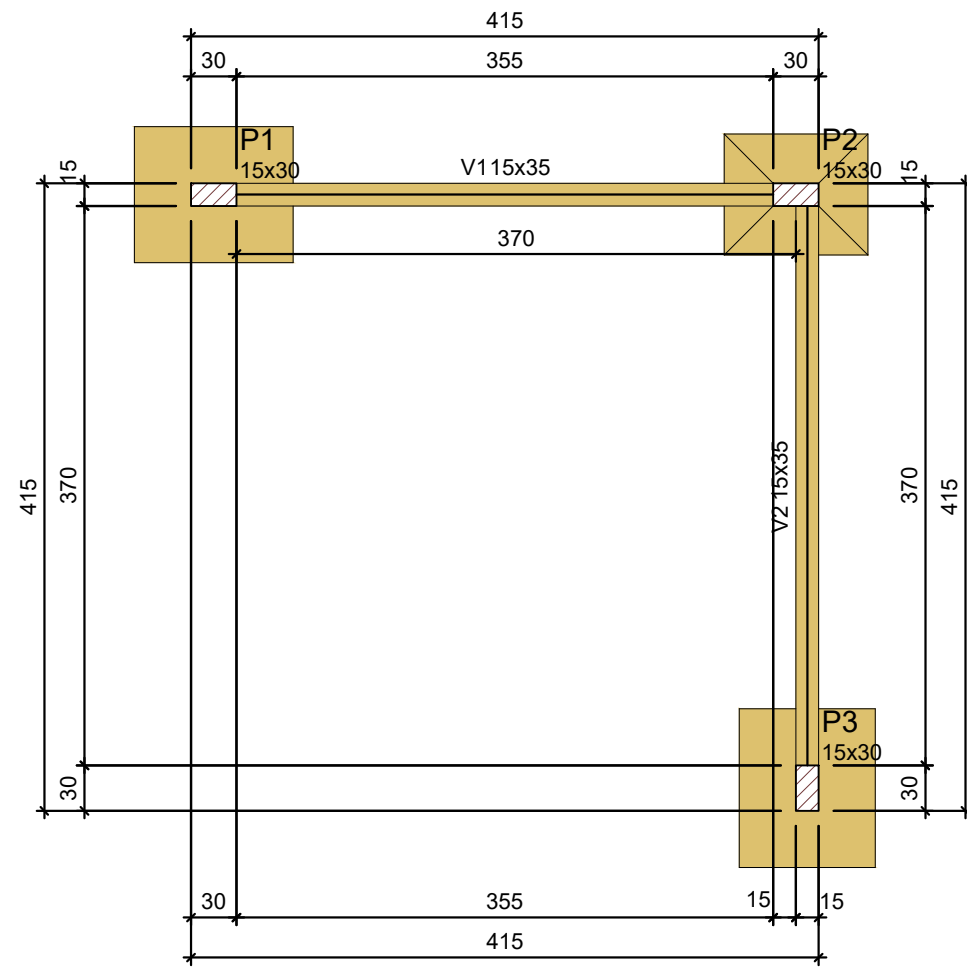
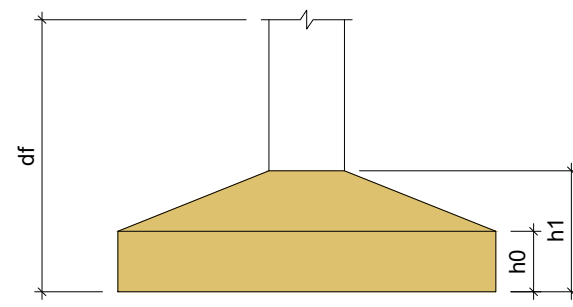


| Nome | Seção (cm) | X (cm) | Y (cm) | Carga Máx. (kN) | Carga Mín. (kN) | Pilar | | | | Fundação | | | |
|------|------------|--------|--------|-----------------|-----------------|------------------|----------|------------------|----------|----------------|----------|----------------|----------|
| | | | | | | Mx Máximo (kN.m) | | My Máximo (kN.m) | | Fx Máximo (kN) | | Fy Máximo (kN) | |
| | | | | | | Positivo | Negativo | Positivo | Negativo | Positivo | Negativo | Positivo | Negativo |
| P1 | 15x30 | 30.00 | 422.50 | 14 | 6 | 5 | -6 | 4 | -4 | 3 | -3 | 2 | -3 |
| P2 | 15x30 | 415.00 | 422.50 | 20 | 11 | 2 | -2 | 5 | -5 | 4 | -2 | 3 | -1 |
| P3 | 15x30 | 422.50 | 30.00 | 15 | 7 | 6 | -5 | 5 | -6 | 2 | -3 | 3 | -4 |

| Localção no eixo X | |
|--------------------|------|
| Coordenadas (cm) | Nome |
| 30.00 | P1 |
| 415.00 | P2 |
| 422.50 | P3 |

| Localção no eixo Y | |
|--------------------|--------|
| Coordenadas (cm) | Nome |
| 422.50 | P1, P2 |
| 30.00 | P3 |

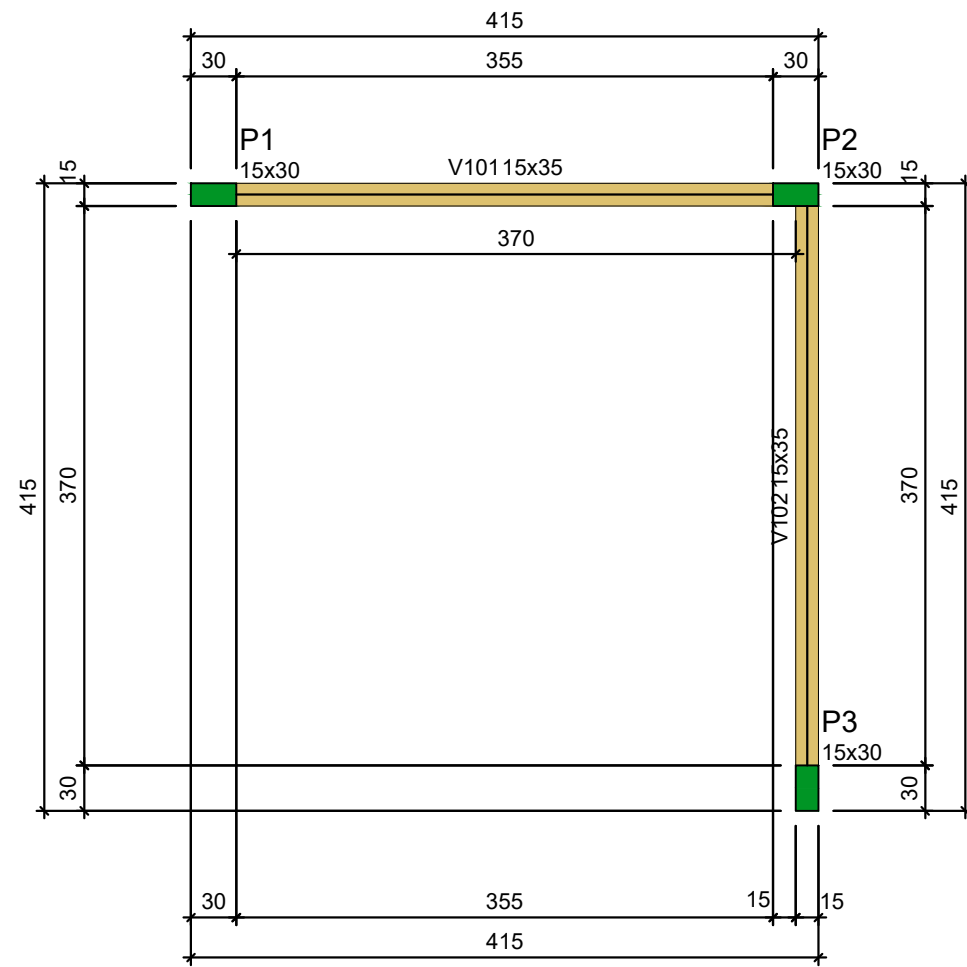


| Vigas | | | |
|-------|------------|--------------|-----------|
| Nome | Seção (cm) | Elevação (m) | Nível (m) |
| V1 | 15x35 | 0.00 | 0.00 |
| V2 | 15x35 | 0.00 | 0.00 |

| Características dos materiais | |
|-------------------------------|-----------|
| fck (MPa) | Ecs (MPa) |
| 25 | 24150 |

| Pilares | | | |
|---------|------------|--------------|-----------|
| Nome | Seção (cm) | Elevação (m) | Nível (m) |
| P1 | 15x30 | 0.00 | 0.00 |
| P2 | 15x30 | 0.00 | 0.00 |
| P3 | 15x30 | 0.00 | 0.00 |

| Legenda dos pilares | |
|-----------------------------|-----------------|
| | Pilar que passa |
| | Pilar que morre |
| Legenda das vigas e paredes | |
| | Viga |



| Vigas | | | |
|-------|------------|--------------|-----------|
| Nome | Seção (cm) | Elevação (m) | Nível (m) |
| V101 | 15x35 | 0.00 | 3.00 |
| V102 | 15x35 | 0.00 | 3.00 |

| Características dos materiais | |
|-------------------------------|-----------|
| fck (MPa) | Ecs (MPa) |
| 25 | 24150 |

| Pilares | | | |
|---------|------------|--------------|-----------|
| Nome | Seção (cm) | Elevação (m) | Nível (m) |
| P1 | 15x30 | 0.00 | 3.00 |
| P2 | 15x30 | 0.00 | 3.00 |
| P3 | 15x30 | 0.00 | 3.00 |

| Legenda dos pilares | |
|-----------------------------|-----------------|
| | Pilar que passa |
| | Pilar que morre |
| Legenda das vigas e paredes | |
| | Viga |

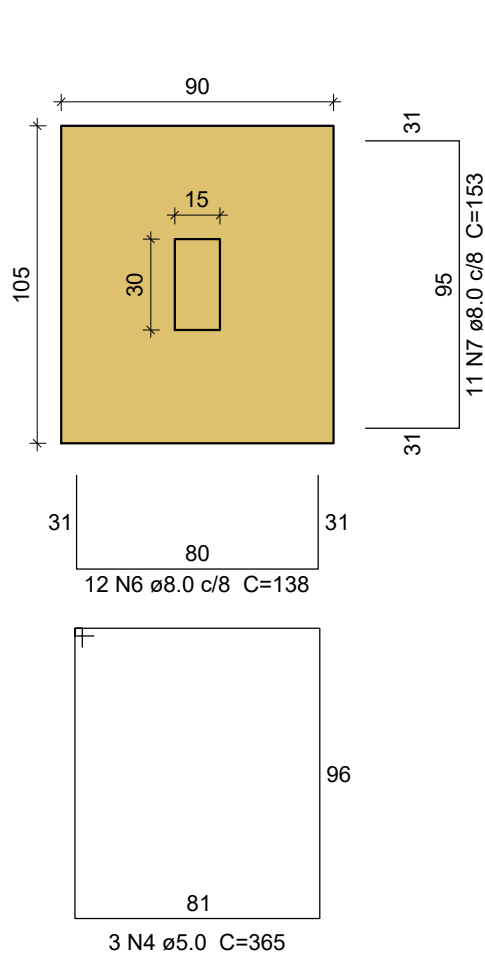
FORMA DO PAVIMENTO 0 (NÍVEL 0.00)

Escala 1:50

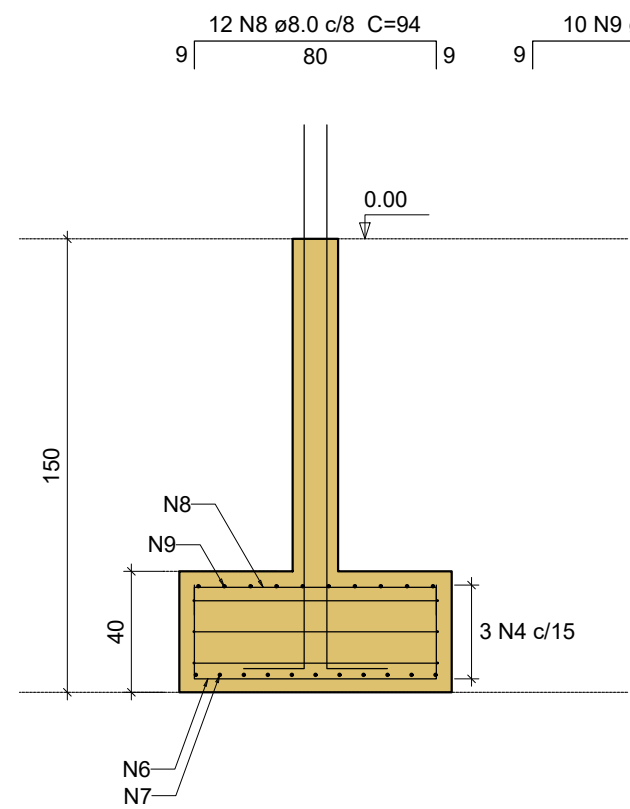
FORMA DO PAVIMENTO 1 (NÍVEL 3.00)

Escala 1:50

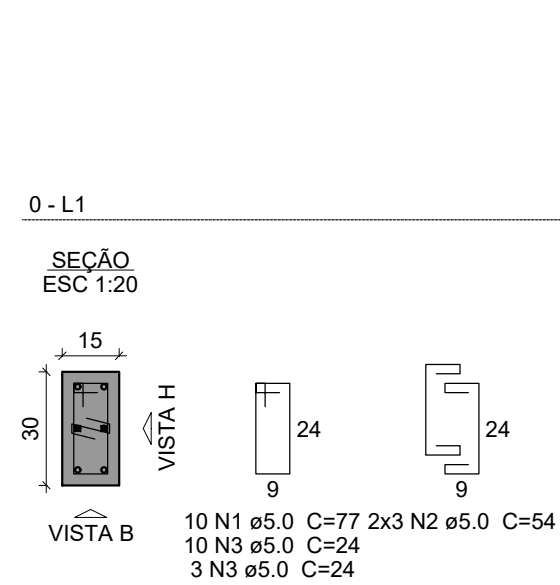
S1=S3
PLANTA
ESC 1:25



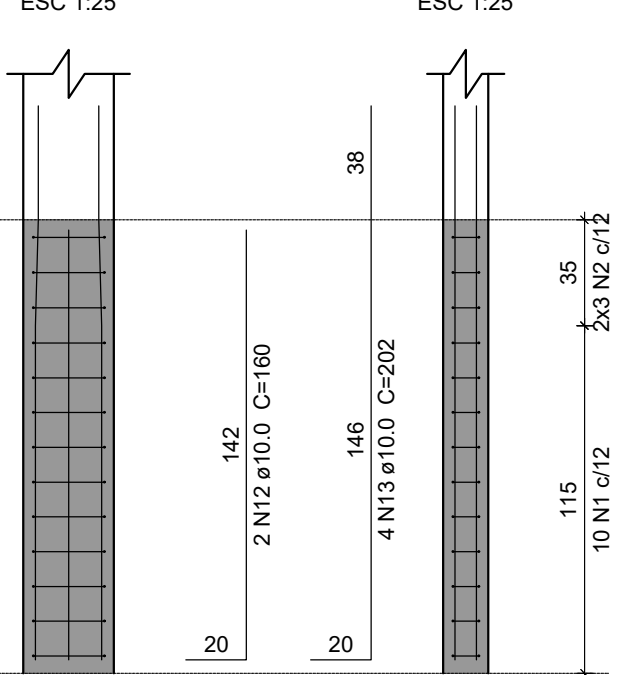
CORTE
ESC 1:25



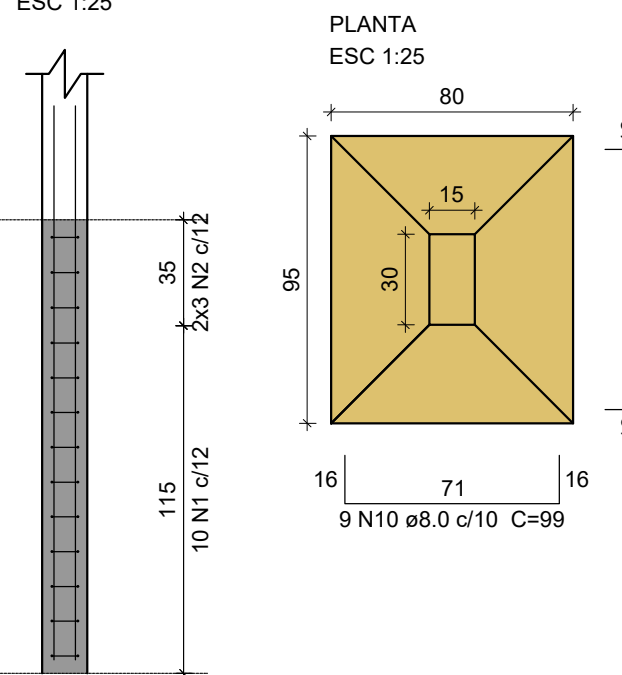
P1=P3



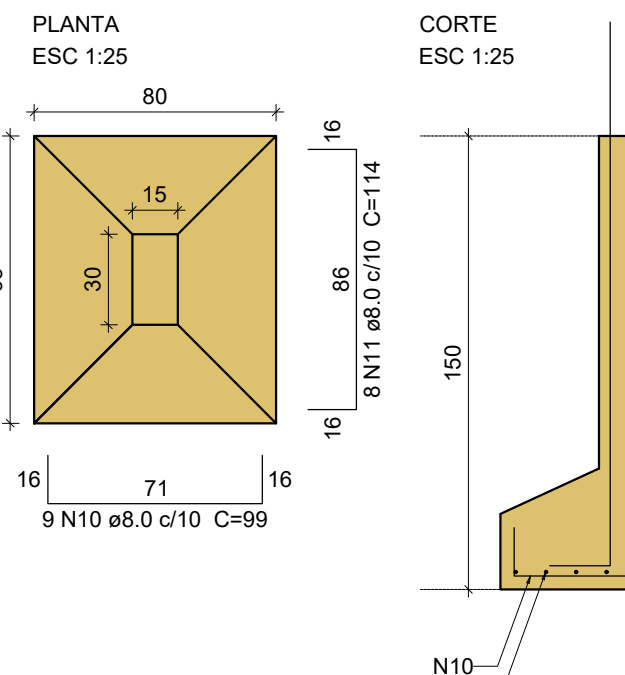
VISTA H
ESC 1:25



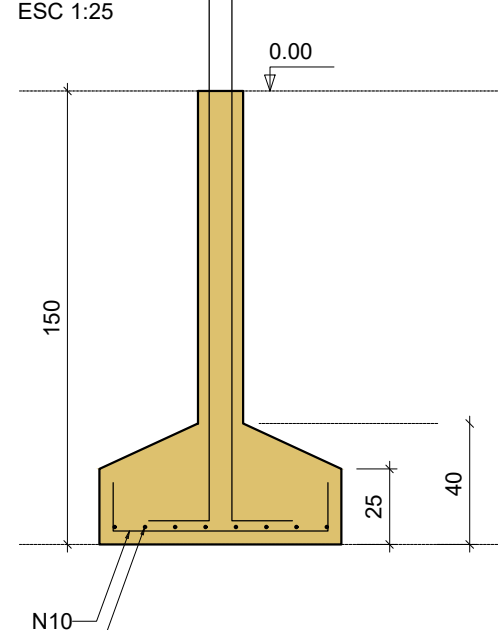
VISTA B
ESC 1:25



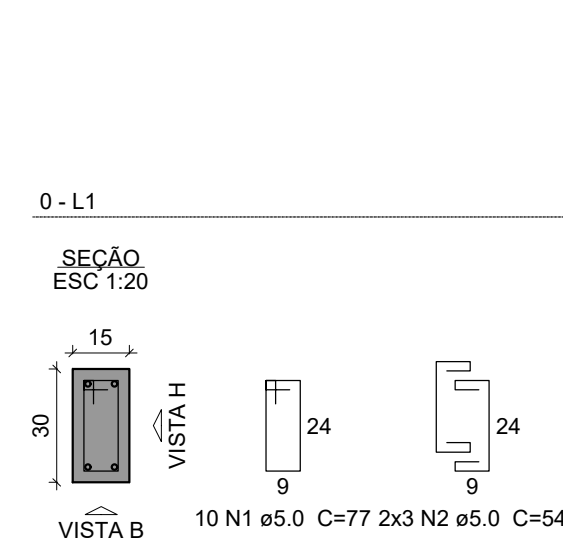
S2
PLANTA
ESC 1:25



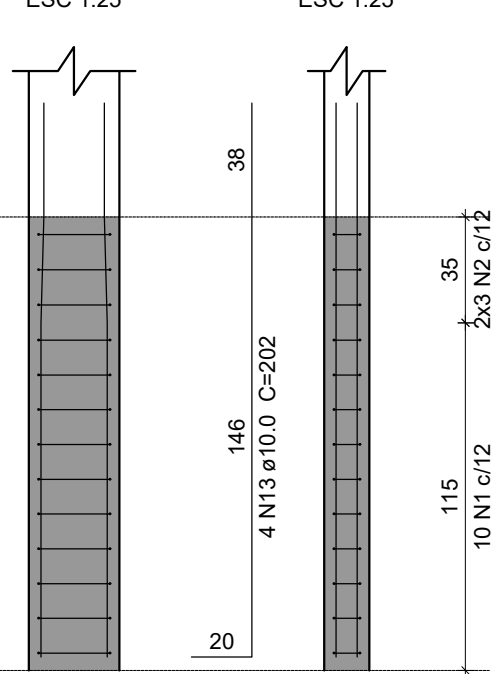
CORTE
ESC 1:25



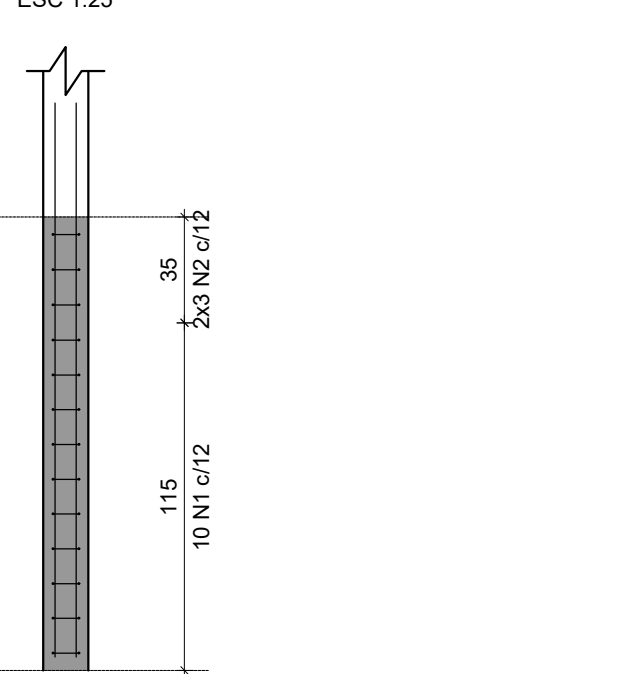
P2



VISTA H
ESC 1:25



VISTA B
ESC 1:25



Relação do aço

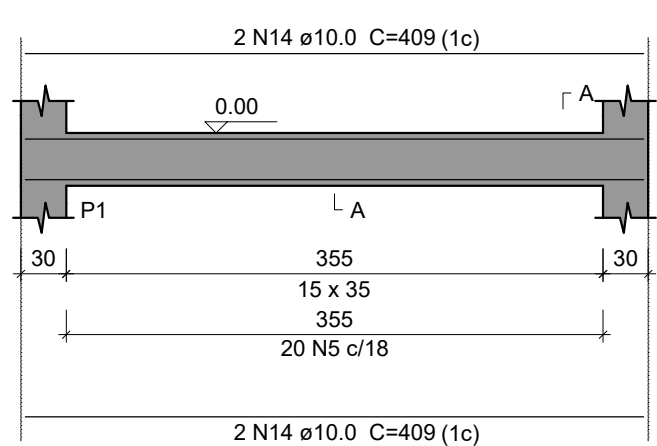
| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA60 | 1 | 5.0 | 101 | 77 | 7777 |
| | 2 | 5.0 | 38 | 54 | 2052 |
| | 3 | 5.0 | 26 | 24 | 624 |
| | 4 | 5.0 | 6 | 365 | 2190 |
| | 5 | 5.0 | 82 | 87 | 7134 |
| CA50 | 6 | 8.0 | 24 | 138 | 3312 |
| | 7 | 8.0 | 22 | 153 | 3366 |
| | 8 | 8.0 | 24 | 94 | 2256 |
| | 9 | 8.0 | 20 | 109 | 2180 |
| | 10 | 8.0 | 9 | 99 | 891 |
| | 11 | 8.0 | 8 | 114 | 912 |
| | 12 | 10.0 | 4 | 160 | 640 |
| | 13 | 10.0 | 12 | 202 | 2424 |
| | 14 | 10.0 | 6 | 409 | 2454 |
| | 15 | 10.0 | 4 | 419 | 1676 |
| | 16 | 10.0 | 2 | 426 | 852 |
| | 17 | 10.0 | 12 | 297 | 3564 |
| | 18 | 10.0 | 4 | 442 | 1768 |

Resumo do aço

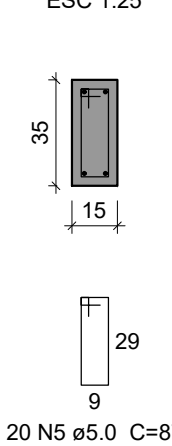
| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|-----------------|-----------|-------------|------------------|
| CA50 | 8.0 | 129.2 | 56.1 |
| CA60 | 10.0 | 133.8 | 90.7 |
| CA60 | 5.0 | 197.8 | 33.5 |
| PESO TOTAL (kg) | | | |
| CA50 | 146.8 | | |
| CA60 | 33.5 | | |

Volume de concreto (C-25) = 2.31 m³
Área de forma = 27.39 m²

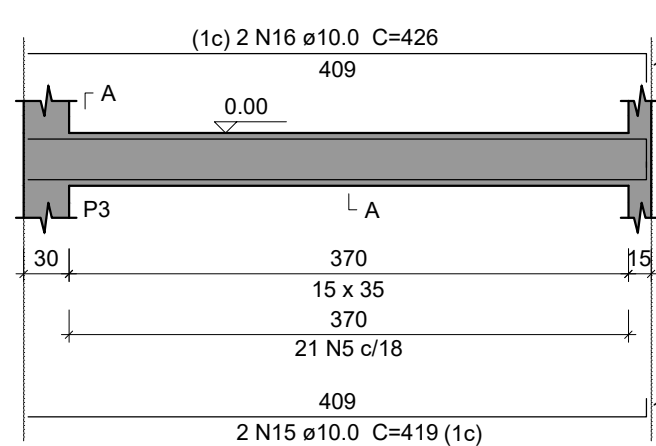
V1
ESC 1:50



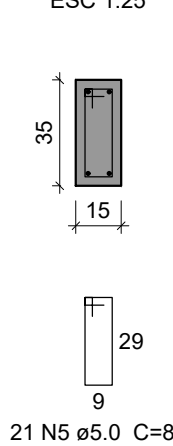
SEÇÃO A-A
ESC 1:25



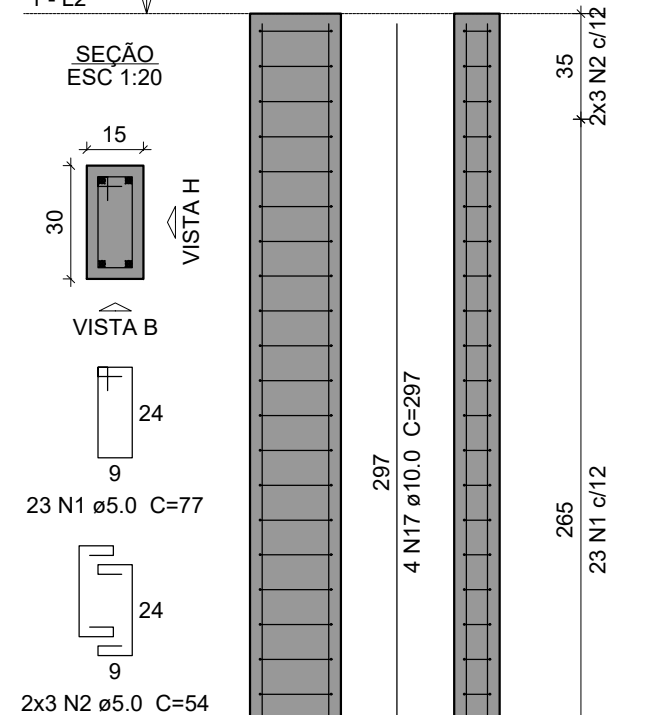
V2
ESC 1:50



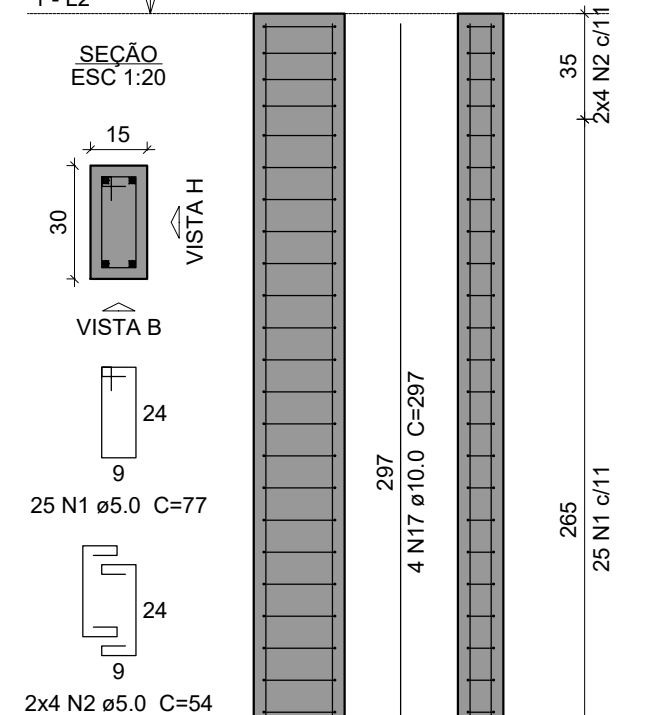
SEÇÃO A-A
ESC 1:25



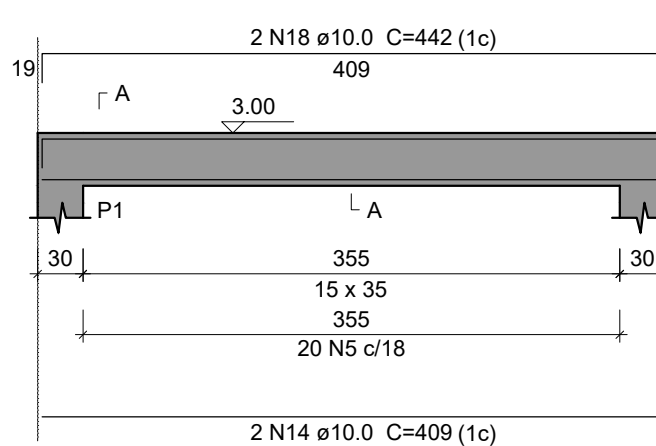
P1=P2



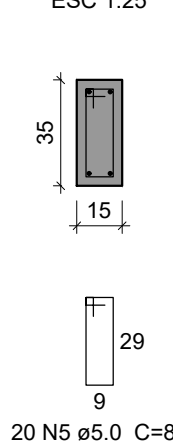
P3



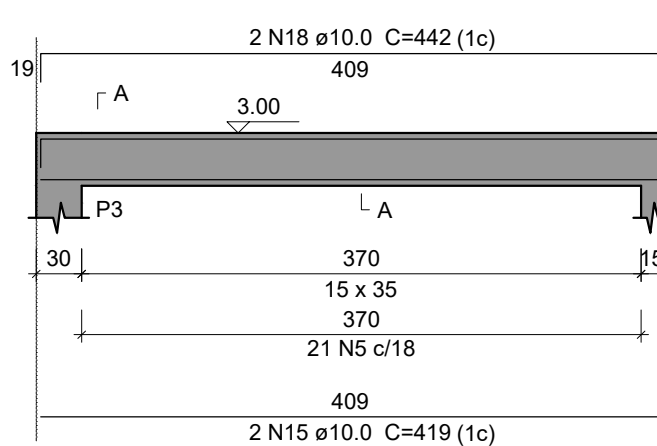
V101
ESC 1:50



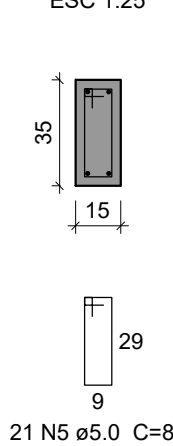
SEÇÃO A-A
ESC 1:25



V102
ESC 1:50



SEÇÃO A-A
ESC 1:25



| | |
|--|---|
| TÍTULO: CONSTRUÇÃO DO CENTRO ESPORTIVO DE ITAIPAVA DO GRAJAU - MA | DATA: NOVEMBRO/25 |
| PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ITAIPAVA DO GRAJAU-MA | AUTOR: CYNTHIA FARIAS CREA Nº 111854214-2 |
| ENDEREÇO: ITAIPAVA DO GRAJAU - MA | ESCALA: INDICADA |
| DISCRIMINAÇÃO: PROJETO ESTRUTURAL - CANTEIRO | FORMATO: A-1 |
| | Nº PRANCHA: 01/01 |