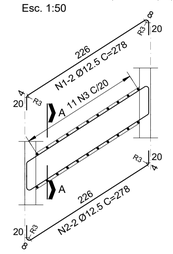
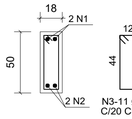
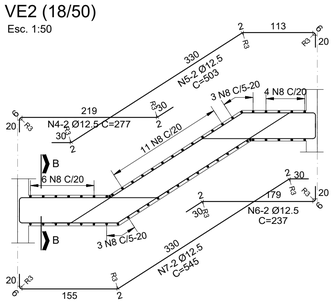
VE1=VE11 (18/50) (2x)
Esc. 1:50



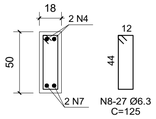
CORTE A-A
ESC.1:25



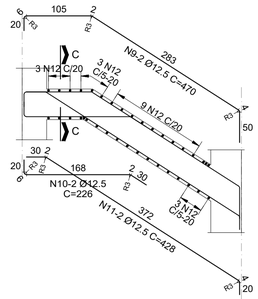
VE2 (18/50)
Esc. 1:50



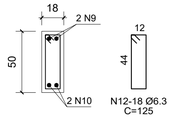
CORTE B-B
ESC.1:25



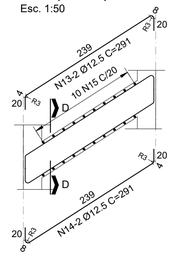
VE3 (18/50)
Esc. 1:50



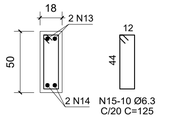
CORTE C-C
ESC.1:25



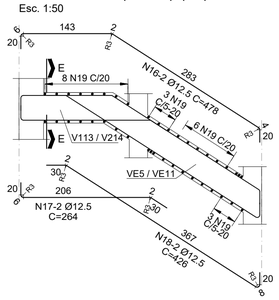
VE4 (18/50)
Esc. 1:50



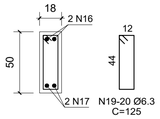
CORTE D-D
ESC.1:25



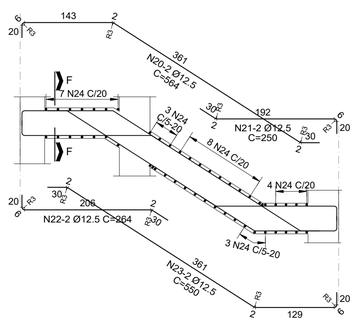
V113 = V214 (18/50) (2x)
Esc. 1:50



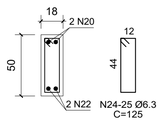
CORTE E-E
ESC.1:25



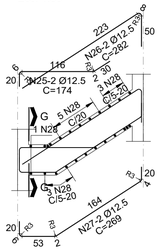
VE5=VE9 (18/50) (2x)
Esc. 1:50



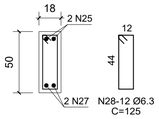
CORTE F-F
ESC.1:25



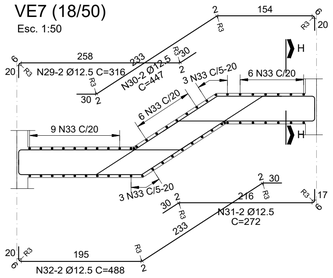
VE6 (18/50)
Esc. 1:50



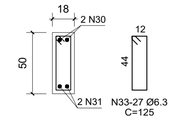
CORTE G-G
ESC.1:25



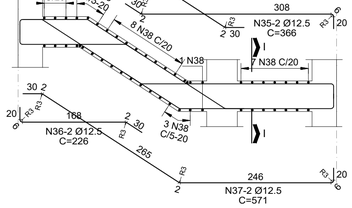
VE7 (18/50)
Esc. 1:50



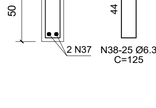
CORTE H-H
ESC.1:25



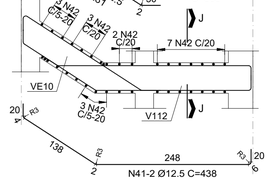
VE8 (18/50)
Esc. 1:50



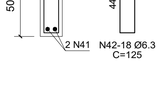
CORTE I-I
ESC.1:25



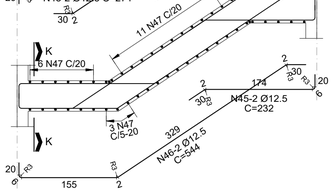
V112 (18/50)
Esc. 1:50



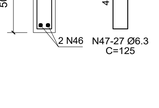
CORTE J-J
ESC.1:25



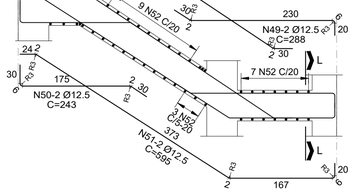
VE12 (18/50)
Esc. 1:50



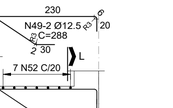
CORTE K-K
ESC.1:25



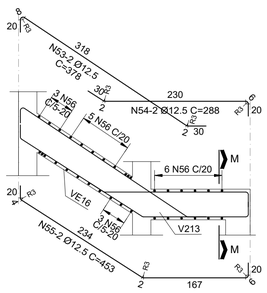
VE10 (18/50)
Esc. 1:50



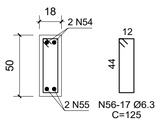
CORTE L-L
ESC.1:25



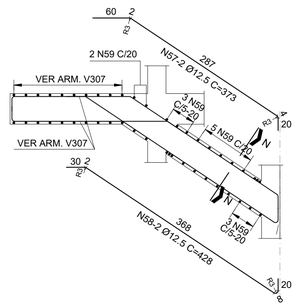
V213 (18/50)
Esc. 1:50



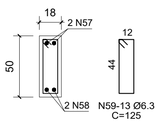
CORTE M-M
ESC.1:25



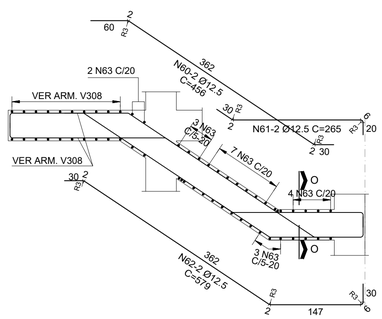
VE13 (18/50)
Esc. 1:50



CORTE N-N
ESC.1:25



VE14 (18/50)
Esc. 1:50



CORTE O-O
ESC.1:25

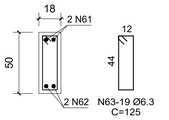


TABELA DE FERROS

N	Ø (mm)	Q	COMPRIMENTOS UNIT.(cm)	COMPRIMENTOS TOTAL(cm)
1	12.5	4	278	1112
2	12.5	4	278	1112
3	6.3	22	125	2750
4	12.5	2	277	554
5	12.5	2	503	1006
6	12.5	2	237	474
7	12.5	2	545	1090
8	6.3	27	125	3375
9	12.5	2	470	940
10	12.5	2	226	452
11	12.5	2	428	856
12	6.3	18	125	2250
13	12.5	2	291	582
14	12.5	2	291	582
15	6.3	10	125	1250
16	12.5	4	478	1912
17	12.5	4	264	1056
18	12.5	4	426	1704
19	6.3	40	125	5000
20	12.5	4	564	2256
21	12.5	4	250	1000
22	12.5	4	264	1056
23	12.5	4	550	2200
24	6.3	50	125	6250
25	12.5	2	174	348
26	12.5	2	282	564
27	12.5	2	269	538
28	6.3	12	125	1500
29	12.5	2	316	632
30	12.5	2	447	894
31	12.5	2	272	544
32	12.5	2	488	976
33	6.3	27	125	3375
34	12.5	2	430	860
35	12.5	2	366	732
36	12.5	2	226	452
37	12.5	2	571	1142
38	6.3	25	125	3125
39	12.5	2	281	562
40	12.5	2	368	736
41	12.5	2	438	876
42	6.3	18	125	2250
43	12.5	2	274	548
44	12.5	2	503	1006
45	12.5	2	232	464
46	12.5	2	544	1088
47	6.3	27	125	3375
48	12.5	2	537	1074
49	12.5	2	288	576
50	12.5	2	243	486
51	12.5	2	595	1190
52	6.3	24	125	3000
53	12.5	2	378	756
54	12.5	2	288	576
55	12.5	2	453	906
56	6.3	17	125	2125
57	12.5	2	373	746
58	12.5	2	428	856
59	6.3	13	125	1625
60	12.5	2	456	912
61	12.5	2	265	530
62	12.5	2	579	1158
63	6.3	19	125	2375

RESUMO CA-50

Ø (mm)	kg/m	COMPR.(m)	PESO (kg)
6.3	0.25	436.25	109
12.5	1.00	426.72	427
		TOTAL:	536

NOTAS:

1 - MEDIDAS EM CENTÍMETRO, EXCETO INDICAÇÃO CONTRÁRIA

2- MATERIAIS:
- CONCRETO ESTRUTURAL fck = 30 MPa (FATOR A/C<0,5)
- AÇO CA50

3 - COBRIMENTO DAS ARMADURAS:
c = 3,0 cm

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	MODIFICACÕES	APROVACAO	DATA	APROVACAO	DATA
		AUTOR DO PROJETO		UFABC	
2	ATENDIMENTO COMENTÁRIOS	PAULO FACCIO	30.08.17		
1	EMISSÃO INICIAL	PAULO FACCIO	31.05.17		

OBSERVAÇÕES

CSB-PE-EST-HAN-FOR-105-06
DESENHOS DE REFERÊNCIA

N.	APROVACAO	DATA
	AUTOR DO PROJETO	
	UFABC	

CSB-PE-EST-HAG-MCL-ARM - MEMÓRIA DE CÁLCULO
NOTAS

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: 31.05.17
Nº PROJETO:

Universidade Federal do ABC
Câmpus São Bernardo do Campo

UFABC

ETAPA – ÁREA TÉCNICA: PROJETO EXECUTIVO – ESTRUTURA
PE-EST

CONTEÚDO: ARMAÇÃO – VIGAS ESCADA
FOLHA: 07 / 20

LOCALIZAÇÃO – IDENTIFICAÇÃO: HANGAR

ARQUIVO ELETRÔNICO:	REVISÃO DA FOLHA:	ESCALA:	DATA:
CSB-PE-EST-HAN-ARM-106-07-R02	R02	INDIC.	30/08/17