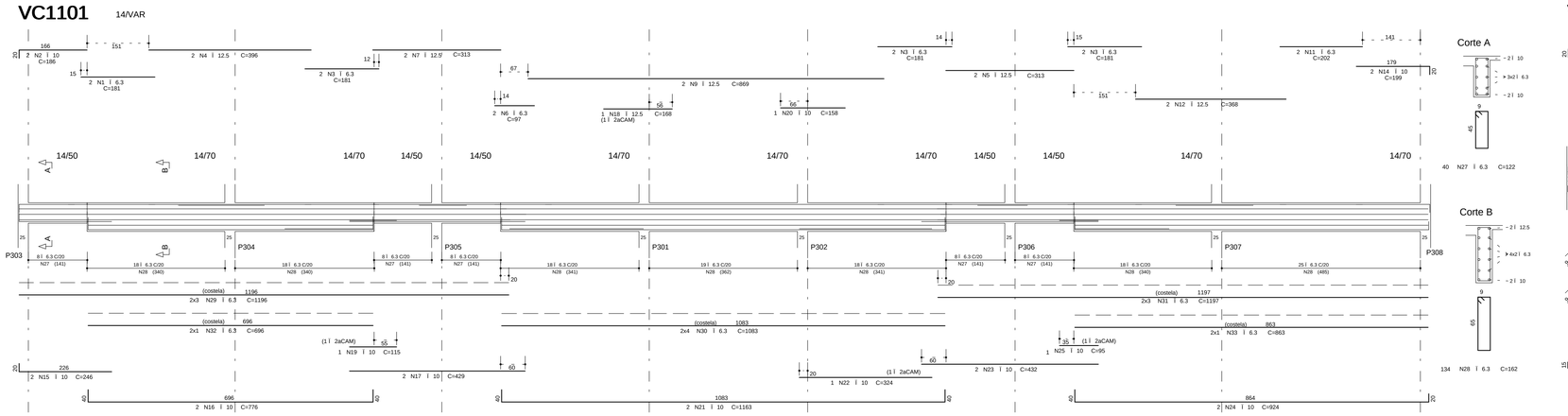

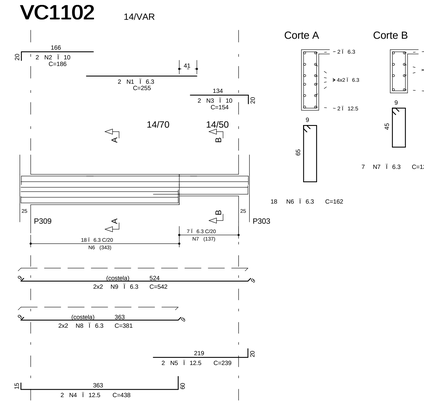

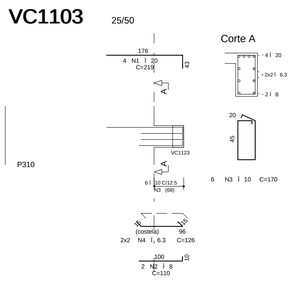

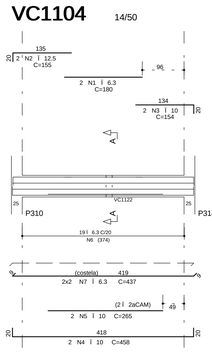

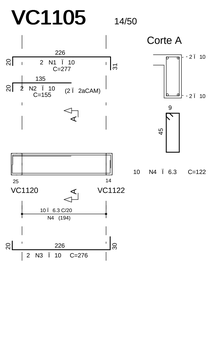

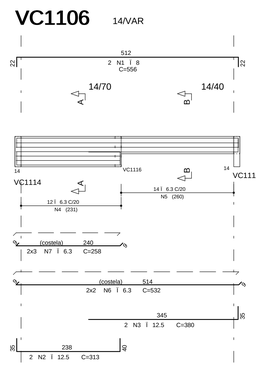

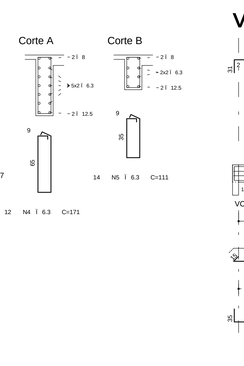

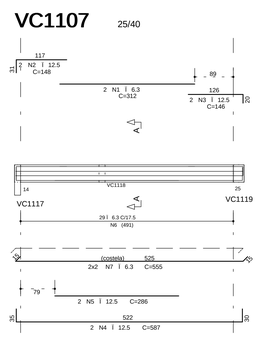

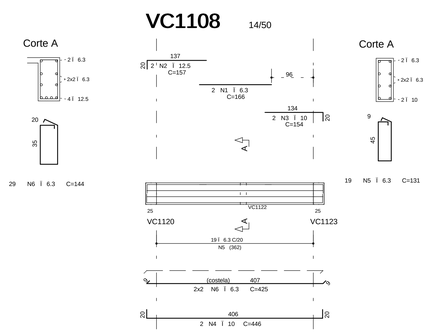

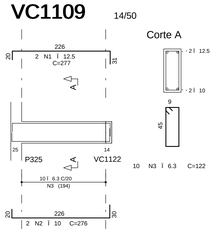

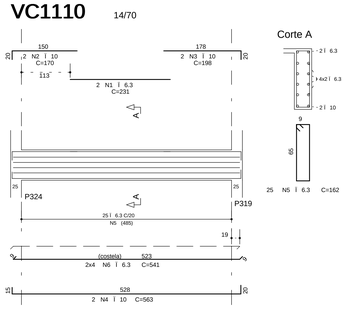

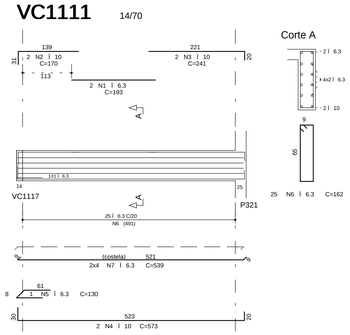

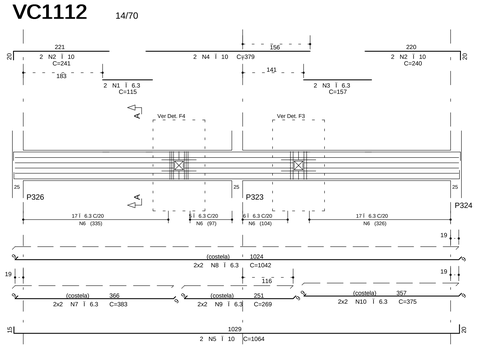

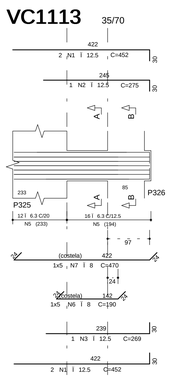

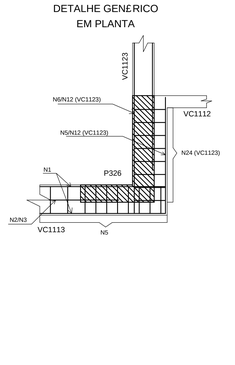

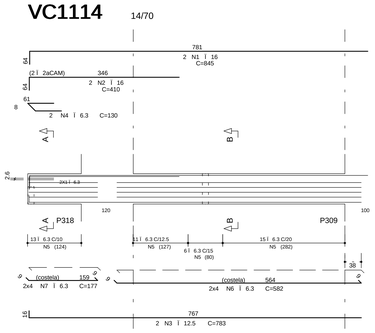

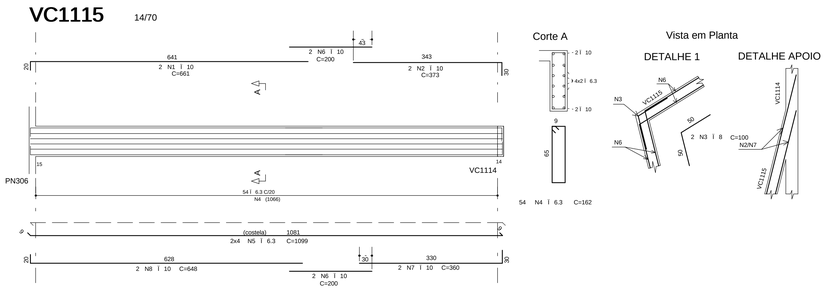

A4-O	POS	BIT (mm)	QUANT.	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VC1101					
50A	1	6.3	2	181	362
50A	2	10	2	186	372
50A	3	6.3	2	181	362
50A	4	12.5	2	396	792
50A	5	12.5	2	313	626
50A	6	6.3	2	97	194
50A	7	12.5	2	869	1738
50A	8	12.5	2	368	736
50A	9	6.3	2	202	404
50A	10	6.3	2	181	362
50A	11	6.3	2	202	404
50A	12	6.3	2	199	398
50A	13	10	2	246	492
50A	14	10	2	158	316
50A	15	10	2	429	858
50A	16	10	2	168	336
50A	17	10	2	115	230
50A	18	12.5	1	168	168
50A	19	10	2	429	858
50A	20	10	2	116	232
50A	21	10	1	1163	1163
50A	22	10	2	324	648
50A	23	10	2	412	824
50A	24	10	2	924	1848
50A	25	10	2	115	230
50A	26	6.3	40	122	4880
50A	27	6.3	134	162	21708
50A	28	6.3	2	162	324
50A	29	6.3	6	1183	7098
50A	30	6.3	6	1197	7182
50A	31	6.3	6	1083	6498
50A	32	6.3	2	863	1726
VC1102					
50A	1	6.3	2	255	510
50A	2	10	2	186	372
50A	3	10	2	154	308
50A	4	12.5	2	434	868
50A	5	12.5	2	239	478
50A	6	10	18	162	2916
50A	7	6.3	2	122	244
50A	8	6.3	4	381	1524
50A	9	6.3	2	542	1084
VC1103					
50A	1	10	4	219	876
50A	2	10	4	170	680
50A	3	10	4	170	680
50A	4	6.3	4	126	504
VC1104					
50A	1	6.3	2	180	360
50A	2	12.5	2	155	310
50A	3	10	2	154	308
50A	4	10	2	458	916
50A	5	10	2	265	530
50A	6	12.5	2	115	230
50A	7	6.3	4	437	748
VC1105					
50A	1	10	2	277	554
50A	2	10	2	155	310
50A	3	10	2	155	310
50A	4	6.3	10	122	1220
VC1106					
50A	1	8	2	556	1112
50A	2	12.5	2	313	626
50A	3	12.5	2	380	760
50A	4	6.3	14	231	3234
50A	5	6.3	14	111	1554
50A	6	6.3	4	532	2128
50A	7	6.3	2	258	516
VC1107					
50A	1	6.3	2	312	624
50A	2	12.5	2	148	296
50A	3	12.5	2	146	292
50A	4	6.3	2	312	624
50A	5	12.5	2	286	572
50A	6	6.3	25	144	4176
50A	7	6.3	2	491	982
VC1108					
50A	1	6.3	2	166	332
50A	2	10	2	154	308
50A	3	10	2	154	308
50A	4	10	2	446	892
50A	5	6.3	19	131	2489
50A	6	6.3	25	162	4050
50A	7	6.3	2	362	724
VC1109					
50A	1	12.5	2	277	554
50A	2	10	2	276	552
50A	3	6.3	10	122	1220
VC1110					
50A	1	6.3	2	231	462
50A	2	10	2	170	340
50A	3	10	2	198	396
50A	4	10	2	563	1126
50A	5	6.3	25	162	4050
50A	6	6.3	2	541	1082
VC1111					
50A	1	6.3	2	193	386
50A	2	10	2	170	340
50A	3	10	2	241	482
50A	4	10	2	573	1146
50A	5	6.3	2	138	276
50A	6	6.3	25	162	4050
50A	7	6.3	2	539	1078
VC1112					
50A	1	6.3	2	115	230
50A	2	10	2	241	482
50A	3	10	2	157	314
50A	4	10	2	379	758
50A	5	10	2	1064	2128
50A	6	6.3	45	162	7290
50A	7	6.3	2	383	766
50A	8	6.3	4	269	1076
50A	9	6.3	4	375	1500
50A	10	6.3	2	80	160
50A	11	6.3	1	80	80
50A	12	6.3	1	80	80
50A	13	6.3	1	80	80
50A	14	6.3	1	80	80
50A	15	6.3	4	162	648
50A	16	6.3	2	160	320
50A	17	6.3	4	80	320
50A	18	6.3	1	72	72
50A	19	6.3	1	72	72
50A	20	6.3	1	72	72
50A	21	6.3	1	162	162
50A	22	6.3	1	162	162
50A	23	6.3	1	162	162
50A	24	6.3	1	162	162
50A	25	6.3	1	162	162
50A	26	6.3	1	162	162
50A	27	6.3	1	162	162
50A	28	6.3	1	162	162
50A	29	6.3	1	162	162
50A	30	6.3	1	162	162
50A	31	6.3	1	162	162
50A	32	6.3	1	162	162
50A	33	6.3	1	162	162
50A	34	6.3	1	162	162
50A	35	6.3	1	162	162
50A	36	6.3	1	162	162
50A	37	6.3	1	162	162
50A	38	6.3	1	162	162
50A	39	6.3	1	162	162
50A	40	6.3	1	162	162
50A	41	6.3	1	162	162
50A	42	6.3	1	162	162
50A	43	6.3	1	162	162
50A	44	6.3	1	162	162
50A	45	6.3	1	162	162
50A	46	6.3	1	162	162
50A	47	6.3	1	162	162
50A	48	6.3	1	162	162
50A	49	6.3	1	162	162
50A	50	6.3	1	162	162
50A	51	6.3	1	162	162
50A	52	6.3	1	162	162
50A	53	6.3	1	162	162
50A	54	6.3	1	162	162
VC1113					
50A	1	12.5	2	452	1808
50A	2	12.5	2	275	550
50A	3	12.5	1	269	269
50A	4	6.3	19	204	3876
50A	5	6.3	9	204	1836
50A	6	6.3	1	190	190
50A	7	6.3	9	204	1836
VC1114					
50A	1	16	2	845	1690
50A	2	16	2	410	820
50A	3	12.5	2	566	1132
50A	4	6.3	2	130	260
50A	5	6.3	19	171	3249
50A	6	6.3	54	162	8748
50A	7	6.3	9	177	1416
VC1115					
50A	1	10	2	661	1322
50A	2	10	2	373	746
50A	3	10	2	200	400
50A	4	6.3	54	162	8748
50A	5	6.3	9	1099	9792
50A	6	10	2	648	1296
50A	7	10	2	360	720
50A	8	10	2	648	1296
50A	9	10	2	1066	2132

RESUMO A4-O CA 50-60			
A4-O	BIT	COMPR	PESO
	(mm)	(m)	(kg)
50A	6.3	192	46
50A	10	1	0
50A	12.5	286	100
50A	16	146	149
50A	25	9	22
50A	40	2	12
Peso Total 50A =			818 kg

COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS,BALDRAMES E CONTENCOES (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:

VC1101 A VC1115

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

REV	DATA	DESCRICAO
1	01/08/2014	NUMERACAO FINAL
0	06/03/2013	EMISSAO INICIAL

Simetria Engenharia
SIA QUADRA AC No 53 SALAS 201 A 203
BRASÍLIA-DF CEP: 71200-045
PABX: (0XX61) 3036-9633
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE: GENT INCORPORADORA LTDA
OBRA: ED. RESIDENCIAL/COMERCIAL PAINEIRAS — No OBRA: XXX
ENDEREKCO OBRA: RUA 30 NORTE LOTE 03 - RUA DAS PAINEIRAS - AGUAS CLARAS DF
DESCRICAO: ARMACAO DAS VIGAS PISO 15o PAVIMENTO
TORRE 3 - JUNTA C (01/02)
DESENHO No: BL3 060-076

DESENHISTA	DATA	ESCALA	UNIDADE	No PROJ. SIMETRIA
TQS/ FABIANA	06/03/2013	1:50	CM	478

ARQUIVO PLT: 478 -EST-BL3- 060-076 -R01 -VIG.PLT

PROPRIETARIO: RESPONSAVEL TECNICO

RESPONSAVEL TECNICO PELO PROJETO ESTRUTURAL
SIMETRIA ENGENHARIA E PROJETOS S/C LTDA
CREA:2725/RF

SIMETRIA ENGENHARIA DE PROJETOS S/C LTDA PLT:E:\TQS\WorkFF - COSMOPOLITAN - TORRE 3 - JUNTA C\12\15\PAVIMCAS\VIGAS\01.PLT 01/08/2014 12:22:25