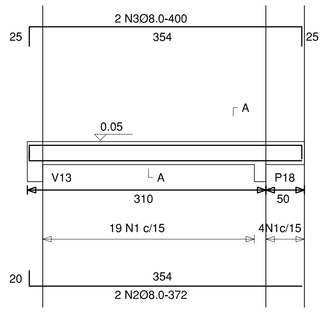
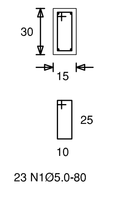
V18

1:50



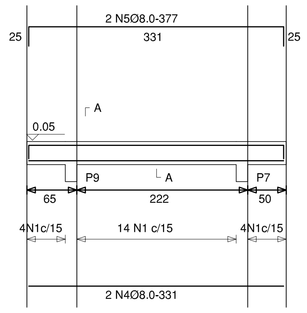
SECAO A-A
ESC 1:25



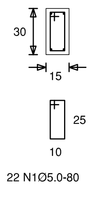
23 N1Ø5.0-80

V19

1:50



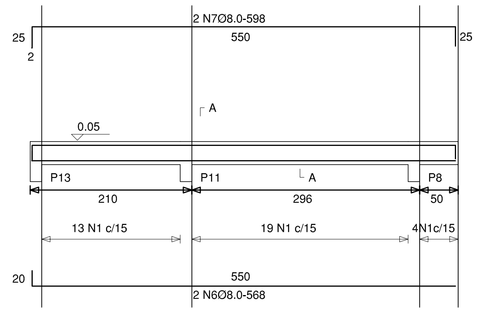
SECAO A-A
ESC 1:25



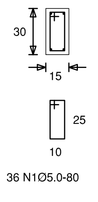
22 N1Ø5.0-80

V20

1:50



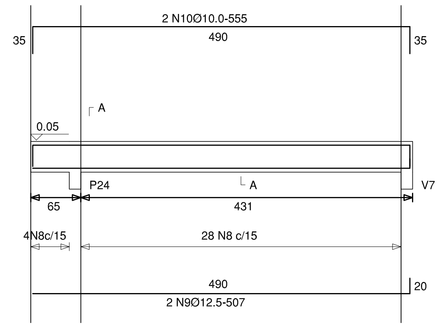
SECAO A-A
ESC 1:25



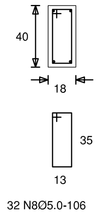
36 N1Ø5.0-80

V21

1:50



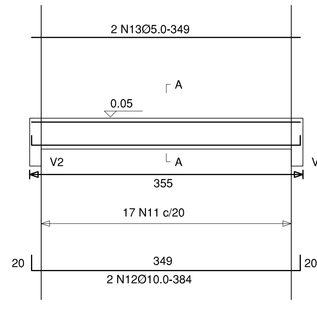
SECAO A-A
ESC 1:25



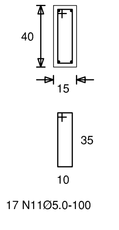
32 N8Ø5.0-106

V23

1:50



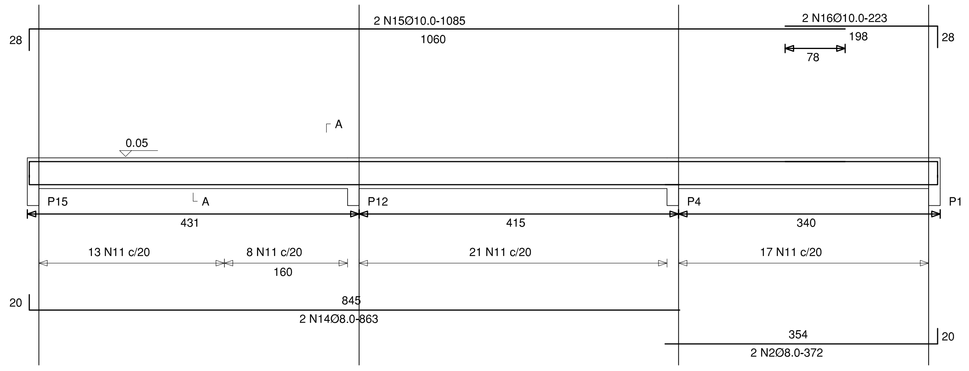
SECAO A-A
ESC 1:25



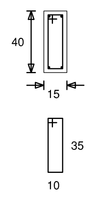
17 N11Ø5.0-100

V22

1:50



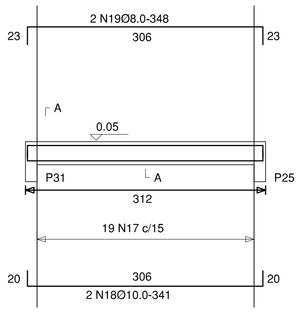
SECAO A-A
ESC 1:25



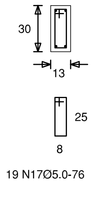
59 N11Ø5.0-100

V24

1:50



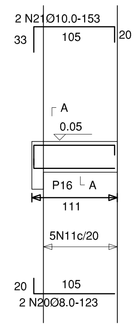
SECAO A-A
ESC 1:25



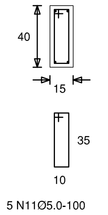
19 N17Ø5.0-76

V25

1:50



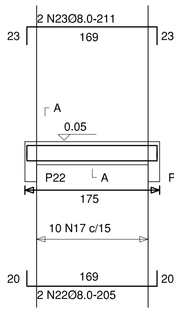
SECAO A-A
ESC 1:25



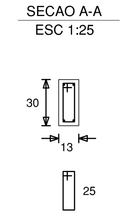
5 N11Ø5.0-100

V26

1:50



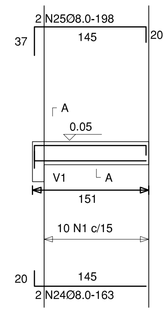
SECAO A-A
ESC 1:25



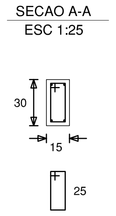
10 N17Ø5.0-76

V29

1:50



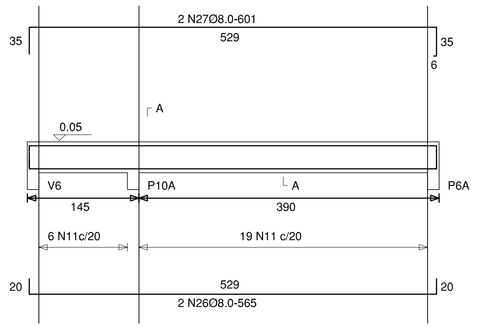
SECAO A-A
ESC 1:25



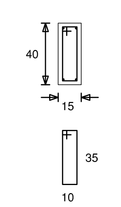
10 N1Ø5.0-80

V28

1:50



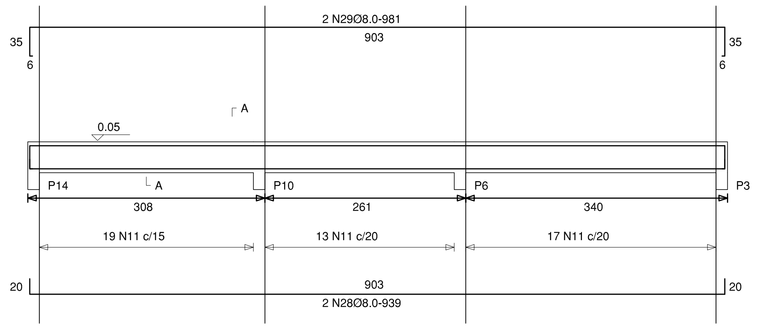
SECAO A-A
ESC 1:25



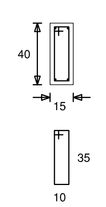
25 N11Ø5.0-100

V27

1:50



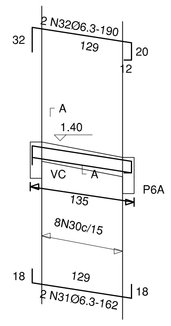
SECAO A-A
ESC 1:25



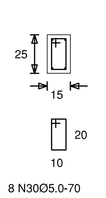
49 N11Ø5.0-100

VA

1:50



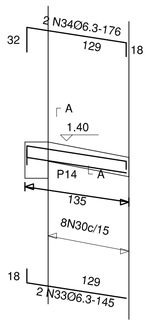
SECAO A-A
ESC 1:25



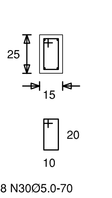
8 N30Ø5.0-70

VB

1:50



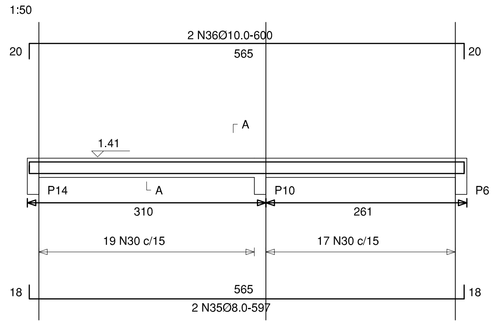
SECAO A-A
ESC 1:25



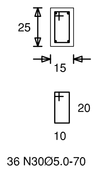
8 N30Ø5.0-70

VC

1:50



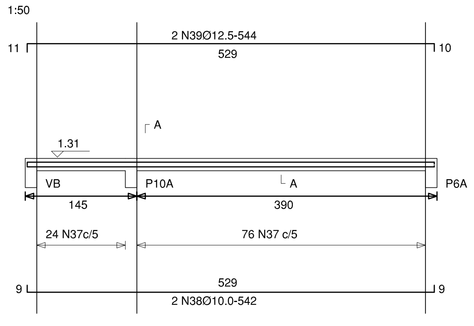
SECAO A-A
ESC 1:25



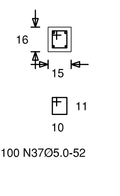
36 N30Ø5.0-70

VD

1:50



SECAO A-A
ESC 1:25



100 N37Ø5.0-52

RELACAO DO ACO

V18	V19	V20
V21	V23	V22
V24	V25	V26
V29	V28	V27
VA	VB	VC
VD		

ACO	N.	DIAM.	Q.	UNIT (cm)	C. TOTAL (cm)
50A	31	6.3	2	162	324
	32	6.3	2	190	380
	33	6.3	2	145	290
	34	6.3	2	176	352
	2	8.0	4	372	1488
	3	8.0	2	400	800
	4	8.0	2	331	662
	5	8.0	2	377	754
	6	8.0	2	568	1136
	7	8.0	2	598	1196
	14	8.0	2	863	1726
	19	8.0	2	348	696
	20	8.0	2	123	246
	22	8.0	2	205	410
	23	8.0	2	211	422
	24	8.0	2	163	326
	25	8.0	2	198	396
	26	8.0	2	565	1130
	27	8.0	2	601	1202
	28	8.0	2	939	1878
	29	8.0	2	981	1962
	35	8.0	2	597	1194
	10	10.0	2	555	1110
	12	10.0	2	384	768
	15	10.0	2	1085	2170
	16	10.0	2	223	446
	18	10.0	2	341	682
	21	10.0	2	153	306
	36	10.0	2	600	1200
	38	10.0	2	542	1084
	9	12.5	2	507	1014
	39	12.5	2	544	1088
60	1	5.0	91	80	7280
	8	5.0	32	106	3392
	11	5.0	155	100	15500
	13	5.0	2	349	698
	17	5.0	29	76	2204
	30	5.0	52	70	3640
	37	5.0	100	52	5200

RESUMO DO ACO

ACO	DIAM.	C. TOTAL (m)	PESO+ 0% (kgf)
CA50A	6.3	13.4	3
CA50A	8.0	176.2	69
CA50A	10.0	77.6	49
CA50A	12.5	21.0	21
CA60	5.0	379.1	60

PESO TOTAL	
CA50A	142 kgf
CA60	60 kgf

Vol. concreto total = 3.50 m3
Area de forma total = 57.00 m2

OBS: A ESTRUTURA NOVA DEVERÁ ESTAR DILATADA, NO MÍNIMO 2,0 cm, DA ESTRUTURA EXISTENTE.

CLASSIFICAÇÃO QUANTO A AGRESSIVIDADE AMBIENTAL (SEGUNDO NBR 6118/2003)		
TIPO DE AMBIENTE	AGRESSIVIDADE	RISCO DE DETERIORAÇÃO
URBANA	MODERADA	PEQUENO
CLASSE DE AGRESSIVIDADE	**CONCRETO MINIMO**	**COBRIMENTO MINIMO**
II	25 MPa	2,5 cm

NOTAS:

01 conferir as medidas in loco.
02 todas as cotas estão em centímetros.
03 em caso de dúvidas, consultar o autor do projeto.
04 as medidas referenciais se dimensiona analisadas.
05 todas as alterações processadas em obra deverão ser registradas para efeito de "As Built", e repassadas aos projetistas.
06 todas as alterações processadas em obra deverão ser registradas para efeito de "As Built", e repassadas aos projetistas.
07 em caso de substituição de materiais pelo critério da similaridade, deverá haver autorização prévia da fiscalização.

ESPAÇO RESERVADO P/ OS CARIMBOS DE APROVAÇÃO: PMJ, BOMBEIROS, VIGILÂNCIA SANITÁRIA E FUNDEMA.

Assinatura Proprietário: Secretário Municipal da Saúde

Assinatura Autor Projeto: ENG. RODRIGO HARTMANN DOBNER CREA: 101952-5/ SC

Responsável Execução

PREFEITURA MUNICIPAL DE JOINVILLE
Secretaria da Saúde
Rua Araranguá, 397 - Bairro América - Joinville SC

Terceirizada: HELPCON Construções Projetos Serviços
Helpcon Construções Projetos Serviços Ltda.
Rua Conselheiro Lafayete, 190
89.205-350 Joinville - SC
Fone: (047) 3028-6032

Tipo: **PROJETO ESTRUTURAL**

Nome da Obra / Endereço: **UBS JARDIM PARAISO**
Av. Jupiter - Bairro Jardim Paraiso - Joinville SC

Requerente: **FUNDO MUNICIPAL DE SAÚDE**

Proprietário: **PREFEITURA MUNICIPAL DE JOINVILLE**

Autor: **ENG. RODRIGO HARTMANN DOBNER CREA: 101952-5/ SC**

Conteúdo:
NIVEIS +0.05 E +1.31
ARMADURA DAS VIGAS F02 - 02
LEVANTADAS NA EDIFICAÇÃO EXISTENTE

Arq. PLT: | Escala: **Indicada**
Arq.CAD: | Núm. Prancha: **ES 05/08**
Revisado por: | Desenhista CAD: **NATASCHA** | Data: **Dezembro/2011** | Classificação: