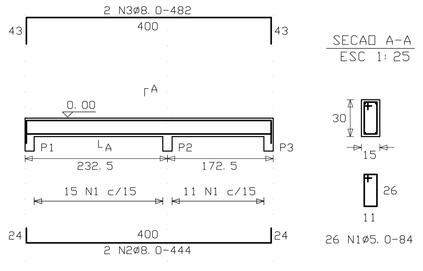
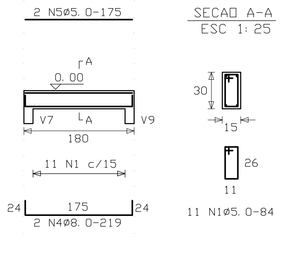
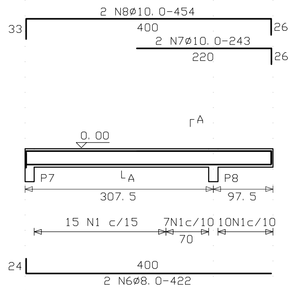
V1=V2=V5
1:50



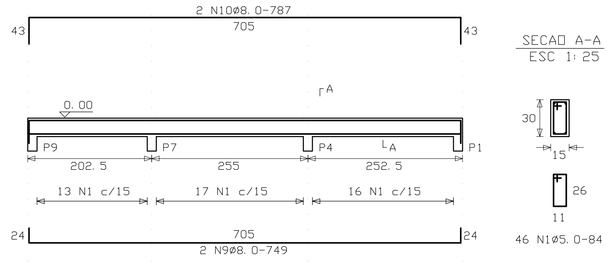
V3
1:50



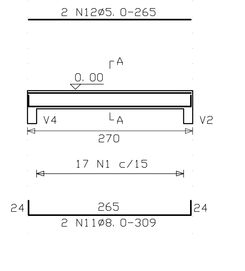
V4
1:50



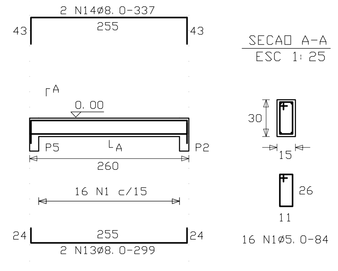
V6=V10
1:50



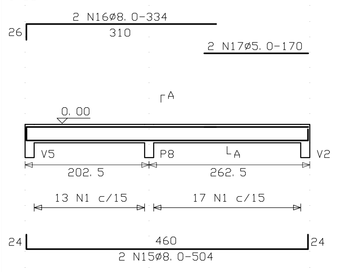
V7
1:50



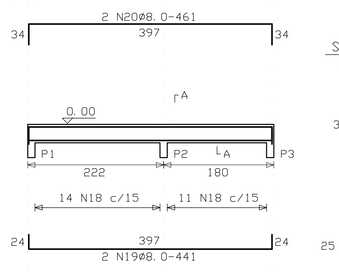
V8
1:50



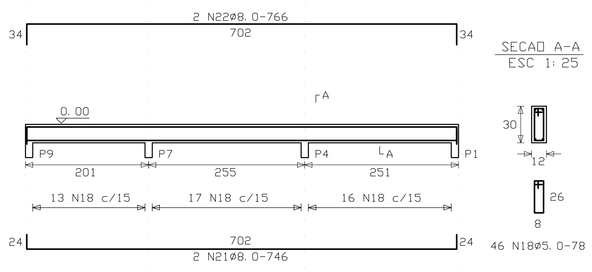
V9
1:50



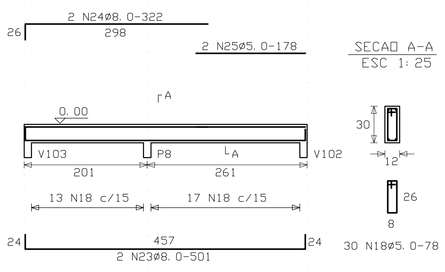
V101=V102=V103
1:50



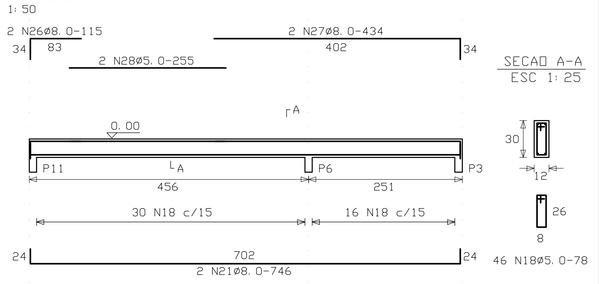
V104
1:50

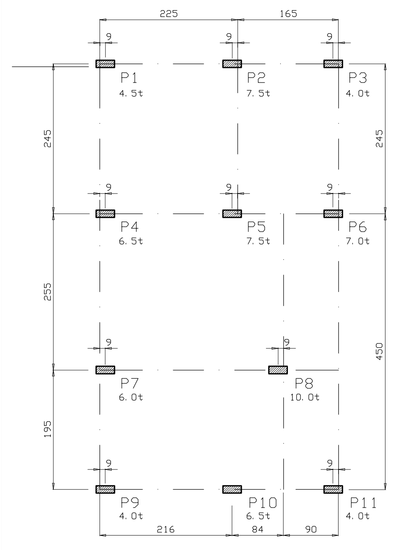


V105
1:50

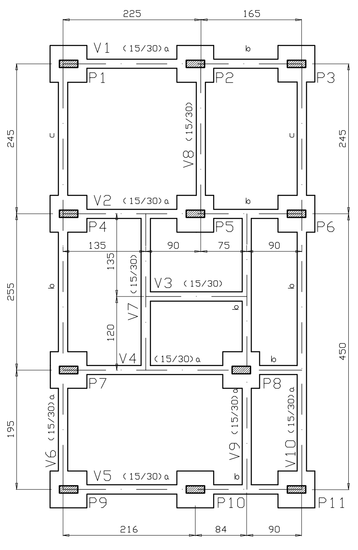


V106
1:50

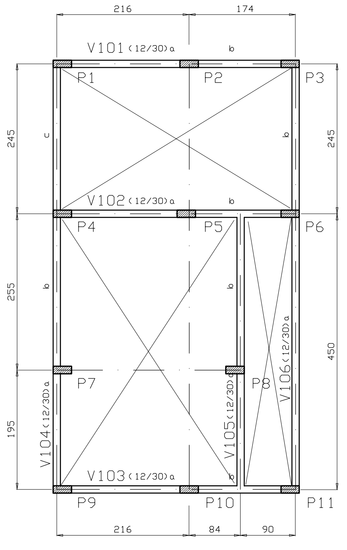




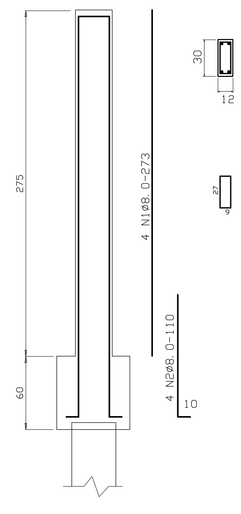
LOCACAO E CARGAS
ESC. 1:50



BALDRAMES
ESC. 1:50



COBERTURA
ESC. 1:50



PILARES (11x)
ESC. 1:25

RELACAO DO ACO

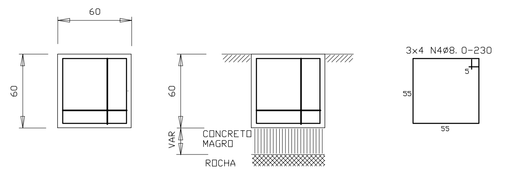
ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50B	1	8.0	44	273	12012
	2 a 4	8.0	44	110	4840
		8.0	132	230	30360
60	3	5.0	198	82	16236

RESUMO DO ACO - PILAR E BLOCO

ACO	DIAM.	C. TOTAL (m)	PESO+ 5% (kgf)
CA50B	8.0	472.1	198
CA60	5.0	162.4	28

PESO TOTAL	
CA50B	198 kgf
CA60	28 kgf

Vol. concreto total = 3.50 m3
Area de forma total = 41.35 m2
Fck = 200.00 kgf/cm2



BLOCOS (11x)
ESC. 1:25

RELACAO DO ACO

3x V1, V9, V105 — 2x V6 — V3, V7, 3x V101, V106 — V4, V8, V104

ACO	N	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50B	2	8.0	6	444	2664
	3	8.0	6	482	2892
	4	8.0	2	219	438
	6	8.0	2	422	844
	9	8.0	4	749	2996
	10	8.0	4	787	3148
	11	8.0	2	309	618
	13	8.0	2	299	598
	14	8.0	2	337	674
	15	8.0	2	504	1008
	16	8.0	2	334	668
	19	8.0	6	441	2646
	20	8.0	6	461	2766
	21	8.0	4	746	2984
	22	8.0	2	766	1532
	23	8.0	2	501	1002
	24	8.0	2	322	644
	26	8.0	2	115	230
	27	8.0	2	434	868
	7	10.0	2	243	486
	8	10.0	2	454	908
60	1	5.0	276	84	23184
	5	5.0	2	175	350
	12	5.0	2	265	530
	17	5.0	2	170	340
	18	5.0	197	78	15366
	25	5.0	2	178	356
	28	5.0	2	255	510

RESUMO DO ACO - VIGAS

ACO	DIAM.	C. TOTAL (m)	PESO+ 5% (kgf)
CA50B	8.0	292.2	121
CA50B	10.0	13.9	9
CA60	5.0	406.3	67

PESO TOTAL	
CA50B	130 kgf
CA60	67 kgf

Vol. concreto total = 3.01 m3
Area de forma total = 53.80 m2
fck = 200.00 kgf/cm2

No.	Data	Discriminação	Verificação	Aprovação
0	12/08	EMISSÃO		

Revisões

ESC. 1:25

No. Documento	Títulos

Documentos de Referência

Observações

1 - DIMENSÕES E COTAS TOPOGRÁFICAS EM METRO, DIÂMETROS EM MILÍMETRO, EXCETO ONDE SE ENCONTRA OUTRA INDICAÇÃO.

senha e.n.g.e.n.h.e.i.r.i.a

			RUBRICA
RES.	12/08	Alex Sandro	
PROJ.		Tânia Franco - CREA nº 5235/D-GO Karla Isabella - CREA nº 12.600/D-DF	
DES.		Carlos Joadir Mendes CREA nº 2127/D-DF	
COORD.		Francisco Humberto R. da Cunha - CREA nº 3.706/D-GO Porfiro José Borges Alves Neto - CREA nº 7.792/D-GO	

1107-001

IDENTIFICAÇÃO B M A T E B I D 0 1 B 0 0

11ª Avenida, Nº 817, Setor Universitário, Goânia, Goiás - Fone (62)3202-4777 - E-mail: senha@cultura.com.br

CODEVASF

MINISTÉRIO DA INTEGRAÇÃO NACIONAL
COMPANHIA DE DESENVOLVIMENTO DOS VALES DO SÃO FRANCISCO E DO PARNAÍBA
5ª SUPERINTENDÊNCIA REGIONAL

DES/DSPAI:	DATA: 12/08
PROJ/CONFERE:	
LEVANTAMENTO:	
GESTOR:	
GERÊNCIA:	
COORDENADOR: Engº Alessandro Francisco da Silva DEC 1128/2008	

LOCAL/CIDADE: BELO MONTE

CONTEÚDO: SISTEMA DE ABASTECIMENTO DE ÁGUA
PROJETO BÁSICO

–

ESTRUTURA DE CONCRETO
ESTRUTURAL

CASA DE QUÍMICA
VIGAS, LOCAÇÃO DE CARGAS, BALDRAMES, COBERTURA, PILARES, BLOCOS

ORIGEM:	Senha
NÚMERO DE ORIGEM:	BM/A/T/EB/001
HISTÓRICO(alteração):	800
ESCALA:	1:25/1:50
FOLHA:	01/03
NÚMERO DO CONTRATO:	0.06.08.0161-06