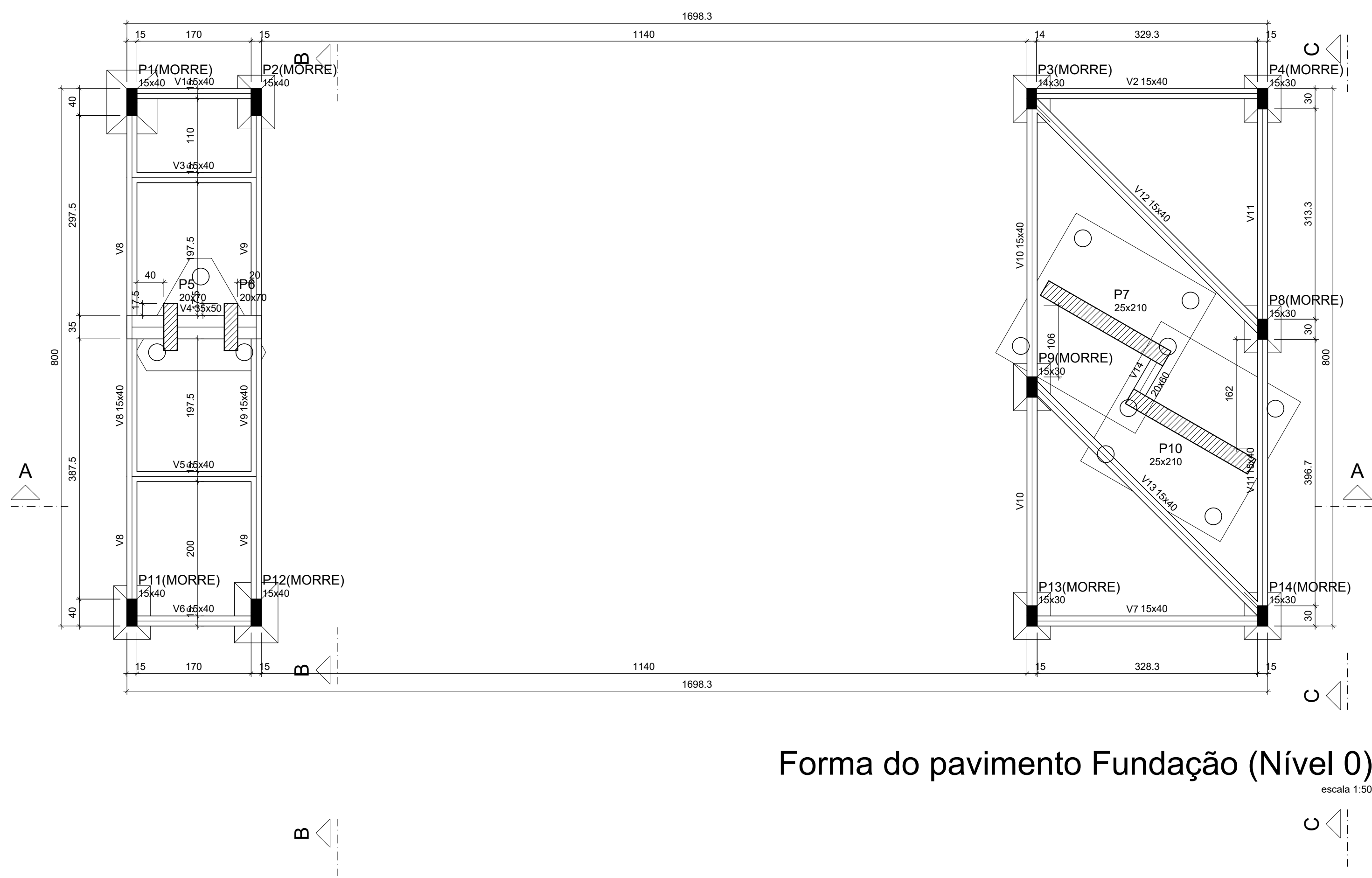


Planta de locação
escala 1:50



Forma do pavimento Fundação (Nível 0)
escala 1:50

| Vigas | | | |
|-------|-------|---------------|------------|
| Nome | Seção | Elevação (cm) | Nível (cm) |
| V1 | 15x40 | 0 | 0 |
| V2 | 15x40 | 0 | 0 |
| V3 | 15x40 | 0 | 0 |
| V4 | 35x50 | 0 | 0 |
| V5 | 15x40 | 0 | 0 |
| V6 | 15x40 | 0 | 0 |
| V7 | 15x40 | 0 | 0 |
| V8 | 15x40 | 0 | 0 |
| V9 | 15x40 | 0 | 0 |
| V10 | 15x40 | 0 | 0 |
| V11 | 15x40 | 0 | 0 |
| V12 | 15x40 | 0 | 0 |
| V13 | 15x40 | 0 | 0 |
| V14 | 20x60 | 0 | 0 |

| Características dos materiais | | | |
|-------------------------------|-------|--|--|
| fck | Ecs | | |
| 300 | 28334 | | |

| Pilares | | | |
|---------|--------|---------------|------------|
| Nome | Seção | Elevação (cm) | Nível (cm) |
| P1 | 15x40 | 0 | 0 |
| P2 | 15x40 | 0 | 0 |
| P3 | 14x30 | 0 | 0 |
| P4 | 15x30 | 0 | 0 |
| P5 | 20x70 | 0 | 0 |
| P6 | 20x70 | 0 | 0 |
| P7 | 25x210 | 0 | 0 |
| P8 | 15x30 | 0 | 0 |
| P9 | 15x30 | 0 | 0 |
| P10 | 25x210 | 0 | 0 |
| P11 | 15x40 | 0 | 0 |
| P12 | 15x40 | 0 | 0 |
| P13 | 15x30 | 0 | 0 |
| P14 | 15x30 | 0 | 0 |

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

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

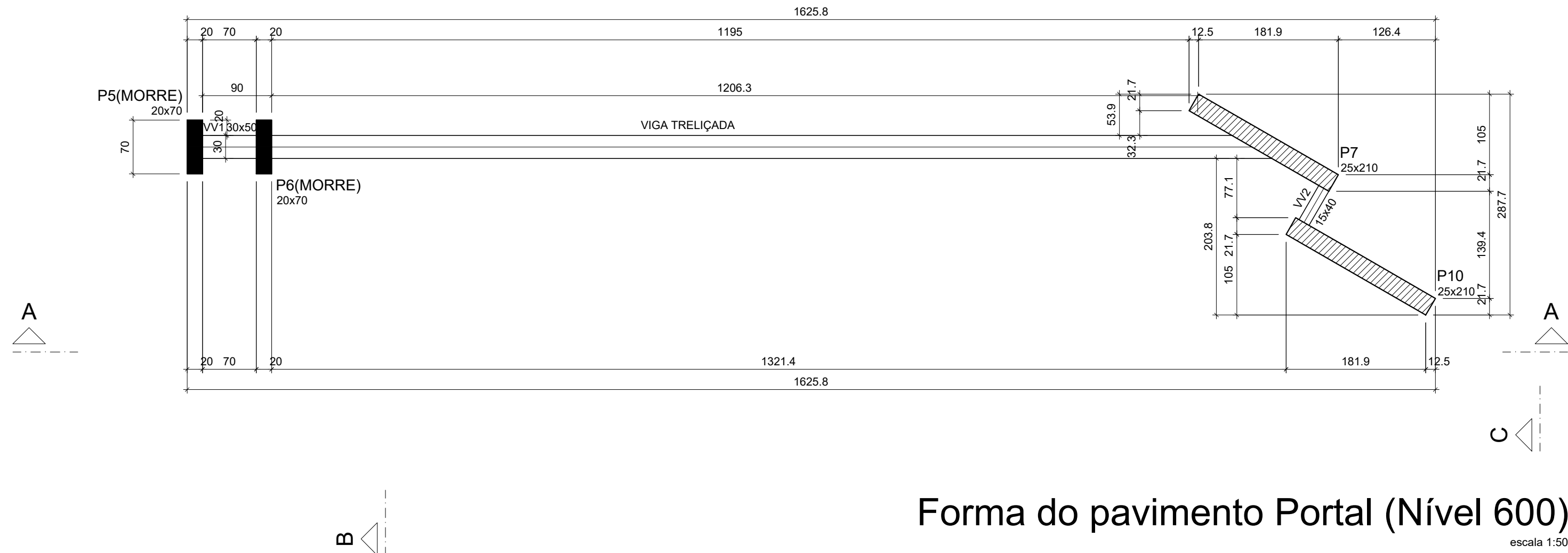
| Vigas | | | |
|-------|----------|---------------|------------|
| Nome | Seção | Elevação (cm) | Nível (cm) |
| VM1 | CE300x76 | 0 | 600 |
| VV1 | 30x50 | 0 | 600 |
| VV2 | 15x40 | 0 | 600 |

| Características dos materiais | | | |
|-------------------------------|-------|--|--|
| fck | Ecs | | |
| 300 | 28334 | | |

| Pilares | | | |
|---------|--------|---------------|------------|
| Nome | Seção | Elevação (cm) | Nível (cm) |
| P5 | 20x70 | 0 | 600 |
| P6 | 20x70 | 0 | 600 |
| P7 | 25x210 | 0 | 600 |
| P10 | 25x210 | 0 | 600 |

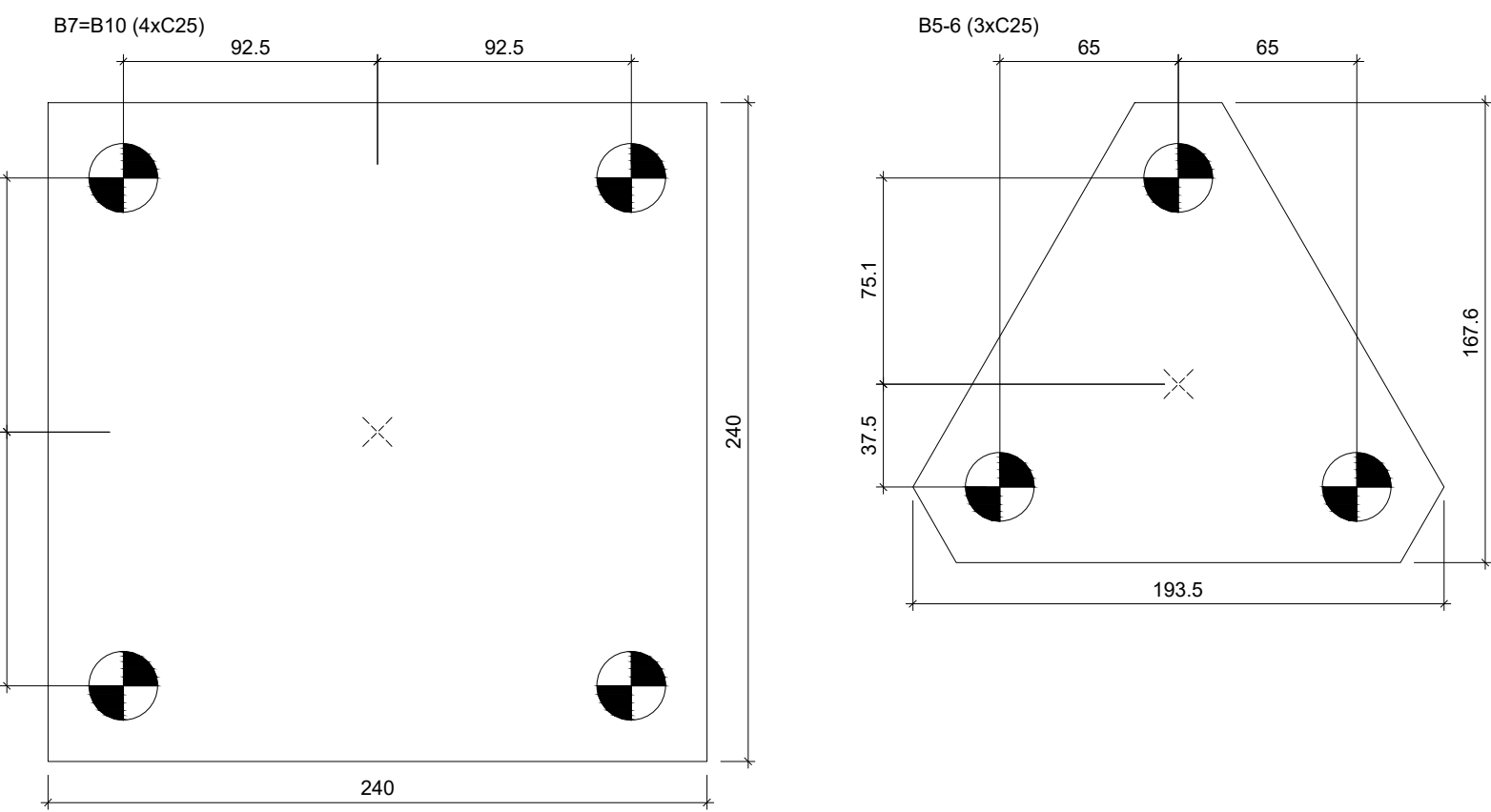
| Legenda dos pilares | |
|---------------------|-----------------|
| | Pilar que morre |
| | Pilar que passa |

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



Forma do pavimento Portal (Nível 600)
escala 1:50

Legenda dos blocos
escala 1:25

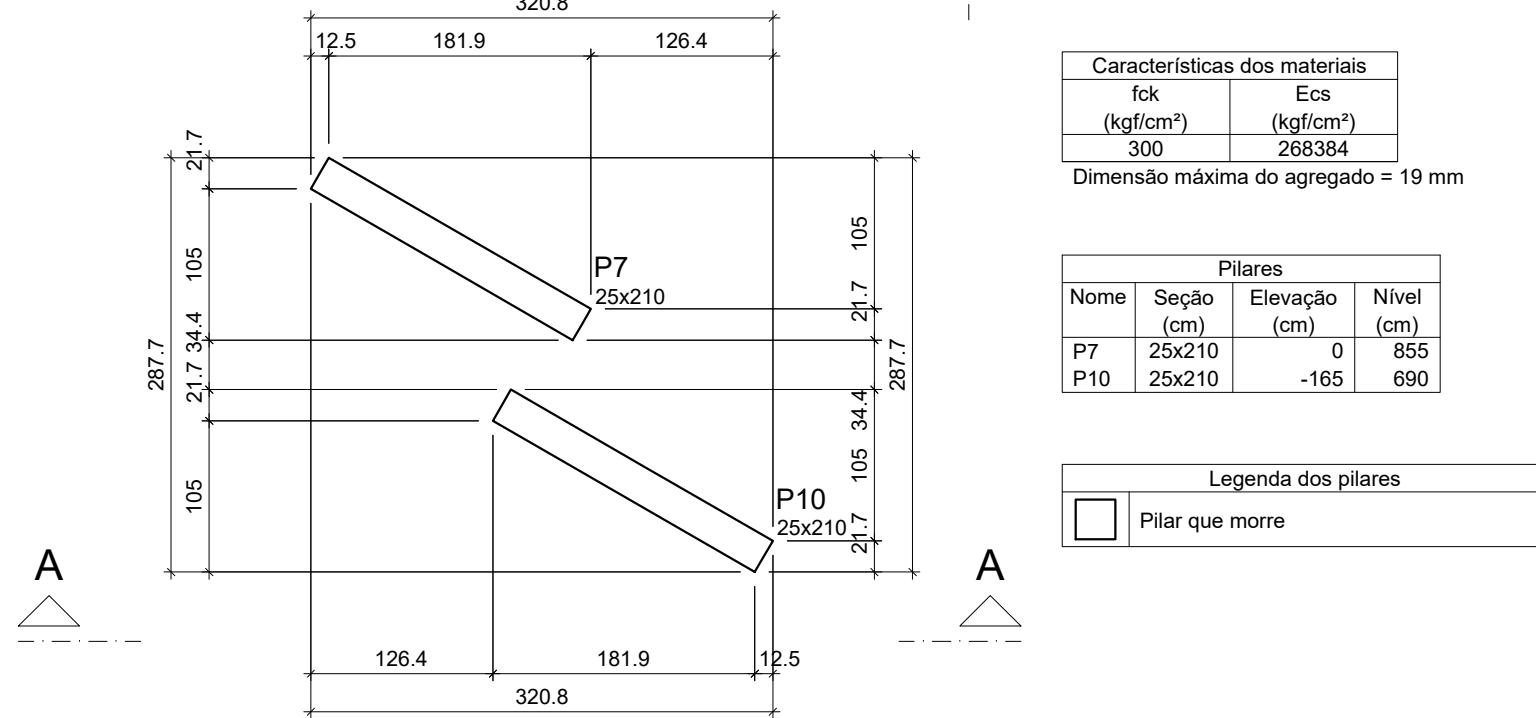


| Pilar | | Fundação | | Bloco | |
|-------|--------|----------|--------|-----------------|-----------------|
| Nome | Seção | X (cm) | Y (cm) | Carga Máx. (tf) | Carga Mín. (tf) |
| P7 | 25x210 | 1457.18 | 450.58 | 38.1 | -11.3 |
| P10 | 25x210 | 1563.62 | 289.53 | 38.1 | -10.2 |
| P5+P6 | 20x70 | 110.00 | 445.00 | 13.1 | 0.5 |
| P1 | 15x40 | 7.50 | 780.00 | 2.1 | -0.5 |
| P2 | 15x40 | 110.00 | 780.00 | 4.5 | -2.5 |
| P3 | 14x30 | 1347.00 | 780.00 | 1.6 | -1.4 |
| P4 | 15x30 | 1690.80 | 780.00 | 1.0 | -0.8 |
| P8 | 15x30 | 1690.80 | 441.70 | 1.7 | -1.6 |
| P9 | 15x30 | 1347.00 | 441.70 | 1.7 | -1.6 |
| P11 | 15x40 | 142.50 | 20.00 | 3.4 | -1.5 |
| P12 | 15x40 | 142.50 | 20.00 | 1.0 | -0.2 |
| P13 | 15x30 | 1347.00 | 15.00 | 1.0 | -0.5 |
| P14 | 15x30 | 1690.80 | 15.00 | 1.6 | -1.4 |

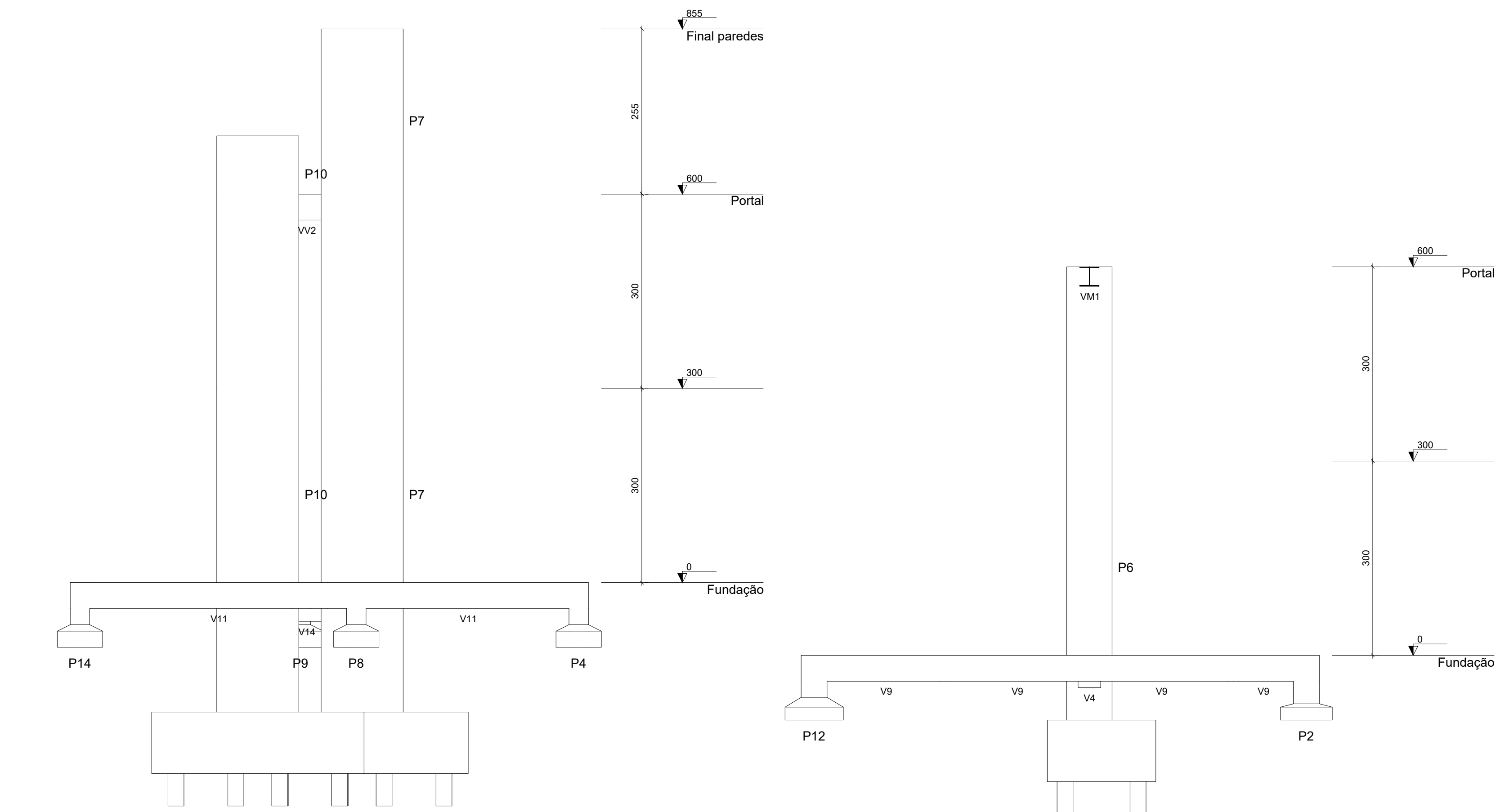
Os esforços indicados nesta tabela são os valores máximos obtidos por envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

| Localização no eixo X | |
|-----------------------|---------------|
| Coordenadas (cm) | Nome |
| 7.50 | P1, P11 |
| 110.00 | P5+P6, P1, P2 |
| 1457.18 | P7 |
| 1563.62 | P10 |
| 1690.80 | P4, P8, P14 |

| Localização no eixo Y | |
|-----------------------|-----------|
| Coordenadas (cm) | Nome |
| 780.00 | P1, P4 |
| 441.70 | P5+P6, P8 |
| 289.53 | P10 |
| 15.00 | P13, P14 |



Forma do pavimento Final paredes (Nível 855)
escala 1:50

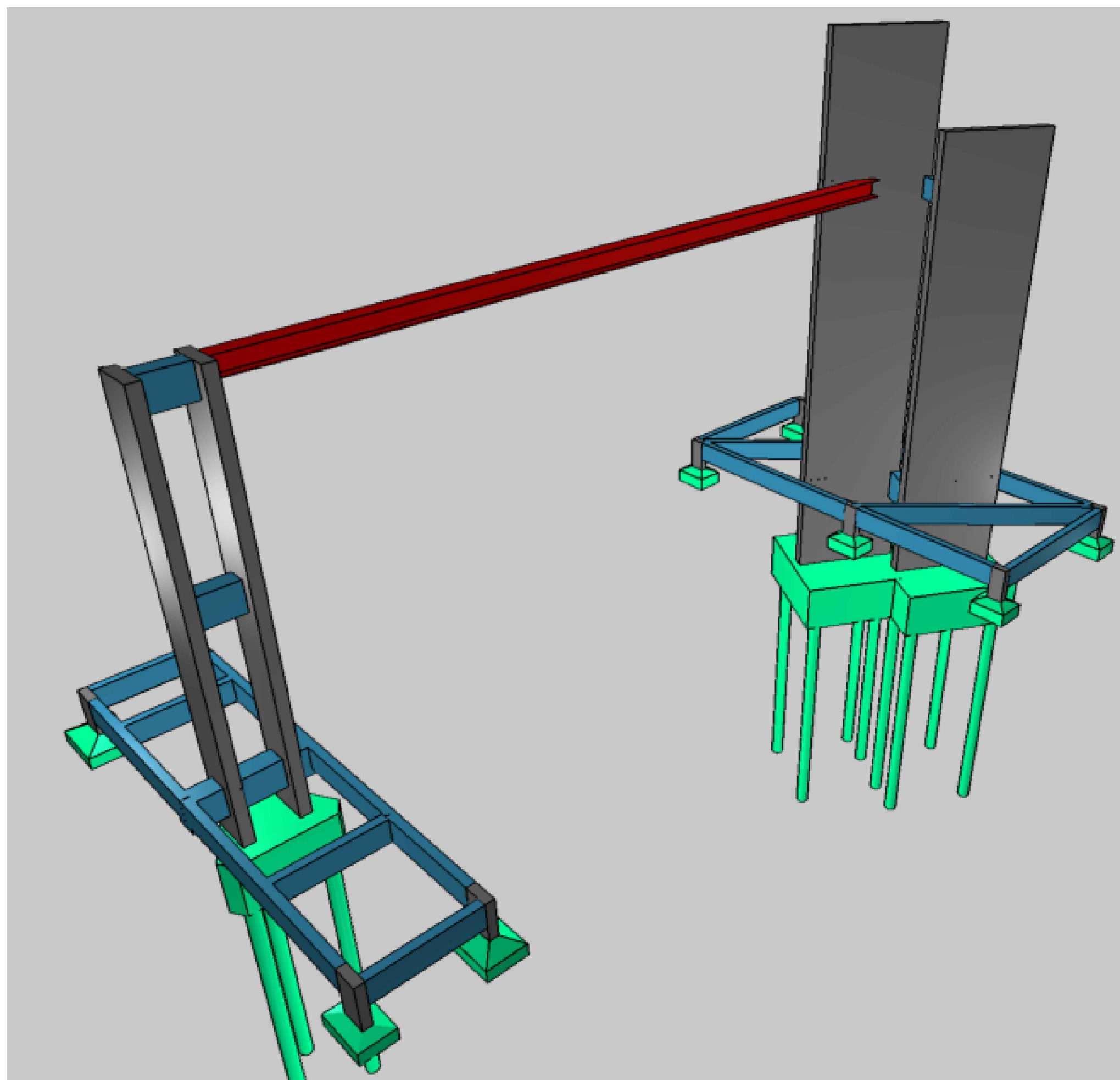
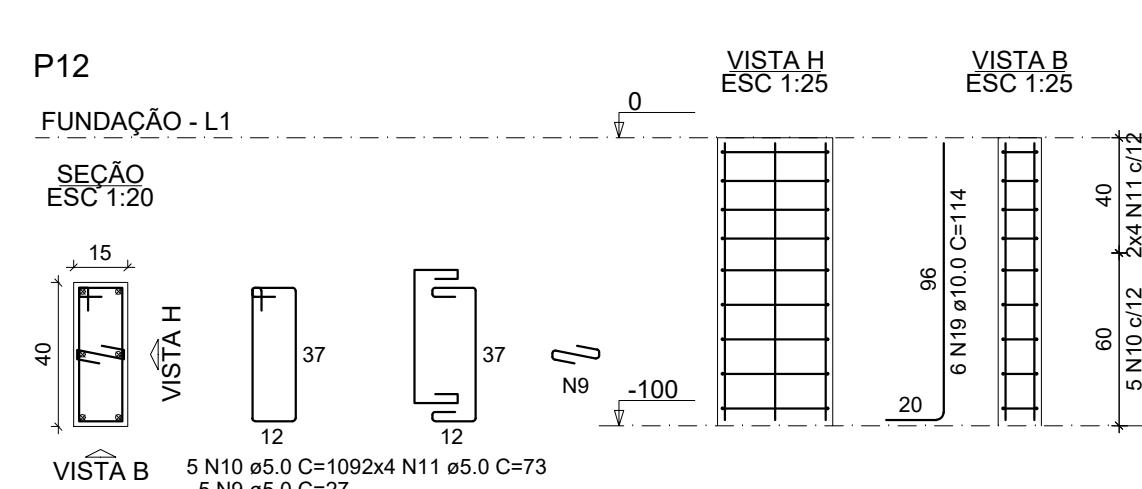
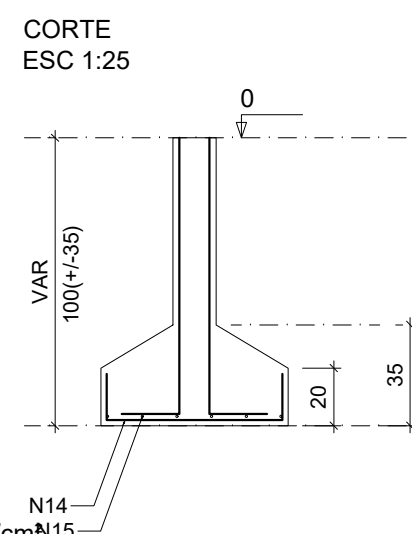
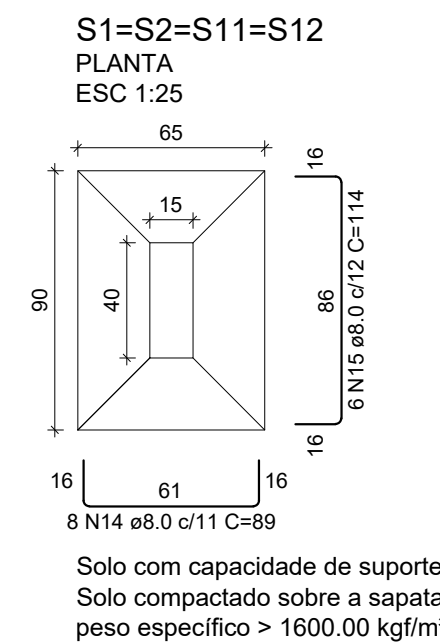
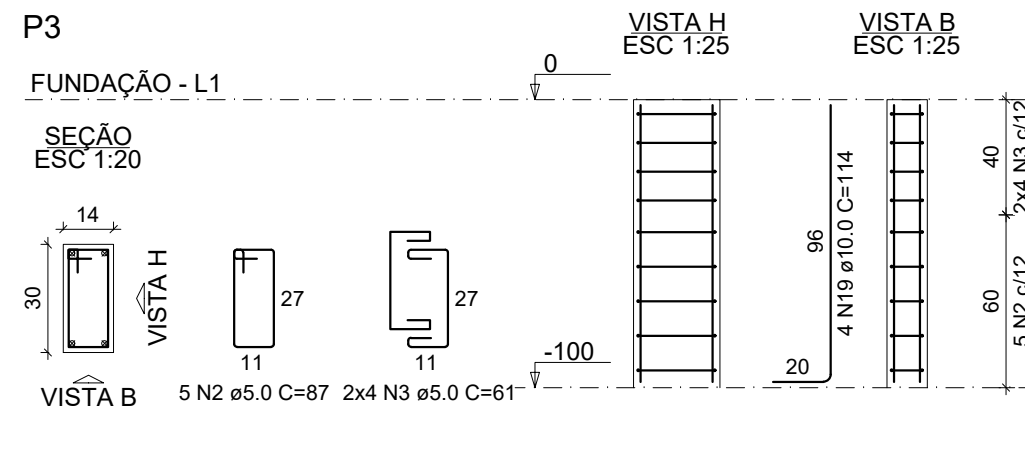
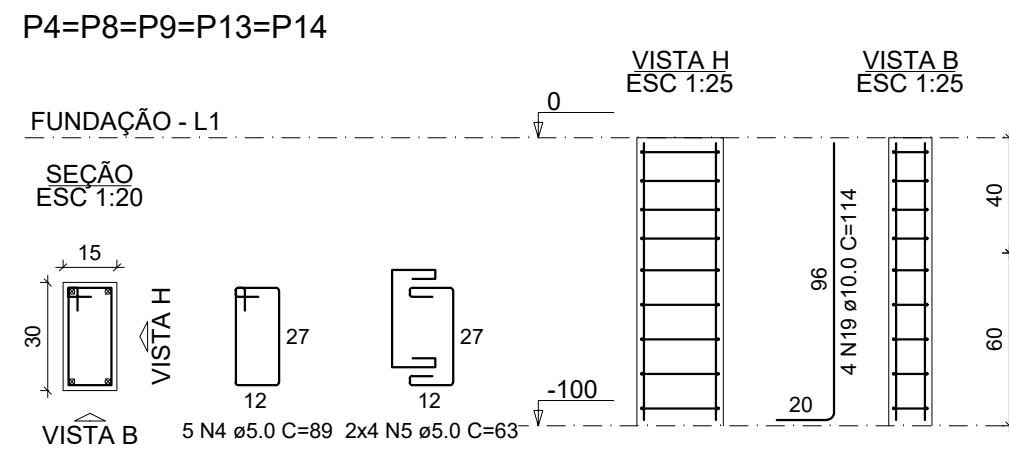
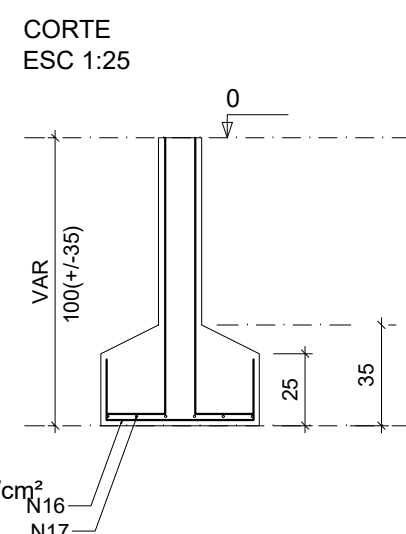
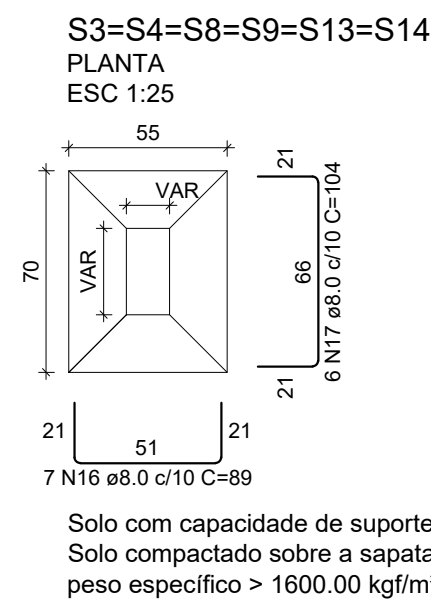


Forma intermediária do pavimento Portal (Nível 300)
escala 1:50

Corte C-C
escala 1:50

Corte B-B
escala 1:50

| PORTAL DE ENTRADA DE IPUAÇU - SC - ESTRUTURAL | | | |
|---|--|-----------------------------------|--|
| Proprietário: PREFEITURA DE IPUAÇU | | Referência: LOCAÇÃO FORMAS CORTES | |
| Obra: PORTAL DE ENTRADA DA CIDADE | | | |
| Endereço: RODOVIA SC 480 | | | |
| Responsável Técnico Projeto: | | Proprietário: | |
| Desenho: ANC ENGENHARIA | | Prancha: | |
| Data: 24/10/2022 | | Escala: INDICADA | |
| ANC Engenharia | | 01 | |
| MAR NUNES DE ALMEIDA | | 03 | |
| CREA PR - 189110/D | | | |
| Projeto e execução | | | |



RELAÇÃO DO AÇO

| ACAO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CASO | 1 | 5.0 | 48 | 290 | 13920 |
| CASO | 2 | 5.0 | 5 | 87 | 435 |
| CASO | 4 | 5.0 | 25 | 89 | 2225 |
| CASO | 6 | 5.0 | 301 | 37 | 11137 |
| CASO | 7 | 5.0 | 33 | 465 | 15477 |
| CASO | 8 | 5.0 | 20 | 263 | 5260 |
| CASO | 9 | 5.0 | 9 | 27 | 243 |
| CASO | 10 | 5.0 | 5 | 109 | 545 |
| CASO | 11 | 5.0 | 6 | 73 | 438 |
| CASO | 12 | 8.0 | 10 | 936 | 9360 |
| CASO | 13 | 8.0 | 46 | 243 | 11058 |
| CASO | 14 | 8.0 | 8 | 89 | 712 |
| CASO | 15 | 8.0 | 6 | 114 | 684 |
| CASO | 16 | 8.0 | 42 | 88 | 3738 |
| CASO | 17 | 8.0 | 36 | 104 | 3744 |
| CASO | 18 | 10.0 | 28 | VAR | 3420 |
| CASO | 19 | 10.0 | 30 | 114 | 3420 |
| CASO | 20 | 12.5 | 36 | 335 | 12060 |

RESUMO DO AÇO

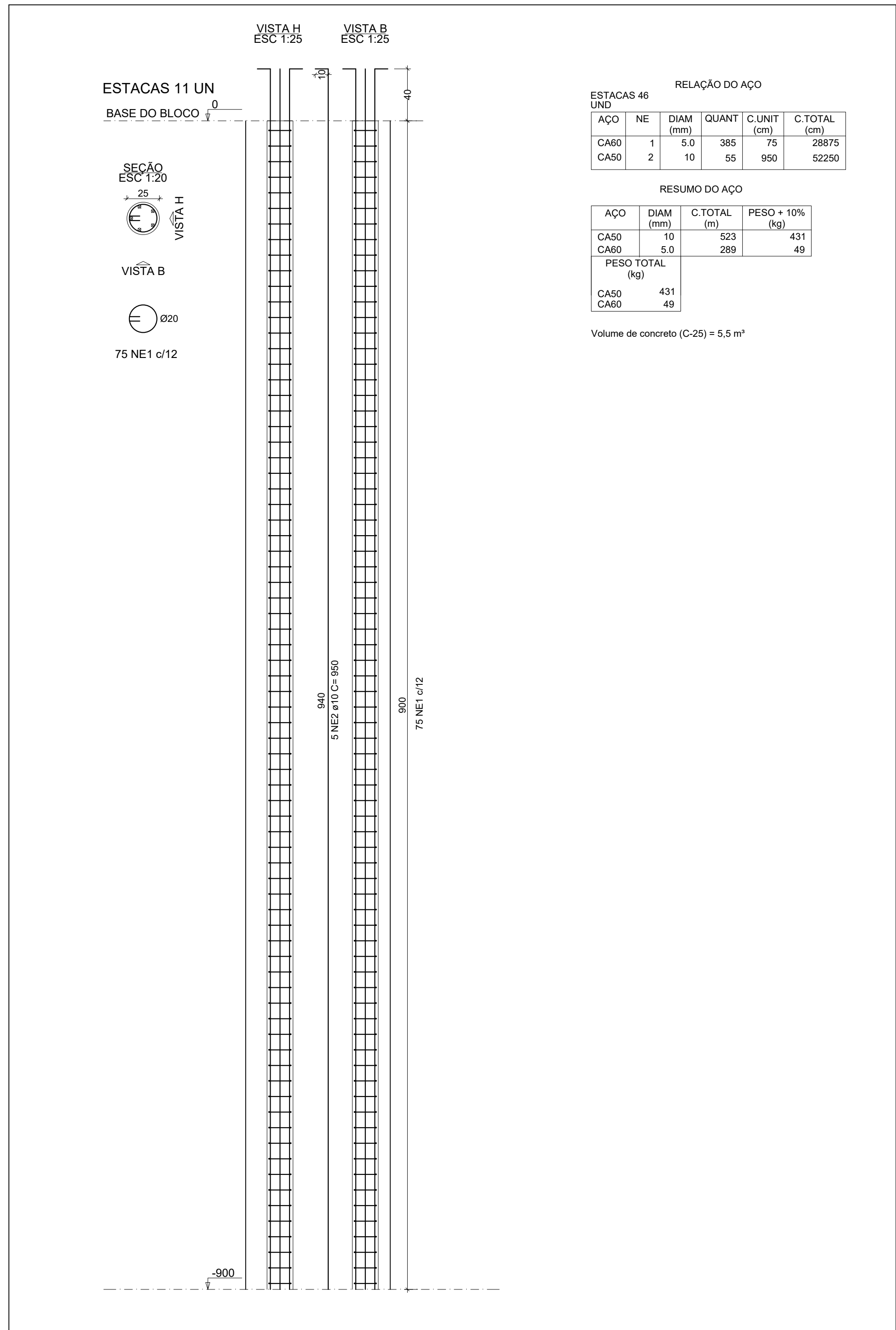
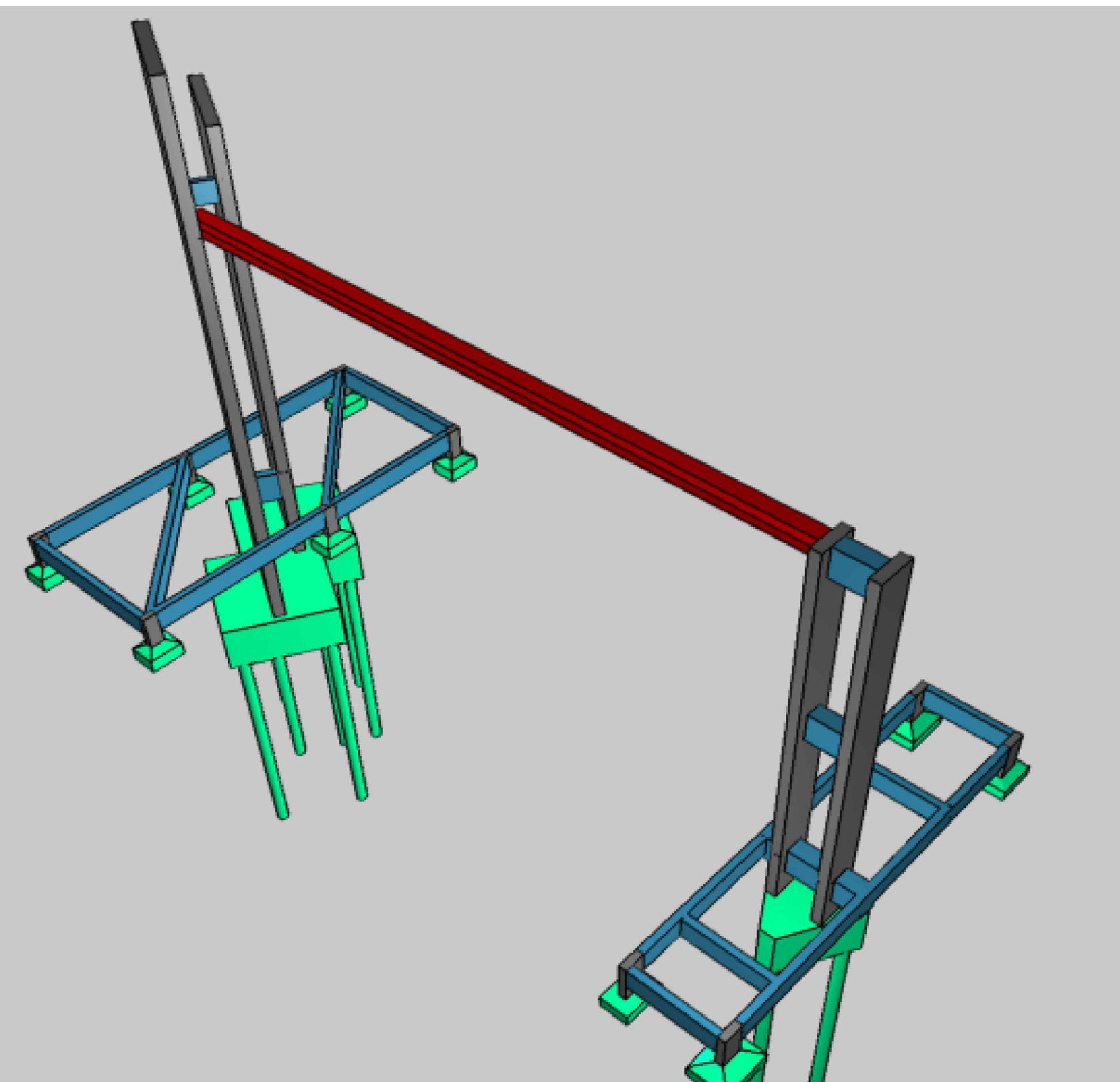
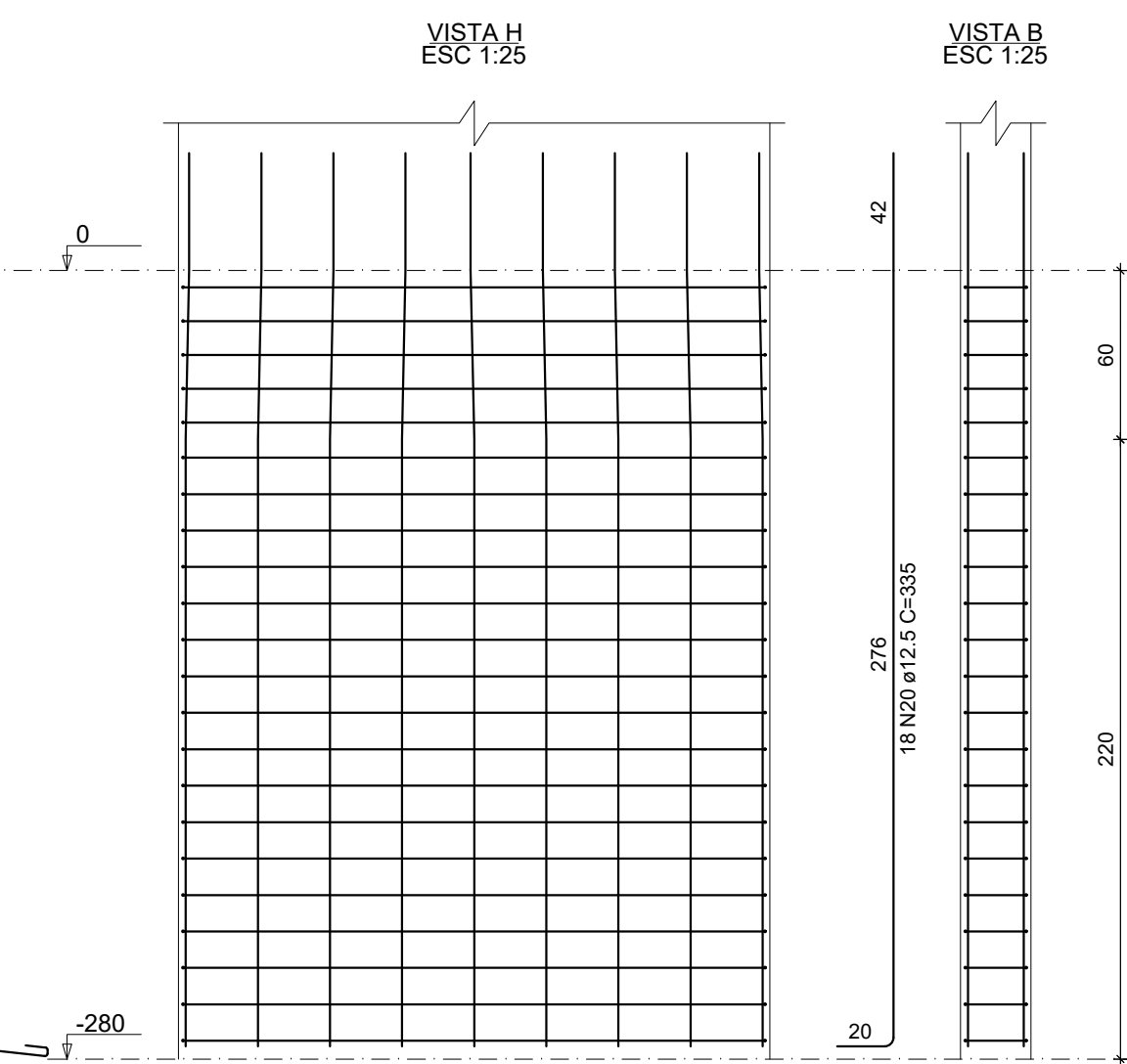
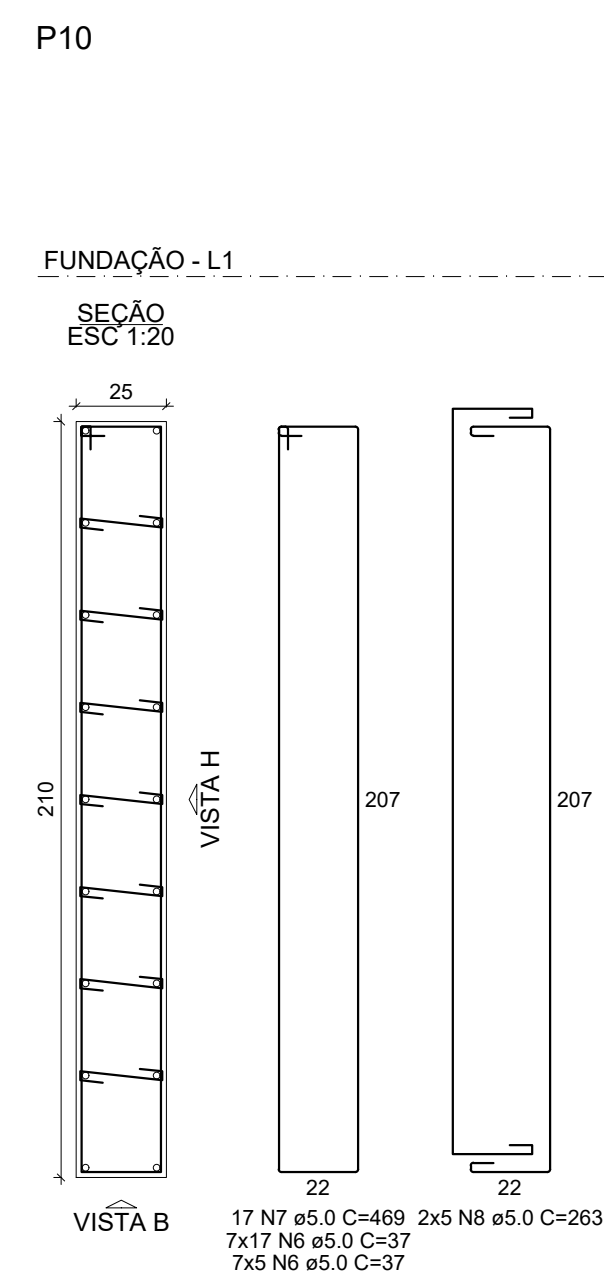
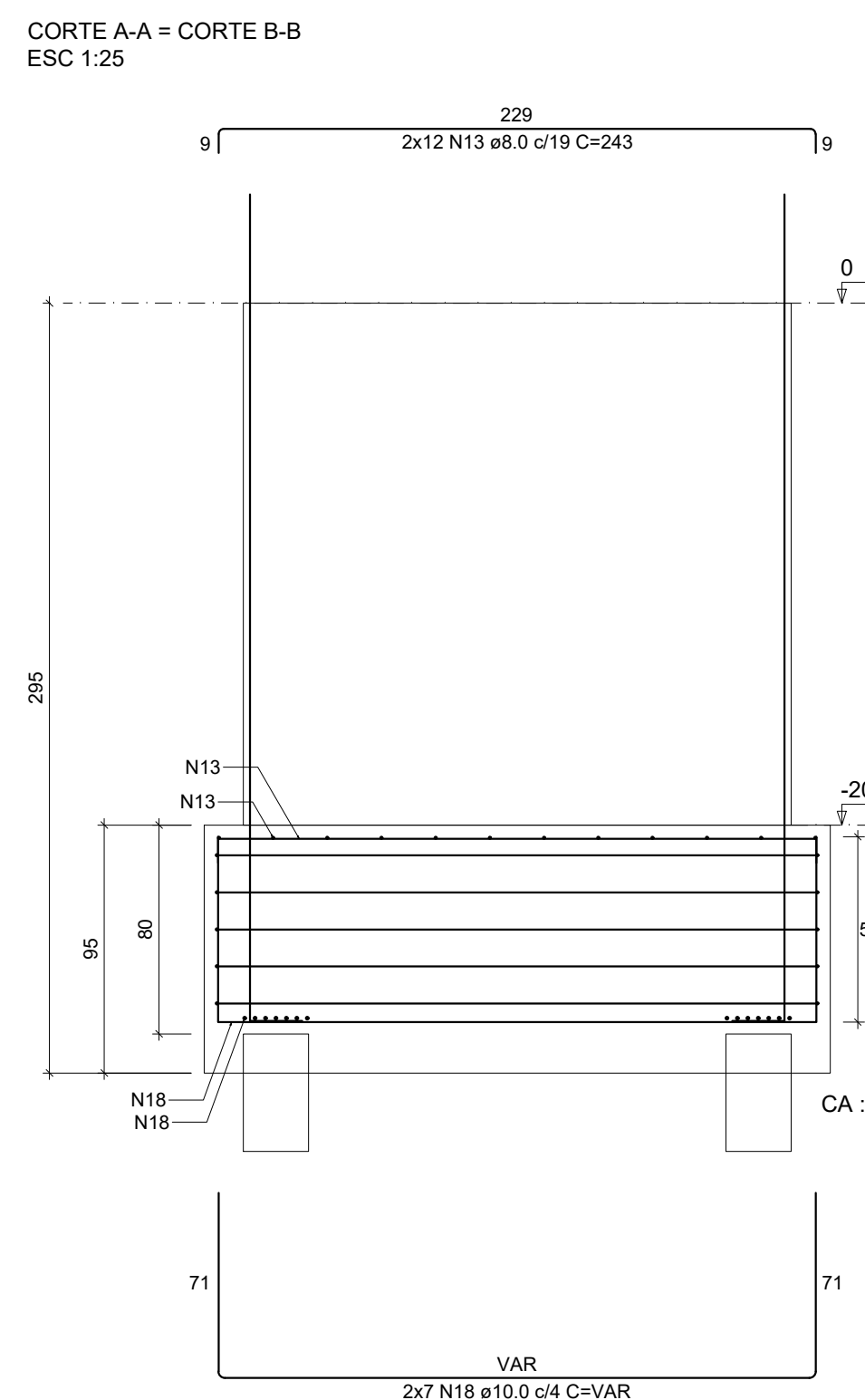
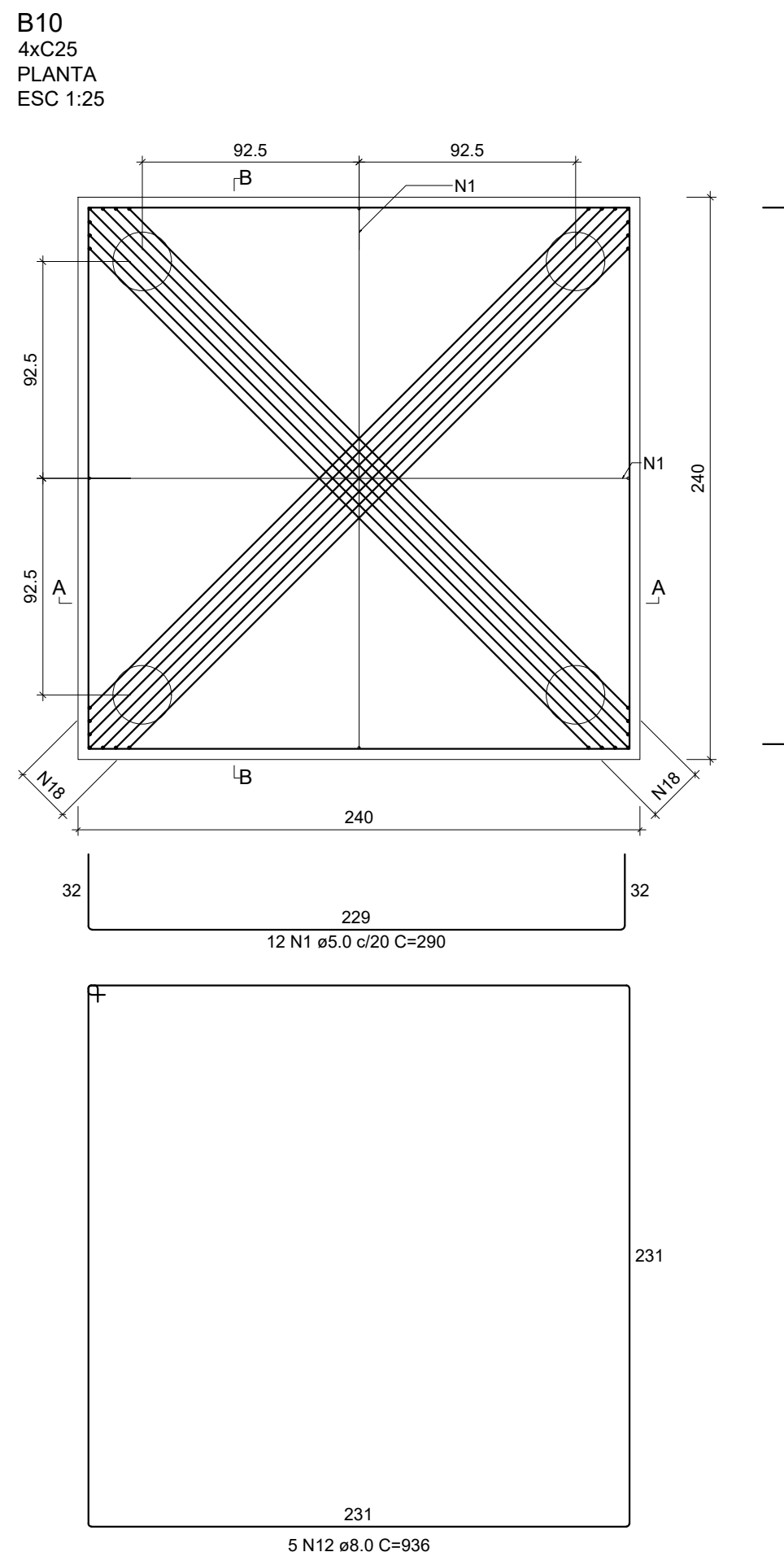
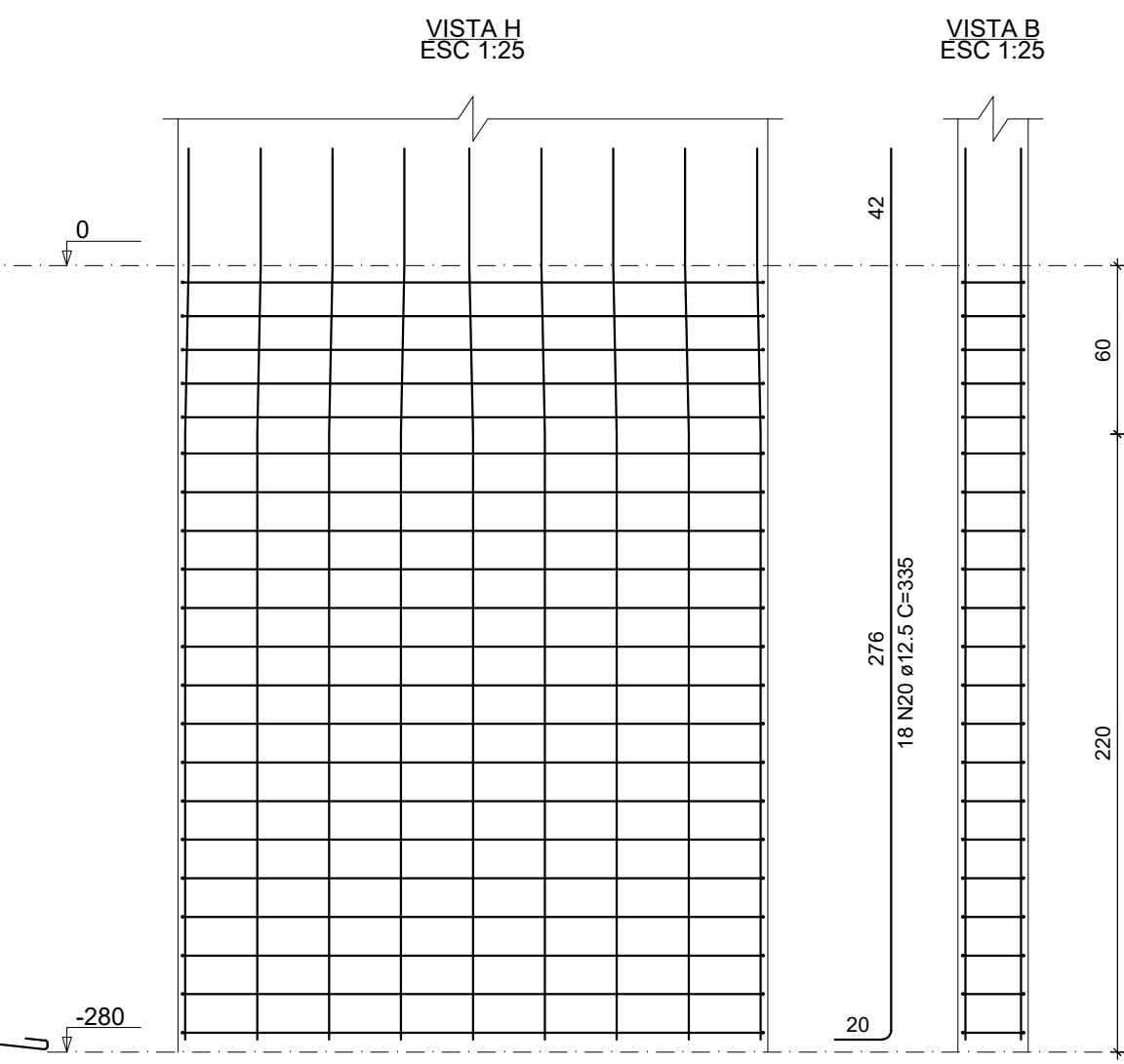
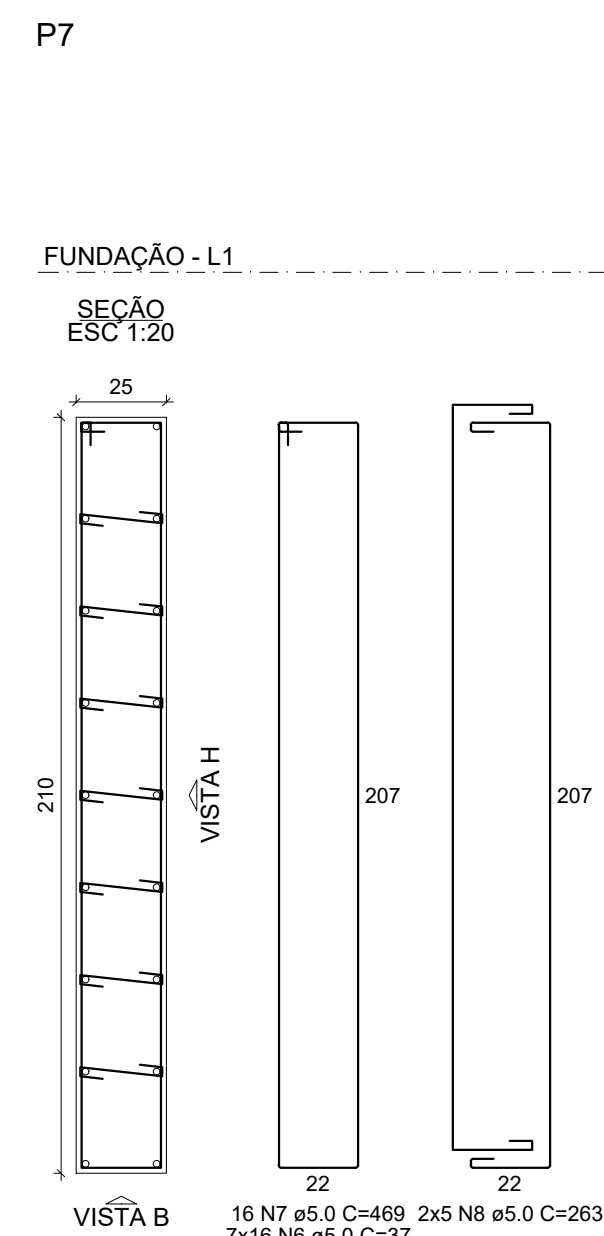
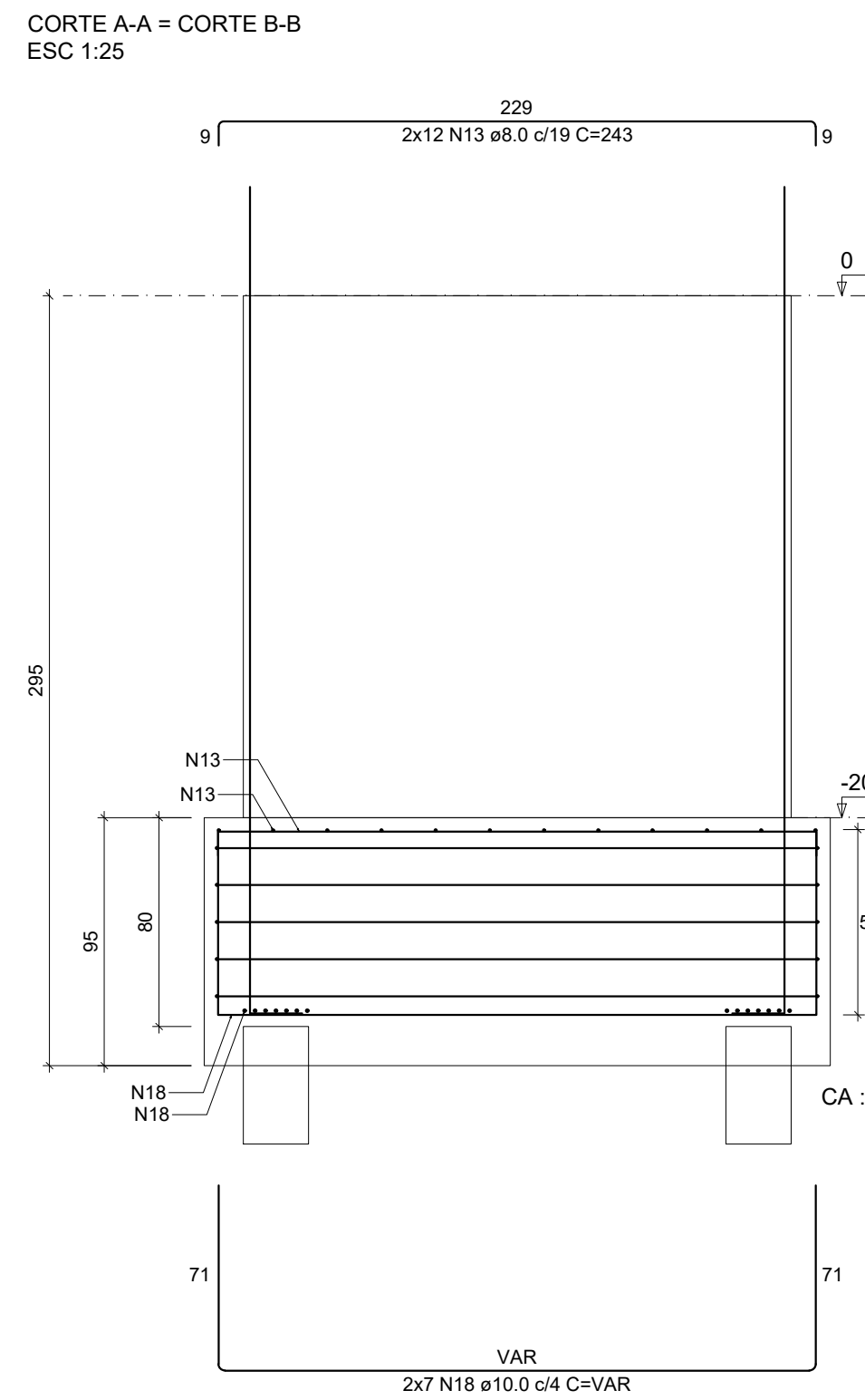
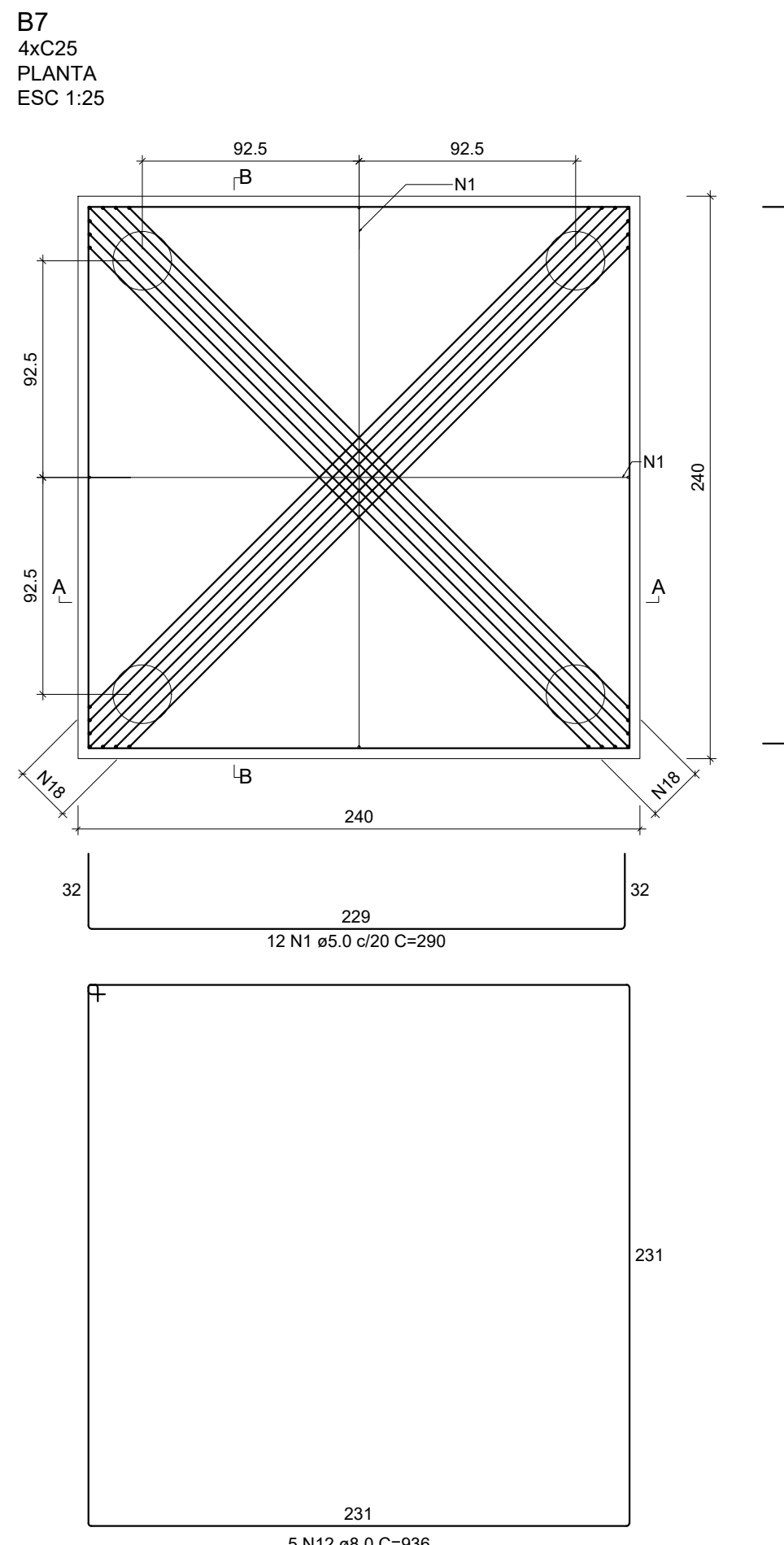
| ACAO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|------|-----------|-------------|-----------------|
| CASO | 8.0 | 299 | 129.8 |
| CASO | 10.0 | 138.7 | 92.7 |
| CASO | 12.5 | 126.6 | 127.8 |
| CASO | 5.0 | 528.3 | 89.6 |

PESO TOTAL (kg) 350.3

CASO 89.6

Volume de concreto (C-30) = 14.05 m³

Área de forma = 55.41 m²



PORTAL DE ENTRADA DE IPUAÇU - SC - ESTRUTURAL

Proprietário: PREFEITURA DE IPUAÇU

Obra: PORTAL DE ENTRADA DA CIDADE

Endereço: RODOVIA SC 480

Responsável Técnico Projeto: MAR NUNES DE ALMEIDA
CREA PR - 189110/D
Projeto e execução

Proprietário: PREFEITURA DE IPUAÇU - SC

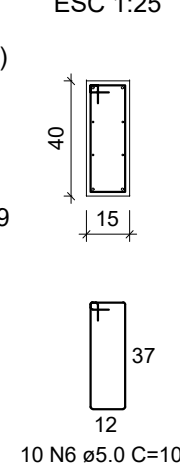
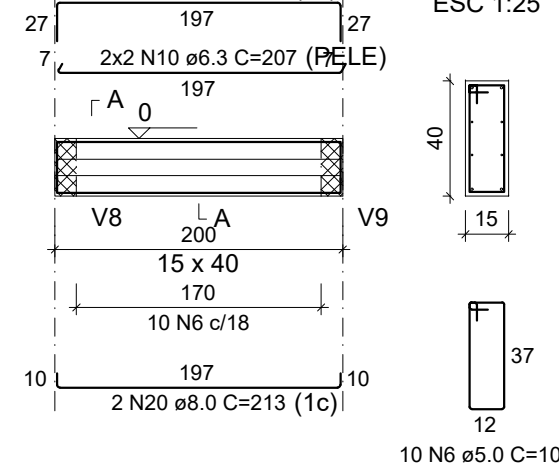
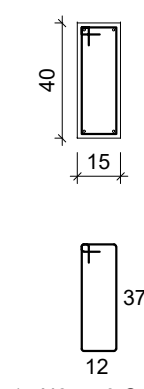
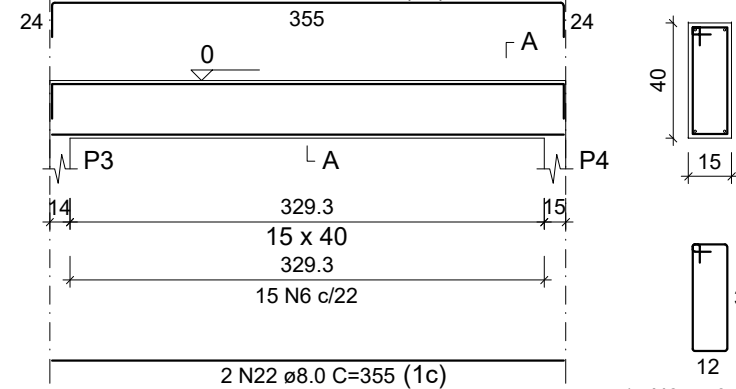
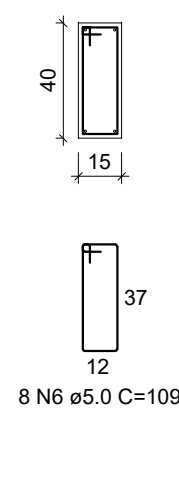
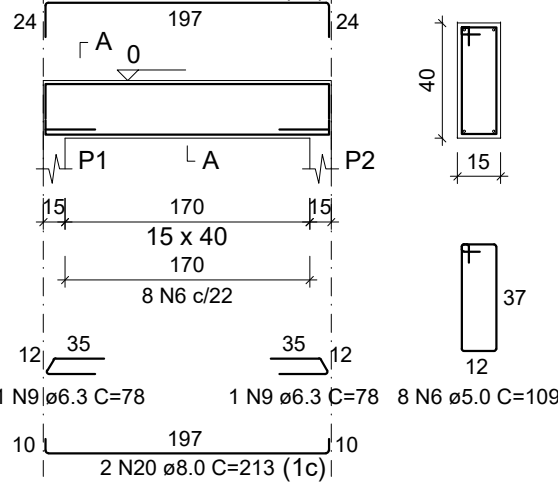
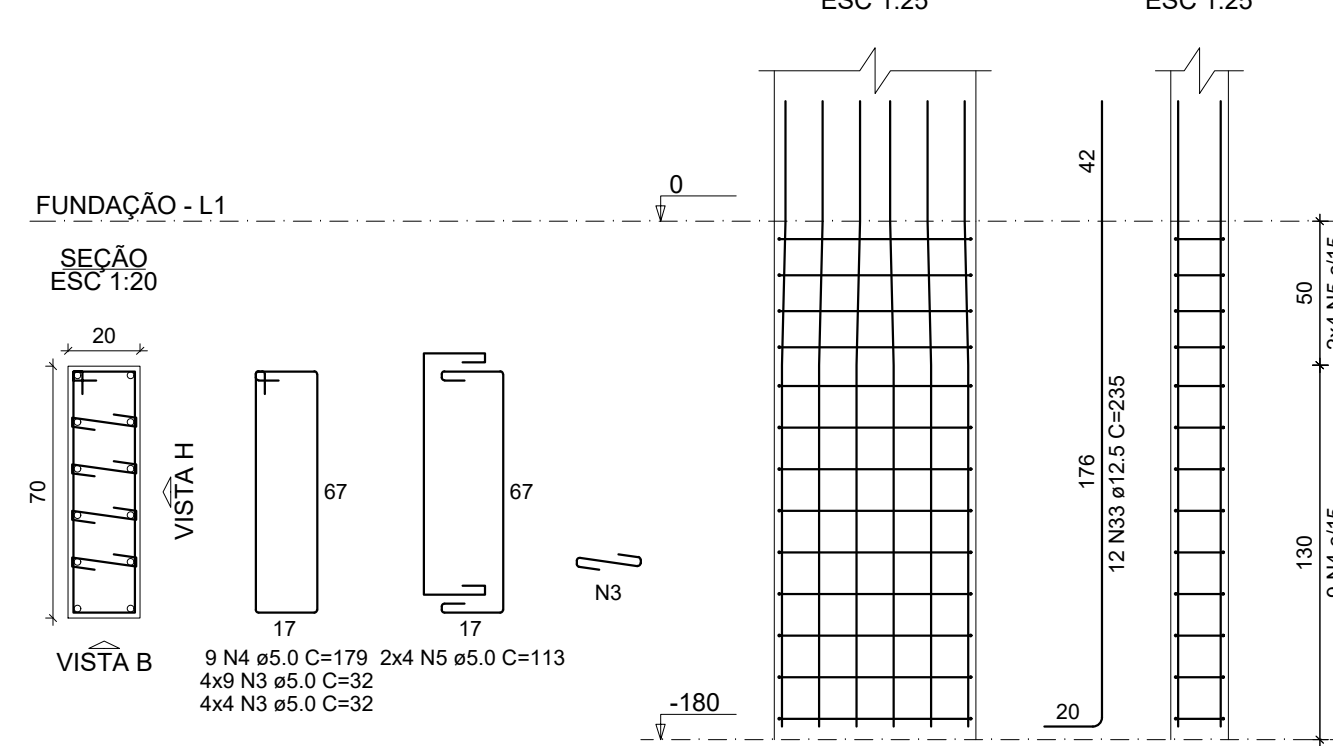
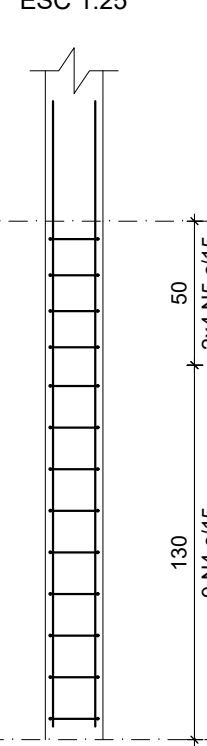
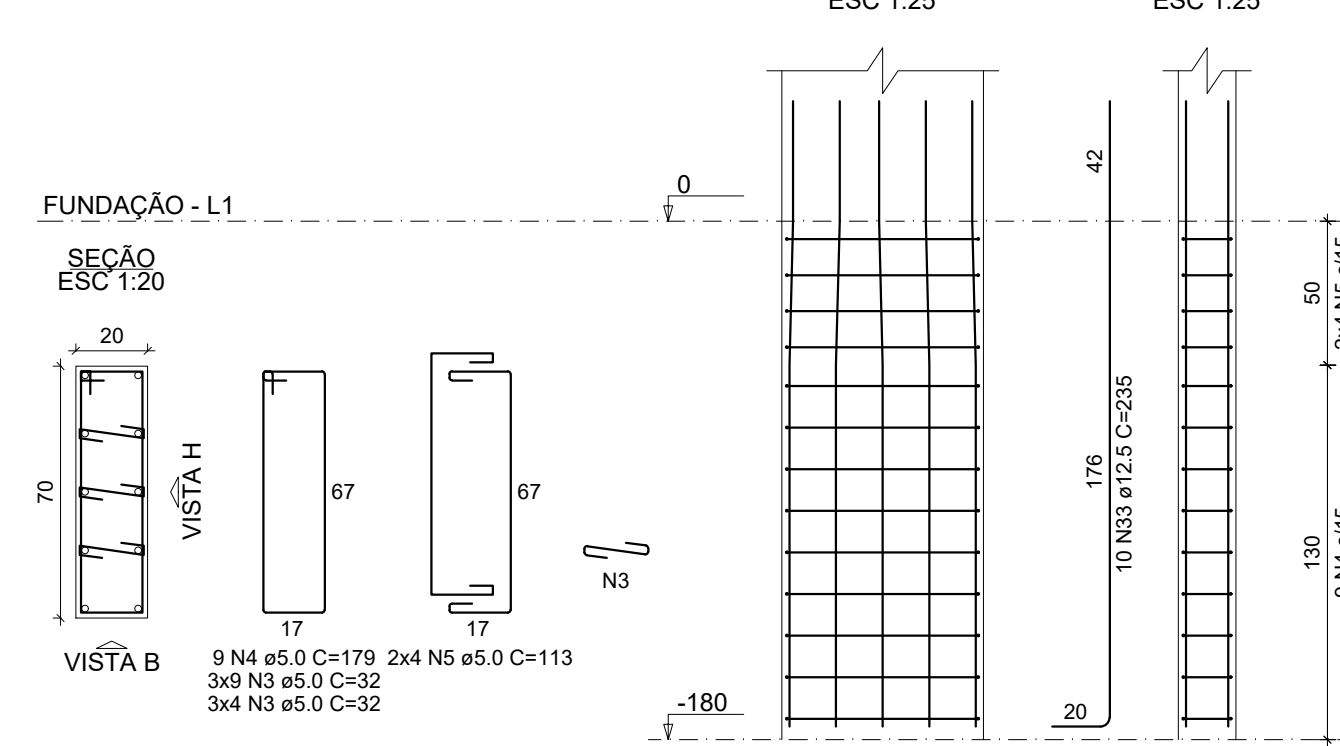
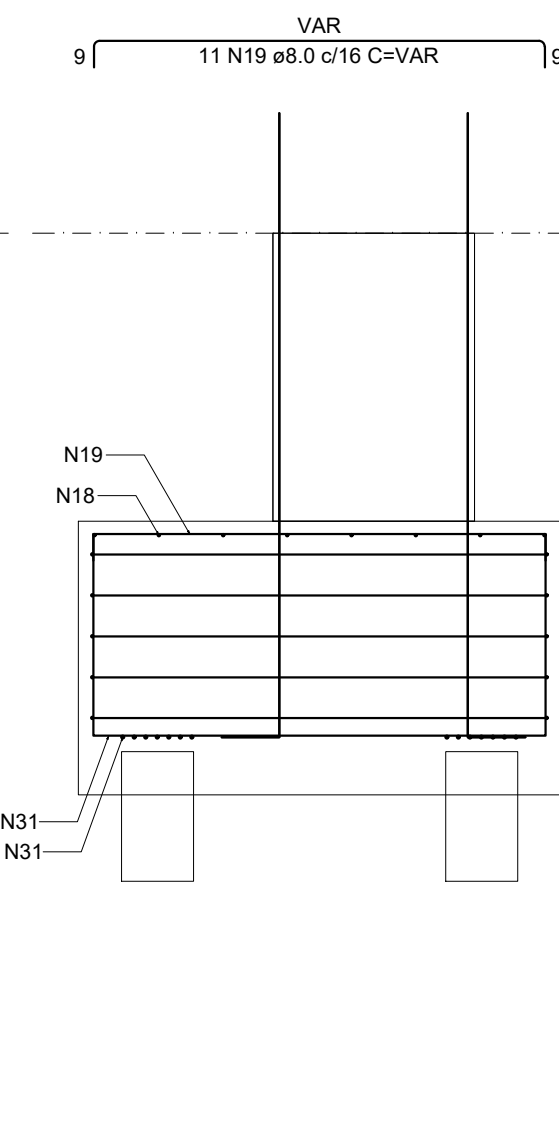
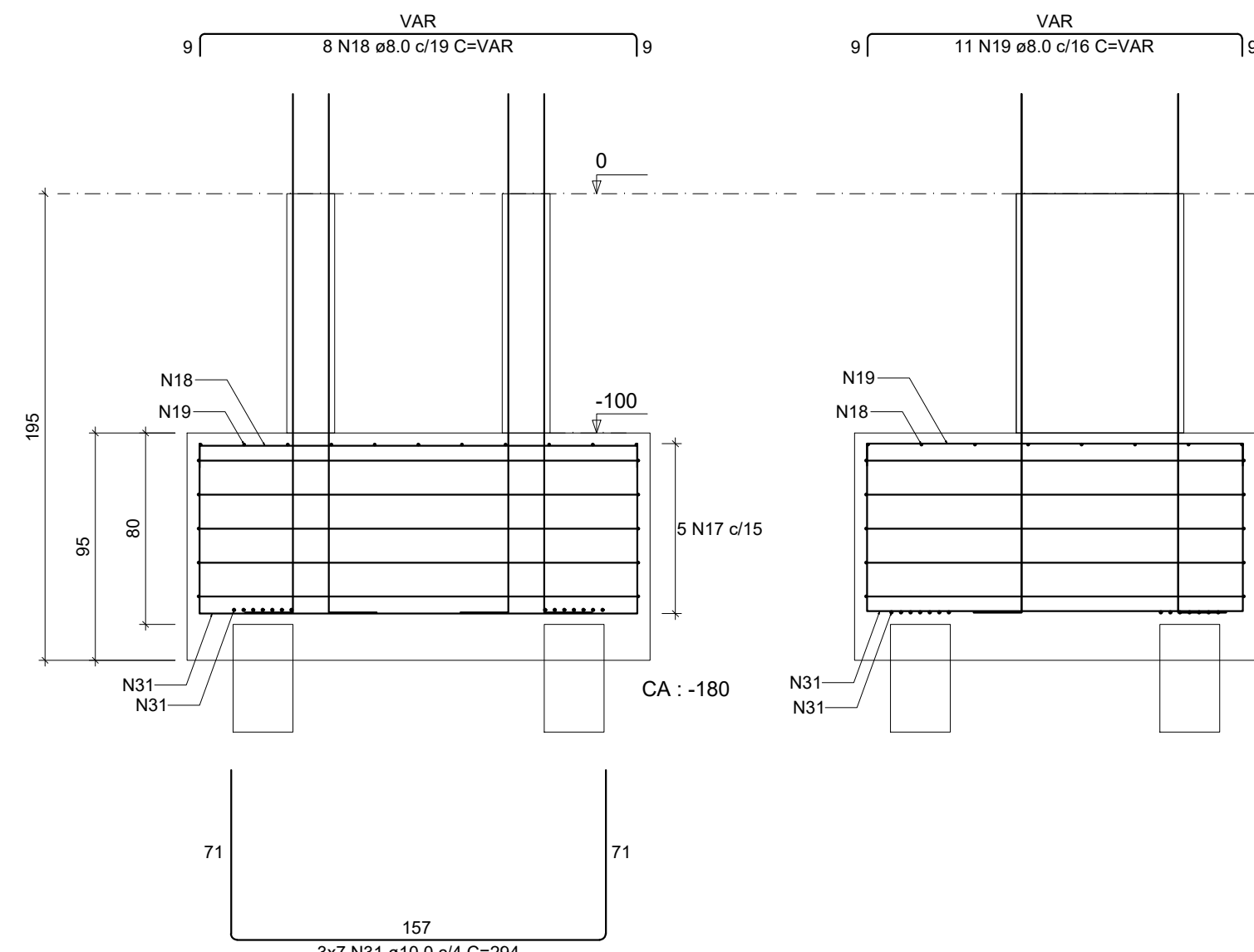
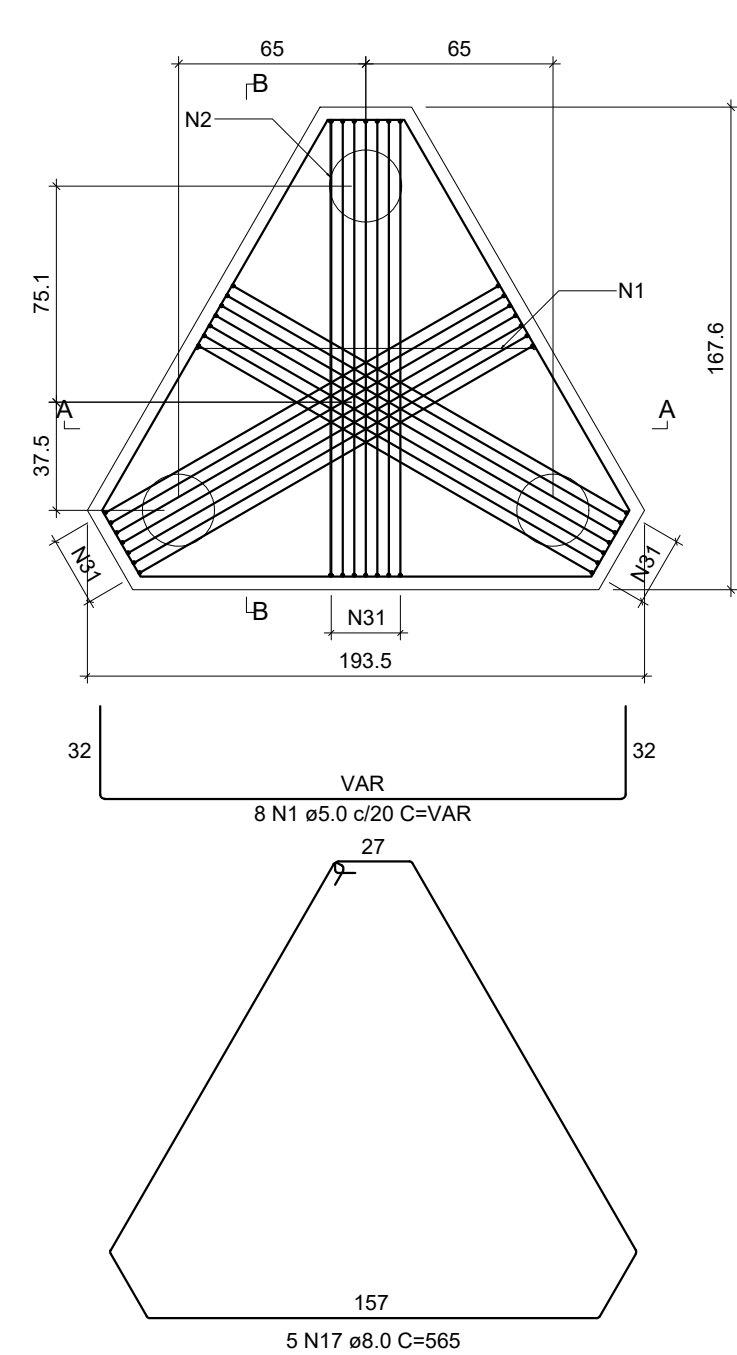
Desenho: ANC ENGENHARIA

Data: 24/10/2022

Escala: INDICADA

Prancha: 02

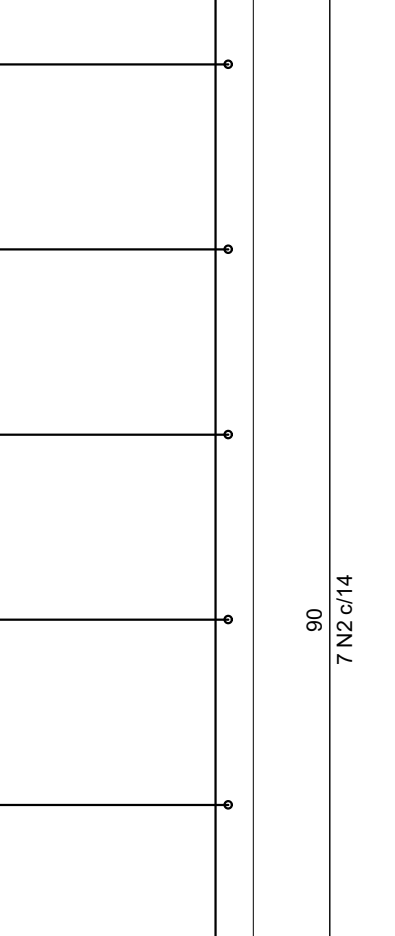
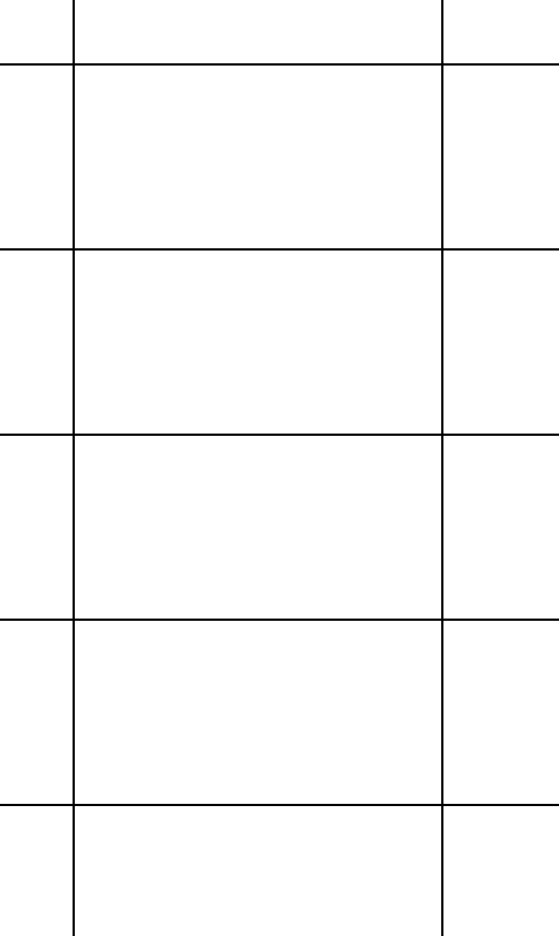
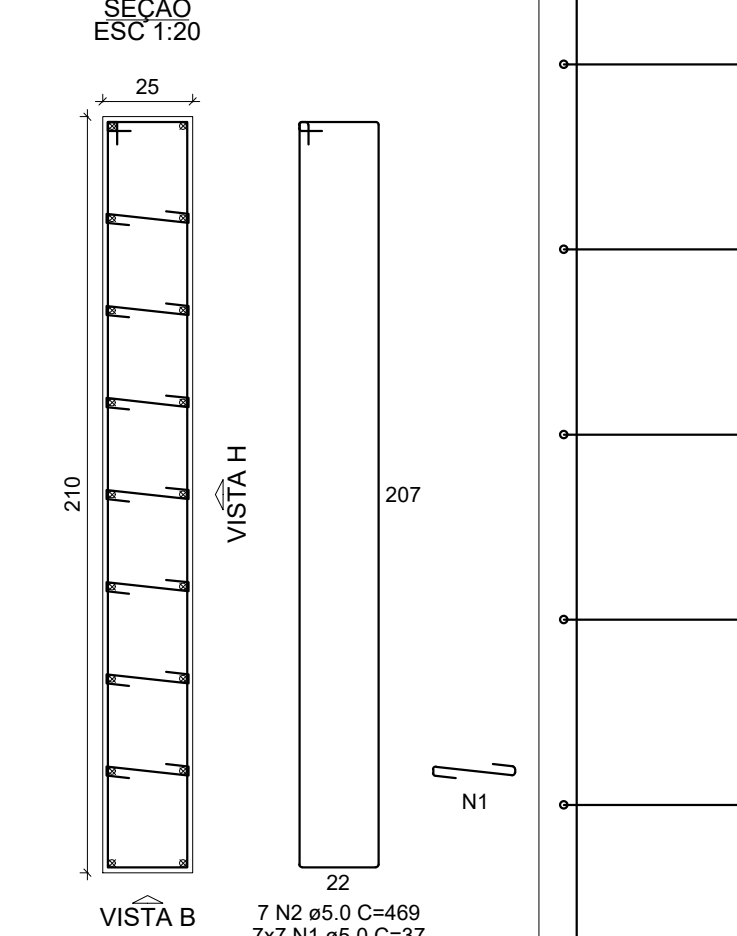
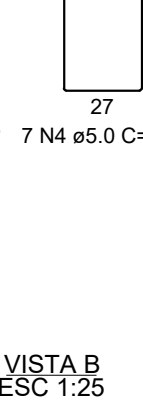
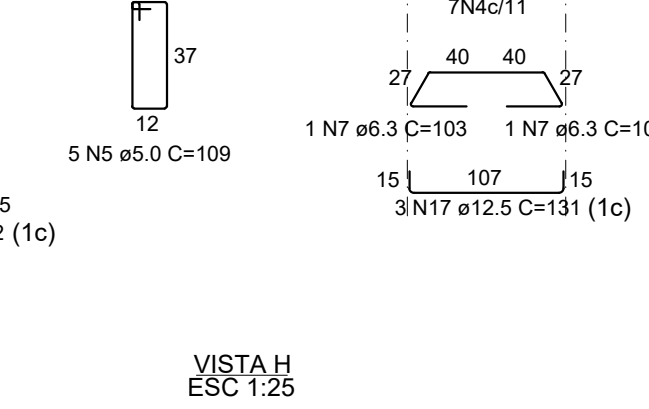
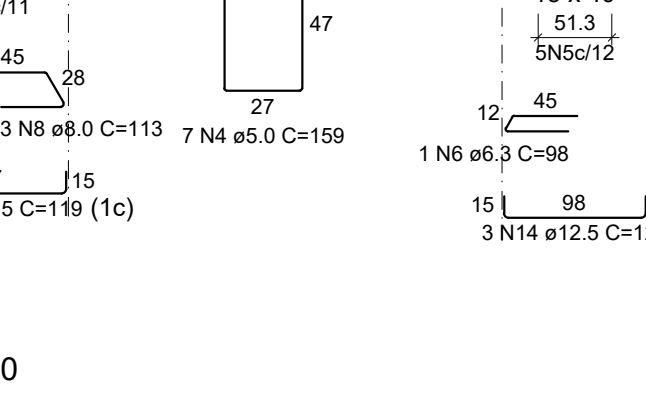
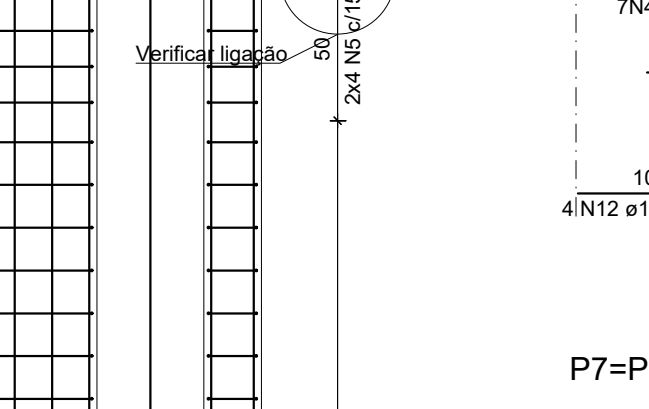
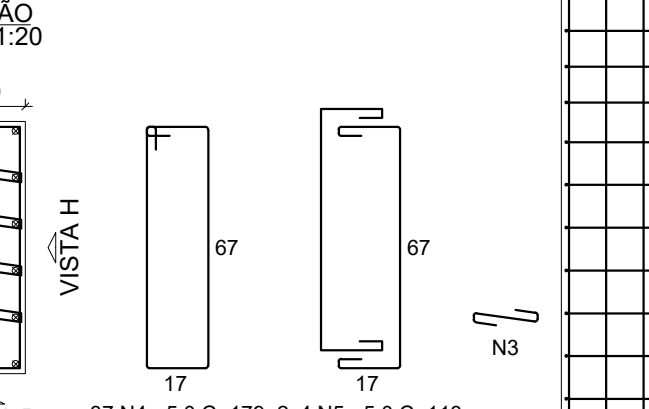
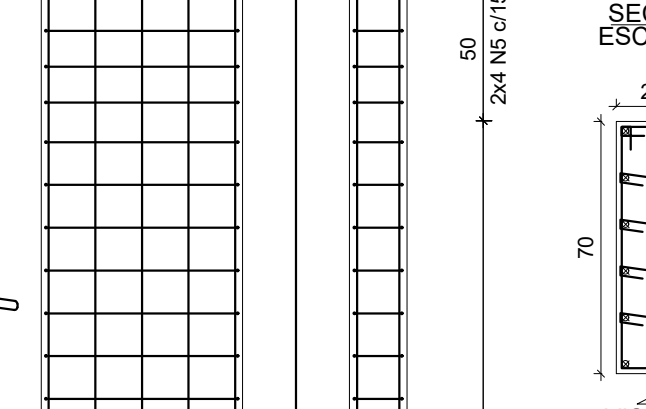
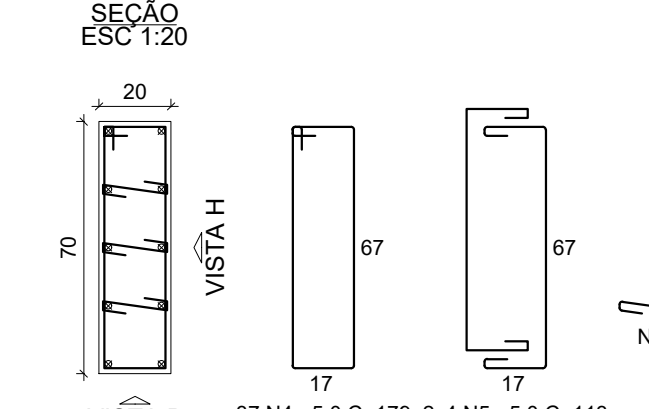
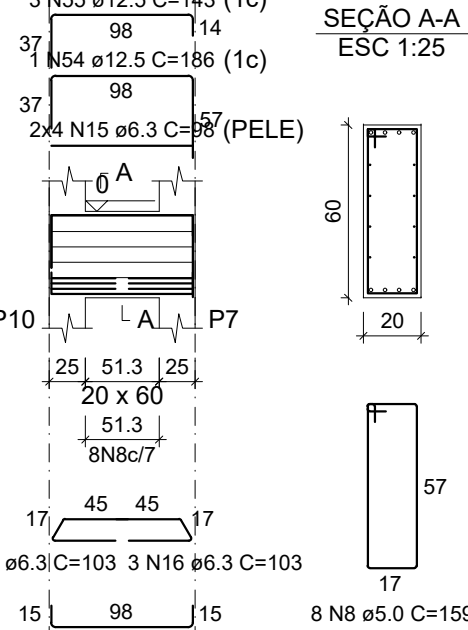
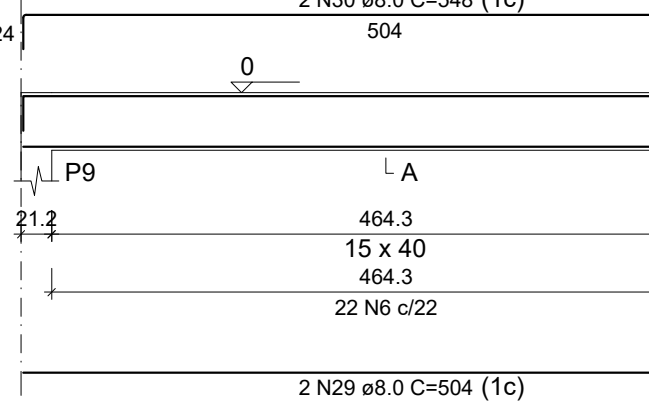
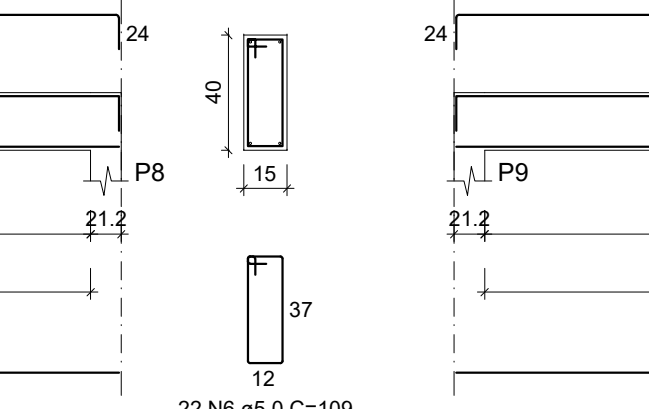
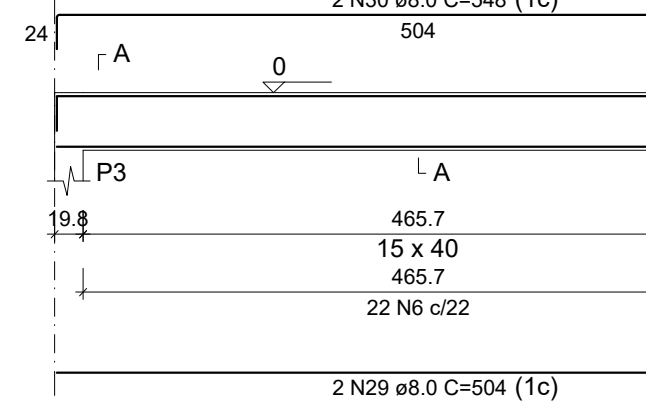
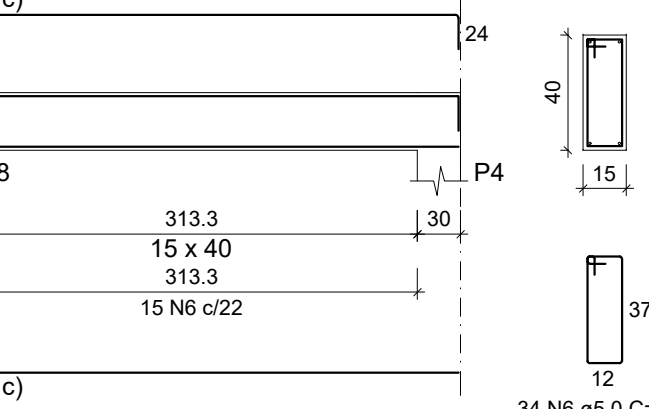
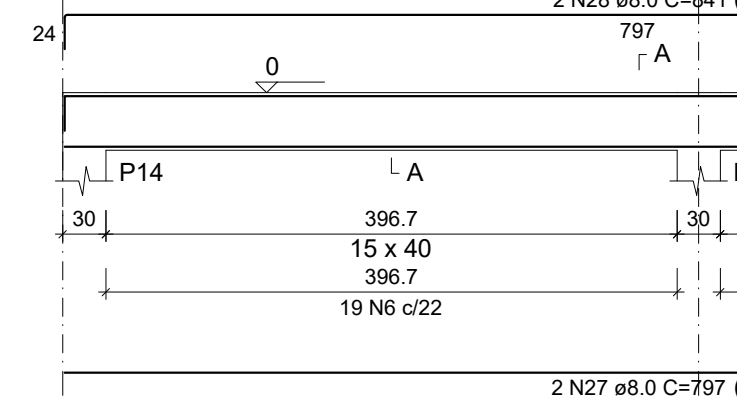
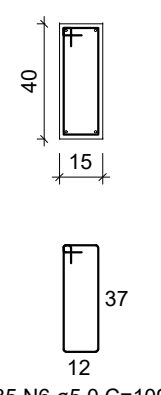
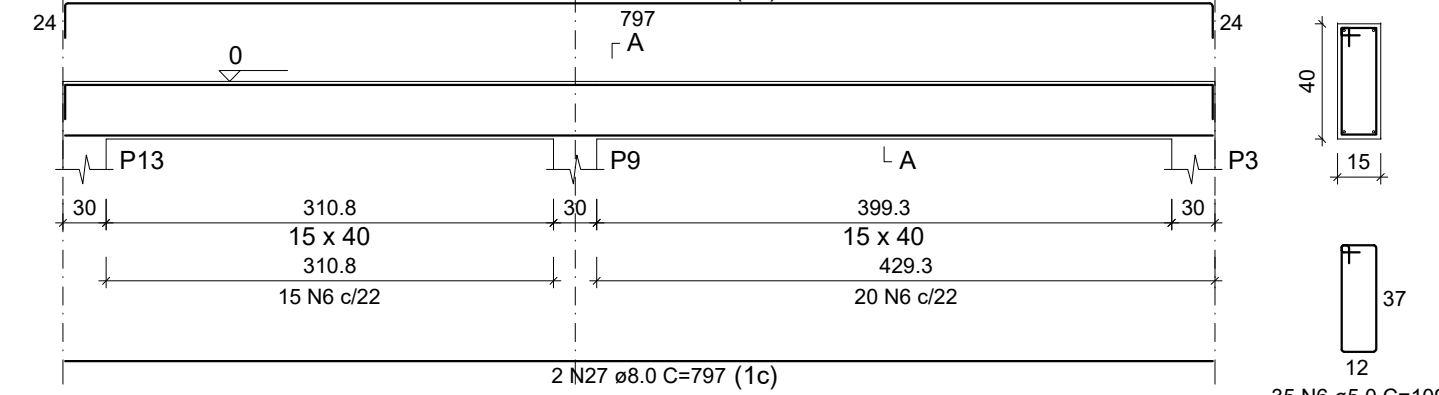
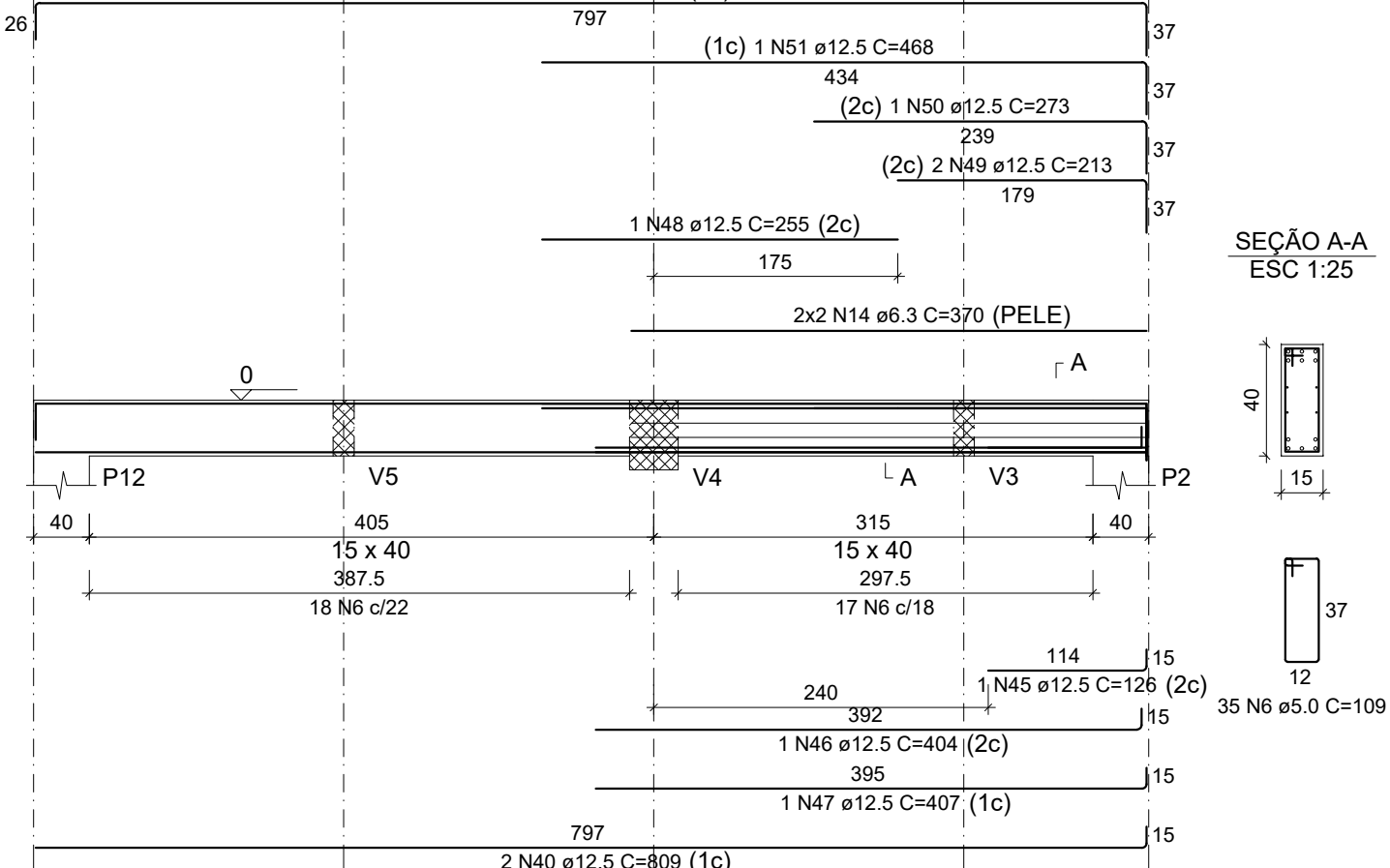
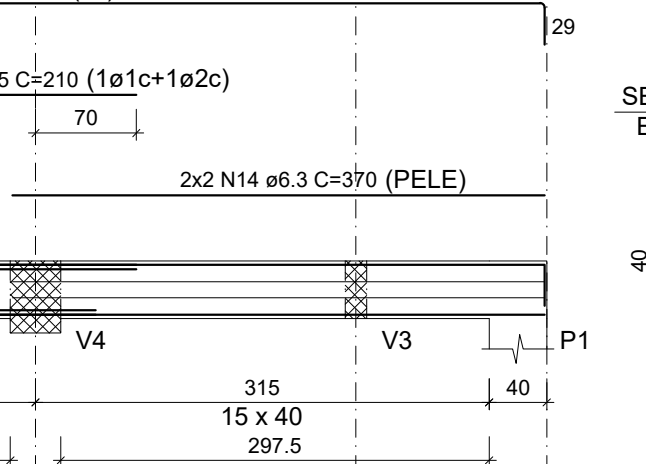
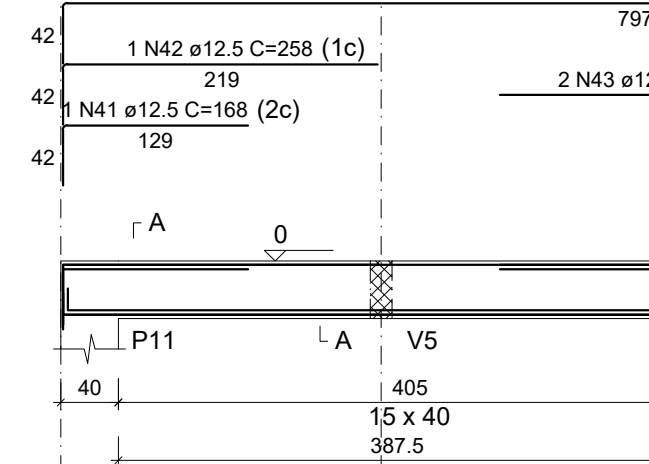
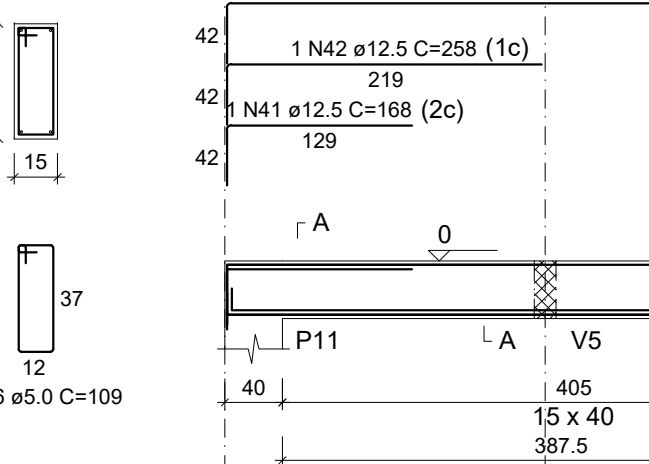
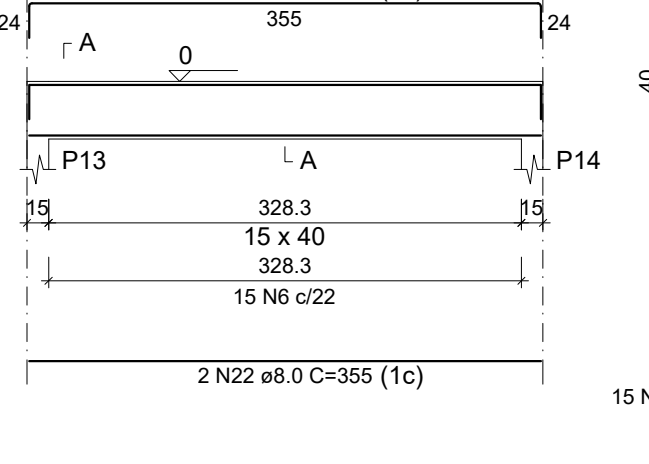
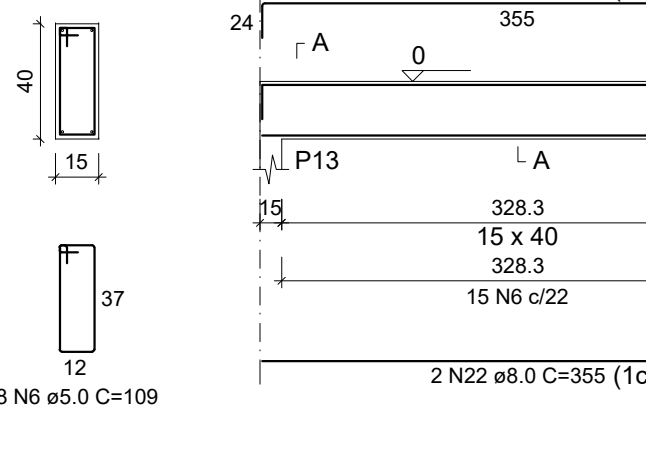
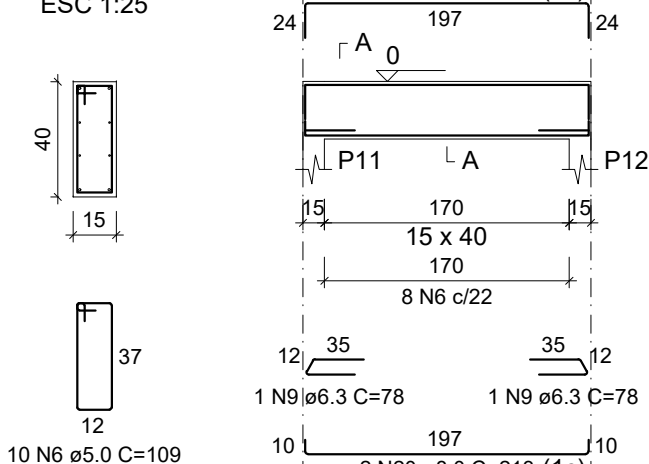
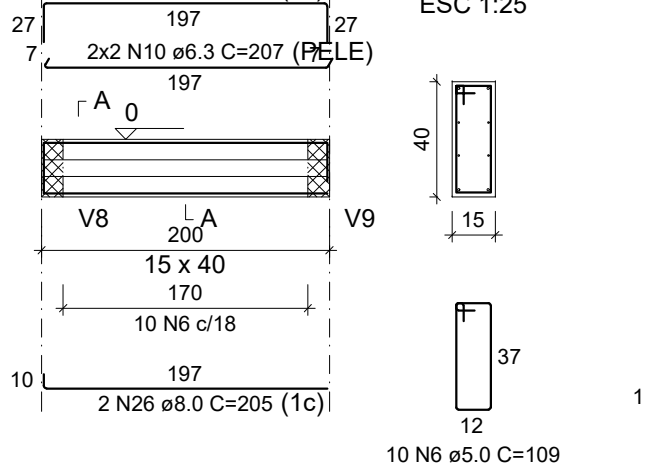
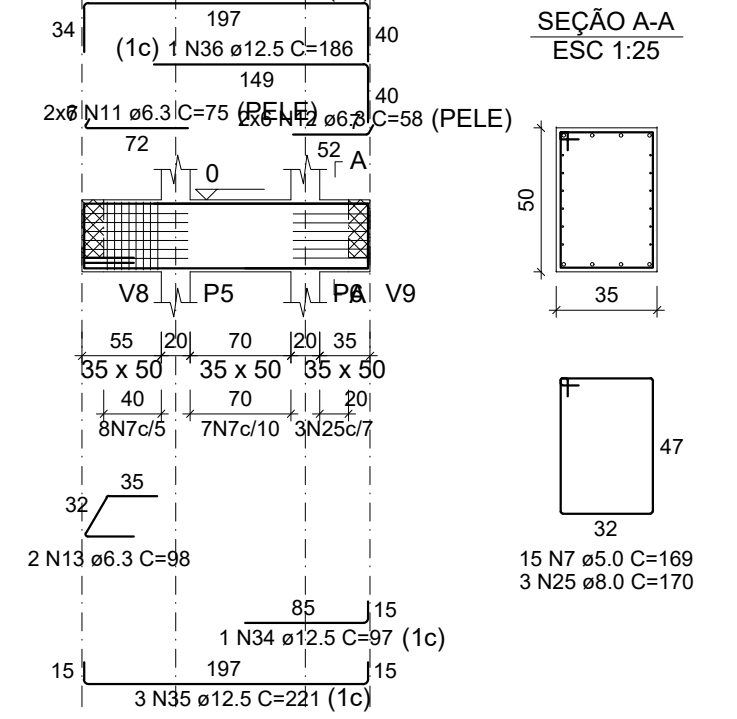
03



| PSL-2 DO ACO | | | | | | |
|--------------|--------|-------|--------|-------|--------|-------|
| | PSL-2 | | PSL-1 | | | |
| | BS-6L1 | V2L1 | BS-6L1 | V2L1 | BS-6L1 | V2L1 |
| | V2L1 | V4L1 | V2L1 | V4L1 | V2L1 | V4L1 |
| | V4L1 | V6L1 | V4L1 | V6L1 | V4L1 | V6L1 |
| | V6L1 | V8L1 | V6L1 | V8L1 | V6L1 | V8L1 |
| | V8L1 | V10L1 | V8L1 | V10L1 | V8L1 | V10L1 |
| | V10L1 | V12L1 | V10L1 | V12L1 | V10L1 | V12L1 |
| | V12L1 | | V12L1 | | V12L1 | |
| ACO | N | DIA | QUANT | CUNT | N | TOTAL |
| CAGO | 1 | 0.0 | 18 | VAR | VAR | 0 |
| | 2 | 0.0 | 18 | VAR | VAR | 0 |
| | 3 | 5.0 | 378 | 32 | 12098 | 32 |
| | 4 | 5.0 | 10 | 113 | 2636 | 113 |
| | 5 | 5.0 | 32 | 113 | 2636 | 113 |
| | 6 | 5.0 | 200 | 100 | 1510 | 100 |
| | 7 | 5.0 | 16 | 169 | 3516 | 169 |
| | 8 | 6.3 | 8 | 150 | 3210 | 150 |
| | 9 | 6.3 | 4 | 78 | 312 | 78 |
| | 10 | 6.3 | 12 | 75 | 800 | 75 |
| | 11 | 6.3 | 12 | 75 | 800 | 75 |
| | 12 | 6.3 | 3 | 98 | 186 | 98 |
| CASO | 13 | 6.3 | 3 | 98 | 186 | 98 |
| | 14 | 6.3 | 8 | 385 | 784 | 385 |
| | 15 | 6.3 | 8 | 103 | 81 | 103 |
| | 16 | 6.3 | 8 | 103 | 81 | 103 |
| | 17 | 6.3 | 8 | VAR | VAR | 0 |
| | 18 | 6.3 | 8 | VAR | VAR | 0 |
| | 19 | 8.0 | 6 | 213 | 979 | 213 |
| | 20 | 8.0 | 24 | 94 | 1272 | 94 |
| | 21 | 8.0 | 4 | 355 | 480 | 355 |
| | 22 | 8.0 | 4 | 240 | 420 | 240 |
| | 23 | 8.0 | 4 | 360 | 580 | 360 |
| | 24 | 8.0 | 4 | 205 | 410 | 205 |
| | 25 | 8.0 | 4 | 770 | 1380 | 770 |
| | 26 | 8.0 | 4 | 841 | 3264 | 841 |
| | 27 | 8.0 | 4 | 504 | 3016 | 504 |
| | 28 | 8.0 | 4 | 548 | 2102 | 548 |
| | 29 | 8.0 | 24 | 22 | 1310 | 22 |
| | 30 | 12.5 | 22 | 288 | 1376 | 288 |
| | 31 | 12.5 | 2 | 10 | 10 | 10 |
| | 32 | 12.5 | 3 | 201 | 663 | 201 |
| | 33 | 12.5 | 1 | 64 | 64 | 64 |
| | 34 | 12.5 | 1 | 497 | 497 | 497 |
| | 35 | 12.5 | 1 | 800 | 800 | 800 |
| | 36 | 12.5 | 1 | 168 | 168 | 168 |
| | 37 | 12.5 | 1 | 407 | 407 | 407 |
| | 38 | 12.5 | 1 | 210 | 210 | 210 |
| | 39 | 12.5 | 1 | 126 | 126 | 126 |
| | 40 | 12.5 | 1 | 404 | 404 | 404 |
| | 41 | 12.5 | 1 | 407 | 407 | 407 |
| | 42 | 12.5 | 1 | 265 | 265 | 265 |
| | 43 | 12.5 | 1 | 273 | 273 | 273 |
| | 44 | 12.5 | 1 | 273 | 273 | 273 |
| | 45 | 12.5 | 1 | 854 | 854 | 854 |
| | 46 | 12.5 | 1 | 112 | 112 | 112 |
| | 47 | 12.5 | 1 | 186 | 186 | 186 |
| | 48 | 12.5 | 1 | 128 | 128 | 128 |
| | 49 | 12.5 | 1 | 186 | 186 | 186 |
| | 50 | 12.5 | 1 | 186 | 186 | 186 |

| AÇO | DIAM. (mm) | C. TOTAL (m) | PESO + 10% (kg) |
|--------------------|---------------|-----------------|--------------------|
| CA50 | 6.3 | 81.2 | 21.9 |
| | 8.0 | 242.1 | 105.1 |
| | 10.0 | 61.7 | 41.9 |
| | 12.5 | 320.3 | 339.5 |
| CA60 | 5.0 | 673.7 | 114.2 |
| PESO TOTAL (kg) | | | |
| CA50 | 508.3 | | |
| CA60 | 114.2 | | |

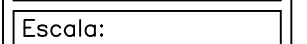
Volume de concreto (C-30) = 7.35 m³
 Área de forma = 92.15 m²



| RELAÇÃO DO AÇO | | | | | |
|----------------|------------------|------|-------|-----------------|---------|
| P7-13 WV-12 | 2xP7-12 WV-12 | | | P10-13 WV-12 | |
| AÇO | N | DIAM | QUANT | C.UNIT | C.TOTAL |
| CA50 | 1 | 5,0 | 854 | 37 | 31598 |
| | 2 | 5,0 | 114 | 469 | 53486 |
| | 3 | 5,0 | 263 | 408 | 107408 |
| | 4 | 5,0 | 14 | 159 | 2226 |
| CA50 | 5 | 5,0 | 5 | 109 | 545 |
| | 6 | 6,3 | 1 | 98 | 98 |
| | 7 | 6,3 | 2 | 103 | 206 |
| | 8 | 8,0 | 3 | 113 | 339 |
| | 9 | 12,5 | 18 | 253 | 4554 |
| | 10 | 12,5 | 9 | 642 | 5772 |
| | 11 | 12,5 | 18 | 88 | 1884 |
| | 12 | 12,5 | 4 | 119 | 476 |
| | 13 | 12,5 | 8 | 178 | 800 |
| | 14 | 12,5 | 3 | 122 | 366 |
| | 15 | 12,5 | 1 | 168 | 168 |
| | 16 | 12,5 | 2 | 145 | 290 |
| | 17 | 12,5 | 3 | 131 | 393 |
| | 18 | 12,5 | 1 | 182 | 182 |

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|-----------------|-----------|-------------|-----------------|
| CA50 | 6.3 | 3 | 0.8 |
| | 8.0 | 3.4 | 1.5 |
| CA60 | 12.5 | 322 | 341.2 |
| | 5.0 | 920.4 | 156.1 |
| PESO TOTAL (kg) | | | |
| CA50 | 343.5 | | |
| CA60 | 156.1 | | |

Volume de concreto (C-30) = 8,35 m³
Área de forma = 76,44 m²



Responsável Técnico Projeto:

PREFEITURA DE IPUACU – SP

Escola: