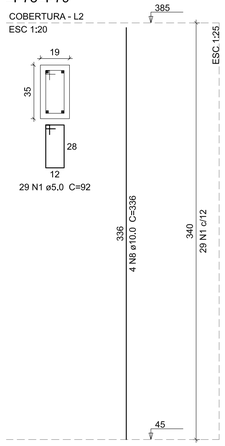
P1=P2=P3=P4=P12=P13=P14=
=P15=P29=P31=P32=P33=P39=
=P40=P41=P42=P49=P50=P51=
=P55=P57=P59=P60=P61=P62=
=P65=P66=P68=P70=P71=P77=
=P78=P79

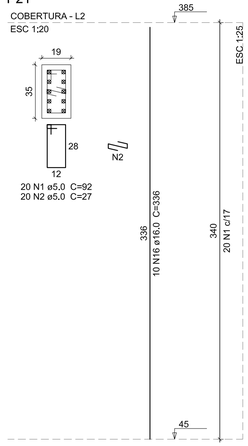
COBERTURA - L2
ESC 1:20



29 N1 ø5,0 C=92

P21

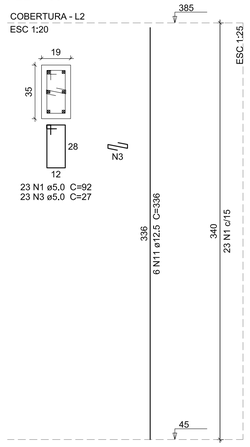
COBERTURA - L2
ESC 1:20



20 N1 ø5,0 C=92
20 N2 ø5,0 C=27

P22=P69

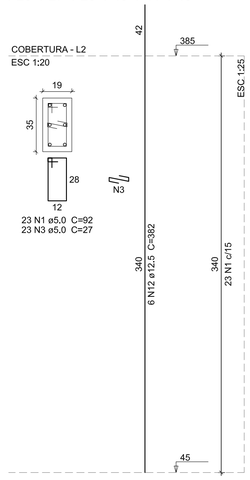
COBERTURA - L2
ESC 1:20



23 N1 ø5,0 C=92
23 N3 ø5,0 C=27

P26=P27=P28=P43=P44=P45

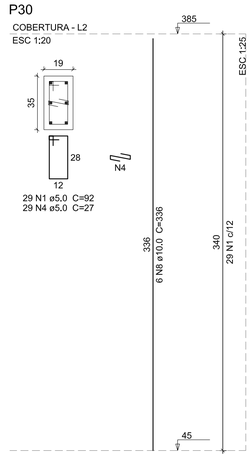
COBERTURA - L2
ESC 1:20



23 N1 ø5,0 C=92
23 N3 ø5,0 C=27

P30

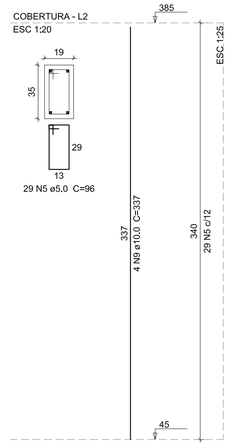
COBERTURA - L2
ESC 1:20



29 N1 ø5,0 C=92
29 N4 ø5,0 C=27

P46=P67=P76

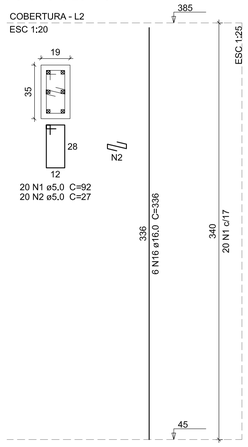
COBERTURA - L2
ESC 1:20



29 N5 ø5,0 C=96

P5=P19=P20=P34

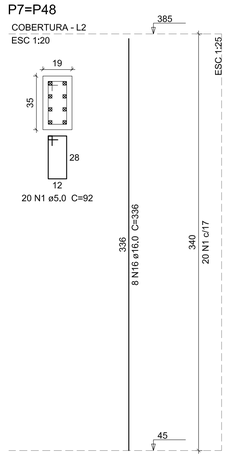
COBERTURA - L2
ESC 1:20



20 N1 ø5,0 C=92
20 N2 ø5,0 C=27

P7=P48

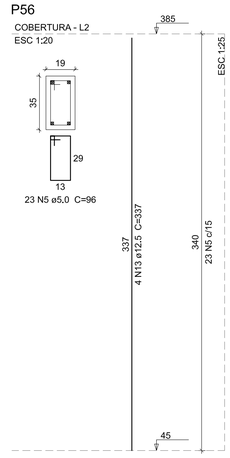
COBERTURA - L2
ESC 1:20



20 N1 ø5,0 C=92

P56

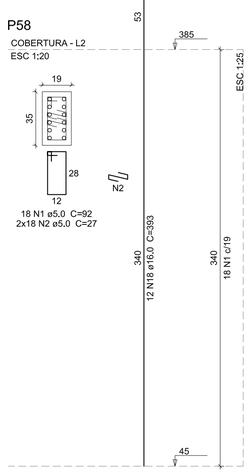
COBERTURA - L2
ESC 1:20



23 N5 ø5,0 C=96

P58

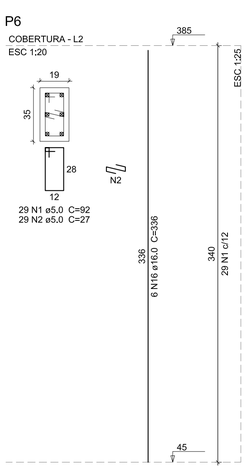
COBERTURA - L2
ESC 1:20



18 N1 ø5,0 C=92
2x18 N2 ø5,0 C=27

P6

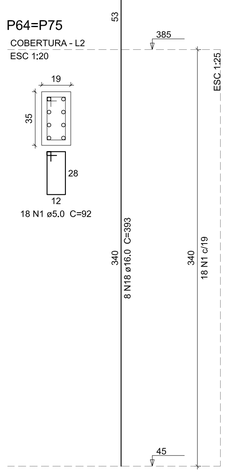
COBERTURA - L2
ESC 1:20



29 N1 ø5,0 C=92
29 N2 ø5,0 C=27

P64=P75

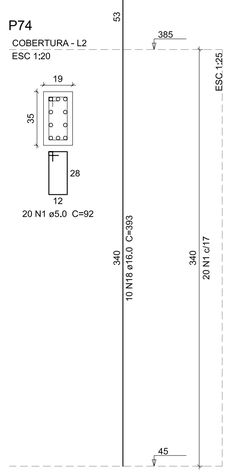
COBERTURA - L2
ESC 1:20



18 N1 ø5,0 C=92

P74

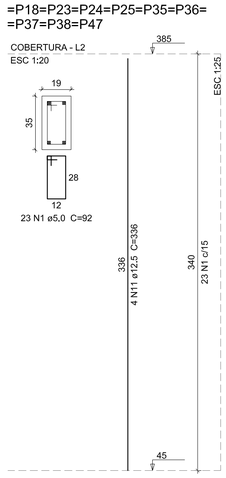
COBERTURA - L2
ESC 1:20



20 N1 ø5,0 C=92

P8=P9=P10=P11=P16=P17=
=P18=P23=P24=P25=P35=P36=
=P37=P38=P47

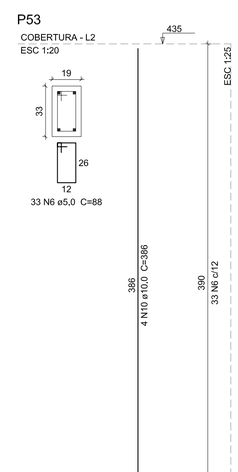
COBERTURA - L2
ESC 1:20



23 N1 ø5,0 C=92

P53

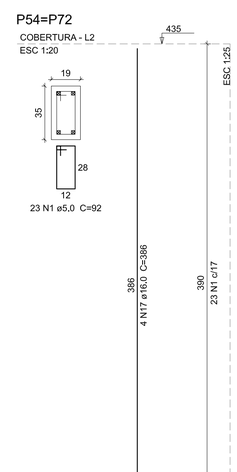
COBERTURA - L2
ESC 1:20



33 N6 ø5,0 C=88

P54=P72

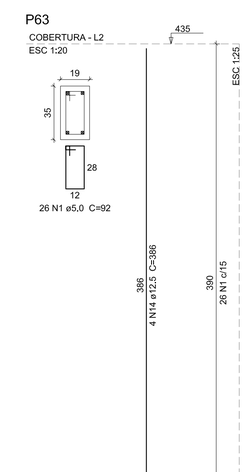
COBERTURA - L2
ESC 1:20



23 N1 ø5,0 C=92

P63

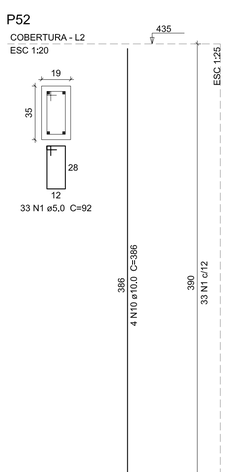
COBERTURA - L2
ESC 1:20



26 N1 ø5,0 C=92

P52

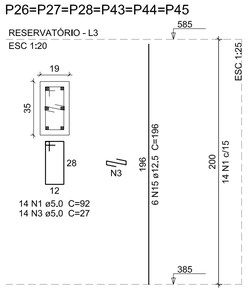
COBERTURA - L2
ESC 1:20



33 N1 ø5,0 C=92

P26=P27=P28=P43=P44=P45

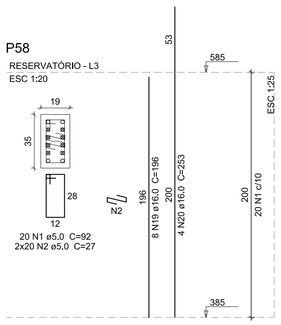
RESERVATÓRIO - L3
ESC 1:20



14 N1 ø5,0 C=92
14 N3 ø5,0 C=27

P58

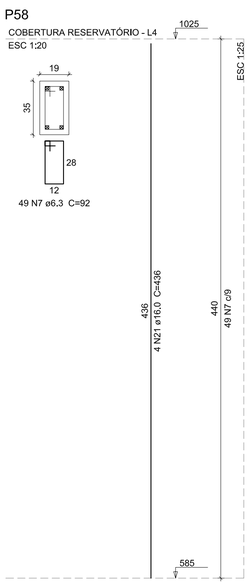
RESERVATÓRIO - L3
ESC 1:20



20 N1 ø5,0 C=92
2x20 N2 ø5,0 C=27

P58

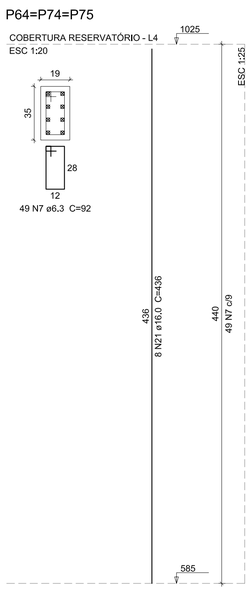
COBERTURA RESERVATÓRIO - L4
ESC 1:20



49 N7 ø6,3 C=92

P64=P74=P75

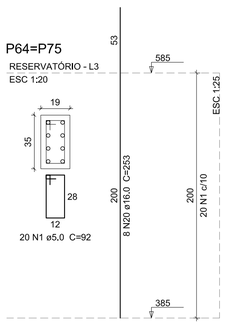
COBERTURA RESERVATÓRIO - L4
ESC 1:20



49 N7 ø6,3 C=92

P64=P75

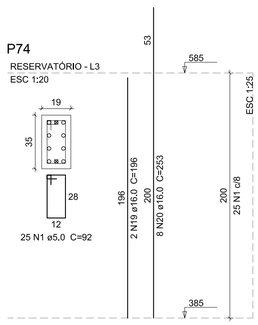
RESERVATÓRIO - L3
ESC 1:20



20 N1 ø5,0 C=92

P74

RESERVATÓRIO - L3
ESC 1:20



25 N1 ø5,0 C=92

LEGENDA:

NOTAS:

- CLASSE DE AGRESSIVIDADE AMBIENTAL III (FORTE)
- CONCRETO C-30 (Fck 300 Kgf/cm²)
- MÓDULO DE ELASTICIDADE SECANTE: Ecs 268384Kgf/cm²
- FATOR ÁGUA CIMENTO EM MASSA: ≤ 0,60
- CONTROLE RIGOROSO NAS DIMENSÕES DOS ELEMENTOS
- A ESTRUTURA DEVERÁ RECEBER REVESTIMENTO EM ARGAMASSA E PINTURA
- RECOBRIMENTO DAS ARMADURAS DE VIGAS, PILARES E E LAJES: 3,0cm/ FUNDAÇÕES: 4,5cm
- CONFERIR TODAS AS MEDIDAS NO LOCAL
- TODAS AS COTAS ESTÃO EM CENTÍMETROS
- INÍCIO DO CARREGAMENTO PREVISTO: 28 DIAS
- EM CASO DE DÚVIDAS CONSULTE O AUTOR DO PROJETO
- ESTE PROJETO NÃO PODERÁ SER ALTERADO SEM AUTORIZAÇÃO DE SEU RESPONSÁVEL TÉCNICO

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 5 % (kg)
CA50	6.3	180.4	46.3
	10.0	535	346.3
	12.5	499.1	504.8
	16.0	580.9	962.7
CA60	5,0	2167	350,7

PESO TOTAL (kg)	
CA50	1860.2
CA60	350.7

Volume de concreto (C-30) = 20.51 m³
Área de forma = 333.24 m²

Relação do aço

Cobertura:	33xP1	4xP5
	P6	2xP7
	15xP8	P21
	3xP22	6xP26
	P30	3xP46
	P52	P53
	2xP54	P56
	P58	P63
	2xP64	P74
Cobertura Reservatório:	P58	3xP64
Reservatório:	6xP26	P58
	2xP64	P74

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	2055	92	189060
	2	5,0	205	27	5535
	3	5,0	291	27	7857
	4	5,0	29	27	783
	5	5,0	110	96	10560
	6	5,0	33	88	2904
CA50	7	6.3	196	92	18032
	8	10,0	138	336	46368
	9	10.0	12	337	4044
	10	10,0	8	386	3088
	11	12,5	78	336	26208
	12	12,5	36	382	13752
	13	12,5	4	337	1348
	14	12,5	4	386	1544
	15	12,5	36	196	7056
	16	16,0	56	336	18816
	17	16,0	8	386	3088
	18	16,0	38	393	14934
	19	16,0	10	196	1960
	20	16,0	28	253	7084
	21	16,0	28	436	12208

Detalhamento dos Pilares

escala 1:20 e 1:25

Rev_00	Emissão Inicial do Projeto Executivo	eng, Marcos	Setembro/2017
Nº	REGISTRO DE MODIFICAÇÕES	VISTO	DATA

Cliente:
ESTADO DE SANTA CATARINA
PREFEITURA MUNICIPAL DE BOMBINHAS

Empreendimento:
UPA - Policlínica Municipal José Olímpio

Endereço:
Avenida Falcão, 755 - Bairro José Amândio - Bombinhas/SC

Projeto:
Projeto Estrutural

Data: setembro/2017
Escala: 1:20 e 1:25

Desenho: Eng, Marcos
Coordenação: Arq. Sérgio

Conteúdo:
Detalhamento dos Pilares

Prancha: E 16/29

Elaboração: alleanza projetos e consultoria ltda.

Projeto Complementar:

Responsável: Eng, Marcos
Software: Ebérick V10 Next

Responsáveis Técnicos:

SÉRGIO GUILHERME GOLLNICK
ARQUITETO E URBANISTA
CAU A69977

DAYBI NASS DOS SANTOS
ENGENHEIRA CIVIL
CREA/SC 090221

MARCOS ROBERTO STRAMARI
ENGENHEIRO CIVIL
CREA/SC 76436-2