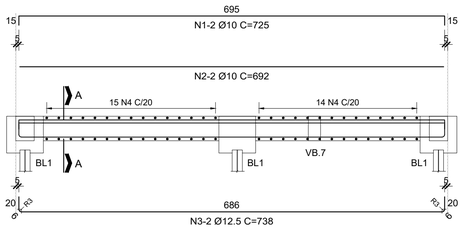
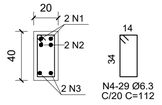
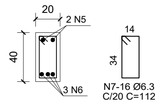
VB.1 (20/40)
ESC. 1:50



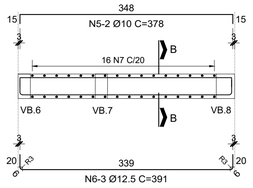
CORTE A-A
ESC.1:25



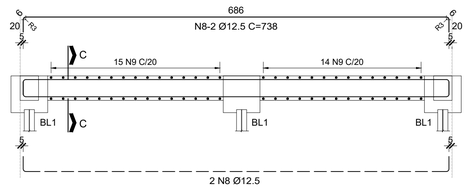
CORTE B-B
ESC.1:25



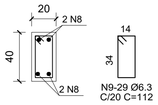
VB.2 (20/40)
ESC. 1:50



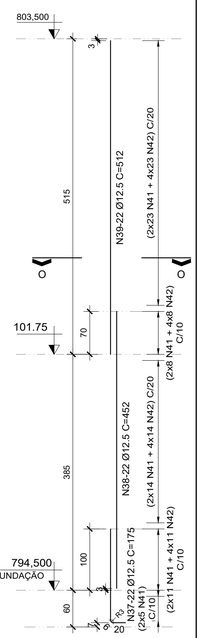
VB.3 (20/40)
ESC. 1:50



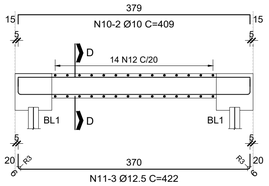
CORTE C-C
ESC.1:25



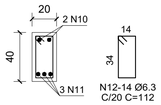
PAR.01 (36x196)
ESC. 1:50



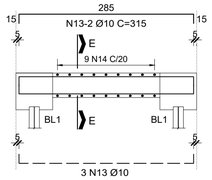
VB.4 (20/40)
ESC. 1:50



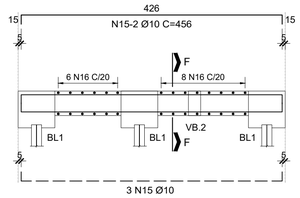
CORTE D-D
ESC.1:25



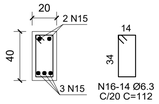
VB.5 (30/40)
ESC. 1:50



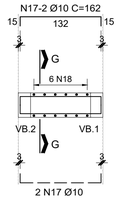
VB.6 (20/40)
ESC. 1:50



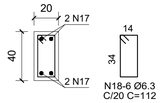
CORTE F-F
ESC.1:25



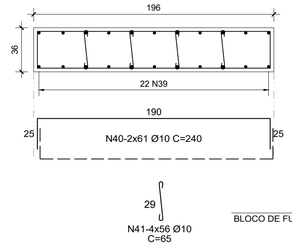
VB.7 (20/40)
ESC. 1:50



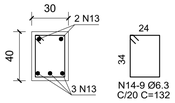
CORTE G-G
ESC.1:25



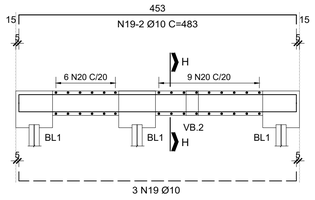
CORTE O-O
ESC. 1:25



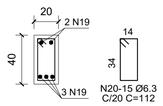
CORTE E-E
ESC.1:25



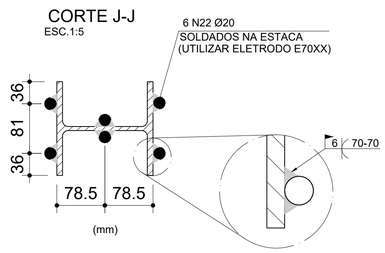
VB.8 (20/40)
ESC. 1:50



CORTE H-H
ESC.1:25

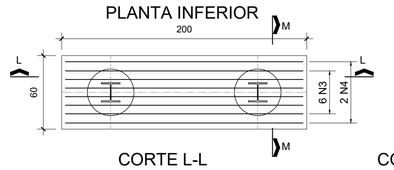


CORTE J-J
ESC.1:5

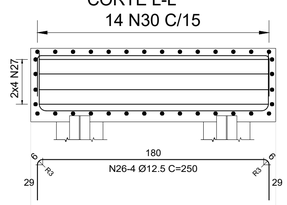


BLOCO BL2 (2x)
ESC.1:25

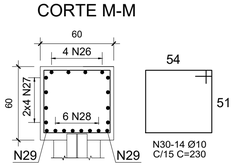
PLANTA INFERIOR



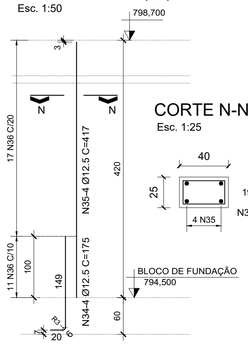
CORTE L-L



CORTE M-M



P1 a P4 - 25x40 (4x)
Esc. 1:50



CORTE N-N
Esc. 1:25

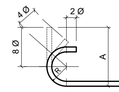
TABELA DE FERROS

N	Ø (mm)	Q	COMPRIMENTOS UNIT.(cm)	COMPRIMENTOS TOTAL(cm)
1	10	2	725	1450
2	10	2	692	1384
3	12.5	2	738	1476
4	6.3	29	112	3248
5	10	2	378	756
6	12.5	3	391	1173
7	6.3	16	112	1792
8	12.5	4	738	2952
9	6.3	29	112	3248
10	10	2	409	818
11	12.5	3	422	1266
12	6.3	14	112	1568
13	10	5	315	1575
14	6.3	9	132	1188
15	10	5	456	2280
16	6.3	14	112	1568
17	10	4	162	648
18	6.3	6	112	672
19	10	5	483	2415
20	6.3	15	112	1680
21	12.5	60	101	6060
22	20	72	96	6912
23	10	12	452	5424
24	10	40	236	9440
25	10	160	142	22720
26	12.5	8	250	2000
27	10	16	253	4048
28	16	12	274	3288
29	12.5	4	270	1080
30	10	28	230	6440
31	10	22	974	21428
32	12.5	33	745	24585
33	6.3	6	CORRIDO	13440
34	12.5	16	175	2800
35	12.5	16	417	6672
36	8	112	122	13664
37	12.5	22	175	3850
38	12.5	22	452	9944
39	12.5	22	512	11264
40	10	122	240	29280
41	10	224	65	14560

RESUMO CA-50

Ø (mm)	kg/m	COMPR.(m)	PESO (kg)
6.3	0.25	284.04	71
8	0.40	136.64	55
10	0.63	1246.66	785
12.5	1.00	751.22	751
16	1.60	32.88	53
20	2.50	69.12	173
		TOTAL:	1888

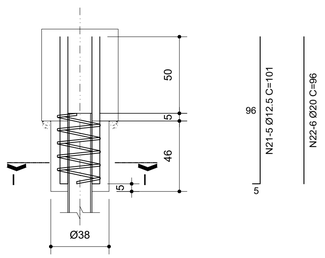
TABELA PARA DOBRAMENTO PADRÃO DOS GANCHOS



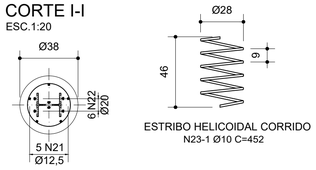
QUANDO O DOBRAMENTO SAIR DO PADRÃO SERÃO INDICADOS NO DESENHO O COMPRIMENTO (A) E / OU RAIO (R)

Ø	RAIO CA-50
< 20	2,5 Ø

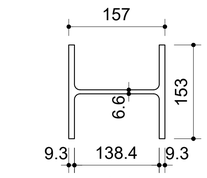
DETALHE DO PILARETE DA ESTACA METÁLICA W150x29,8 (BLOCO h=60cm) - 12x
ESC.1:20



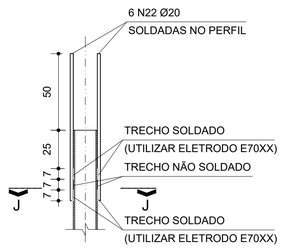
CORTE I-I
ESC.1:20



PERFIL METÁLICO W150x29,8
ESC.1:5

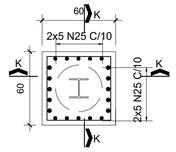


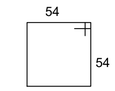
ESTACAS PREPARADAS NO CANTEIRO - ELEVAÇÃO
ESC.1:20



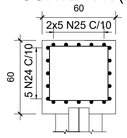
BLOCO BL1 (8x)
ESC.1:25

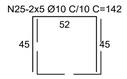
PLANTA

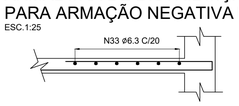




CORTE K-K (2x)





ARMADURA DE DISTRIBUIÇÃO PARA ARMAÇÃO NEGATIVA DE BORDA
ESC.1:25

ARMAÇÃO LAJE SUPERIOR L101 - NÍVEL 798,120 (h=12)
ESC. 1:50

SEQUÊNCIA CONSTRUTIVA DO PILARETE DA CABEÇA DO PERFIL METÁLICO:

1 - CRAVAR AS ESTACAS METÁLICAS.
2 - ESCAVAR TERRENO ATÉ COTA INFERIOR DAS FORMAS DOS PILARETES
3 - EXECUTAR A ARMADURA DE FRETAGEM DAS ESTACAS.
4 - POSICIONAR AS FORMAS DOS PILARETES.
5 - CONCRETAR O INTERIOR DAS FORMAS
6 - REATERRAR ENTRE PILARETES ATÉ A BASE DO BLOCO DE COROAMENTO DAS ESTACAS COM SOLO COMPACTADO

NOTAS:

1 - MEDIDAS EM CENTÍMETRO, EXCETO INDICAÇÃO CONTRÁRIA.
2- MATERIAIS:
- CONCRETO ESTRUTURAL fck = 30 MPa (FATOR A/C<0,5)
- BARRAS DE AÇO CA50
- AÇO PERFIL A572 gr 50
- ELETRODO E70XX
3 - COBRIMENTO DAS ARMADURAS:
c = 2,5 cm PARA LAJES
c = 3,0 cm PARA AS DEMAIS ESTRUTURAS
4 - VERIFICAR TODAS AS MEDIDAS E NÍVEIS NA OBRA.
5 - O CONTROLE TECNOLÓGICO PARA GARANTIA DA QUALIDADE DOS MATERIAIS E SERVIÇOS DEVERÃO SEGUIR TODAS AS RECOMENDAÇÕES CONSTANTES DAS SEGUINTES NORMAS DA ABNT: NBR12655, NBR7480, NBR 7481, NBR 7482 E NBR 7483.

Nº	MODIFICAÇÕES	APROVAÇÃO	DATA	APROVAÇÃO	DATA
		AUTOR DO PROJETO		UFABC	
2	ATENDIMENTO COMENTÁRIOS	PAULO FACCIO	30.08.2017		
1	EMISSÃO INICIAL	PAULO FACCIO	31.05.2017		

OBSERVAÇÕES

DESENHOS DE REFERÊNCIA

N.	APROVAÇÃO	DATA
	UFABC	

NOTAS

	APROVAÇÃO	DATA
	AUTOR DO PROJETO	

CSB-PE-EST-GUA-MCL-ARM - MEMÓRIA DE CÁLCULO

FACCIO ARQUITETURA
RUA MONTE APRAZÍVEL, 185 – VILA NOVA CONCEIÇÃO – SÃO PAULO – SP
CEP: 04513-030 – FONE: (11) 3045-7500
E-MAIL: PAULO@FACCIOARQUITETURA.COM.BR – SITE: WWW.FACCIOARQUITETURA.COM.BR

RESPONSÁVEL TÉCNICO: PAULO FACCIO NETO — CAU: A815330
PROJETISTA: DANIEL FAUSTO DE MENEZES — CAU: A50903-5
ASSINATURA:
CAU: 17338-0 — DATA: 31.05.2017
Nº PROJETO:

Universidade Federal do ABC
CÂMPUS SÃO BERNARDO DO CAMPO
UFABC

ETAPA – ÁREA TÉCNICA: PROJETO EXECUTIVO – ESTRUTURA
PE-EST
CONTEÚDO: ARMAÇÃO – VIGAS BALDRAME E BLOCOS DE FUNDAÇÃO
FOLHA: 02 / 02
LOCALIZAÇÃO – IDENTIFICAÇÃO: GUARITA
ARQUIVO ELETRÔNICO: CSB-PE-EST-GUA-ARM-101-02-R02
REVISÃO DA FOLHA: R02
ESCALA: INDIC.
DATA: 30/08/17