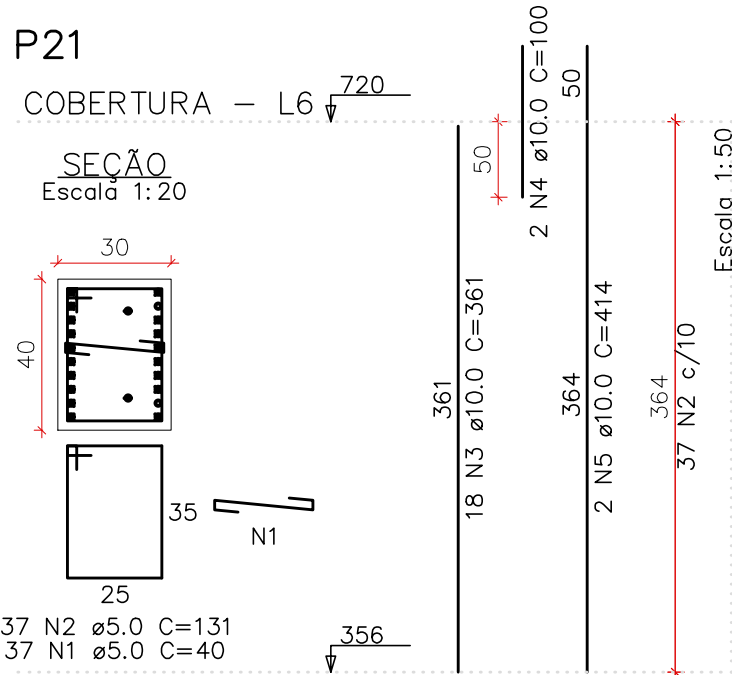
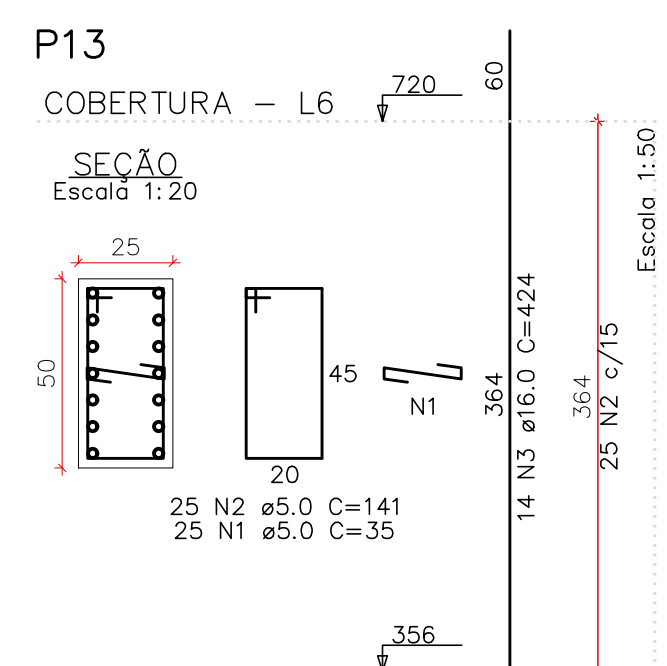
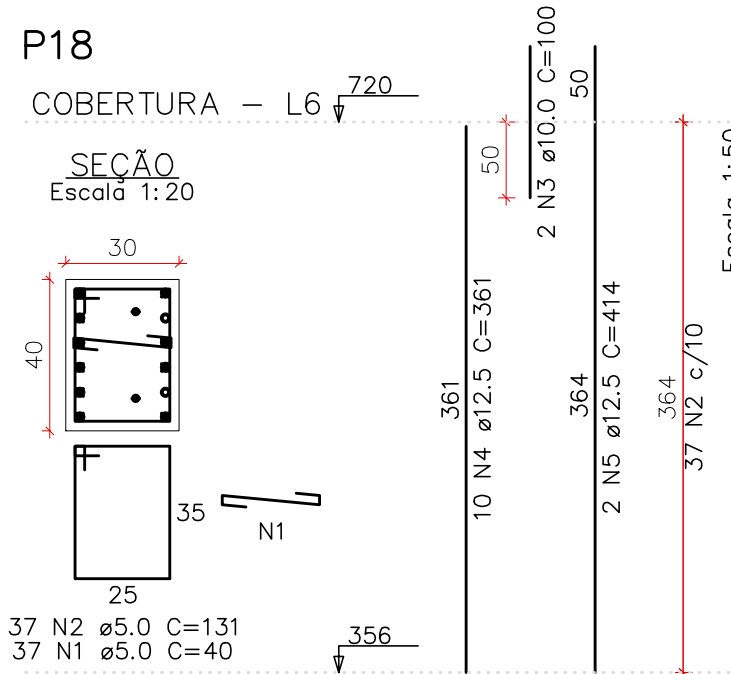
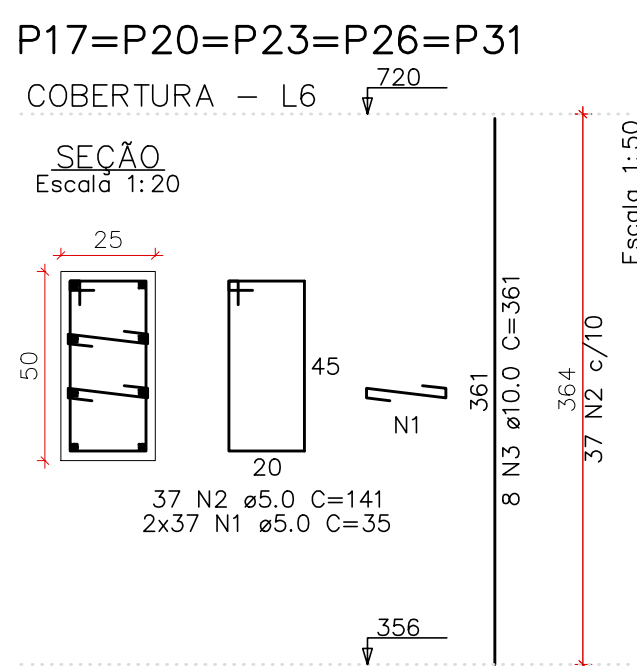
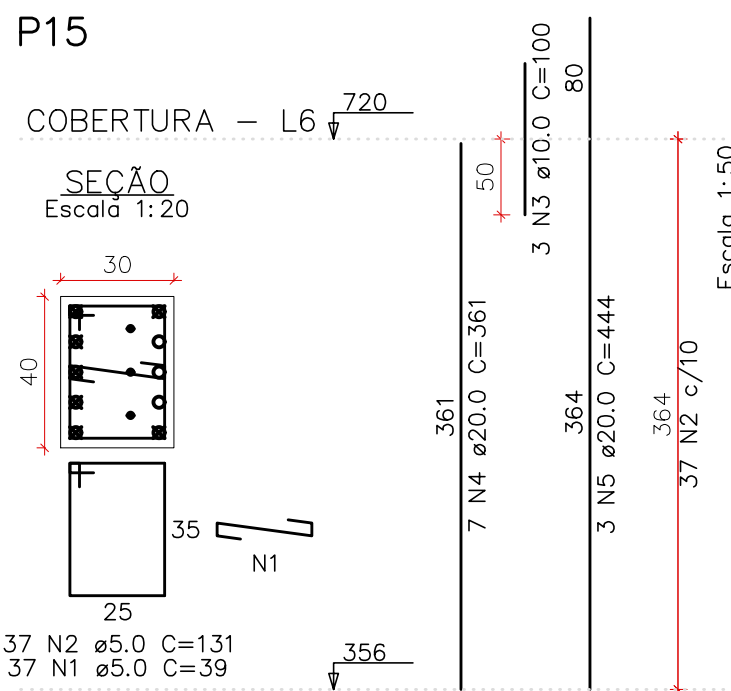
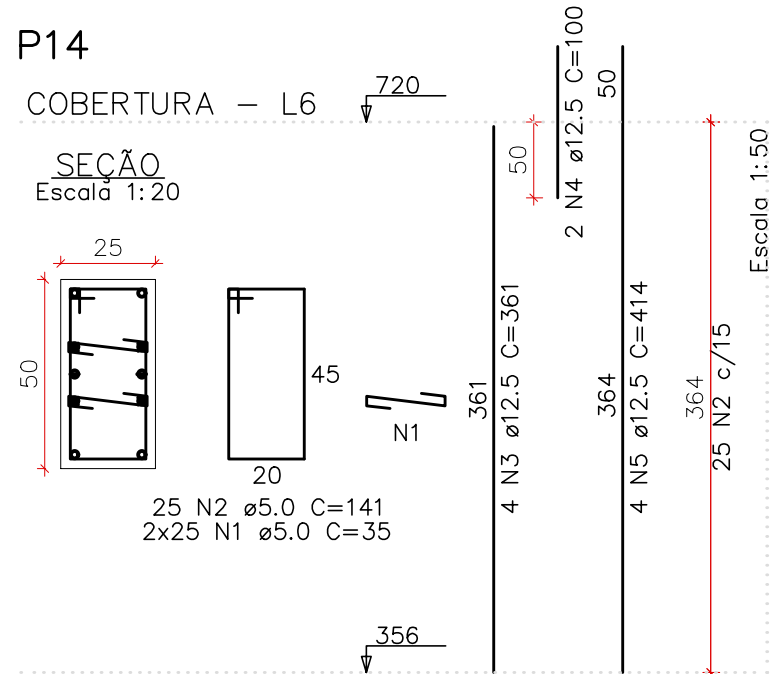
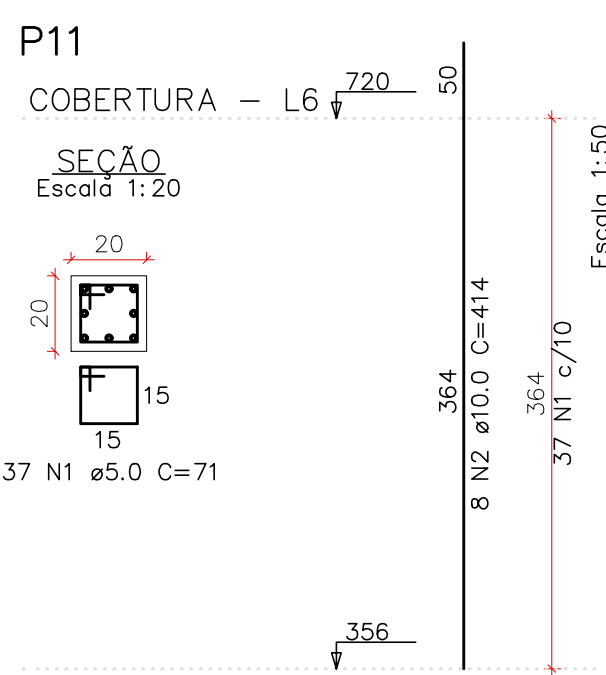
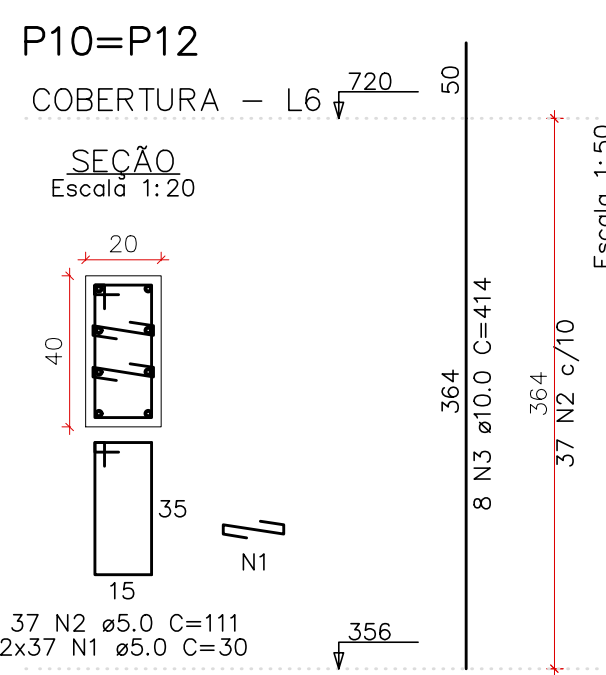
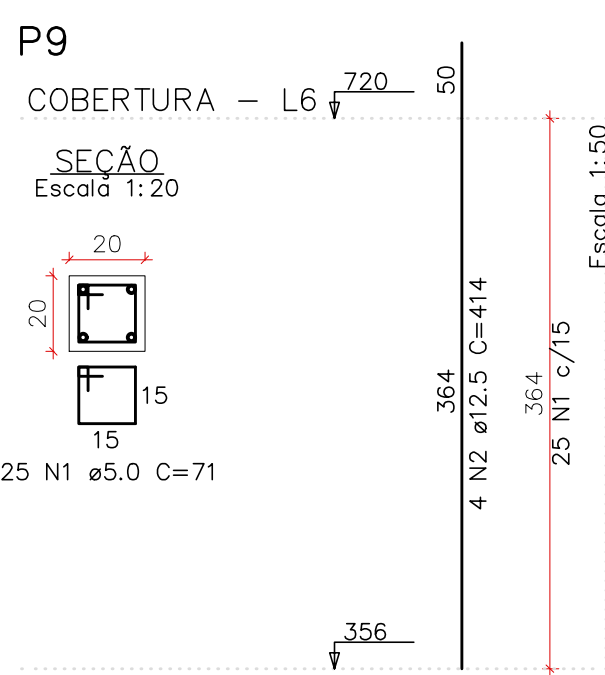
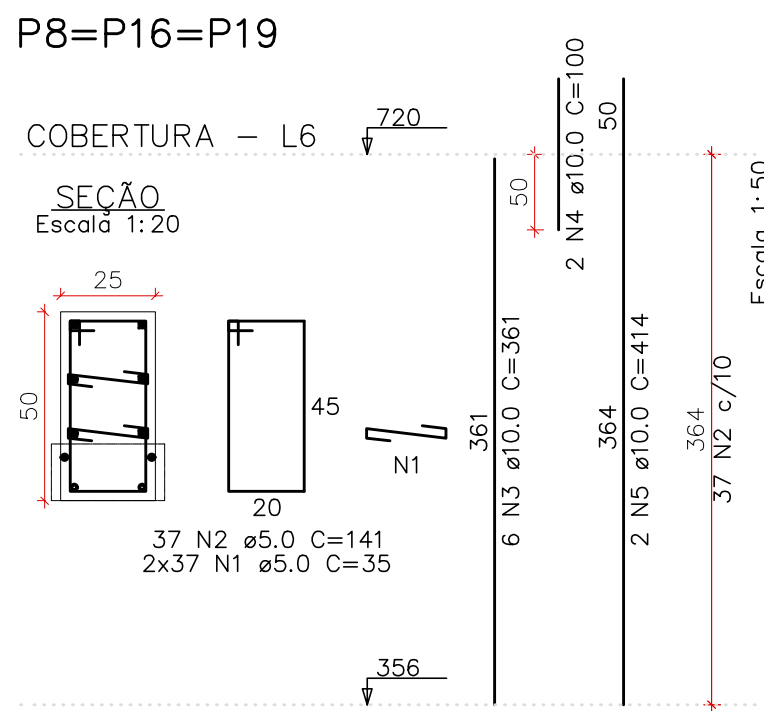
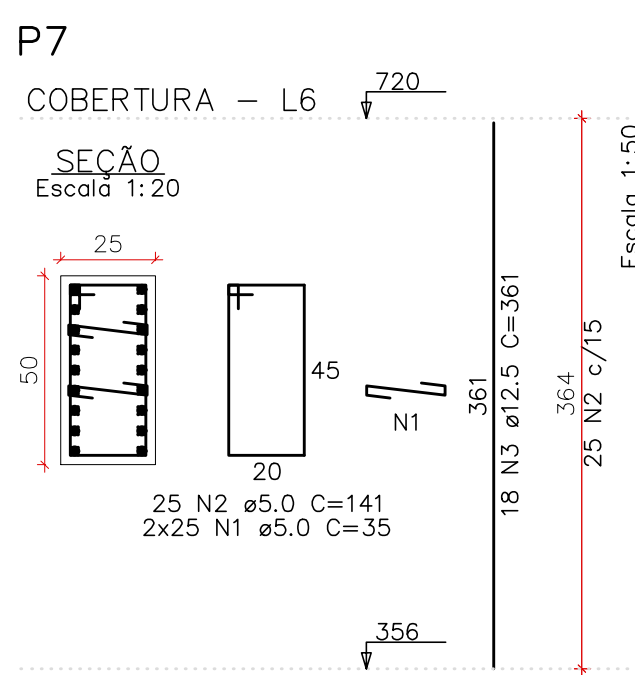
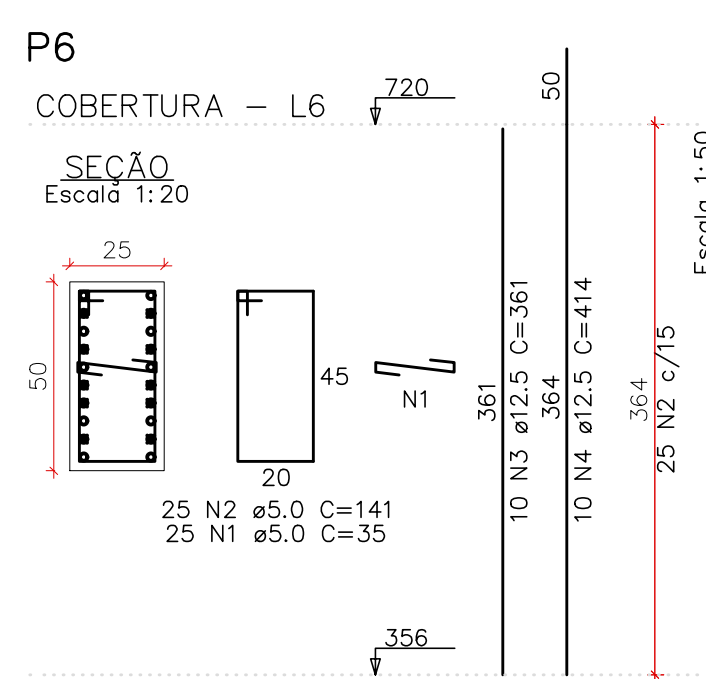
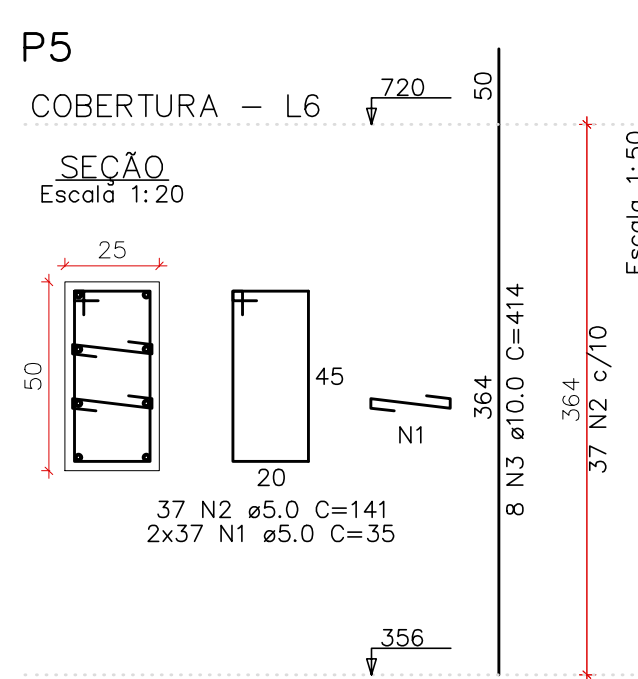
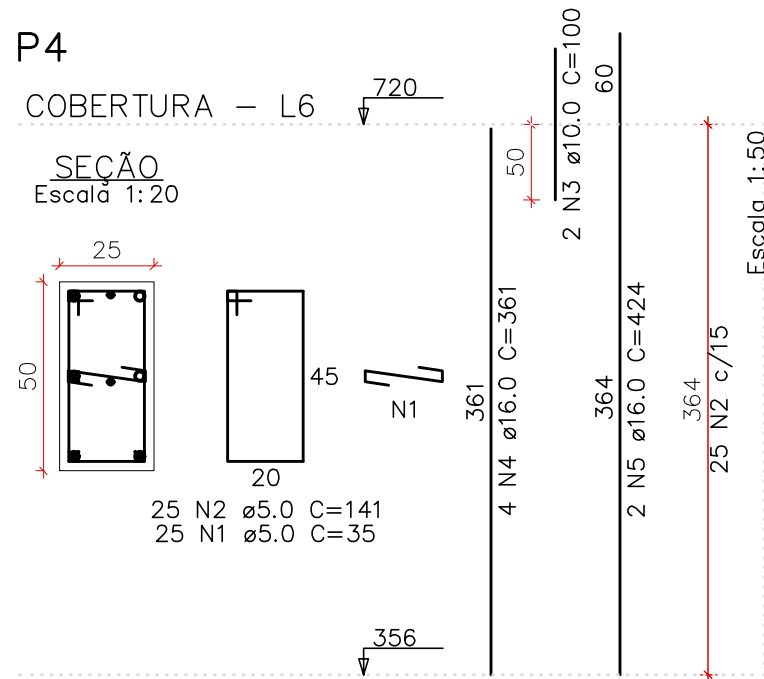
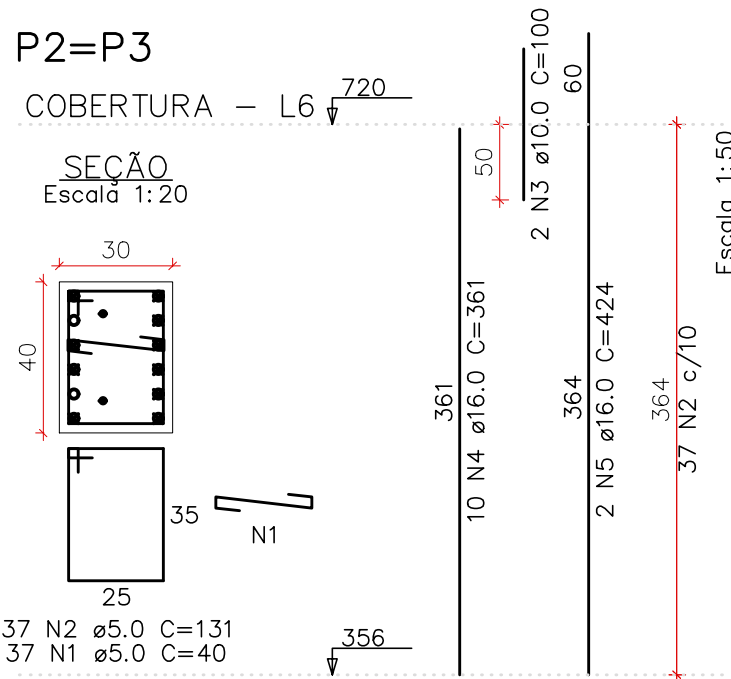
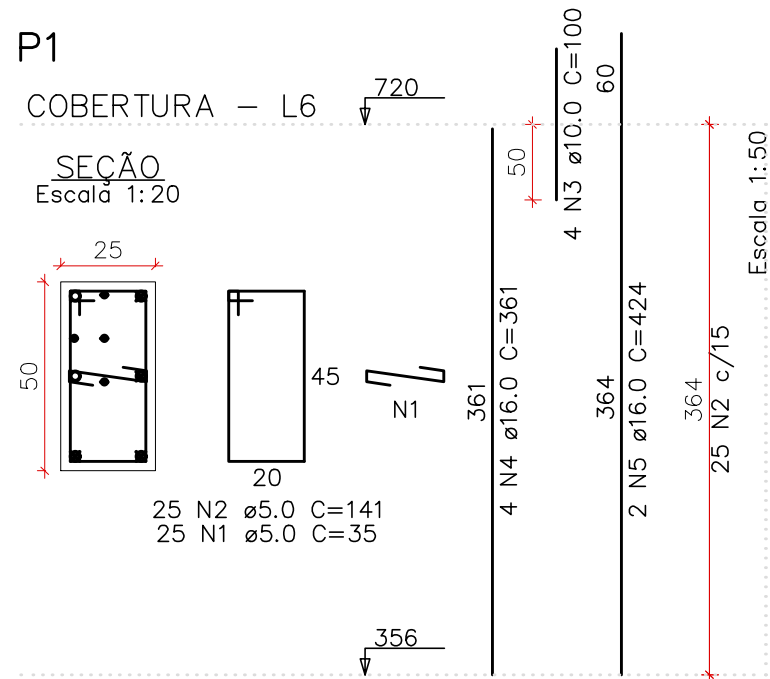


CONSTRUÇÃO DO HUB DE EMPREENDEDORISMO DE POUSO ALEGRE
ESCALA INDICADA

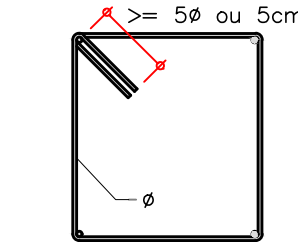


DETALHE DE DOBRAS
SEM ESCALA

DIÂMETRO MÍNIMO DOS PINOS DE DOBRAMENTO DAS
BARRAS:

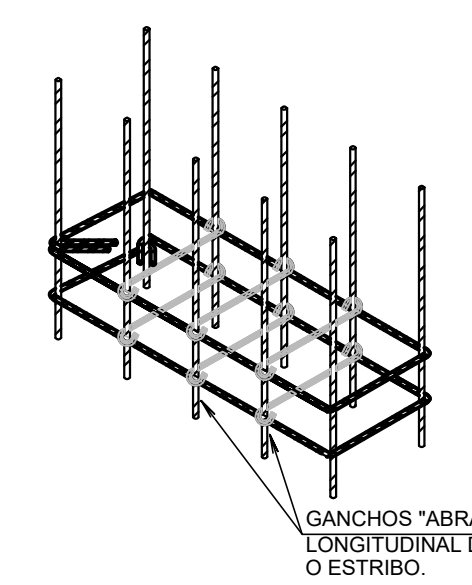
ESTRIBOS		BARRAS DE TRAÇÃO	
ø (mm)	D (mm)	ø (mm)	D (mm)
5,0	15,0	5,0	30,0
6,3	18,9	6,3	31,5
8,0	24,0	8,0	40,0
10,0	30,0	10,0	50,0
12,5	62,5	12,5	62,5
16,0	80,0	16,0	80,0
>= 20,0	8xø	>= 20,0	8xø

GANCHO DOS ESTRIBOS:

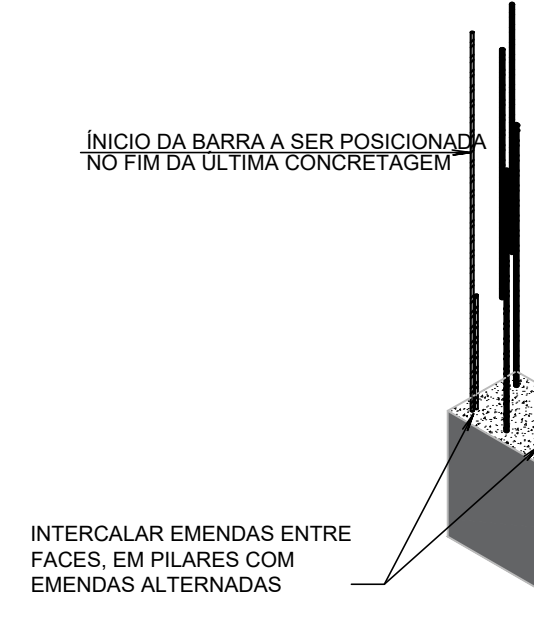


NOTA: gancho em ângulo de 45°

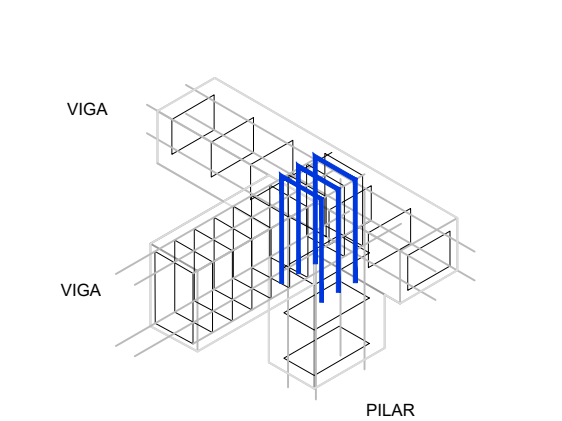
POSICIONAMENTO DOS
GANCHOS
SEM ESCALA



MONTAGEM DE
ARMADURAS ALTERNADAS
NOS PILARES
SEM ESCALA



GRAMPOS DE ANCORAGEM
SEM ESCALA



IMPORTANTE: OS GRAMPOS VERTICAIS DEVEM AMARRAR OS
FERROS PRINCIPAIS DOS PILARES COM OS FERROS HORIZONTAIS
DAS VIGAS. A QUANTIDADE DE GRAMPOS DEVE SER VERIFICADA
NO DETALHEMANTO DO ÚLTIMO LANCE DO PILAR.

LEGENDA DAS BARRAS DOS PILARES

- BARRA QUE NASCE
- BARRA QUE MORRE
- BARRA QUE PASSA

RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1	CA60	1	5,0	25	35	875
	CA50	2	5,0	25	141	3525
	CA50	3	10,0	4	100	400
	CA50	4	16,0	4	361	1444
	CA50	5	16,0	2	424	848
2xP2	CA60	1	5,0	74	50	2960
	CA60	2	5,0	74	131	9694
	CA50	3	10,0	4	100	400
	CA50	4	16,0	20	361	7220
	CA50	5	16,0	4	424	1696
P4	CA60	1	5,0	25	35	875
	CA60	2	5,0	25	141	3525
	CA50	3	10,0	2	100	200
	CA50	4	16,0	4	361	1444
	CA50	5	16,0	2	424	848
P5	CA60	1	5,0	74	50	2960
	CA60	2	5,0	37	141	5217
	CA50	3	10,0	8	414	3312
	CA60	1	5,0	25	35	875
	CA60	2	5,0	25	141	3525
P6	CA60	1	5,0	74	50	2960
	CA60	2	5,0	37	141	5217
	CA50	3	10,0	8	414	3312
	CA60	1	5,0	25	35	875
	CA60	2	5,0	25	141	3525
P7	CA60	1	5,0	74	50	2960
	CA60	2	5,0	37	141	5217
	CA50	3	10,0	8	414	3312
	CA60	1	5,0	25	35	875
	CA60	2	5,0	25	141	3525
3xP8	CA60	1	5,0	222	35	7770
	CA60	2	5,0	111	141	15651
	CA50	3	10,0	18	361	6498
	CA50	4	10,0	6	100	600
	CA50	5	10,0	6	414	2484
P9	CA60	1	5,0	25	71	1775
	CA50	2	12,5	4	414	1656
	CA60	1	5,0	148	30	4440
	CA60	2	5,0	74	111	8214
	CA50	3	10,0	16	414	6624
P11	CA60	1	5,0	37	71	2627
	CA50	2	10,0	8	414	3312
	CA60	1	5,0	25	35	875
	CA60	2	5,0	25	141	3525
	CA50	3	16,0	14	424	5936
P14	CA60	1	5,0	50	35	1750
	CA60	2	5,0	25	141	3525
	CA60	3	12,5	4	361	1444
	CA50	4	12,5	2	100	200
	CA50	5	12,5	4	414	1656
P15	CA60	1	5,0	37	39	1443
	CA60	2	5,0	37	131	4847
	CA50	3	10,0	3	100	300
	CA50	4	20,0	7	361	2527
	CA50	5	20,0	3	444	1332
5xP17	CA60	1	5,0	370	35	12950
	CA60	2	5,0	185	141	26085
	CA50	3	10,0	40	361	14440
	CA60	1	5,0	37	40	1480
	CA60	2	5,0	37	131	4847
P18	CA50	3	10,0	2	100	200
	CA50	4	12,5	10	361	3610
	CA50	5	12,5	2	414	828
	CA60	1	5,0	37	40	1480
	CA60	2	5,0	37	131	4847
P21	CA50	3	10,0	18	361	6498
	CA50	4	10,0	2	100	200
	CA50	5	10,0	2	414	828
	CA60	1	5,0	37	40	1480
	CA60	2	5,0	37	131	4847

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10,0	463	43	314
CA50	12,5	236,4	22	250,5
CA50	16,0	194,4	18	337,4
CA50	20,0	38,6	4	104,7
CA60	5,0	1470,7	135	249,3

PESO TOTAL (kg)
CA50 1006,6
CA60 249,3

Volume de concreto (C=30) = 9,88 m³
Área de forma = 121,94 m²

REV. 01	04/08/23	ALTERAÇÃO DE LOCAÇÃO DA EDIFICAÇÃO	DAC
REV. 00	30/05/23	EMIÇÃO INICIAL	DAC
REVISÃO	DATA:	DESCRIÇÃO:	RESP.:
CLIENTE			
 Prefeitura Municipal de Pouso Alegre			
PROJETO		COORDENAÇÃO	
 DAC Engenharia		ALOISIO CAETANO FERREIRA	
Rua Miguel Vianna, nº 61, 2º Andar Bairro Morro Chic CEP: 37500-080 - Itajubá / MG Tel: (35) 3623-8846 www.dacengenharia.com.br		RESPONSÁVEL TÉCNICO E AUTOR	
		ENG. CIVIL FLÁVIA BARBOSA CREA: MG-181.842/D	
EMPREENHAMENTO			
HUB DE EMPREENDEDORISMO DE POUSO ALEGRE			DISCIPLINA
ENDEREÇO			ESTRUTURAL
RUA GERALDO COUTINHO DE SOUZA, JARDIM VERGANI			FASE DO PROJETO
POUSO ALEGRE - MINAS GERAIS			EXECUTIVO
ASSUNTO			FOLHA Nº
PROJETO ESTRUTURAL EM CONCRETO ARMADO			18/49
DETALHAMENTO DOS PILARES DO PAV. COBERTURA			
LISTA DE MATERIAIS			
DATA INICIAL	ESCALA	REVISÃO	ARQUIVO
30/05/2023	INDICADA	R01	DAC-PMPA-HUB-PE-EST-R01.dwg