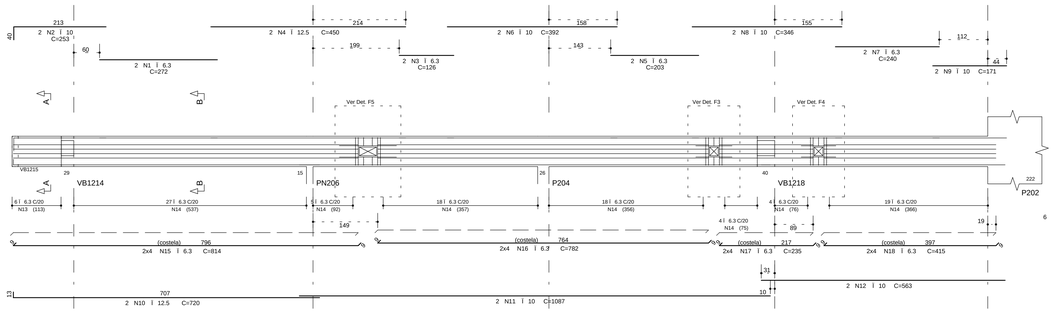
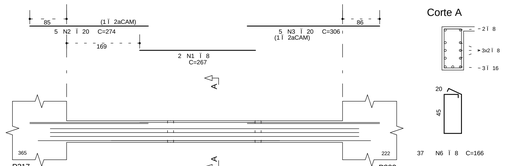
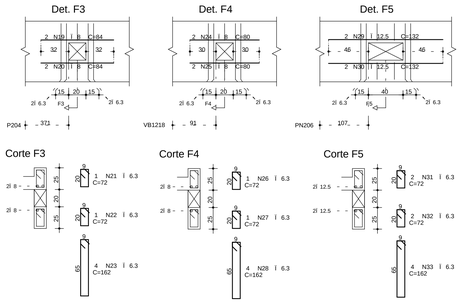
VB1207 14/70

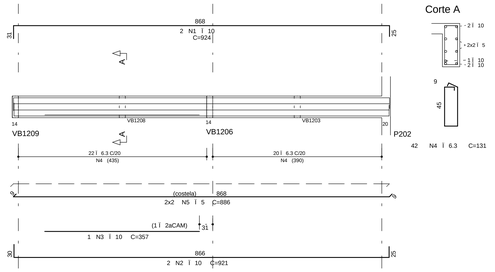


VB1220 25/50

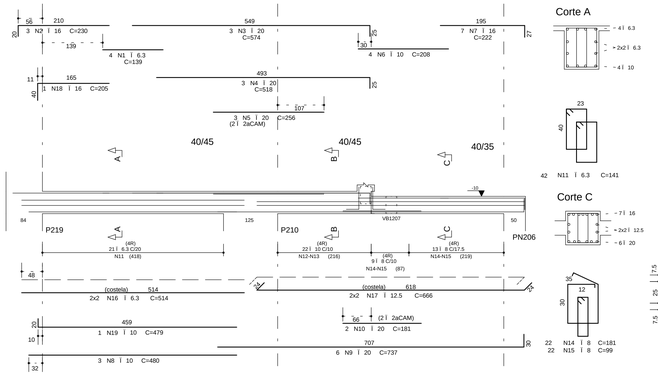




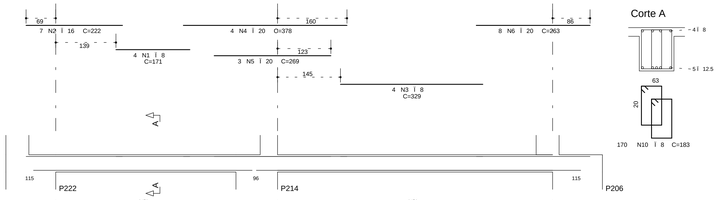
VB1221 14/50



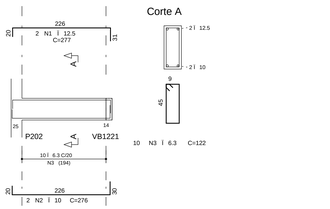
VB1216 40/VAR



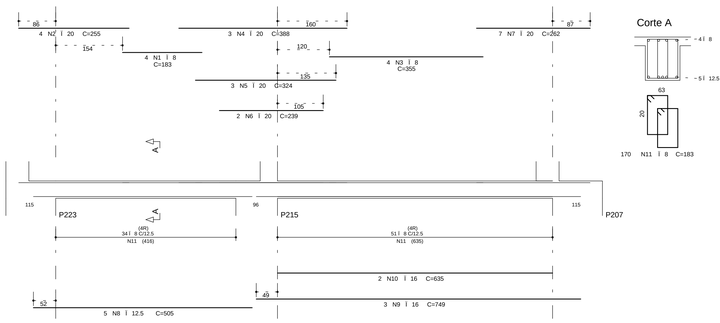
VB1223 100/25



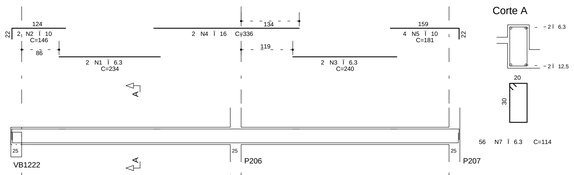
VB1203 14/50



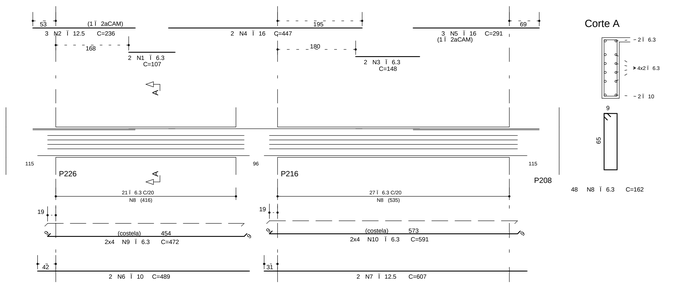
VB1224 100/25



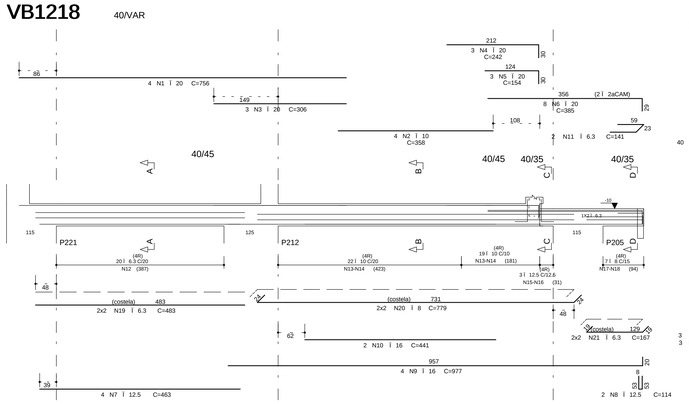
VB1204 25/35



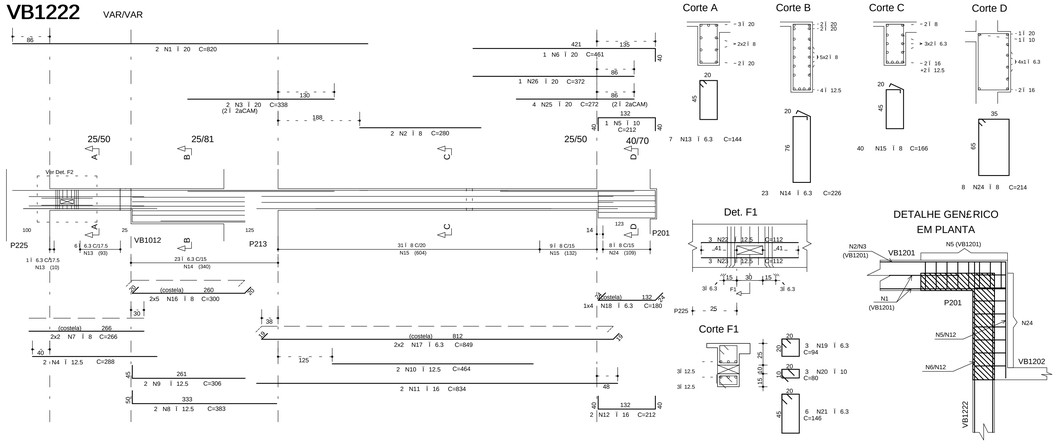
VB1225 14/70



VB1218 40/VAR



VB1222 VAR/VAR



	A4 O	POS	BIT (mm)	QUANT.	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VB1203						
	50A	1	12.5	2	277	554
	50A	2	12.5	2	276	552
	50A	3	6.3	20	107	2140
VB1204						
	50A	1	6.3	2	124	248
	50A	2	10	2	146	292
	50A	3	6.3	2	234	468
	50A	4	10	2	236	472
	50A	5	10	4	181	724
	50A	6	6.3	20	107	2140
	50A	7	12.5	2	324	648
VB1207						
	50A	1	6.3	2	272	544
	50A	2	6.3	2	253	506
	50A	3	6.3	2	126	252
	50A	4	12.5	2	450	900
	50A	5	6.3	2	196	392
	50A	6	10	2	392	784
	50A	7	6.3	2	240	480
	50A	8	12.5	2	171	342
	50A	9	10	2	171	342
	50A	10	12.5	2	726	1452
	50A	11	10	2	1087	2174
	50A	12	6.3	2	720	1440
	50A	13	6.3	2	171	342
	50A	14	6.3	95	162	15390
	50A	15	6.3	2	392	784
	50A	16	6.3	2	792	1584
	50A	17	6.3	8	235	1880
	50A	18	6.3	2	84	168
	50A	19	6.3	2	84	168
	50A	20	6.3	2	84	168
	50A	21	6.3	2	72	144
	50A	22	6.3	4	72	288
	50A	23	6.3	4	162	648
	50A	24	6.3	2	72	144
	50A	25	6.3	4	80	320
	50A	26	6.3	1	72	72
	50A	27	6.3	1	72	72
	50A	28	6.3	4	162	648
	50A	29	12.5	2	132	264
	50A	30	12.5	2	132	264
	50A	31	6.3	2	72	144
	50A	32	6.3	2	72	144
	50A	33	6.3	4	162	648
VB1216						
	50A	1	6.3	4	139	556
	50A	2	20	2	205	410
	50A	3	20	2	574	1148
	50A	4	20	3	518	1554
	50A	5	20	2	256	512
	50A	6	20	2	256	512
	50A	7	16	4	205	820
	50A	8	20	4	480	1920
	50A	9	20	2	731	1462
	50A	10	12.5	4	107	428
	50A	11	6.3	41	162	6642
	50A	12	10	22	205	4510
	50A	13	10	22	205	4510
	50A	14	6.3	22	191	2802
	50A	15	6	22	89	1576
	50A	16	6.3	4	162	648
	50A	17	12.5	4	344	1376
	50A	18	16	1	205	205
	50A	19	16	1	205	205
VB1218						
	50A	1	20	4	756	3024
	50A	2	20	2	306	612
	50A	3	20	2	306	612
	50A	4	20	3	242	726
	50A	5	20	2	358	716
	50A	6	20	8	385	3080
	50A	7	12.5	4	463	1852
	50A	8	16	2	256	512
	50A	9	16	4	177	708
	50A	10	16	2	441	882
	50A	11	6.3	2	141	282
	50A	12	6.3	40	141	5640
	50A	13	10	41	205	8405
	50A	14	6.3	41	141	5781
	50A	15	12.5	2	110	220
	50A	16	12.5	2	108	216
	50A	17	8	2	59	118
	50A	18	8	2	59	118
	50A	19	6.3	4	463	1852
	50A	20	6.3	4	279	1116
	50A	21	6.3	4	107	428
VB1220						
	50A	1	8	2	267	534
	50A	2	20	5	274	1370
	50A	3	20	5	268	1340
	50A	4	20	5	268	1340
	50A	5	16	1	389	389
	50A	6	16	1	389	389
	50A	7	20	2	750	1500
VB1221						
	50A	1	10	2	924	1848
	50A	2	10	2	921	1842
	50A	3	10	1	357	357
	50A	4	6.3	42	131	5502
	50A	5	8	42	88	3696
VB1203						
	50A	1	20	2	277	554
	50A	2	8	2	280	560
	50A	3	12.5	2	276	552
	50A	4	10	1	212	212
	50A	5	10	1	212	212
	50A	6	8	2	194	388
	50A	7	8	2	194	388
	50A	8	12.5	2	393	786
	50A	9	12.5	2	393	786
	50A	10	12.5	2	264	528
	50A	11	16	2	834	1668
	50A	12	16	2	834	1668
	50A	13	6.3	23	144	3312
	50A	14	6.3	23	226	5198
	50A	15	6	10	380	3800
	50A	16	6	10	380	3800
	50A	17	6.3	4	849	3396
	50A	18	6.3	2	96	192
	50A	19	6.3	2	96	192
	50A	20	10	3	80	240
	50A	21	12.5	3	112	336
	50A	22	12.5	3	112	336
	50A	23	12.5	3	112	336
	50A	24	8	4	272	1088
	50A	25	20	1	372	372
VB1224						
	50A	1	8	2	272	544
	50A	2	8	4	329	1316
	50A	3	20	4	379	1517
	50A	4	20	4	379	1517
	50A	5	20	8	263	2104
	50A	6	12.5	5	505	2525
	50A	7	12.5	5	505	2525
	50A	8	16	8	175	1400
	50A	9	16	8	175	1400
	50A	10	16	8	175	1400
	50A	11	6	170	183	31110
VB1204						
	50A	1	6.3	2	234	468
	50A	2	6.3	2	234	468
	50A	3	6.3	2	240	480
	50A	4	10	2	146	292
	50A	5	10	2	181	362
	50A	6	10	2	181	362
	50A	7	12.5	2	749	1498
	50A	8	12.5	2	749	1498
	50A	9	16	2	635	1270
	50A	10	16	2	635	1270
	50A	11	6	170	183	31110
VB1225						
	50A	1	6.3	2	236	472
	50A	2	12.5	2	291	582
	50A	3	6.3	2	107	214
	50A	4	6.3	2	447	894
	50A	5	6.3	2	447	894
	50A	6	10	2	489	978
	50A	7	12.5	2	607	1214
	50A	8	12.5	2	607	1214
	50A	9	6.3	4	472	1888
	50A	10	6.3	8	381	3048

RESUMO A4 O CA. 50-60			
A4 O	BIT (mm)	COMPR. (m)	PESO (kg)
60B	6.3	1.00	0.25
50A	6	980	245
50A	8	1024	418
50A	10	1027	627
50A	12.5	1227	1227
50A	16	1024	1007
50A	20	360	355
Peso Total 60B =			6 kg
Peso Total 50A =			2318 kg

COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS,BALDRAMES E CONTENCDES (FACE EM CONTATO COM A TERRA) = 3,0 cm

1. ESSES COBRIMENTOS DEVERAO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTILHAS.
COBRIMENTOS ESPECIFICOS EM CONTRARIO AOS VALORES INDICADOS ACIMA, ESTAO INDICADOS NOS DESENHOS DE FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO
NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

INDICE:

VB1203, VB1204, VB1207, VB1216, VB1218, VB1220
A VB1225

FCK= 35 MPa
EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).
A/C = 0,65 (FATOR AGUA CIMENTO)

REV	DATA	DESCRICAO
1	21/08/2014	NUMERACAO FINAL
0	14/09/2012	EMISSAO INICIAL

Simetria Engenharia
SHI QUADRA 4C Nº 01 SALAS 201 A 205
BRASILIA-DF CEP: 71200-045
FABR. (0XX61) 3036-9633
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE: GENT INCORPORADORA LTDA
OBRA: ED. RESIDENCIAL/COMERCIAL PAINEIRAS — No OBRA: XXX
ENDERECO OBRA: RUA 30 NORTE LOTE 03 - RUA DAS PAINEIRAS - AGUAS CLARAS DF
DESCRICAO: ARMACAO DAS VIGAS PISO DO 16o PAVIMENTO TORRE 2 - JUNTA B (02/02)
DESENHO No: BL2 076-085
DESENHISTA: TQSI/ PRISCILLA — DATA: 14/09/2012 — ESCALA: 1:50 — UNIDADE: CM — No PROJ. SIMETRIA: 478
ARQUIVO PLT: 478 -EST-BL2- 076-085 -R01 -VIG.PLT
PROPRIETARIO: — RESPONSAVEL TECNICO:
RESPONSAVEL TECNICO PELO PROJETO ESTRUTURAL
SIMETRIA ENGENHARIA E PROJETOS S/C LTDA
CREA 2720/RF

SIMETRIA ENGENHARIA DE PROJETOS S/C LTDA PL E:\TQSWin\478 - CGSA\ROOT\478 - TORRE 2 - JUNTA B\15-16\PAVIGA\SRVIGA\SRLPLT 21/08/2014 17:55:02