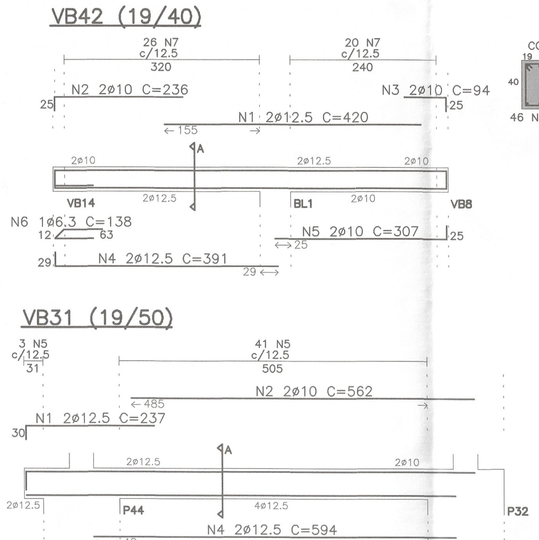
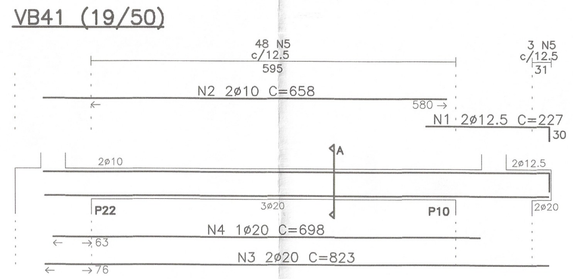
ESC. PLOT. 1:20	
AO 841x1189	
CORES/ESP.	
RED	0,20
YELLOW	0,50
GREEN	0,30
CYAN	0,40
BLUE	0,30
MAGENTA	0,10
WHITE	0,70
COR 8	0,30

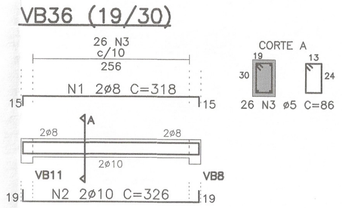
VB42 (19/40)



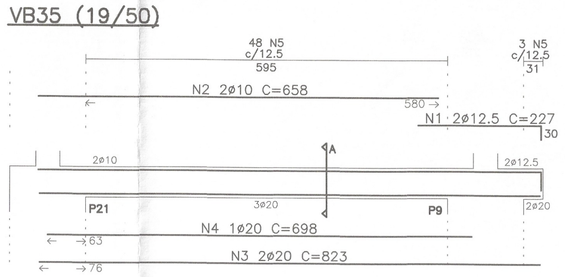
VB41 (19/50)



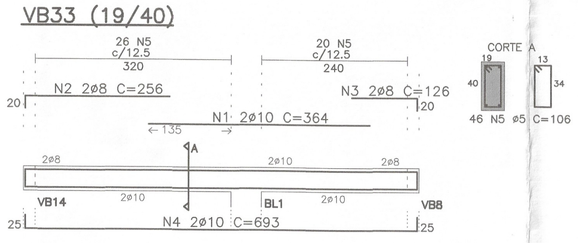
VB36 (19/30)



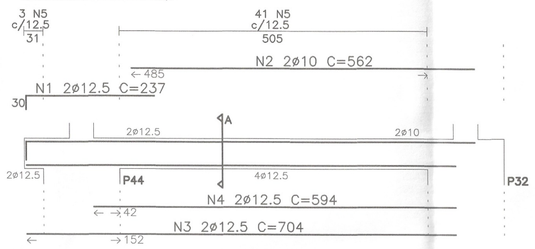
VB35 (19/50)



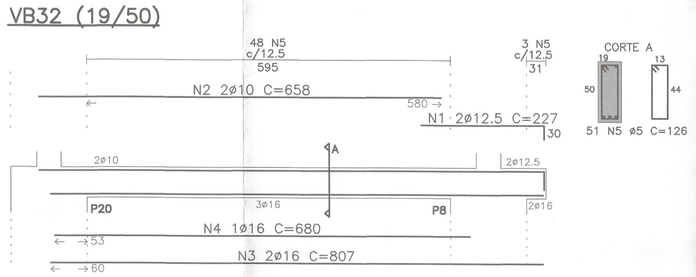
VB33 (19/40)



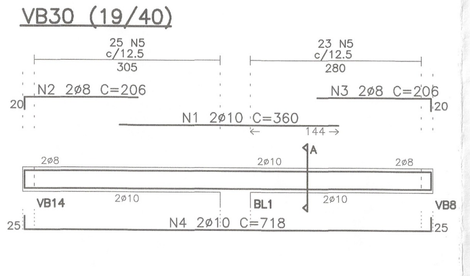
VB31 (19/50)



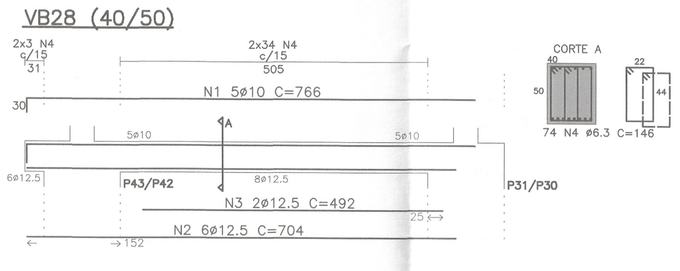
VB32 (19/50)



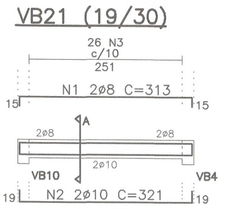
VB30 (19/40)

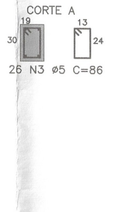


VB28 (40/50)

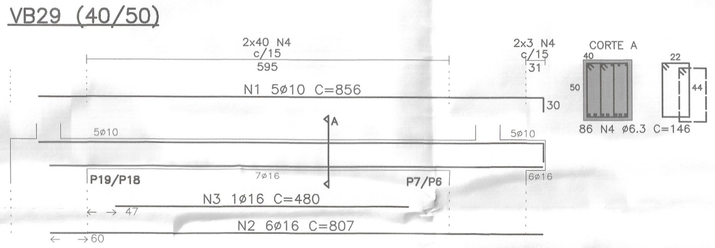


VB21 (19/30)

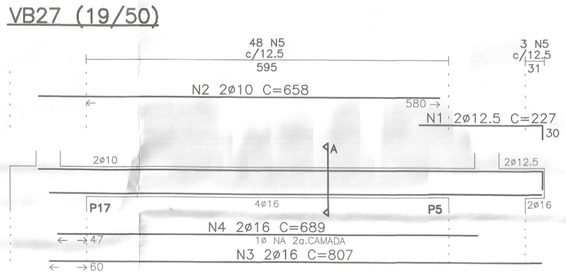




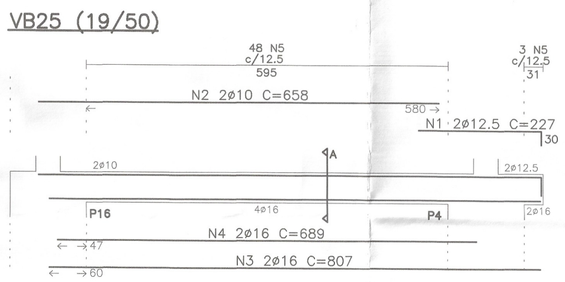
VB29 (40/50)



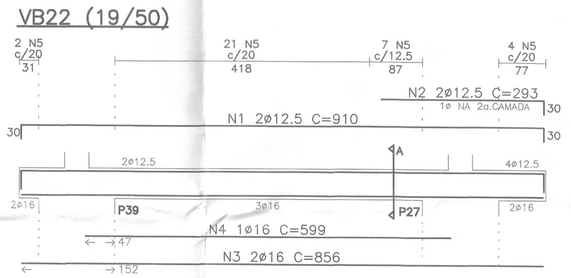
VB27 (19/50)



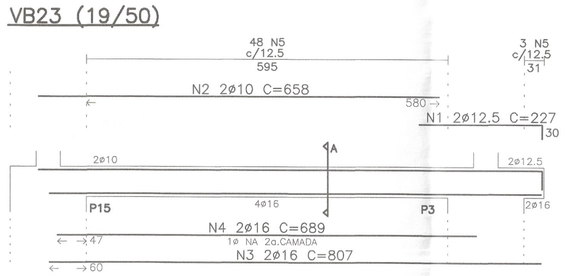
VB25 (19/50)



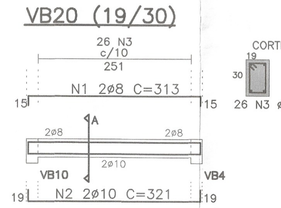
VB22 (19/50)

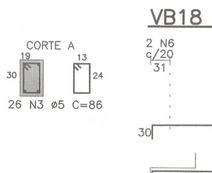


VB23 (19/50)

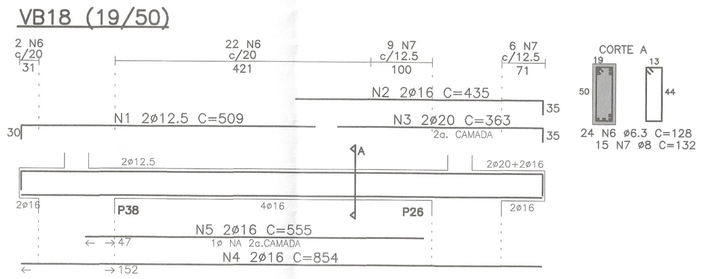


VB20 (19/30)

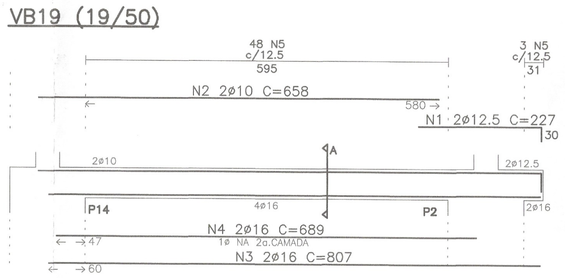




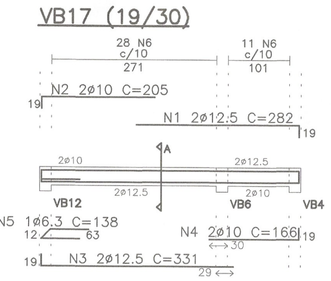
VB18 (19/50)

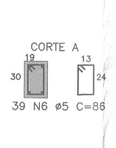


VB19 (19/50)

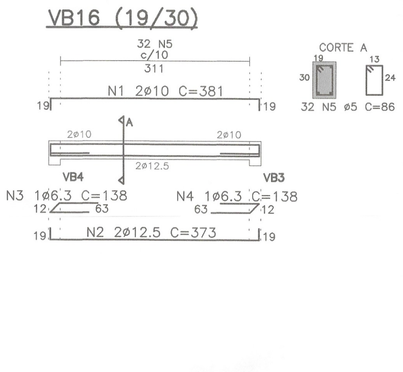


VB17 (19/30)

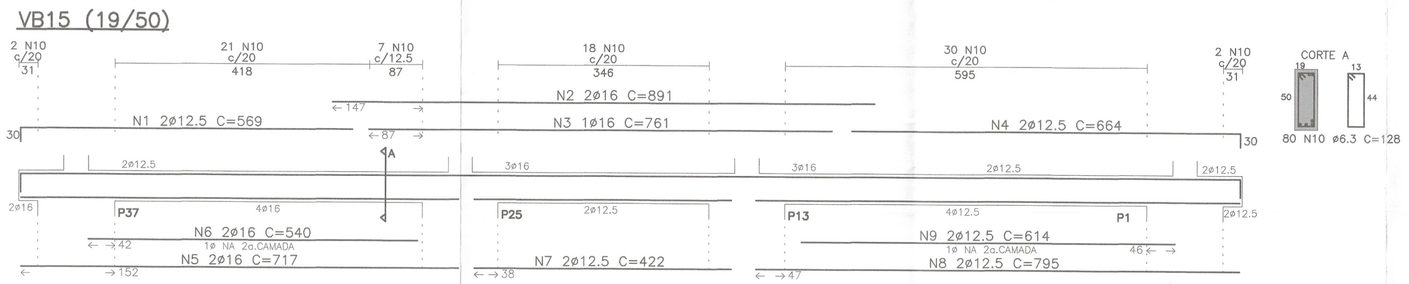




VB16 (19/30)



VB15 (19/50)



VB15				
N	ø	Q	UNI	TOTAL
1	12.5	2	569	1138
2	10	2	891	1782
3	16	1	761	761
4	12.5	2	664	1328
5	16	2	717	1434
6	16	2	540	1080
7	12.5	2	422	844
8	12.5	2	795	1590
9	12.5	2	614	1228
10	6.3	80	128	10240

VB16				
N	ø	Q	UNI	TOTAL
1	10	2	381	762
2	12.5	2	373	746
3	6.3	1	138	138
4	6.3	1	138	138
5	5	32	86	2752

VB17				
N	ø	Q	UNI	TOTAL
1	12.5	2	282	564
2	10	2	205	410
3	12.5	2	331	662
4	10	2	166	332
5	6.3	1	138	138
6	5	39	86	3354

VB19				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	16	2	807	1614
4	16	2	689	1378
5	5	51	126	6426

VB18				
N	ø	Q	UNI	TOTAL
1	12.5	2	509	1018
2	16	2	435	870
3	20	2	363	726
4	16	2	854	1708
5	16	2	555	1110
6	6.3	24	128	3072
7	8	15	132	1980

VB20				
N	ø	Q	UNI	TOTAL
1	8	2	313	626
2	10	2	321	642
3	5	26	86	2236

VB21				
N	ø	Q	UNI	TOTAL
1	8	2	313	626
2	10	2	321	642
3	5	26	86	2236

VB22				
N	ø	Q	UNI	TOTAL
1	12.5	2	910	1820
2	12.5	2	293	586
3	16	2	856	1712
4	16	1	599	599
5	6.3	34	128	4352

VB23				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	16	2	807	1614
4	16	2	689	1378
5	5	51	126	6426

VB25				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	16	2	807	1614
4	16	2	689	1378
5	5	51	126	6426

VB27				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	16	2	807	1614
4	16	2	689	1378
5	5	51	126	6426

VB28				
N	ø	Q	UNI	TOTAL
1	10	5	766	3830
2	12.5	6	704	4224
3	12.5	2	492	984
4	6.3	74	147	10878

VB29				
N	ø	Q	UNI	TOTAL
1	10	5	856	4280
2	16	6	807	4842
3	16	1	480	480
4	6.3	86	147	12642

VB30				
N	ø	Q	UNI	TOTAL
1	10	2	360	720
2	8	2	206	412
3	8	2	206	412
4	10	2	718	1436
5	5	48	106	5088

VB31				
N	ø	Q	UNI	TOTAL
1	12.5	2	237	474
2	10	2	562	1124
3	12.5	2	704	1408
4	12.5	2	594	1188
5	5	44	126	5544

VB32				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	16	2	807	1614
4	16	1	680	680
5	5	51	126	6426

VB33				
N	ø	Q	UNI	TOTAL
1	10	2	364	728
2	8	2	256	512
3	8	2	126	252
4	10	2	693	1386
5	5	46	106	4876

VB35				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	20	2	823	1646
4	20	1	698	698
5	5	51	126	6426

VB36				
N	ø	Q	UNI	TOTAL
1	8	2	318	636
2	10	2	326	652
3	5	26	86	2236

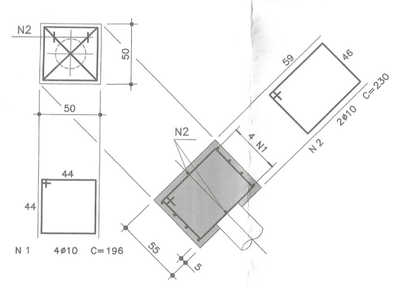
VB41				
N	ø	Q	UNI	TOTAL
1	12.5	2	227	454
2	10	2	658	1316
3	20	2	823	1646
4	20	1	698	698
5	5	51	126	6426

VB42				
N	ø	Q	UNI	TOTAL
1	12.5	2	420	840
2	10	2	236	472
3	10	2	94	188
4	12.5	2	391	782
5	10	2	307	614
6	6.3	1	138	138
7	5	46	106	4876

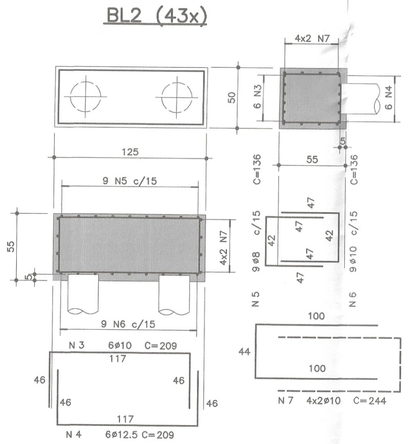
RESUMO DAS VIGAS

ACO	ø	COMPR(cm)	PESO(kg)
60B	5	78180	128
50A	6.3	41736	105
50A	8	5456	22
50A	10	27430	173
50A	12.5	24602	246
50A	16	30640	491
50A	20	6414	136
50A	25	–	–
PESO TOTAL (kg)			1299

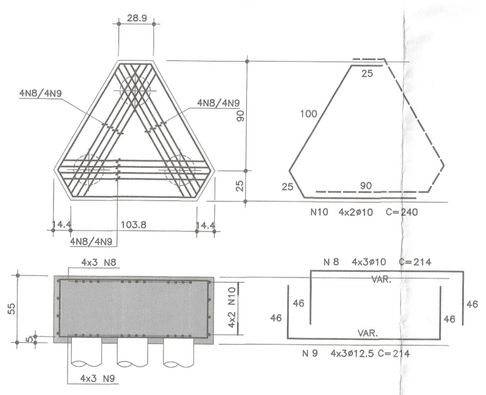
BL1 (4x)



BL2 (43x)



BL3 (1x)



LISTA DE FERROS				
POS.	ø	QUANT.	COMPRIMENTO UNIT.	COMPRIMENTO TOTAL
1	10	16	196	3136
2	10	8	230	1840
3	10	258	209	53922
4	12.5	258	209	53922
5	8	387	136	52632
6	10	387	136	52632
7	10	344	244	83936
8	10	12	214	2568
9	12.5	12	214	2568
10	10	8	240	1920

BLOCOS		
RESUMO DE ACO C.A. 50		
ø	COMPRIMENTO (m)	PESO (kg)
6.3		
8	526.32	211
10	1999.54	1260
12.5	564.90	565
16		
20		
25		
TOTAL (kg)		2036

CR-1E - PADRÃO ESTACA

205

No.	MODIFICAÇÕES	APROVAÇÃO	DATA	APROVAÇÃO	DATA
		AUTOR DO PROJETO		FDE	

OBSERVAÇÕES

DESENHO DE REFERÊNCIA

No.	APROVAÇÃO	DATA
	FDE	

APROVAÇÃO	DATA
AUTOR DO PROJETO	

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)

VALORES ESPECIFICADOS NA TABELA

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

RESPONSÁVEL PELA IMPLANTAÇÃO DO PROJETO:
apiacás arquitetos
ARQUITETOS : ANDERSON FREITAS, PEDRO BARROS, ACACIA FURUYA
R GENERAL JARDIM 482 GUTEB VILA BUARQUE CEP 01223-010 SÃO PAULO
apiacas@apiacasarquitetos.com.br FAX# (11) 3159 1970
RESPONSÁVEL TÉCNICO: PEDRO AMARGO DE BARROS – CAU A42235-0

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO – F D E

ESCOLA – NOME/LOCAL: TERRENO JARDIM TEIXEIRA / ORLÂNDIA – SP	CÓDIGO: 1 2 0 2 1 5 6
INTERVENÇÃO: OBRA NOVA DE CRECHE	No. LOTE: 01
ETAPA/ÁREA TÉCNICA: PROJETO EXECUTIVO DE ESTRUTURA	TIPO PROJETO: PAD CR-1E / DATA: AGO/2014 / ETAPA/ÁREA TÉCNICA: PE – EST
CONTEÚDO: ARMAÇÃO DAS VIGAS DA FUNDAÇÃO (02/02)	ESCALA: INDICADA / FOLHA: 06/08 / REVISÃO: 00

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

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