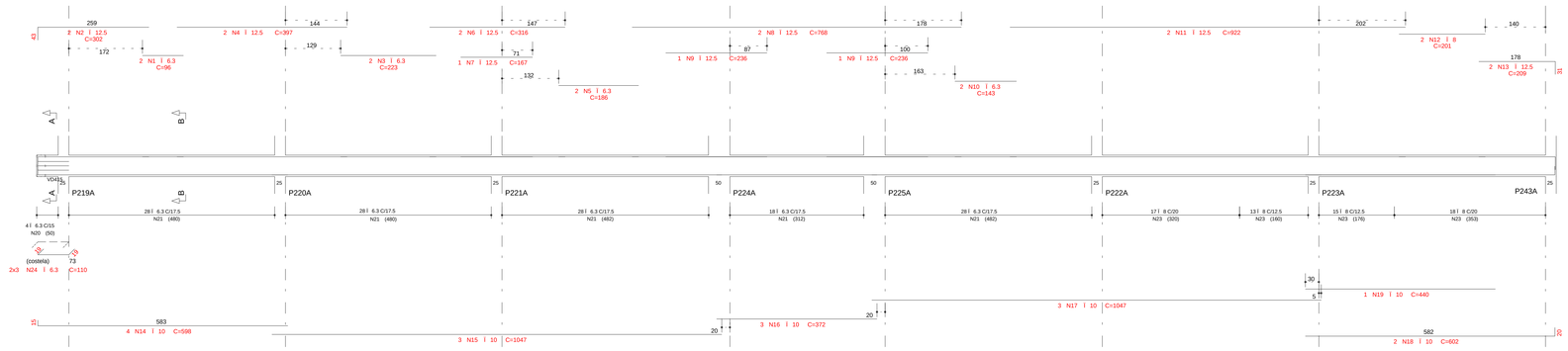

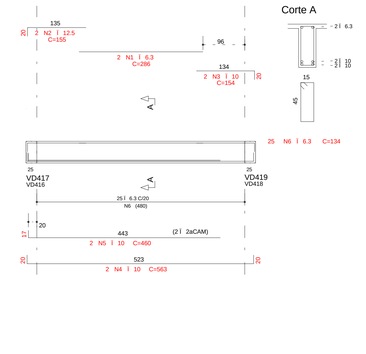

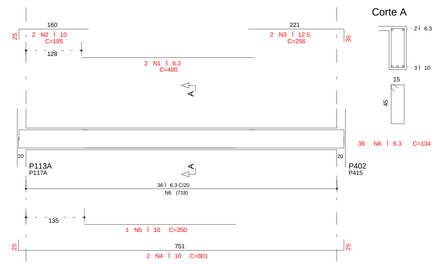

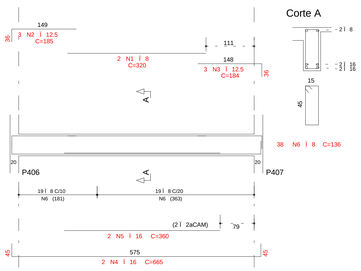

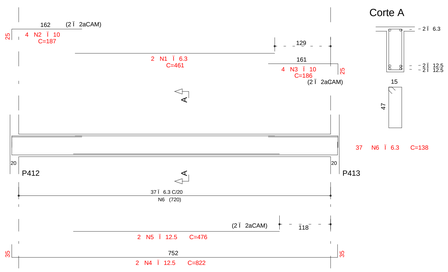

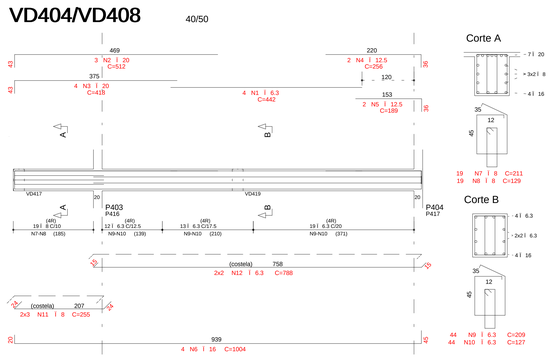

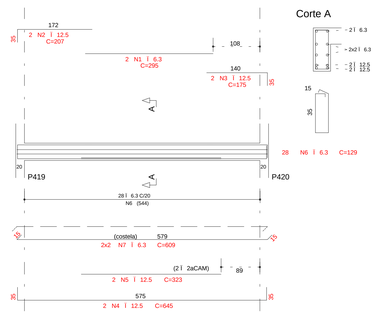

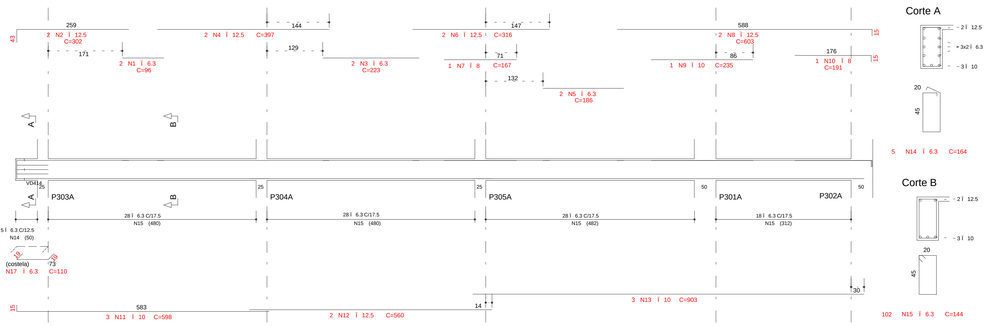

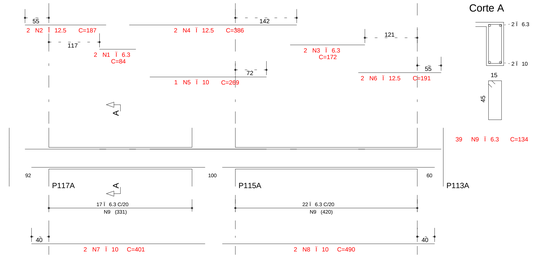

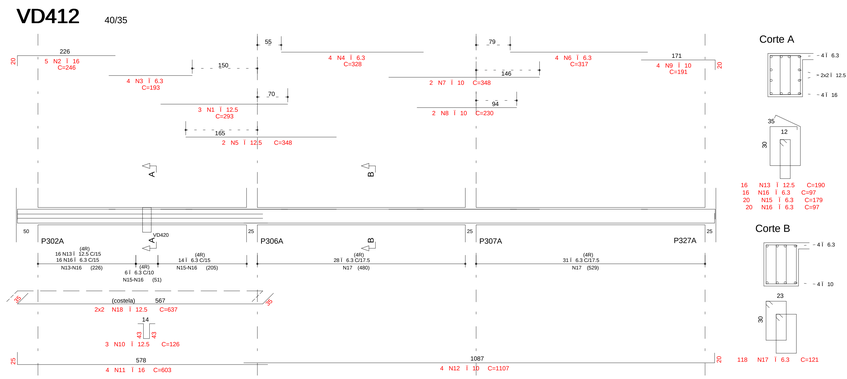

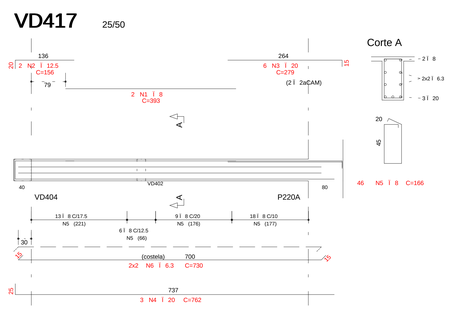

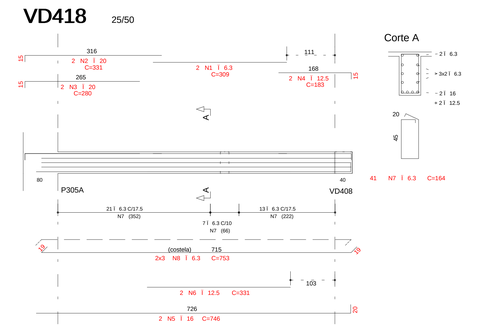

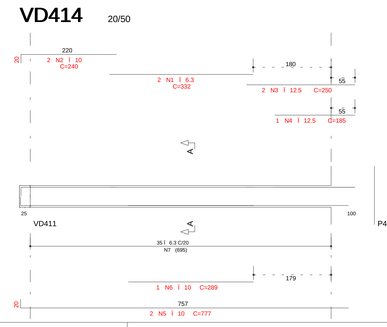

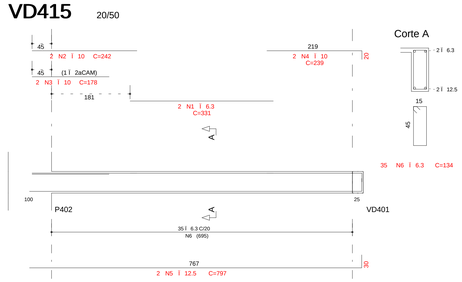

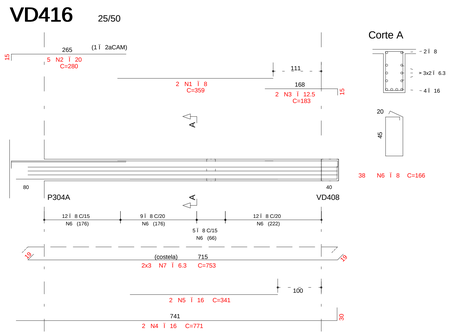

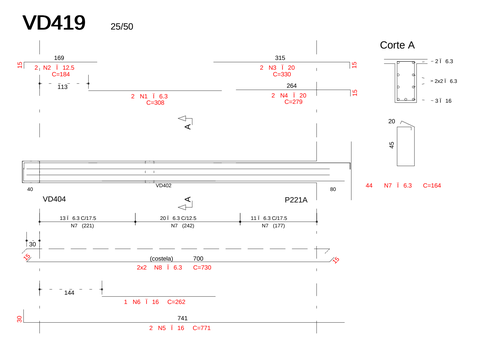

	A4 O	POS	BIT (mm)	QUANT.	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
VD401						
	50A	1	6.3	2	36	192
	50A	2	12.5	2	352	704
	50A	3	6.3	2	223	446
	50A	4	12.5	2	397	794
	50A	5	6.3	2	96	372
	50A	6	12.5	2	316	632
	50A	7	12.5	2	167	334
	50A	8	12.5	2	236	472
	50A	9	12.5	2	236	472
	50A	10	12.5	2	922	1844
	50A	11	12.5	2	768	1536
	50A	12	8	2	201	402
	50A	13	12.5	2	209	418
	50A	14	10	4	598	2392
	50A	15	10	3	1047	3141
	50A	16	10	3	372	1116
	50A	17	10	3	1047	3141
	50A	18	10	1	602	1204
	50A	19	10	1	440	880
	50A	20	6.3	4	144	576
	50A	21	6.3	130	144	18720
	50A	22	6.3	8	146	1168
	50A	23	6.3	5	110	550
VD402/VD410 (X2)						
	50A	1	6.3	4	286	1144
	50A	2	12.5	4	135	540
	50A	3	10	4	154	616
	50A	4	6.3	4	460	1840
	50A	5	10	4	563	2252
	50A	6	6.3	50	134	6700
VD403/VD407 (X2)						
	50A	1	6.3	4	400	1600
	50A	2	12.5	4	185	740
	50A	3	12.5	4	256	1024
	50A	4	10	4	801	3204
	50A	5	10	4	350	1400
	50A	6	6.3	72	134	9648
VD404/VD408 (X2)						
	50A	1	6.3	8	442	3536
	50A	2	20	8	512	4096
	50A	3	20	8	418	3344
	50A	4	12.5	8	375	3000
	50A	5	12.5	4	188	752
	50A	6	10	8	1004	8032
	50A	7	6.3	8	788	6304
	50A	8	8	4	39	156
	50A	9	6.3	88	209	18392
	50A	10	6.3	88	127	11176
	50A	11	8	4	255	1020
	50A	12	6.3	8	798	6384
VD405						
	50A	1	6	2	120	240
	50A	2	12.5	2	185	370
	50A	3	12.5	2	184	368
	50A	4	16	2	365	730
	50A	5	8	2	136	272
	50A	6	6.3	36	136	5168
VD406						
	50A	1	6.3	2	461	922
	50A	2	10	4	187	748
	50A	3	10	4	186	744
	50A	4	12.5	2	187	374
	50A	5	12.5	2	475	950
	50A	6	6.3	37	138	5106
VD409						
	50A	1	6.3	2	295	590
	50A	2	12.5	2	207	414
	50A	3	12.5	2	175	350
	50A	4	12.5	2	545	1090
	50A	5	12.5	2	295	590
	50A	6	6.3	28	129	3612
	50A	7	6.3	4	309	1236
VD411						
	50A	1	6.3	2	302	604
	50A	2	12.5	2	302	604
	50A	3	6.3	2	295	590
	50A	4	12.5	2	897	794
	50A	5	6.3	2	186	372
	50A	6	12.5	2	316	632
	50A	7	8	1	167	167
	50A	8	12.5	1	903	1126
	50A	9	12.5	1	903	1126
	50A	10	8	1	191	191
	50A	11	10	2	598	1794
	50A	12	12.5	2	588	1176
	50A	13	10	2	603	1206
	50A	14	6.3	1	164	820
	50A	15	6.3	192	164	31488
	50A	16	6.3	8	110	880
VD412						
	50A	1	16	5	246	1230
	50A	2	16	5	248	1240
	50A	3	6.3	4	326	1304
	50A	4	12.5	2	348	696
	50A	5	12.5	2	348	696
	50A	6	10	2	348	696
	50A	7	10	2	348	696
	50A	8	10	2	230	460
	50A	9	10	2	230	460
	50A	10	12.5	3	126	378
	50A	11	10	4	603	2412
	50A	12	10	4	603	2412
	50A	13	12.5	8	180	8640
	50A	14	6.3	20	179	3580
	50A	15	6.3	20	179	3580
	50A	16	6.3	119	121	14378
	50A	17	6.3	119	121	14378
	50A	18	12.5	4	537	2148
VD413						
	50A	1	8	2	187	374
	50A	2	12.5	2	187	374
	50A	3	6.3	2	123	246
	50A	4	12.5	2	123	246
	50A	5	10	1	289	289
	50A	6	12.5	2	289	578
	50A	7	10	2	480	960
	50A	8	10	2	480	960
	50A	9	6.3	20	134	5360
VD414						
	50A	1	6.3	2	332	664
	50A	2	12.5	2	240	480
	50A	3	12.5	2	230	460
	50A	4	12.5	2	230	460
	50A	5	10	1	177	177
	50A	6	10	1	299	299
	50A	7	6.3	1	134	804
VD415						
	50A	1	10	2	242	484
	50A	2	10	2	178	356
	50A	3	10	2	239	478
	50A	4	12.5	2	767	1534
	50A	5	6.3	35	134	4690
VD416						
	50A	1	8	2	718	1436
	50A	2	10	5	280	1400
	50A	3	12.5	2	280	560
	50A	4	10	2	771	1542
	50A	5	10	2	341	682
	50A	6	10	2	341	682
	50A	7	6.3	8	753	6024
VD417						
	50A	1	8	2	393	786
	50A	2	12.5	2	196	392
	50A	3	20	6	279	1674
	50A	4	8	2	166	332
	50A	5	8	46	166	7636
	50A	6	6.3	4	730	2920
VD418						
	50A	1	6.3	2	309	618
	50A	2	12.5	2	331	662
	50A	3	20	2	280	560
	50A	4	12.5	2	183	366
	50A	5	10	2	331	662
	50A	6	12.5	2	164	328
	50A	7	6.3	41	164	6724
	50A	8	6.3	41	164	6724
VD419						
	50A	1	6.3	2	308	616
	50A	2	12.5	2	184	368
	50A	3	20	2	330	660
	50A	4	20	2	279	558
	50A	5	12.5	2	279	558
	50A	6	16	1	262	262
	50A	7	6.3	44	164	7216
	50A	8	6.3	4	262	1048

RESUMO A4 O CA 50-60				
A4 O	BIT (mm)	COMPR (m)		PESO (kg)
50A	6	1.00		0.37
50A	8	470		185
50A	10	281		245
50A	12.5	2.00		2.47
50A	16	192		302
50A	20	142		345
Peso Total 50A =				1081 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 ESPECIFICADOS 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

INDICE:

VD401 A VD419

FCK= 35 MPa

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

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

REV	DATA	DESCRICAO
1	02/09/2014	NUMERACAO FINAL
0	20/03/2013	EMISSAO INICIAL

Simetria Engenharia
SIA QUADRA 3D NI 31 SALAS 201 E 203
BRASILIA-DF CEP: 71200-045
FIXO: (0XX61) 3036-9400
simetria@simetria.eng.br

PROJETO ESTRUTURAL

CLIENTE:	GENT INCORPORADORA LTDA		
OBRA:	ED. RESIDENCIAL/COMERCIAL PAINEIRAS	No OBRA:	XXX
ENDEREOO OBRA:	RUA 30 NORTE LOTE 03 - RUA DAS PAINEIRAS - AGUAS CLARAS DF		
DESCRICAO	ARMACAO DAS VIGAS - EMBASAMENTO - JUNTA D SOBRELOJA (01/02)	DESENHO No:	BL4 027-052
DESENHISTA: TQS/ PRISCILLA	DATA: 20/03/2013	ESCALA: 1:50	UNIDADE: CM
No PROJ. SIMETRIA: 478			

ARQUIVO R.T.: 478 -EST-BL4- 027-052 -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 Pt. C:\TQS\WINNT\ - CODIGO/POLITAN - EMBAS - JUNTA D/SOS SOBRE LOJA\VIGAS\VIGAS01.PLT 02/09/2014 08:13:43