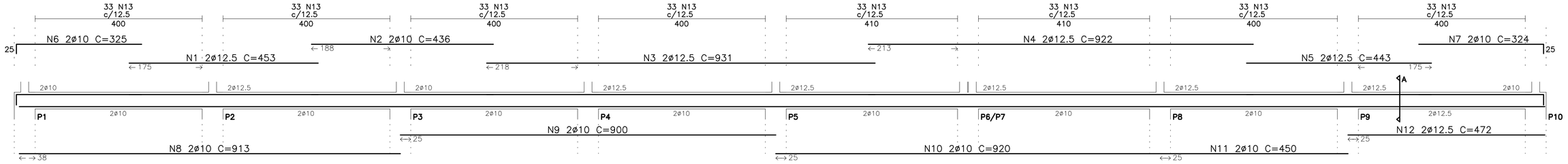
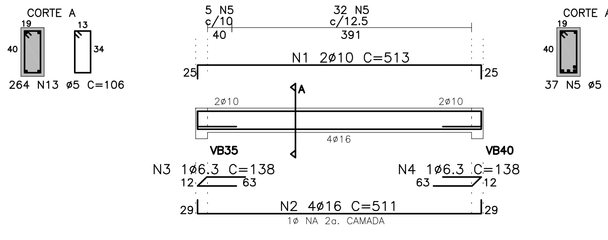
ESC. PLOT. 1:20	
A0 841x1189	
CORES/ESP.	
RED	0,20
YELLOW	0,50
GREEN	0,30
CYAN	0,40
BLUE	0,30
MAGENTA	0,10
WHITE	0,70
COR 8	0,30

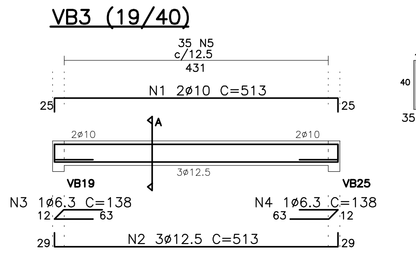
VB1 (19/40)



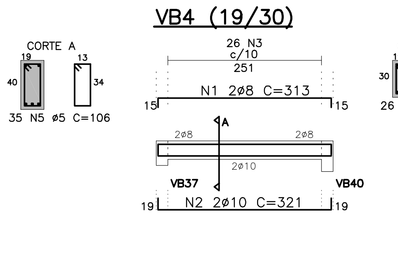
VB2 (19/40)



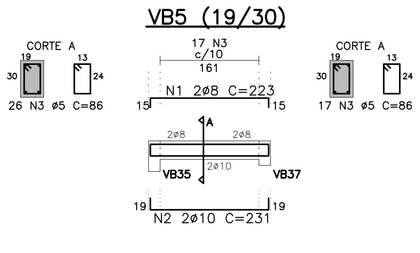
VB3 (19/40)



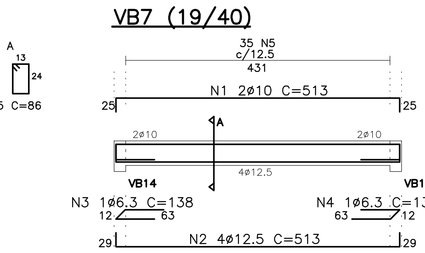
VB4 (19/30)



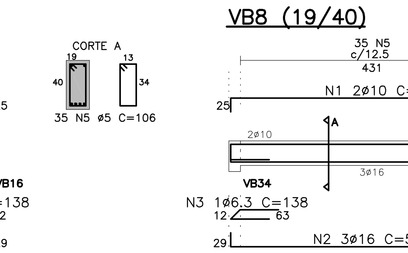
VB5 (19/30)



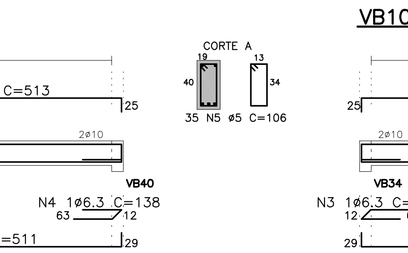
VB7 (19/40)



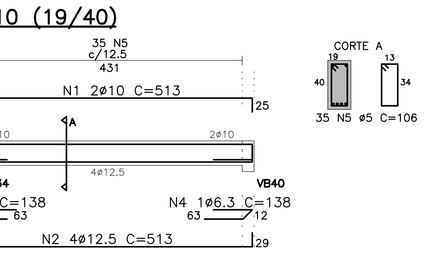
VB8 (19/40)



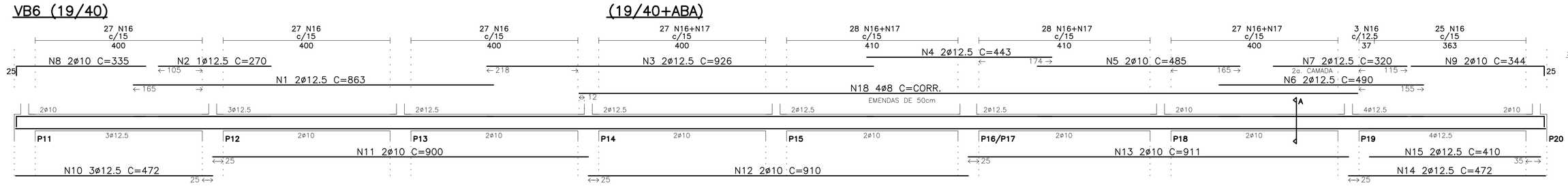
VB10 (19/40)



VB18 (19/30)

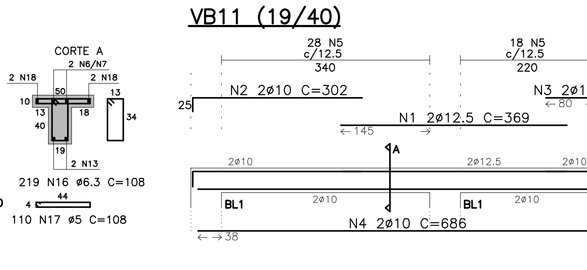


VB6 (19/40)

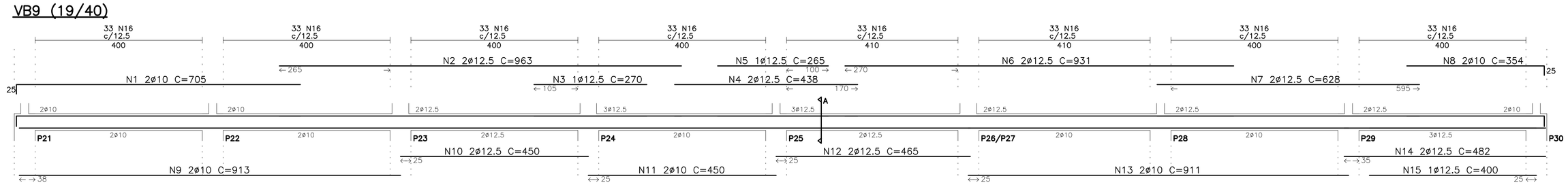


(19/40+ABA)

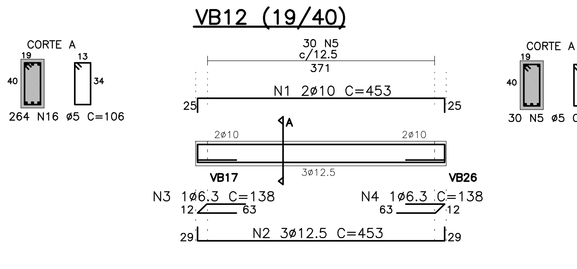
VB11 (19/40)



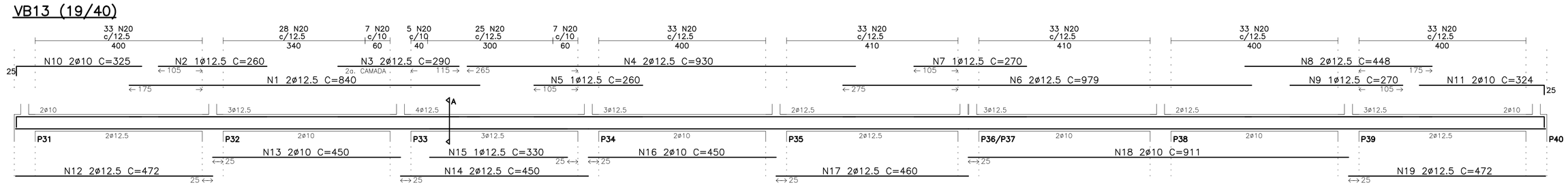
VB9 (19/40)



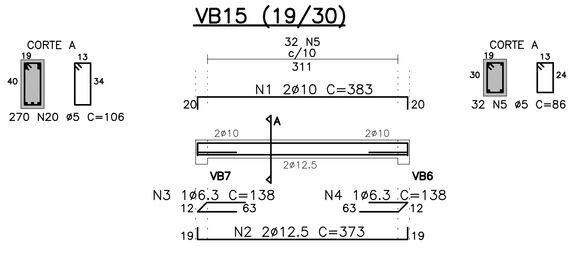
VB12 (19/40)



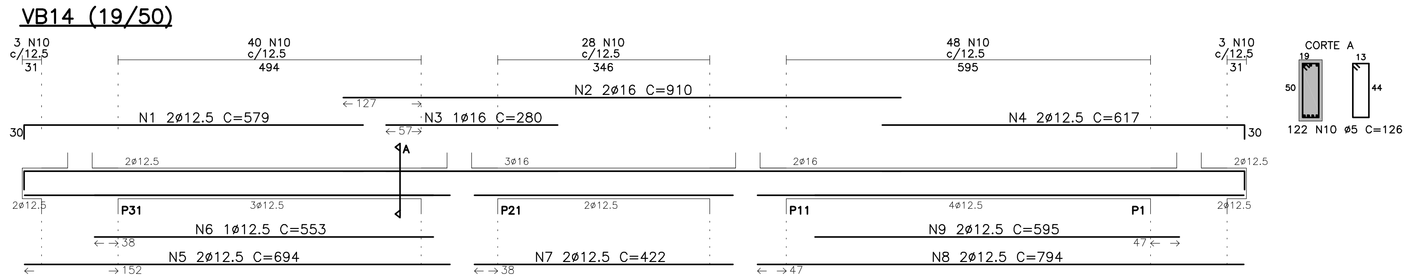
VB13 (19/40)



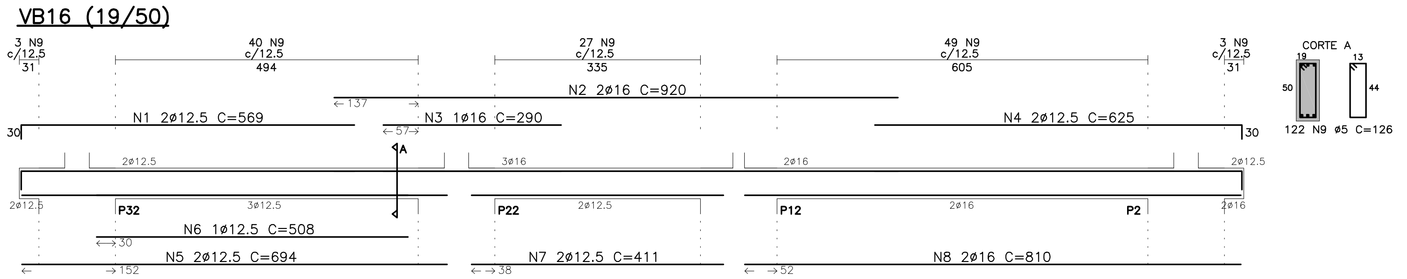
VB15 (19/30)



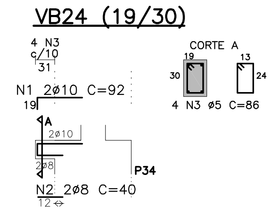
VB14 (19/50)



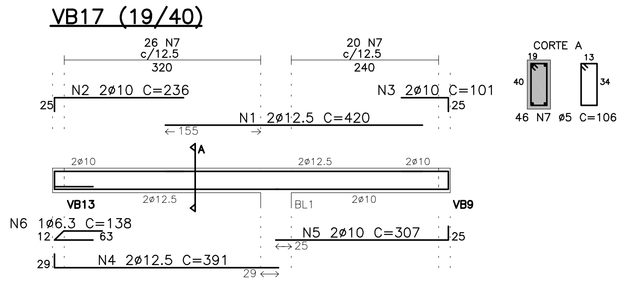
VB16 (19/50)



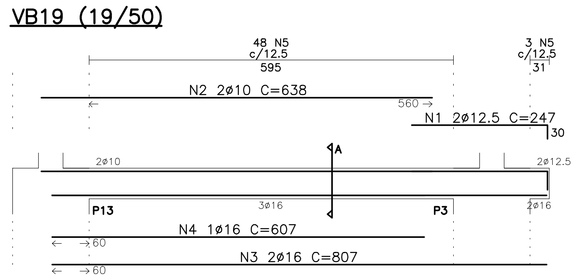
VB24 (19/30)



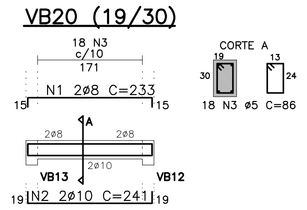
VB17 (19/40)



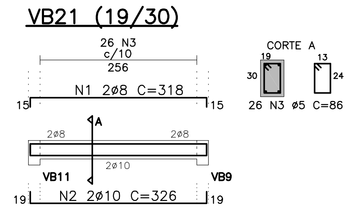
VB19 (19/50)



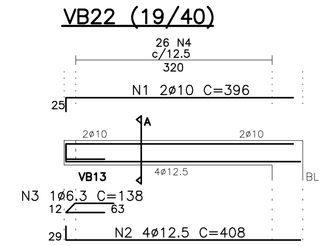
VB20 (19/30)



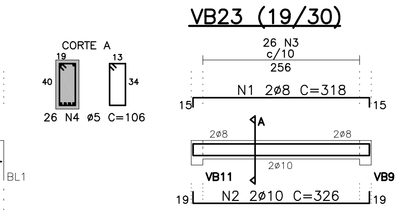
VB21 (19/30)



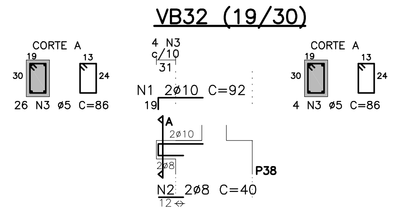
VB22 (19/40)



VB23 (19/30)



VB32 (19/30)



VB17

N	ø	Q	UNI	TOTAL
1	12.5	2	420	840
2	10	2	236	472
3	12.5	2	931	1862
4	12.5	2	391	782
5	12.5	2	307	614
6	6.3	1	138	138
7	5	46	106	4876

VB18

N	ø	Q	UNI	TOTAL
1	10	2	92	184
2	8	2	40	80
3	5	4	86	344

VB19

N	ø	Q	UNI	TOTAL
1	10	2	247	494
2	16	4	511	2044
3	16	2	638	1276
4	16	1	807	1614
5	5	51	126	6426

VB20

N	ø	Q	UNI	TOTAL
1	8	2	233	466
2	10	2	241	482
3	5	18	86	1548

VB21

N	ø	Q	UNI	TOTAL
1	8	2	318	636
2	10	2	326	652
3	5	26	86	2236

VB22

N	ø	Q	UNI	TOTAL
1	10	2	396	792
2	12.5	4	408	1632
3	6.3	1	138	138
4	5	26	106	2756

VB23

N	ø	Q	UNI	TOTAL
1	8	2	318	636
2	10	2	326	652
3	5	26	86	2236

VB24

N	ø	Q	UNI	TOTAL
1	10	2	92	184
2	8	2	40	80
3	5	4	86	344

VB32

N	ø	Q	UNI	TOTAL
1	10	2	92	184
2	8	2	40	80
3	5	4	86	344

RESUMO DAS VIGAS DA FUNDAÇÃO (01/02)

ACO	ø	COMPR(cm)	PESO(kg)
60B	5	181590	291
50A	6.3	25860	65
50A	8	10710	43
50A	10	43698	276
50A	12.5	62992	630
50A	16	11648	187
50A	20	–	–
50A	25	–	–
PESO TOTAL (kg)			1492

VB1

N	ø	Q	UNI	TOTAL
1	12.5	2	453	906
2	10	2	436	872
3	12.5	2	931	1862
4	12.5	2	922	1844
5	12.5	2	443	886
6	10	2	325	650
7	10	2	324	648
8	10	2	913	1826
9	10	2	900	1800
10	10	2	920	1840
11	10	2	450	900
12	12.5	2	472	944
13	5	264	106	27984

VB2

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	16	4	511	2044
3	6.3	1	138	138
4	6.3	1	138	138
5	5	37	106	3922

VB3

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	12.5	3	513	1539
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB4

N	ø	Q	UNI	TOTAL
1	8	2	313	626
2	10	2	321	642
3	5	26	86	2236

VB5

N	ø	Q	UNI	TOTAL
1	8	2	223	446
2	10	2	231	462
3	5	17	86	1462

VB6

N	ø	Q	UNI	TOTAL
1	12.5	2	863	1726
2	12.5	1	270	270
3	12.5	2	926	1852
4	12.5	2	443	886
5	10	2	485	970
6	12.5	2	490	980
7	12.5	2	320	640
8	10	2	335	670
9	10	2	344	688
10	12.5	3	472	1416
11	10	2	900	1800
12	10	2	910	1820
13	10	2	911	1822
14	12.5	2	472	944
15	12.5	2	410	820
16	6.3	219	108	23652
17	5	110	108	11880
18	8	4	1915	7660

VB7

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	12.5	4	513	2052
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB8

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	16	3	511	1533
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB9

N	ø	Q	UNI	TOTAL
1	10	2	705	1410
2	12.5	2	963	1926
3	12.5	1	270	270
4	12.5	2	438	876
5	12.5	1	265	265
6	12.5	2	931	1862
7	12.5	2	628	1256
8	10	2	324	708
9	10	2	913	1826
10	12.5	2	450	900
11	10	2	450	900
12	12.5	2	465	930
13	10	2	911	1822
14	12.5	2	482	964
15	12.5	1	400	400
16	5	264	106	27984

VB10

N	ø	Q	UNI	TOTAL
1	10	2	513	1026
2	12.5	4	513	2052
3	6.3	1	138	138
4	6.3	1	138	138
5	5	35	106	3710

VB11

N	ø	Q	UNI	TOTAL
1	12.5	2	369	738
2	10	2	302	604
3	10	2	115	230
4	10	2	686	1372
5	5	46	106	4876

VB12

N	ø	Q	UNI	TOTAL
1	10	2	453	906
2	12.5	3	453	1359
3	6.3	1	138	138
4	6.3	1	138	138
5	5	30	106	3180

VB13

N	ø	Q	UNI	TOTAL
1	12.5	2	840	1680
2	12.5	1	260	260
3	12.5	2	290	580
4	12.5	2	930	1860
5	12.5	1	260	260
6	12.5	2	979	1958
7	12.5	1	270	270
8	12.5	2	448	896
9	12.5	1	270	270
10	10	2	325	650
11	10	2	324	648
12	12.5	2	472	944
13	10	2	450	900
14	12.5	2	450	900
15	12.5	1	330	330
16	10	2	450	900
17	12.5	2	460	920
18	10	2	911	1822
19	12.5	2	472	944
20	5	270	106	28620

VB14

N	ø	Q	UNI	TOTAL
1	12.5	2	579	1158
2	16	2	910	1820
3	16	1	280	280
4	12.5	2	617	1234
5	12.5	2	694	1388
6	12.5	1	553	553
7	12.5	2	422	844
8	12.5	2	794	1588
9	12.5	2	595	1190
10	5	122	126	15372

VB15

N	ø	Q	UNI	TOTAL
1	10	2	383	766
2	12.5	2	373	746
3	6.3	1	138	138
4	6.3	1	138	138
5	5	32	86	2752

VB16

N	ø	Q	UNI	TOTAL
1	12.5	2	569	1138
2	16	2	920	1840
3	16	1	290	290
4	12.5	2	625	1250
5	12.5	2	694	1388
6	12.5	1	508	508
7	12.5	2	411	822
8	16	2	810	1620
9	5	122	126	15372

PAD CR-2 - PADRÃO ESTACA

No.	MODIFICAÇÕES	APROVAÇÃO	DATA	APROVAÇÃO	DATA
		AUTOR DO PROJETO		FDE	

OBSERVAÇÕES	DESENHO DE REFERÊNCIA	No.	APROVAÇÃO	DATA
			AUTOR DO PROJETO	
			FDE	

NOTAS:

01–CONCRETO: fck ≥ 25 MPa
02–AÇO: CA–50 – fyk=500 MPa
CA–60 – fyk=600 MPa
03–MEDIDAS EM cm, NÍVEIS EM m.
04–NÃO TIRAR MEDIDAS EM ESCALA.
05–CONFIRMAR MEDIDAS NO LOCAL.
06–COBRIMENTO=3,0cm.

DETALHE DO RAIO DE CURVATURA (R)

VALOR EXPRESSADO NAS BITOLAS

ø (mm)	R (cm)	C.C. (cm)
12.5	10	16
16	13	21
20	16	25
25	20	31
C.C.=COMPRIMENTO DA CURVA		

FDE
FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO – F D E

ESCOLA – NOME/LOCAL: –		CÓDIGO: 1 2 0 1 0 4 6
INTERVENÇÃO: CRECHE – CR–2		No LOTE: 01
ETAPA/MÉRIA TÉCNICA: PROJETO EXECUTIVO DE ESTRUTURA	TIPO PROJETO: PADRÃO	DATA: MAR/2011
ETAPA/MÉRIA TÉCNICA: PE – EST		
CONTEÚDO: ARMAÇÃO DAS VIGAS DA FUNDAÇÃO (01/02)	ESCALA: INDICADA	FOLHA: 05/00 REVISÃO: 00

DESENHO GERADO PELO SISTEMA CAD – POR ENGECALC ENGENHARIA E PROJETOS ESTRUTURAIS S/C LTDA

1201046_01FED5500_01