## Relação do aço

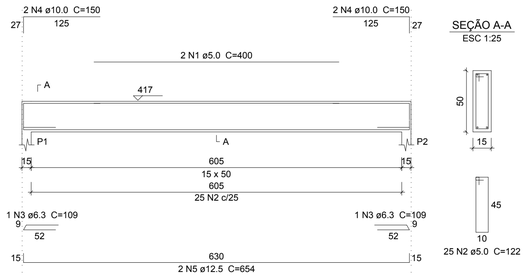
| ELEMENTO | AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| VR1 | CA60 | 1 | 5.0 | 2 | 400 | 800 |
| | CA60 | 2 | 5.0 | 25 | 122 | 3050 |
| | CA50 | 3 | 6.3 | 2 | 109 | 218 |
| | CA50 | 4 | 10.0 | 4 | 150 | 600 |
| | CA50 | 5 | 12.5 | 2 | 654 | 1308 |
| VR2 | CA60 | 1 | 5.0 | 2 | 515 | 1030 |
| | CA60 | 2 | 5.0 | 108 | 122 | 13176 |
| | CA50 | 3 | 10.0 | 2 | 603 | 1206 |
| | CA50 | 4 | 10.0 | 2 | 213 | 426 |
| | CA50 | 5 | 10.0 | 2 | 1200 | 2400 |
| | CA50 | 6 | 10.0 | 2 | 967 | 1934 |
| | CA50 | 7 | 12.5 | 4 | 920 | 3680 |
| | CA50 | 8 | 12.5 | 2 | 610 | 1220 |
| | CA50 | 9 | 12.5 | 2 | 613 | 1226 |
| VR4 | CA60 | 1 | 5.0 | 2 | 355 | 710 |
| | CA60 | 2 | 5.0 | 73 | 122 | 8906 |
| | CA50 | 3 | 6.3 | 2 | 109 | 218 |
| | CA50 | 4 | 10.0 | 2 | 560 | 1120 |
| | CA50 | 5 | 10.0 | 2 | 1198 | 2396 |
| | CA50 | 6 | 10.0 | 2 | 235 | 470 |
| | CA50 | 7 | 10.0 | 2 | 185 | 370 |
| | CA50 | 8 | 12.5 | 2 | 642 | 1284 |
| | CA50 | 9 | 12.5 | 2 | 702 | 1404 |
| VR5 | CA60 | 1 | 5.0 | 19 | 82 | 1558 |
| | CA50 | 2 | 8.0 | 2 | 330 | 660 |
| | CA50 | 3 | 8.0 | 2 | 366 | 732 |
| VR6 | CA60 | 1 | 5.0 | 21 | 82 | 1722 |
| | CA60 | 2 | 5.0 | 20 | 122 | 2440 |
| | CA50 | 3 | 8.0 | 2 | 328 | 656 |
| | CA50 | 4 | 10.0 | 2 | 533 | 1066 |
| | CA50 | 5 | 10.0 | 2 | 892 | 1784 |
| VR7 | CA60 | 1 | 5.0 | 19 | 82 | 1558 |
| | CA50 | 2 | 8.0 | 2 | 330 | 660 |
| | CA50 | 3 | 8.0 | 2 | 366 | 732 |
| VR8 | CA60 | 1 | 5.0 | 2 | 330 | 660 |
| | CA60 | 2 | 5.0 | 24 | 122 | 2928 |
| | CA50 | 3 | 6.3 | 1 | 109 | 109 |
| | CA50 | 4 | 10.0 | 2 | 175 | 350 |
| | CA50 | 5 | 10.0 | 2 | 165 | 330 |
| | CA50 | 6 | 12.5 | 2 | 637 | 1274 |

## Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 6.3 | 5.5 | 1.3 |
| | 8.0 | 34.4 | 13.6 |
| | 10.0 | 144.6 | 89.1 |
| | 12.5 | 114 | 109.82 |
| CA60 | 5.0 | 385.4 | 59.4 |
| PESO TOTAL | | | |
| CA50 | 214.5 | | |
| CA60 | 59.4 | | |

Vol. de concreto total (C-25) = 5.26 m³
Área de forma total = 81.25 m²

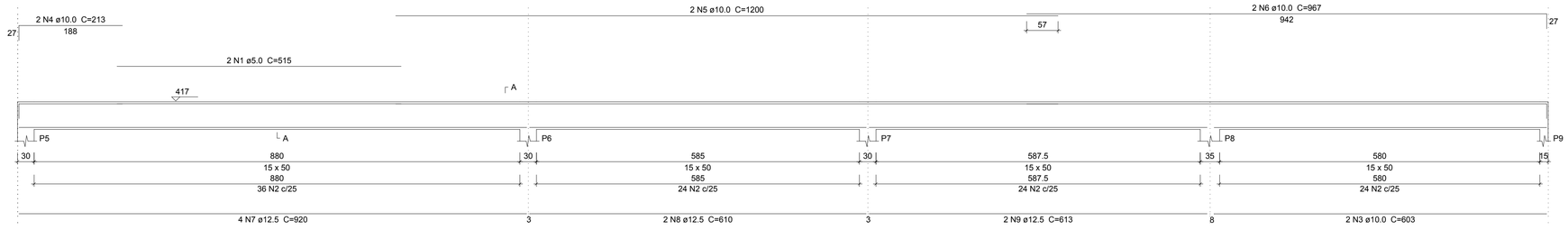
## VR1
ESC 1:50



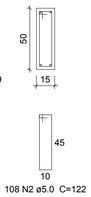

SEÇÃO A-A
ESC 1:25



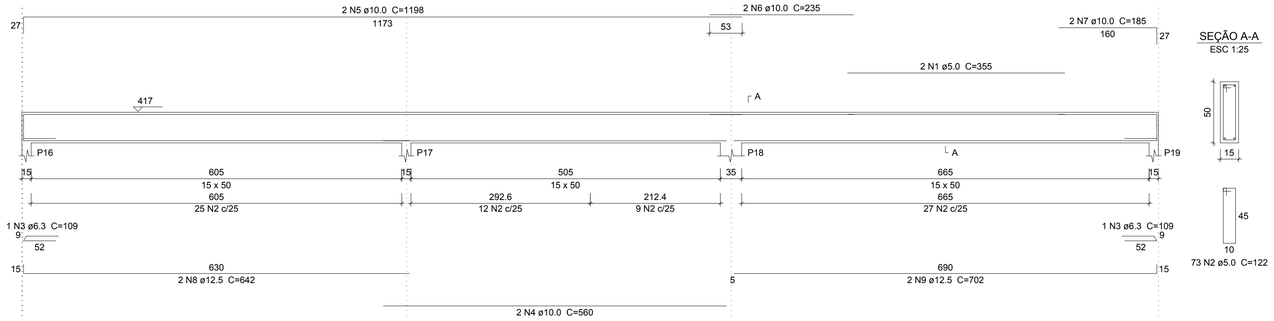

## VR2
ESC 1:50




SEÇÃO A-A
ESC 1:25



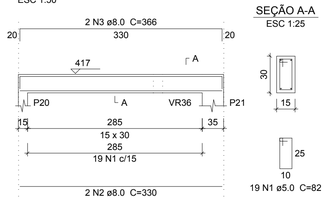

## VR4
ESC 1:50




SEÇÃO A-A
ESC 1:25

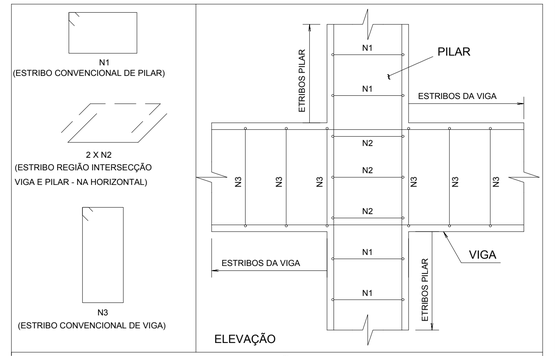



## VR5
ESC 1:50



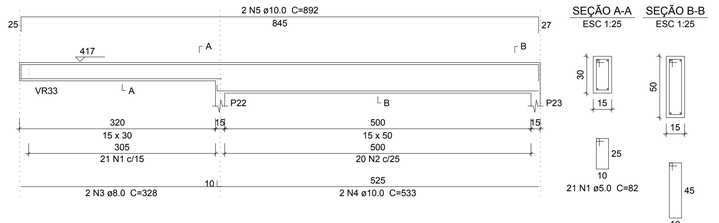

SEÇÃO A-A
ESC 1:25




## DETALHE ESTRIBO LIGAÇÃO VIGA E PILAR
S/ESCALA

## VR6
ESC 1:50



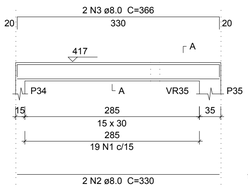

SEÇÃO A-A
ESC 1:25



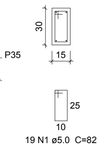

SEÇÃO B-B
ESC 1:25



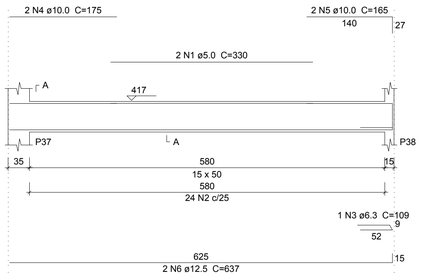

## VR7
ESC 1:50



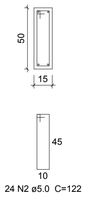

SEÇÃO A-A
ESC 1:25




## VR8
ESC 1:50




SEÇÃO A-A
ESC 1:25




| | |
|---|---|
| TIPO DA OBRA: | REESTRUTURAÇÃO DA ESCOLA ESTADUAL JOSÉ ALVES BEZERRA |
| PROPRIETÁRIO CPF OU CGC: | PREFEITURA MUNICIPAL DE PORTO DOS GAÚCHOS |
| LOCAL E INSCRIÇÃO CADASTRAL: | Endereço: Av. Guilherme Meyer<br>Municipio de Porto dos Gaúchos - MATO GROSSO |
| AUTOR DO PROJETO:<br>CREA: | Evelin Luani Montagna<br>MT 039125 |
| RESPONSÁVEL TÉCNICO:<br>CREA: | Evelin Luani Montagna<br>MT 039125 |
| ESCALA: INDICADA / DATA:OUT/2019 | ASSUNTO:<br>PROJETO ESTRUTURAL:<br>PLANTA DE ARMAÇÃO DAS VIGAS<br>VR1,VR2,VR4,VR5,VR6,VR8 |
| DESENHO: | FOLHA Nº 36/45 |

E S T A T Í S T I C A

| ÁREAS: | % DE OCUPAÇÃO | | COEF. APROVEIT. | Nº DE PISOS |
|---|---|---|---|---|
| | TÉRREO | DEMAIS PAV. | | |
| VER PROJETO ARQUITETONICO | | | | 01 |