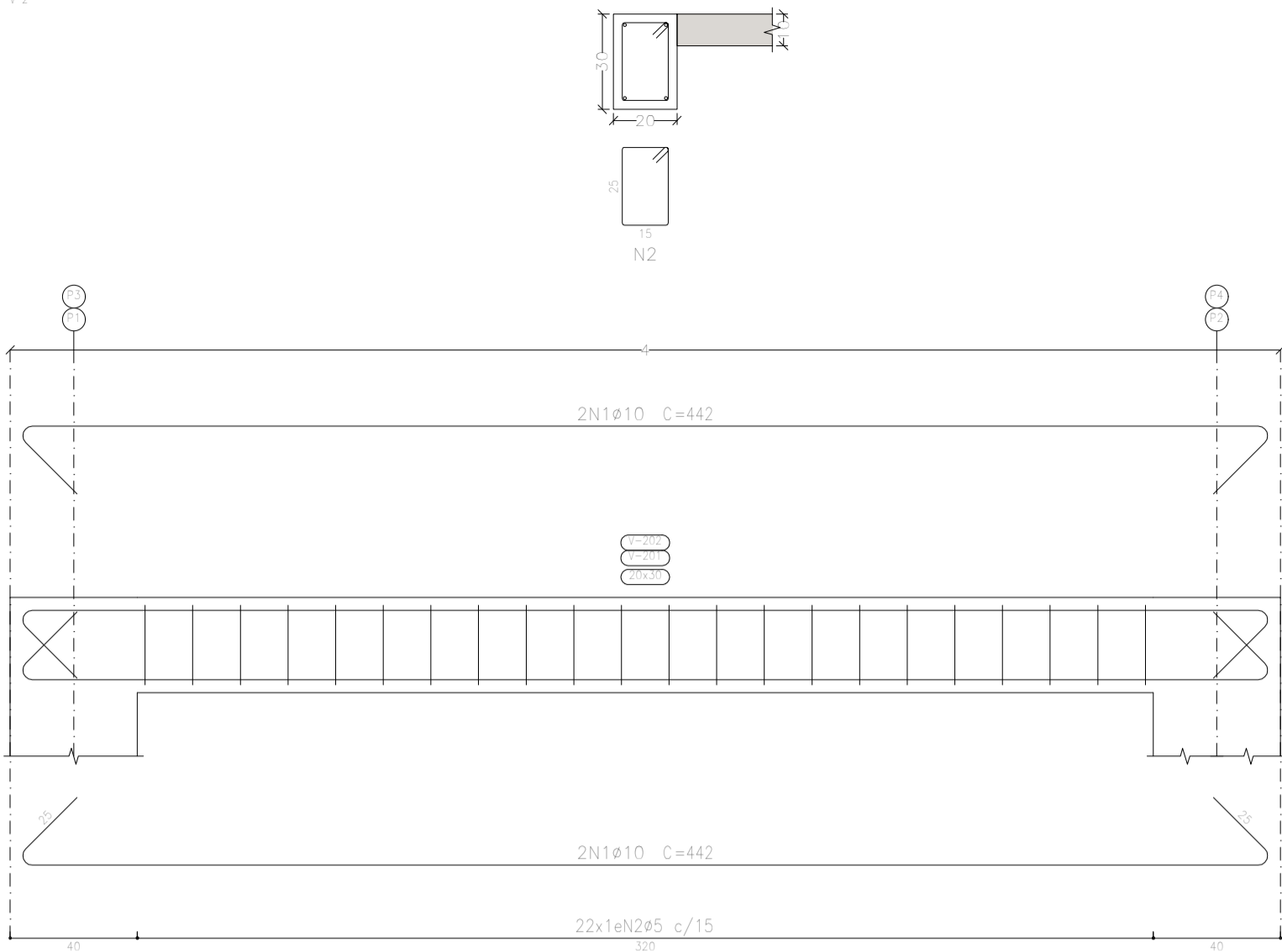
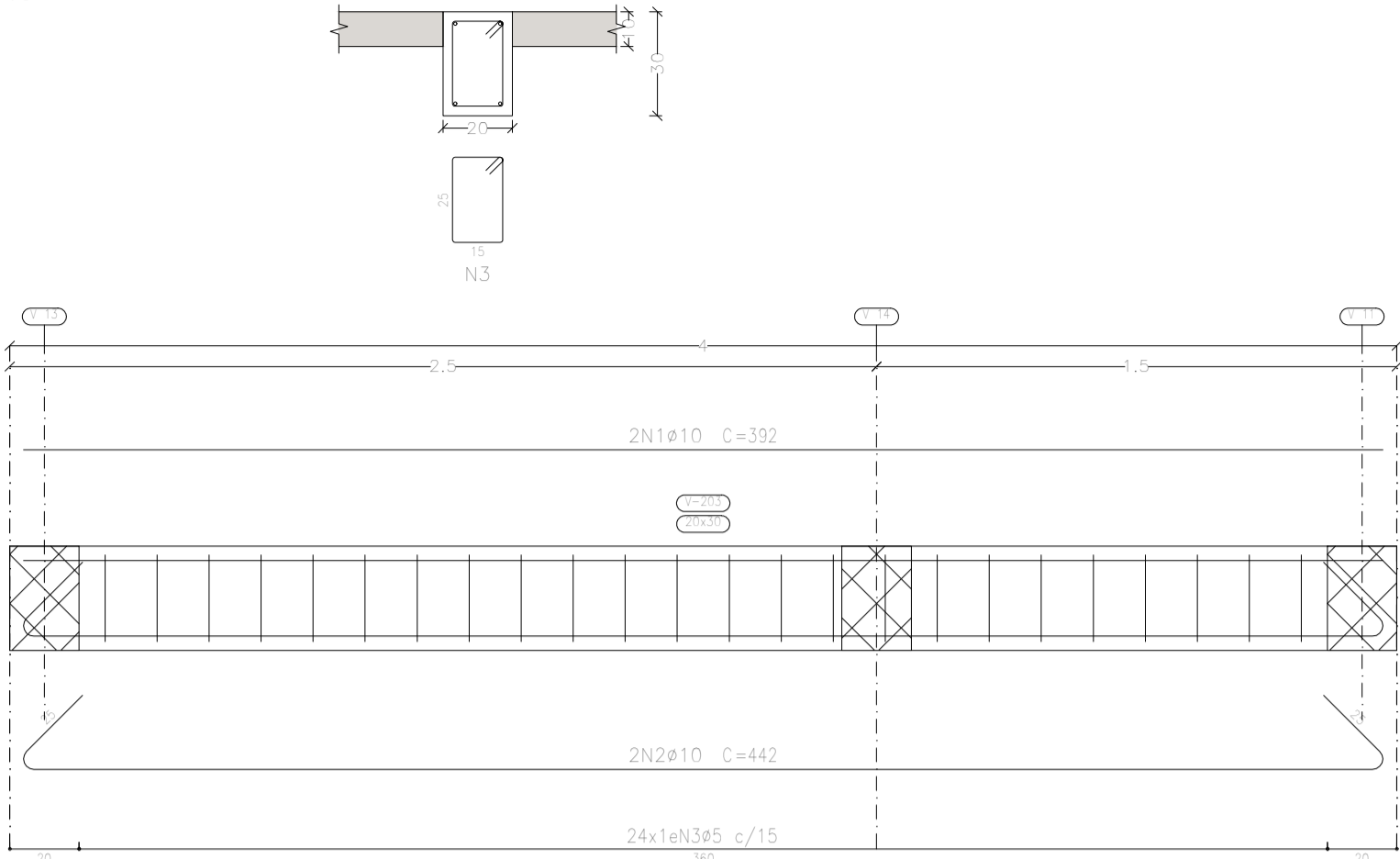


V 2

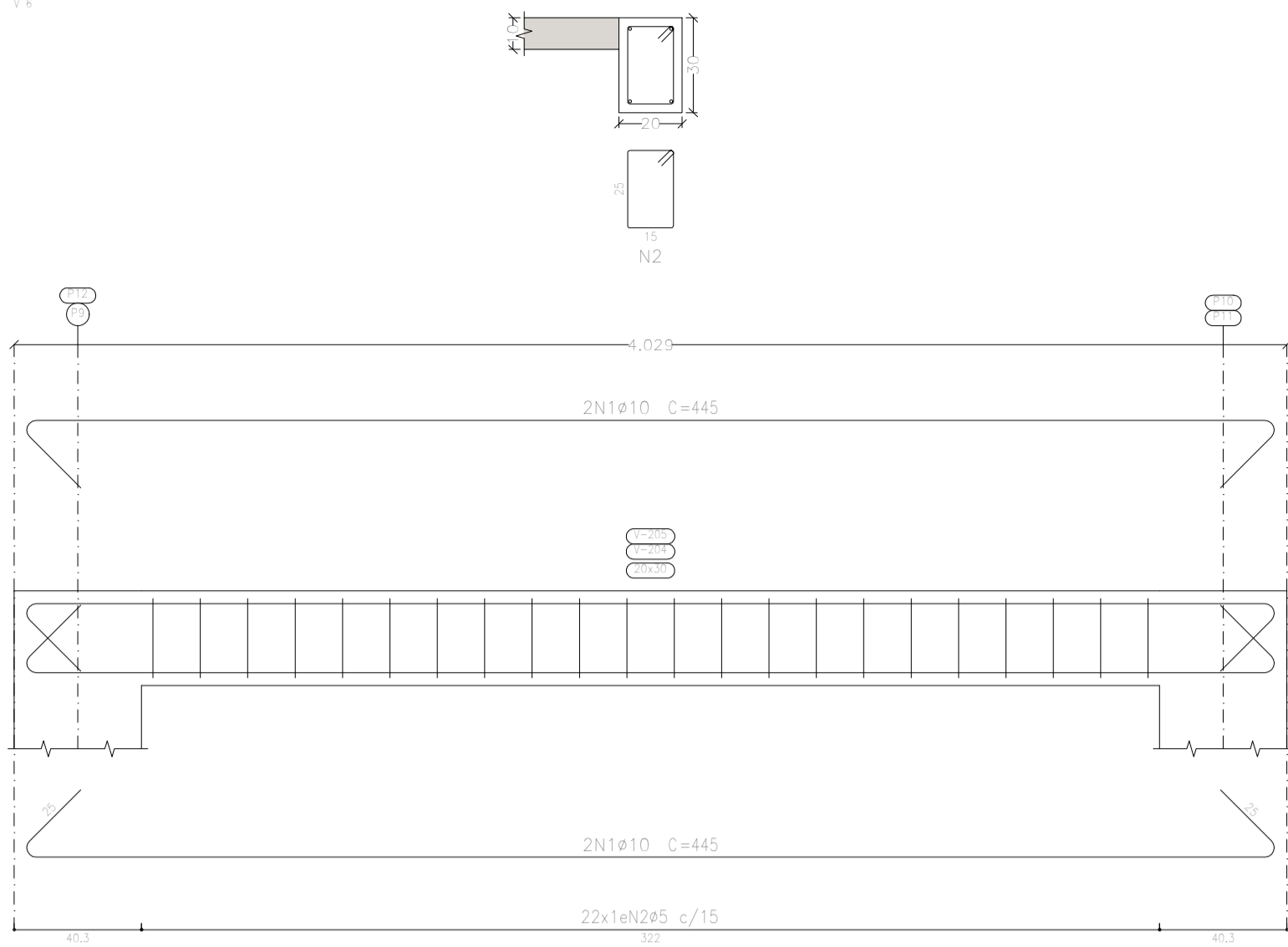


Piso 2  
Desenho de vigas  
Concreto: C25, em geral  
Aço das barras: CA-50 e CA-60  
Aço dos estribos: CA-50 e CA-60  
Escala vigas 1:20  
Escala seções 1:20  
Escala aberturas 1:20

V 3



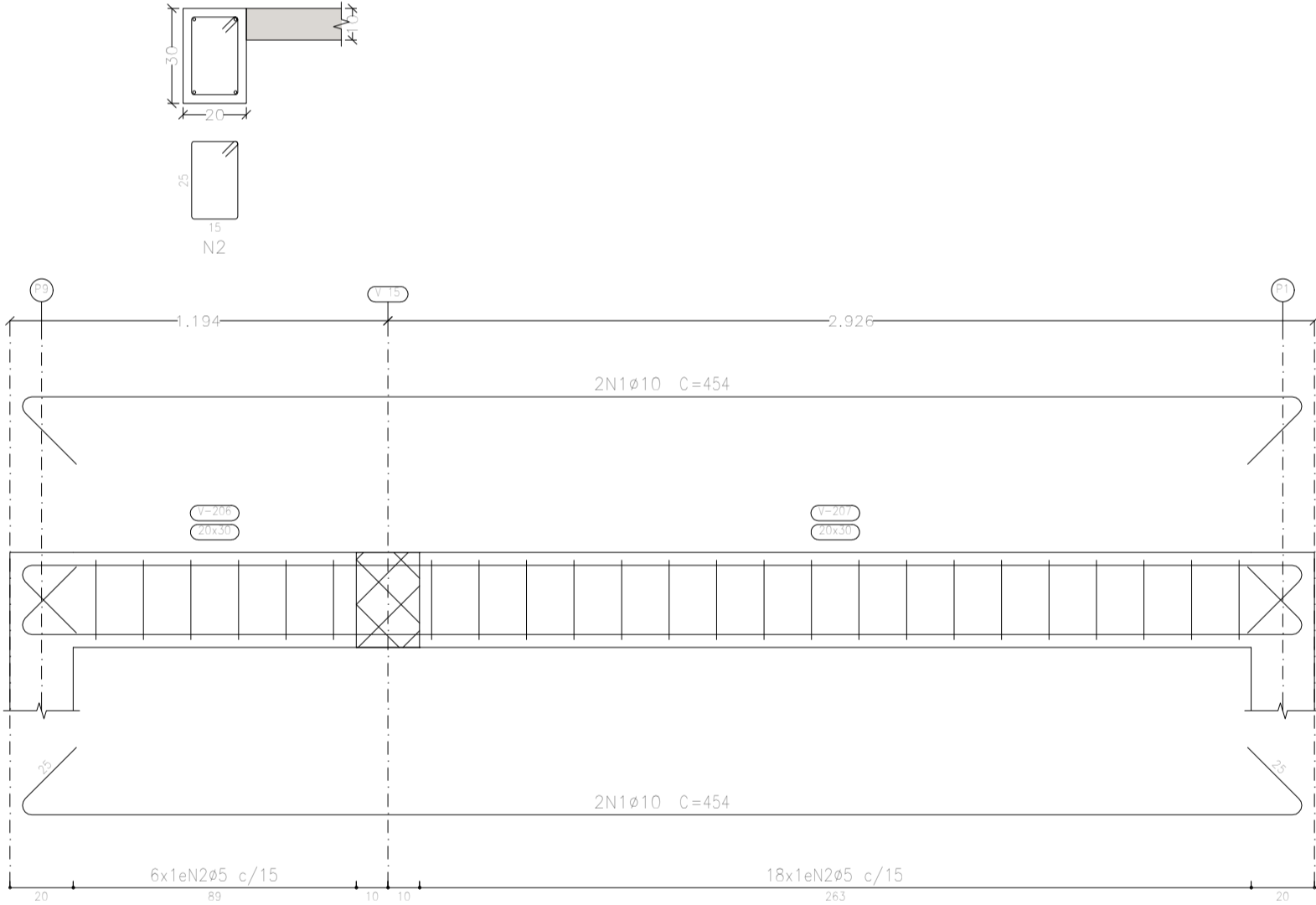
V 5



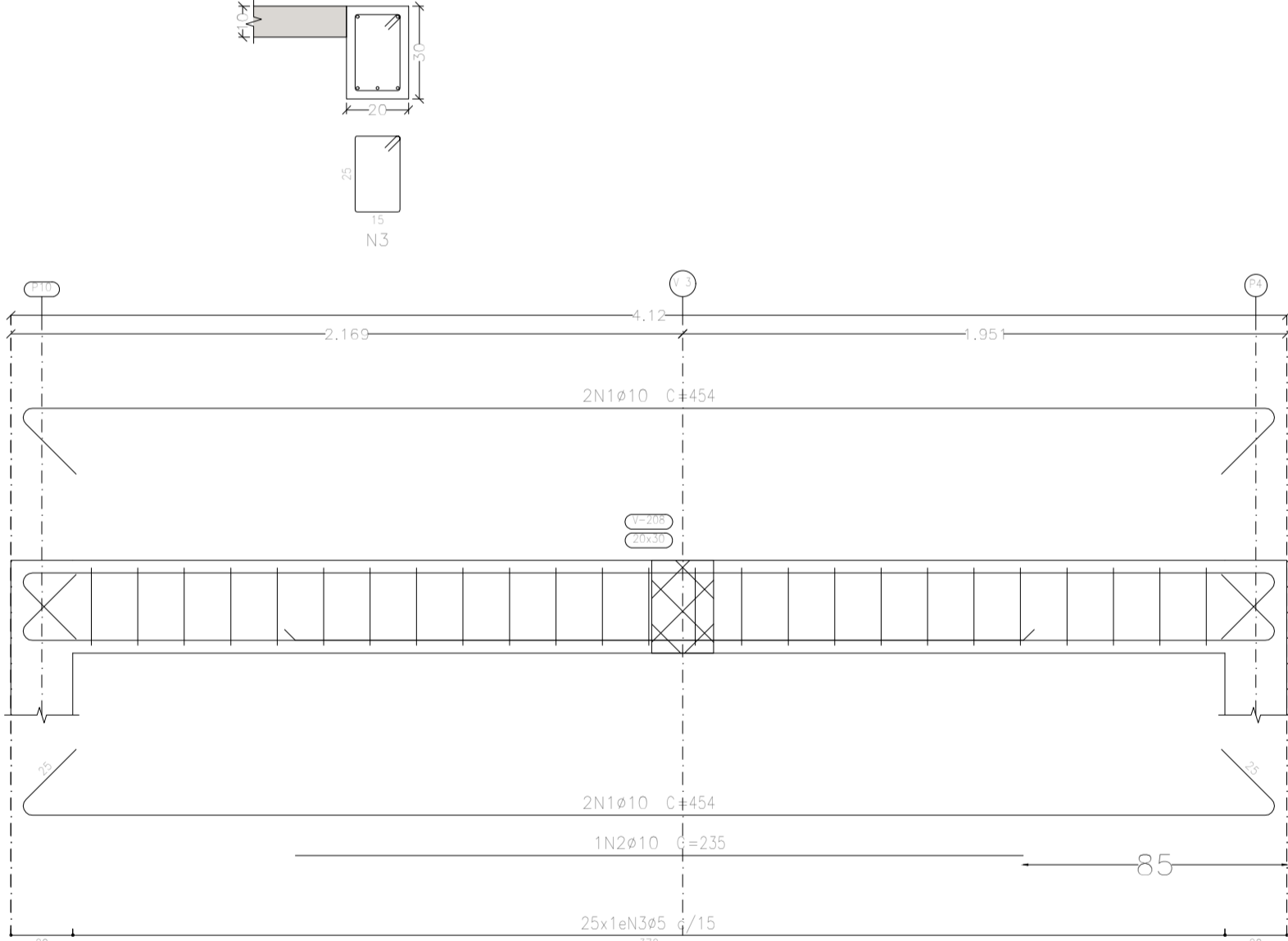
| Resumo Aço       | Comp. total | Peso+10% | Total |
|------------------|-------------|----------|-------|
| Desenho de vigas | (m)         | (kg)     |       |
| CA-50 ø10        | 196,2       | 133      | 133   |
| CA-60 ø5         | 221,8       | 38       | 38    |
| Total            |             |          | 171   |

| Elemento | Pos. | Diam. | Q. | Esquema (cm) | Comp. (cm)     | Total (cm) | CA-50 (kg) | CA-60 (kg) |
|----------|------|-------|----|--------------|----------------|------------|------------|------------|
| V 1+V 2  | 1    | ø10   | 4  |              | 442            | 1768       | 10,9       |            |
|          | 2    | ø5    | 22 |              | 88             | 1936       |            | 3,0        |
|          |      |       |    |              | Total+10% (x2) |            | 12,0       | 3,3        |
| V 3      | 1    | ø10   | 2  |              | 392            | 784        | 4,8        |            |
|          | 2    | ø10   | 2  |              | 442            | 884        | 5,4        |            |
|          | 3    | ø5    | 24 |              | 88             | 2112       |            | 3,3        |
| V 5+V 6  | 1    | ø10   | 4  |              | 445            | 1780       | 11,0       |            |
|          | 2    | ø5    | 22 |              | 88             | 1936       |            | 3,0        |
|          |      |       |    |              | Total+10% (x2) |            | 12,1       | 3,3        |
| V 7      | 1    | ø10   | 4  |              | 454            | 1816       | 11,2       |            |
|          | 2    | ø5    | 24 |              | 88             | 2112       |            | 3,3        |
|          |      |       |    |              | Total+10%      |            | 12,3       | 3,6        |
| V 11     | 1    | ø10   | 4  |              | 454            | 1816       | 11,2       |            |
|          | 2    | ø10   | 1  |              | 235            | 235        | 1,4        |            |
|          | 3    | ø5    | 25 |              | 88             | 2200       |            | 3,5        |
| V 13     | 1    | ø10   | 4  |              | 497            | 1988       | 12,3       |            |
|          | 2    | ø10   | 1  |              | 270            | 270        | 1,7        |            |
|          | 3    | ø5    | 28 |              | 88             | 2464       |            | 3,9        |
| V 14     | 1    | ø10   | 2  |              | 177            | 354        | 2,2        |            |
|          | 2    | ø10   | 2  |              | 227            | 454        | 2,8        |            |
|          | 3    | ø5    | 11 |              | 88             | 968        |            | 1,5        |
| V 15     | 1    | ø10   | 2  |              | 392            | 784        | 4,8        |            |
|          | 2    | ø10   | 2  |              | 442            | 884        | 5,4        |            |
|          | 3    | ø5    | 24 |              | 88             | 2112       |            | 3,3        |
| V 16     | 1    | ø10   | 4  |              | 497            | 1988       | 12,3       |            |
|          | 2    | ø10   | 1  |              | 270            | 270        | 1,7        |            |
|          | 3    | ø5    | 28 |              | 88             | 2464       |            | 3,9        |
|          |      |       |    | Total+10%    |                | 15,4       | 4,3        |            |
|          |      |       |    |              |                | ø5:        | 0,0        | 38,2       |
|          |      |       |    |              |                | ø10:       | 133,1      | 0,0        |
|          |      |       |    |              |                | Total:     | 133,1      | 38,2       |

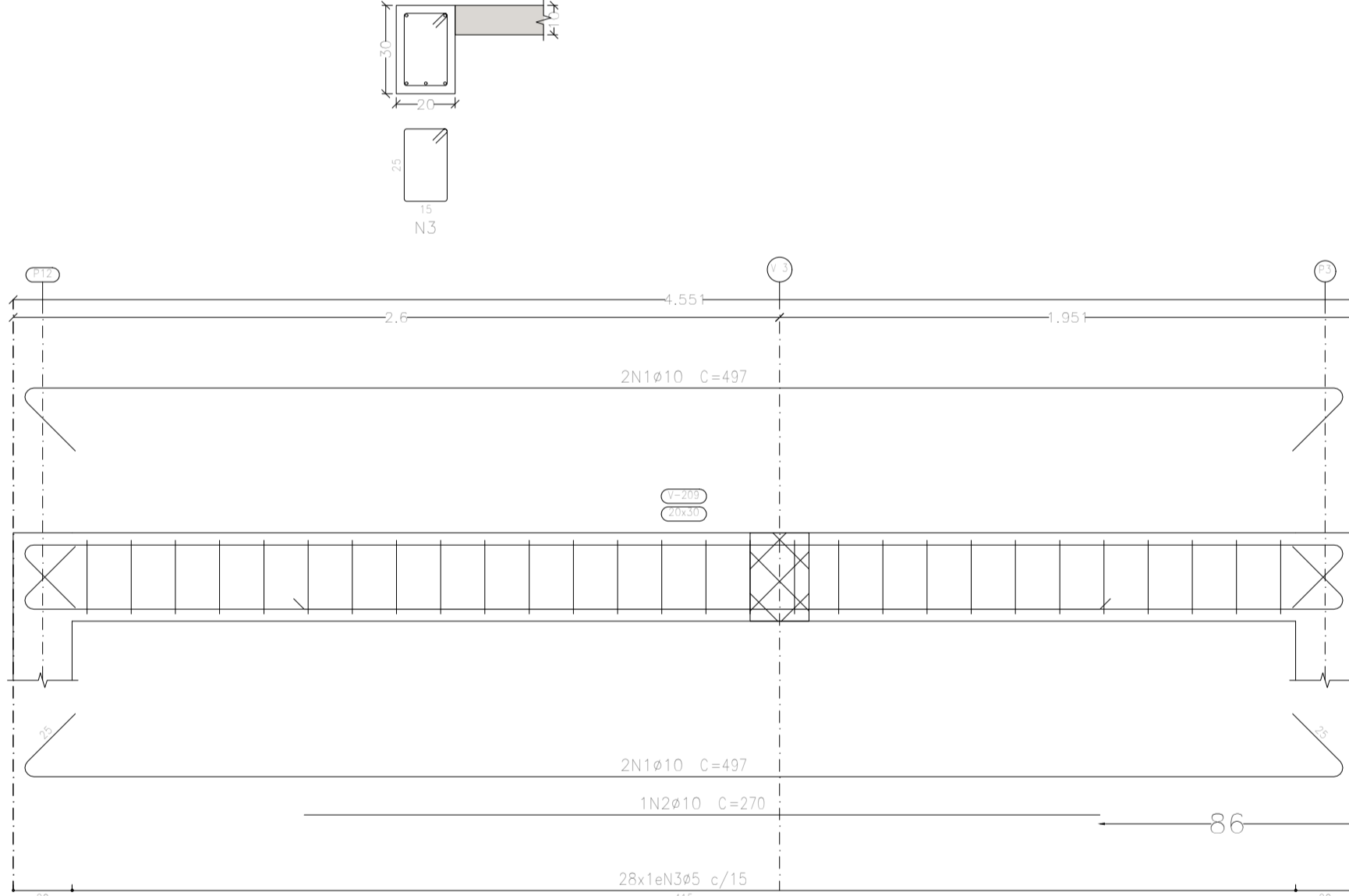
V 7



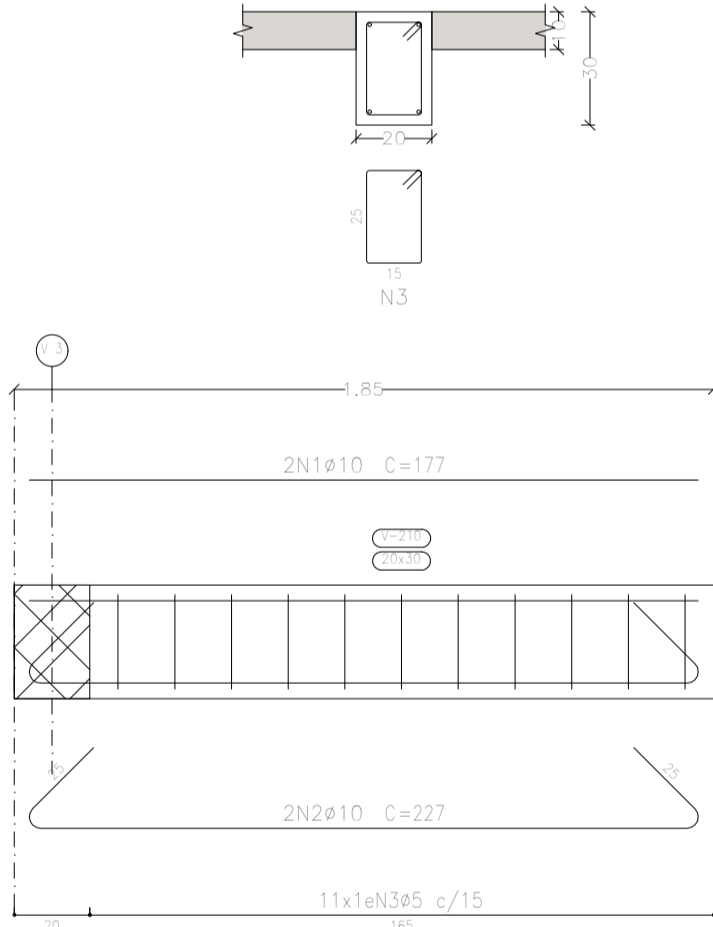
V 11



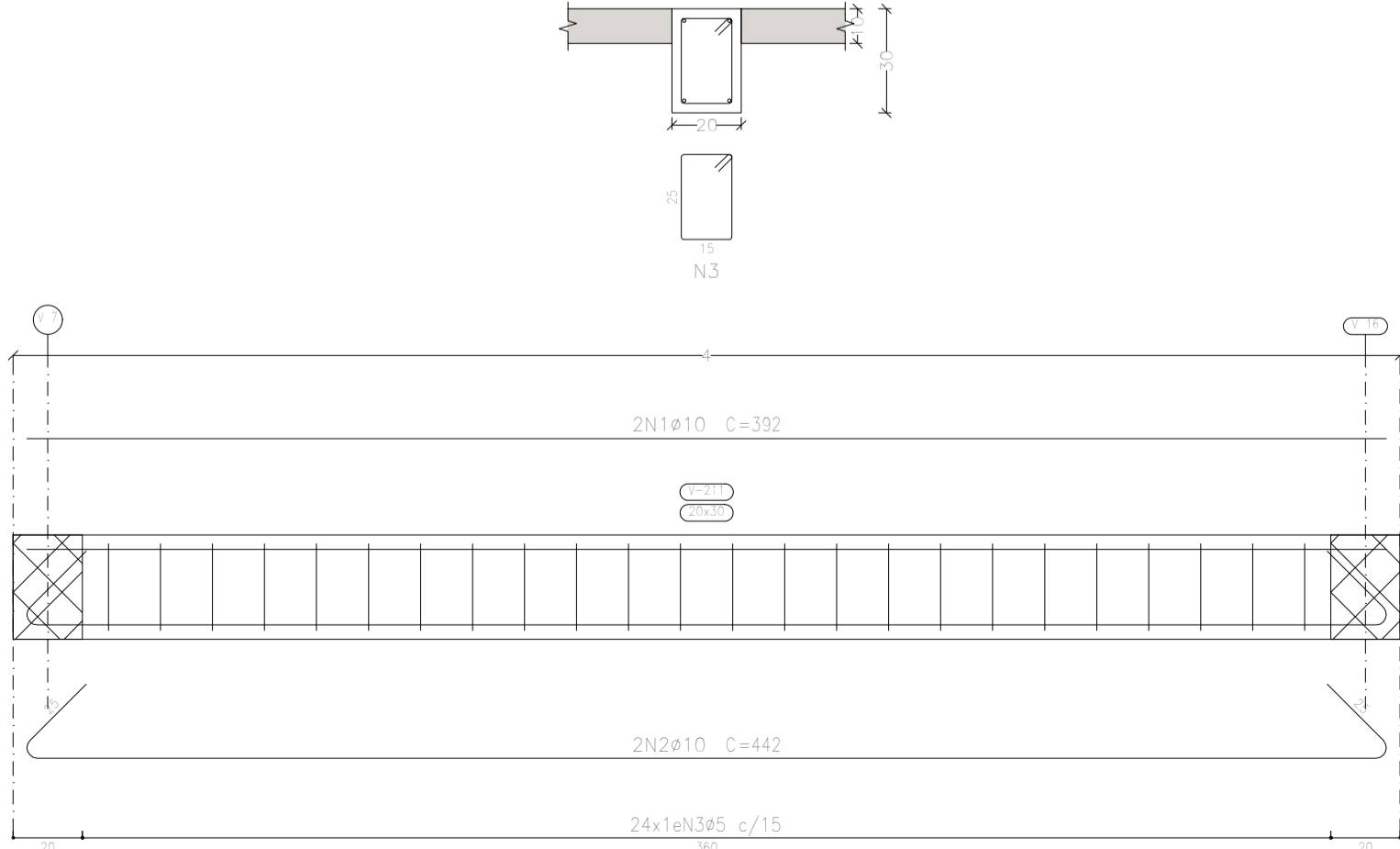
V 15



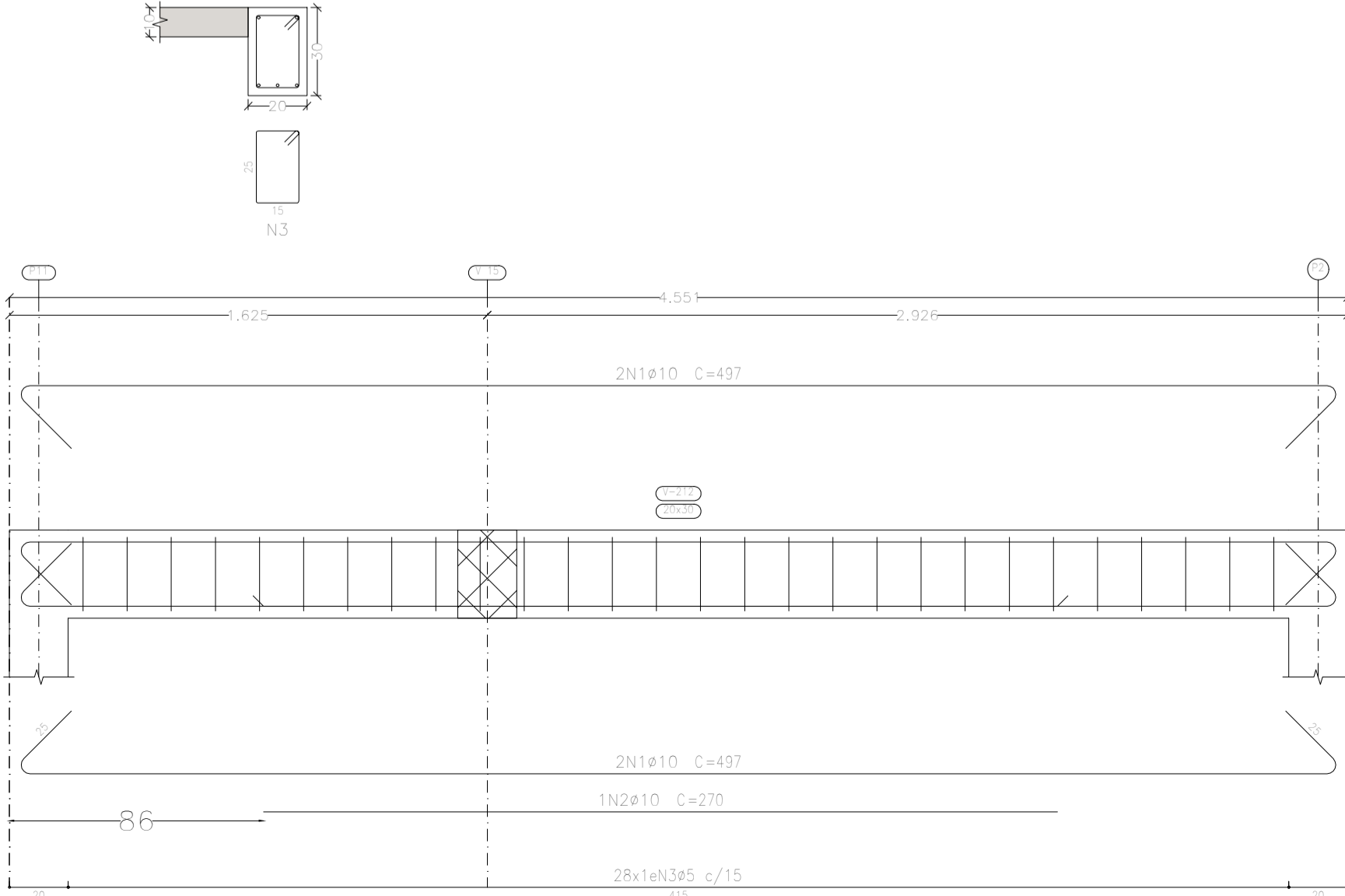
V 14



V 15



V 16



|  |                     |
|--|---------------------|
| Portal Expo  | Data:               |
| Local:   | 10/05/2024          |
| Promotor:  | Número de desenho:  |
| Portal do Parque de Exposições O. Reck                                       | Escala:             |
| Eduardo Rompanelli Tosetto<br>Engenheiro Civil<br>Número do CREA: 1220503037 | Data:<br>10/05/2024 |