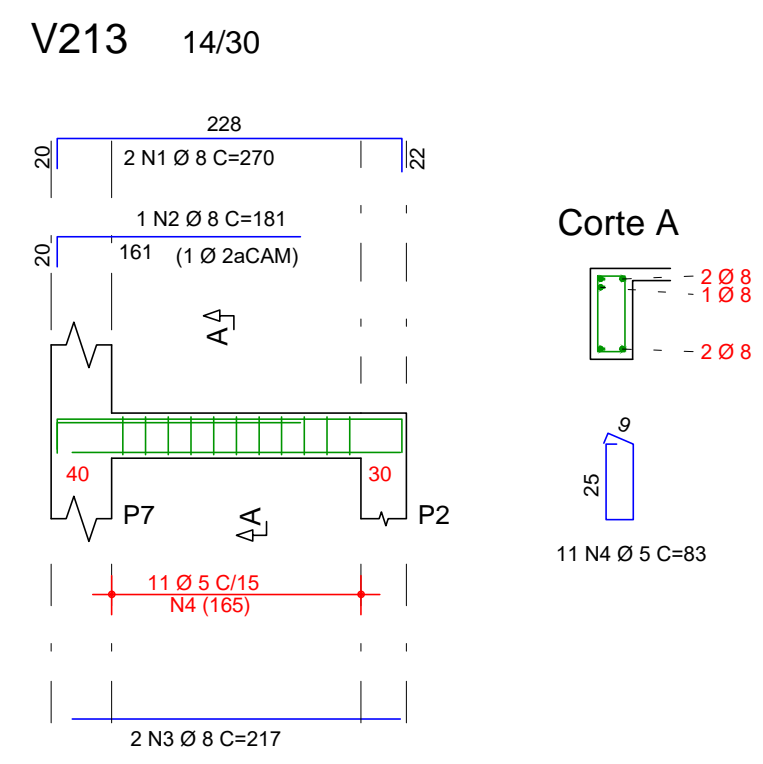
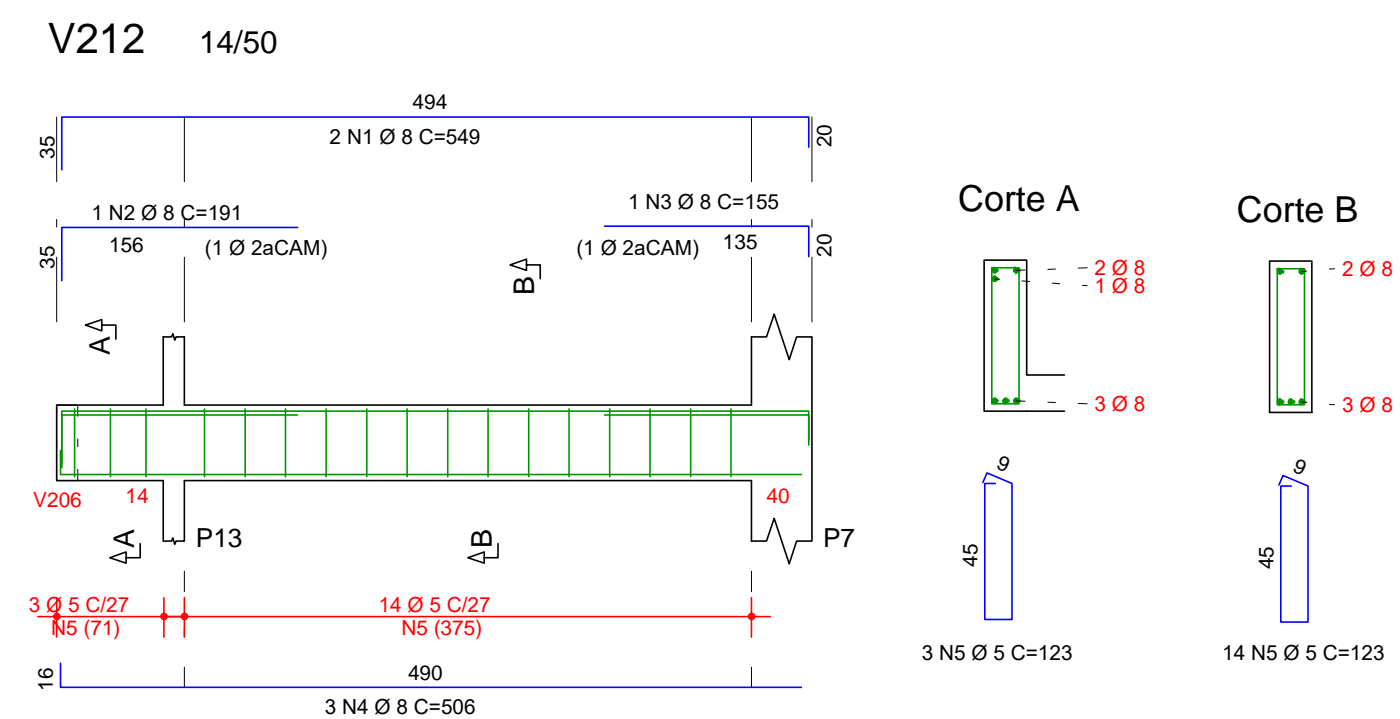
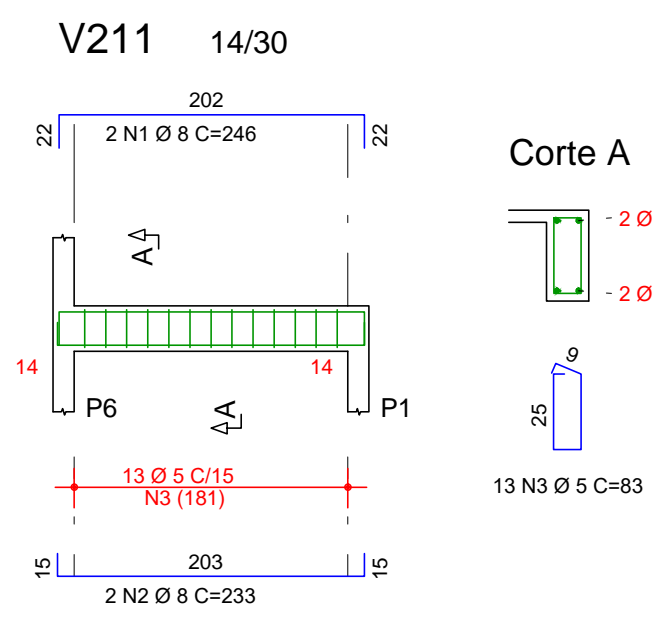
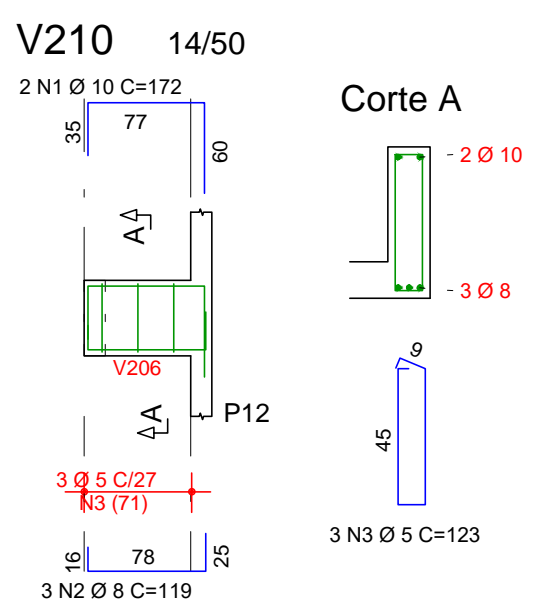
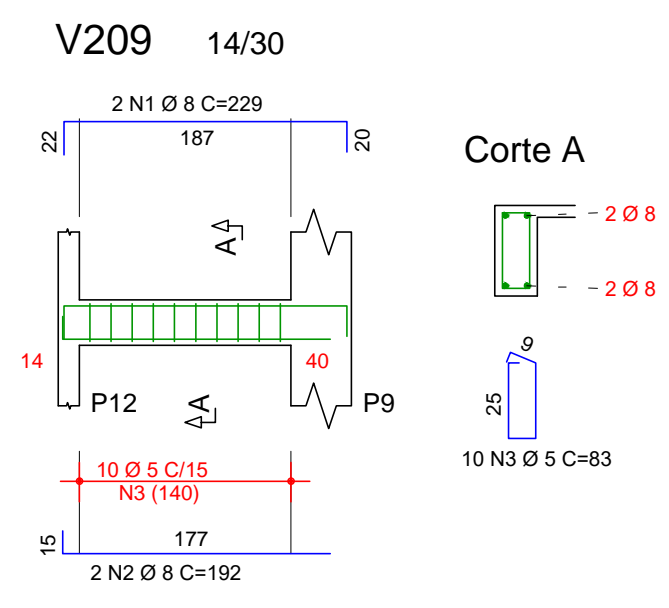
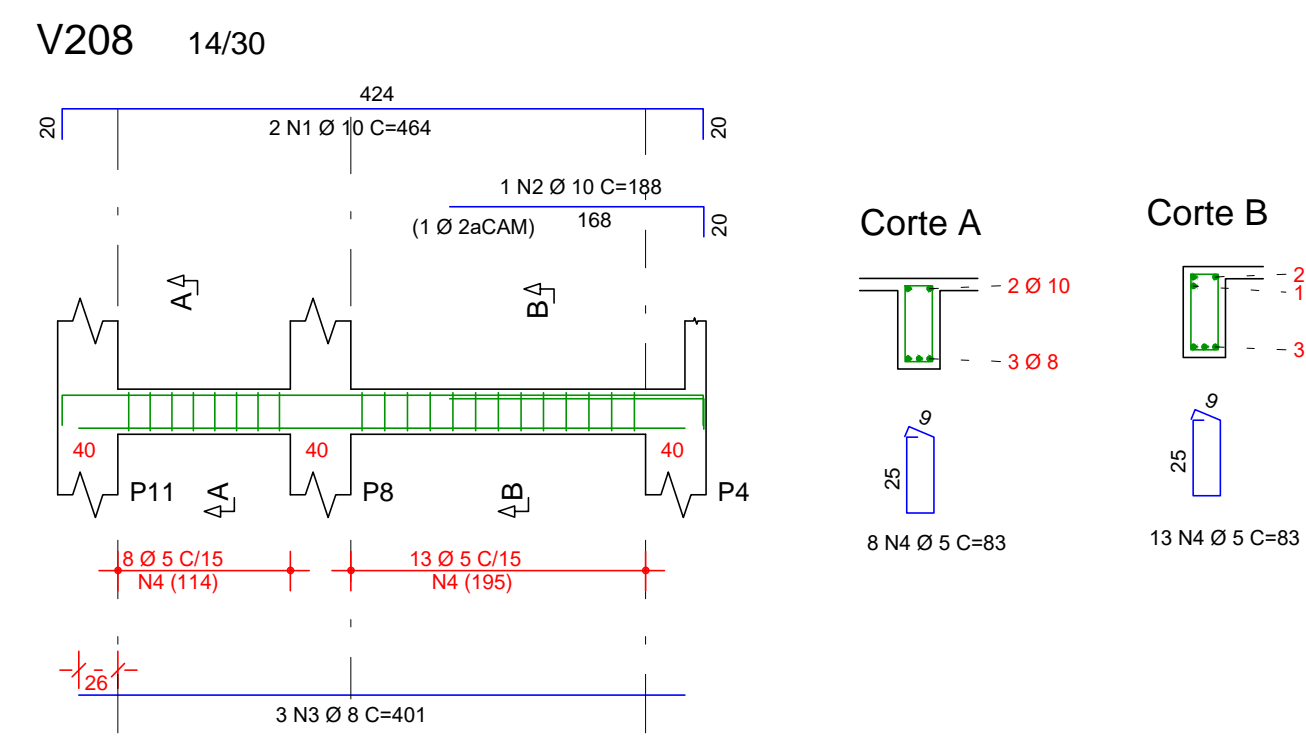
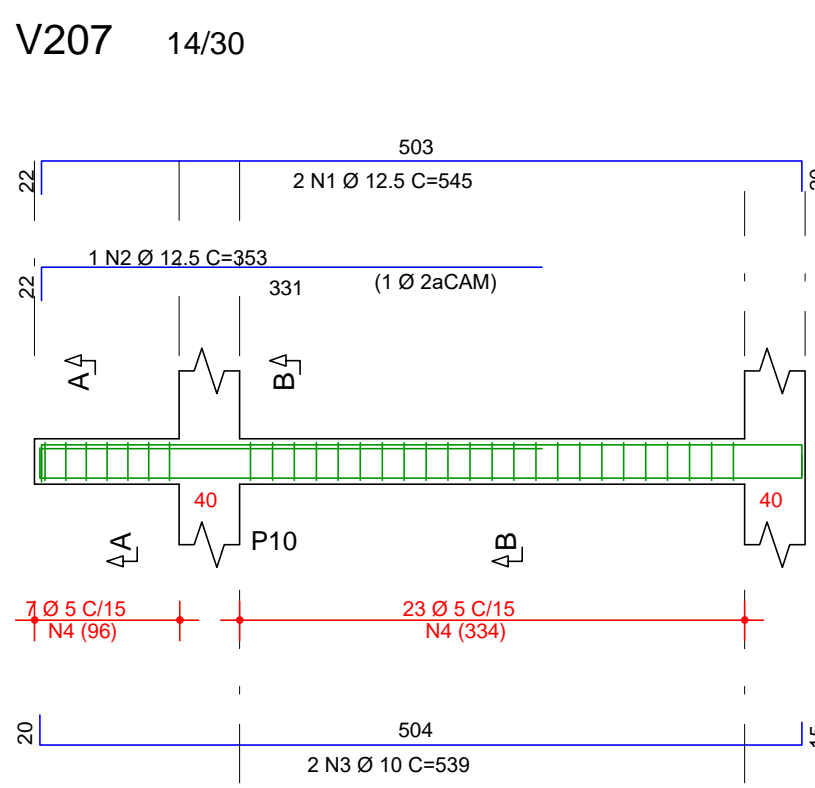
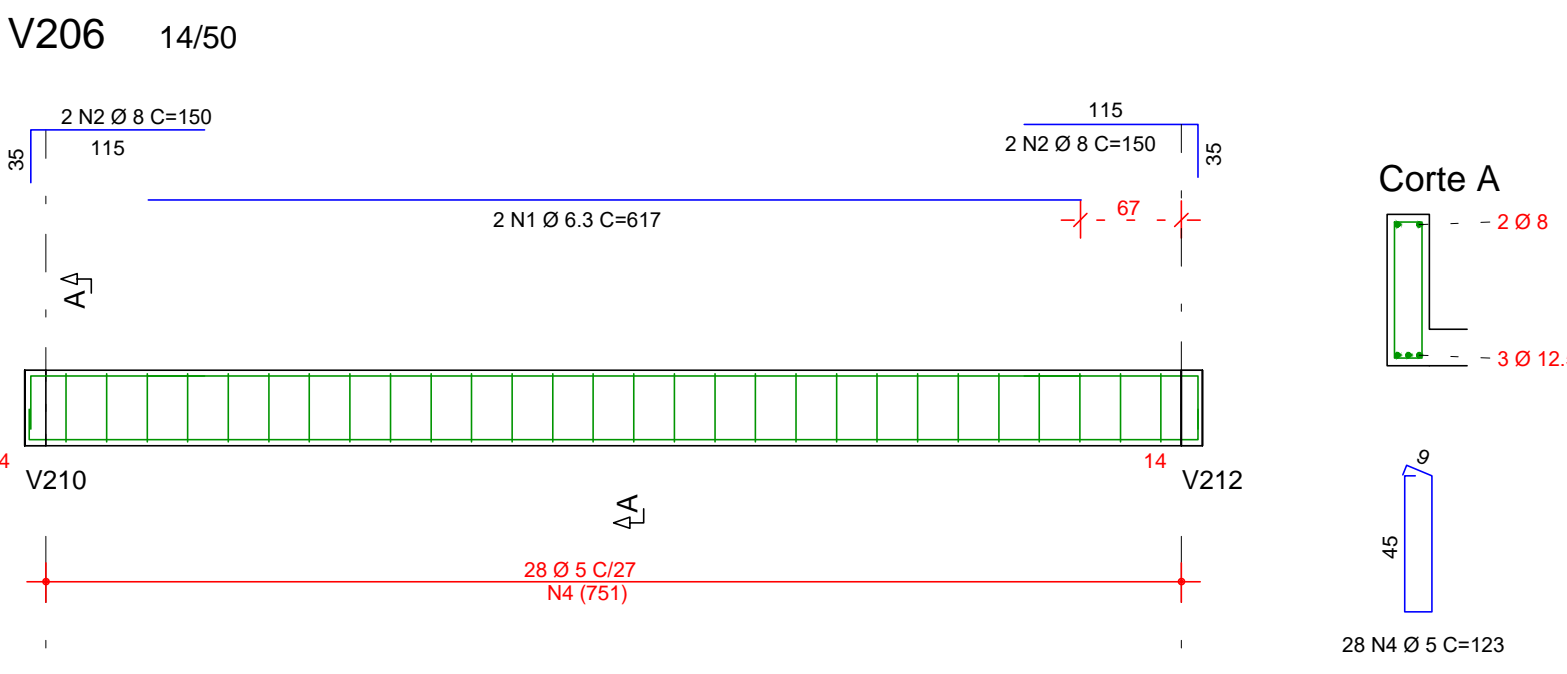
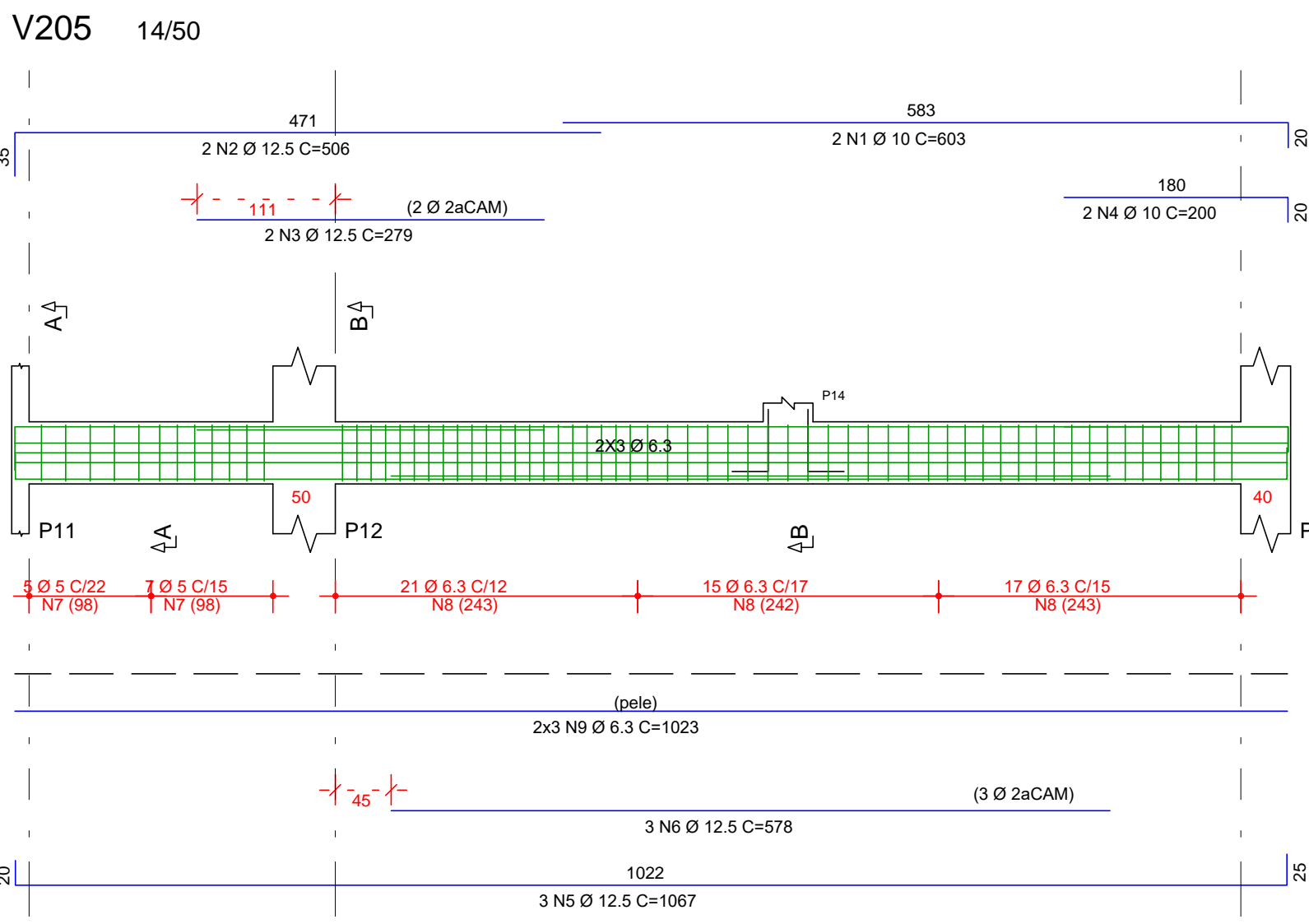
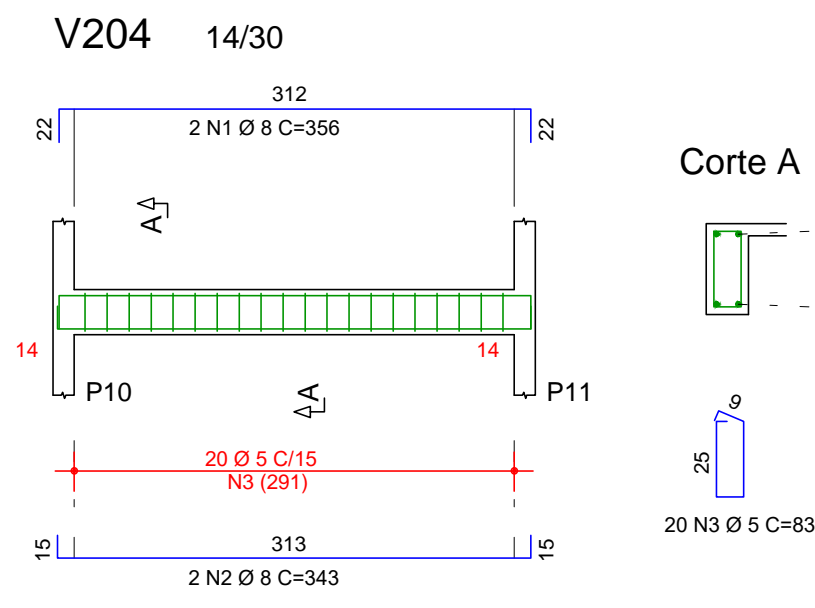


| | AÇO | POS | BIT (mm) | QUANT | COMPRIMENTO | |
|------|-----|-----|-------------|-------|--------------|---------------|
| | | | | | UNIT (cm) | TOTAL (cm) |
| V201 | 50 | 1 | 8 | 2 | 216 | 432 |
| | 50 | 2 | 8 | 2 | 177 | 354 |
| | 60 | 3 | 5 | 9 | 83 | 747 |
| V202 | 50 | 1 | 10 | 2 | 668 | 1336 |
| | 50 | 2 | 10 | 1 | 136 | 136 |
| | 50 | 3 | 10 | 2 | 772 | 1544 |
| | 50 | 4 | 10 | 1 | 185 | 185 |
| | 50 | 5 | 8 | 2 | 327 | 654 |
| | 50 | 6 | 10 | 3 | 622 | 1866 |
| | 50 | 7 | 8 | 2 | 407 | 814 |
| | 60 | 8 | 5 | 83 | 83 | 6889 |
| V203 | 60 | 9 | 5 | 4 | 639 | 2556 |
| | 50 | 1 | 8 | 2 | 261 | 522 |
| | 50 | 2 | 8 | 2 | 248 | 496 |
| V204 | 60 | 3 | 5 | 14 | 83 | 1162 |
| | 50 | 1 | 8 | 2 | 356 | 712 |
| | 50 | 2 | 8 | 2 | 343 | 686 |
| V205 | 60 | 3 | 5 | 20 | 83 | 1660 |
| | 50 | 1 | 10 | 2 | 603 | 1206 |
| | 50 | 2 | 12.5 | 2 | 506 | 1012 |
| | 50 | 3 | 12.5 | 2 | 279 | 558 |
| | 50 | 4 | 10 | 2 | 200 | 400 |
| | 50 | 5 | 12.5 | 3 | 1067 | 3201 |
| | 50 | 6 | 12.5 | 3 | 578 | 1734 |
| | 60 | 7 | 5 | 12 | 123 | 1476 |
| | 50 | 8 | 6.3 | 53 | 124 | 6572 |
| V206 | 50 | 9 | 6.3 | 6 | 1023 | 6138 |
| | 50 | 1 | 6.3 | 2 | 617 | 1234 |
| | 50 | 2 | 8 | 4 | 150 | 600 |
| V207 | 50 | 3 | 12.5 | 3 | 813 | 2439 |
| | 60 | 4 | 5 | 28 | 123 | 3444 |
| | 50 | 1 | 12.5 | 2 | 545 | 1090 |
| | 50 | 2 | 12.5 | 1 | 353 | 353 |
| V208 | 50 | 3 | 10 | 2 | 539 | 1078 |
| | 60 | 4 | 5 | 30 | 83 | 2490 |
| | 50 | 1 | 10 | 2 | 464 | 928 |
| | 50 | 2 | 10 | 1 | 188 | 188 |
| V209 | 50 | 3 | 8 | 3 | 401 | 1203 |
| | 60 | 4 | 5 | 21 | 83 | 1743 |
| | 50 | 1 | 8 | 2 | 229 | 458 |
| | 50 | 2 | 8 | 2 | 192 | 384 |
| V210 | 60 | 3 | 5 | 10 | 83 | 830 |
| | 50 | 1 | 10 | 2 | 172 | 344 |
| | 50 | 2 | 8 | 3 | 119 | 357 |
| V211 | 60 | 3 | 5 | 3 | 123 | 369 |
| | 50 | 1 | 8 | 2 | 246 | 492 |
| | 50 | 2 | 8 | 2 | 233 | 466 |
| V212 | 60 | 3 | 5 | 13 | 83 | 1079 |
| | 50 | 1 | 8 | 2 | 549 | 1098 |
| | 50 | 2 | 8 | 1 | 191 | 191 |
| | 50 | 3 | 8 | 1 | 155 | 155 |
| | 50 | 4 | 8 | 3 | 506 | 1518 |
| V213 | 60 | 5 | 5 | 17 | 123 | 2091 |
| | 50 | 1 | 8 | 2 | 270 | 540 |
| | 50 | 2 | 8 | 1 | 181 | 181 |
| | 50 | 3 | 8 | 2 | 217 | 434 |
| | 60 | 4 | 5 | 11 | 83 | 913 |

| RESUMO AÇO CA 50-60 | | | |
|---------------------|-------------|--------------|--------------|
| AÇO | BIT (mm) | COMPR (m) | PESO (kg) |
| 60 | 5 | 274 | 42 |
| 50 | 6.3 | 139 | 34 |
| 50 | 8 | 127 | 50 |
| 50 | 10 | 92 | 57 |
| 50 | 12.5 | 104 | 100 |
| Peso Total 60 = | | | 42 kg |
| Peso Total 50 = | | | 241 kg |

Eixo Faces
Volume de concreto de VIGAS (m³) 3.1 2.8



| CONTROLE DAS REVISÕES: | | |
|------------------------|------|-----------|
| REVISÃO | DATA | DESCRIÇÃO |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

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(44) 9.8827-4040 - yk@ykengeharia.com.br - Visite nosso site! http://www.ykengeharia.com.br

PROJETO:
ESTRUTURAL EM CONCRETO ARMADO

CLIENTE:
OLINTO DE CARVALHO
OBRA:
PARA CONSTRUÇÃO DE UMA EDIFICAÇÃO COMERCIAL EM CONCRETO ARMADO
LOCAL:
AVENIDA WALDEMAR ALLEGRETTI, 671 - JD. MUNIQUE - MARINGÁ - PR

REFERÊNCIA(S):
DETALHES DAS VIGAS DO MEZANINO.
REVISÃO:
R-00
PRANCHA:
07
RESPONSÁVEL TÉCNICO:
Engº Msc. Esp. Yutaka Mario Kobayashi Júnior
CREA PR-89.748/D
DATA CRIAÇÃO:
20/08/2020
FOK (MPa)
25 MPa
ART Nº:
NART
PROJETO Nº:
P-480
ESCALA:
1:50