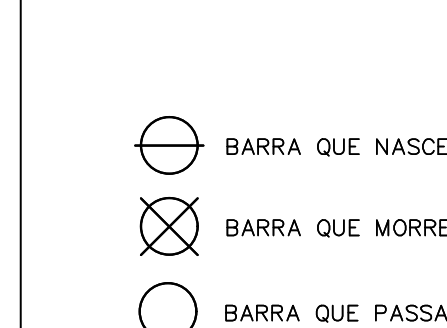
MONTAGEM DE ARMADURAS ALTERNADAS – PILARES
SEM ESCALA



GRAMPOS DE ANCORAGEM – PILAR
SEM ESCALA



LEGENDA DAS BARRAS – PILARES
SEM ESCALA



RELAÇÃO DO AÇO – PAV INFERIOR

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xB6	CA50	1	6,3	10	220	2200
B7	CA50	2	6,3	8	206	1648
	CA50	1	6,3	5	220	1100
5xB8	CA50	2	6,3	4	186	744
	CA50	1	6,3	25	220	5500
	CA50	2	6,3	20	176	3520

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6,3	147,1	39,6
PESO TOTAL (kg)			
CA50			39,6

VOLUME DE CONCRETO (C-30) = 1,39 m³
ÁREA DE FORMA = 9,48 m²

RELAÇÃO DO AÇO – PAV TERREO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
4xB12	CA50	1	6,3	20	220	4400
	CA50	2	6,3	16	176	2816
4xB17	CA50	1	6,3	20	220	4400
	CA50	2	6,3	16	176	2816
2xB18	CA50	1	6,3	10	220	2200
	CA50	2	6,3	8	206	1648
B19	CA50	1	6,3	5	220	1100
	CA50	2	6,3	4	186	744
4xBP4	CA50	1	6,3	20	200	4000
	CA50	2	6,3	8	166	1328

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6,3	254,5	68,5
PESO TOTAL (kg)			
CA50			68,5

VOLUME DE CONCRETO (C-30) = 2,40 m³
ÁREA DE FORMA = 16,68 m²

RELAÇÃO DO AÇO – PAV INFERIOR

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
2xP1	CA60	1	5,0	20	24	480
	CA60	2	5,0	20	99	1980
	CA50	3	16,0	12	160	1920
2xP2	CA60	1	5,0	16	79	1264
	CA50	2	10,0	12	91	1092
	CA50	3	10,0	12	127	1524
2xP3	CA60	1	5,0	16	79	1264
	CA50	2	10,0	8	127	1016
	CA60	1	5,0	9	24	216
P7	CA60	2	5,0	9	79	711
	CA50	3	12,5	2	95	190
	CA50	4	12,5	4	140	560
P8	CA60	1	5,0	8	79	632
	CA50	2	10,0	8	127	1016

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10,0	46,5	31,5
	12,5	7,5	7,9
	16,0	19,2	33,3
CA60	5,0	65,5	11,1
PESO TOTAL (kg)			
CA50			72,8
CA60			11,1

VOLUME DE CONCRETO (C-30) = 0,15 m³
ÁREA DE FORMA = 2,98 m²



Prefeitura Municipal
de Pouso Alegre

PROJETO



Rua Cel. Joaquim Francisco, 341, Bairro Varginha
CEP: 37501-052 – Itajubá / MG
Tel: (35) 2143 – 9087
www.docengenharia.com.br

COORDENAÇÃO

RAFAEL BARBOSA CARREIRA CAU: 00A155411-5
RESPONSÁVEL TÉCNICO E AUTOR

ALOISIO CAETANO FERREIRA CREA: MG-97.132/D

EMPREENDIMENTO

AMPLIAÇÃO DO CEIM MARILISA LOPES DE OLIVEIRA

ENDEREÇO
RUA LUÍS BARBATO, 336 – B. JARDIM AURELIANO
POUSO ALEGRE – MINAS GERAIS
ASSUNTO
PROJETO ESTRUTURAL EM CONCRETO ARMADO
BANHEIROS
DETALHAMENTO DOS BLOCOS DE COROAMENTO E PILARES

DISCIPLINA
ESTRUTURAL
FASE DO PROJETO
EXECUTIVO
FOLHA Nº
19/25

DATA INICIAL
17/07/2024
ESCALA
INDICADA
REVISÃO
R00
ARQUIVO
DAC-PMPA-MLO-PE-EST.DWG