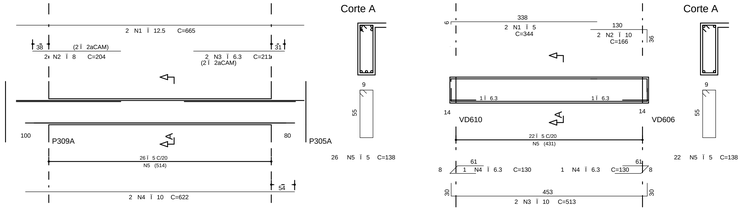
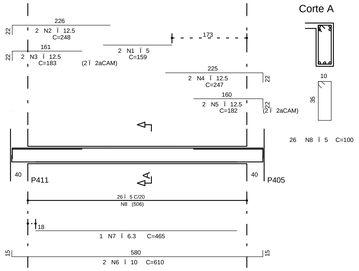
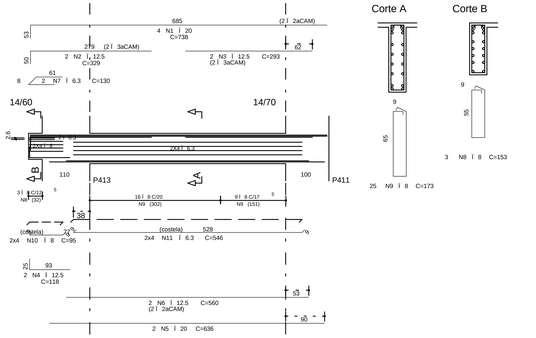
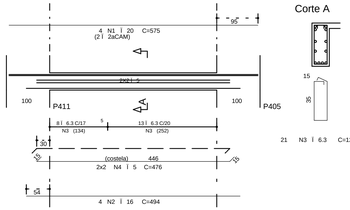




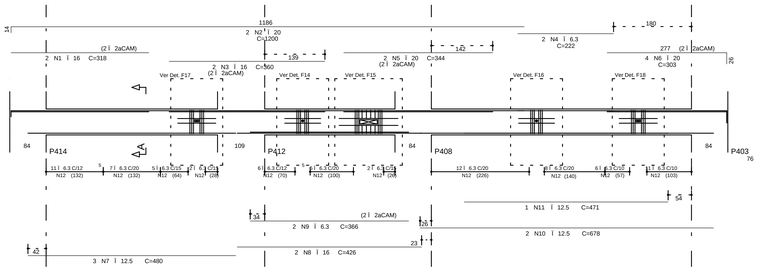


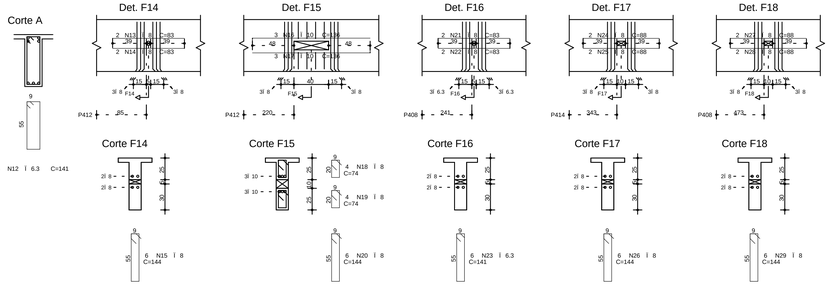


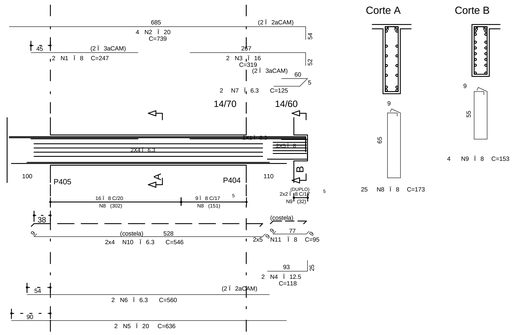
A4 O	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VD614 (A15)					
SOA	1	12.5	20	665	13300
SOA	2	6.3	20	204	4080
SOA	3	6.3	20	211	4220
SOA	4	5	20	138	2760
SOA	5	5	20	138	2760
VD617 (A15)					
SOA	1	5	20	344	6880
SOA	2	10	20	166	3320
SOA	3	6.3	20	130	2600
SOA	4	5	20	138	2760
SOA	5	5	20	138	2760
VD618 (A15)					
SOA	1	16	20	318	6360
SOA	2	20	20	1200	24000
SOA	3	16	20	560	11200
SOA	4	6.3	20	222	4440
SOA	5	20	20	344	6880
SOA	6	20	20	142	2840
SOA	7	12.5	80	280	22400
SOA	8	16	20	638	12760
SOA	9	6.3	20	303	6060
SOA	10	12.5	20	678	13560
SOA	11	12.5	10	471	4710
SOA	12	6.3	20	366	7320
SOA	13	6.3	20	678	13560
SOA	14	6	20	83	1660
SOA	15	6	20	426	8520
SOA	16	6.3	20	426	8520
SOA	17	10	80	138	4080
SOA	18	10	80	74	2960
SOA	19	6	80	144	8640
SOA	20	6	80	144	8640
SOA	21	6	80	98	1760
SOA	22	6.3	80	141	8460
SOA	23	6.3	80	141	8460
SOA	24	5	20	88	1760
SOA	25	6	20	160	3200
SOA	26	5	20	138	2760
SOA	27	5	20	98	1760
SOA	28	5	20	88	1760
SOA	29	5	20	138	2760
VD619 (A15)					
SOB	1	12.5	20	248	4960
SOB	2	12.5	20	183	3660
SOB	3	12.5	20	159	3180
SOB	4	12.5	20	247	4940
SOB	5	12.5	20	182	3640
SOB	6	5	20	100	2000
SOA	1	5	20	431	8620
SOA	2	20	20	506	10120
SOA	3	6.3	20	465	9300
SOA	4	10	20	610	12200
SOA	5	10	20	513	10260
VD620 (A15)					
SOA	1	20	40	738	29520
SOA	2	6.3	20	219	4380
SOA	3	6.3	20	219	4380
SOA	4	20	20	293	5860
SOA	5	12.5	20	329	6580
SOA	6	6.3	20	130	2600
SOA	7	6.3	20	638	12760
SOA	8	6.3	20	560	11200
SOA	9	8	20	302	6040
SOA	10	8	20	173	3460
SOA	11	8	20	173	3460
SOA	12	8	40	153	6120
SOA	13	8	20	153	3060
SOA	14	8	20	153	3060
VD621 (A15)					
SOA	1	20	40	575	23000
SOA	2	20	20	476	9520
SOA	3	20	20	494	9880
SOA	4	8	20	128	2560
SOA	5	8	20	128	2560
VD622 (A15)					
SOA	1	8	20	247	4940
SOA	2	16	40	494	19760
SOA	3	6.3	20	125	2500
SOA	4	8	40	173	6920
VD623 (A15)					
SOA	1	10	20	479	9580
SOA	2	20	20	468	9360
SOB	1	10	20	479	9580
VD624 (A15)					
SOA	1	20	40	411	16440
SOA	2	20	20	377	7540
SOA	3	8	20	160	3200
SOA	4	6.3	20	332	6640
SOA	5	6.3	20	332	6640
VD625 (A15)					
SOA	1	20	40	411	16440
SOA	2	20	20	377	7540
SOA	3	12.5	20	332	6640
SOA	4	8	20	160	3200
SOA	5	6.3	20	332	6640
VD626 (A15)					
SOA	1	10	20	479	9580
SOA	2	6.3	20	210	4200
SOA	3	5	40	402	16080
VD627 (A15)					
SOA	1	10	20	479	9580
SOA	2	10	20	468	9360
SOA	3	6.3	20	210	4200
SOA	4	5	40	402	16080
VSED601 (A15)					
SOA	1	12.5	40	217	8680
SOA	2	6.3	20	150	3000
SOA	3	6.3	20	150	3000
SOA	4	5	40	148	5920

RESUMO A4 O CA 50-60

A4 O	BIT (mm)	COMPR (m)	PESO (kg)
SOB	5	1488	368
SOA	5,0	1448	812
SOA	6	3065	1238
SOA	8	1730	1365
SOA	12,5	1053	1662
SOA	16	482	772
SOA	20	3642	3605
Peso Total:	CA 50 =		2924 kg
Peso Total:	SOA =		8021 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

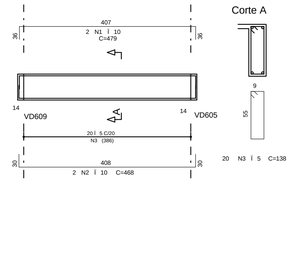
INDICE:

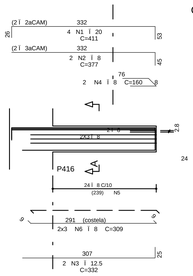
VD616 A VD627, VSED601

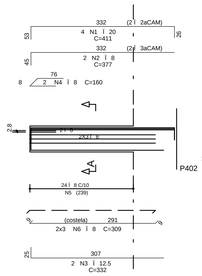
FCK= 35 MPa

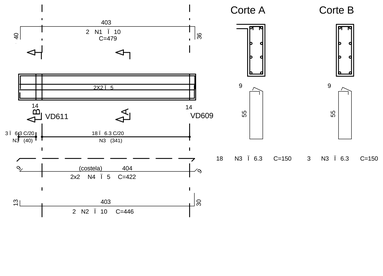
EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

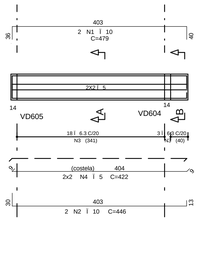
A/C = 0,65 (FATOR AGUA CIMENTO)

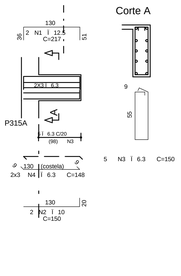












REV	DATA	DESCRICAO
0	18/10/2010	EMISSAO INICIAL

Simetria Engenharia
Rua QI-09/01, 40 Sq.01 SMLNR STA A SRI
BRASILIA-DF CEP: 71200-045
PABX: (0XX61) 3036-9610
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE:	DISCO INCORPORADORA E IMOBILIARIA LTDA
OBRA:	EDIFICIO RESIDENCIAL OLYMPIQUE — No OBRA:
ENDEREOO OBRA:	SRIA AREA ESPECIAL 04, LOTES G e H, GUARA-DF
DESCRICAO:	ARMA€ e O DE VIGAS - TORRE B - JUNTA D VIGAS DO 7o AO 16o PAVIMENTO (02/02)
DESENHO No:	400-XXX
DESENHISTA: TQS/ J.HENRIQUE	DATA: 18/10/2010 — ESCALA: 1:50 — UNIDADE: CM — No PROJ. SIMETRIA: 421
ARQUIVO PLT:	421 -EST-400-XXX -R00 .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 R: C:\TQSWIN\CAD\PCE\JUNTA\D - TORRE B\D-7o AO 16o PAVIMENTOS\DISTRIBUICAO\02-VIGAS\PLT 18/10/2010 19:41:46