

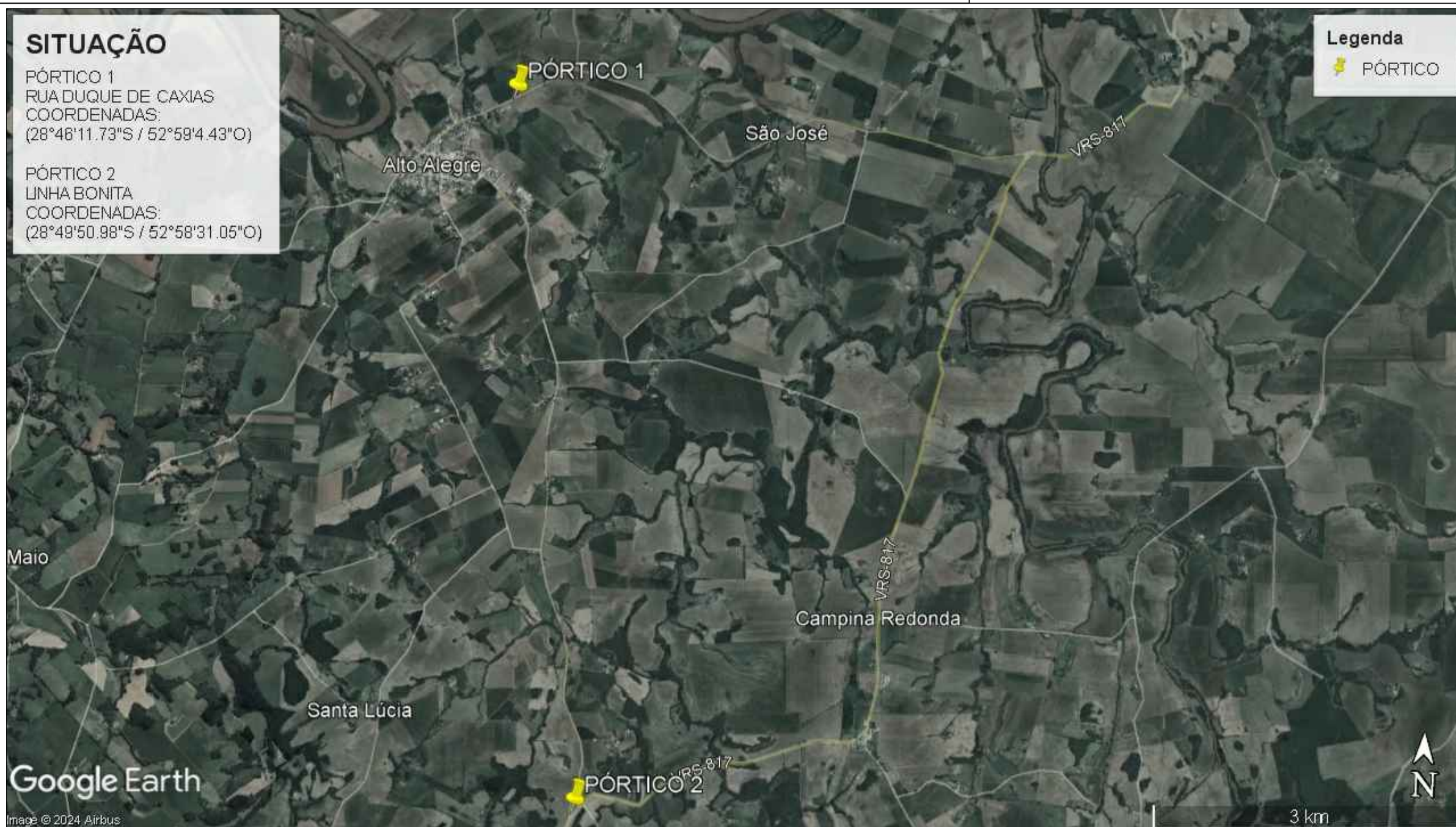
# SITUAÇÃO

PÓRTICO 1  
RUA DUQUE DE CAXIAS  
COORDENADAS:  
(28°46'11.73"S / 52°59'4.43"O)

PÓRTICO 2  
LINHA BONITA  
COORDENADAS:  
(28°49'50.98"S / 52°58'31.05"O)

## Legenda

 PÓRTICO



**1** SITUAÇÃO  
INDICADA



Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

## PROJETO ARQUITETÔNICO

Responsável Técnico  
Calebe Pedroso Horbach - CREA/RS 243.486

Requerente  
Município de Alto Alegre



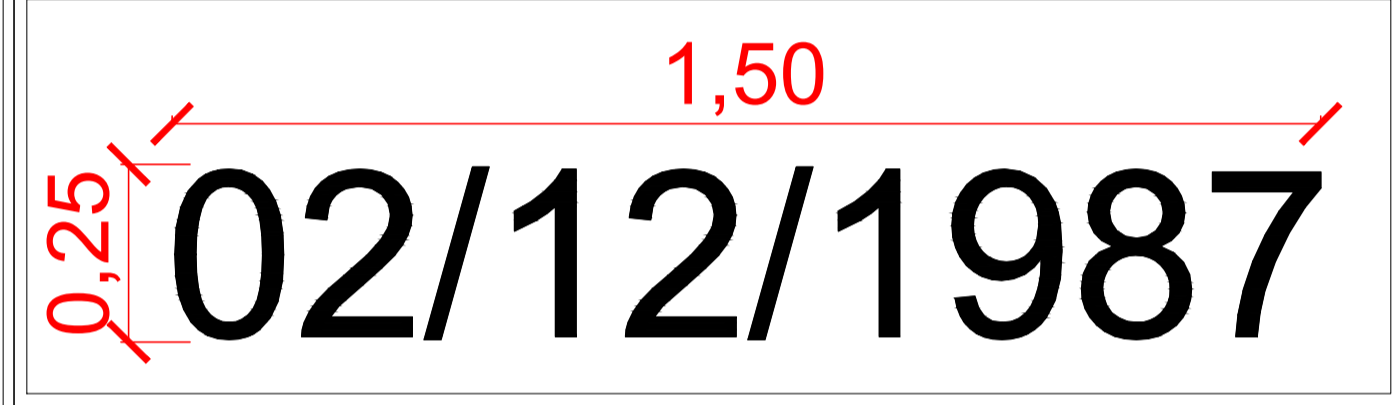
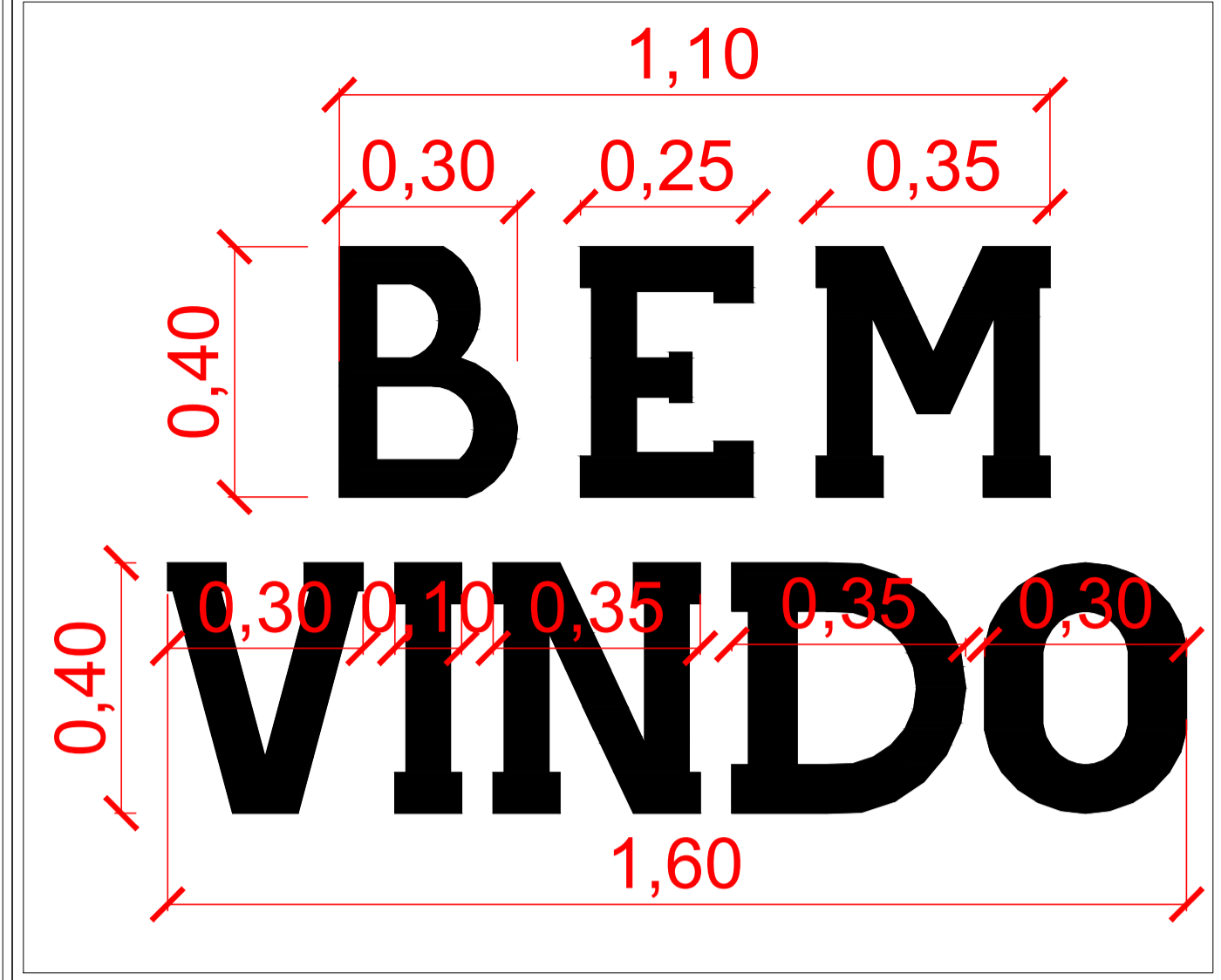
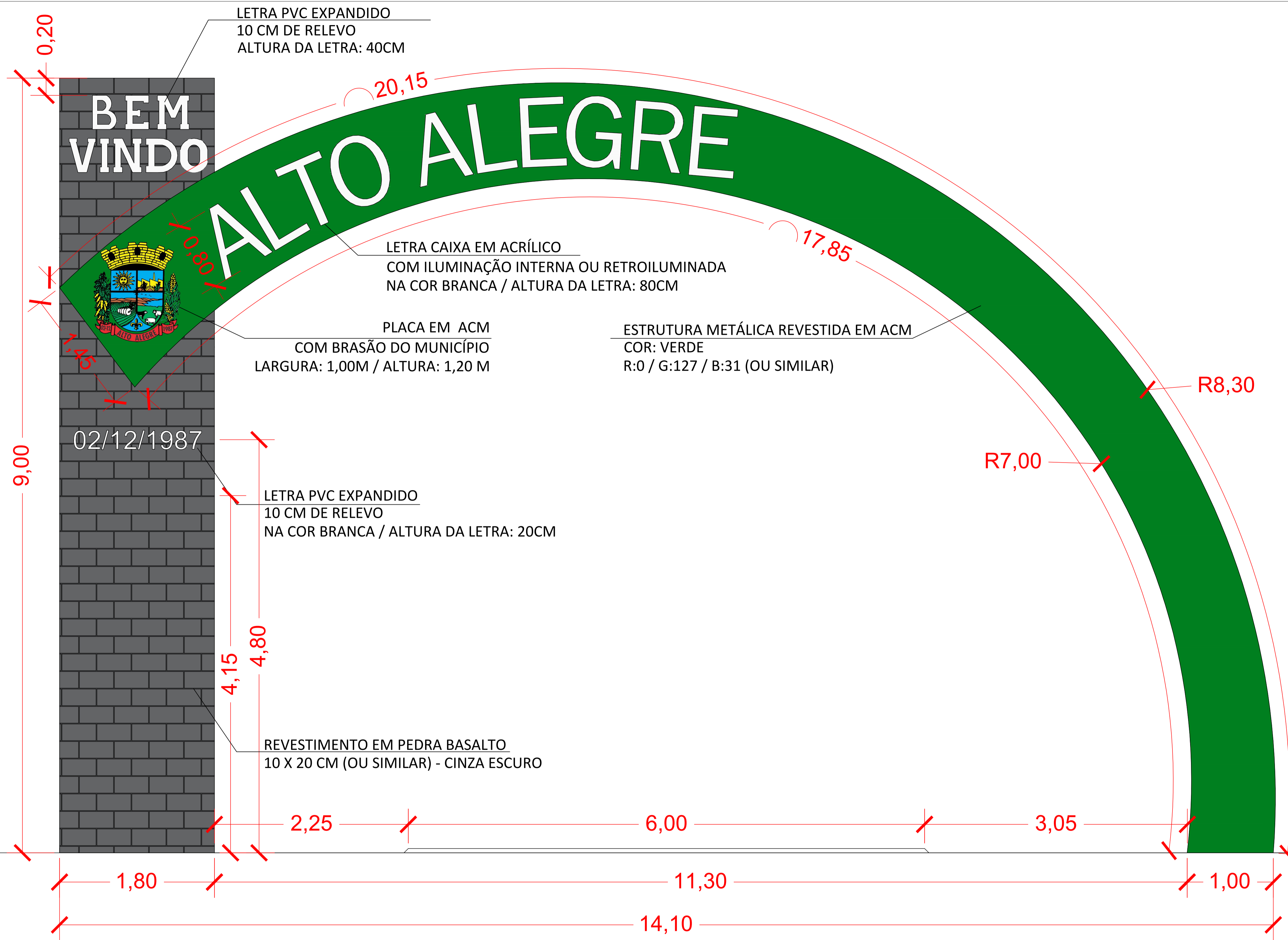
Prefeitura Municipal de Alto Alegre / RS  
SETOR DE ENGENHARIA  
R. Recreio, 233 - Alto Alegre, RS, 99430-000  
(54) 3382-1030  
Julho / 2024

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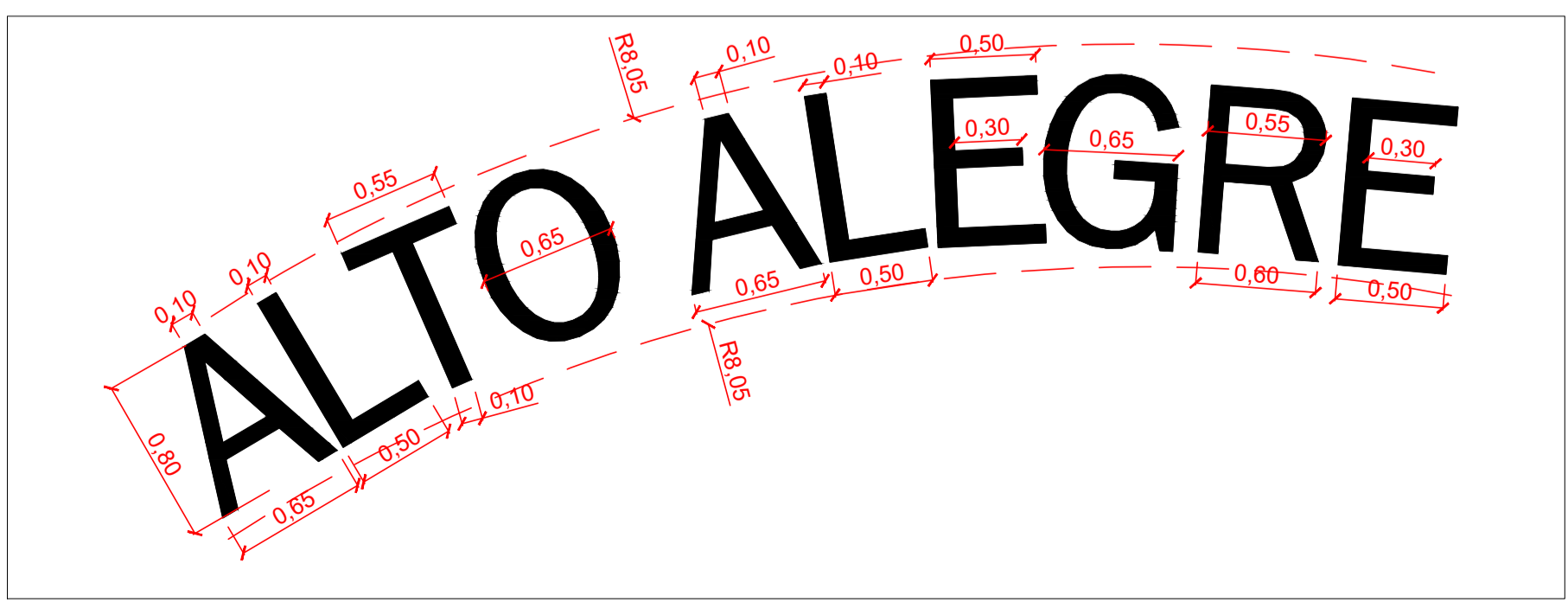
Esc.



01  
Prancha



**1** VISTA FRONTAL  
1:25



Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

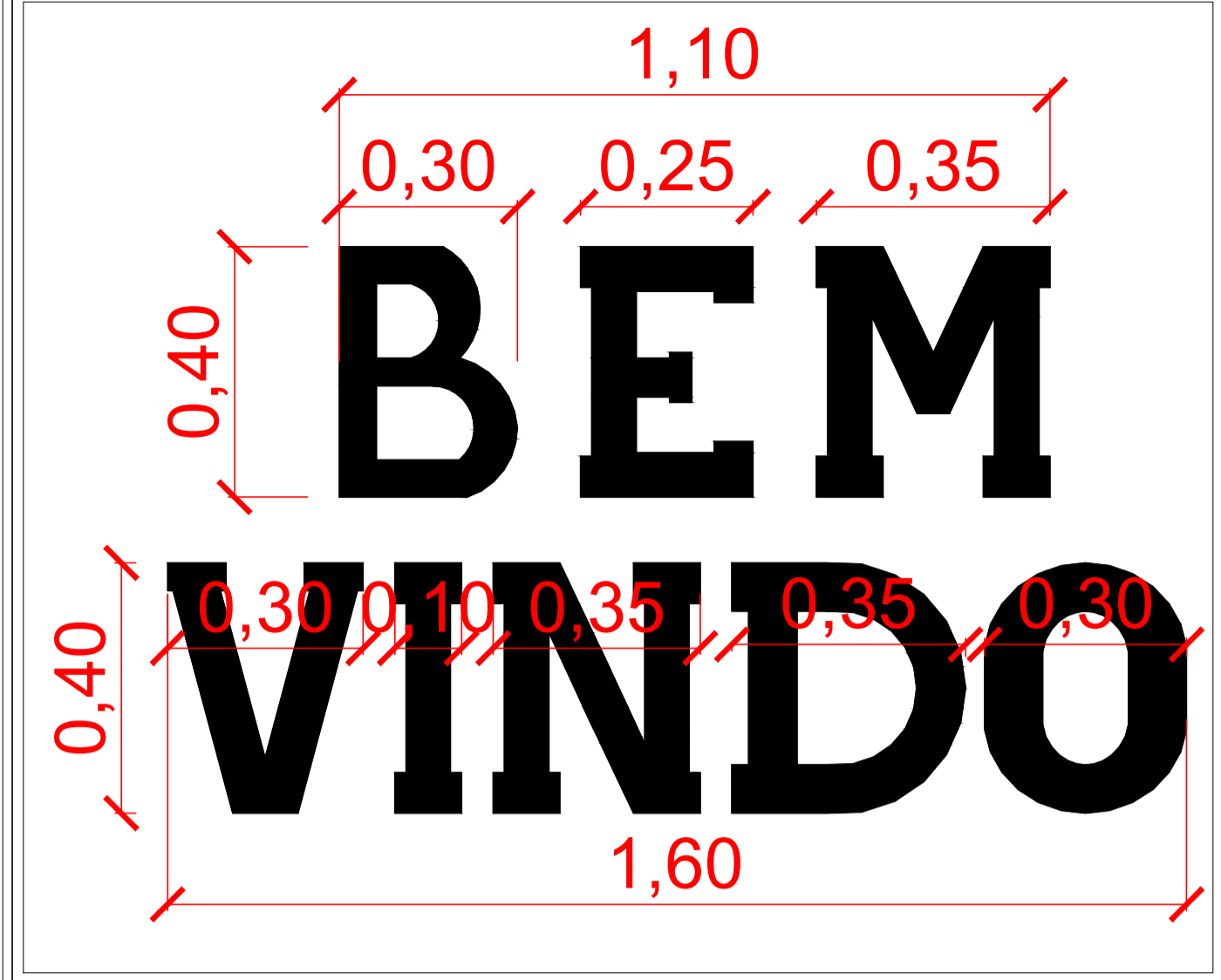
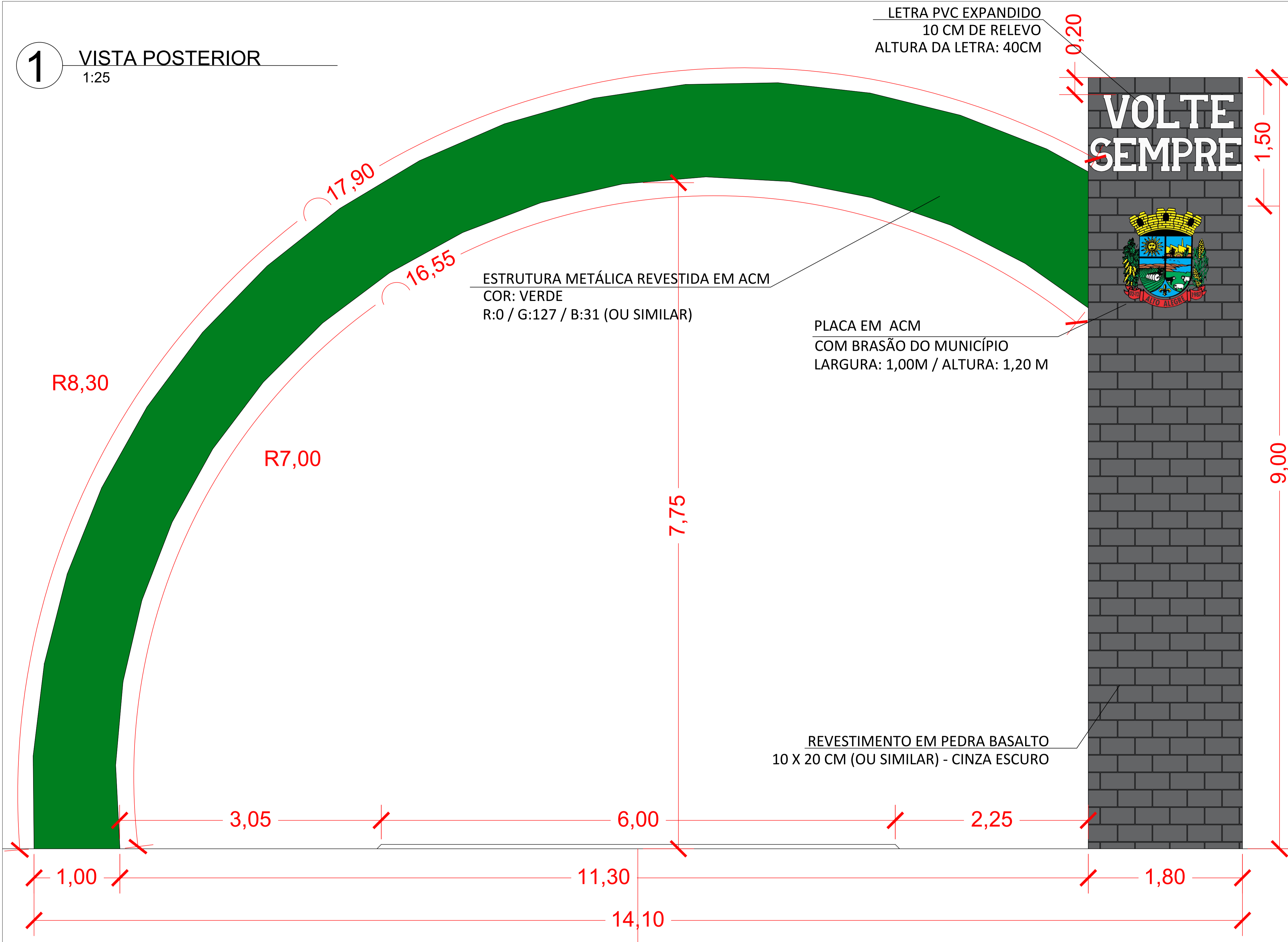
PROJETO ARQUITETÔNICO

Responsável Técnico: Calebe Pedroso Horbach - CREA/RS 243.486  
Requerente: Município de Alto Alegre

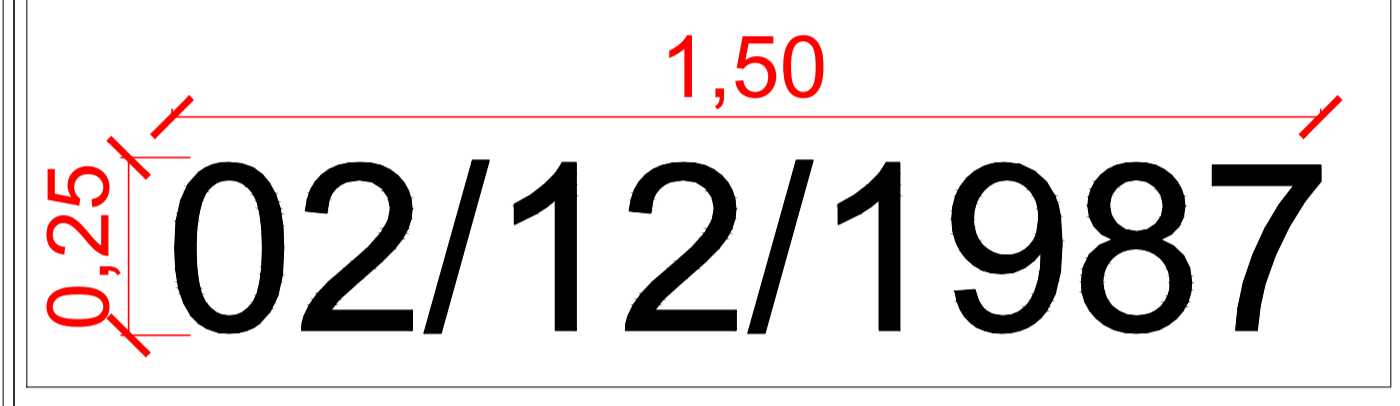
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IND. Esc. **ALTO alegre** 02 Prancha

**1 VISTA POSTERIOR**  
1:25

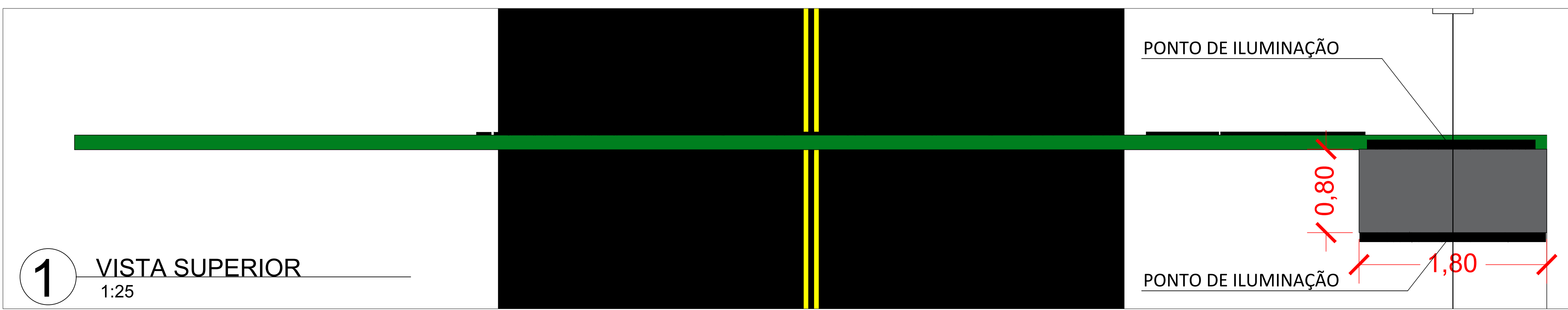


**4 DETALHE LETRAS**  
SEM ESCALA



**5 DETALHE LETRAS**  
SEM ESCALA

**1 VISTA SUPERIOR**  
1:25



Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

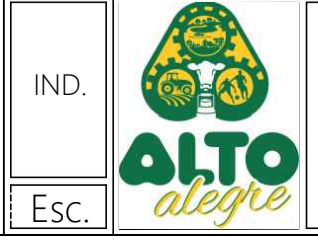
PROJETO ARQUITETÔNICO

Responsável Técnico  
Calebe Pedroso Horbach - CREA/RS 243.486

Requerente  
Município de Alto Alegre



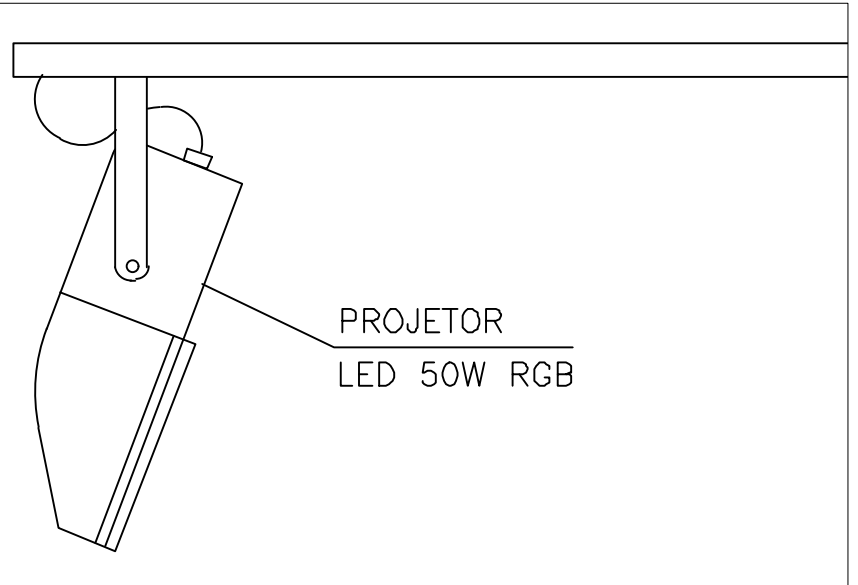
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IND. 03  
Esc. Prancha



**1** PLANTA BAIXA  
SEM ESCALA



**2** DETALHE REFLETOR  
SEM ESCALA

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

PROJETO ELÉTRICO

Responsável Técnico  
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Requerente  
Município de Alto Alegre

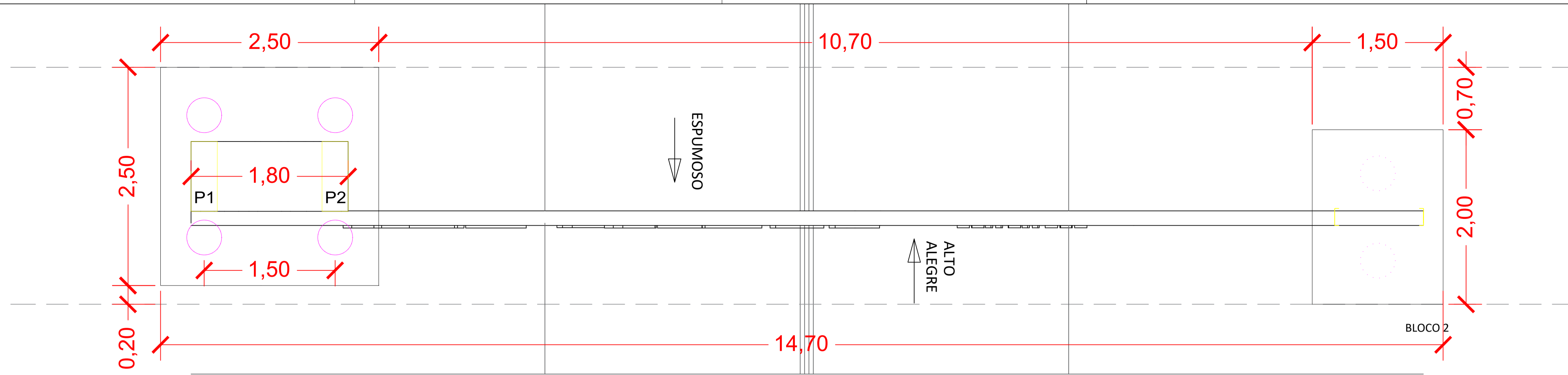


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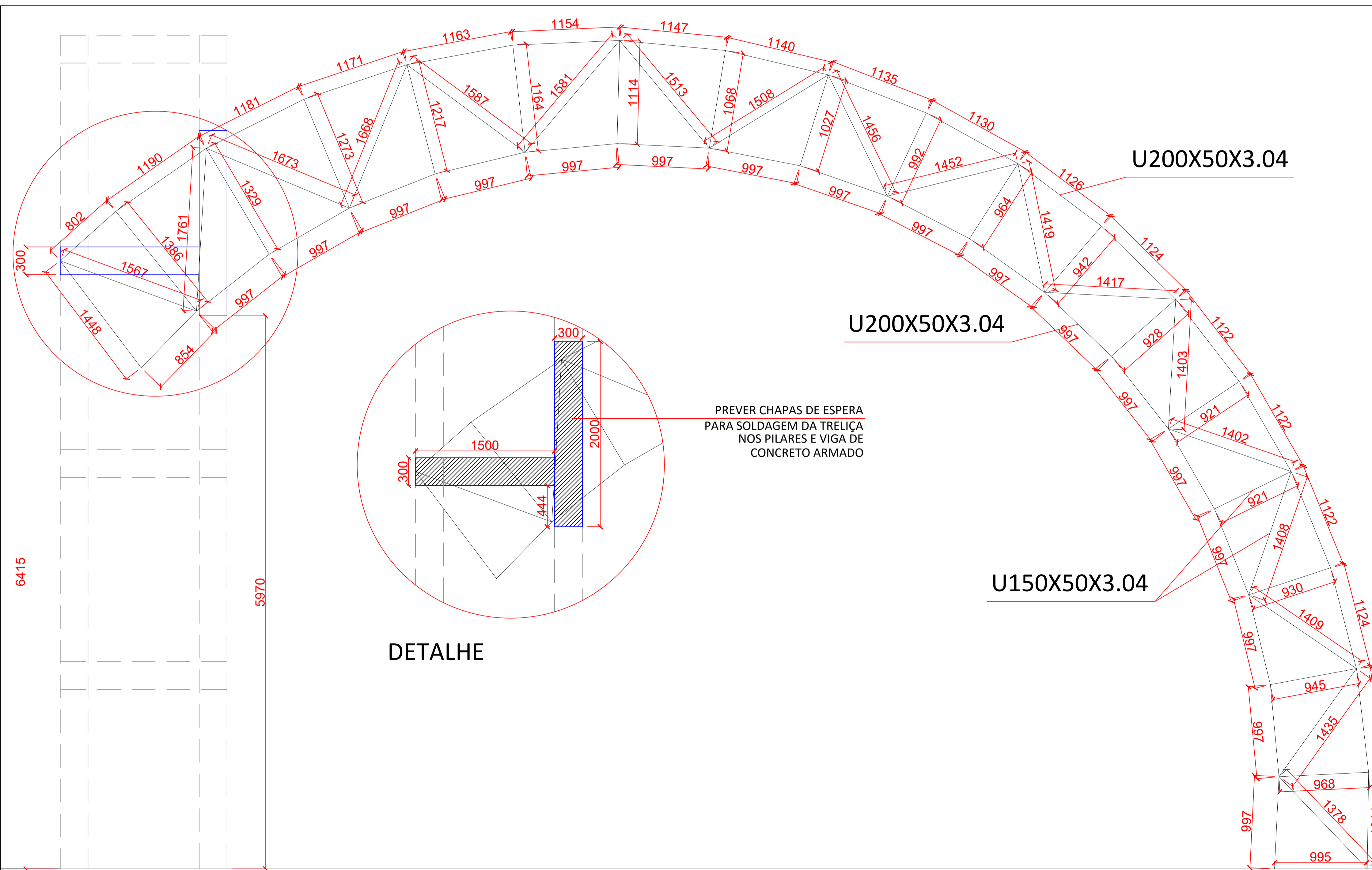
IND.  
Esc.



**04**  
Prancha



**1** VISTA SUPERIOR  
S/ ESCALA



**DETALHE**

PREVER CHAPAS DE ESPERA  
PARA SOLDAGEM DA TRELIÇA  
NOS PILARES E VIGA DE  
CONCRETO ARMADO

**2** VISTA FRONTAL  
1:25

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

PROJETO ESTRUTURAL

Responsável Técnico  
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Requerente  
Município de Alto Alegre



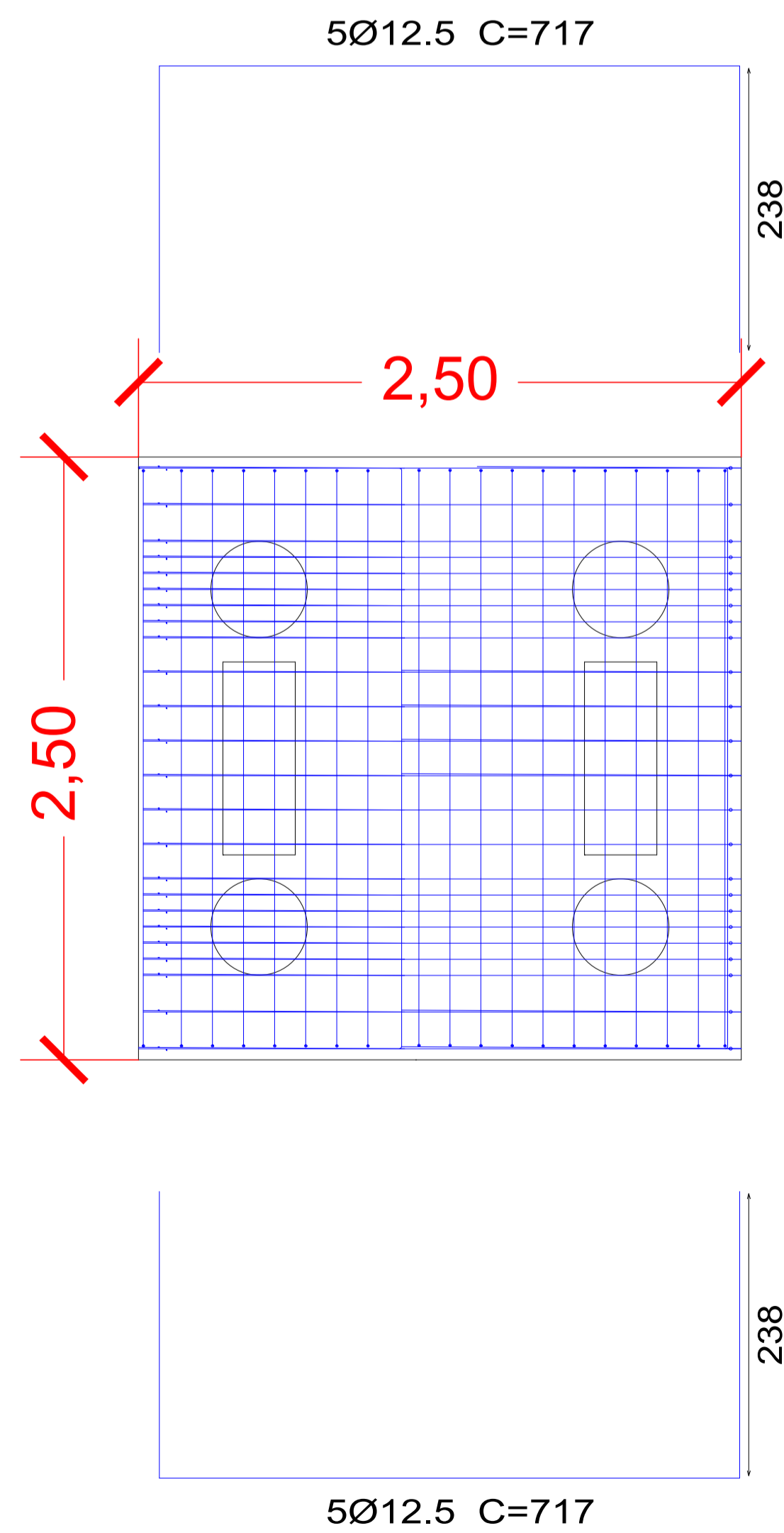
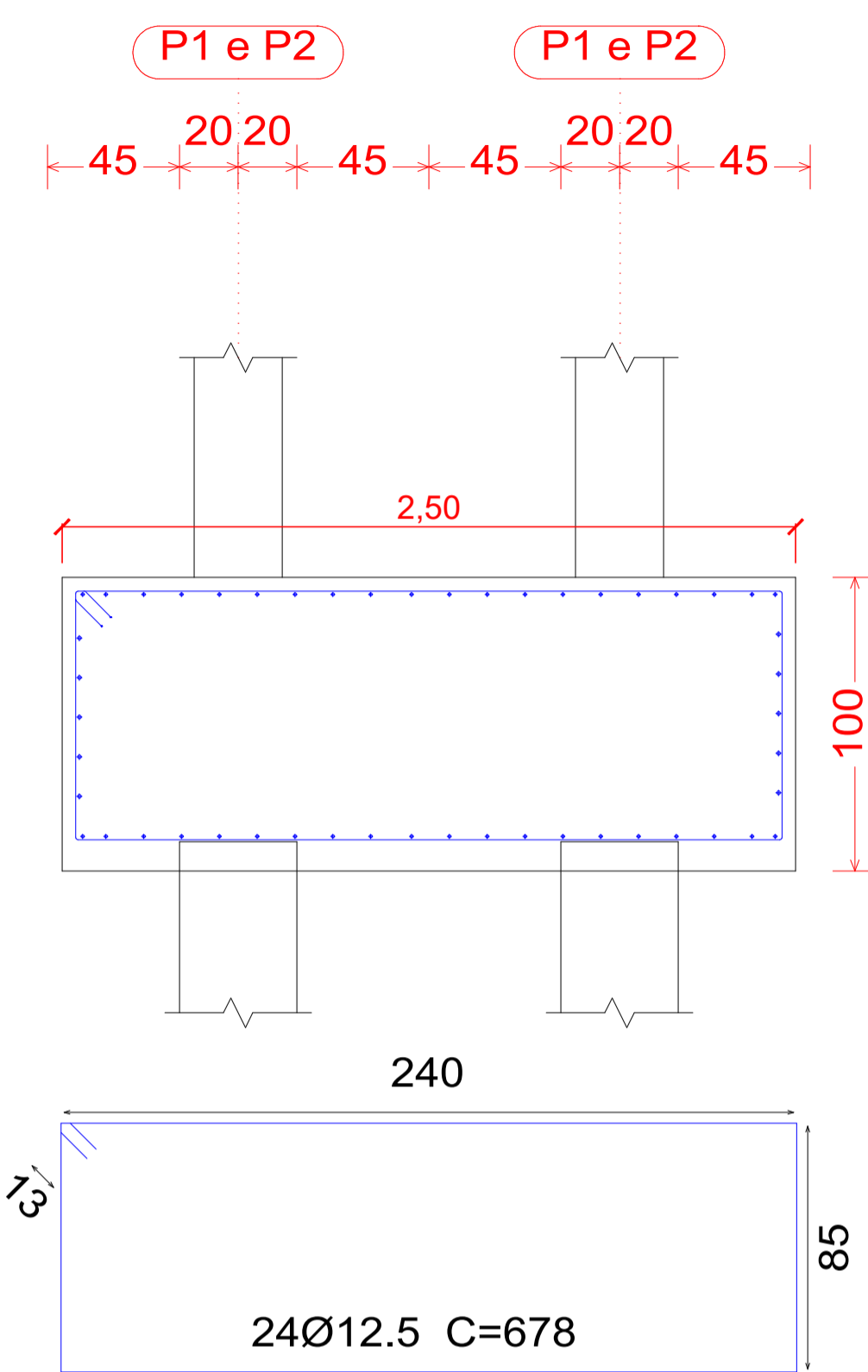
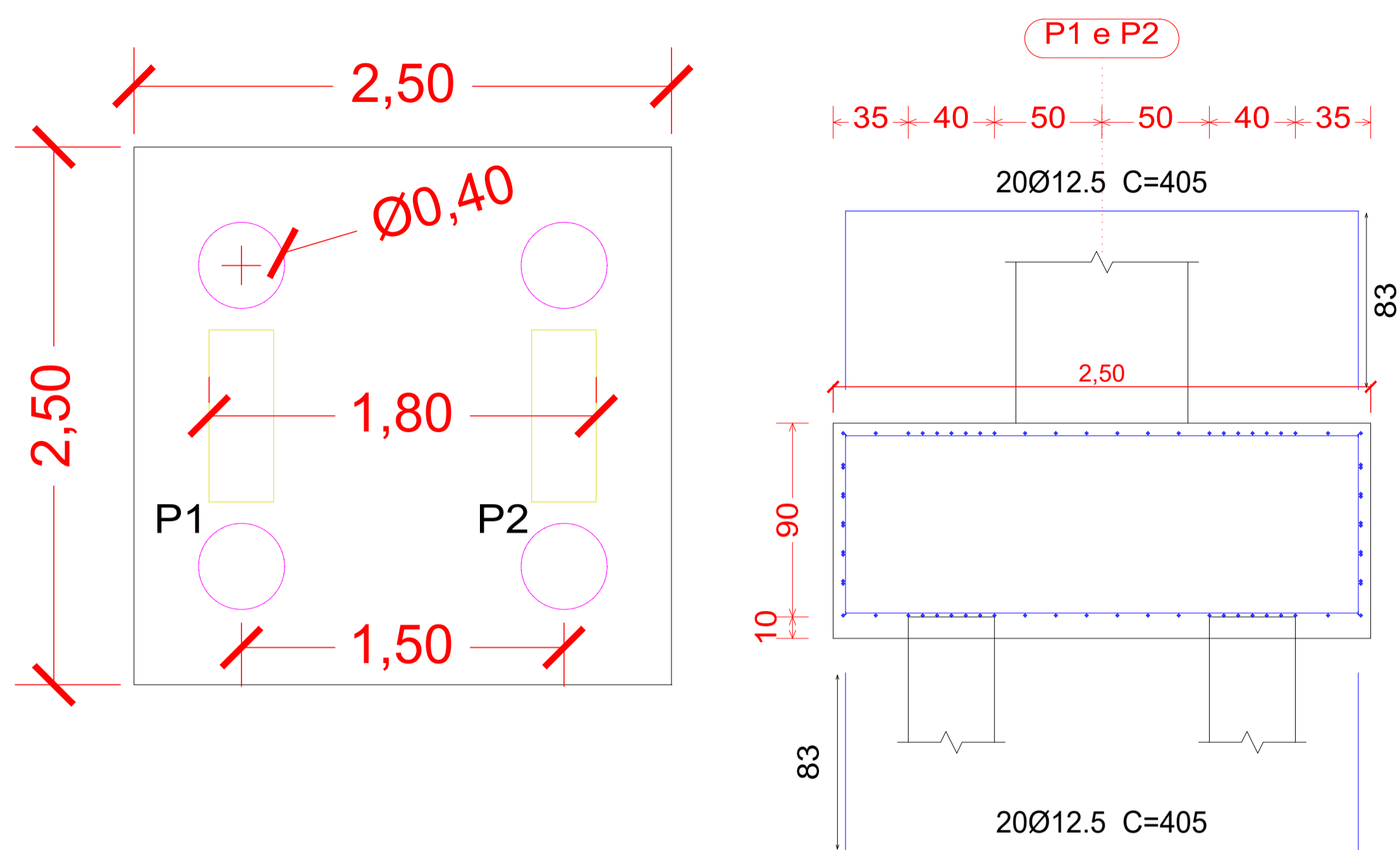
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IND.  
**05**  
Esc. Prancha

# BLOCO 01

P1 e P2



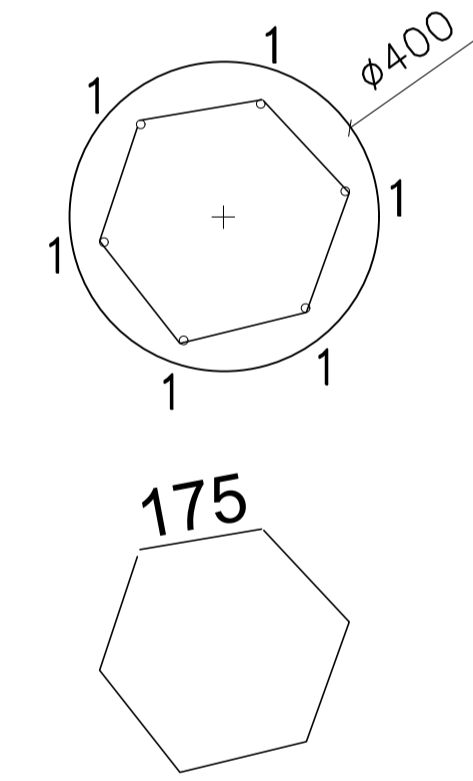
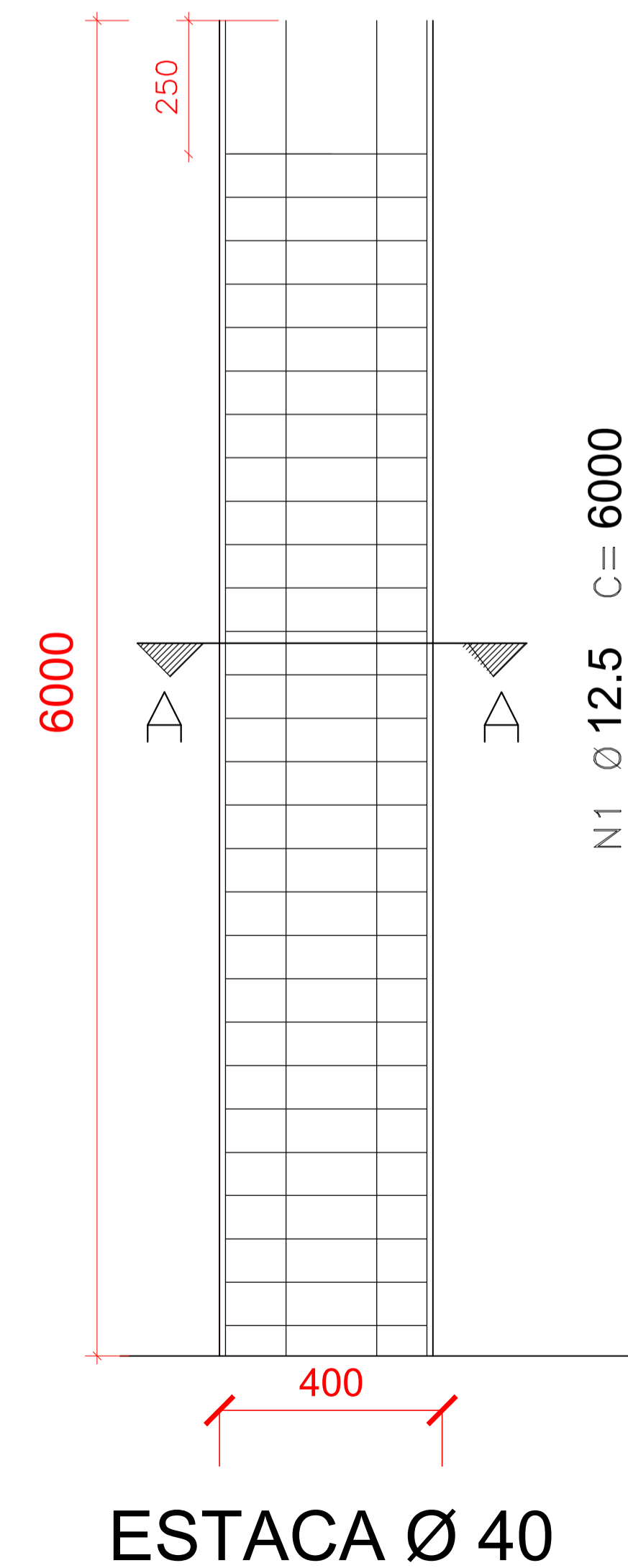
**1** DETALHES  
S/ ESC

## ARMADURA BLOCO 1

| Pos.       | Diam. | Q. | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
|------------|-------|----|-----------|-----------|-----------|------------|------------|------------|------------|
| 1          | Ø12.5 | 40 | 83        | 239       | 83        | 405        | 16200      | 156        |            |
| 2          | Ø12.5 | 24 | 85        | 240       | 13        | 678        | 16272      | 157        |            |
| 3          | Ø12.5 | 10 |           | 479       | 238       | 717        | 7170       | 69         |            |
| Total+10%: |       |    |           |           |           |            |            | 421        |            |
| Ø12.5:     |       |    |           |           |           |            |            | 421        | 0.0        |
| Total:     |       |    |           |           |           |            |            | 421        | 0.0        |

## ARMADURA ESTACAS 1, 2, 3 E 4

| Pos.             | Diam. | Q. | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
|------------------|-------|----|-----------|-----------|-----------|------------|------------|------------|------------|
| 1                | Ø12.5 | 6  |           | 600       |           | 600        | 3600       | 34.1       |            |
| 2                | Ø6.3  | 30 |           | 105       | 15        | 120        | 3600       | 8.82       |            |
| Total+10%:       |       |    |           |           |           |            |            | 47.22      |            |
| Total: 4 ESTACAS |       |    |           |           |           |            |            | 188.88     |            |



30 N2 Ø 6.3 C/10 C= 120

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

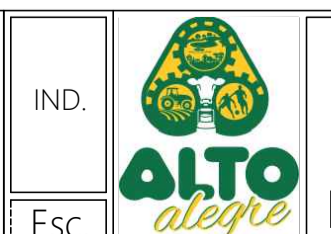
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Requerente  
Município de Alto Alegre

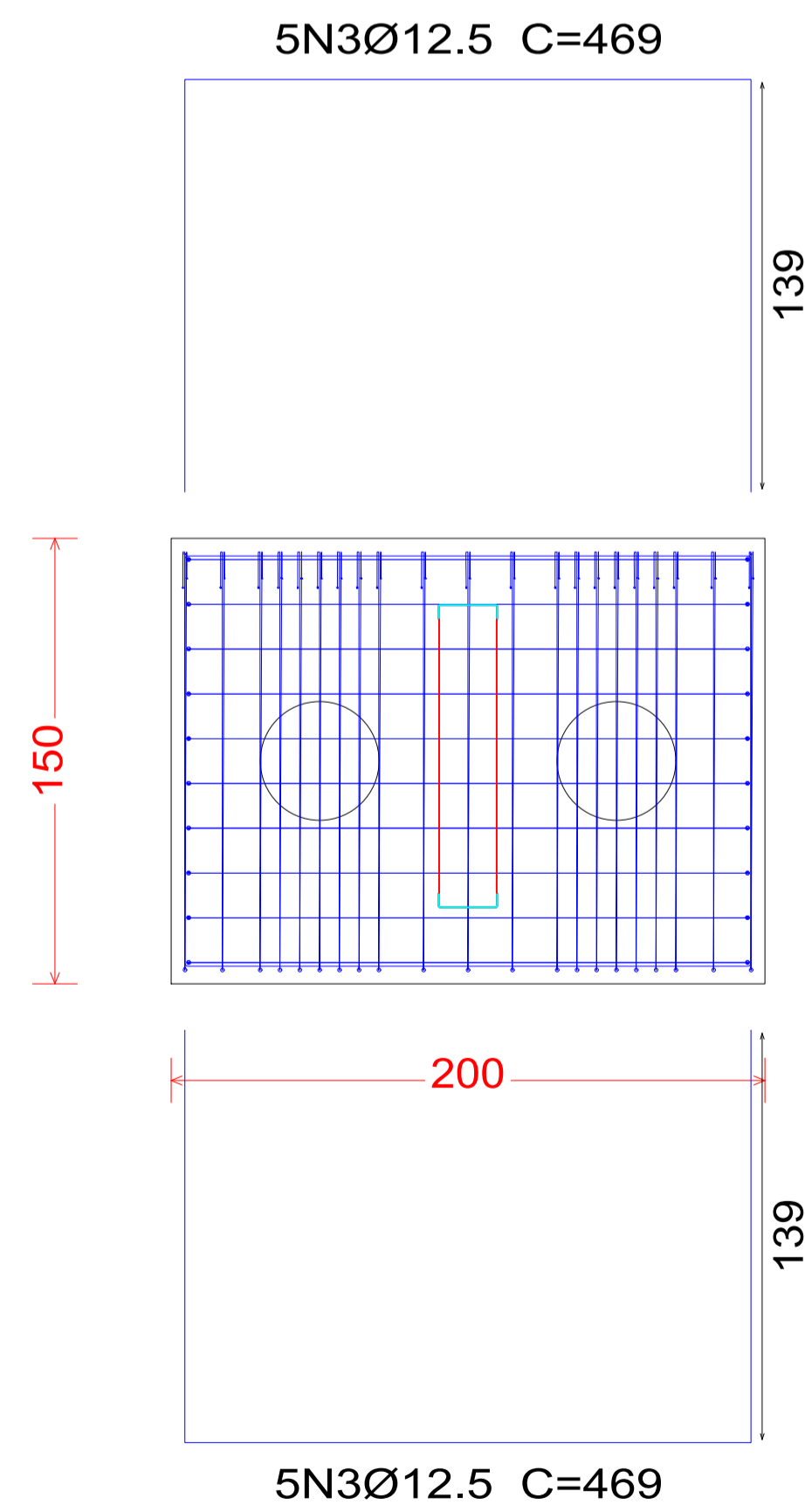
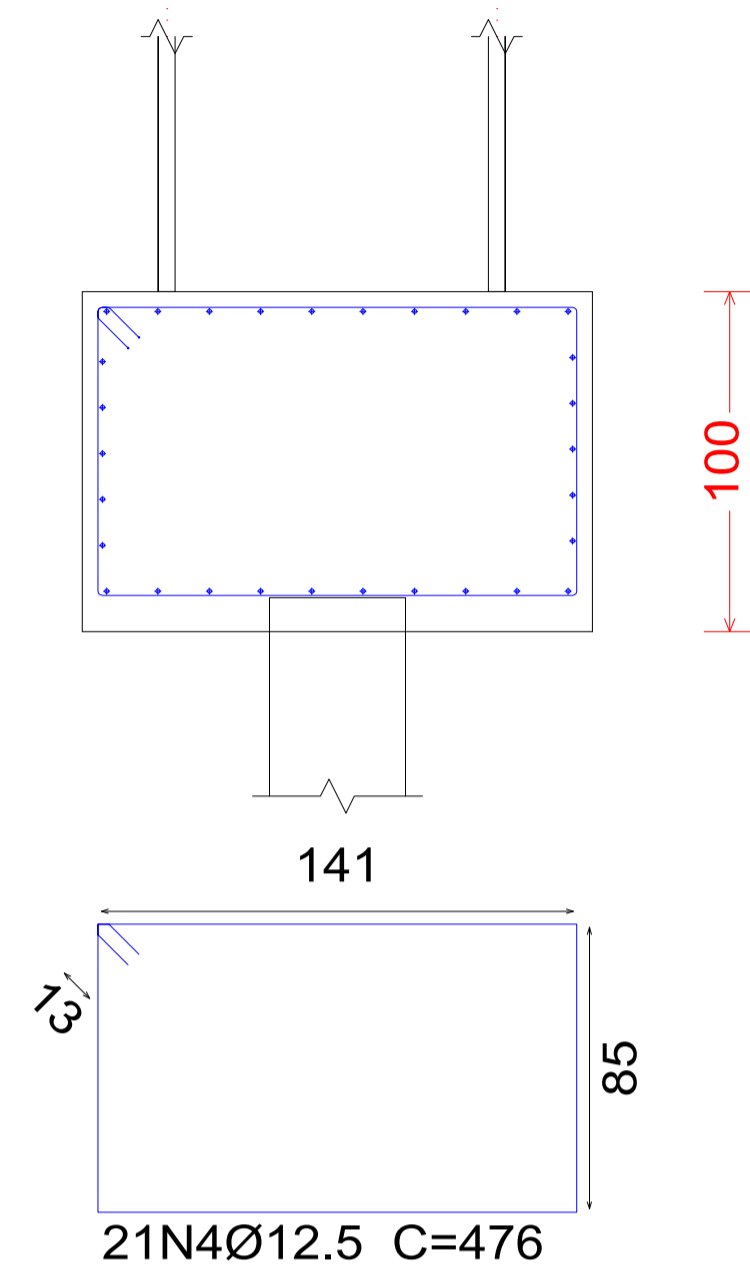
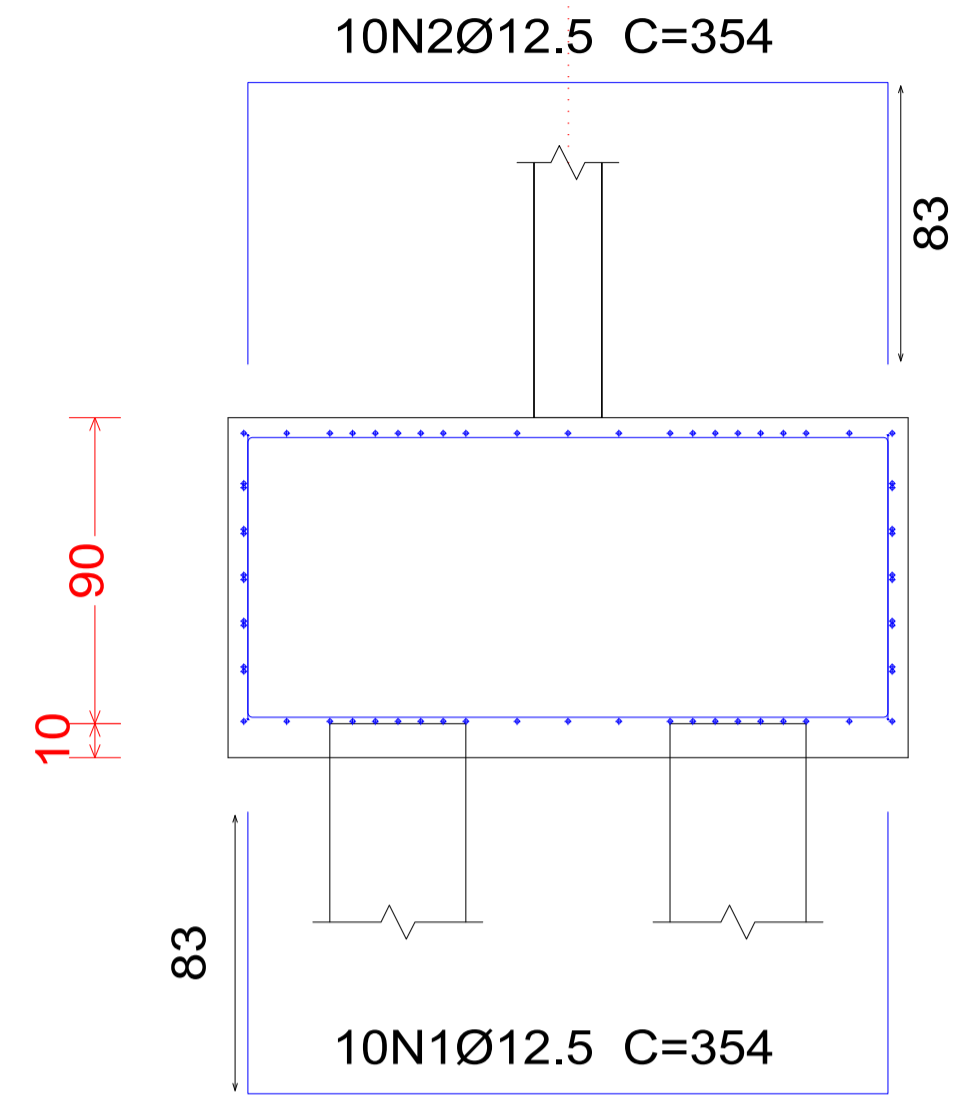


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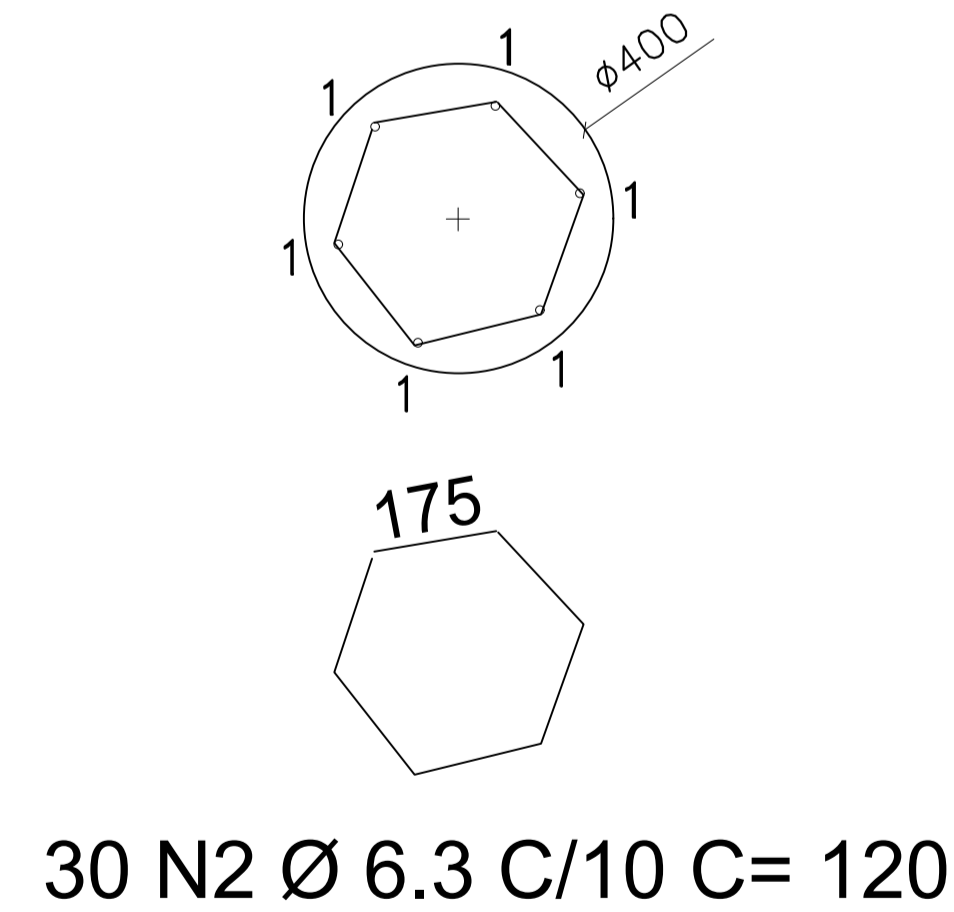
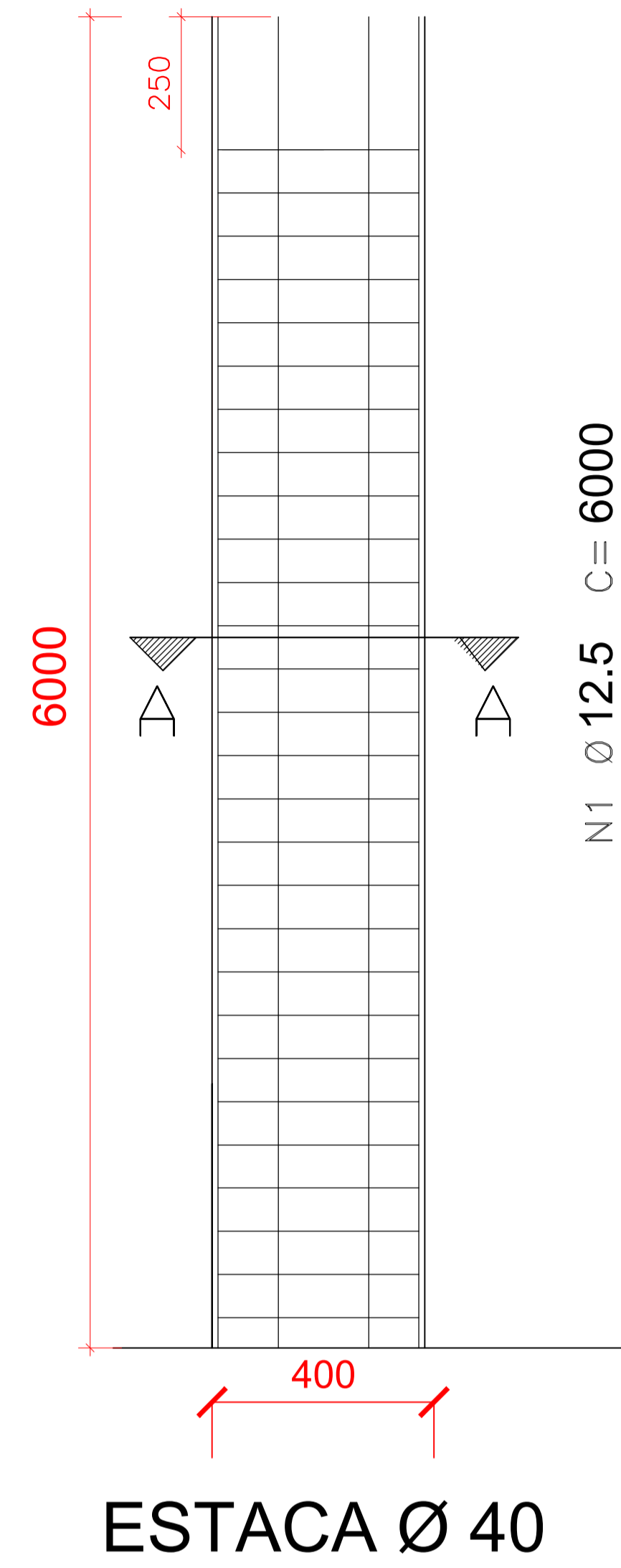
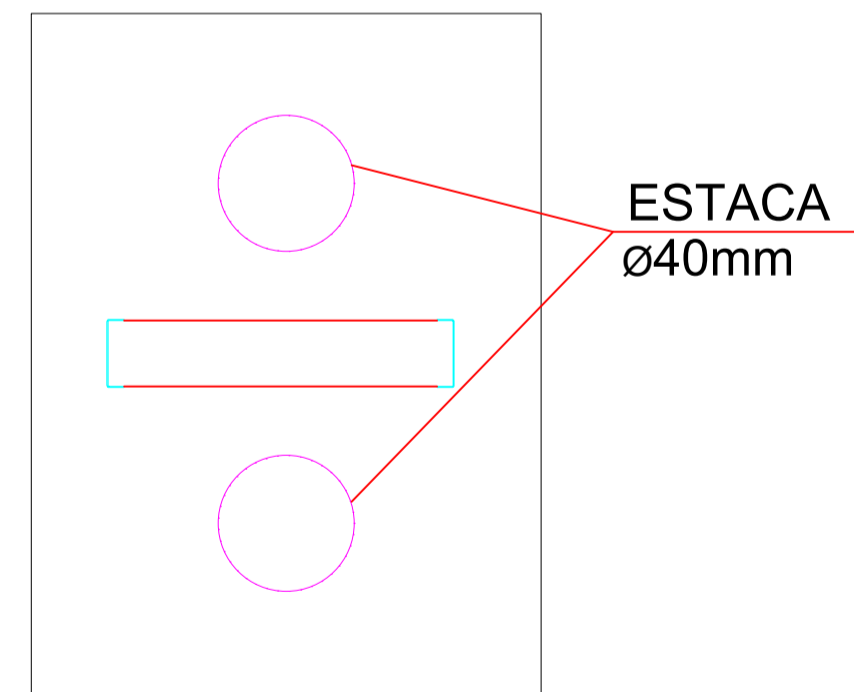


IND.  
06  
Esc. Prancha

# BLOCO 02



200 x 150 x 100



| ARMADURA BLOCO 2 |       |    |           |           |           |            |            |            |            |
|------------------|-------|----|-----------|-----------|-----------|------------|------------|------------|------------|
| Pos.             | Diam. | Q. | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
| 1                | Ø12.5 | 10 | 83        | 188       | 83        | 354        | 3540       | 34.1       |            |
| 2                | Ø12.5 | 10 | 83        | 188       | 83        | 354        | 3540       | 34.1       |            |
| 3                | Ø12.5 | 10 |           | 469       |           | 469        | 4690       | 45.2       |            |
| 4                | Ø12.5 | 21 |           | 476       |           | 476        | 9996       | 96.3       |            |
| Total+10%:       |       |    |           |           |           |            | 230.7      |            |            |
| Ø12.5:           |       |    |           |           |           |            | 230.7      | 0.0        |            |
| Total:           |       |    |           |           |           |            | 230.7      | 0.0        |            |

| ARMADURA ESTACAS 5 E 6 |       |    |           |           |           |            |            |            |            |
|------------------------|-------|----|-----------|-----------|-----------|------------|------------|------------|------------|
| Pos.                   | Diam. | Q. | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
| 1                      | Ø12.5 | 6  |           | 600       |           | 600        | 3600       | 34.1       |            |
| 2                      | Ø6.3  | 30 |           | 105       | 15        | 120        | 3600       | 8.82       |            |
| Total+10%:             |       |    |           |           |           |            | 47.22      |            |            |
| Total: 2 ESTACAS       |       |    |           |           |           |            | 94.44      |            |            |



**1** DETALHES  
S/ ESC

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

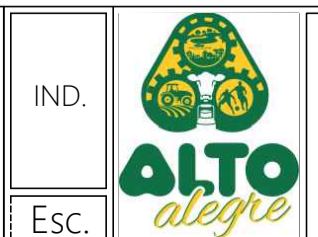
PROJETO ESTRUTURAL

Responsável Técnico  
Calebe Pedrosa Horbach - CREA/RS 243.486

Requerente  
Município de Alto Alegre

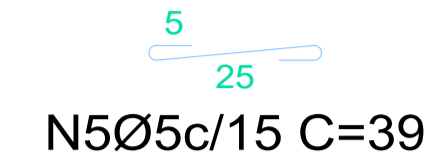
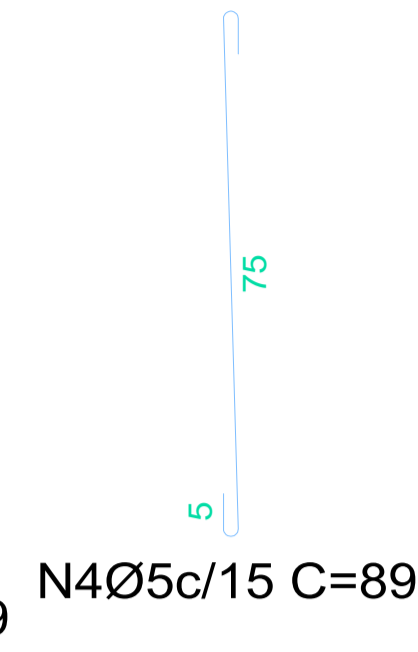
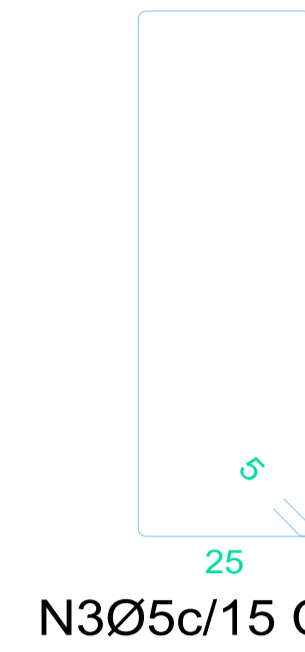
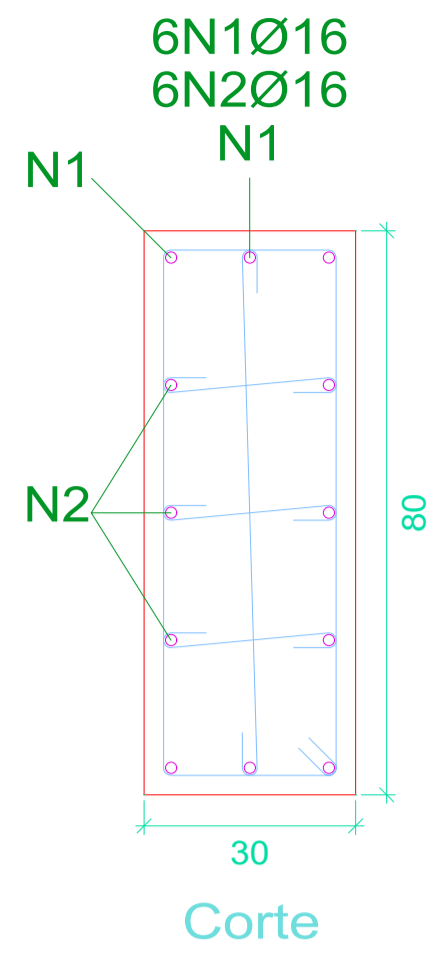
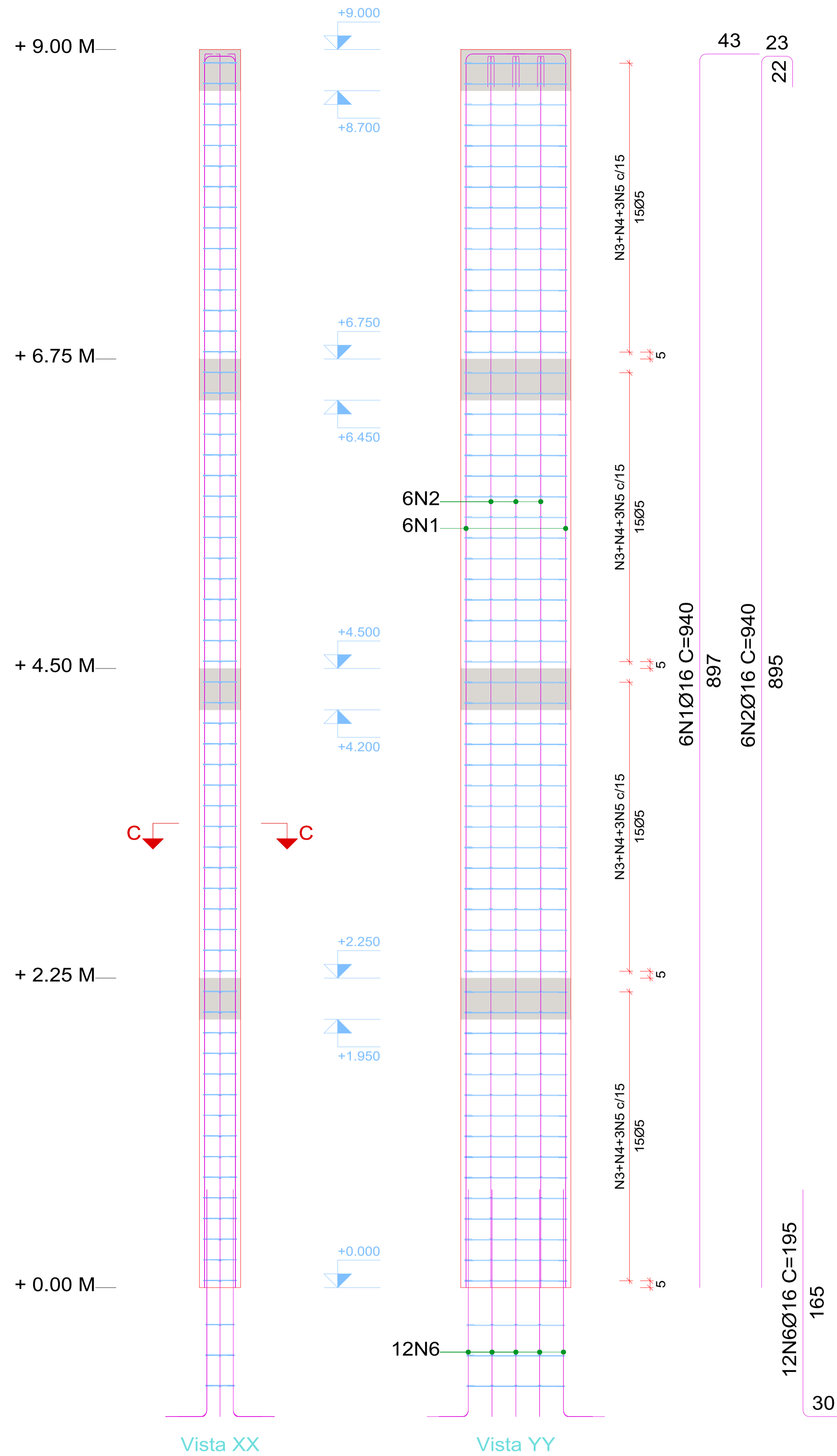


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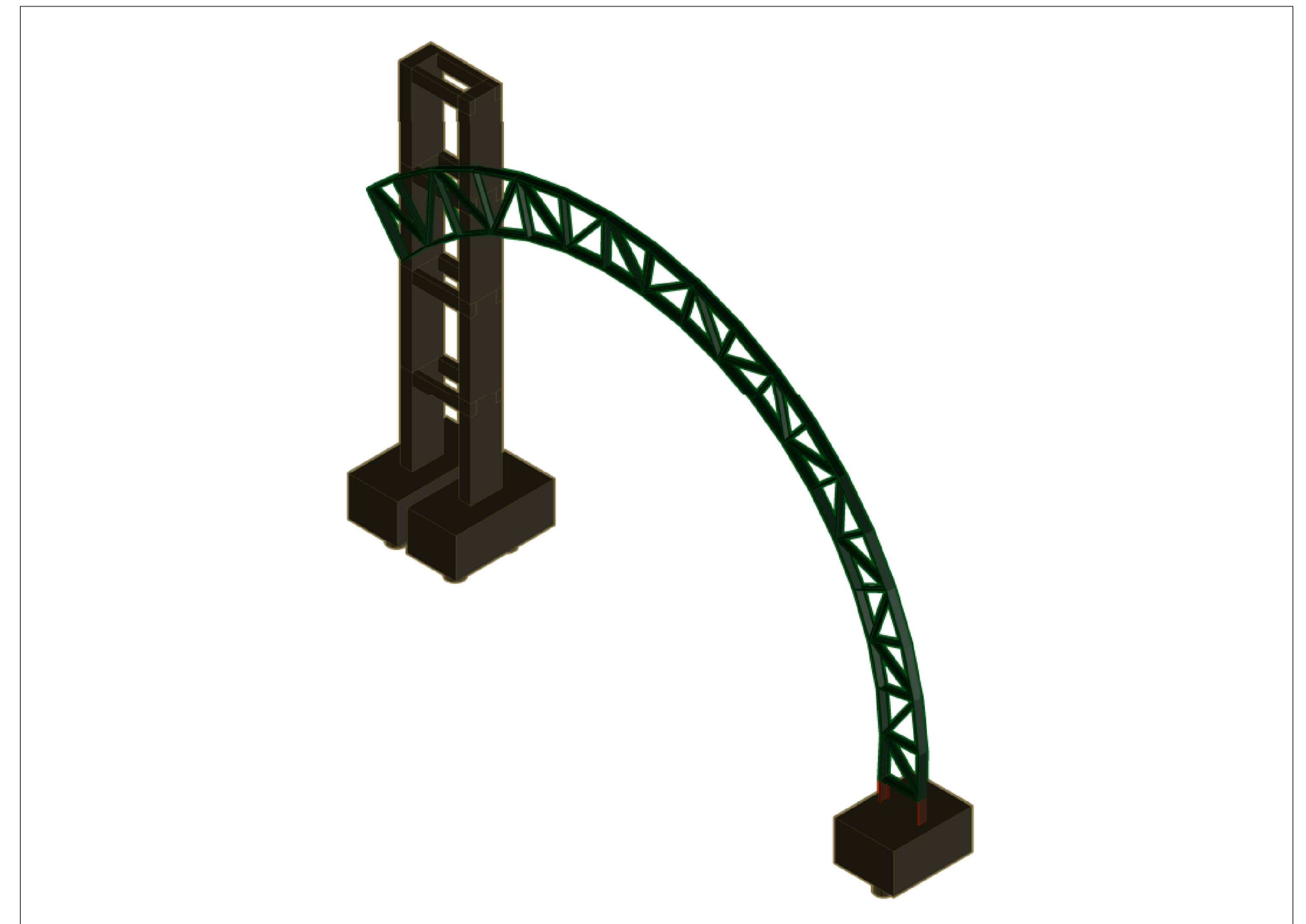


**07**  
Prancha

P1=P2



| Elemento   | Pos. | Diam. | Q.  | Esquema (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
|------------|------|-------|-----|--------------|------------|------------|------------|------------|
| P1=P2      | 1    | Ø16   | 6   | 897          | 940        | 5640       | 89.0       |            |
|            | 2    | Ø16   | 6   | 895          | 940        | 5640       | 89.0       |            |
|            | 3    | Ø5    | 60  | 25           | 209        | 12540      |            | 19.7       |
|            | 4    | Ø5    | 60  | 5            | 89         | 5340       |            | 8.4        |
|            | 5    | Ø5    | 180 | 5            | 39         | 7020       |            | 11.0       |
|            | 6    | Ø16   | 12  | 30           | 195        | 2340       | 36.9       |            |
|            | 7    | Ø5    | 3   | 22           | 197        | 591        |            | 0.9        |
|            | 8    | Ø5    | 3   | 5            | 86         | 258        |            | 0.4        |
|            | 9    | Ø5    | 9   | 22           | 36         | 324        |            | 0.5        |
| Total+10%: |      |       |     |              |            |            | 236.4      | 45.0       |
| (x2):      |      |       |     |              |            |            | 472.8      | 90.0       |
|            |      |       |     |              |            |            | Ø5:        | 0.0        |
|            |      |       |     |              |            |            | Ø16:       | 472.8      |
|            |      |       |     |              |            |            | Total:     | 472.8      |
|            |      |       |     |              |            |            |            | 90.0       |



| Planta     | Dimensão (cm) | Concreto                               |             | Armaduras CA-50 e CA-60 |               |                  | Taxa (kg/m3) |
|------------|---------------|--|-------------|-------------------------|---------------|------------------|--------------|
|            |               | Tipo: C20, em geral Cobrimento: 2.5 cm | Fôrmas (m2) | Longitudinal (kg)       | Estribos (kg) | Total +10 % (kg) |              |
| + 9.00 M   | 30x80         | 1.08                                   | 4.95        | -                       | 9.8           | 10.8             | 9.07         |
| + 6.75 M   |               | 1.08                                   | 4.95        | -                       | 9.8           | 10.8             | 9.07         |
| + 4.50 M   |               | 1.08                                   | 4.95        | -                       | 9.8           | 10.8             | 9.07         |
| + 2.25 M   |               | 1.08                                   | 4.95        | 178.1                   | 9.8           | 206.7            | 173.98       |
| Total (x2) |               | 8.64                                   | 39.60       | 356.1                   | 78.2          | 478.2            | 50.30        |

1 DETALHES S/ ESC

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

PROJETO ESTRUTURAL

Responsável Técnico  
Calebe Pedroso Horbach - CREA/RS 243.486

Requerente  
Município de Alto Alegre



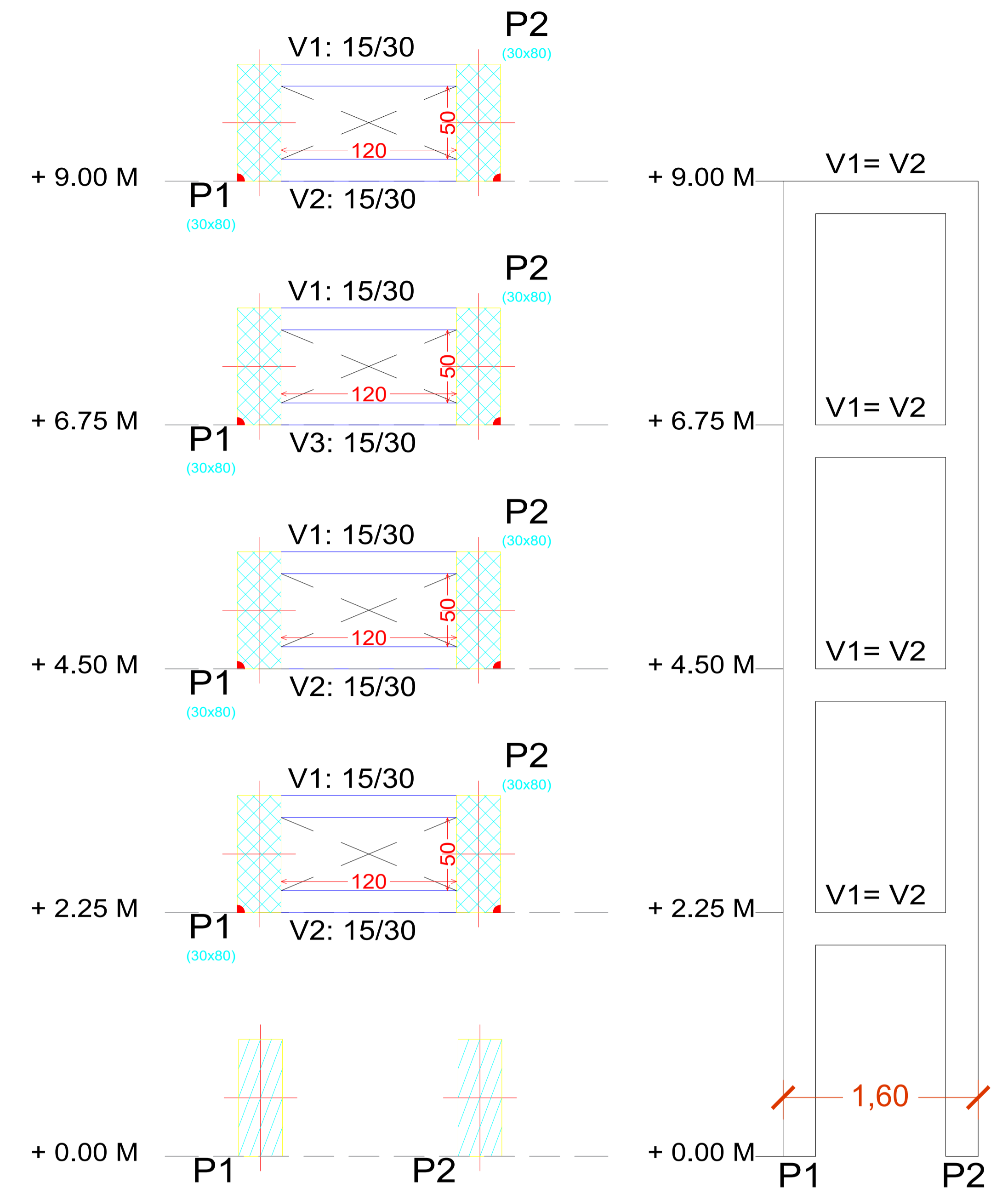
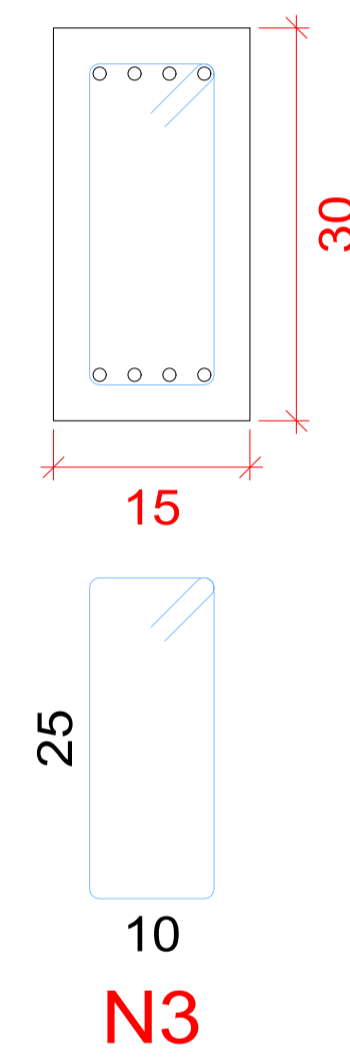
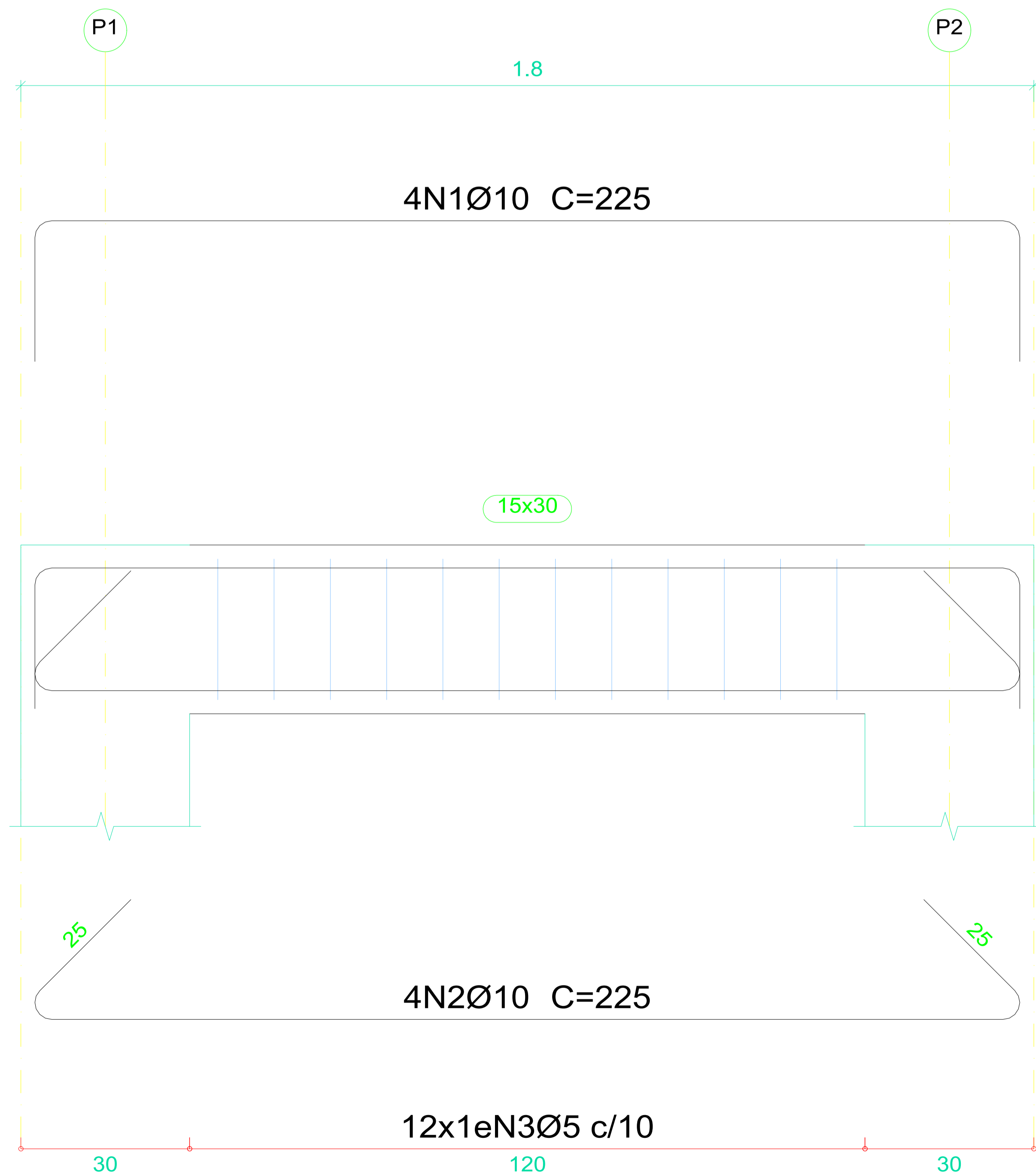
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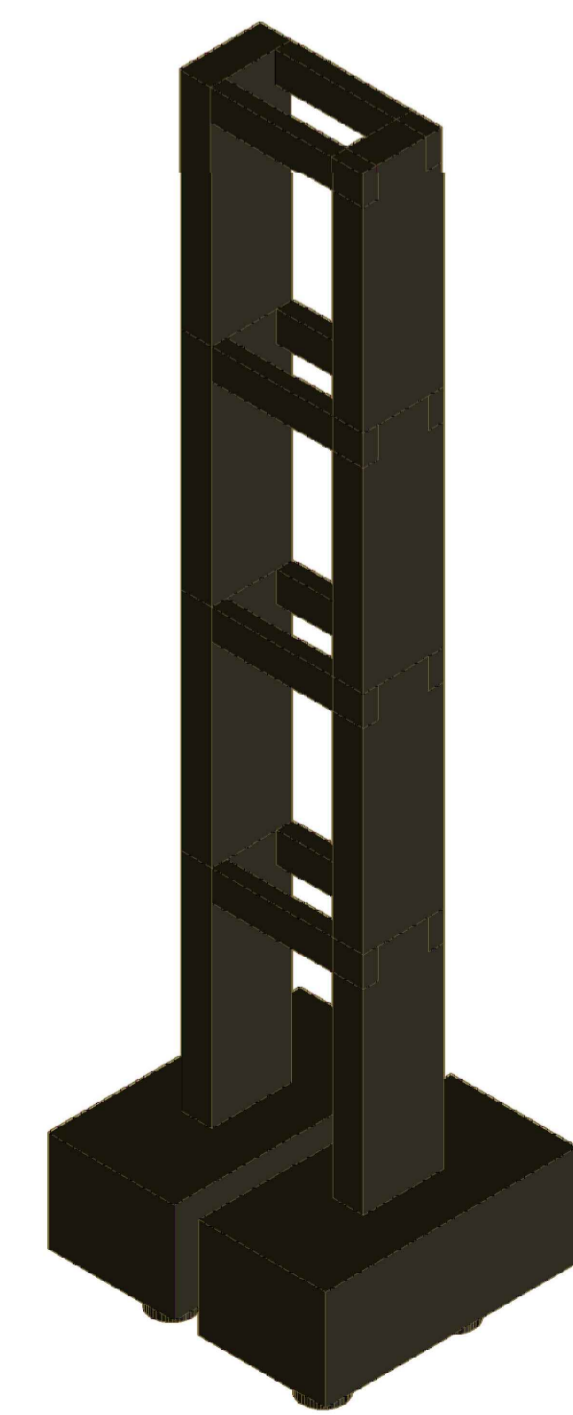
08 Prancha



| Elemento   | Pos. | Diam. | Q. | Esquema (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |  |
|------------|------|-------|----|--------------|------------|------------|------------|------------|--|
| V 1=V 2    | 1    | Ø10   | 4  |              | 225        | 900        | 5.5        |            |  |
|            | 2    | Ø10   | 4  |              | 225        | 900        | 5.5        |            |  |
|            | 3    | Ø5    | 12 |              | 78         | 936        |            | 1.5        |  |
| Total+10%: |      |       |    |              |            |            | 12.1       | 1.7        |  |
| (x2):      |      |       |    |              |            |            | 24.2       | 3.4        |  |
| Ø5:        |      |       |    |              |            |            | 0.0        | 3.4        |  |
| Ø10:       |      |       |    |              |            |            | 24.2       | 0.0        |  |
| Total:     |      |       |    |              |            |            | 24.2       | 3.4        |  |



CORTES VISTA FRONTAL



**1** DETALHES  
S/ ESC

Projeto de Implantação Do Pórtico de Entrada do Município de Alto Alegre / RS

PROJETO ESTRUTURAL

Responsável Técnico: Calebe Pedroso Horbach - CREA/RS 243.486

Requerente: Município de Alto Alegre

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IND. Esc. **09** Prancha