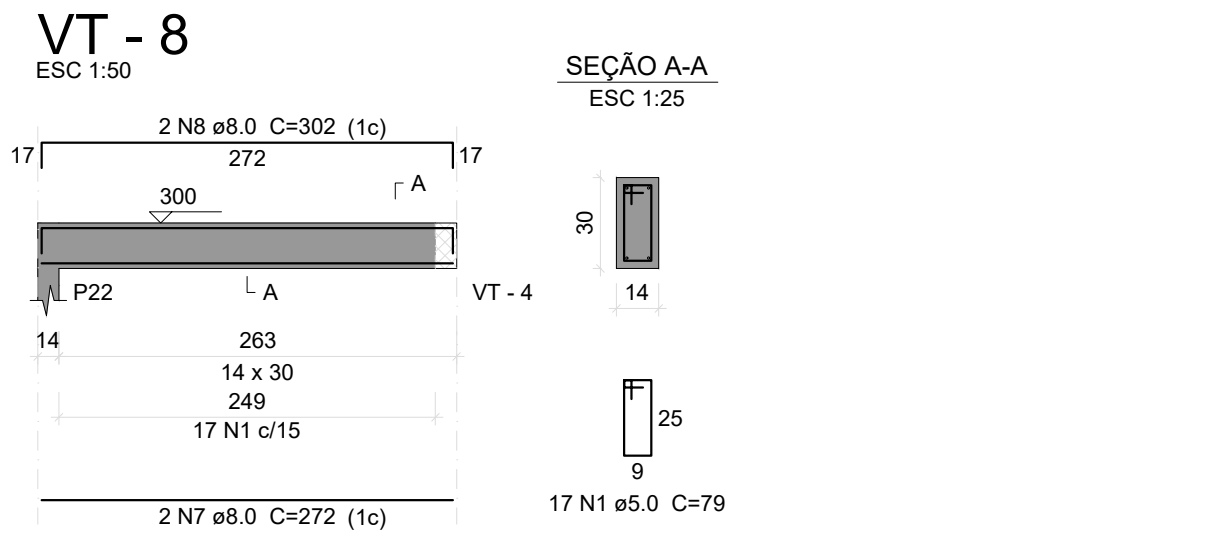
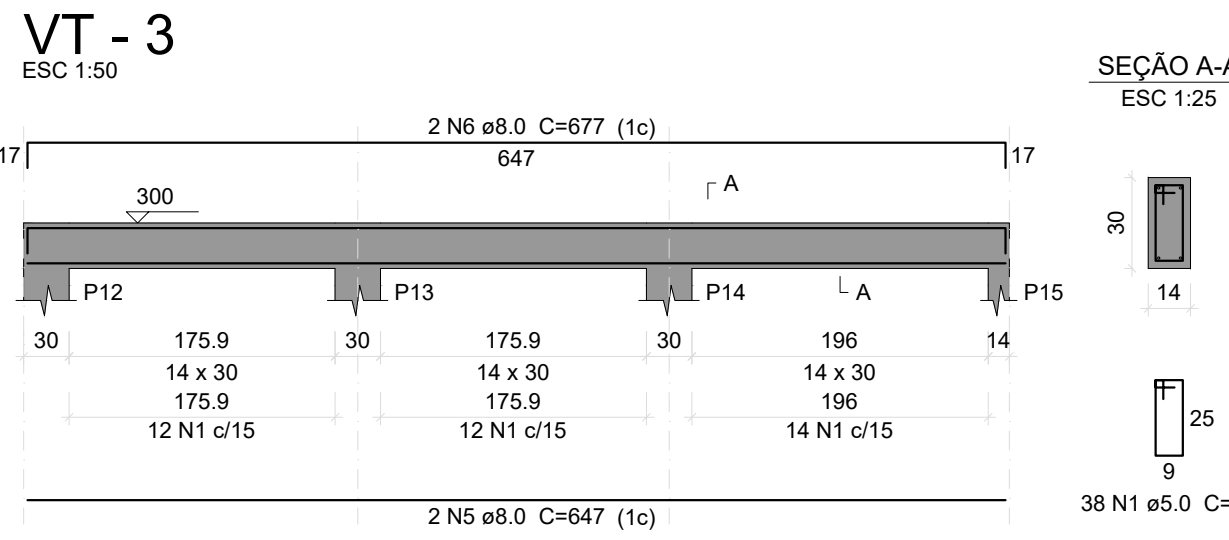
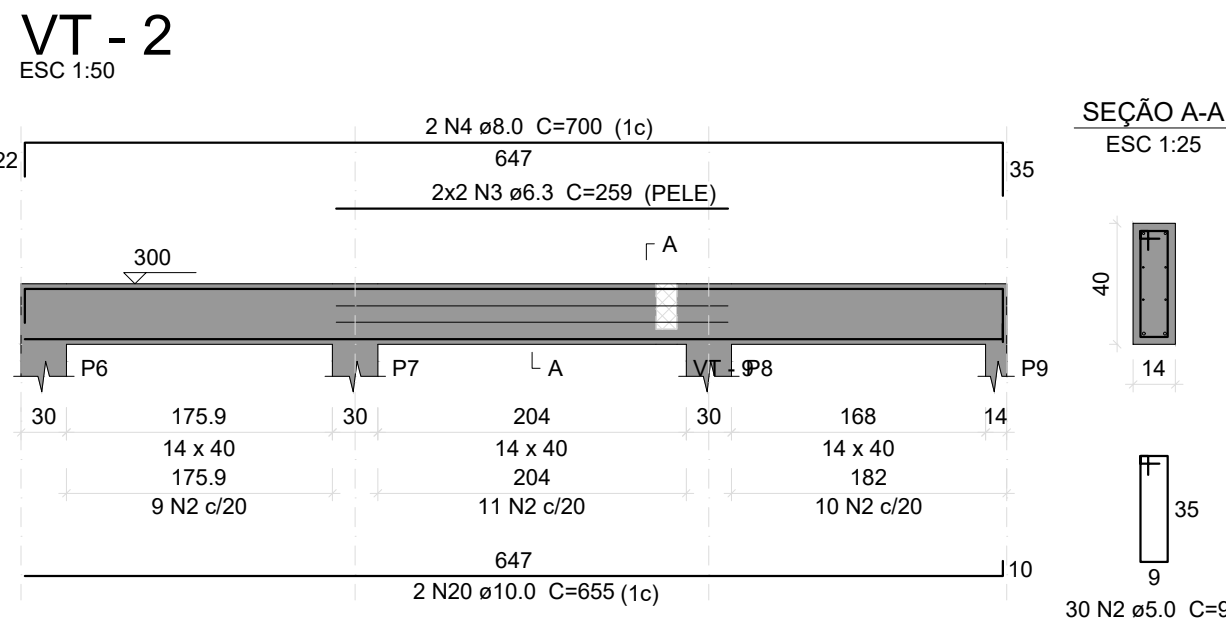
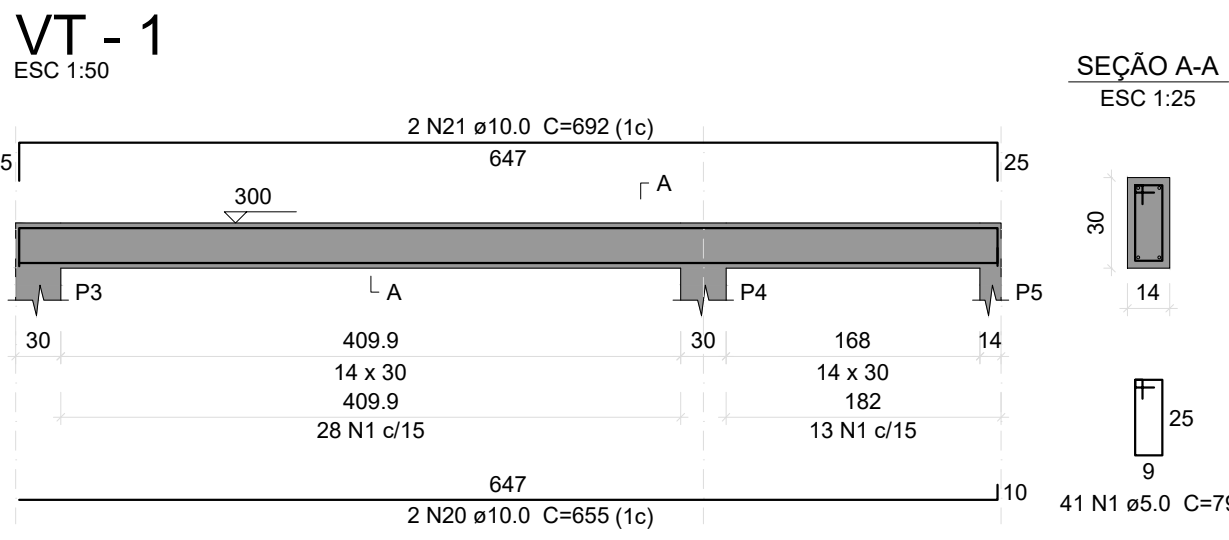
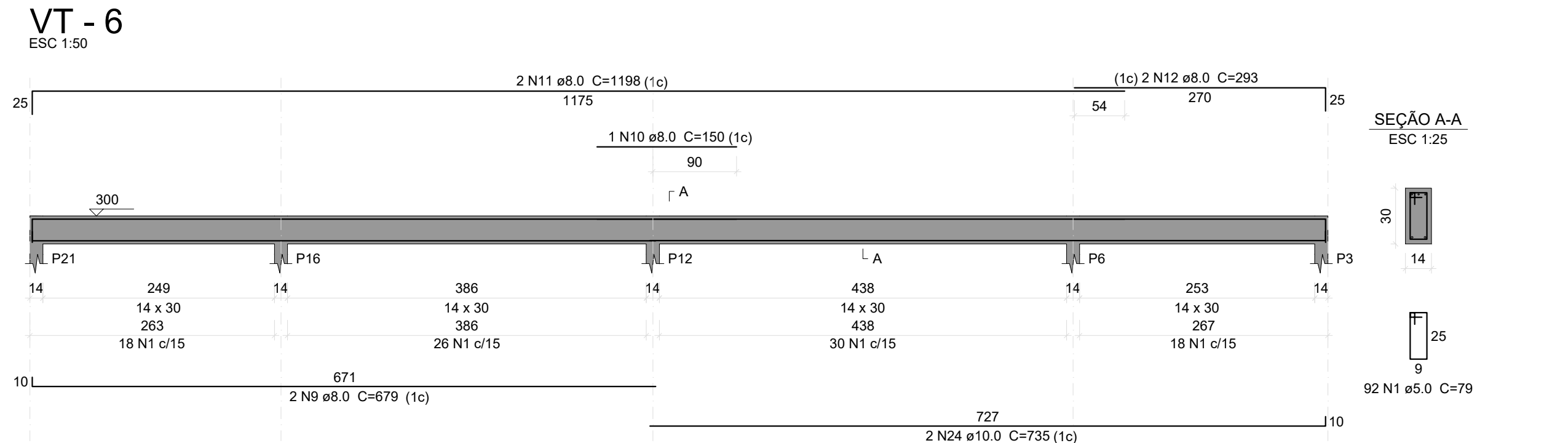
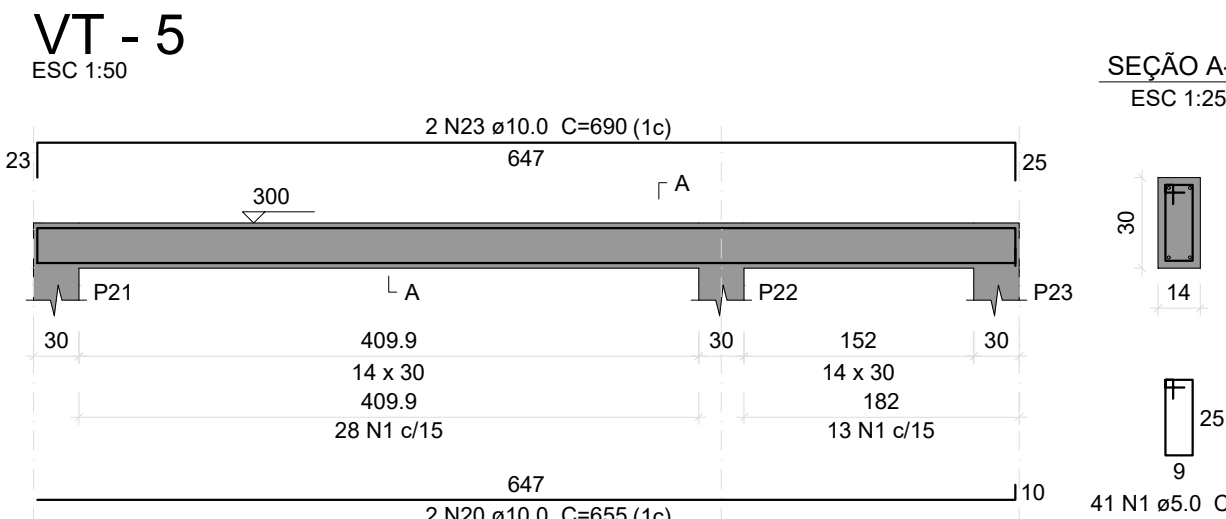
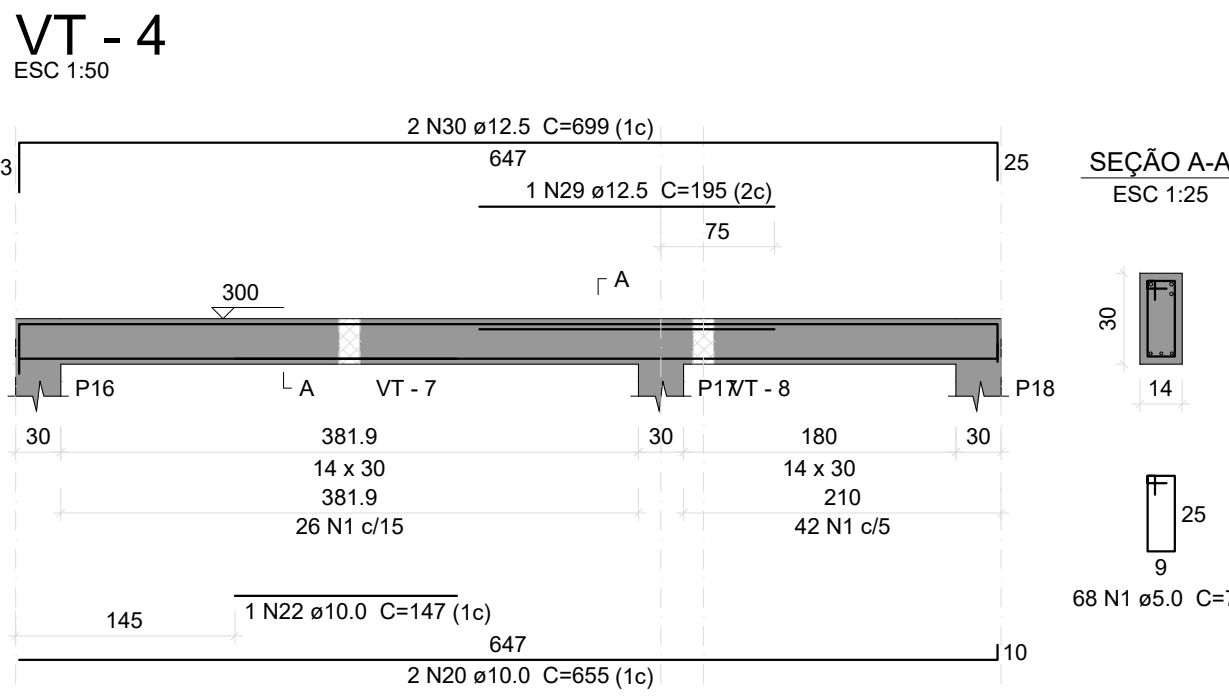


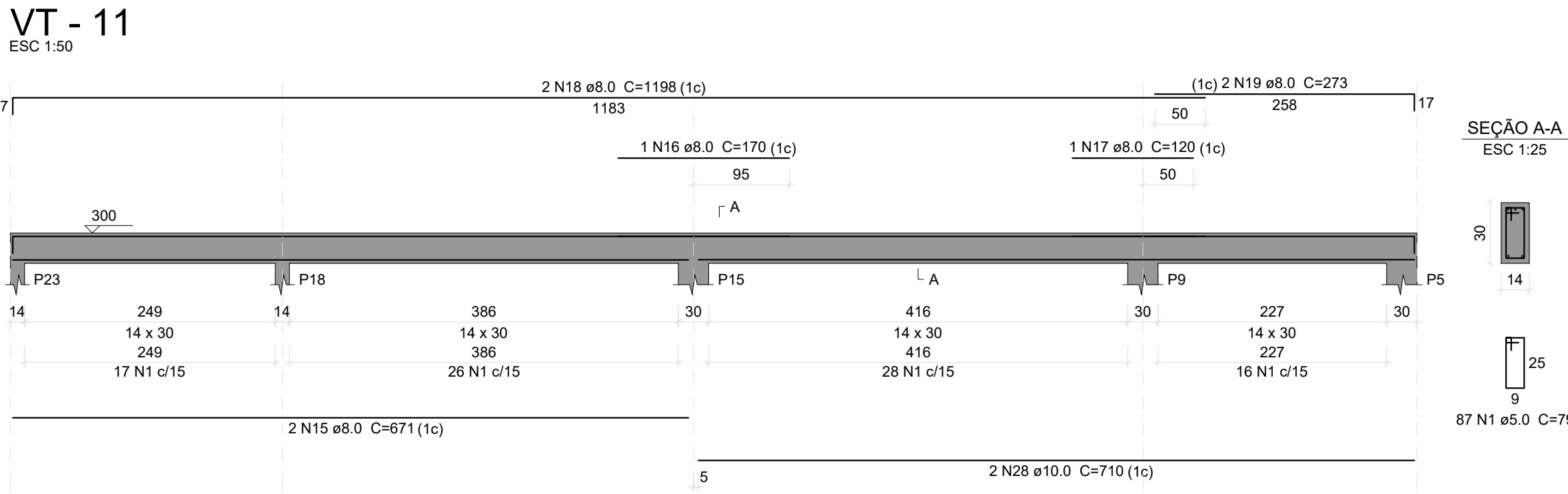
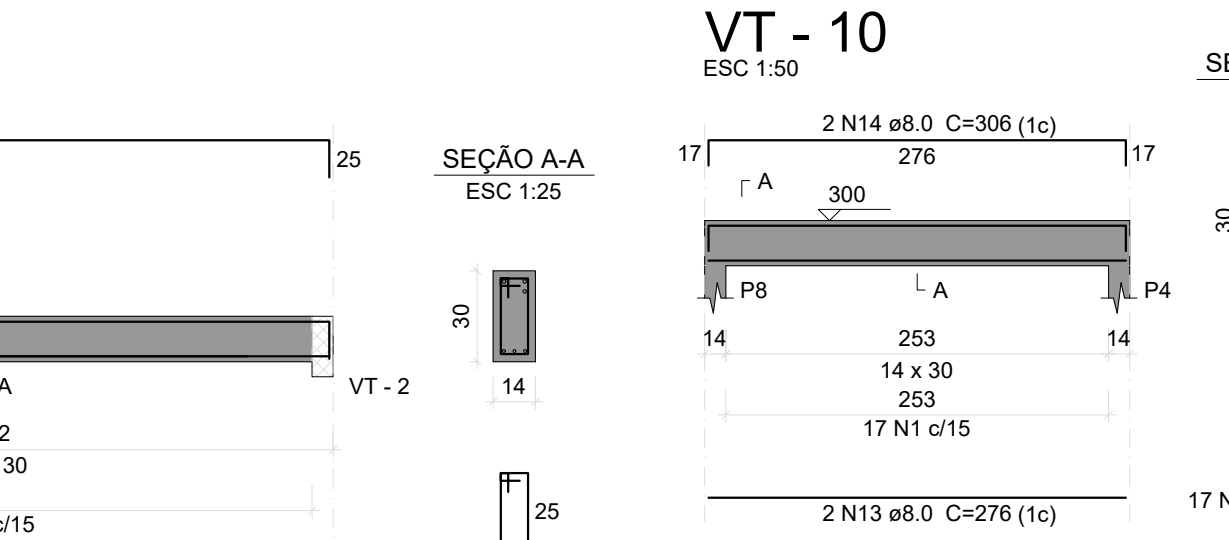
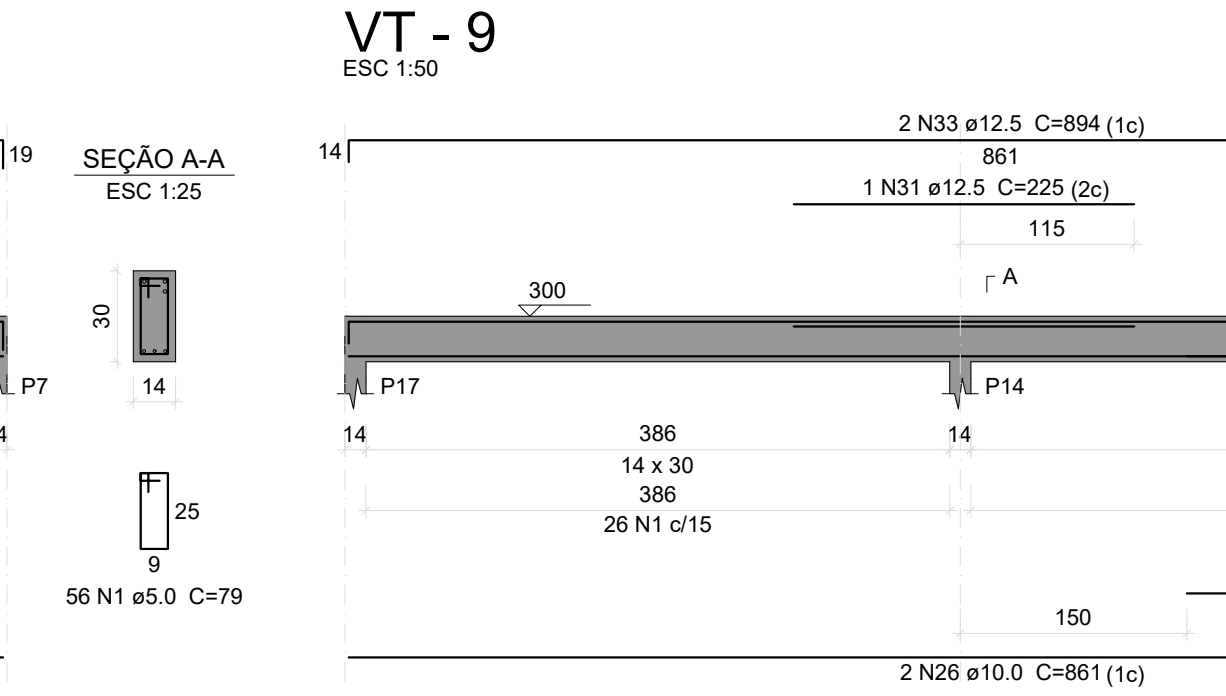
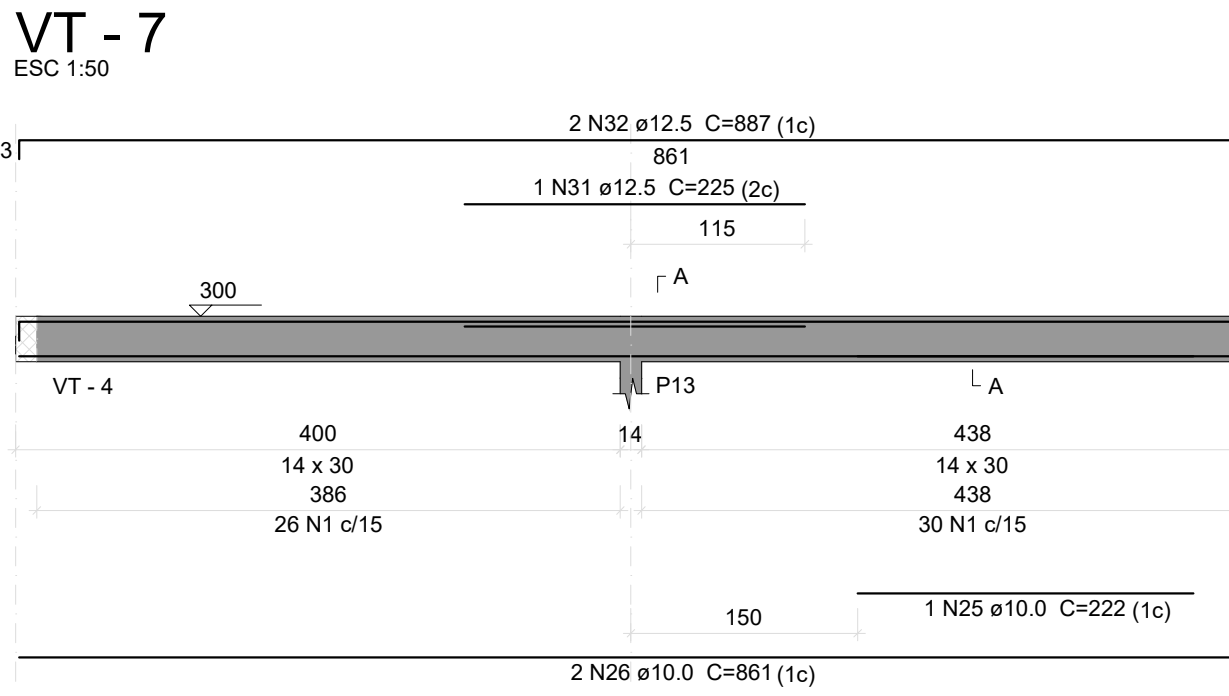


| Relação do aço |         |           |       |             |              |
|----------------|---------|-----------|-------|-------------|--------------|
| VT - 1         | VT - 2  | VT - 3    |       |             |              |
| VT - 4         | VT - 5  | VT - 6    |       |             |              |
| VT - 7         | VT - 8  | VT - 9    |       |             |              |
| VT - 10        | VT - 11 |           |       |             |              |
| AÇO            | N       | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
| CA60           | 1       | 5.0       | 513   | 79          | 40527        |
|                | 2       | 5.0       | 30    | 99          | 2970         |
| CA50           | 3       | 6.3       | 4     | 259         | 1036         |
|                | 4       | 8.0       | 2     | 700         | 1400         |
|                | 5       | 8.0       | 2     | 647         | 1294         |
|                | 6       | 8.0       | 2     | 677         | 1354         |
|                | 7       | 8.0       | 2     | 272         | 544          |
|                | 8       | 8.0       | 2     | 302         | 604          |
|                | 9       | 8.0       | 2     | 679         | 1358         |
|                | 10      | 8.0       | 1     | 150         | 150          |
|                | 11      | 8.0       | 2     | 1198        | 2396         |
|                | 12      | 8.0       | 2     | 293         | 586          |
|                | 13      | 8.0       | 2     | 276         | 552          |
|                | 14      | 8.0       | 2     | 306         | 612          |
|                | 15      | 8.0       | 2     | 671         | 1342         |
|                | 16      | 8.0       | 1     | 170         | 170          |
|                | 17      | 8.0       | 1     | 120         | 120          |
|                | 18      | 8.0       | 2     | 1198        | 2396         |
|                | 19      | 8.0       | 2     | 273         | 546          |
|                | 20      | 10.0      | 8     | 655         | 5240         |
|                | 21      | 10.0      | 2     | 692         | 1384         |
|                | 22      | 10.0      | 1     | 147         | 147          |
|                | 23      | 10.0      | 2     | 690         | 1380         |
|                | 24      | 10.0      | 2     | 735         | 1470         |
|                | 25      | 10.0      | 1     | 222         | 222          |
|                | 26      | 10.0      | 4     | 861         | 3444         |
|                | 27      | 10.0      | 1     | 252         | 252          |
|                | 28      | 10.0      | 2     | 710         | 1420         |
|                | 29      | 12.5      | 1     | 195         | 195          |
|                | 30      | 12.5      | 2     | 699         | 1398         |
|                | 31      | 12.5      | 2     | 225         | 450          |
|                | 32      | 12.5      | 2     | 887         | 1774         |
|                | 33      | 12.5      | 2     | 894         | 1788         |

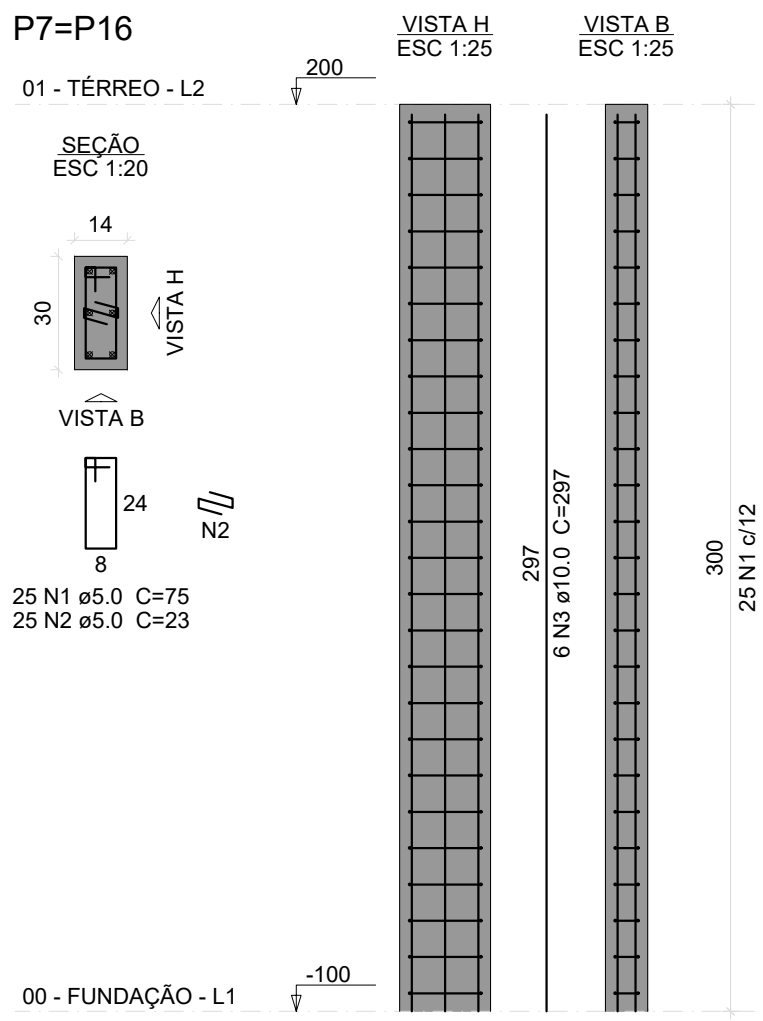
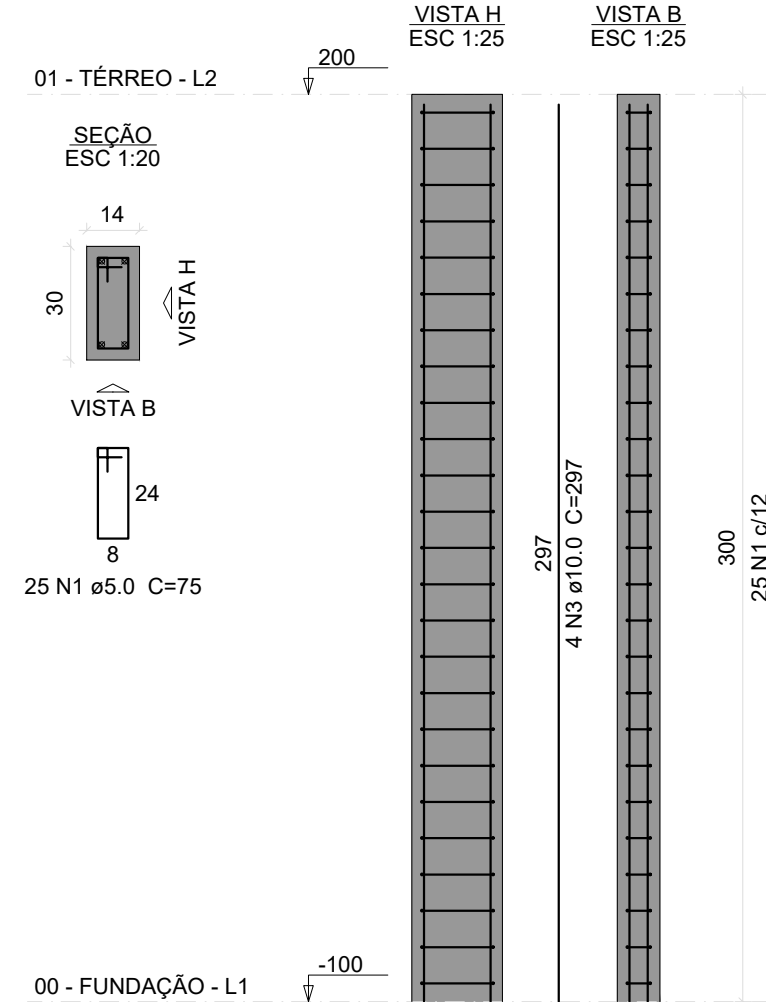


| Resumo do aço   |           |             |                       |                  |
|-----------------|-----------|-------------|-----------------------|------------------|
| AÇO             | DIAM (mm) | C.TOTAL (m) | QUANT + 10 % (Barras) | PESO + 10 % (kg) |
| CA50            | 6.3       | 10.4        | 1                     | 2.8              |
|                 | 8.0       | 154.3       | 15                    | 66.9             |
|                 | 10.0      | 149.6       | 14                    | 101.5            |
|                 | 12.5      | 56.1        | 6                     | 59.4             |
|                 | 5.0       | 435         | -                     | 73.7             |
| PESO TOTAL (kg) |           |             |                       |                  |
| CA50            |           | 230.6       |                       |                  |
| CA60            |           | 73.7        |                       |                  |

Volume de concreto (C-30) = 3.53 m³  
Área de forma = 43.36 m²



P3=P4=P5=P6=P8=P9=P12=  
=P13=P14=P15=P17=P18=  
=P21=P22=P23



| Relação do aço |      |           |       |             |              |
|----------------|------|-----------|-------|-------------|--------------|
| 15xP3          | 2xP7 |           |       |             |              |
| AÇO            | N    | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
| CA60           | 1    | 5.0       | 425   | 75          | 31875        |
|                | 2    | 5.0       | 50    | 23          | 1150         |
| CA50           | 3    | 10.0      | 72    | 297         | 21384        |

| Resumo do aço   |           |             |                       |                  |
|-----------------|-----------|-------------|-----------------------|------------------|
| AÇO             | DIAM (mm) | C.TOTAL (m) | QUANT + 10 % (Barras) | PESO + 10 % (kg) |
| CA50            | 10.0      | 213.9       | 20                    | 145              |
| CA60            | 5.0       | 330.3       | -                     | 56               |
| PESO TOTAL (kg) |           |             |                       |                  |
| CA50            |           | 145         |                       |                  |
| CA60            |           | 56          |                       |                  |

Volume de concreto (C-30) = 2.14 m³  
Área de forma = 44.88 m²

PROJETO ESTRUTURAL

CONSTRUÇÃO DE NOVA ÁREA DE CONVIVÊNCIA NA ESCOLA MUNICIPAL PAULO VIEIRA SOUTO

Descrição do Projeto: Armagem Vigas Superiores e Pilares Térreo, Resumo de Aço.

Responsável Técnico: KAREN MARIANA SOARES VIEIRA-09588911680

Contratante: RODRIGO VIEIRA DE MATOS-09977653640

Endereço: Rua São João nº 101, Bairro Alto da Bela Vista, Olhos D'Água-MG.

Área (m²): 288,00 m²

Data: 04 de Maio de 2025.

Referência / Número da pasta: VLK - 3PSP - OLH - 20

Prancha: 05/06

Contratada: (38) 9 9977-6300

Contratante: (38) 3225-0086

Assinado de forma digital por KAREN MARIANA SOARES VIEIRA-09588911680

Assinado de forma digital por RODRIGO VIEIRA DE MATOS-09977653640

Assinado de forma digital por Rodrigo Vieira de Matos

Assinado de forma digital por Prefeitura Municipal de Olhos D'Água-MG

CNPJ: 57.955.661/0001-98

CNPJ: 01.612.547/0001-00

CNPJ: 01.612.547/0001-00

CNPJ: 01.612.547/0001-00