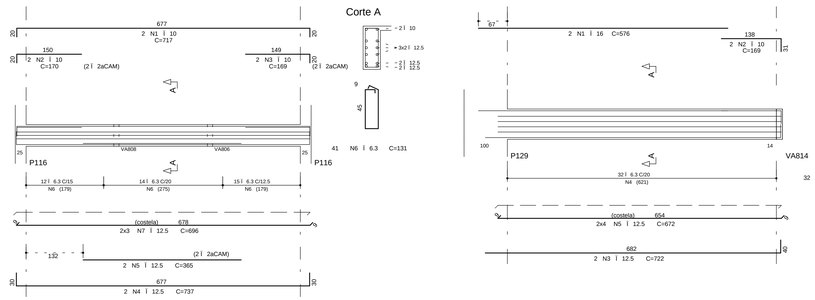
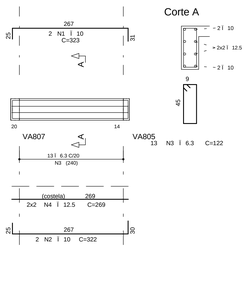
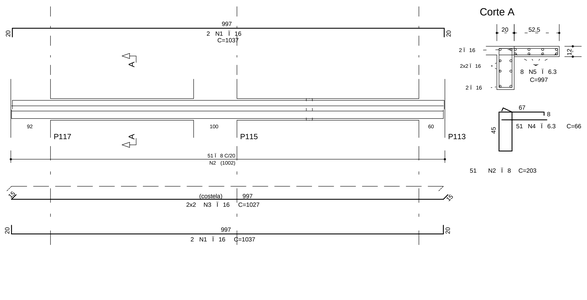
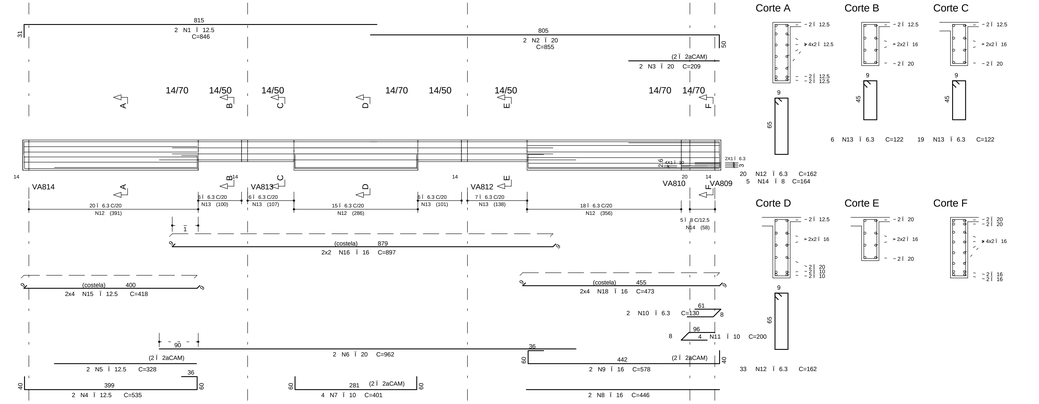


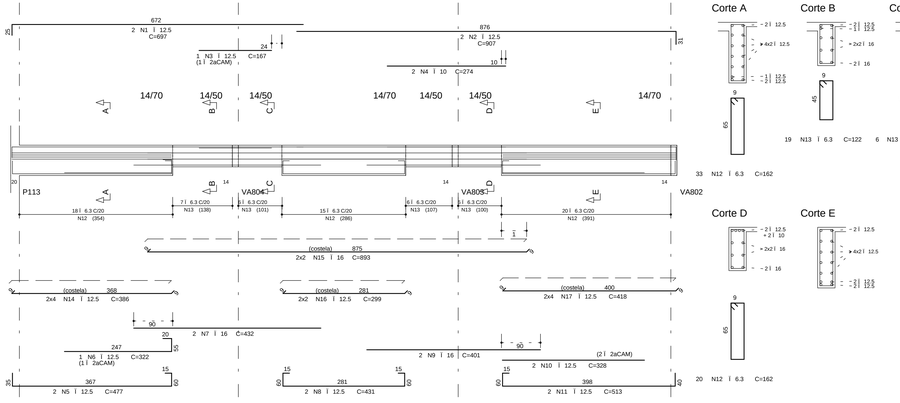




	AÇO	POS	BIT (mm)	QUANT.	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VA818	50A	1	10	2	717	1434
	50A	2	10	2	170	340
	50A	3	12.5	2	169	338
	50A	4	12.5	2	229	458
	50A	5	12.5	2	365	730
	50A	6	12.5	41	131	5371
VA819	50A	1	16	2	576	1152
	50A	2	10	2	169	338
	50A	3	12.5	2	722	1444
	50A	4	6.3	32	162	5184
	50A	5	12.5	2	672	1344
VA820	50A	1	16	2	576	1152
	50A	2	10	2	170	340
	50A	3	10	2	702	1404
	50A	4	10	2	442	884
	50A	5	10	2	699	1374
	50A	6	10	38	173	6574
VA821	50A	1	10	2	322	644
	50A	2	10	2	322	644
	50A	3	12.5	2	269	538
	50A	4	6.3	13	122	1586
VA822	50A	1	12.5	2	896	1792
	50A	2	20	2	855	1710
	50A	3	20	2	209	418
	50A	4	12.5	2	897	1794
	50A	5	12.5	2	326	652
	50A	6	20	2	962	1924
	50A	7	12.5	2	328	656
	50A	8	10	2	446	892
	50A	9	16	2	578	1156
	50A	10	12.5	2	535	1070
	50A	11	10	4	401	1604
	50A	12	6.3	51	162	8586
	50A	13	6.3	10	200	2000
	50A	14	6.3	8	164	1312
	50A	15	12.5	8	418	3344
	50A	16	16	8	897	7176
	50A	18	10	8	473	3784
VA823	50A	1	12.5	2	897	1794
	50A	2	12.5	2	907	1814
	50A	3	12.5	2	274	548
	50A	4	10	2	274	548
	50A	5	12.5	2	477	954
	50A	6	12.5	2	432	864
	50A	7	10	2	432	864
	50A	8	12.5	2	401	802
	50A	9	10	2	401	802
	50A	10	12.5	2	326	652
	50A	11	12.5	2	513	1026
	50A	12	6.3	51	162	8586
	50A	13	6.3	20	122	2440
	50A	14	12.5	8	386	3088
	50A	15	12.5	8	418	3344
	50A	16	12.5	4	299	1196
	50A	17	12.5	8	418	3344
VA824	50A	1	8	51	203	10353
	50A	2	16	2	997	1994
	50A	3	16	2	1037	2074
	50A	4	6.3	67	66	4422
VA825=VA829=VA830=VA834 (X4)	50A	1	6.3	4	198	1188
	50A	2	10	8	240	1920
	50A	3	10	8	524	4192
	50A	4	6.3	23	122	8372
VA826=VA827=VA828=VA831=VA832=VA833 (X2)	50A	1	10	12	557	6684
	50A	2	6.3	12	122	1464
	50A	3	6.3	22	122	2684
VA835=VA836=VA843=VA844 (X4)	50A	1	6.3	8	229	1832
	50A	2	10	8	182	1456
	50A	3	10	8	229	1832
	50A	4	10	8	507	4056
	50A	5	6.3	8	131	1048
	50A	6	6.3	44	131	5764
VA841=VA837=VA838=VA839=VA840=VA842 (X2)	50A	1	6.3	12	261	3132
	50A	2	10	12	154	1848
	50A	3	10	12	154	1848
	50A	4	10	12	535	6420
	50A	5	6.3	12	122	1464
VASE801	50A	1	12.5	2	438	876
	50A	2	10	2	334	668
	50A	3	10	2	412	824
	50A	4	6.3	17	190	3230
	50A	5	12.5	8	400	3200

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
50A	6.3	1.22	0.25
50A	8	172	75
50A	10	529	326
50A	12.5	1.07	1.03
50A	16	304	480
50A	20	41	101
Peso Total 50A =			1651 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

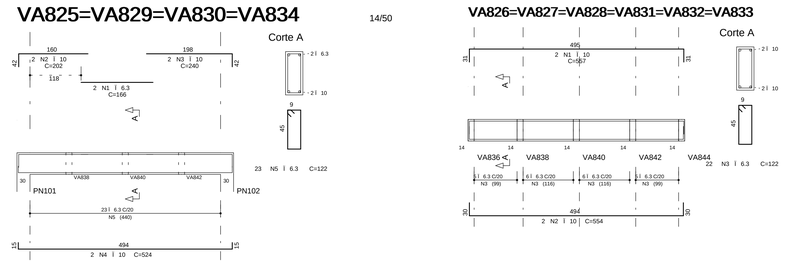
INDICE:

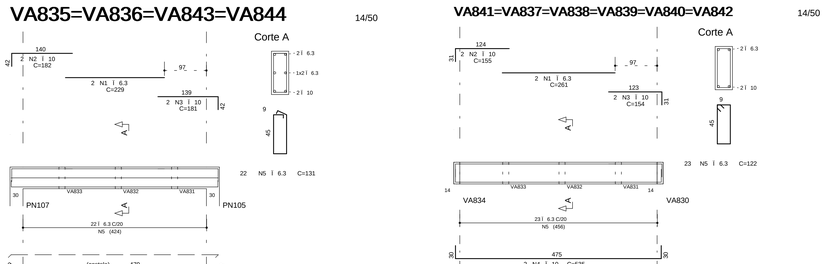
VA818 A VA844 / VASE801

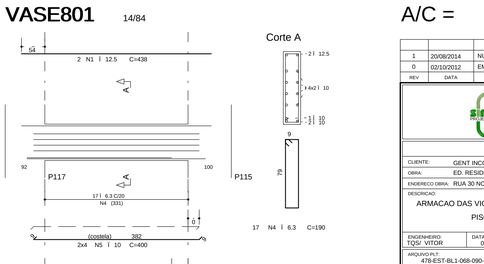
FCK= 35 MPa

EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

A/C = 0,65 (FATOR AGUA CIMENTO)







REV	DATA	DESCRICAO
1	20/08/2014	NUMERACAO FINAL
0	02/10/2012	EMISSAO INICIAL

Simetria Engenharia
SIA QUADRA 4C lot.31 SALAS 01 a 07
BRASILIA-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:
ENDEREOCO OBRA: RUA 30 NORTE LOTE 03 - RUA DAS PAINEIRAS - AGUAS CLARAS DF
DESCRICAO: ARMACAO DAS VIGAS - TORRE 1 - JUNTA A
PISO 4o PAVIMENTO (02/02)
DESENHO No: BL1 068-090

ENGENHEIRO	DATA	ESCALA	UNIDADE	No PROJ. SIMETRIA
TQSI/ VITOR	02/10/2012	1:50	CM	478

ARQUIVO PLT: 478-EST-BL1-068-090-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 PLT:C:\GWINWB\ - C:\SIMPROJ\DATAN - TORRE 1 - JUNTA A\068-090 PAVIMENTO\DOS\PLT\20082014 15:07:54