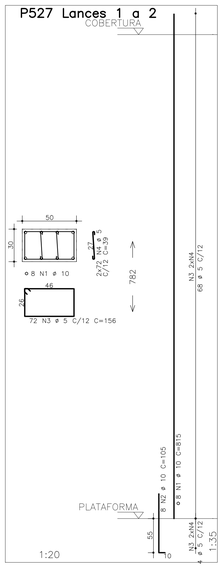
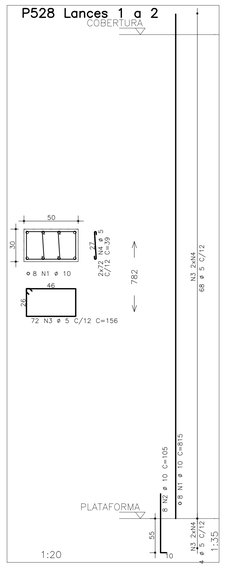
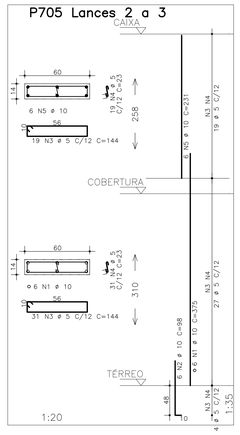
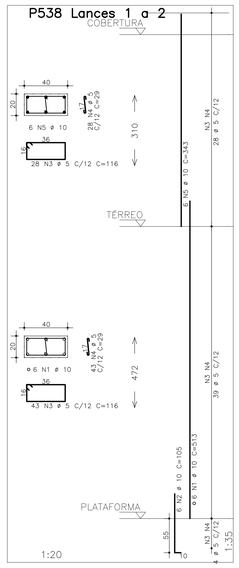
RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	1018	163
50A	10	484	305
50A	12.5	96	96
Peso Total	60B =		163 kg
Peso Total	50A =		401 kg

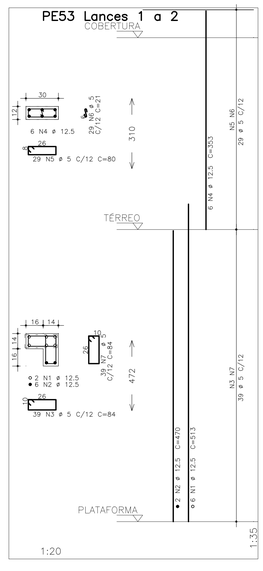
AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
PE53 Lances 1 a 2					
50A	1	12.5	6	513	3078
50A	2	12.5	2	470	940
60B	3	5	39	84	3276
50A	4	12.5	6	353	2118
60B	5	5	29	80	2320
60B	6	5	29	21	609
60B	7	5	39	84	3276
PE61 Lances 1 a 2					
50A	1	12.5	4	513	2052
60B	2	5	68	86	5848
50A	3	12.5	4	353	1412
P527 Lances 1 a 2					
50A	1	10	8	815	6520
50A	2	10	8	105	840
60B	3	5	72	156	11232
60B	4	5	144	39	5616
P528 Lances 1 a 2					
50A	1	10	8	815	6520
50A	2	10	8	105	840
60B	3	5	72	156	11232
60B	4	5	144	39	5616
P529 Lance 1					
50A	1	10	8	156	1248
50A	2	10	8	105	840
60B	3	5	17	136	2312
60B	4	5	34	29	986
P530 Lance 1					
50A	1	10	8	313	2504
50A	2	10	8	105	840
60B	3	5	30	136	4080
60B	4	5	60	29	1740
P538 Lances 1 a 2					
50A	1	10	6	513	3078
50A	2	10	6	105	630
60B	3	5	71	116	8236
60B	4	5	71	29	2059
50A	5	10	6	343	2058
P605 Lance 2					
50A	1	10	6	308	1848
50A	2	10	6	105	630
60B	3	5	29	104	3016
60B	4	5	29	23	667
P606 Lance 2					
50A	1	10	6	308	1848
50A	2	10	6	105	630
60B	3	5	29	104	3016
60B	4	5	29	23	667
P701 Lance 2					
50A	1	10	6	333	1998
50A	2	10	6	105	630
60B	3	5	31	100	3100
60B	4	5	31	21	651
P702 Lance 2					
50A	1	10	4	333	1332
50A	2	10	4	98	392
60B	3	5	31	56	1736
P703 Lance 2					
50A	1	10	6	333	1998
50A	2	10	6	98	588
60B	3	5	31	80	2480
60B	4	5	31	21	651
P704 Lance 2					
50A	1	10	4	308	1232
50A	2	10	4	98	392
60B	3	5	29	84	2436
P705 Lances 2 a 3					
50A	1	10	6	375	2250
50A	2	10	6	98	588
60B	3	5	50	144	7200
60B	4	5	50	23	1150
50A	5	10	6	231	1386
P706 Lance 2					
50A	1	10	8	333	2664
50A	2	10	8	98	784
60B	3	5	31	104	3224
60B	4	5	62	23	1426
P803 Lance 3					
50A	1	10	4	231	924
50A	2	10	4	108	324
60B	3	5	23	84	1932

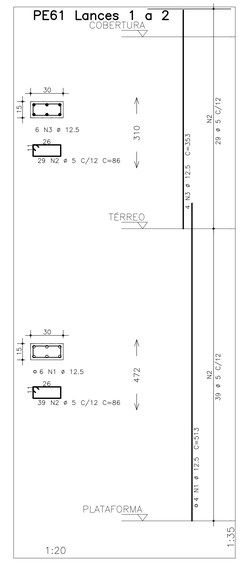


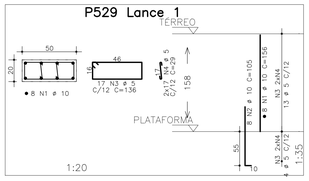


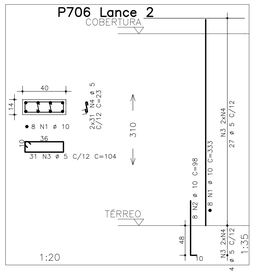


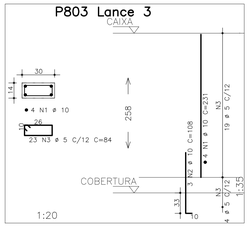


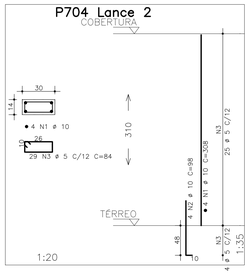


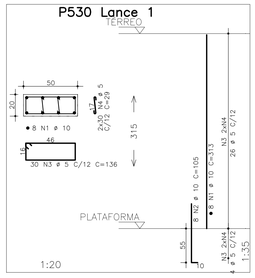


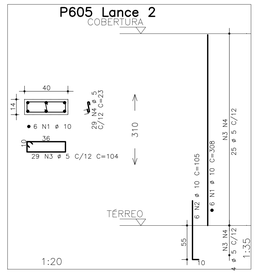


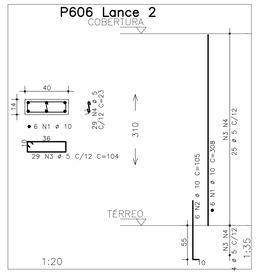


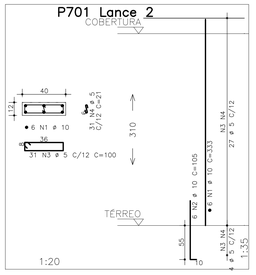


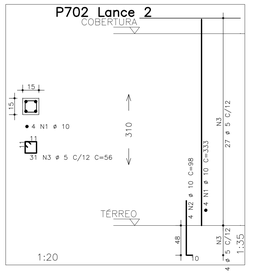


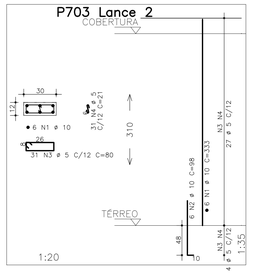












NOTAS IMPORTANTES:

FATOR ÁGUA CIMENTO MÁXIMO = 0,6

CONCRETO: fck = 25 MPa
- CONSUMO MINIMO DE CIMENTO = 350 kg/m3
- DIÂMETRO CARACTERÍSTICO DO AGREGADO:
  : vigas e lajes – brita 1 com ø < 19 mm
  : pilares – brita 1 e brita 2 com ø < 25 mm
  : blocos – brita 1, brita 2 e brita 3 com ø < 38 mm
- MÓDULO DE ELASTICIDADE MINIMO NA IDADE DA DESFORMA – E > 21 GPa

COBRIMENTO DA ARMADURA:

Classe de agressividade ambiental 2
- CORTINAS:
  : face externa – 3 cm
  : face interna – 2 cm
- LAJES MACIÇAS – 2 cm
- NERVURAS DE LAJES NERVURADAS – 2 cm
- VIGAS – 2,5 cm
- PILARES – 2,5 cm
- BLOCOS E BALDRAMES – 3 cm

* ESSES COBRIMENTOS TERÃO RIGIDO CONTROLE. DEVERÃO SER GARANTIDOS COM O USO DE ESPAÇADORES

NORMAS UTILIZADAS:
- NBR 6118 – PROJETO DE ESTRUTURAS DE CONCRETO – PROCEDIMENTO
- NBR 6120 – CARGAS PARA O CÁLCULO DE ESTRUTURAS DE EDIFICAÇÕES
- NBR 6123 – FORÇAS DEVIDAS AO VENTO EM EDIFICAÇÕES
- NBR 12655– CONCRETO– CONTROLE , PREPARO E RECEBIMENTO

Nº	MODIFICACAO	DATA	FEITO	VISTO	APROVO	DATA	APROVO
NA4							
NA3							
NA2	MODIFICAR ê O.02	20/10/13					
NA1	MODIFICAR ê O.PARECER.NÃ©68/13	20/08/13					

CONTRATADA

METRO-DF

METRÔ-DF	Metroqu4ttro projetos e consultoria
453	
SETOR	ÁGUAS CLARAS-DF
ENDEREÇO	ESTAÇÃO 16 LINHA 01
PROPRIETARIO	METRO-DF
AUTOR DO PROJETO	Luiz Cesar M. Gottschall
RESPONSAVEL TECNICO	

PROPRIETARIO	METRÔ-DF
AUTOR	Luiz Cesar M. Gottschall — CREA – 3575/D DF
RESPONSAVEL	

METRO-DF

VISTO	DATA
APROVO	DATA
ESCALA 1:25	ETAPA DE PROJ. EXECUTIVO
Nº MICROFILME	FOLHA EST-037

UNIDADE DE CONSTRUCAO	ESTAÇÃO ARNIQUEIRAS
LOCAL	ÁGUAS CLARAS
ESPECIALIDADE/SUBESPECIALIDADE	PROJETO ESTRUTURAL
TIPO/ESPECIFICACAO DO DOCUMENTO	ARMAê O DOS PILARES (03/03) FCK - 25.0 MPa
AREA DE CONSTRUCAO	m|
DATA	20/10/13
CODIFICACAO	DE.6/16.3M/H1.037
REVISAO	0A

COB	PEÇA	ESPES.
1	7	0,20
2	7	0,20
3	7	0,20
4	7	0,60
5	7	0,60
6	7	0,60
7	7	0,70
8	7	0,70
9	7	0,70
10	7	0,70
11	7	0,75
12	7	0,75
13	7	0,75
14	7	0,80
15	7	0,80
16	7	0,80
17	7	0,70
18	7	0,70
19	7	0,70
20	7	0,20
21	7	0,20
22	7	0,20
23	7	0,20
254	7	0,20
255	7	0,20
256	7	0,20