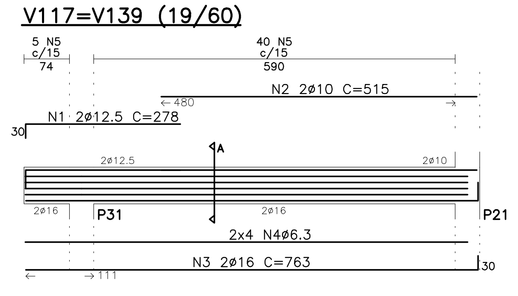
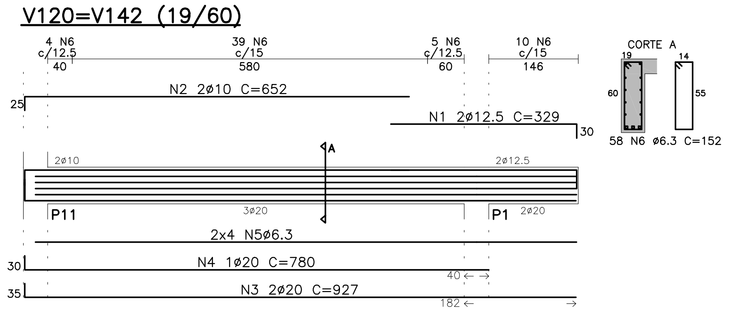
ESC. PLOT. 1=20
A0 841x1189
CORES/ESP.
RED 0,20
YELLOW 0,50
GREEN 0,30
CYAN 0,40
BLUE 0,30
MAGENTA 0,10
WHITE 0,70
COR 8 0,30

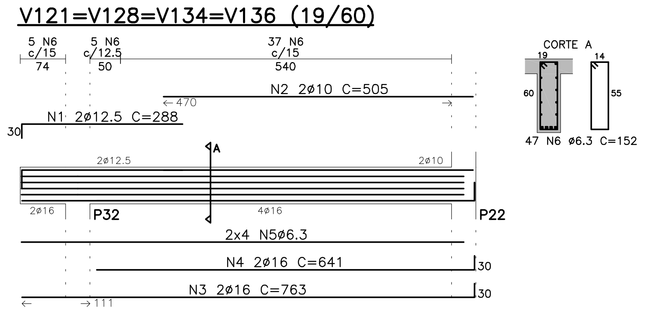
V117=V139 (19/60)



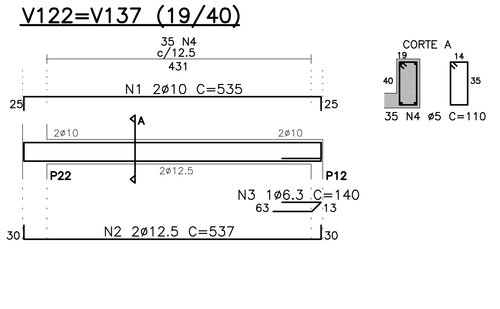
V120=V142 (19/60)



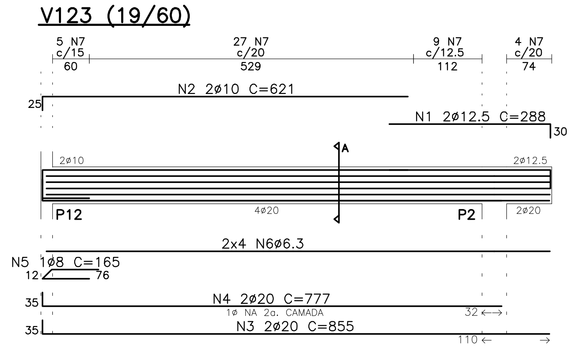
V121=V128=V134=V136 (19/60)



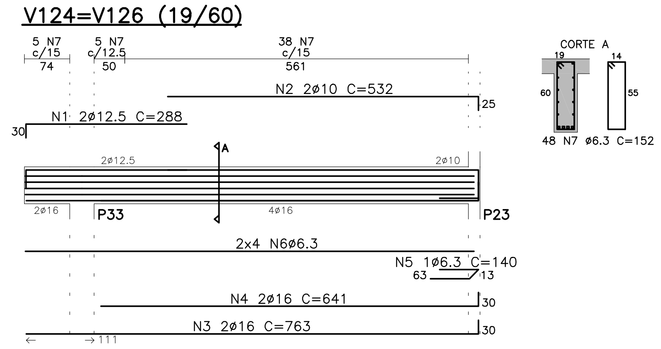
V122=V137 (19/40)



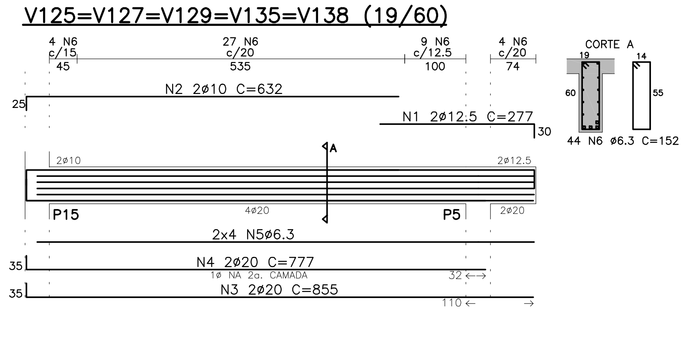
V123 (19/60)



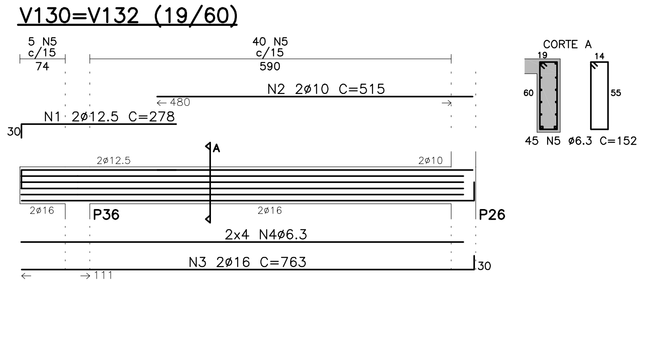
V124=V126 (19/60)



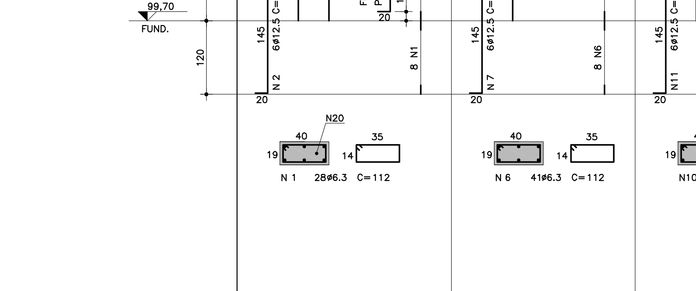
V125=V127=V129=V135=V138 (19/60)



V130=V132 (19/60)



V131=V133 (19/60)



V143 (19/37)

V117=V139 (2x)					
N	ø	Q	UNI	TOTAL
1	12.5	2	278	556
2	10	2	515	1030
3	16	2	763	1526
4	6.3			5892
5	6.3	45	152	6840

V120=V142 (2x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	329	658
2	10	2	652	1304
3	20	2	927	1854
4	20	1	780	780
5	6.3			7205
6	6.3	58	152	8816

V121=V128=V134=V136 (4x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	505	1010
3	16	2	763	1526
4	16	2	641	1282
5	6.3			5892
6	6.3	47	152	7144

V122=V137 (2x)				
N	ø	Q	UNI	TOTAL
1	10	2	535	1070
2	12.5	2	537	1074
3	6.3	1	140	140
4	5	35	110	3850

V123				
N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	621	1242
3	20	2	855	1710
4	20	2	777	1554
5	8	1	165	165
6	6.3			6708
7	6.3	45	152	6840

V124=V126 (2x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	288	576
2	10	2	532	1064
3	16	2	763	1526
4	16	2	641	1282
5	6.3	1	140	140
6	6.3			5973
7	6.3	48	152	7296

V125=V127=V129=V135=V138 (5x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	277	554
2	10	2	632	1264
3	20	2	855	1710
4	20	2	777	1554
5	6.3			6618
6	6.3	44	152	6688

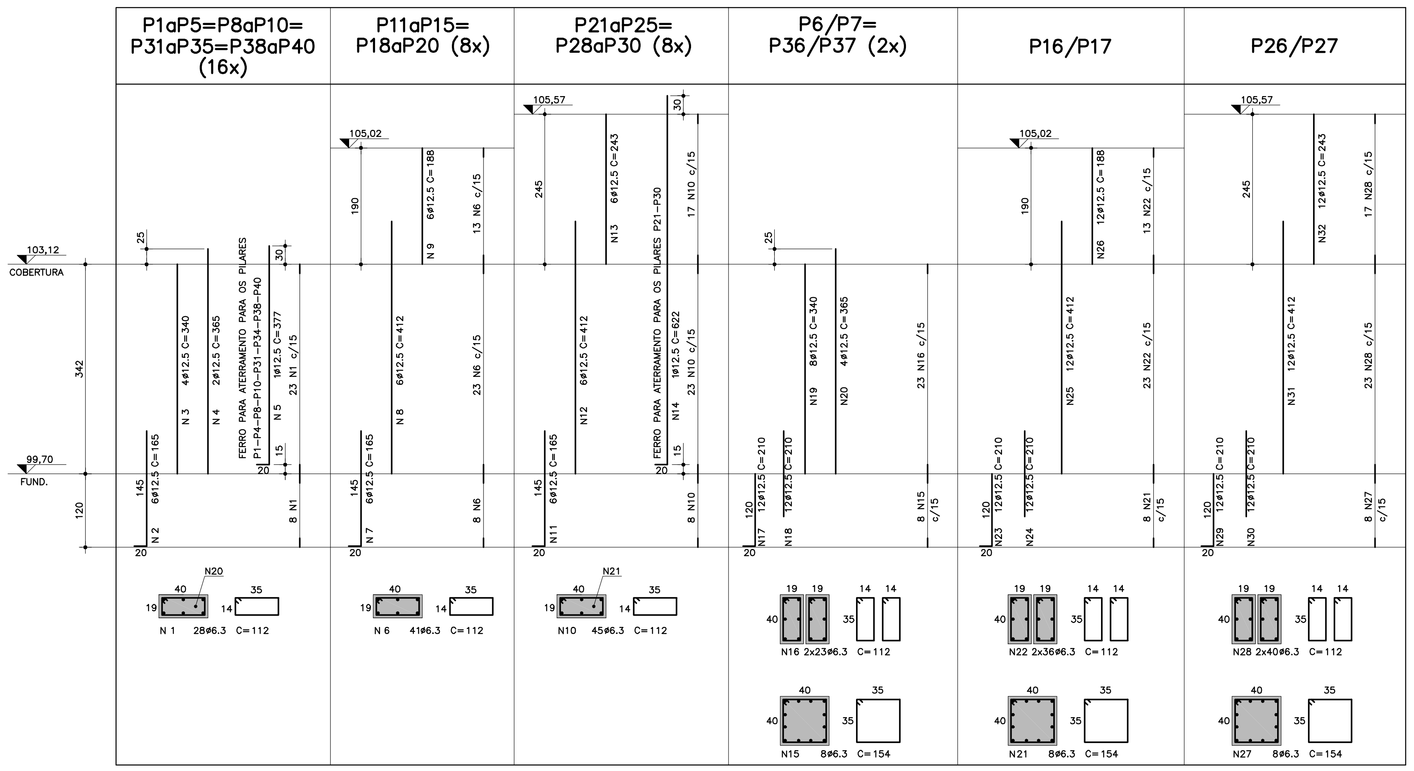
V130=V132 (2x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	278	556
2	10	2	515	1030
3	16	2	763	1526
4	6.3			5892
5	6.3	45	152	6840

V131=V133 (2x)				
N	ø	Q	UNI	TOTAL
1	12.5	2	257	514
2	10	2	652	1304
3	16	2	852	1704
4	16	1	702	702
5	6.3			6618
6	6.3	51	152	7752

V143				
N	ø	Q	UNI	TOTAL
1	10	2	604	1208
2	10	2	518	1036
3	5	39	104	4056

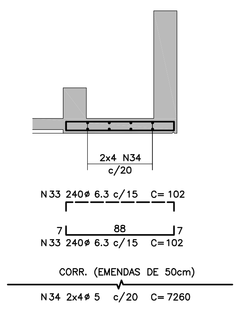
RESUMO DAS VIGAS DA COBERTURA (02/02)

AÇO	ø	COMPR(cm)	PESO(kg)
60B	5	11756	19
50A	6.3	271030	678
50A	8	165	1
50A	10	27450	173
50A	12.5	13518	136
50A	16	27764	445
50A	20	24852	622
PESO TOTAL (kg)			2074



LM101 A LM116 H=12

ESC. 1:25



LISTA DE FERROS				
POS.	ø	QUANT.	COMPRIMENTO UNIT.	COMPRIMENTO TOTAL
1	6.3	448	112	50176
2	12.5	96	165	15840
3	12.5	64	340	21760
4	12.5	32	365	11680
5	12.5	1	377	377
6	6.3	328	112	36736
7	12.5	48	165	7920
8	12.5	48	412	19776
9	12.5	48	188	9024
10	6.3	360	112	40320
11	12.5	48	165	7920
12	12.5	48	412	19776
13	12.5	48	243	11664
14	12.5	1	622	622
15	6.3	16	154	2464
16	6.3	92	112	10304
17	12.5	24	210	5040
18	12.5	24	210	5040
19	12.5	16	340	5440
20	12.5	8	365	2920
21	6.3	8	154	1232
22	6.3	72	112	8064
23	12.5	12	210	2520
24	12.5	12	210	2520
25	12.5	12	412	4944
26	12.5	12	188	2256
27	6.3	8	154	1232
28	6.3	80	112	8960
29	12.5	12	210	2520
30	12.5	12	210	2520
31	12.5	12	412	4944
32	12.5	12	243	2916
33	6.3	480	102	48960
34	5	8	7260	58080

RESUMO DE ACO C.A. 50		
ø	COMPRIMENTO (m)	PESO (kg)
6.3	2084.48	521
8		
10		
12.5	1699.39	1699
16		
20		
25		
TOTAL (kg)		2220

RESUMO DE ACO C.A. 60		
ø	COMPRIMENTO (m)	PESO (kg)
5	580.80	89
6		
TOTAL (kg)		89

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=2,5cm.

DETALHE DO RAIO DE CURVATURA (R)

VALOR ESPECIFICADO PARA ESTRIBOS

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

CR-2 - PADRÃO SAPATA 207

No.	MODIFICAÇÕES	APROVAÇÃO	DATA	APROVAÇÃO	DATA
		AUTOR DO PROJETO		FDE	

OBSERVAÇÕES

DESENHO DE REFERÊNCIA

No.	APROVAÇÃO	DATA
	AUTOR DO PROJETO	
	FDE	

FUNDAÇÃO PARA O DESENVOLVIMENTO DA EDUCAÇÃO – F D E

ESCOLA – NOME/LOCAL: –

CODIGO: 1 2 0 1 0 4 6

No LEME: 00

INTERVENÇÃO: CRECHE – CR-2

ETAPA/AREA TECNICA: PROJETO EXECUTIVO DE ESTRUTURA

TIPO PROJETO: PADRÃO

DATA: MAR/2011

ETAPA/AREA TECNICA: PE – EST

CONTEÚDO: ARMAÇÃO DAS VIGAS DA COBERTURA (02/02) E PILARES

ESCALA: INDICADA

FOLHA: 24/00

REVISÃO: 00

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

1201046_00EPE2400_01