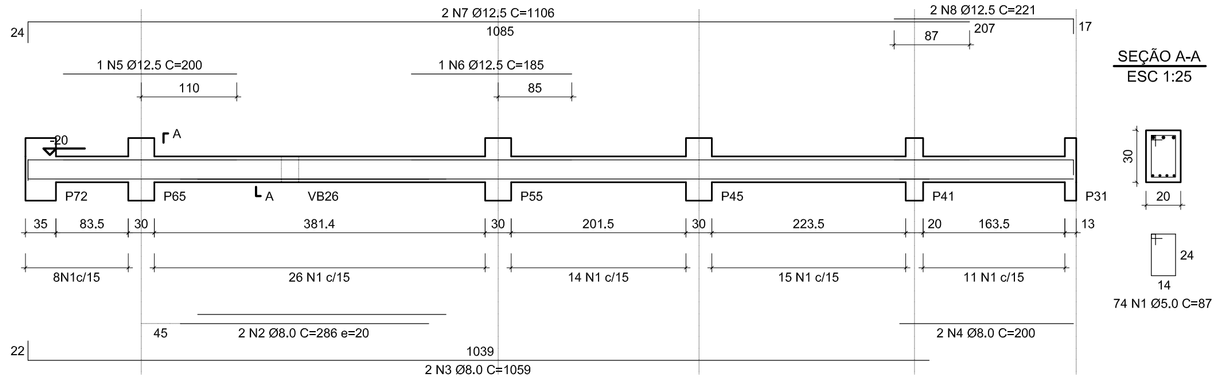
## VB49
1:50

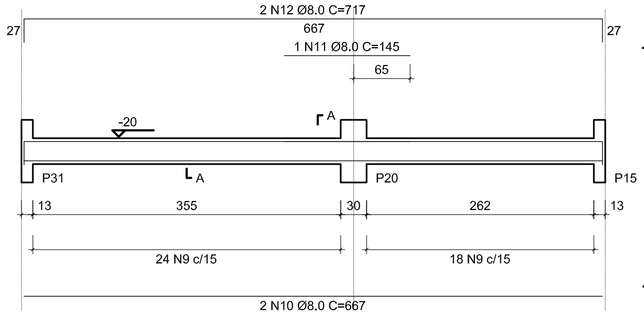



SEÇÃO A-A
ESC 1:25

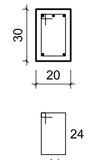



74 N1 Ø5.0 C=87

## VB50
1:50

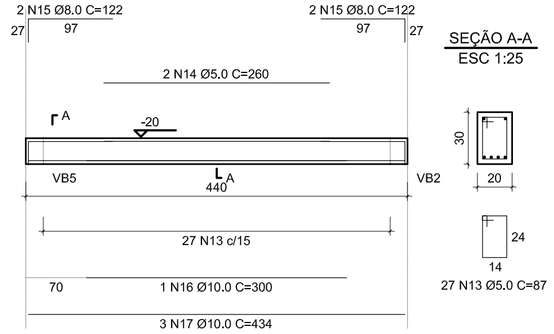



SEÇÃO A-A
ESC 1:25




42 N9 Ø5.0 C=87

## VB51
1:50

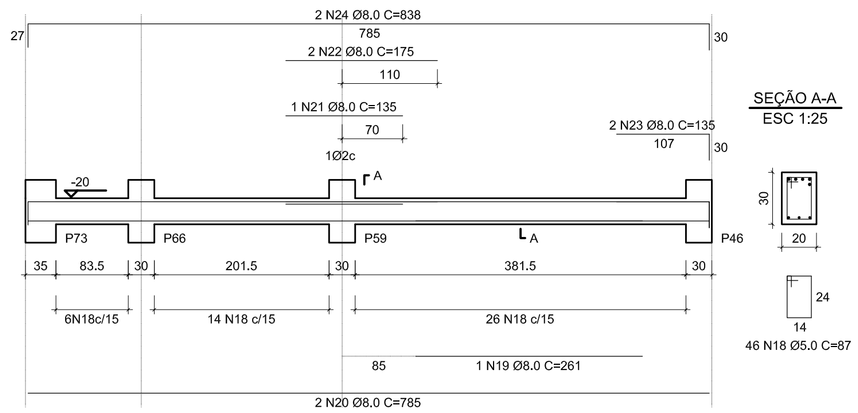



SEÇÃO A-A
ESC 1:25




27 N13 Ø5.0 C=87

## VB52
1:50

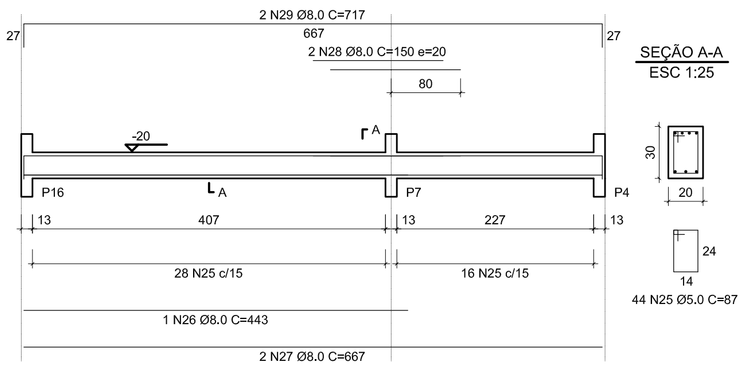



SEÇÃO A-A
ESC 1:25




46 N18 Ø5.0 C=87

## VB53
1:50

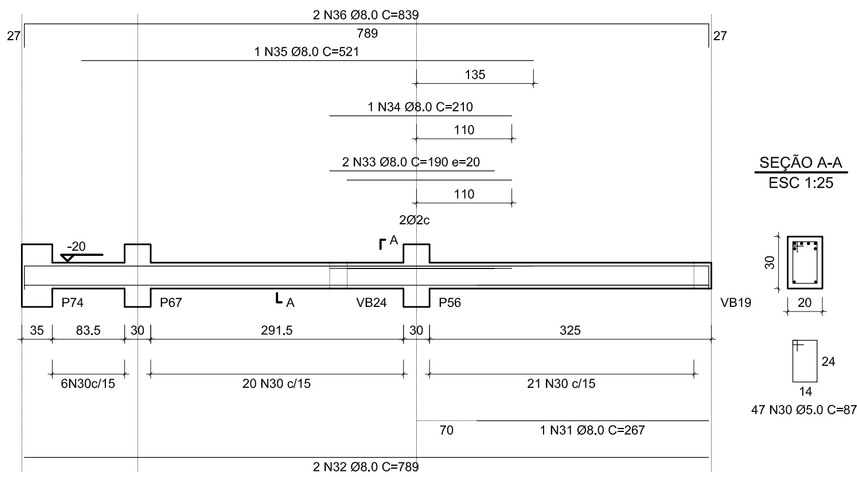



SEÇÃO A-A
ESC 1:25




44 N25 Ø5.0 C=87

## VB54
1:50

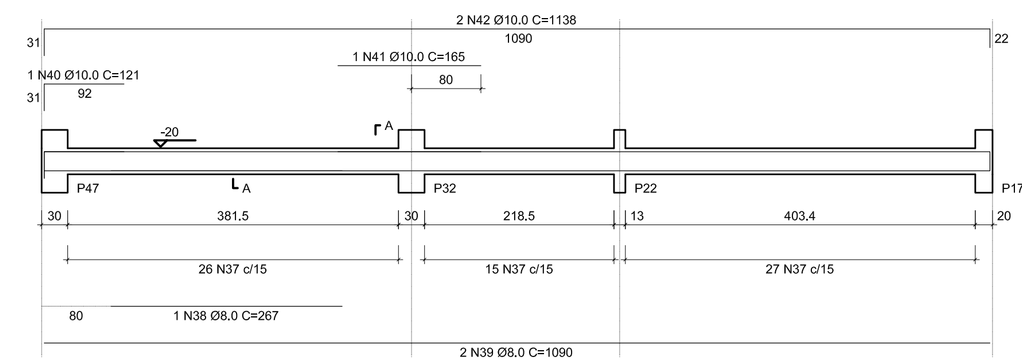



SEÇÃO A-A
ESC 1:25

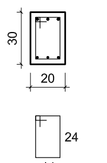



47 N30 Ø5.0 C=87

## VB55
1:50

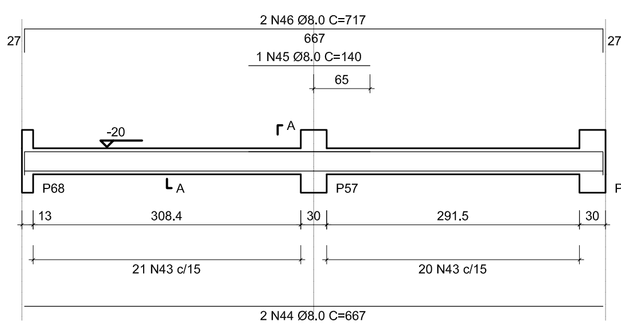



SEÇÃO A-A
ESC 1:25

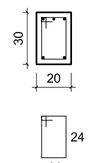



68 N37 Ø5.0 C=87

## VB56
1:50

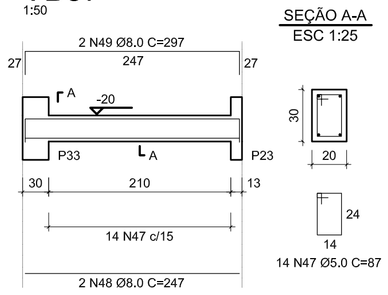



SEÇÃO A-A
ESC 1:25




41 N43 Ø5.0 C=87

## VB57
1:50

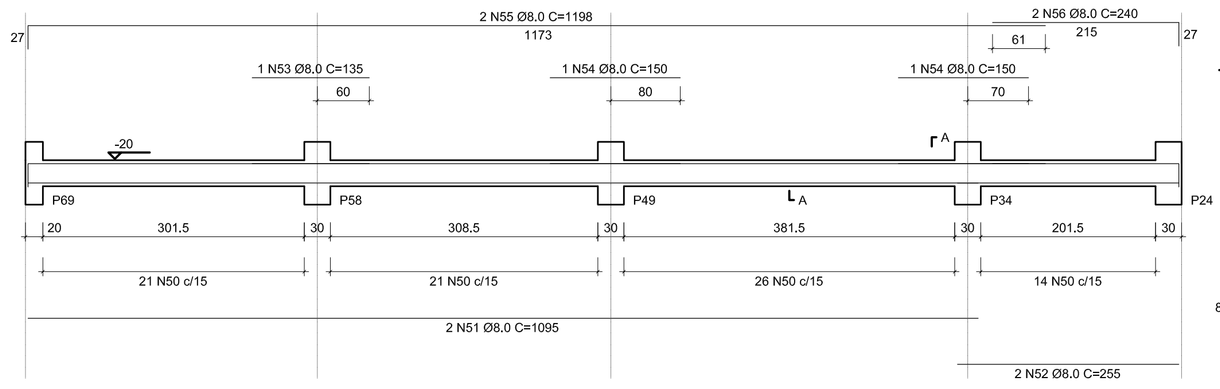



SEÇÃO A-A
ESC 1:25

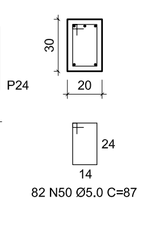



14 N47 Ø5.0 C=87

## VB58
1:50




SEÇÃO A-A
ESC 1:25




82 N50 Ø5.0 C=87

RELAÇÃO DO AÇO

| ELEMENTO | AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| VB49 | 60 | 1 | 5.0 | 74 | 87 | 6438 |
| | 50 | 2 | 8.0 | 2 | 286 | 572 |
| | 50 | 3 | 8.0 | 2 | 1059 | 2118 |
| | 50 | 4 | 8.0 | 2 | 200 | 400 |
| | 50 | 5 | 12.5 | 1 | 200 | 200 |
| | 50 | 6 | 12.5 | 1 | 185 | 185 |
| | 50 | 7 | 12.5 | 2 | 1106 | 2212 |
| | 50 | 8 | 12.5 | 2 | 221 | 442 |
| VB50 | 60 | 9 | 5.0 | 42 | 87 | 3654 |
| | 50 | 10 | 8.0 | 2 | 667 | 1334 |
| | 50 | 11 | 8.0 | 1 | 145 | 145 |
| | 50 | 12 | 8.0 | 2 | 717 | 1434 |
| VB51 | 60 | 13 | 5.0 | 27 | 87 | 2349 |
| | 60 | 14 | 5.0 | 2 | 260 | 520 |
| | 50 | 15 | 8.0 | 4 | 122 | 488 |
| | 50 | 16 | 10.0 | 1 | 300 | 300 |
| | 50 | 17 | 10.0 | 3 | 434 | 1302 |
| VB52 | 60 | 18 | 5.0 | 46 | 87 | 4002 |
| | 50 | 19 | 8.0 | 1 | 261 | 261 |
| | 50 | 20 | 8.0 | 2 | 785 | 1570 |
| | 50 | 21 | 8.0 | 1 | 135 | 135 |
| | 50 | 22 | 8.0 | 2 | 175 | 350 |
| | 50 | 23 | 8.0 | 2 | 135 | 270 |
| | 50 | 24 | 8.0 | 2 | 838 | 1676 |
| VB53 | 60 | 25 | 5.0 | 44 | 87 | 3828 |
| | 50 | 26 | 8.0 | 1 | 443 | 443 |
| | 50 | 27 | 8.0 | 2 | 667 | 1334 |
| | 50 | 28 | 8.0 | 2 | 150 | 300 |
| | 50 | 29 | 8.0 | 2 | 717 | 1434 |
| VB54 | 60 | 30 | 5.0 | 47 | 87 | 4089 |
| | 50 | 31 | 8.0 | 1 | 267 | 267 |
| | 50 | 32 | 8.0 | 2 | 789 | 1578 |
| | 50 | 33 | 8.0 | 2 | 190 | 380 |
| | 50 | 34 | 8.0 | 1 | 210 | 210 |
| | 50 | 35 | 8.0 | 1 | 521 | 521 |
| | 50 | 36 | 8.0 | 2 | 839 | 1678 |
| VB55 | 60 | 37 | 5.0 | 68 | 87 | 5916 |
| | 50 | 38 | 8.0 | 1 | 267 | 267 |
| | 50 | 39 | 8.0 | 2 | 1090 | 2180 |
| | 50 | 40 | 10.0 | 1 | 121 | 121 |
| | 50 | 41 | 10.0 | 1 | 165 | 165 |
| | 50 | 42 | 10.0 | 2 | 1138 | 2276 |
| VB56 | 60 | 43 | 5.0 | 41 | 87 | 3567 |
| | 50 | 44 | 8.0 | 2 | 667 | 1334 |
| | 50 | 45 | 8.0 | 1 | 140 | 140 |
| | 50 | 46 | 8.0 | 2 | 717 | 1434 |
| VB57 | 60 | 47 | 5.0 | 14 | 87 | 1218 |
| | 50 | 48 | 8.0 | 2 | 247 | 494 |
| | 50 | 49 | 8.0 | 2 | 297 | 594 |
| VB58 | 60 | 50 | 5.0 | 82 | 87 | 7134 |
| | 50 | 51 | 8.0 | 2 | 1095 | 2190 |
| | 50 | 52 | 8.0 | 2 | 255 | 510 |
| | 50 | 53 | 8.0 | 1 | 135 | 135 |
| | 50 | 54 | 8.0 | 2 | 150 | 300 |
| | 50 | 55 | 8.0 | 2 | 1198 | 2396 |
| | 50 | 56 | 8.0 | 2 | 240 | 480 |

RESUMO DO AÇO

| AÇO | DIAM | C.TOTAL (m) | PESO+10% (kg) |
|---|---|---|---|
| CA50 | 8.0 | 313.6 | 136.1 |
| | 10.0 | 41.6 | 28.2 |
| | 12.5 | 30.4 | 32.2 |
| CA60 | 5.0 | 429.6 | 72.8 |
| PESO TOTAL | | | |
| CA50 | 196.6 | | |
| CA60 | 72.8 | | |

Vol. concreto total = 4.76 m³
Área de forma total = 63.51 m²

Ministério da Educação

FNDE Fundo Nacional de Desenvolvimento da Educação

PROINFÂNCIA - ESPAÇO EDUCATIVO INFANTIL

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO: FUNDO NACIONAL DE DESENVOLVIMENTO DA EDUCAÇÃO - FNDE

AUTORES DO PROJETO :

RESPONSÁVEL TÉCNICO:

PROPRIETÁRIO

AUTOR DO PROJETO CREA/

AUTOR DO PROJETO CREA/

RESP. TÉCNICO CREA

DLFO

CREA

RA

PROJETO TIPO C

PROJETO ESTRURUTAL

COORDENAÇÃO
CGEST - Coordenação Geral de Infra-estrutura

VIGAS BALDRAMES
PRANCHA 04

ES

DESENHO

REVISÃO
R.00
R.00
R.00

ESCALA
INDICADA

DATA EMISSÃO
MAR/2010

PRANCHA
10/21