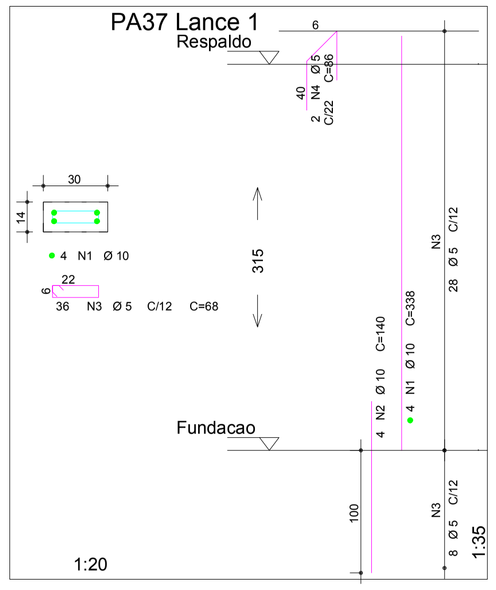

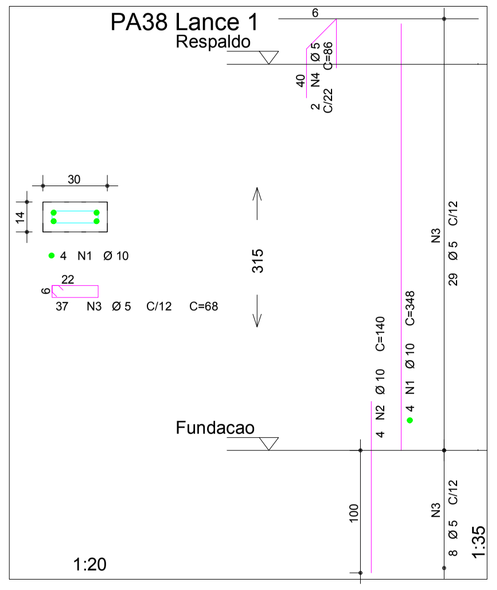

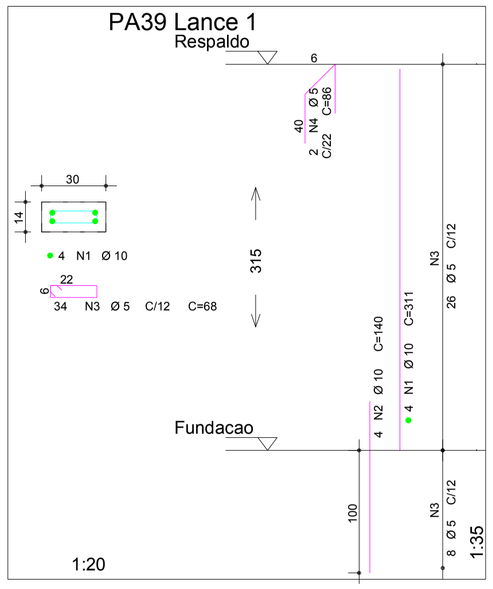

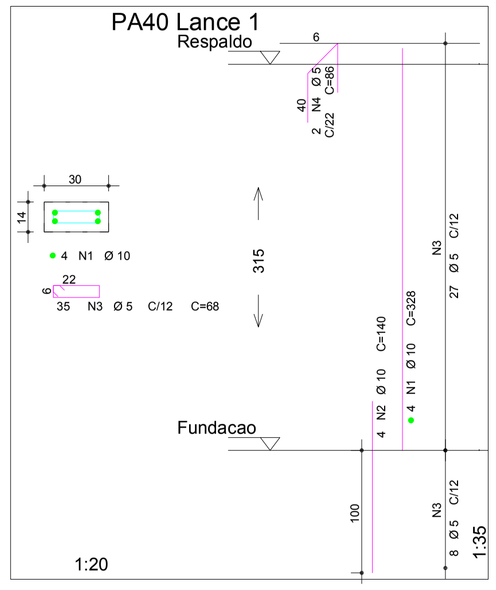

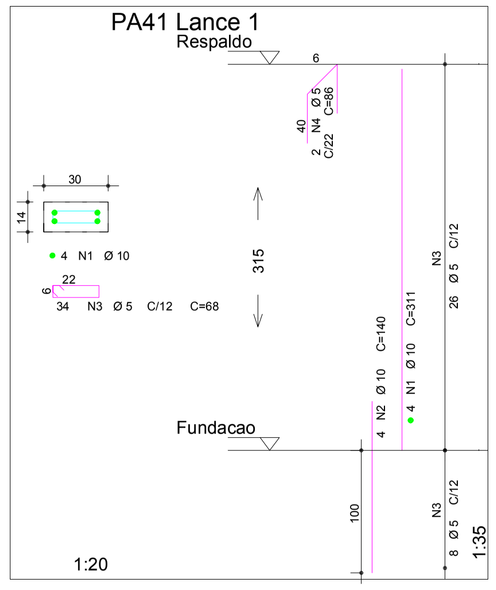

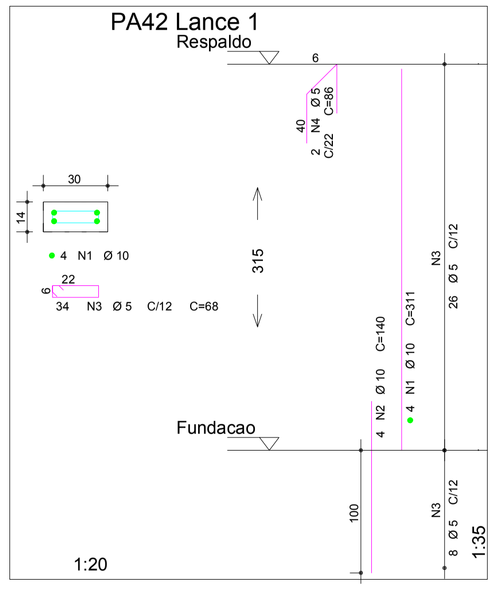

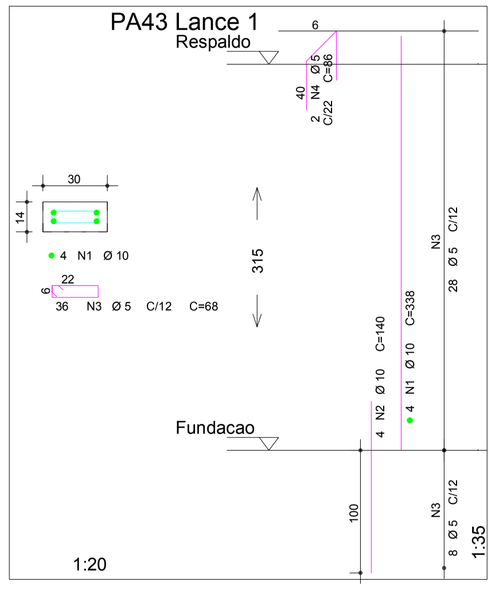

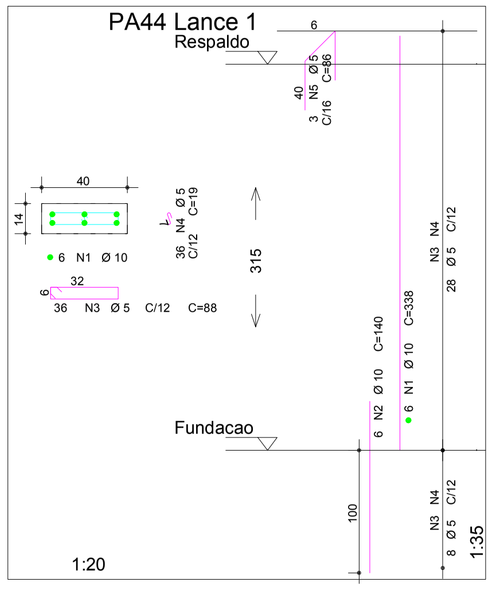

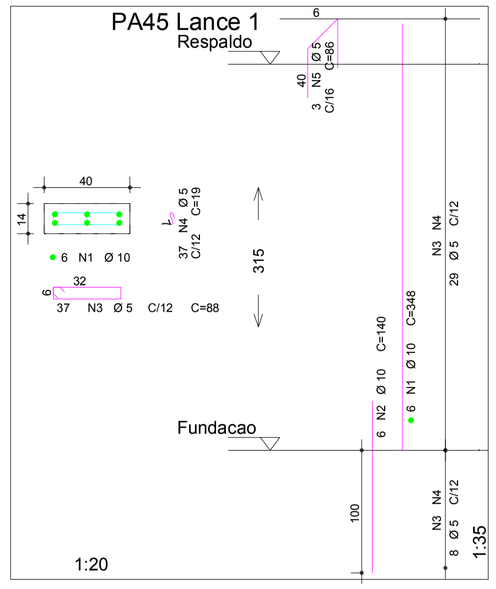

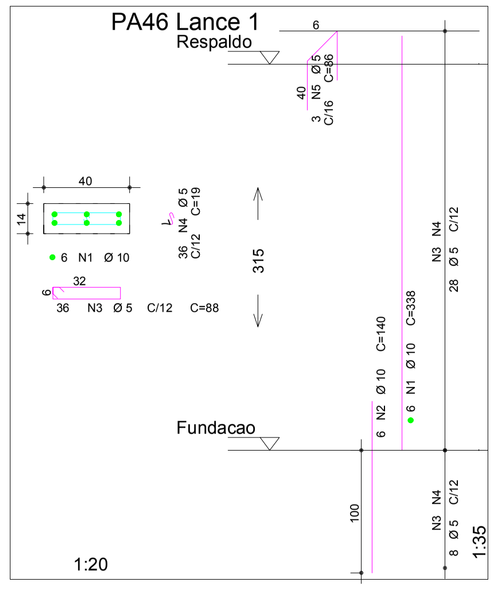

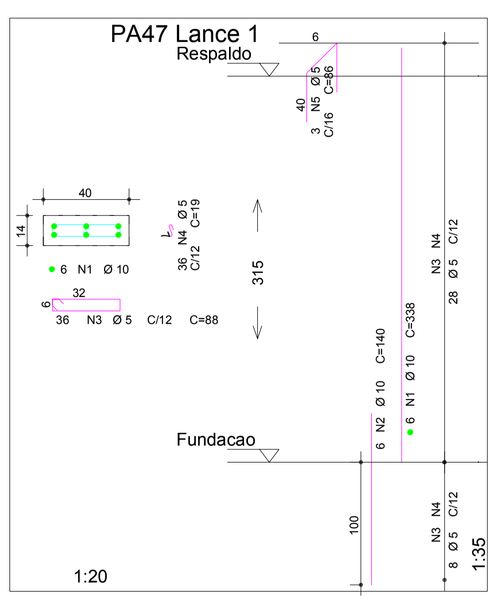

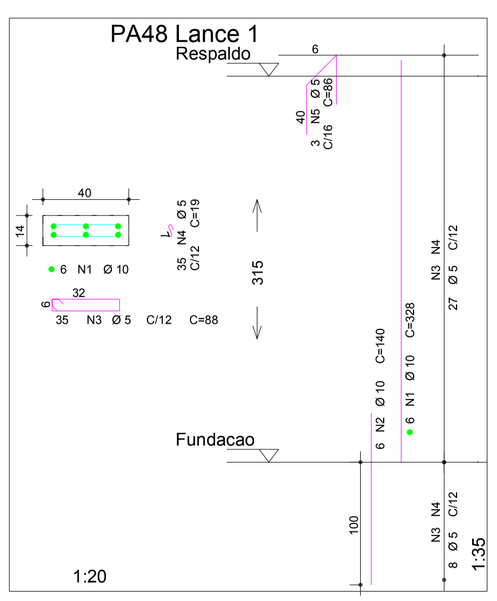

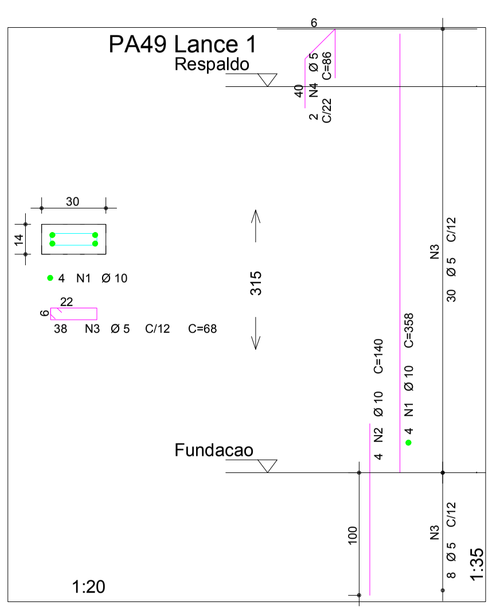

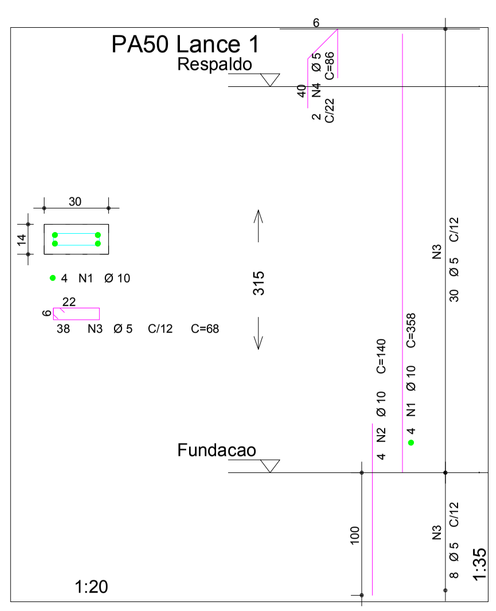

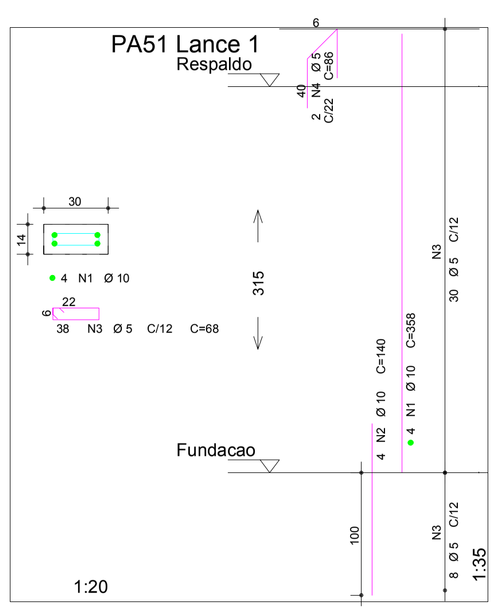

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
PA37 Lance 1					
50A	1	10	4	338	1352
50A	2	10	4	140	560
60B	3	5	36	68	2448
60B	4	5	2	86	172
PA38 Lance 1					
50A	1	10	4	348	1392
50A	2	10	4	140	560
60B	3	5	37	68	2516
60B	4	5	2	86	172
PA39 Lance 1					
50A	1	10	4	311	1244
50A	2	10	4	140	560
60B	3	5	34	68	2312
60B	4	5	2	86	172
PA40 Lance 1					
50A	1	10	4	328	1312
50A	2	10	4	140	560
60B	3	5	35	68	2380
60B	4	5	2	86	172
PA41 Lance 1					
50A	1	10	4	311	1244
50A	2	10	4	140	560
60B	3	5	34	68	2312
60B	4	5	2	86	172
PA42 Lance 1					
50A	1	10	4	311	1244
50A	2	10	4	140	560
60B	3	5	34	68	2312
60B	4	5	2	86	172
PA43 Lance 1					
50A	1	10	4	338	1352
50A	2	10	4	140	560
60B	3	5	36	68	2448
60B	4	5	2	86	172
PA44 Lance 1					
50A	1	10	6	338	2028
50A	2	10	6	140	840
60B	3	5	36	88	3168
60B	4	5	36	19	684
60B	5	5	3	86	258
PA45 Lance 1					
50A	1	10	6	348	2088
50A	2	10	6	140	840
60B	3	5	37	88	3256
60B	4	5	37	19	703
60B	5	5	3	86	258
PA46 Lance 1					
50A	1	10	6	338	2028
50A	2	10	6	140	840
60B	3	5	36	88	3168
60B	4	5	36	19	684
60B	5	5	3	86	258
PA47 Lance 1					
50A	1	10	6	338	2028
50A	2	10	6	140	840
60B	3	5	36	88	3168
60B	4	5	36	19	684
60B	5	5	3	86	258
PA48 Lance 1					
50A	1	10	6	328	1968
50A	2	10	6	140	840
60B	3	5	35	88	3080
60B	4	5	35	19	665
60B	5	5	3	86	258
PA49 Lance 1					
50A	1	10	4	358	1432
50A	2	10	4	140	560
60B	3	5	38	68	2584
60B	4	5	2	86	172
PA50 Lance 1					
50A	1	10	4	358	1432
50A	2	10	4	140	560
60B	3	5	38	68	2584
60B	4	5	2	86	172
PA51 Lance 1					
50A	1	10	4	358	1432
50A	2	10	4	140	560
60B	3	5	38	68	2584
60B	4	5	2	86	172

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60B	5	468	75
50A	10	334	210
Peso Total	60B =		75 kg
Peso Total	50A =		210 kg

PROJESUL
Assessoria e Projetos Técnicos LTDA

PROJETO ESTRUTURAL

OBRA N.º 0001

CLIENTE
PREFEITURA MUNICIPAL DE MATINHOS

OBRA
UNIDADE DE PRONTO ATENDIMENTO 24H

DES. N.º 16/53

TITULO
PA37 Lance 1
PA38 Lance 1
PA39 Lance 1
PA40 Lance 1
PA41 Lance 1
PA42 Lance 1
PA43 Lance 1

CALCULISTA
MARCEL DASSANDRI ROMERO FARINHA
ENGENHEIRO CIVIL
CREA:127562/D-PR

PREFEITURA M. DE MATINHOS
CNPJ: 76.017.466/0001-61

REV. N.º 00

DATA 07/01/2014 | ESCALA | FCK 30MPa | DESENHO ENG MARCEL FARINHA