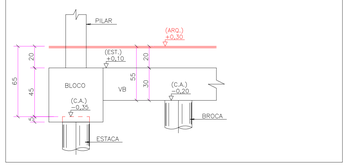
ESQUEMA NÍVEIS FUNDAÇÃO
ESCALA 1:20



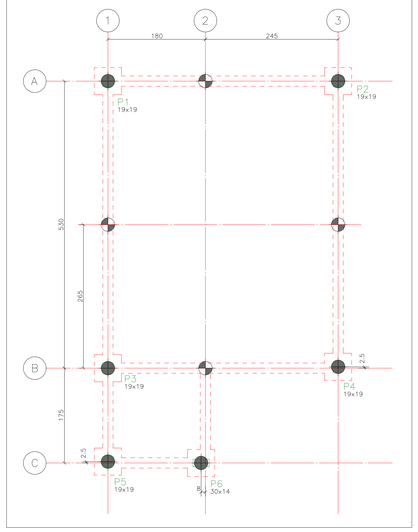
LEGENDA ESTACAS E BROCAS

ESTACA ESCAVADA ø 25	p/ 09 tf	C.A. −0,35	(06x)
BROCA ø 25	p/ 03 tf	C.A. −0,20	(04x)

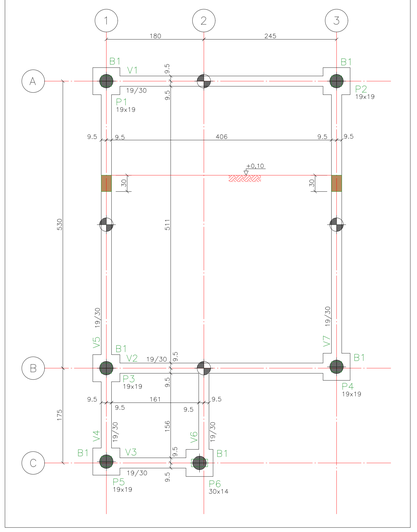
C.A. COTA DE ARRASAMENTO

TABELA CARGAS	
PILARES	CARGAS EM tf
	Fz
P1	7.1
P2	7.7
P3	8.7
P4	7.3
P5	2.9
P6	3.1

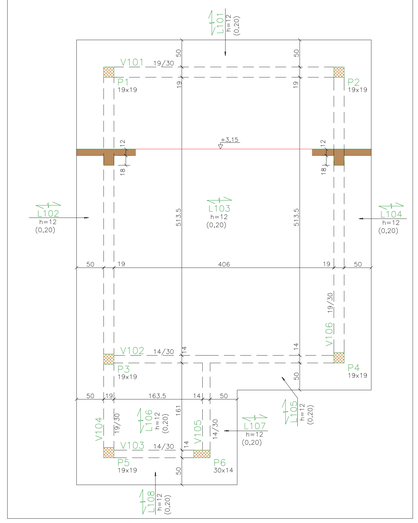
LOC.ESTACAS, BROCAS E PILARES
ESCALA 1:40



FORMA FUNDAÇÃO NÍVEL +0,10
ESCALA 1:40



FORMA COBERTURA NÍVEL +3,15
ESCALA 1:40



NOTAS LAJES PRÉ-FABRICADAS

- UTILIZAR LAJE PRÉ-FABRICADA ARMADA NAS DUAS DIREÇÕES (VINCULO: APOIO-APOIO)

h=XX (NNN)
- DIREÇÃO DA NERVURA PRINCIPAL (TRILHO).
- ALTURA DA LAJE E SOBRECARGA.
XX – ALTURA DA LAJE (cm), (SUGESTÃO – DEVERÁ SER VERIFICADA).
NNN – SOBRECARGA SOBRE A LAJE (tf/m2) – S/ PESO PRÓPRIO DA LAJE.

- EVENTUAIS MUDANÇAS NAS ALTURAS DAS LAJES, OBESERVAR ABAIXO OS PESOS PRÓPRIOS ADOTADOS NESTE PROJETO ESTRUTURAL:
- PARA h=12 – ADOTADO PP = 0,20 t/m2; – UTILIZAR CAPA DE CONCRETO COM 4 cm.
- CAPA DE CONCRETO E ARMADURA DE ACORDO COM A NBR 14859-2 e NBR 14860.
- A LAJE PRÉ-FABRICADA É DE RESPONSABILIDADE DO SEU FORNECEDOR.
- ARMADURAS DAS LAJES EM BALANÇO E AS DEMAIS SÃO DE RESPONSABILIDADE DO SEU FORNECEDOR.
- PREVER ARMADURA NEGATIVA NAS LAJES EM BALANÇO VER FORNECEDOR

FORMA FUNDAÇÃO NÍVEL +0,10		
PEÇAS	CONCRETO (m3)	FORMAS (m2)
BLOCOS	0,75	6,00
VIGAS	1,14	12,11
TOTAL	18,9	18,11

* PARA CADA BROCA ø 25 ADOTAR V=0,05m3/m

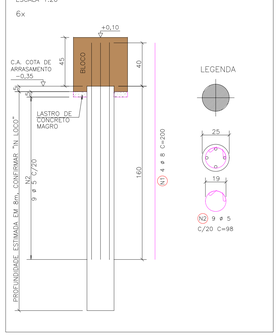
FORMA COBERTURA NÍVEL +3,15		
PEÇAS	CONCRETO (m3)	FORMAS (m2)
PILARES	0,68	14,27
VIGAS	1,20	12,26
LAJES	2,83	xx,xx
TOTAL	4,71	26,53

POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
B1 (X6)				
1	10	18	165	2970
2	5	18	189	3402
3	10	18	169	3042
BROCA ø 25 p/ 03tf (X4)				
	8	12	200	2400
EST.ESCAVADA ø 25 p/ 9tf (X6)				
1	8	24	200	4800
2	5	54	98	5292
P1				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
P2				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
P3				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
P4				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
P5				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
P6				
1	10	4	303	1212
2	10	4	115	460
3	5	27	73	1971
V1				
1	8	4	460	1840
2	5	26	95	2470
V2				
1	8	4	460	1840
2	5	26	95	2470
V3				
1	8	4	180	720
2	5	10	85	850
V4				
1	8	4	205	820
2	5	10	95	950
V5				
1	8	4	565	2260
2	5	34	95	3230
V6				
1	8	4	215	860
2	5	11	95	1045
V7				
1	8	4	565	2260
2	5	33	95	3135
V101				
1	10	2	485	970
2	12.5	2	480	960
3	5	29	95	2755
V102				
1	10	2	485	970
2	12.5	2	480	960
3	5	29	85	2465
V103				
1	8	2	235	470
2	8	2	215	430
3	5	11	85	935
V104				
1	12.5	2	765	1530
2	12.5	1	200	200
3	12.5	3	752	2256
4	5	48	95	4560
V105				
1	10	2	225	450
2	10	2	215	430
3	5	12	85	1020
V106				
1	10	2	587	1174
2	12.5	3	580	1740
3	5	35	95	3325

RESUMO DO AÇO POR DIÂMETRO			
AÇO	BIT (mm)	COMPR (m)	PESO (kgf)
60B	5	497	77
50A	8	187	74
50A	10	200	124
50A	12.5	76	74
Peso Total	60B =		77 kg
Peso Total	50A =		271 kg

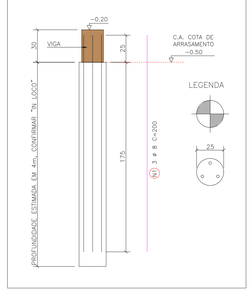
EST.ESCAVADA ø 25 p/ 9tf
ESCALA 1:20

6x



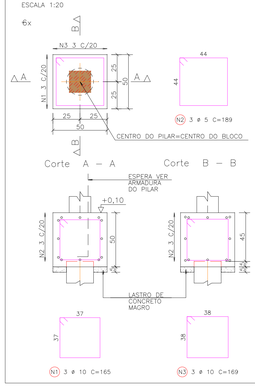
BROCA ø 25 p/ 03tf
ESCALA 1:20

4x

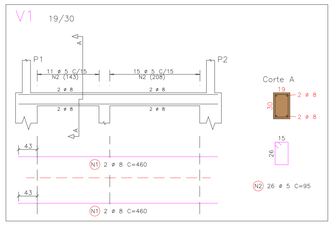


B1
ESCALA 1:20

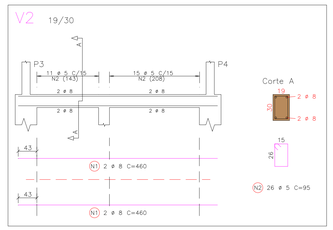
6x



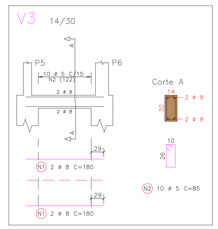
V1 19/30



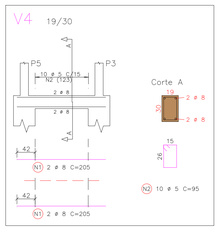
V2 19/30



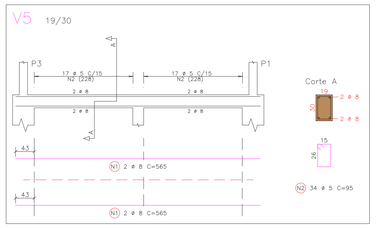
V3 14/30



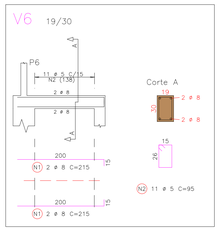
V4 19/30



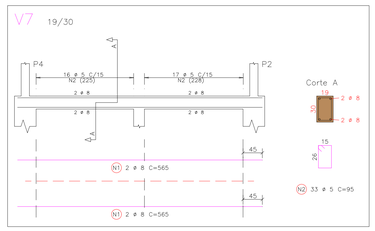
V5 19/30



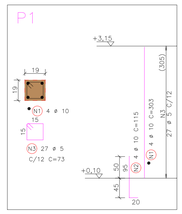
V6 19/30



V7 19/30



P1



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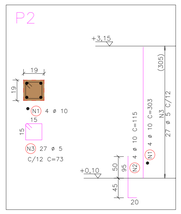

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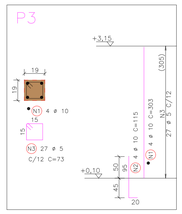
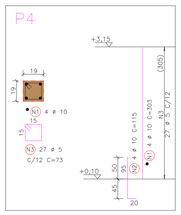
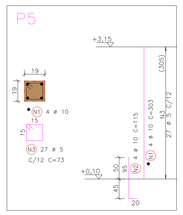


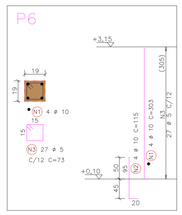
P4



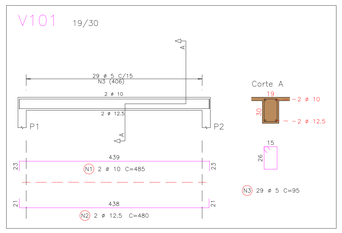
P5



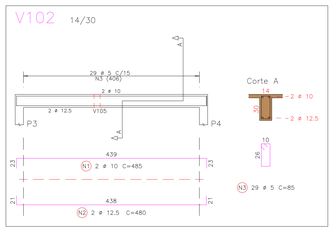
P6



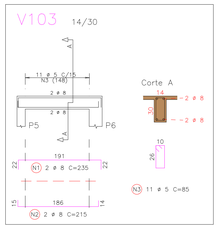
V101 19/30



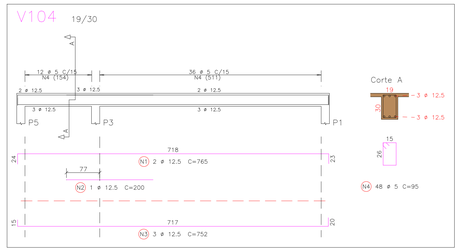
V102 14/30



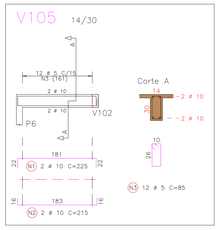
V103 14/30



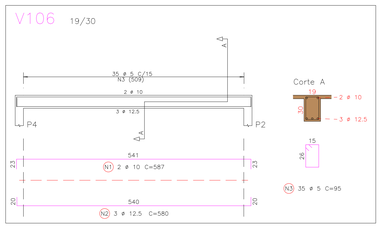
V104 19/30



V105 14/30



V106 19/30



INDICAÇÃO DE CORTES NAS FORMAS

CORTES SEM LAJE — CORTES COM LAJE

CONVENÇÕES DE PILARES

NASCE NO NÍVEL — CONTINUA — MORRE NO NÍVEL

01– VERIFICAR MEDIDAS ANTES QUALQUER EXECUÇÃO
02– MEDIDAS EM cm NÍVEIS EM m
03– NÍVEL +0,30 PISO DO TÉRREO ACABADO (VER ARQUITETURA)
04– NA TABELA DE ARMADURA NÃO HÁ PERDAS
05– COBRIMENTO ARMADURA SUPERESTRUTURA 2.0 cm
06– COBRIMENTO ARMADURA INFRAESTRUTURA 3.0 cm
07– TODO MATERIAL USADO NA ESTRUTURA DEVERÁ TER CONTROLE DE QUALIDADE, CONFORME ABNT
08– IDADE DO CONCRETO PARA CARGAS DE 28 DIAS
09– FURO NAS PEÇAS DE CONCRETO SÓ O INDICADO
10– PESO ESPECÍFICO ALVENARIA PRONTA 13kN/m3
11– PREVER FIXAÇÃO DA ALVENARIA NA ESTRUTURA
12– CIMBRAMENTO DA ESTRUTURA É DE RESPONSABILIDADE DO PROFISSIONAL TÉCNICO DA OBRA
13– TIPO DE FUNDAÇÃO ADOTADO PELO CLIENTE
14– PARA LOCAÇÃO DA FUNDAÇÃO CONFERIR MEDIDAS DO ALINHAMENTO E DIVISA COM A ARQUITETURA

CONCRETO	fck	Eci
ESTACAS/BROCAS	25 MPa (C25)	28 GPa
ARRIMOS	25 MPa (C25)	28 GPa
FUNDAÇÕES/BALDRAMES	25 MPa (C25)	28 GPa
PILARES/VIGAS	25 MPa (C25)	28 GPa

CLIENTE
SAEMAS

OBRA
CASA DE BOMBAS–FLUORETAÇÃO–CLORAÇÃO – MUROS

LOCAL
ESTRADA MUNICIPAL STZ 464 — SERTÃOZINHO – SP

TÍTULO DESENHO
CASA BOMBAS – FORMA E ARMAÇÃO

NÚMERO DA FOLHA
C–05

FORMATO A0