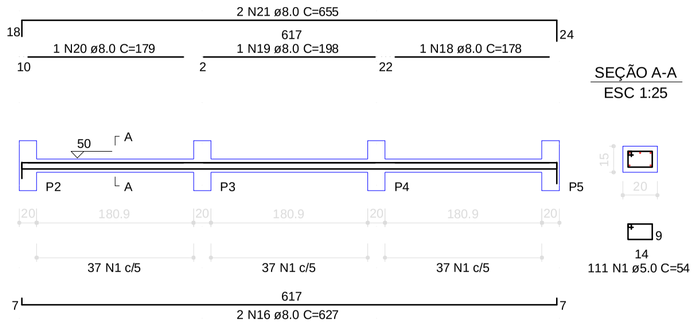
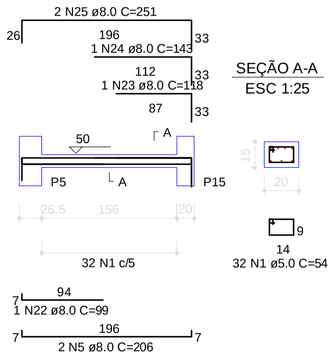
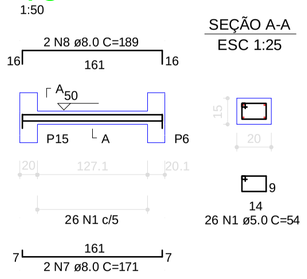
## V1
1:50



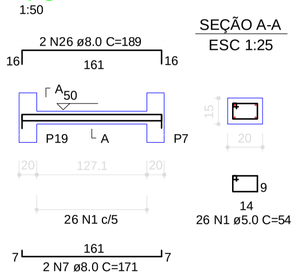

## V2
1:50



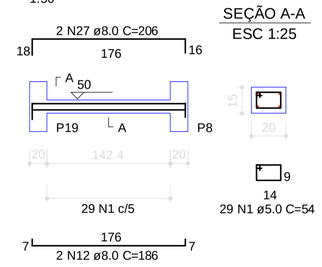

## V3
1:50




## V5
1:50




## V6
1:50




## RELAÇÃO DO AÇO

| | | |
|---|---|---|
| 19xP1-L2 | V21-L2 | V31-L2 |
| V41-L2 | V51-L2 | V61-L2 |
| V71-L2 | V81-L2 | 19xB19-L1 |
| 19xP1-L1 | V1-L1 | V2-L1 |
| V3-L1 | V4-L1 | V5-L1 |
| V6-L1 | V7-L1 | |

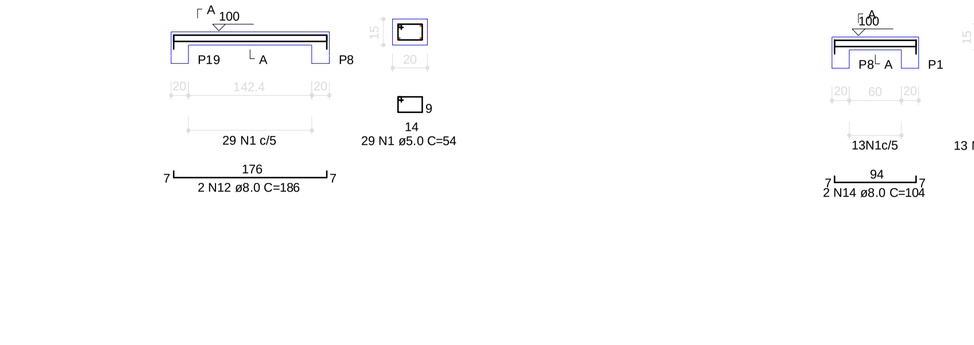
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| 60 | 1 | 5.0 | 776 | 54 | 41904 |
| 50 | 2 | 6.3 | 190 | 52 | 9880 |
| | 3 | 6.3 | 95 | 188 | 17860 |
| | 4 | 6.3 | 38 | 180 | 6840 |
| | 5 | 8.0 | 4 | 206 | 824 |
| | 6 | 8.0 | 2 | 236 | 472 |
| | 7 | 8.0 | 8 | 171 | 1368 |
| | 8 | 8.0 | 6 | 189 | 1134 |
| | 9 | 8.0 | 1 | 86 | 86 |
| | 10 | 8.0 | 4 | 932 | 3728 |
| | 11 | 8.0 | 4 | 950 | 3800 |
| | 12 | 8.0 | 4 | 186 | 744 |
| | 13 | 8.0 | 2 | 204 | 408 |
| | 14 | 8.0 | 4 | 104 | 416 |
| | 15 | 8.0 | 4 | 122 | 488 |
| | 16 | 8.0 | 4 | 627 | 2508 |
| | 17 | 8.0 | 2 | 662 | 1324 |
| | 18 | 8.0 | 1 | 178 | 178 |
| | 19 | 8.0 | 1 | 198 | 198 |
| | 20 | 8.0 | 1 | 179 | 179 |
| | 21 | 8.0 | 2 | 655 | 1310 |
| | 22 | 8.0 | 1 | 99 | 99 |
| | 23 | 8.0 | 1 | 118 | 118 |
| | 24 | 8.0 | 1 | 143 | 143 |
| | 25 | 8.0 | 2 | 251 | 502 |
| | 26 | 8.0 | 2 | 189 | 378 |
| | 27 | 8.0 | 2 | 206 | 412 |
| | 28 | 10.0 | 76 | 45 | 3420 |
| | 29 | 10.0 | 76 | VAR | VAR |

## RESUMO DO AÇO

| AÇO | DIAM | C.TOTAL (m) | PESO+10% (kg) |
|---|---|---|---|
| CA50 | 6.3 | 346.1 | 93.3 |
| | 8.0 | 208.4 | 90.6 |
| | 10.0 | 141.9 | 96.3 |
| CA60 | 5.0 | 422.9 | 71.6 |
| PESO TOTAL | | | |
| CA50 | 280.2 | | |
| CA60 | 71.6 | | |

Volume de concreto total = 4.04 m³
Área de forma total = 56.75 m²
fck = 200.00 kgf/cm²

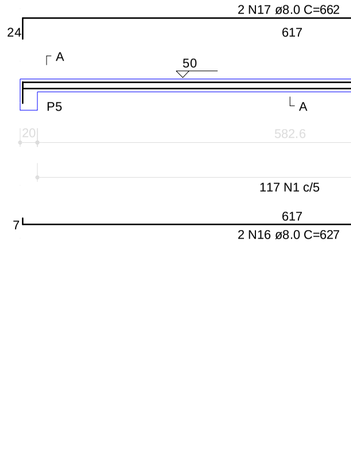
## V4
1:50




## V7
1:50




P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12
=P13=P14=P15=P16=P17=P18=P19

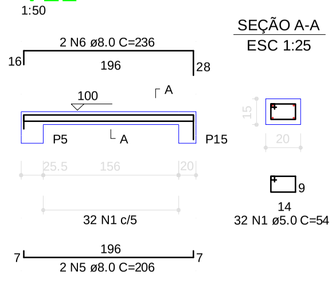



B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12
=B13=B14=B15=B16=B17=B18=B19
1ø20

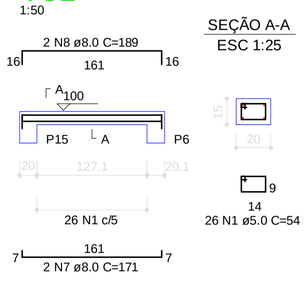
Planta
ESC 1:25

Corte
ESC 1:25

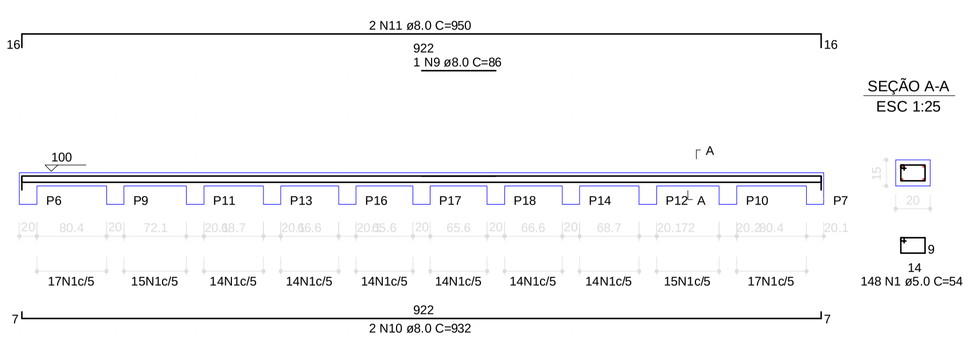
## V21
1:50



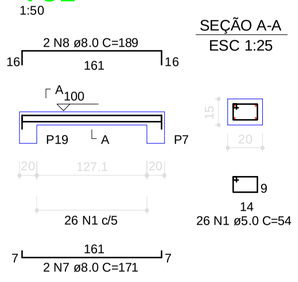

## V31
1:50



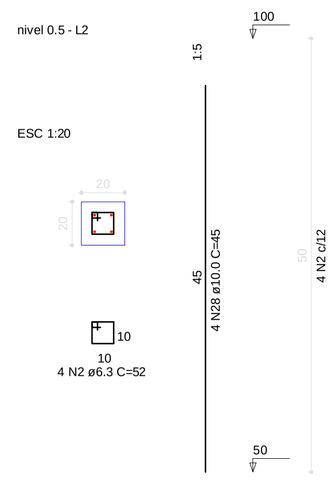

## V41
1:50



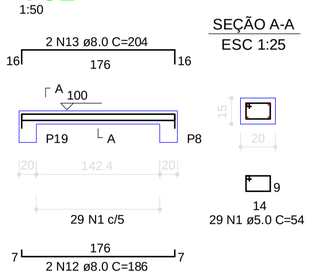

## V51
1:50



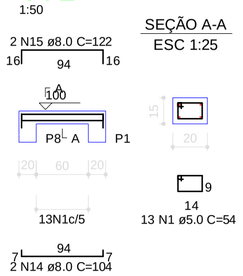

P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12
=P13=P14=P15=P16=P17=P18=P19



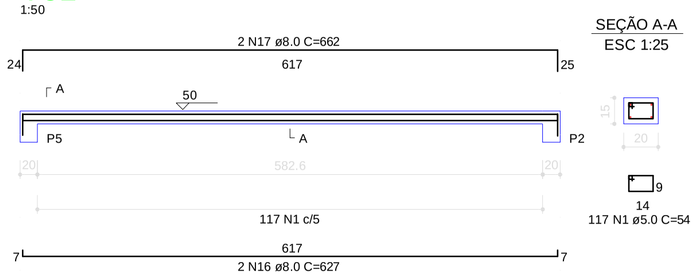

## V61
1:50




## V71
1:50




## V81
1:50




| | |
|---|---|
| TÍTULO: | FERRAGEM TÉRREO FRENTE |
| OBRA: | BLOCO CENTRAL |
| LOCAL: | FRANCA SP |
| CLIENTE: | UNIFACEF |
| ENG. | VIRGÍNIO H. V. REIS |
| CREA: | 0600706662 |
| ESCALA: | INDICADA |
| DATA | NOV 2012 |
| OBS: | |

2/12