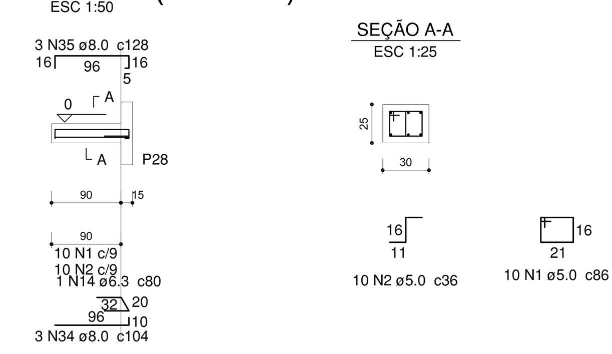
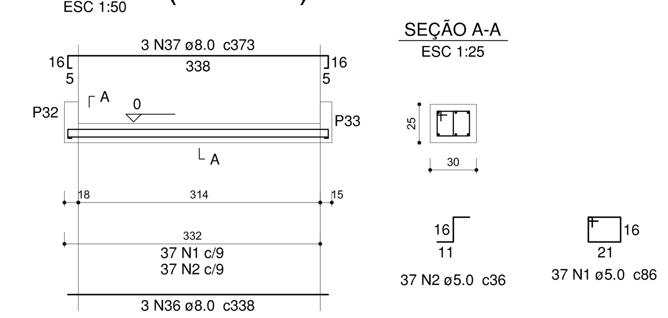
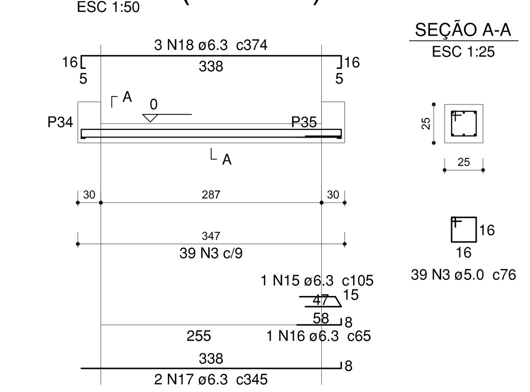
## VB12 (30 x 25)
ESC 1:50



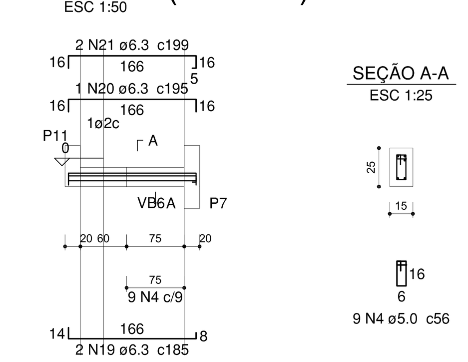

## VB13 (30 x 25)
ESC 1:50



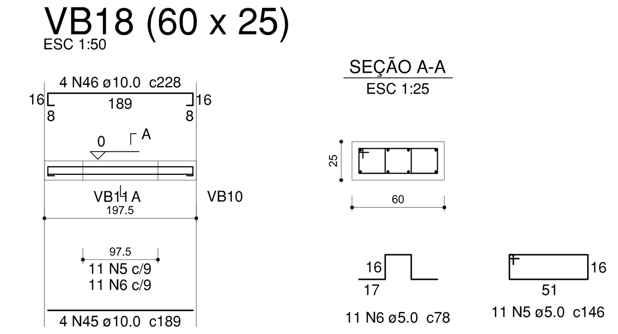

## VB16 (25 x 25)
ESC 1:50



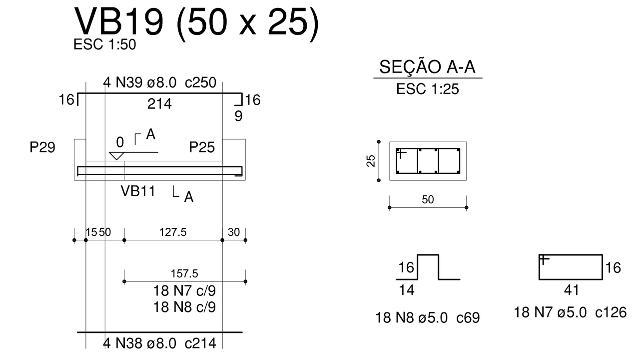

## VB17 (15 x 25)
ESC 1:50



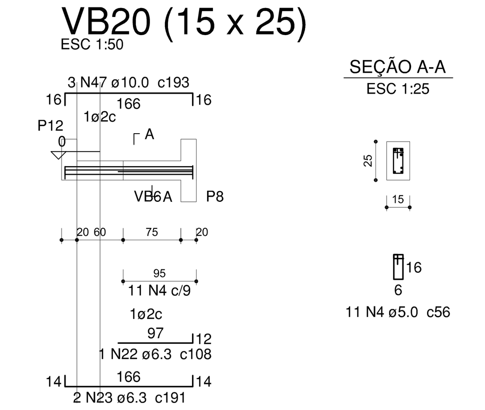

## VB18 (60 x 25)
ESC 1:50



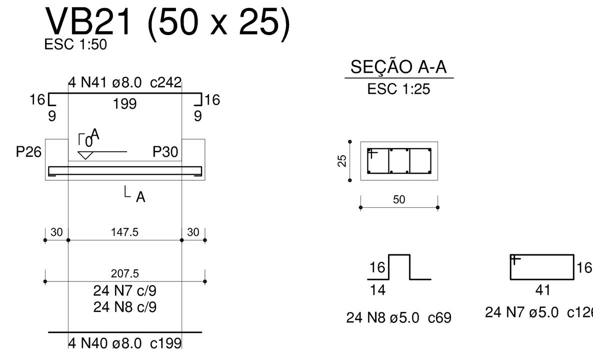

## VB19 (50 x 25)
ESC 1:50



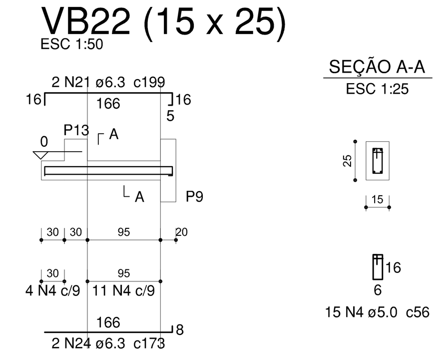

## VB20 (15 x 25)
ESC 1:50



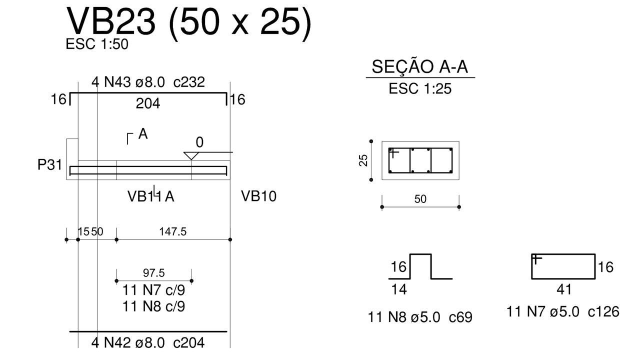

## VB21 (50 x 25)
ESC 1:50



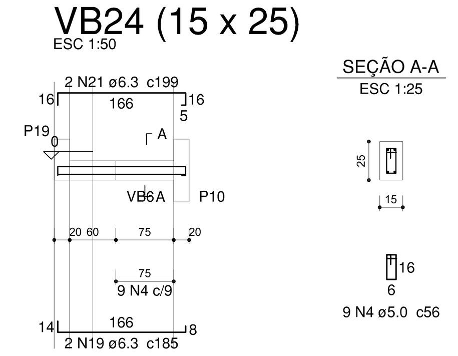

## VB22 (15 x 25)
ESC 1:50



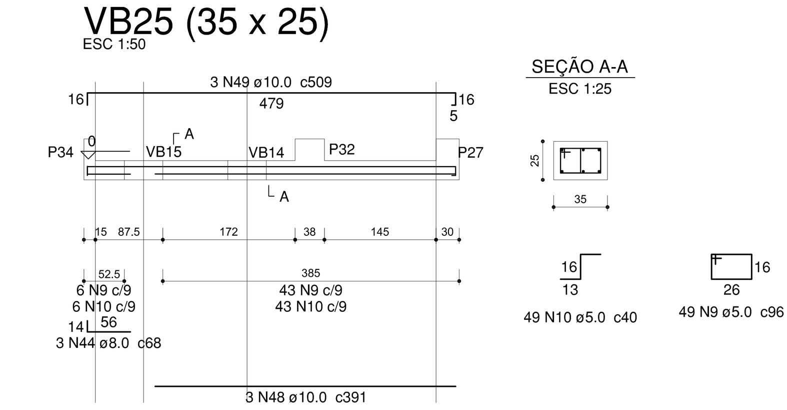

## VB23 (50 x 25)
ESC 1:50



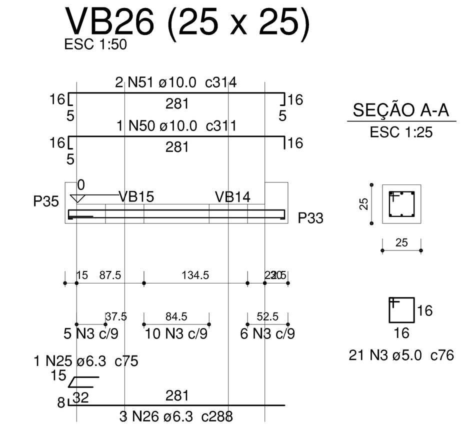

## VB24 (15 x 25)
ESC 1:50



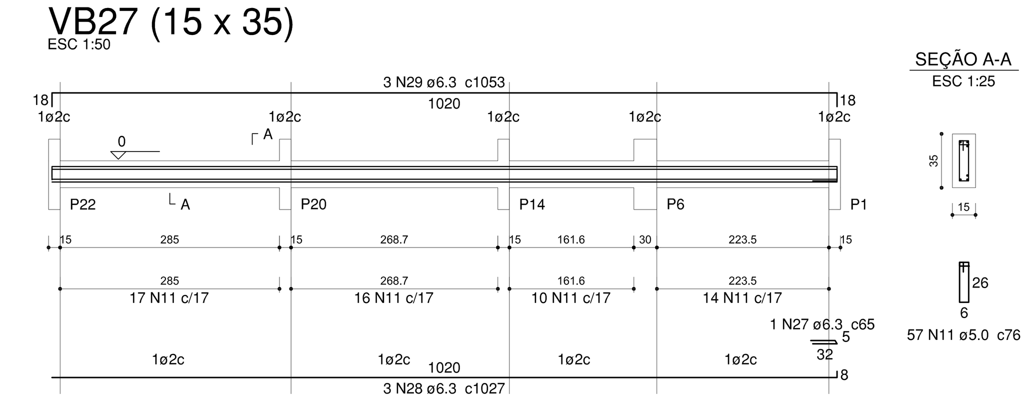

## VB25 (35 x 25)
ESC 1:50



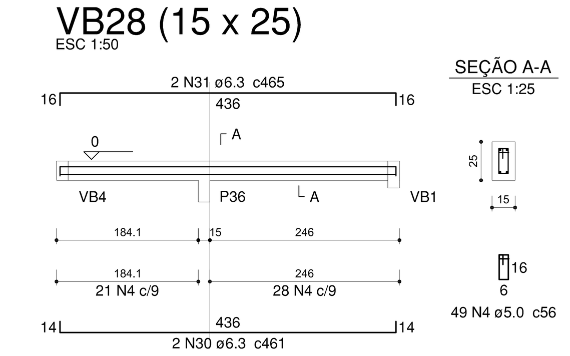

## VB26 (25 x 25)
ESC 1:50



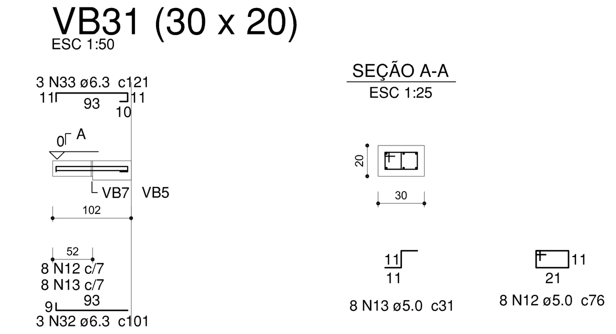

## VB27 (15 x 35)
ESC 1:50



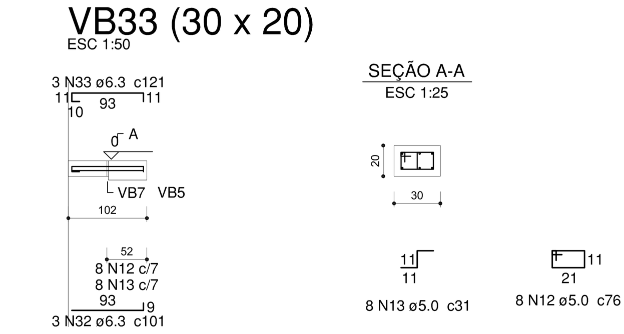

## VB28 (15 x 25)
ESC 1:50



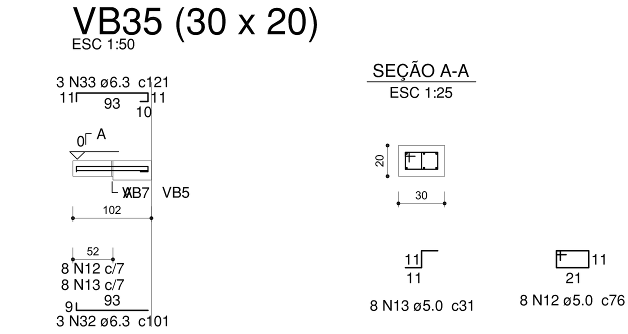

## VB31 (30 x 20)
ESC 1:50




## VB33 (30 x 20)
ESC 1:50




## VB35 (30 x 20)
ESC 1:50




## Relação do aço

| | | |
|---|---|---|
| VB12 | VB13 | VB16 |
| VB17 | VB18 | VB19 |
| VB20 | VB21 | VB22 |
| VB23 | VB24 | VB25 |
| VB26 | VB27 | VB28 |
| VB31 | VB33 | VB35 |

| AÇO | N | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 47 | 86 | 4042 |
| | 2 | 5.0 | 47 | 36 | 1692 |
| | 3 | 5.0 | 60 | 76 | 4560 |
| | 4 | 5.0 | 93 | 56 | 5208 |
| | 5 | 5.0 | 11 | 146 | 1606 |
| | 6 | 5.0 | 11 | 78 | 858 |
| | 7 | 5.0 | 53 | 126 | 6678 |
| | 8 | 5.0 | 53 | 69 | 3657 |
| | 9 | 5.0 | 49 | 96 | 4704 |
| | 10 | 5.0 | 49 | 40 | 1960 |
| | 11 | 5.0 | 57 | 76 | 4332 |
| | 12 | 5.0 | 24 | 76 | 1824 |
| | 13 | 5.0 | 24 | 31 | 744 |
| CA50 | 14 | 6.3 | 1 | 80 | 80 |
| | 15 | 6.3 | 1 | 105 | 105 |
| | 16 | 6.3 | 1 | 65 | 65 |
| | 17 | 6.3 | 2 | 345 | 690 |
| | 18 | 6.3 | 3 | 374 | 1122 |
| | 19 | 6.3 | 4 | 185 | 740 |
| | 20 | 6.3 | 1 | 195 | 195 |
| | 21 | 6.3 | 6 | 199 | 1194 |
| | 22 | 6.3 | 1 | 108 | 108 |
| | 23 | 6.3 | 2 | 191 | 382 |
| | 24 | 6.3 | 2 | 173 | 346 |
| | 25 | 6.3 | 1 | 75 | 75 |
| | 26 | 6.3 | 3 | 288 | 864 |
| | 27 | 6.3 | 1 | 65 | 65 |
| | 28 | 6.3 | 3 | 1027 | 3081 |
| | 29 | 6.3 | 3 | 1053 | 3159 |
| | 30 | 6.3 | 2 | 461 | 922 |
| | 31 | 6.3 | 2 | 465 | 930 |
| | 32 | 6.3 | 9 | 101 | 909 |
| | 33 | 6.3 | 9 | 121 | 1089 |
| | 34 | 8.0 | 3 | 104 | 312 |
| | 35 | 8.0 | 3 | 128 | 384 |
| | 36 | 8.0 | 3 | 338 | 1014 |
| | 37 | 8.0 | 3 | 373 | 1119 |
| | 38 | 8.0 | 4 | 214 | 856 |
| | 39 | 8.0 | 4 | 250 | 1000 |
| | 40 | 8.0 | 4 | 199 | 796 |
| | 41 | 8.0 | 4 | 242 | 968 |
| | 42 | 8.0 | 4 | 204 | 816 |
| | 43 | 8.0 | 4 | 232 | 928 |
| | 44 | 8.0 | 3 | 68 | 204 |
| | 45 | 10.0 | 4 | 189 | 756 |
| | 46 | 10.0 | 4 | 228 | 912 |
| | 47 | 10.0 | 3 | 193 | 579 |
| | 48 | 10.0 | 3 | 391 | 1173 |
| | 49 | 10.0 | 3 | 509 | 1527 |
| | 50 | 10.0 | 1 | 311 | 311 |
| | 51 | 10.0 | 2 | 314 | 628 |

## Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 6.3 | 161.3 | 43.4 |
| | 8.0 | 84 | 36.4 |
| | 10.0 | 58.9 | 39.9 |
| CA60 | 5.0 | 418.7 | 71 |
| PESO TOTAL (kg) | | | |
| CA50 | 119.8 | | |
| CA60 | 71 | | |

Volume de concreto (C-30) = 3.42 m³
Área de forma = 13.71 m²

-O RESPONSÁVEL PELA EXECUÇÃO DEVERÁ CONFERIR AS MEDIDAS NO LOCAL COMPARANDO COM AS MEDIDAS DO PROJETO ARQUITETÔNICO, CERTIFICANDO-SE DA SATISFATÓRIA COMPATIBILIDADE ENTRE OS PROJETOS E O LOCAL DE EXECUÇÃO.

-O ENGENHEIRO PROJETISTA ESTARÁ À DISPOSIÇÃO PARA QUALQUER ESCLARECIMENTO E APOIO TÉCNICO EM QUALQUER FASE DA OBRA, PORTANTO, EM CASO DE DÚVIDA NÃO DEIXE DE CONSULTAR O ENGENHEIRO

IPPUJ
FUNDAÇÃO INSTITUTO DE PESQUISA E PLANEJAMENTO PARA O DESENVOLVIMENTO SUSTENTÁVEL DE JOINVILLE
Av. Hermann August Lepper, 10 – Joinville, SC – CEP 89.221-901
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PROJETO DE ESTRUTURA

Nome da Obra / Endereço:
UBSF PETROPOLIS
AV. Paulo Schroeder, Petrópolis, Joinville/SC

Requerente:
SECRETARIA DA SAÚDE

Proprietário:
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Autores:
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Co-Autores:

Conteúdo:
VIGAS BALDRAMES 3/3

Data: OUT/2013
Escala: Indicada
Arq. PLT: SedlajorSc-08-A1.plt
Arq. CAD: SedlajorSc.dwg
Núm. Prancha: Sco 08/11

Revisado por: | Desenhista CAD: | Modificação: 0