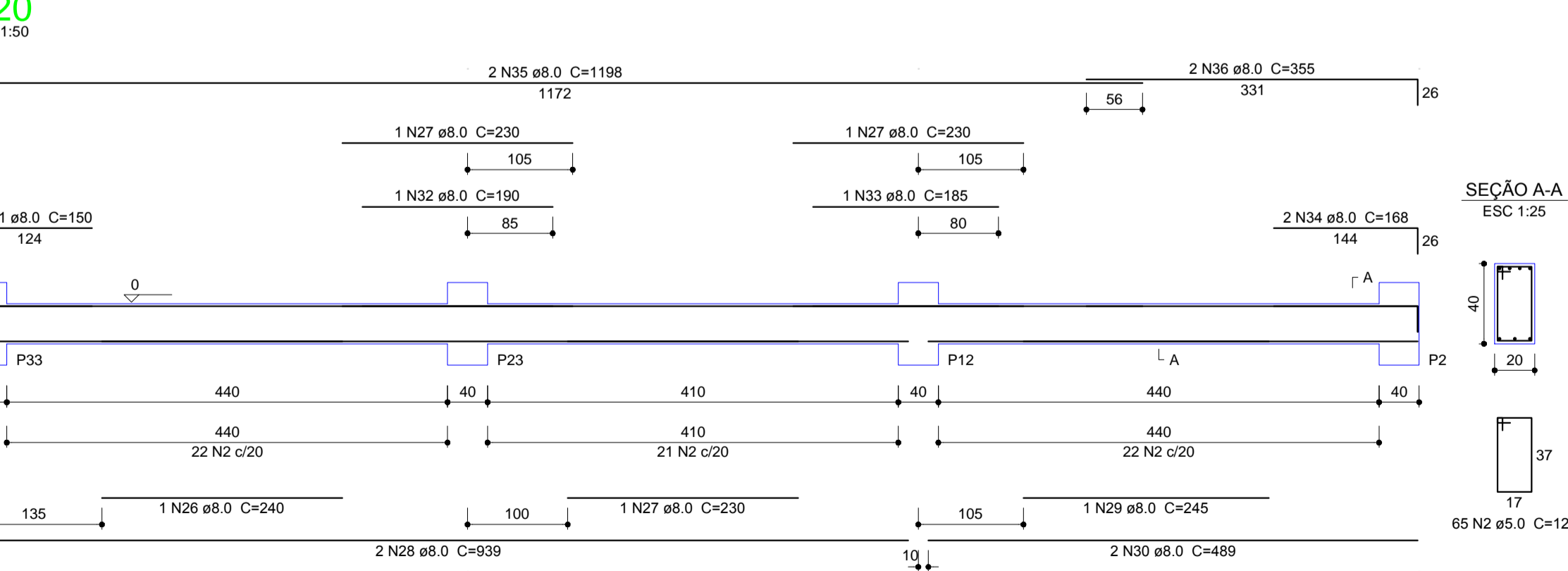
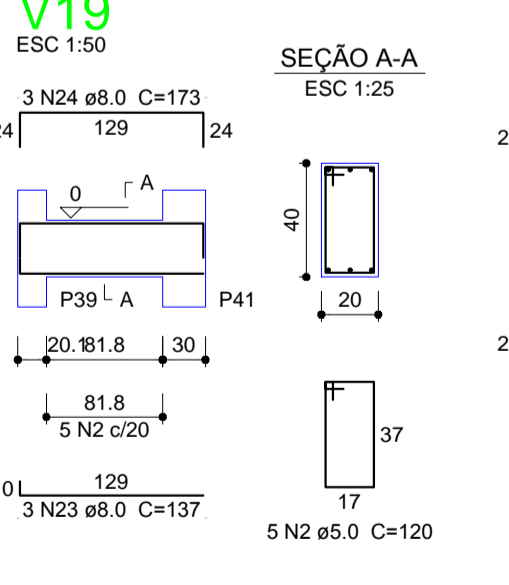
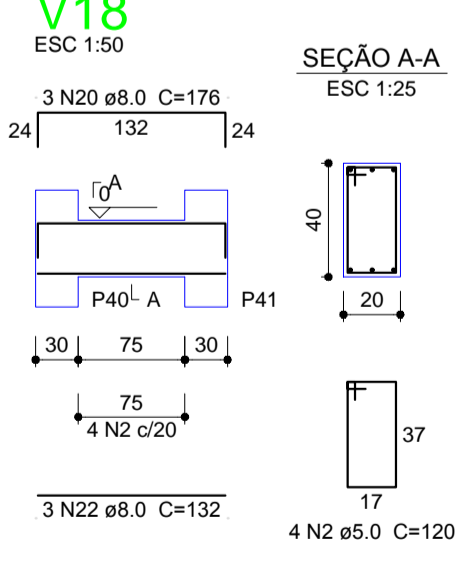
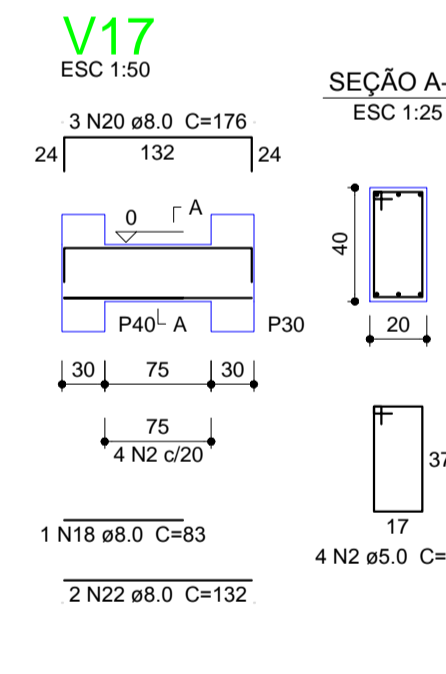
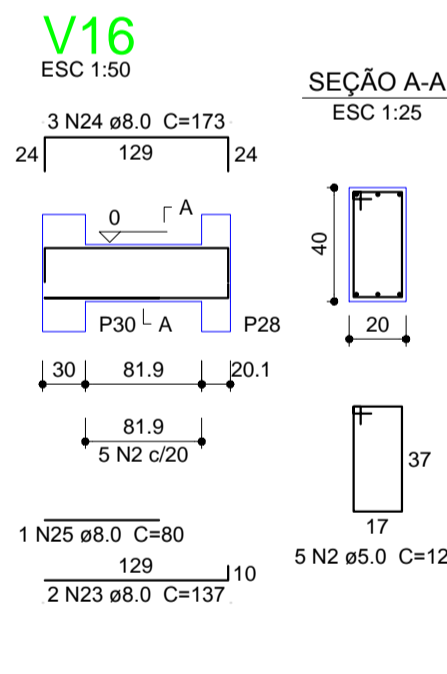
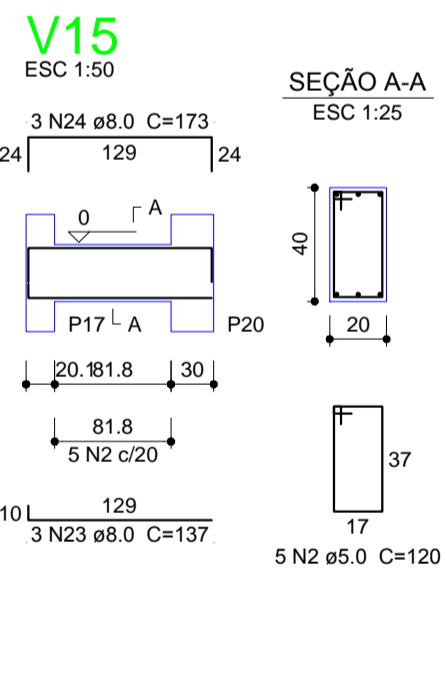
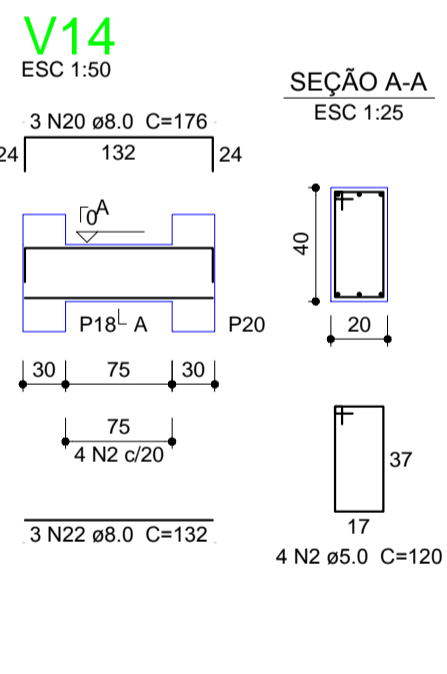
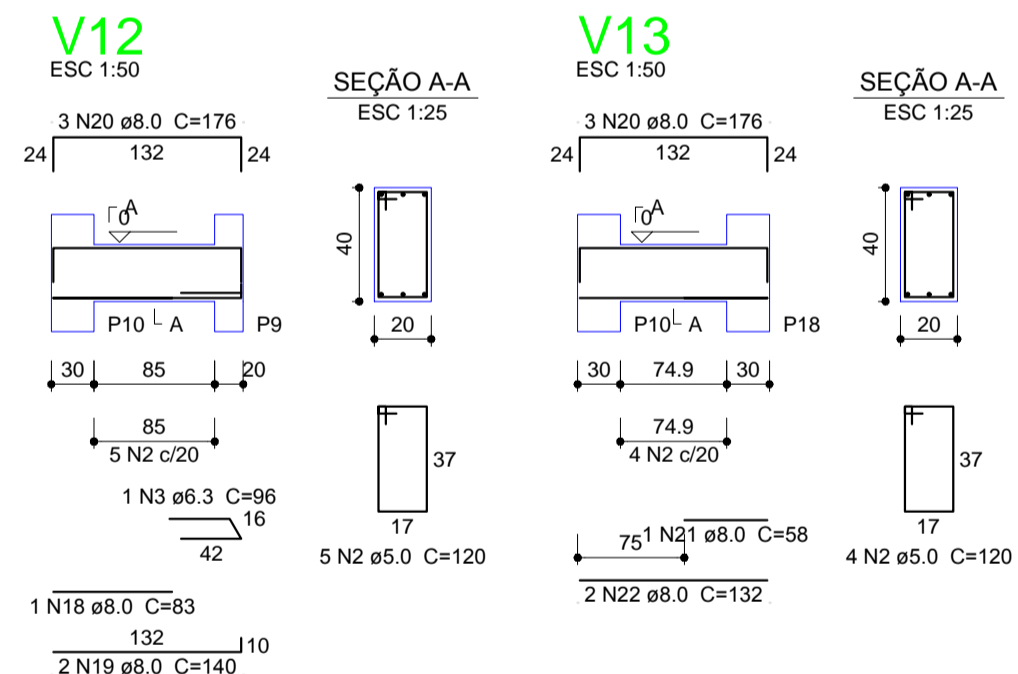
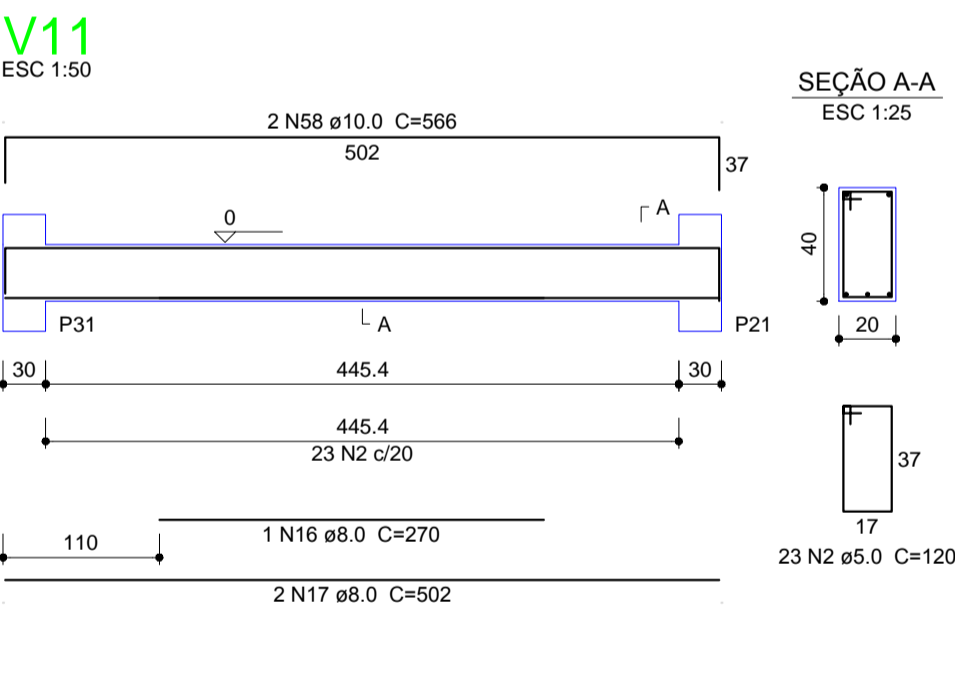
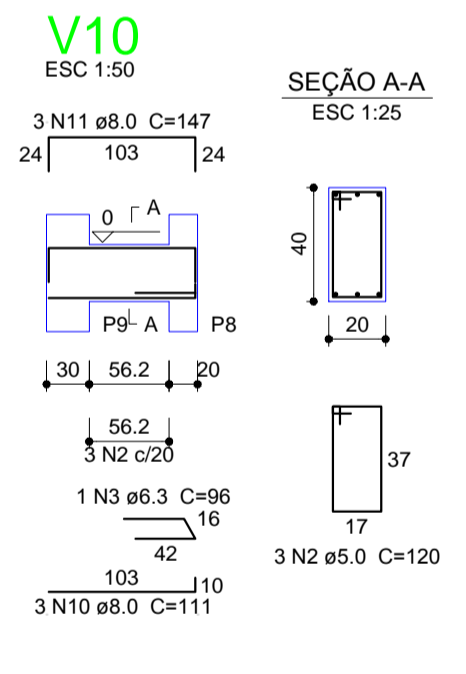
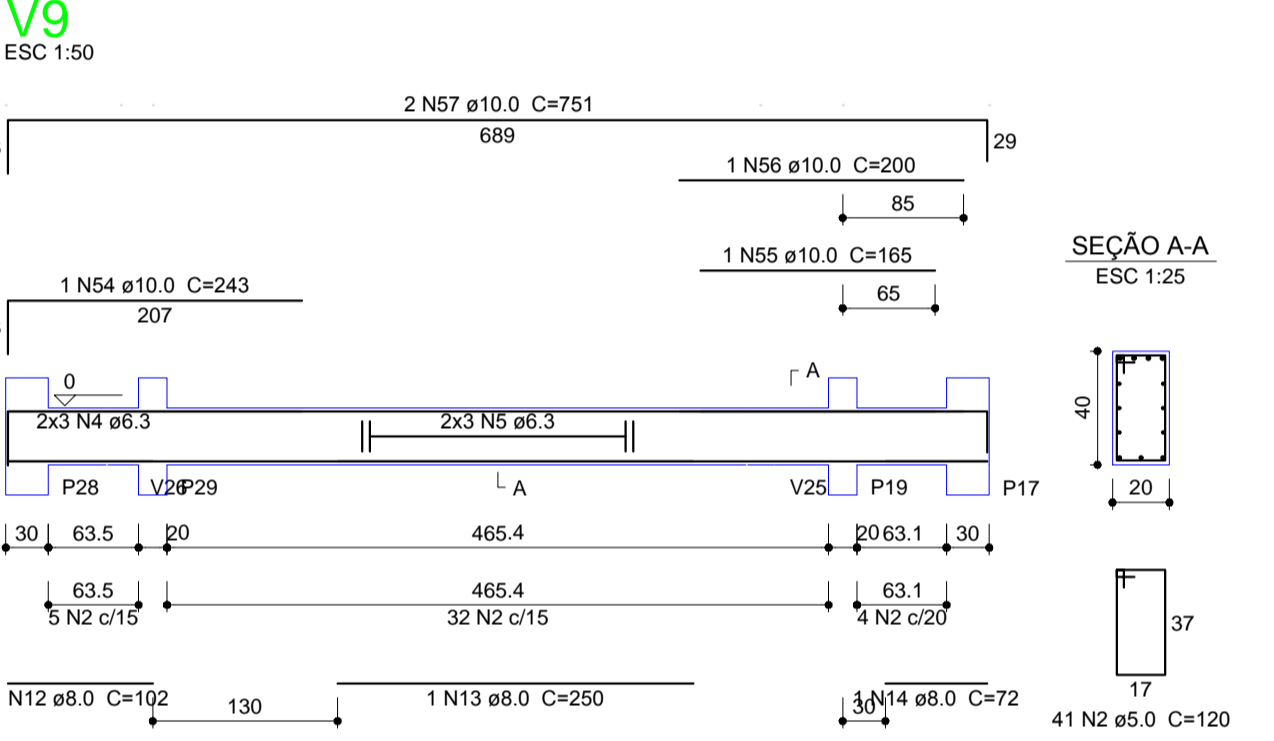
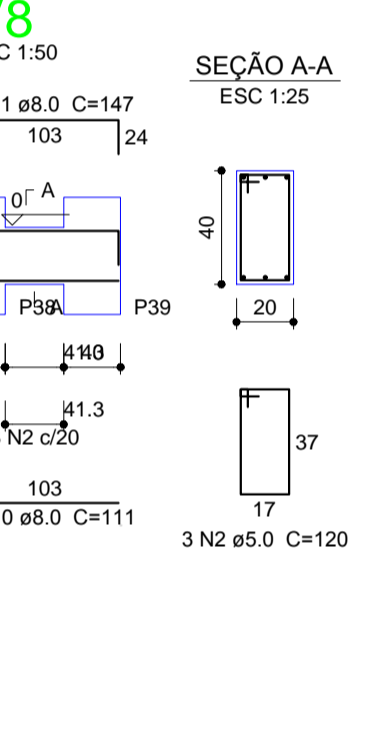
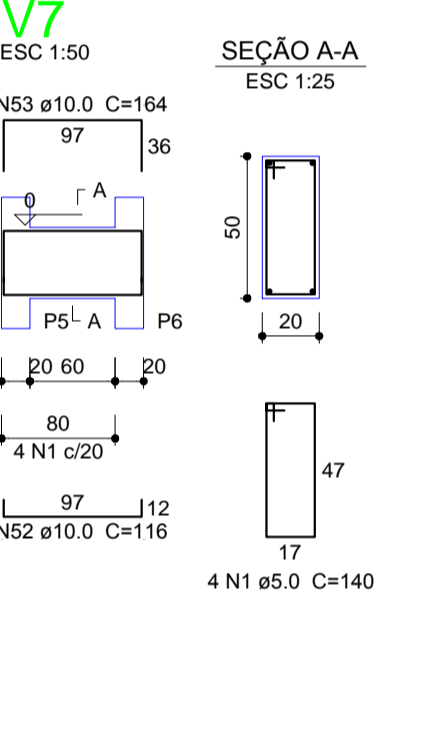
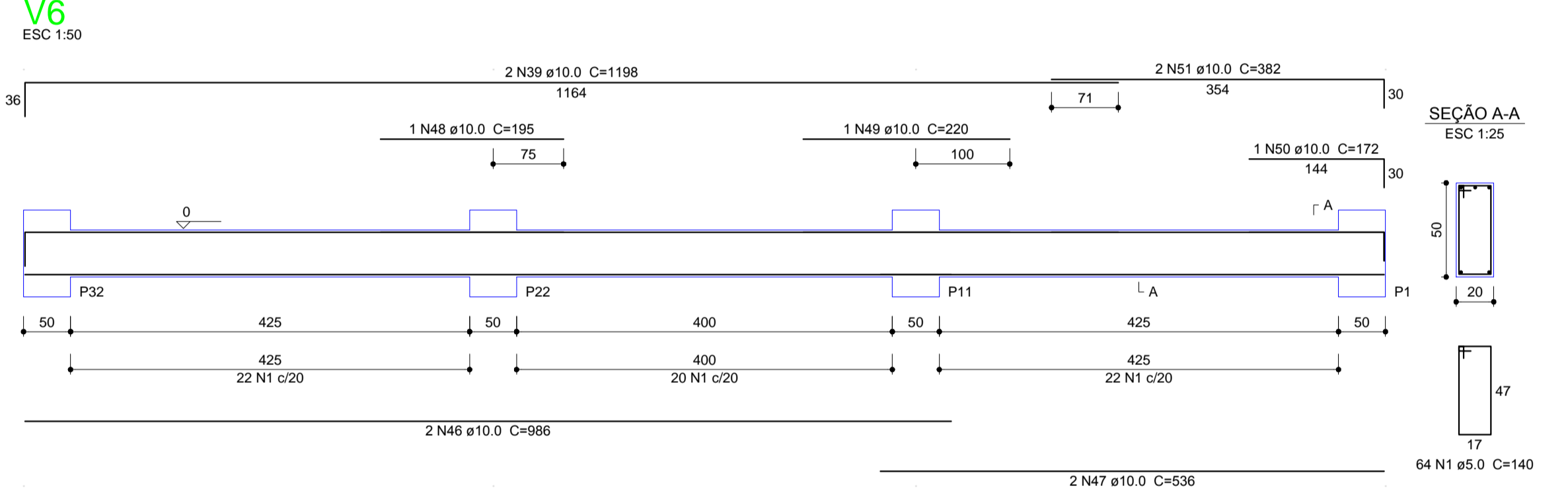
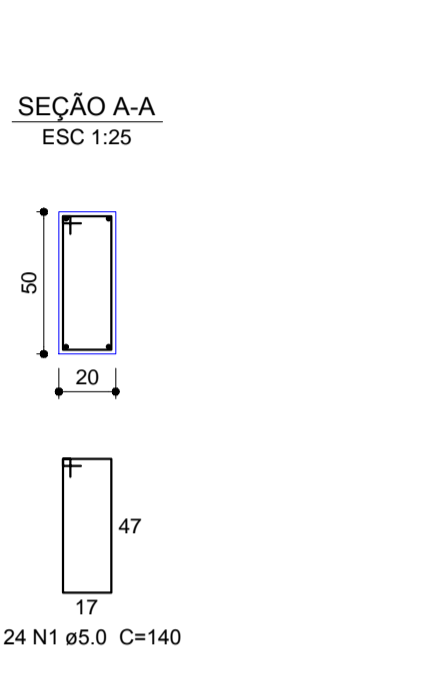
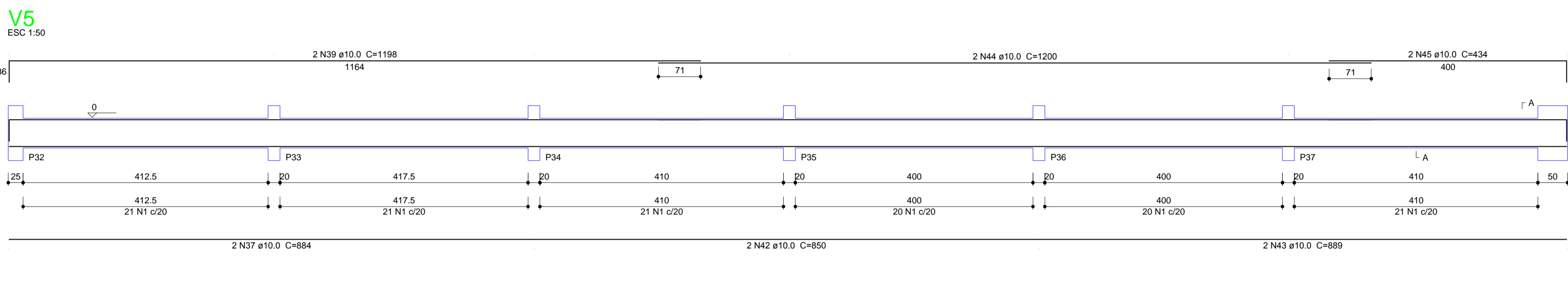
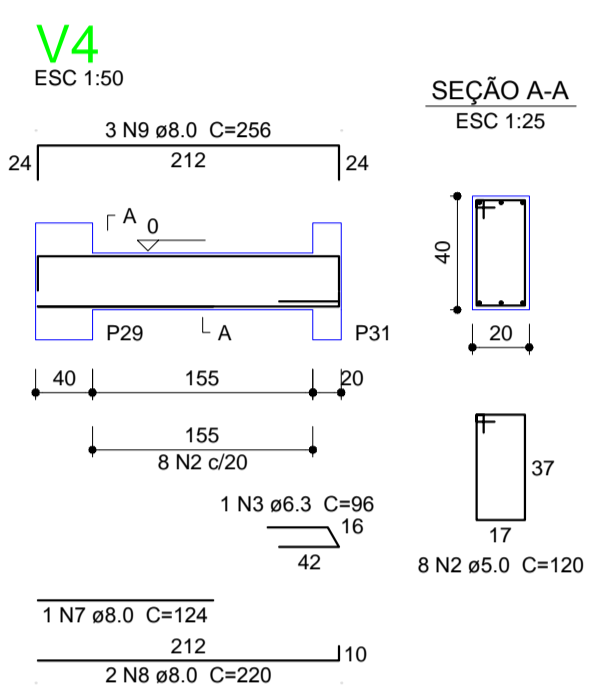


Relação do aço

| AÇO | N | DIAM (mm) | QUANT (Barras) | UN (cm) | C.TOTAL (cm) |
|------|----|-----------|----------------|---------|--------------|
| CA60 | 1 | 5.0 | 328 | 140 | 45920 |
| CA50 | 2 | 5.0 | 187 | 120 | 22440 |
| | 3 | 6.3 | 4 | 96 | 384 |
| | 4 | 6.3 | 6 | CORR | 378 |
| | 5 | 6.3 | 6 | CORR | 2790 |
| | 6 | 6.3 | 8 | CORR | 3520 |
| | 7 | 8.0 | 2 | 124 | 248 |
| | 8 | 8.0 | 4 | 220 | 880 |
| | 9 | 8.0 | 6 | 256 | 1536 |
| | 10 | 8.0 | 6 | 111 | 666 |
| | 11 | 8.0 | 6 | 147 | 892 |
| | 12 | 8.0 | 1 | 102 | 102 |
| | 13 | 8.0 | 1 | 250 | 250 |
| | 14 | 8.0 | 1 | 72 | 72 |
| | 15 | 8.0 | 2 | 689 | 1378 |
| | 16 | 8.0 | 1 | 270 | 270 |
| | 17 | 8.0 | 2 | 502 | 1004 |
| | 18 | 8.0 | 2 | 83 | 166 |
| | 19 | 8.0 | 2 | 140 | 280 |
| | 20 | 8.0 | 15 | 176 | 2640 |
| | 21 | 8.0 | 1 | 58 | 58 |
| | 22 | 8.0 | 10 | 132 | 1320 |
| | 23 | 8.0 | 8 | 137 | 1096 |
| | 24 | 8.0 | 9 | 173 | 1557 |
| | 25 | 8.0 | 1 | 80 | 80 |
| | 26 | 8.0 | 1 | 240 | 240 |
| | 27 | 8.0 | 3 | 230 | 690 |
| | 28 | 8.0 | 2 | 939 | 1878 |
| | 29 | 8.0 | 1 | 245 | 245 |
| | 30 | 8.0 | 2 | 489 | 978 |
| | 31 | 8.0 | 1 | 150 | 150 |
| | 32 | 8.0 | 1 | 190 | 190 |
| | 33 | 8.0 | 1 | 185 | 185 |
| | 34 | 8.0 | 2 | 168 | 336 |
| | 35 | 8.0 | 2 | 1198 | 2396 |
| | 36 | 8.0 | 2 | 355 | 710 |
| | 37 | 10.0 | 4 | 884 | 3536 |
| | 38 | 10.0 | 2 | 729 | 1458 |
| | 39 | 10.0 | 6 | 1198 | 7188 |
| | 40 | 10.0 | 2 | 553 | 1106 |
| | 41 | 10.0 | 2 | 997 | 1994 |
| | 42 | 10.0 | 2 | 850 | 1700 |
| | 43 | 10.0 | 2 | 889 | 1778 |
| | 44 | 10.0 | 2 | 1200 | 2400 |
| | 45 | 10.0 | 2 | 434 | 868 |
| | 46 | 10.0 | 2 | 986 | 1972 |
| | 47 | 10.0 | 2 | 536 | 1072 |
| | 48 | 10.0 | 1 | 195 | 195 |
| | 49 | 10.0 | 1 | 220 | 220 |
| | 50 | 10.0 | 1 | 172 | 172 |
| | 51 | 10.0 | 2 | 382 | 764 |
| | 52 | 10.0 | 2 | 116 | 232 |
| | 53 | 10.0 | 2 | 164 | 328 |
| | 54 | 10.0 | 1 | 243 | 243 |
| | 55 | 10.0 | 1 | 165 | 165 |
| | 56 | 10.0 | 1 | 200 | 200 |
| | 57 | 10.0 | 2 | 751 | 1502 |
| | 58 | 10.0 | 2 | 566 | 1132 |
| | 59 | 12.5 | 2 | 1073 | 2146 |



Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|------------------------|-----------|-------------|-----------------|
| CA50 | 6.3 | 35.6 | 9.6 |
| | 8.0 | 260.1 | 112.9 |
| | 10.0 | 302.3 | 205 |
| | 12.5 | 21.5 | 22.7 |
| CA60 | 5.0 | 683.6 | 115.9 |
| PESO TOTAL (kg) | | | |
| CA50 | | 350.1 | |
| CA60 | | 115.9 | |

Volume de concreto (C-25) = 10.28 m³
Área de forma = 125.09 m²

MORANDO ENGENHARIA
R. Capitão Eleutério, 610, sala 104
Fone: 3313-5454 - 9981-2306
Passo Fundo - RS.

PROJETO ESTRUCTURAL CRECHE DE COXILHA

RESPONSÁVEL TÉCNICO: PAULO FRANCISCO MORANDO
ENR. CIVIL - CREA 53822

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE COXILHA

DESENHO: FERRAGEM DAS VIGAS DE BALDRAMES

ÁREA: m²

ESCALA: 1/50

DATA: JUNHO/19

PRCHA: 05