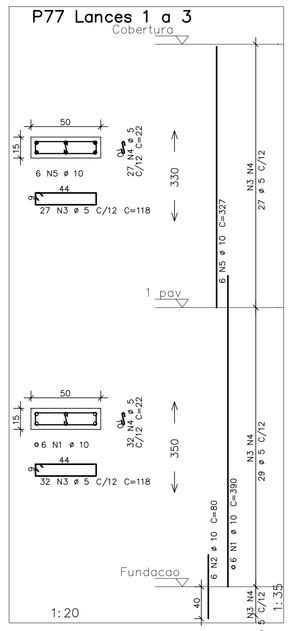

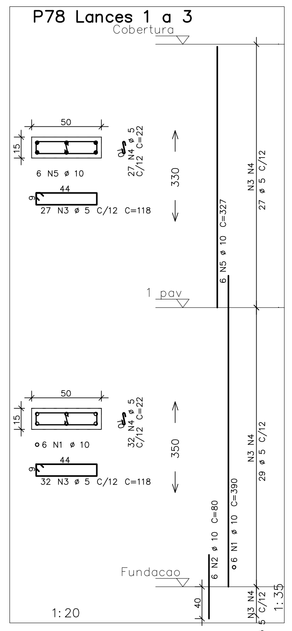

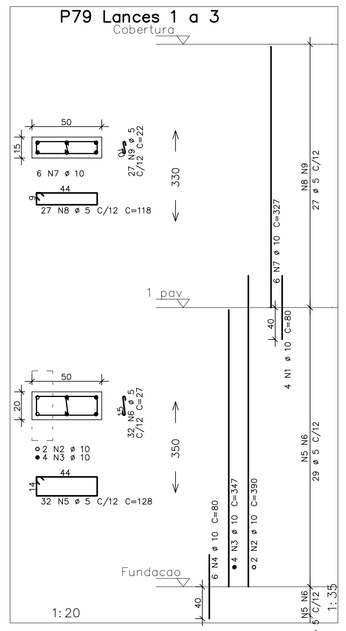

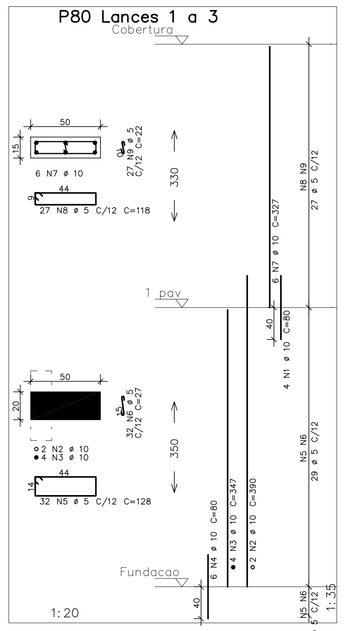

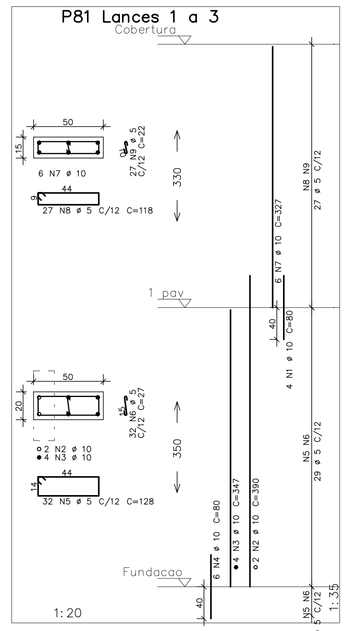

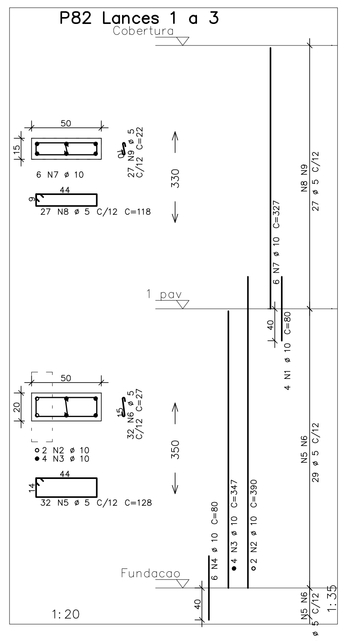

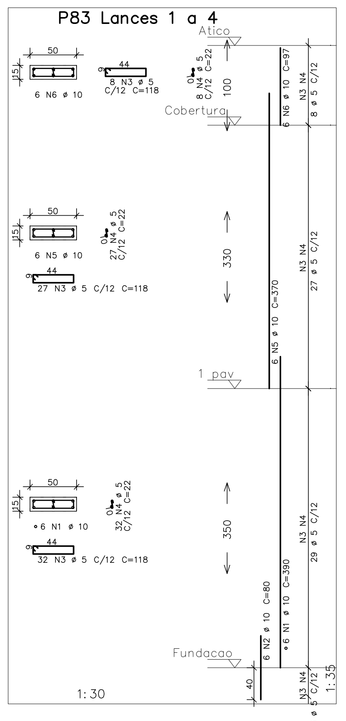

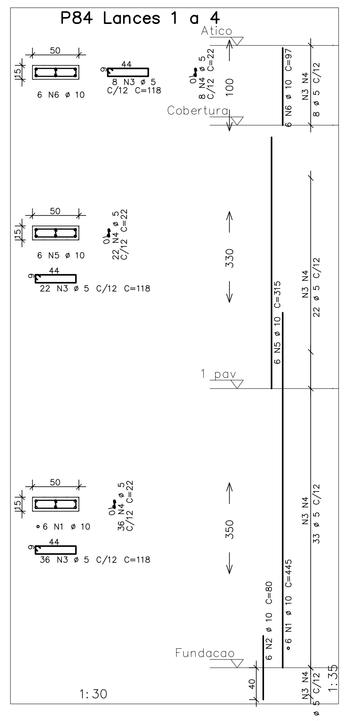

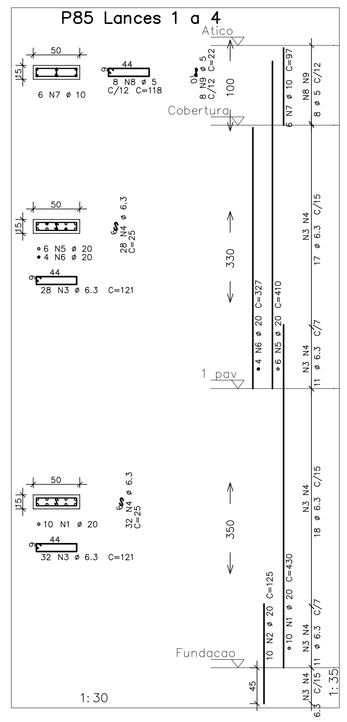

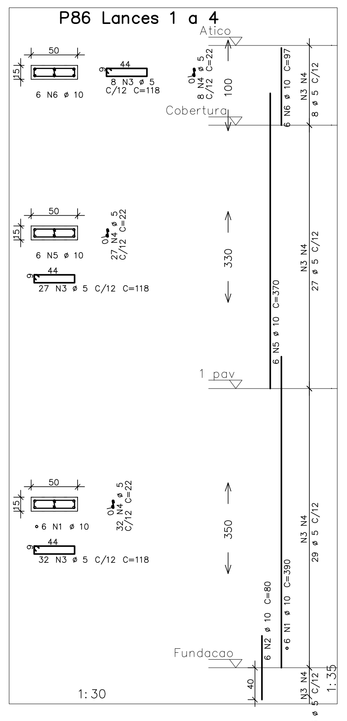

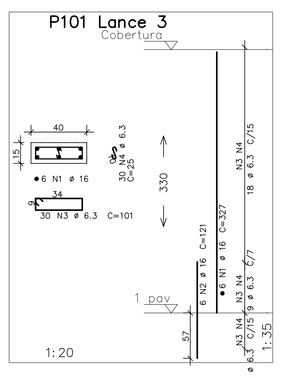

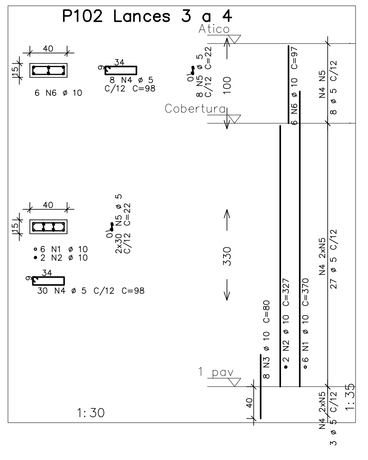

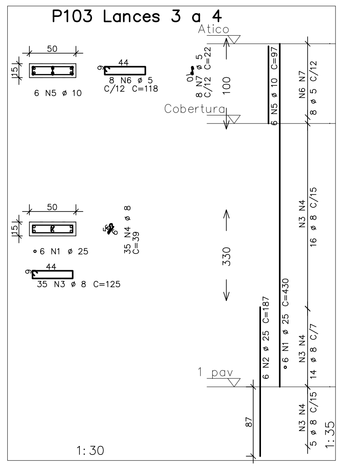

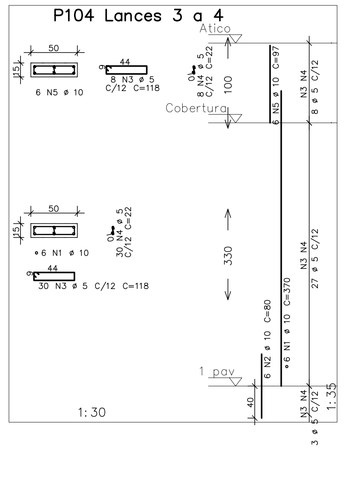

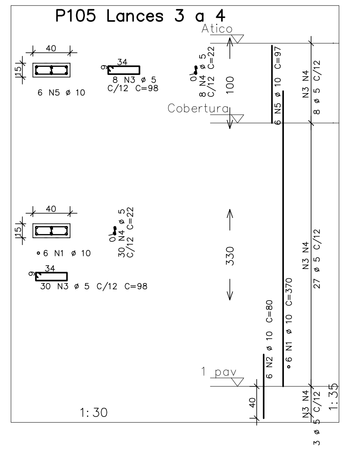

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
P77 Lances 1 a 3					
50A	1	10	6	390	2340
50A	2	10	6	80	480
60B	3	5	59	118	6962
60B	4	5	59	22	1298
50A	5	10	6	327	1962
P78 Lances 1 a 3					
50A	1	10	6	390	2340
50A	2	10	6	80	480
60B	3	5	59	118	6962
60B	4	5	59	22	1298
50A	5	10	6	327	1962
P79 Lances 1 a 3					
50A	1	10	4	80	320
50A	2	10	2	390	780
50A	3	10	4	347	1388
50A	4	10	6	80	480
60B	5	5	32	128	4096
60B	6	5	32	27	864
50A	7	10	6	327	1962
60B	8	5	27	118	3186
60B	9	5	27	22	594
P80 Lances 1 a 3					
50A	1	10	4	80	320
50A	2	10	2	390	780
50A	3	10	4	347	1388
50A	4	10	6	80	480
60B	5	5	32	128	4096
60B	6	5	32	27	864
50A	7	10	6	327	1962
60B	8	5	27	118	3186
60B	9	5	27	22	594
P81 Lances 1 a 3					
50A	1	10	4	80	320
50A	2	10	2	390	780
50A	3	10	4	347	1388
50A	4	10	6	80	480
60B	5	5	32	128	4096
60B	6	5	32	27	864
50A	7	10	6	327	1962
60B	8	5	27	118	3186
60B	9	5	27	22	594
P82 Lances 1 a 3					
50A	1	10	4	80	320
50A	2	10	2	390	780
50A	3	10	4	347	1388
50A	4	10	6	80	480
60B	5	5	32	128	4096
60B	6	5	32	27	864
50A	7	10	6	327	1962
60B	8	5	27	118	3186
60B	9	5	27	22	594
P83 Lances 1 a 4					
50A	1	10	6	390	2340
50A	2	10	6	80	480
60B	3	5	67	118	7906
60B	4	5	67	22	1474
50A	5	10	6	370	2220
50A	6	10	6	97	582
P84 Lances 1 a 4					
50A	1	10	6	445	2670
50A	2	10	6	80	480
60B	3	5	66	118	7788
60B	4	5	66	22	1452
50A	5	10	6	315	1890
50A	6	10	6	97	582
P85 Lances 1 a 4					
50A	1	20	10	430	4300
50A	2	20	10	125	1250
50A	3	6.3	60	121	7260
50A	4	6.3	60	25	1500
50A	5	20	6	410	2460
50A	6	20	4	327	1308
50A	7	10	6	97	582
60B	8	5	8	118	944
60B	9	5	8	22	176
P86 Lances 1 a 4					
50A	1	10	6	390	2340
50A	2	10	6	80	480
60B	3	5	67	118	7906
60B	4	5	67	22	1474
50A	5	10	6	370	2220
50A	6	10	6	97	582
P101 Lance 3					
50A	1	16	6	327	1962
50A	2	16	6	121	726
50A	3	6.3	30	101	3030
50A	4	6.3	30	25	750
P102 Lances 3 a 4					
50A	1	10	6	370	2220
50A	2	10	2	327	654
50A	3	10	8	80	640
60B	4	5	38	98	3724
60B	5	5	68	22	1496
50A	6	10	6	97	582
P103 Lances 3 a 4					
50A	1	25	6	430	2580
50A	2	25	6	187	1122
50A	3	8	35	125	4375
50A	4	8	35	39	1365
50A	5	10	6	97	582
60B	6	5	8	118	944
60B	7	5	8	22	176
P104 Lances 3 a 4					
50A	1	10	6	370	2220
50A	2	10	6	80	480
60B	3	5	38	118	4484
60B	4	5	38	22	836
50A	5	10	6	97	582
P105 Lances 3 a 4					
50A	1	10	6	370	2220
50A	2	10	6	80	480
60B	3	5	38	98	3724
60B	4	5	38	22	836
50A	5	10	6	97	582

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	968	155
50A	6.3	125	31
50A	8	57	23
50A	10	580	365
50A	16	27	43
50A	20	93	233
50A	25	37	148
Peso Total	60B =		155 kg
Peso Total	50A =		844 kg

NOTAS

1- DIMENSÕES EM CENTIMETROS;
2- COTAS DE NÍVEL EM METROS;
3- CONCRETO fck>=25MPa;
4- COBRIMENTO DAS ARMADURA:
BLOCOS = 3 cm;
CINTAS = 3 cm;
PILARES = 3 cm;
VIGAS = 3 cm;
LAJES = 2,5 cm;
5- PREVER PASSAGEM DE TUBULAÇÕES DE ÁGUA, ESGOTO, ELÉTRICA, TELEFONIA E OUTROS NOS NOS ELEMENTOS ESTRUTURAIS ANTES DA CONCRETAGEM DOS MESMOS
6- QUANDO FOR PREVISTO FUROS E ABERTURAS NOS ELEMENTOS ESTRUTURAIS OBEDECER O ITEM 21.3 DA NORMA ABNT NBR 6118:2003.
7- É IMPORTANTE E OBRIGATÓRIO RESPEITAR OS COBRIMENTOS DAS ARMADURAS UTILIZANDO DISTANCIADORES.

PMMG — DAL

SEÇÃO DE ENGENHARIA E PROJETOS

PMMG

UNIDADE: 35ºBPM

LOCAL: | CIDADE: SANTA LUZIA

DADOS DO PROJETO

PROJETO (estrutural/ arquitetônico/ hidráulico etc.): ESTRUTURA DE CONCRETO | Nº PROJETO:

TÍTULO DO PROJETO (reforma / levantamento etc.): PROJETO EXECUTIVO

DETALHES: ARMAÇÃO DOS PILARES - PARTE 07/09 | FOLHA: 35/48

ÁREA TOTAL TERRENO: 23.978,24 m² | ÁREA ÚTIL TERRENO: 14.545,34 m² | DATA: SETEMBRO 2013

DESENHISTA: JEFERSON | ESCALA: VER PROJETO | ART.:

ASSINATURAS

DAL
ITAMAR DE ALMEIDA SÁ, CEL PM

CH. DAL/3
DÁRIO JOSÉ DE ARAÚJO SILVA, MAJ PM

R.T.
JEFERSON DYONISIO DE SÁ, ENGENHEIRO CREA-MG 98.080/D