

Relação do aço das vigas de cobertura

|     |     |     |
|-----|-----|-----|
| V36 | V37 | V38 |
| V39 | V40 | V41 |
| V42 | V43 | V44 |
| V45 | V46 | V47 |
| V48 | V49 | V50 |
| V51 | V52 | V53 |
| V54 | V55 | V56 |
| V57 | V58 |     |

| AÇO  | N  | D    | AM  | QUANT | UNIT  | C    | TOTAL |
|------|----|------|-----|-------|-------|------|-------|
| (mm) |    |      |     |       |       | (cm) |       |
| CA50 | 1  | 8.0  | 301 | 78    | 23478 |      |       |
|      | 2  | 5.0  | 87  | 98    | 8526  |      |       |
|      | 3  | 5.0  | 2   | 225   | 450   |      |       |
|      | 4  | 5.0  | 204 | 68    | 13872 |      |       |
|      | 5  | 5.0  | 2   | 240   | 480   |      |       |
|      | 6  | 5.0  | 39  | 86    | 3432  |      |       |
|      | 7  | 5.0  | 2   | 265   | 530   |      |       |
|      | 8  | 5.0  | 2   | 235   | 470   |      |       |
|      | 9  | 5.0  | 2   | 280   | 560   |      |       |
|      | 10 | 5.0  | 20  | 118   | 2360  |      |       |
|      | 11 | 5.0  | 15  | 108   | 1620  |      |       |
|      | 12 | 6.3  | 5   | 70    | 350   |      |       |
|      | 13 | 8.0  | 2   | 1062  | 2124  |      |       |
|      | 14 | 8.0  | 1   | 143   | 143   |      |       |
|      | 15 | 8.0  | 2   | 357   | 714   |      |       |
|      | 16 | 8.0  | 18  | 374   | 6732  |      |       |
|      | 17 | 8.0  | 1   | 93    | 93    |      |       |
|      | 18 | 8.0  | 4   | 408   | 1632  |      |       |
|      | 19 | 8.0  | 2   | 847   | 1694  |      |       |
|      | 20 | 8.0  | 1   | 495   | 495   |      |       |
|      | 21 | 8.0  | 2   | 878   | 1756  |      |       |
|      | 22 | 8.0  | 2   | 219   | 438   |      |       |
|      | 23 | 8.0  | 2   | 263   | 526   |      |       |
|      | 24 | 8.0  | 2   | 314   | 628   |      |       |
|      | 25 | 8.0  | 4   | 66    | 272   |      |       |
|      | 26 | 8.0  | 1   | 250   | 250   |      |       |
|      | 27 | 8.0  | 3   | 390   | 1170  |      |       |
|      | 28 | 8.0  | 2   | 94    | 188   |      |       |
|      | 29 | 8.0  | 2   | 99    | 198   |      |       |
|      | 30 | 8.0  | 1   | 203   | 203   |      |       |
|      | 31 | 8.0  | 2   | 855   | 1710  |      |       |
|      | 32 | 8.0  | 1   | 185   | 185   |      |       |
|      | 33 | 8.0  | 1   | 498   | 498   |      |       |
|      | 34 | 8.0  | 2   | 883   | 1766  |      |       |
|      | 35 | 8.0  | 2   | 1129  | 2258  |      |       |
|      | 36 | 8.0  | 1   | 140   | 140   |      |       |
|      | 37 | 8.0  | 2   | 1153  | 2306  |      |       |
|      | 38 | 8.0  | 1   | 113   | 113   |      |       |
|      | 39 | 8.0  | 1   | 240   | 240   |      |       |
|      | 40 | 8.0  | 2   | 83    | 166   |      |       |
|      | 41 | 8.0  | 2   | 73    | 146   |      |       |
|      | 42 | 8.0  | 2   | 202   | 404   |      |       |
|      | 43 | 8.0  | 2   | 216   | 432   |      |       |
|      | 44 | 8.0  | 1   | 83    | 83    |      |       |
|      | 45 | 8.0  | 2   | 405   | 810   |      |       |
|      | 46 | 8.0  | 1   | 115   | 115   |      |       |
|      | 47 | 8.0  | 2   | 160   | 320   |      |       |
|      | 48 | 8.0  | 2   | 147   | 294   |      |       |
|      | 49 | 8.0  | 3   | 138   | 414   |      |       |
|      | 50 | 8.0  | 3   | 118   | 354   |      |       |
|      | 51 | 8.0  | 1   | 114   | 114   |      |       |
|      | 52 | 8.0  | 1   | 169   | 169   |      |       |
|      | 53 | 8.0  | 2   | 411   | 822   |      |       |
|      | 54 | 8.0  | 2   | 224   | 448   |      |       |
|      | 55 | 8.0  | 2   | 268   | 536   |      |       |
|      | 56 | 8.0  | 1   | 108   | 108   |      |       |
|      | 57 | 8.0  | 2   | 417   | 834   |      |       |
|      | 58 | 8.0  | 1   | 112   | 112   |      |       |
|      | 59 | 8.0  | 2   | 413   | 826   |      |       |
|      | 60 | 8.0  | 2   | 399   | 798   |      |       |
|      | 61 | 8.0  | 2   | 412   | 824   |      |       |
|      | 62 | 8.0  | 2   | 392   | 784   |      |       |
|      | 63 | 8.0  | 2   | 405   | 810   |      |       |
|      | 64 | 8.0  | 2   | 384   | 768   |      |       |
|      | 65 | 8.0  | 2   | 410   | 820   |      |       |
|      | 66 | 10.0 | 1   | 180   | 180   |      |       |
|      | 67 | 10.0 | 2   | 1198  | 2396  |      |       |
|      | 68 | 10.0 | 2   | 325   | 650   |      |       |
|      | 69 | 10.0 | 2   | 415   | 830   |      |       |
|      | 70 | 10.0 | 2   | 421   | 842   |      |       |
|      | 71 | 10.0 | 6   | 489   | 2934  |      |       |

Resumo do aço das vigas de cobertura

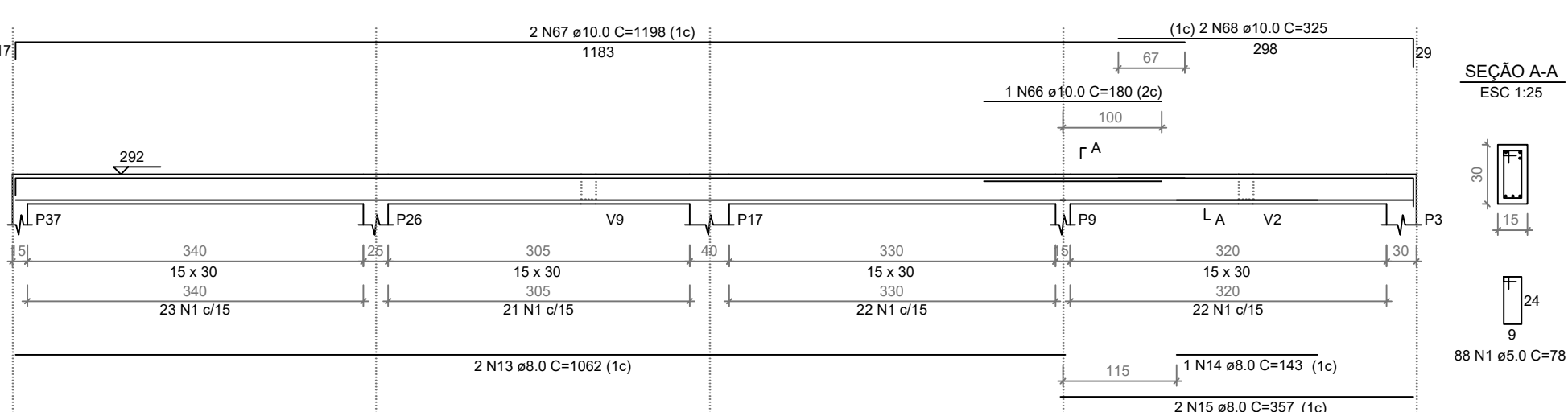
| AÇO        | D     | AM    | C   | TOTAL | PESO + 10 % |
|------------|-------|-------|-----|-------|-------------|
| (mm)       |       |       | (m) |       | (kg)        |
| CA50       | 6.3   | 3.5   |     | 0.9   |             |
|            | 8.0   | 407.9 |     | 177   |             |
|            | 10.0  | 78.4  |     | 53.1  |             |
| CA60       | 15.0  | 557.8 |     | 94.6  |             |
| PESO TOTAL |       |       |     |       |             |
| CA50       | 231.1 |       |     |       |             |
| CA60       | 94.6  |       |     |       |             |

Volume de concreto (C-30) = 5.42 m³

Área de forma = 88.98 m²

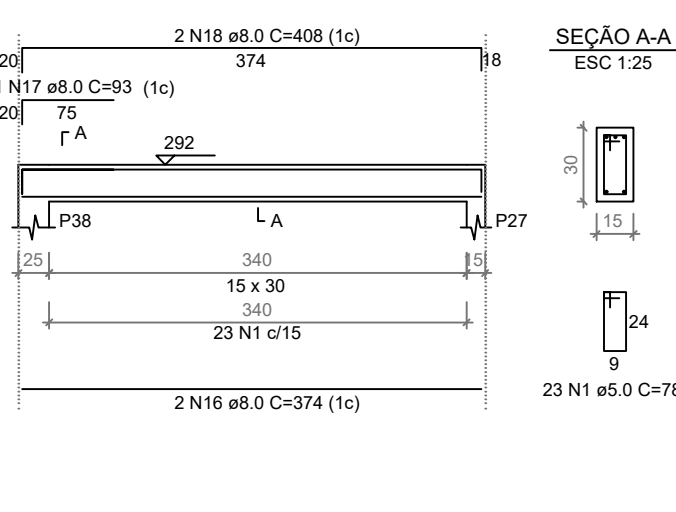
V36

ESC 1:50



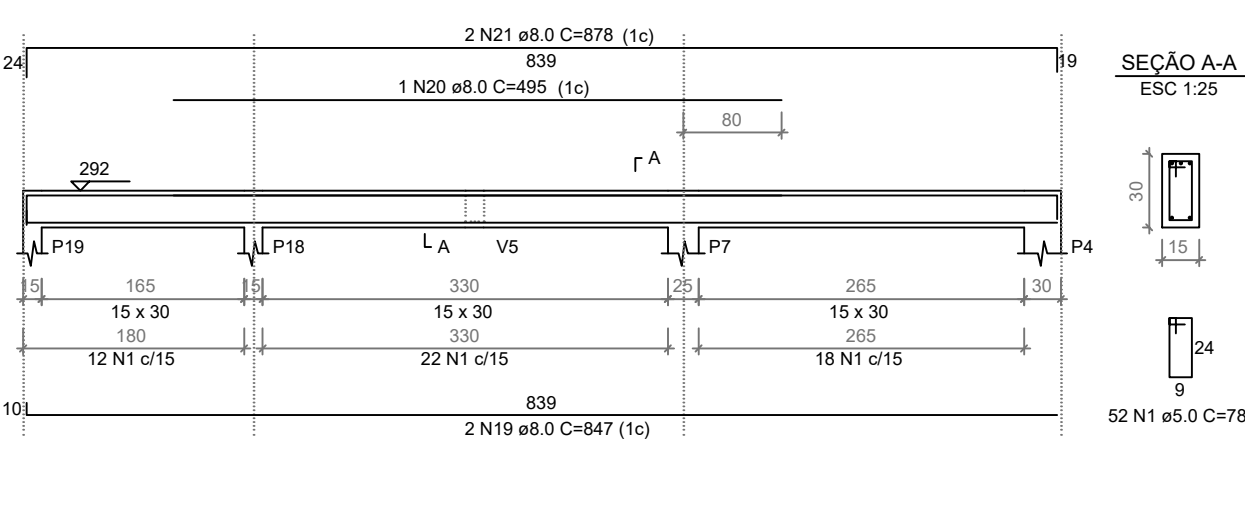
V37

ESC 1:50



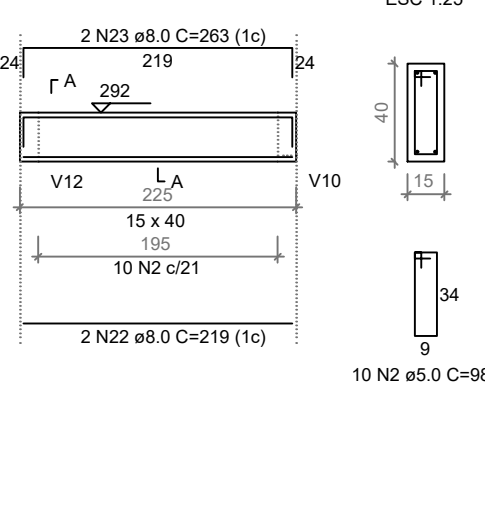
V38

ESC 1:50



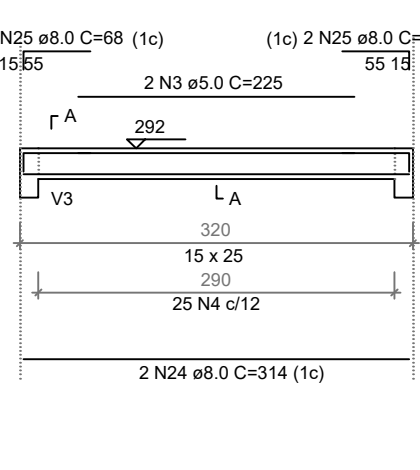
V39

ESC 1:50



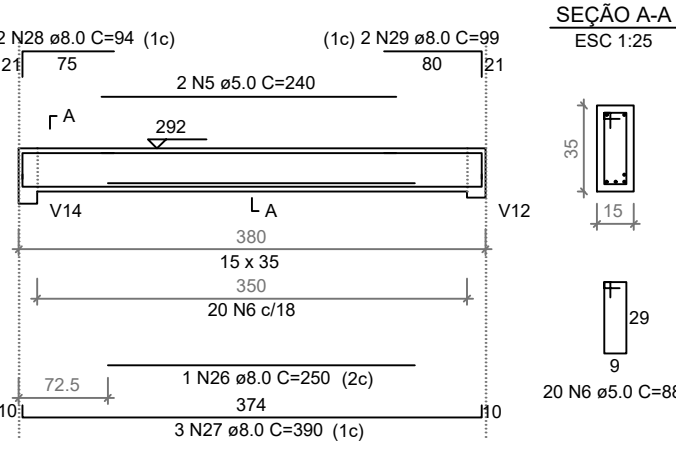
V40

ESC 1:50



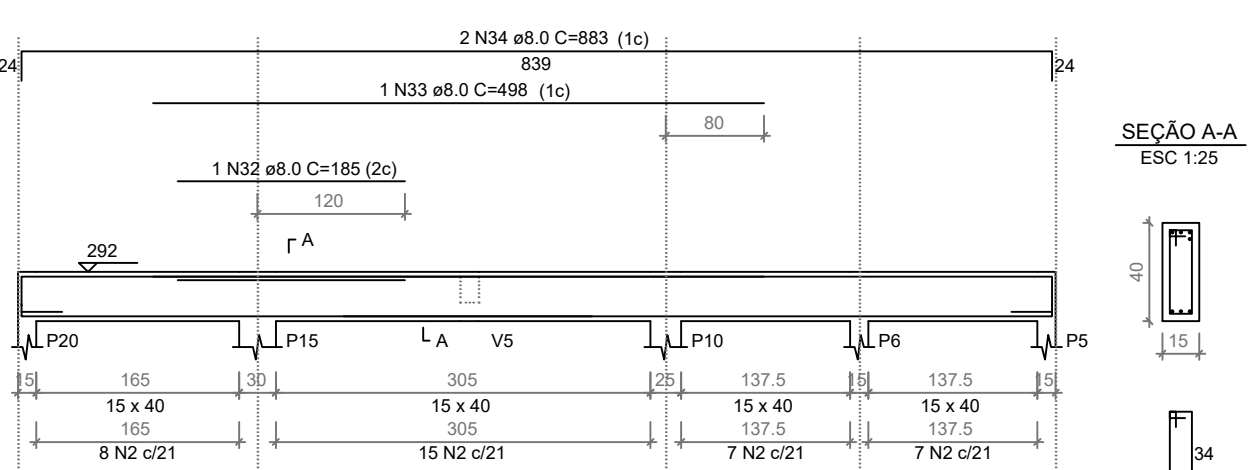
V41

ESC 1:50



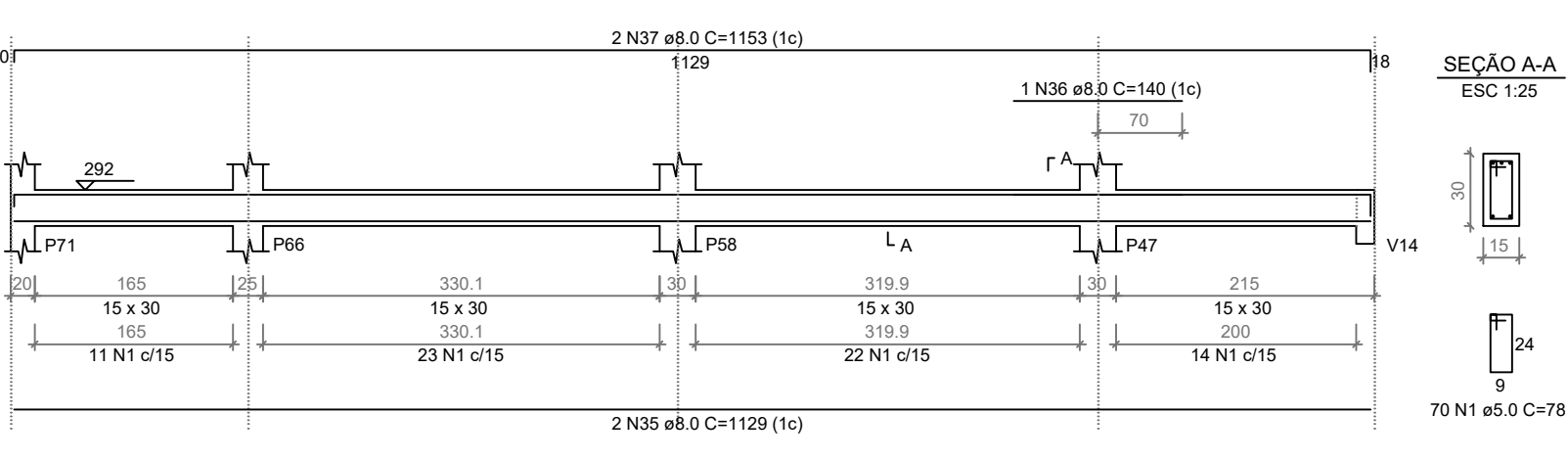
V42

ESC 1:50



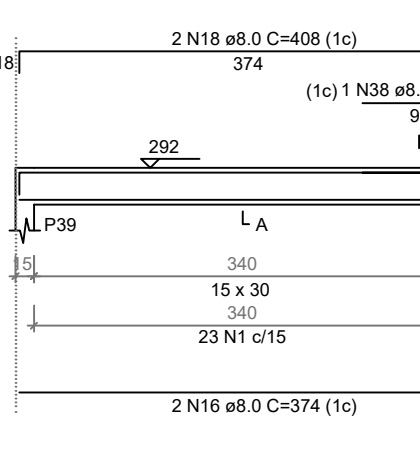
V43

ESC 1:50



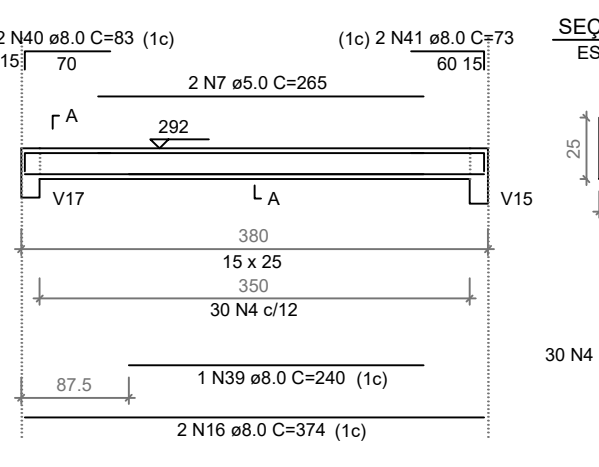
V44

ESC 1:50



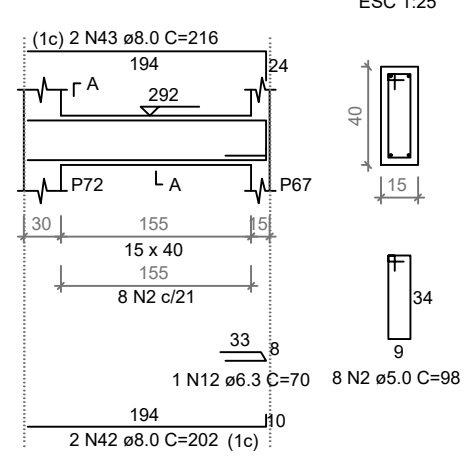
V45

ESC 1:50



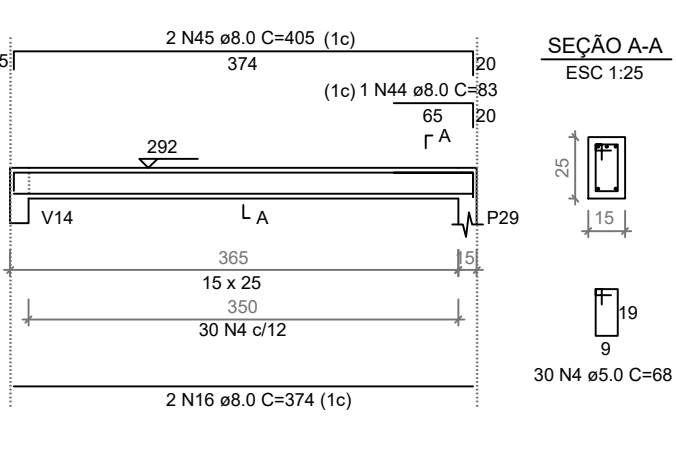
V46

ESC 1:50



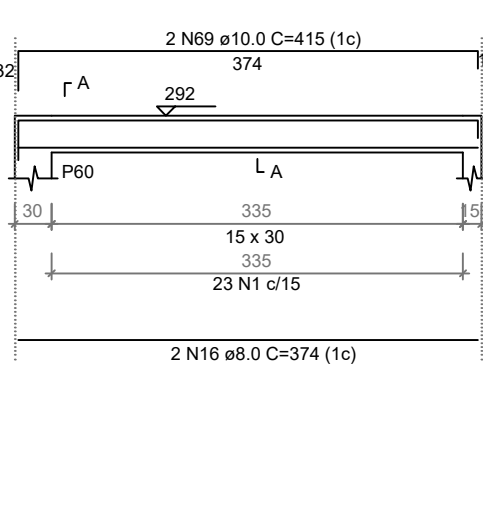
V47

ESC 1:50



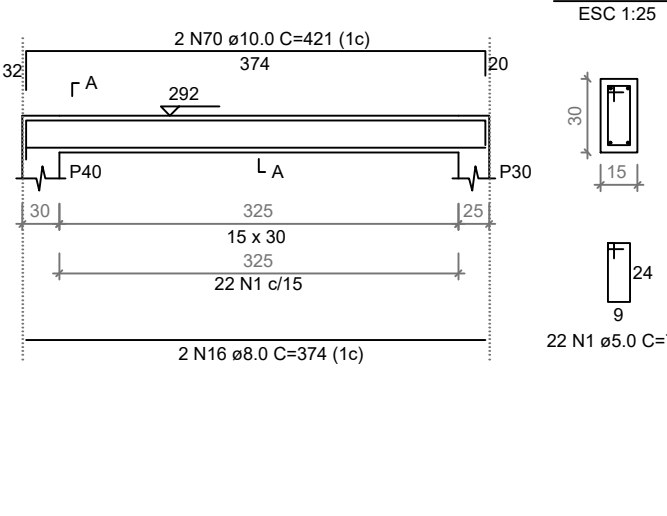
V48

ESC 1:50



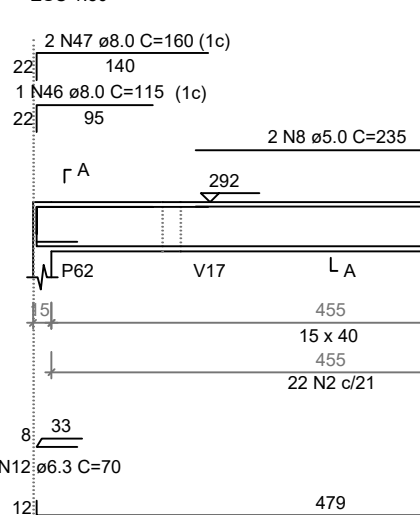
V49

ESC 1:50



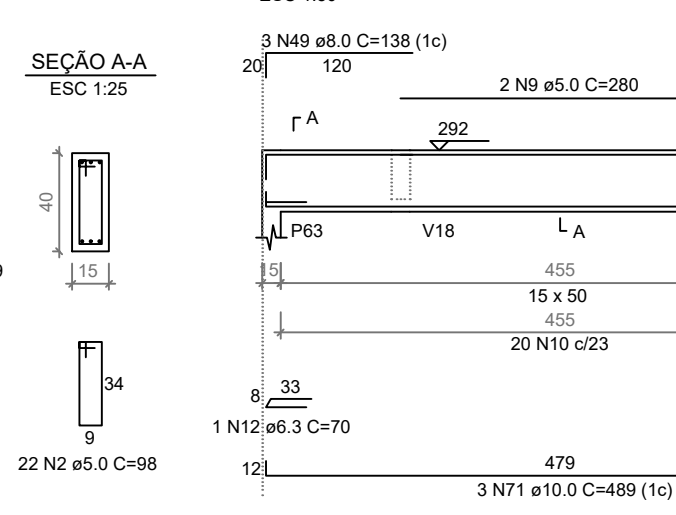
V50

ESC 1:50



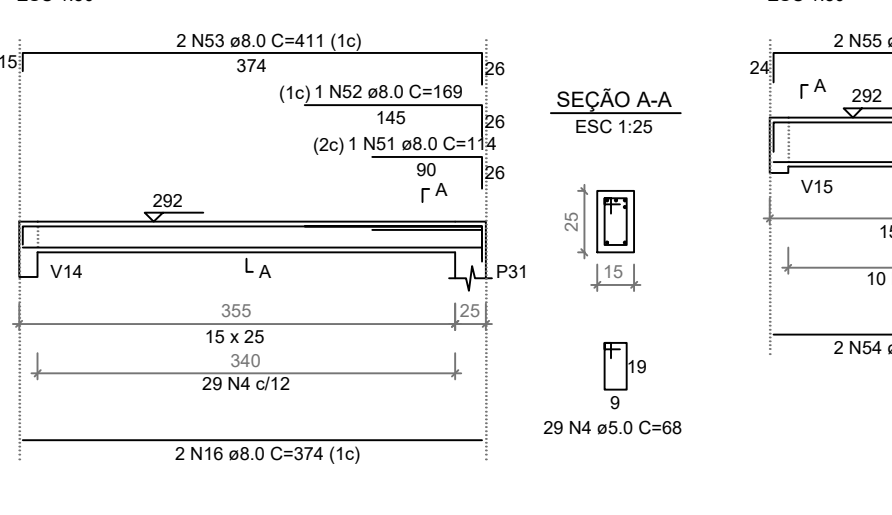
V51

ESC 1:50



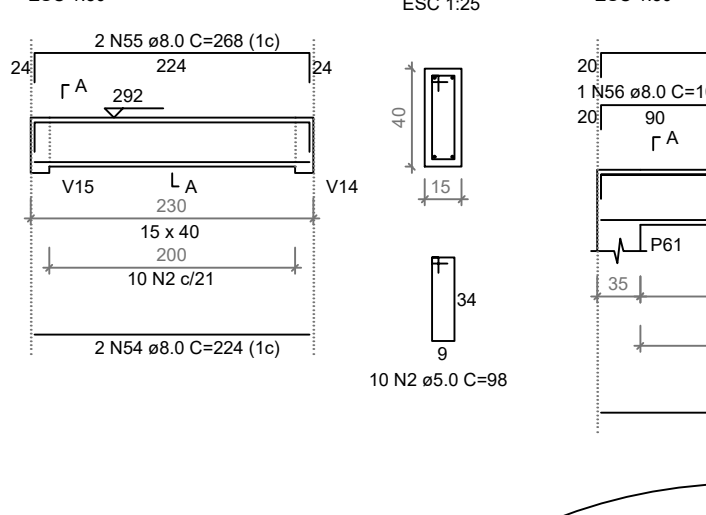
V52

ESC 1:50



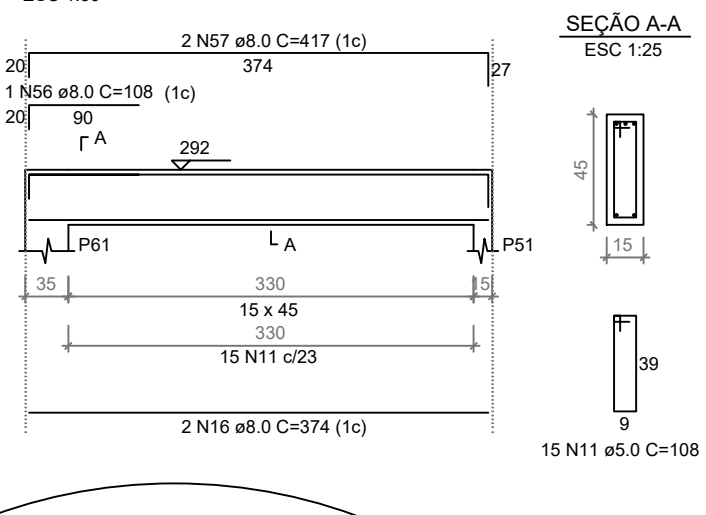
V53

ESC 1:50



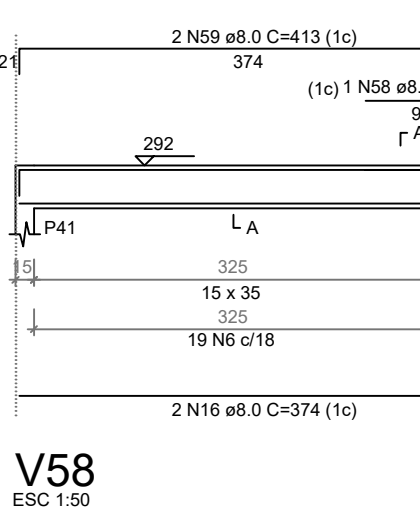
V54

ESC 1:50



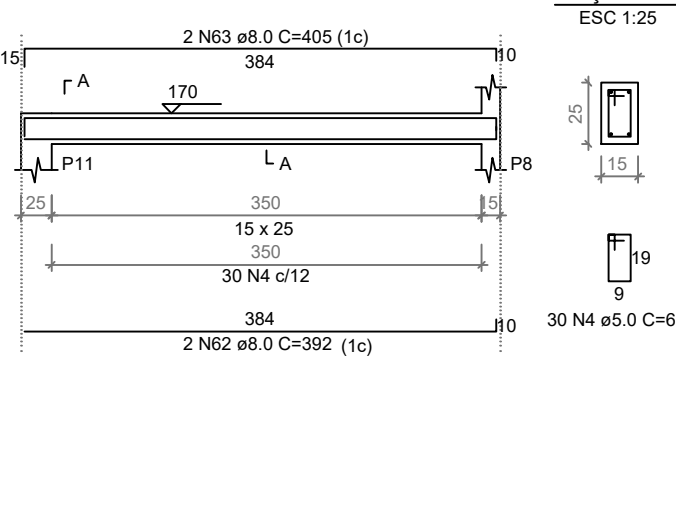
V55

ESC 1:50



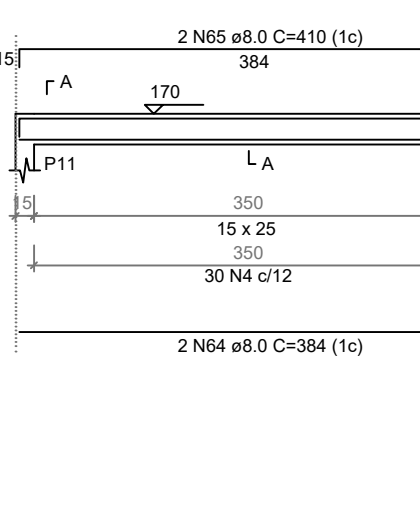
V57

ESC 1:50



V58

ESC 1:50



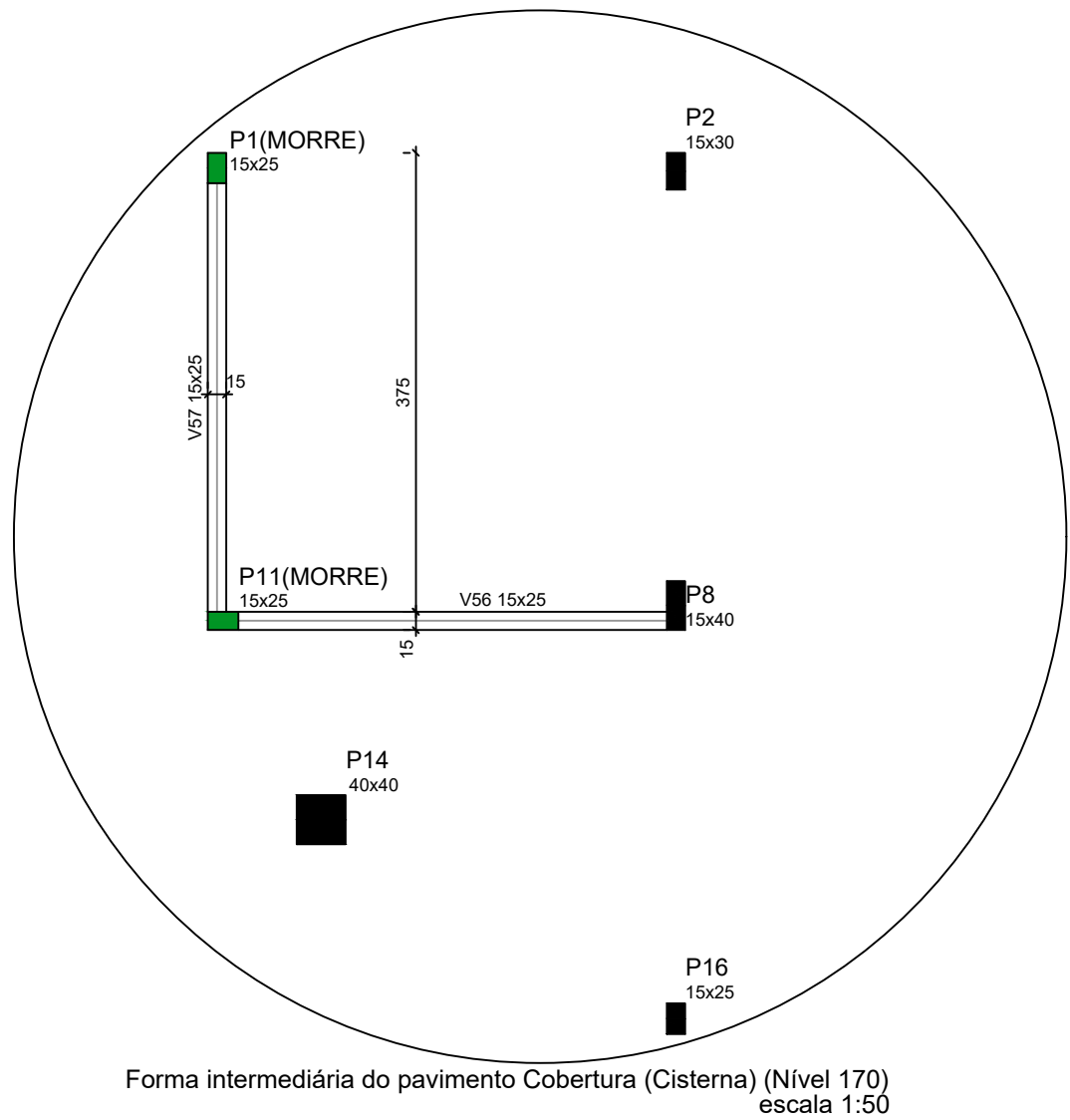
| Vigas |       |          |
|-------|-------|----------|
| Nome  | Seção | Elevação |
| V49   | 15x25 | 0        |
| V50   | 15x25 | 0        |
| V51   | 15x25 | 0        |

| Características dos materiais |        |  |
|-------------------------------|--------|--|
| fck                           | Ecs    |  |
| 300                           | 268384 |  |

| Pilares |       |          |
|---------|-------|----------|
| Nome    | Seção | Elevação |
| P1      | 15x25 | 0        |
| P2      | 15x30 | 0        |
| P8      | 15x40 | 0        |
| P11     | 15x25 | 0        |

| Legenda dos pilares |                 |
|---------------------|-----------------|
|                     | Pilar que morre |
|                     | Pilar que passa |

| Legenda das vigas e paredes |      |
|-----------------------------|------|
|                             | Viga |



## APROVAÇÕES



Prefeitura Municipal de Rancho Queimado

Praça Leonardo Sell, 40 - Centro - Rancho Queimado - Santa Catarina - CEP 88470-000  
Fone: (48) 3275-3100 - E-mail: [pmrq@ranchoqueimado.sc.gov.br](mailto:pmrq@ranchoqueimado.sc.gov.br) - site: [www.rq.sc.gov.br](http://www.rq.sc.gov.br)  
CNPJ 82.892.357/0001-96

Local da obra:

Rua Nossa Senhora dos Nascituros, s/n.º - Centro , Rancho Queimado

## PROJETO ESTRUTURAL

EDIFICAÇÃO INSTITUCIONAL

Proprietário:

Responsável Técnico(a) de projeto:

Prefeitura Municipal de Rancho Queimado  
82.892.357/0001-96

JONATHAN DE SOUZA NUNES  
CREA/SC 156148-2

Área: 513,22 m² | Data: 17/04/2023 | Escala: Indicada | Arquivo: ESTRUTURAL.dwg | Unidades de medida : metros e metros quadrados

Conteúdo: VIGAS PAVIMENTO COBERTURA

FOLHA:  
12  
DE: 21