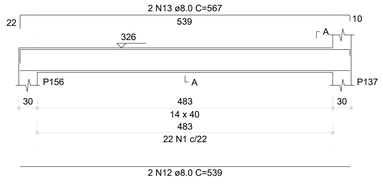
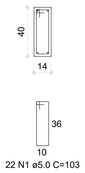
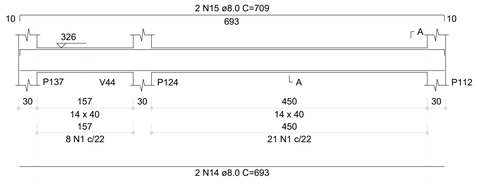
## V103 (14 x 40)
ESC 1:50



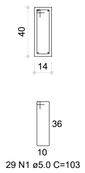

SEÇÃO A-A
ESC 1:25



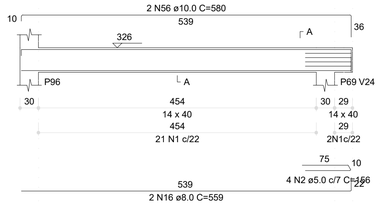

## V104 (14 x 40)
ESC 1:50



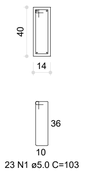

SEÇÃO A-A
ESC 1:25



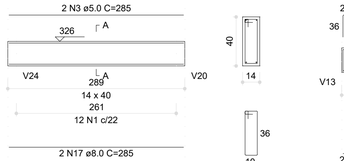

## V106 (14 x 40)
ESC 1:50



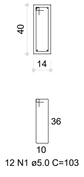

SEÇÃO A-A
ESC 1:25



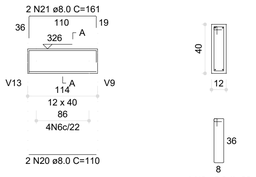

## V107 (14 x 40)
ESC 1:50



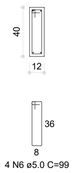

SEÇÃO A-A
ESC 1:25



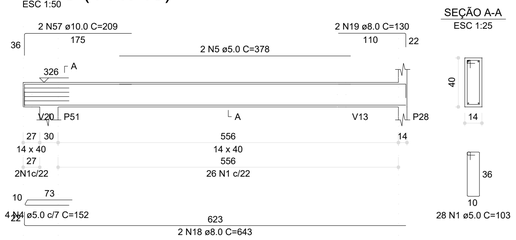

## V109 (12 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



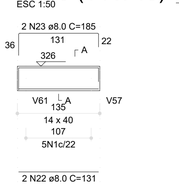

## V108 (14 x 40)
ESC 1:50



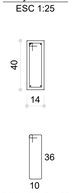

SEÇÃO A-A
ESC 1:25



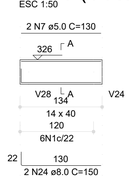

## V110 (14 x 40)
ESC 1:50



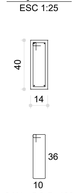

SEÇÃO A-A
ESC 1:25



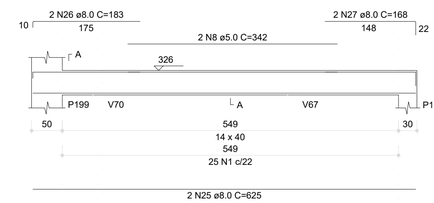

## V111 (14 x 40)
ESC 1:50



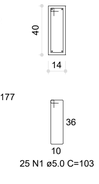

SEÇÃO A-A
ESC 1:25



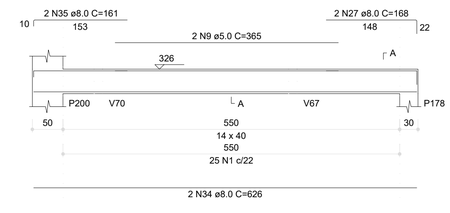

## V112 (14 x 40)
ESC 1:50



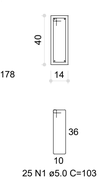

SEÇÃO A-A
ESC 1:25



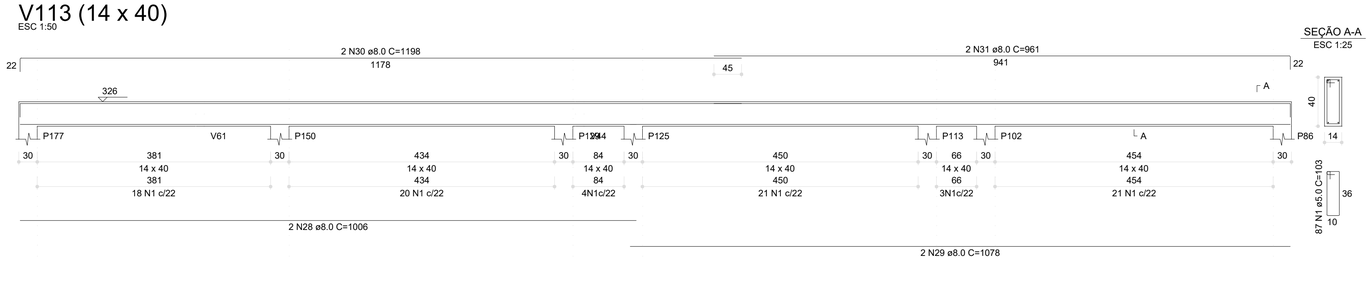

## V115 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



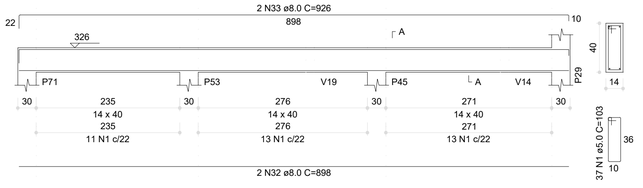

## V113 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



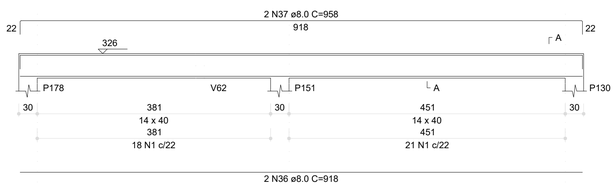

## V114 (14 x 40)
ESC 1:50



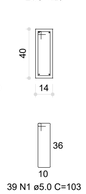

SEÇÃO A-A
ESC 1:25



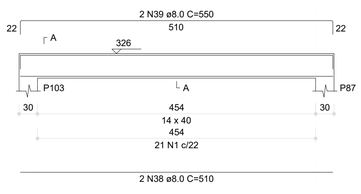

## V116 (14 x 40)
ESC 1:50



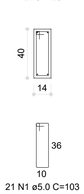

SEÇÃO A-A
ESC 1:25



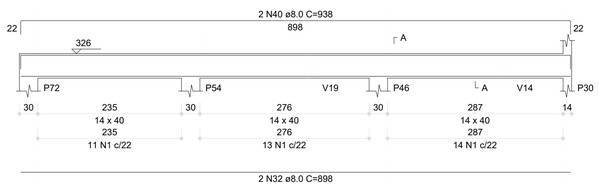

## V117 (14 x 40)
ESC 1:50



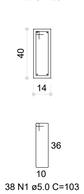

SEÇÃO A-A
ESC 1:25



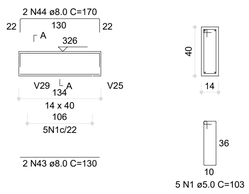

## V118 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



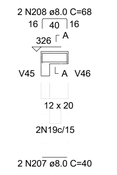

## V120 (14 x 40)
ESC 1:50



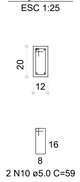

SEÇÃO A-A
ESC 1:25



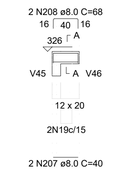

## V121 (12 x 20)
ESC 1:50



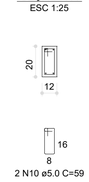

SEÇÃO A-A
ESC 1:25



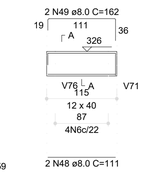

## V122 (12 x 20)
ESC 1:50



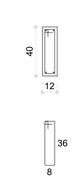

SEÇÃO A-A
ESC 1:25



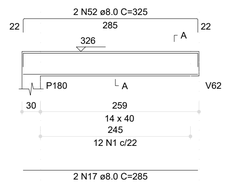

## V123 (12 x 40)
ESC 1:50



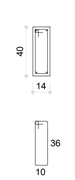

SEÇÃO A-A
ESC 1:25



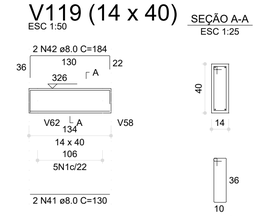

## V125 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V119 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25

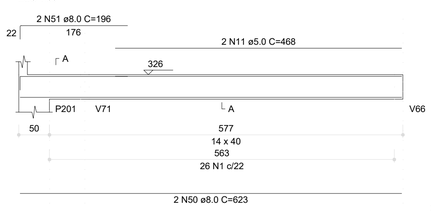



RESUMO DO AÇO

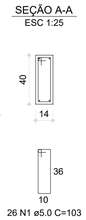
| AÇO | DIÂM (mm) | C.TOTAL (m) | PESO + 0% (kg) |
|---|---|---|---|
| CA50 | 8.0 | 482.9 | 190.5 |
| CA60 | 5.0 | 15.8 | 9.7 |
| | 8.0 | 604.8 | 93.2 |
| PESO TOTAL (kg) | | | |
| CA50 | 200.3 | | |
| CA60 | 93.2 | | |

Volume de concreto (C-30) = 6.45 m³
Área de forma = 108.57 m²

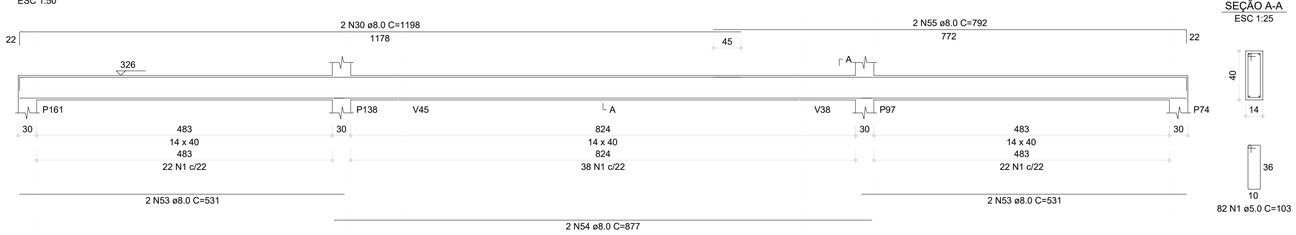
## V124 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V126 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25




**1** ARMAÇÃO DAS VIGAS DO PAVIMENTO COBERTURA - PARTE 05
ESCALA INDICADA

V103 V104 V106
V107 V108 V109
V110 V111 V112
V113 V114 V115
V116 V117 V118
V119 V120 V121
V122 V123 V124
V125 V126

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 527 | 103 | 54281 |
| | 2 | 5.0 | 4 | 156 | 624 |
| | 3 | 5.0 | 2 | 285 | 570 |
| | 4 | 5.0 | 2 | 152 | 608 |
| | 5 | 5.0 | 2 | 378 | 756 |
| | 6 | 5.0 | 8 | 99 | 792 |
| | 7 | 5.0 | 2 | 130 | 260 |
| | 8 | 5.0 | 2 | 342 | 684 |
| | 9 | 5.0 | 2 | 365 | 730 |
| | 10 | 5.0 | 3 | 79 | 237 |
| | 11 | 5.0 | 2 | 468 | 936 |
| CA50 | 12 | 8.0 | 2 | 539 | 1078 |
| | 13 | 8.0 | 2 | 567 | 1134 |
| | 14 | 8.0 | 2 | 693 | 1386 |
| | 15 | 8.0 | 2 | 709 | 1418 |
| | 16 | 8.0 | 2 | 559 | 1118 |
| | 17 | 8.0 | 4 | 285 | 1140 |
| | 18 | 8.0 | 2 | 643 | 1286 |
| | 19 | 8.0 | 2 | 130 | 260 |
| | 20 | 8.0 | 2 | 110 | 220 |
| | 21 | 8.0 | 2 | 161 | 322 |
| | 22 | 8.0 | 2 | 131 | 262 |
| | 23 | 8.0 | 2 | 185 | 370 |
| | 24 | 8.0 | 2 | 150 | 300 |
| | 25 | 8.0 | 2 | 625 | 1250 |
| | 26 | 8.0 | 2 | 183 | 366 |
| | 27 | 8.0 | 2 | 168 | 672 |
| | 28 | 8.0 | 2 | 1006 | 2012 |
| | 29 | 8.0 | 2 | 1078 | 2156 |
| | 30 | 8.0 | 2 | 1198 | 4792 |
| | 31 | 8.0 | 2 | 961 | 1922 |
| | 32 | 8.0 | 4 | 898 | 3592 |
| | 33 | 8.0 | 4 | 926 | 1852 |
| | 34 | 8.0 | 2 | 626 | 1252 |
| | 35 | 8.0 | 2 | 161 | 322 |
| | 36 | 8.0 | 2 | 918 | 1836 |
| | 37 | 8.0 | 2 | 958 | 1916 |
| | 38 | 8.0 | 2 | 510 | 1020 |
| | 39 | 8.0 | 2 | 550 | 1100 |
| | 40 | 8.0 | 2 | 938 | 1876 |
| | 41 | 8.0 | 2 | 130 | 260 |
| | 42 | 8.0 | 2 | 184 | 368 |
| | 43 | 8.0 | 2 | 100 | 200 |
| | 44 | 8.0 | 2 | 170 | 340 |
| | 45 | 8.0 | 2 | 40 | 80 |
| | 46 | 8.0 | 4 | 88 | 352 |
| | 47 | 8.0 | 2 | 52 | 104 |
| | 48 | 8.0 | 2 | 111 | 222 |
| | 49 | 8.0 | 2 | 162 | 324 |
| | 50 | 8.0 | 2 | 623 | 1246 |
| | 51 | 8.0 | 2 | 196 | 392 |
| | 52 | 8.0 | 2 | 325 | 650 |
| | 53 | 8.0 | 2 | 531 | 2124 |
| | 54 | 8.0 | 2 | 877 | 1754 |
| | 55 | 8.0 | 2 | 792 | 1584 |
| | 56 | 10.0 | 2 | 580 | 1160 |
| | 57 | 16.0 | 2 | 209 | 418 |

| Nº | DATA | DESCRIÇÃO |
|---|---|---|
| 03 | JANEIRO/ 2023 | Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019. |
| 02 | JANEIRO/ 2017 | Atendimento à NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da ceramica nos sanitários, cor dos portões dos solarios e altura da porta PA4; Acréscimo: gradil e quadro de cargas no castelo d'água, de duchas higienicas e escaninhos pré-escola. |
| 01 | JULHO/ 2016 | Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda. |

CONTROLE DE REVISÕES

FNDE — MINISTÉRIO DA EDUCAÇÃO

PROJETO PADRÃO - FNDE

PROPRIETÁRIO:

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CAU / CREA

AUTOR DO PROJETO: CAU / CREA

APROVAÇÕES

CAU / CREA

PREFEITURA / RA

OBSERVAÇÕES:

CRECHE PRÉ-ESCOLA TIPO 1

PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional

DETALHAMENTO ARMAÇÃO DAS VIGAS
PAVIMENTO COBERTURA
PARTE 05

SCO

REVISÃO: R.00 R.03 R.01 R.02

ESCALA: 1:25 / 1:50

PRANCHA: 23/34

FORMATO: (841x594)

DATA EMISSÃO: JAN/2023