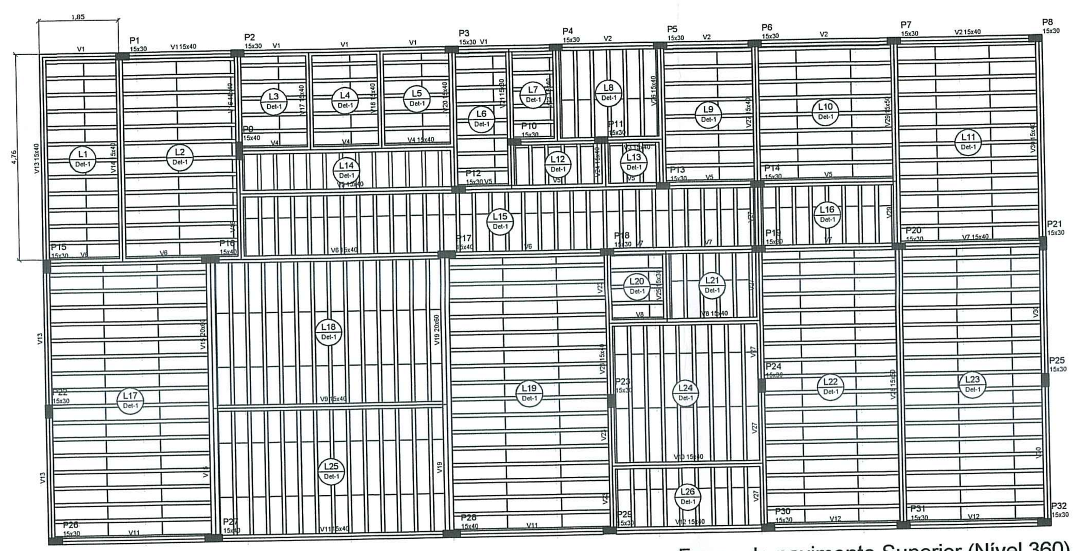
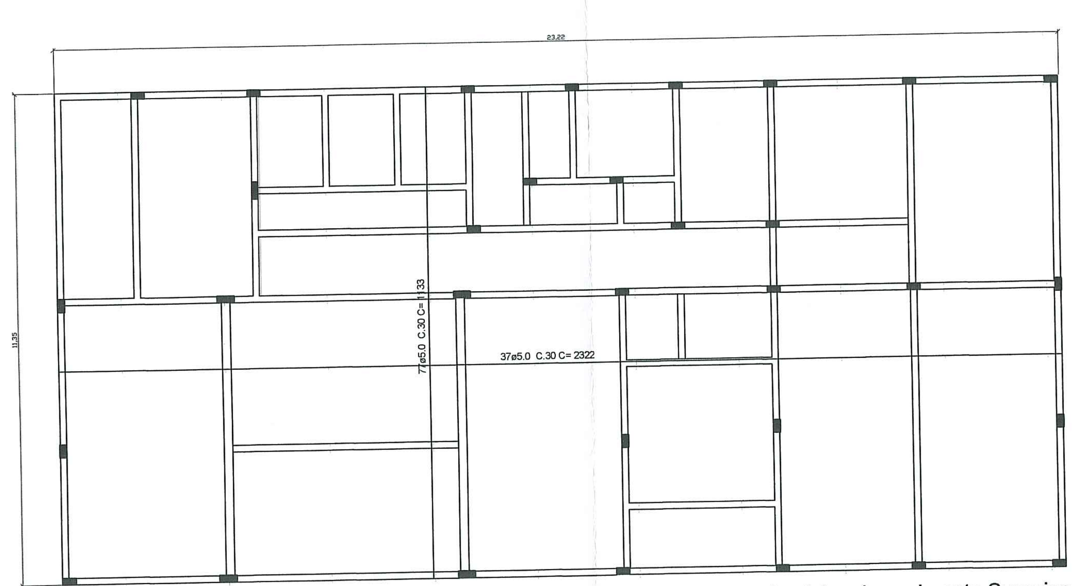


Forma do pavimento Superior (Nível 360)
escala 1:75



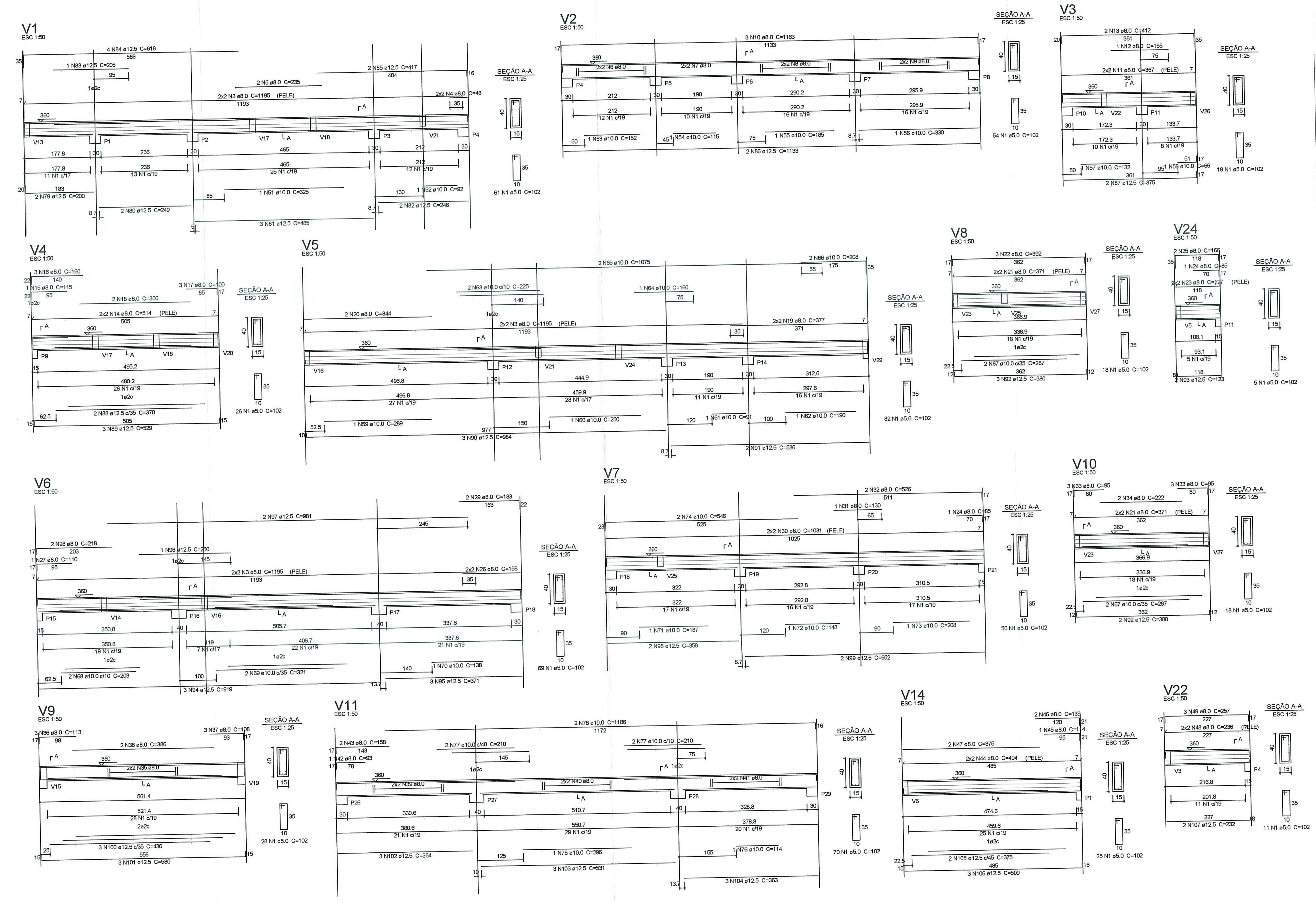
Armação Negativa das lajes do pavimento Superior
escala 1:75

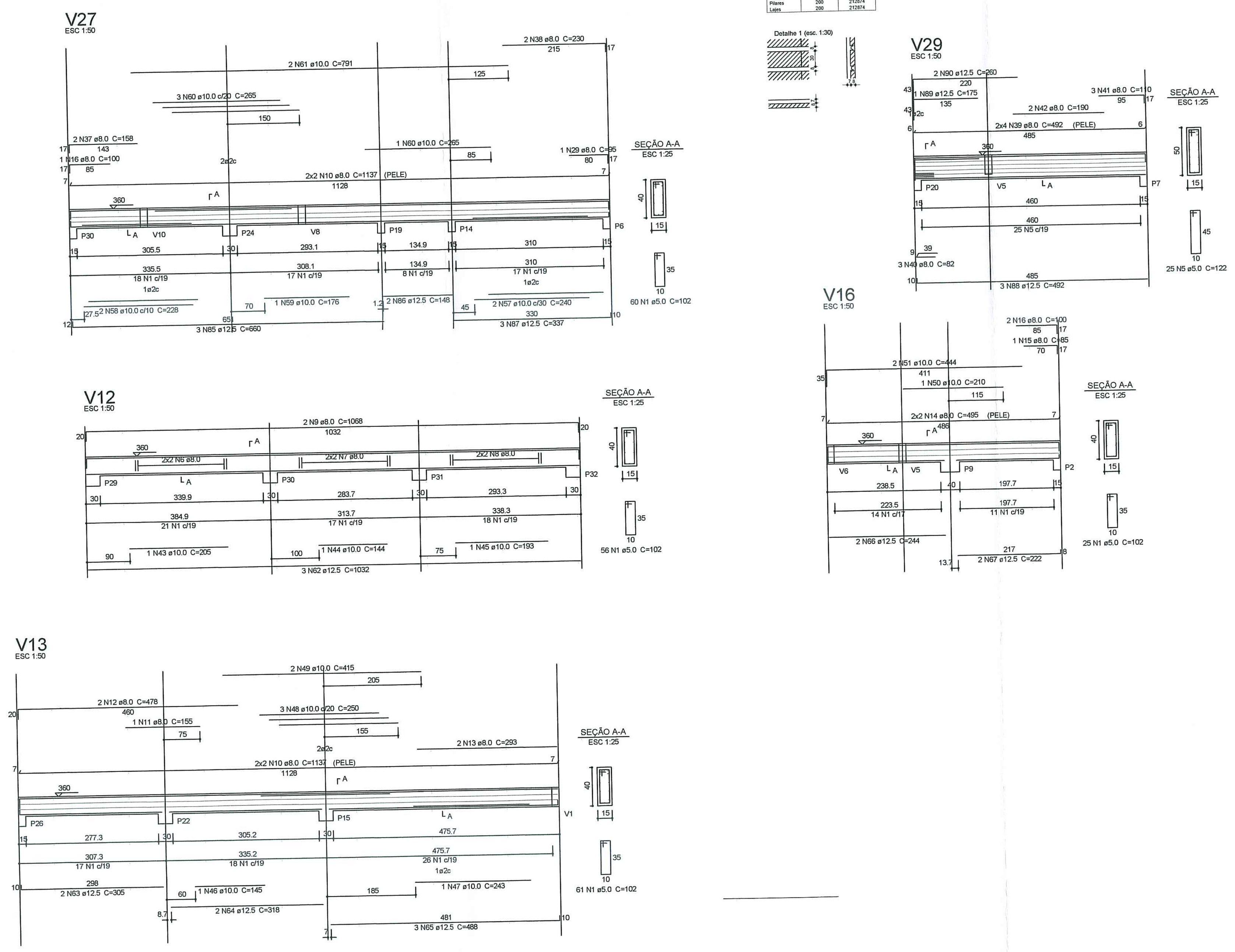
### Resumo do aço das lajes

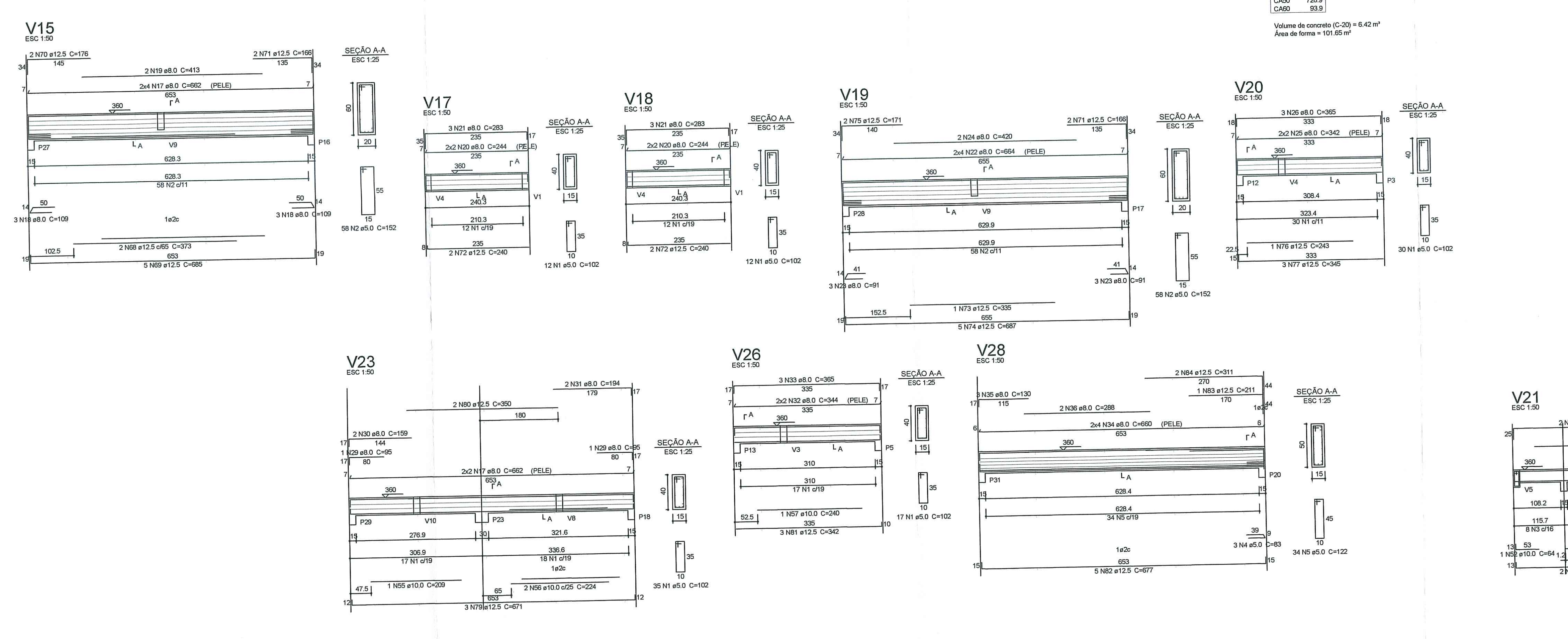
| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA60 | 5.0 | 1.733,1 | 294,6 |

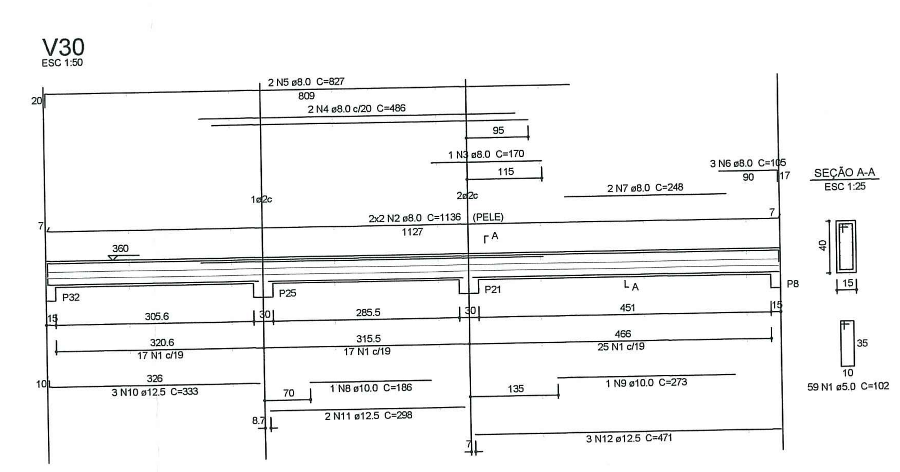
| PESO TOTAL (kg) | |
|---|---|
| CA60 | 294,6 |

Volume de concreto de recobrimento (C-20) = 18,45m³









## Relação do aço

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V14
V22 V24 V25

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 535 | 102 | 54570 |
| | 2 | 5.0 | 10 | 82 | 820 |
| CA50 | 3 | 8.0 | 12 | 1195 | 14340 |
| | 4 | 8.0 | 4 | 48 | 192 |
| | 5 | 8.0 | 2 | 235 | 470 |
| | 6 | 8.0 | 4 | CORR | 1068 |
| | 7 | 8.0 | 4 | CORR | 980 |
| | 8 | 8.0 | 4 | CORR | 1380 |
| | 9 | 8.0 | 4 | CORR | 1404 |
| | 10 | 8.0 | 3 | 1163 | 3489 |
| | 11 | 8.0 | 4 | 367 | 1468 |
| | 12 | 8.0 | 1 | 155 | 155 |
| | 13 | 8.0 | 2 | 412 | 824 |
| | 14 | 8.0 | 4 | 514 | 2056 |
| | 15 | 8.0 | 1 | 115 | 115 |
| | 16 | 8.0 | 3 | 160 | 480 |
| | 17 | 8.0 | 3 | 100 | 300 |
| | 18 | 8.0 | 2 | 300 | 600 |
| | 19 | 8.0 | 4 | 377 | 1508 |
| | 20 | 8.0 | 2 | 344 | 688 |
| | 21 | 8.0 | 8 | 371 | 2968 |
| | 22 | 8.0 | 3 | 392 | 1176 |
| | 23 | 8.0 | 4 | 127 | 508 |
| | 24 | 8.0 | 2 | 85 | 170 |
| | 25 | 8.0 | 2 | 166 | 332 |
| | 26 | 8.0 | 4 | 156 | 624 |
| | 27 | 8.0 | 1 | 110 | 110 |
| | 28 | 8.0 | 2 | 218 | 436 |
| | 29 | 8.0 | 2 | 183 | 366 |
| | 30 | 8.0 | 4 | 1031 | 4124 |
| | 31 | 8.0 | 1 | 130 | 130 |
| | 32 | 8.0 | 2 | 526 | 1052 |
| | 33 | 8.0 | 6 | 95 | 570 |
| | 34 | 8.0 | 2 | 222 | 444 |
| | 35 | 8.0 | 4 | CORR | 2224 |
| | 36 | 8.0 | 3 | 113 | 339 |
| | 37 | 8.0 | 3 | 108 | 324 |
| | 38 | 8.0 | 2 | 386 | 772 |
| | 39 | 8.0 | 4 | CORR | 1584 |
| | 40 | 8.0 | 4 | CORR | 2344 |
| | 41 | 8.0 | 4 | CORR | 1576 |
| | 42 | 8.0 | 1 | 93 | 93 |
| | 43 | 8.0 | 2 | 158 | 316 |
| | 44 | 8.0 | 4 | 494 | 1976 |
| | 45 | 8.0 | 1 | 114 | 114 |
| | 46 | 8.0 | 2 | 139 | 278 |
| | 47 | 8.0 | 2 | 375 | 750 |
| | 48 | 8.0 | 4 | 236 | 944 |
| | 49 | 8.0 | 3 | 257 | 771 |
| | 50 | 8.0 | 3 | 209 | 627 |
| | 51 | 10.0 | 1 | 325 | 325 |
| | 52 | 10.0 | 1 | 92 | 92 |
| | 53 | 10.0 | 1 | 152 | 152 |
| | 54 | 10.0 | 1 | 115 | 115 |
| | 55 | 10.0 | 1 | 185 | 185 |
| | 56 | 10.0 | 1 | 330 | 330 |
| | 57 | 10.0 | 1 | 132 | 132 |
| | 58 | 10.0 | 1 | 66 | 66 |
| | 59 | 10.0 | 1 | 289 | 289 |
| | 60 | 10.0 | 1 | 250 | 250 |
| | 61 | 10.0 | 1 | 91 | 91 |
| | 62 | 10.0 | 1 | 190 | 190 |
| | 63 | 10.0 | 2 | 225 | 450 |
| | 64 | 10.0 | 1 | 160 | 160 |
| | 65 | 10.0 | 2 | 1075 | 2150 |
| | 66 | 10.0 | 2 | 208 | 416 |
| | 67 | 10.0 | 4 | 287 | 1148 |
| | 68 | 10.0 | 2 | 203 | 406 |
| | 69 | 10.0 | 2 | 321 | 642 |
| | 70 | 10.0 | 1 | 138 | 138 |
| | 71 | 10.0 | 1 | 187 | 187 |
| | 72 | 10.0 | 1 | 148 | 148 |
| | 73 | 10.0 | 1 | 208 | 208 |
| | 74 | 10.0 | 2 | 546 | 1092 |
| | 75 | 10.0 | 1 | 296 | 296 |
| | 76 | 10.0 | 1 | 114 | 114 |
| | 77 | 10.0 | 4 | 210 | 840 |
| | 78 | 10.0 | 2 | 1186 | 2372 |
| | 79 | 12.5 | 2 | 200 | 400 |
| | 80 | 12.5 | 2 | 249 | 498 |
| | 81 | 12.5 | 3 | 485 | 1455 |
| | 82 | 12.5 | 2 | 246 | 492 |
| | 83 | 12.5 | 1 | 205 | 205 |
| | 84 | 12.5 | 4 | 618 | 2472 |
| | 85 | 12.5 | 2 | 417 | 834 |
| | 86 | 12.5 | 2 | 1133 | 2266 |
| | 87 | 12.5 | 2 | 375 | 750 |
| | 88 | 12.5 | 2 | 370 | 740 |
| | 89 | 12.5 | 3 | 529 | 1587 |
| | 90 | 12.5 | 3 | 984 | 2952 |
| | 91 | 12.5 | 2 | 536 | 1072 |
| | 92 | 12.5 | 5 | 380 | 1900 |
| | 93 | 12.5 | 2 | 123 | 246 |
| | 94 | 12.5 | 3 | 919 | 2757 |
| | 95 | 12.5 | 3 | 371 | 1113 |
| | 96 | 12.5 | 1 | 250 | 250 |
| | 97 | 12.5 | 2 | 981 | 1962 |
| | 98 | 12.5 | 2 | 358 | 716 |
| | 99 | 12.5 | 2 | 652 | 1304 |
| | 100 | 12.5 | 3 | 436 | 1308 |
| | 101 | 12.5 | 3 | 580 | 1740 |
| | 102 | 12.5 | 3 | 364 | 1092 |
| | 103 | 12.5 | 3 | 531 | 1593 |
| | 104 | 12.5 | 3 | 363 | 1089 |
| | 105 | 12.5 | 2 | 375 | 750 |
| | 106 | 12.5 | 3 | 509 | 1527 |
| | 107 | 12.5 | 2 | 232 | 464 |
| | 108 | 12.5 | 2 | 180 | 360 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 8.0 | 595.6 | 258.5 |
| | 10.0 | 129.9 | 88.1 |
| | 12.5 | 359 | 380.4 |
| CA60 | 5.0 | 553.9 | 93.9 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 726.9 |
| CA60 | 93.9 |

Volume de concreto (C-20) = 6.42 m³
Área de forma = 101.65 m²

## Relação do aço

V12 V13 V15
V16 V17 V18
V19 V20 V21
V23 V26 V27
V28 V29

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 308 | 102 | 31416 |
| | 2 | 5.0 | 116 | 152 | 17632 |
| | 3 | 5.0 | 22 | 82 | 1804 |
| | 4 | 5.0 | 3 | 83 | 249 |
| | 5 | 5.0 | 59 | 122 | 7198 |
| CA50 | 6 | 8.0 | 4 | CORR | 1580 |
| | 7 | 8.0 | 4 | CORR | 1356 |
| | 8 | 8.0 | 4 | CORR | 1392 |
| | 9 | 8.0 | 2 | 1068 | 2136 |
| | 10 | 8.0 | 8 | 1137 | 9096 |
| | 11 | 8.0 | 1 | 155 | 155 |
| | 12 | 8.0 | 2 | 478 | 956 |
| | 13 | 8.0 | 2 | 293 | 586 |
| | 14 | 8.0 | 4 | 495 | 1980 |
| | 15 | 8.0 | 1 | 85 | 85 |
| | 16 | 8.0 | 3 | 100 | 300 |
| | 17 | 8.0 | 12 | 662 | 7944 |
| | 18 | 8.0 | 6 | 109 | 654 |
| | 19 | 8.0 | 2 | 413 | 826 |
| | 20 | 8.0 | 8 | 244 | 1952 |
| | 21 | 8.0 | 6 | 283 | 1698 |
| | 22 | 8.0 | 8 | 664 | 5312 |
| | 23 | 8.0 | 6 | 91 | 546 |
| | 24 | 8.0 | 2 | 420 | 840 |
| | 25 | 8.0 | 4 | 342 | 1368 |
| | 26 | 8.0 | 3 | 365 | 1095 |
| | 27 | 8.0 | 1 | 309 | 309 |
| | 28 | 8.0 | 2 | 380 | 760 |
| | 29 | 8.0 | 3 | 95 | 285 |
| | 30 | 8.0 | 2 | 159 | 318 |
| | 31 | 8.0 | 2 | 194 | 388 |
| | 32 | 8.0 | 4 | 344 | 1376 |
| | 33 | 8.0 | 3 | 365 | 1095 |
| | 34 | 8.0 | 8 | 660 | 5280 |
| | 35 | 8.0 | 3 | 130 | 390 |
| | 36 | 8.0 | 2 | 288 | 576 |
| | 37 | 8.0 | 2 | 158 | 316 |
| | 38 | 8.0 | 2 | 230 | 460 |
| | 39 | 8.0 | 8 | 492 | 3936 |
| | 40 | 8.0 | 3 | 82 | 246 |
| | 41 | 8.0 | 3 | 110 | 330 |
| | 42 | 8.0 | 2 | 190 | 380 |
| | 43 | 10.0 | 1 | 205 | 205 |
| | 44 | 10.0 | 1 | 144 | 144 |
| | 45 | 10.0 | 1 | 193 | 193 |
| | 46 | 10.0 | 1 | 145 | 145 |
| | 47 | 10.0 | 1 | 243 | 243 |
| | 48 | 10.0 | 3 | 250 | 750 |
| | 49 | 10.0 | 2 | 415 | 830 |
| | 50 | 10.0 | 1 | 210 | 210 |
| | 51 | 10.0 | 2 | 444 | 888 |
| | 52 | 10.0 | 1 | 64 | 64 |
| | 53 | 10.0 | 1 | 226 | 226 |
| | 54 | 10.0 | 1 | 103 | 103 |
| | 55 | 10.0 | 1 | 209 | 209 |
| | 56 | 10.0 | 2 | 224 | 448 |
| | 57 | 10.0 | 3 | 240 | 720 |
| | 58 | 10.0 | 2 | 228 | 456 |
| | 59 | 10.0 | 1 | 176 | 176 |
| | 60 | 10.0 | 4 | 265 | 1060 |
| | 61 | 10.0 | 2 | 791 | 1582 |
| | 62 | 12.5 | 3 | 1032 | 3096 |
| | 63 | 12.5 | 2 | 305 | 610 |
| | 64 | 12.5 | 2 | 318 | 636 |
| | 65 | 12.5 | 3 | 488 | 1464 |
| | 66 | 12.5 | 2 | 244 | 488 |
| | 67 | 12.5 | 2 | 222 | 444 |
| | 68 | 12.5 | 2 | 373 | 746 |
| | 69 | 12.5 | 5 | 685 | 3425 |
| | 70 | 12.5 | 2 | 176 | 352 |
| | 71 | 12.5 | 4 | 166 | 664 |
| | 72 | 12.5 | 4 | 240 | 960 |
| | 73 | 12.5 | 1 | 335 | 335 |
| | 74 | 12.5 | 5 | 687 | 3435 |
| | 75 | 12.5 | 2 | 171 | 342 |
| | 76 | 12.5 | 1 | 243 | 243 |
| | 77 | 12.5 | 3 | 345 | 1035 |
| | 78 | 12.5 | 2 | 349 | 698 |
| | 79 | 12.5 | 3 | 671 | 2013 |
| | 80 | 12.5 | 2 | 350 | 700 |
| | 81 | 12.5 | 3 | 342 | 1026 |
| | 82 | 12.5 | 5 | 677 | 3385 |
| | 83 | 12.5 | 1 | 211 | 211 |
| | 84 | 12.5 | 2 | 311 | 622 |
| | 85 | 12.5 | 3 | 660 | 1980 |
| | 86 | 12.5 | 2 | 148 | 296 |
| | 87 | 12.5 | 3 | 337 | 1011 |
| | 88 | 12.5 | 3 | 492 | 1476 |
| | 89 | 12.5 | 1 | 175 | 175 |
| | 90 | 12.5 | 2 | 260 | 520 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 8.0 | 583.1 | 253.1 |
| | 10.0 | 86.6 | 58.7 |
| | 12.5 | 323.9 | 343.2 |
| CA60 | 5.0 | 583 | 98.8 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 654.9 |
| CA60 | 98.8 |

Volume de concreto (C-20) = 5.96 m³
Área de forma = 87.52 m²

## Relação do aço

V30

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 59 | 102 | 6018 |
| CA50 | 2 | 8.0 | 4 | 1136 | 4544 |
| | 3 | 8.0 | 1 | 170 | 170 |
| | 4 | 8.0 | 2 | 486 | 972 |
| | 5 | 8.0 | 2 | 827 | 1654 |
| | 6 | 8.0 | 3 | 105 | 315 |
| | 7 | 8.0 | 2 | 248 | 496 |
| | 8 | 10.0 | 1 | 186 | 186 |
| | 9 | 10.0 | 1 | 273 | 273 |
| | 10 | 12.5 | 3 | 333 | 999 |
| | 11 | 12.5 | 2 | 298 | 596 |
| | 12 | 12.5 | 3 | 471 | 1413 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 8.0 | 81.6 | 35.4 |
| | 10.0 | 4.6 | 3.1 |
| | 12.5 | 30.1 | 31.9 |
| CA60 | 5.0 | 60.2 | 10.2 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 70.4 |
| CA60 | 10.2 |

Volume de concreto (C-20) = 0.68 m³
Área de forma = 10.75 m²

| | |
|---|---|
| APROVO CREA: | APROVO PREFEITURA: |
| PROPRIETÁRIO: Prefeitura Municipal de Axixá do Tocantins — Damião Castro Filho — Prefeito de Axixá-TO — Adm. 2017/2020 | RESP.TECNICO: José Ribamar de Oliveira Filho — Engenheiro Civil — RNP: 150571043O — Eng Civil José Ribamar de Oliveira Filho — CREA:7.085 D / PA |
| ARQUIVO: | Centro de Convivência do Idoso |
| OBS.: | PROJETO: ESTRUTURAL |
| ÁREAS: CONSTRUÇÃO: 265,70m² TERRENO: 450,00m² | LOCAL: Rua do Mercado, s/nº - Centro - Axixá do Tocantins - TO — CONTEÚDO: FORMA SUPERIOR, VIGAS E QUADROS DE FERROS |
| DATA: JAN. / 2020 | ESCALA: 1/75 — DESENHO: — PRANCHA: 03/03 |