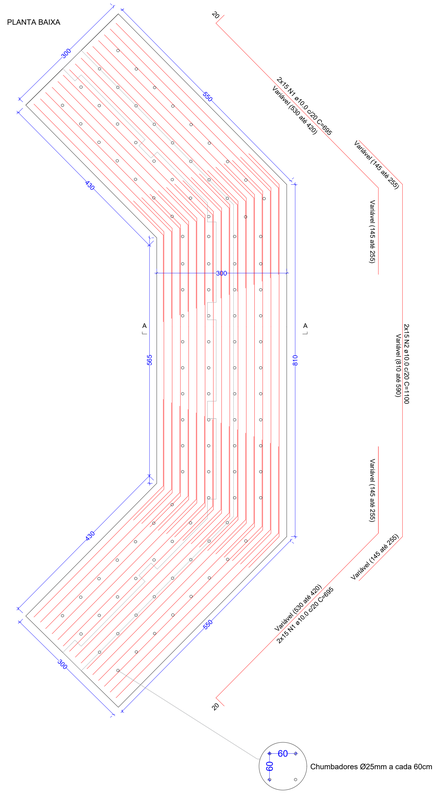
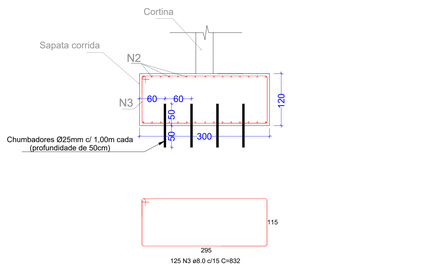
## Detalhamento das fundações (x2)



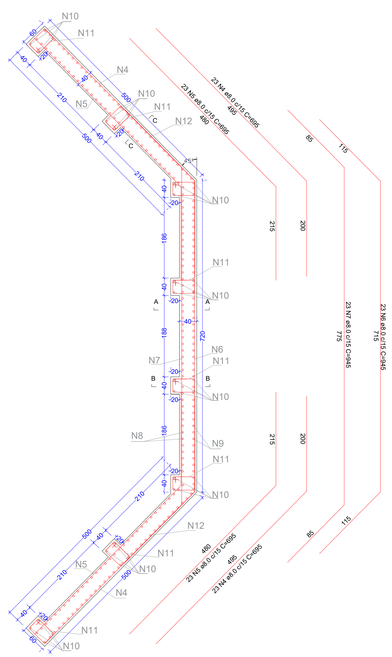

### Relação do aço

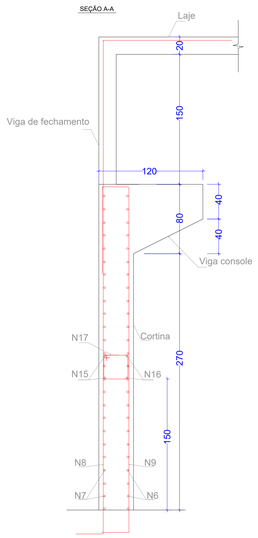
| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA50 | 1 | 10.0 | 120 | 695 | 83400 |
| | 2 | 10.0 | 60 | 1100 | 66000 |
| | 3 | 8.0 | 250 | 832 | 208000 |

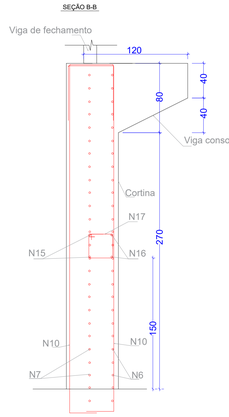
### Resumo do aço

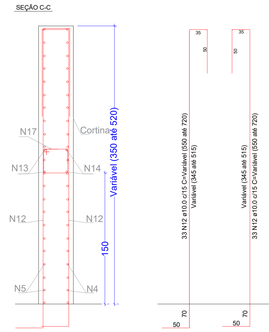
| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% PERDA (kg) |
|---|---|---|---|
| CA50 | 8.0 | 2080 | 903.76 |
| | 10.0 | 1494.00 | 1013.97 |

## Detalhamento das cortinas
## Cortina 1 (Sul)



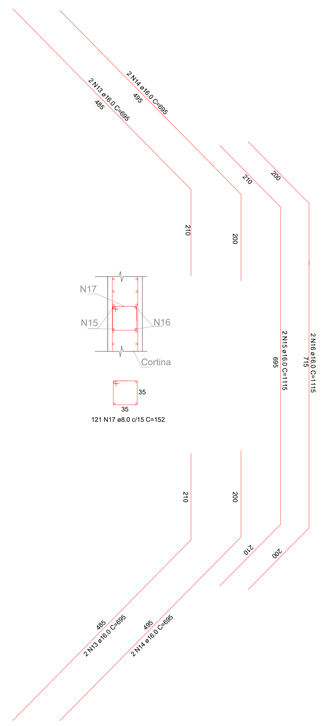



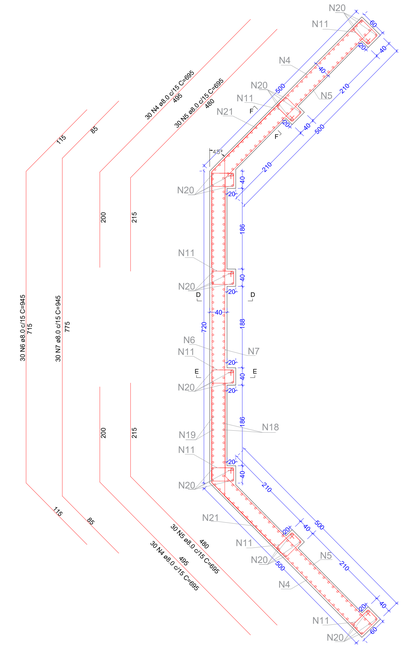



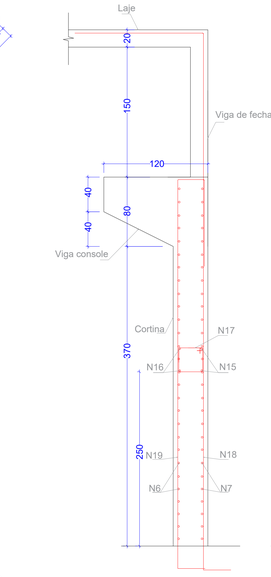


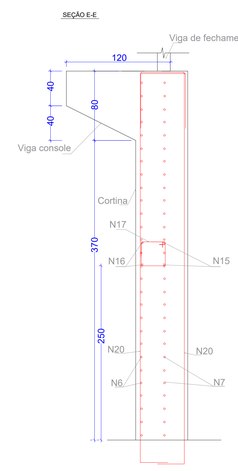


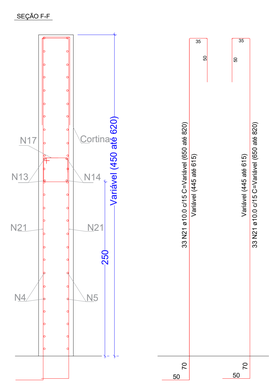



## Detalhamento das cortinas
## Cortina 2 (Norte)



### Relação do aço

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA50 | 4 | 8.0 | 106 | 695 | 73670 |
| | 5 | 8.0 | 106 | 695 | 73670 |
| | 6 | 8.0 | 53 | 945 | 50085 |
| | 7 | 8.0 | 53 | 945 | 50085 |
| | 8 | 10.0 | 48 | 735 | 35280 |
| | 9 | 10.0 | 48 | 590 | 28320 |
| | 10 | 16.0 | 32 | 590 | 18880 |
| | 11 | 8.0 | 424 | 192 | 81408 |
| | 12 | 10.0 | 132 | 635 | 83820 |
| | 13 | 16.0 | 8 | 695 | 5560 |
| | 14 | 16.0 | 8 | 695 | 5560 |
| | 15 | 16.0 | 4 | 1115 | 4460 |
| | 16 | 16.0 | 4 | 1115 | 4460 |
| | 17 | 8.0 | 242 | 152 | 36784 |
| | 18 | 10.0 | 48 | 835 | 40080 |
| | 19 | 10.0 | 48 | 690 | 33120 |
| | 20 | 16.0 | 32 | 690 | 22080 |
| | 21 | 10.0 | 132 | 735 | 97020 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% PERDA (kg) |
|---|---|---|---|
| CA50 | 8.0 | 3657.02 | 1588.97 |
| | 10.0 | 3176.40 | 2155.82 |
| | 16.0 | 610.00 | 1058.83 |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CONVICÇÃO ENGENHARIA

# Projeto de construção de ponte
# Linha Três Reis

LOCAL: Linha Três Reis, Relvado/RS (29º 9' 59"S , 52º 4' 38"O)

☐ AMPLIAÇÃO ☐ INTERIORES ☐ REFORMA ☐ REGULARIZAÇÃO ■ OBRA NOVA

PROPRIETÁRIO (a) - Prefeitura Municipal de Relvado

PROJETO E RESP. TÉCNICA - Eng. Luís Antônio Chanan
CREA/RS - 223549

Detalhamento estrutura

ÁREA TOTAL: 146,16m²

DATA - Junho de 2026

ESCALA - na prancha

PRANCHA Nº 03