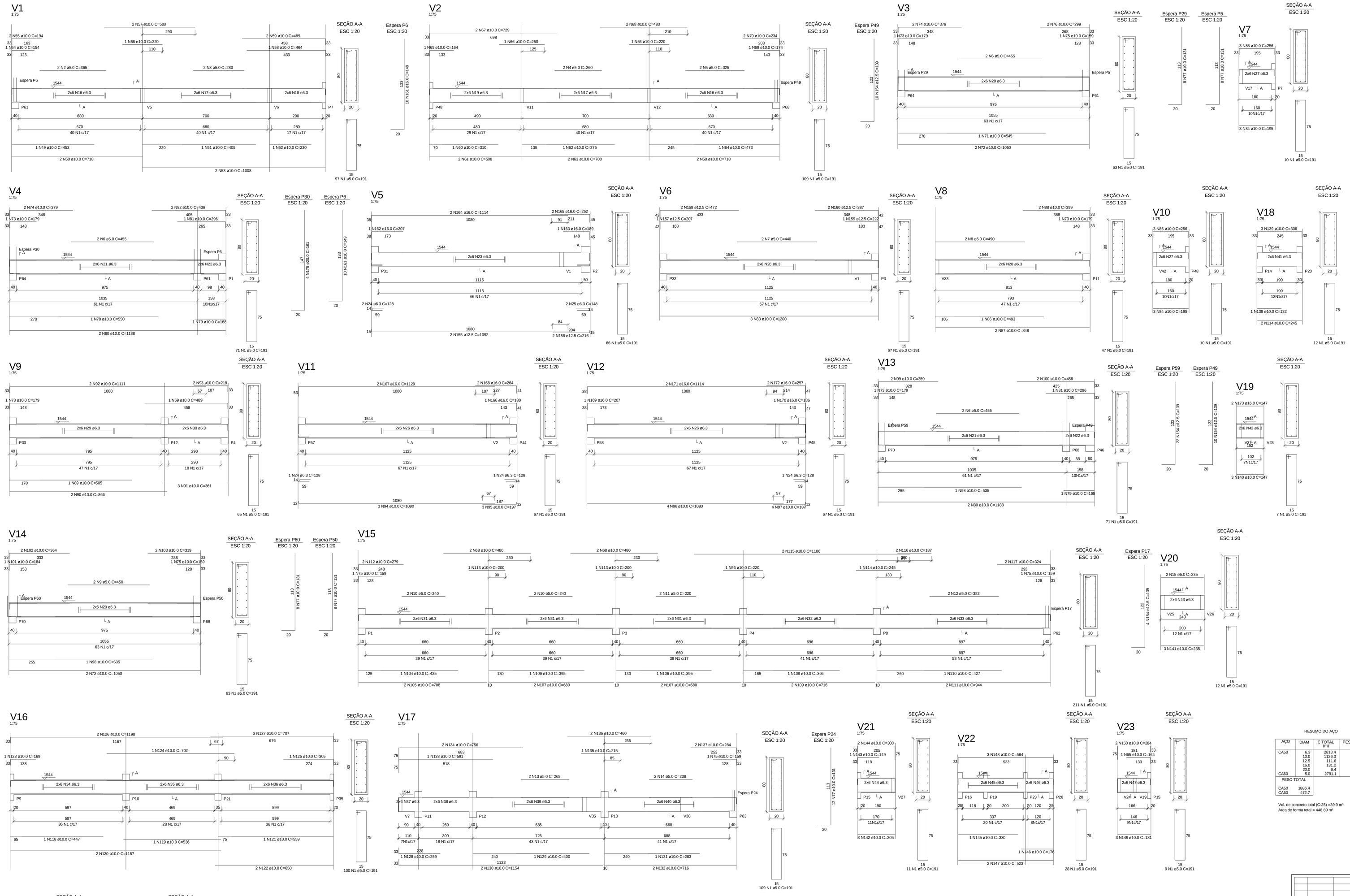


RELAÇÃO DO AÇO

| | | | |
|---|---|---|---|
| V1 | V2 | V3 | |
| V4 | V5 | V6 | |
| V7 | V8 | V9 | |
| V10 | V11 | V12 | |
| V13 | V14 | V15 | |
| V16 | V17 | V18 | |
| V19 | V20 | V21 | |
| V22 | V23 | V24 | |
| V25 | | | |

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| 60 | 1 | 5.0 | 1397 | 191 | 266827 |
| | 2 | 5.0 | 2 | 365 | 730 |
| | 3 | 5.0 | 2 | 280 | 560 |
| | 4 | 5.0 | 2 | 260 | 520 |
| | 5 | 5.0 | 2 | 325 | 650 |
| | 6 | 5.0 | 2 | 455 | 910 |
| | 7 | 5.0 | 2 | 440 | 880 |
| | 8 | 5.0 | 2 | 490 | 980 |
| | 9 | 5.0 | 2 | 450 | 900 |
| | 10 | 5.0 | 4 | 240 | 960 |
| | 11 | 5.0 | 2 | 220 | 440 |
| | 12 | 5.0 | 2 | 382 | 764 |
| | 13 | 5.0 | 2 | 265 | 530 |
| | 14 | 5.0 | 2 | 238 | 476 |
| | 15 | 5.0 | 2 | 235 | 470 |
| 50 | 16 | 6.3 | 24 | corr | 16080 |
| | 17 | 6.3 | 24 | corr | 16320 |
| | 18 | 6.3 | 12 | corr | 3360 |
| | 19 | 6.3 | 12 | corr | 5760 |
| | 20 | 6.3 | 24 | corr | 25320 |
| | 21 | 6.3 | 24 | corr | 24840 |
| | 22 | 6.3 | 24 | corr | 3792 |
| | 23 | 6.3 | 12 | corr | 13380 |
| | 24 | 6.3 | 5 | 128 | 640 |
| | 25 | 6.3 | 2 | 148 | 296 |
| | 26 | 6.3 | 36 | corr | 40500 |
| | 27 | 6.3 | 24 | corr | 3840 |
| | 28 | 6.3 | 12 | corr | 9540 |
| | 29 | 6.3 | 12 | corr | 9540 |
| | 30 | 6.3 | 12 | corr | 3960 |
| | 31 | 6.3 | 36 | corr | 23760 |
| | 32 | 6.3 | 12 | corr | 8352 |
| | 33 | 6.3 | 12 | corr | 10754 |
| | 34 | 6.3 | 12 | corr | 7164 |
| | 35 | 6.3 | 12 | corr | 5428 |
| | 36 | 6.3 | 12 | corr | 7188 |
| | 37 | 6.3 | 12 | corr | 1320 |
| | 38 | 6.3 | 12 | corr | 3600 |
| | 39 | 6.3 | 12 | corr | 8700 |
| | 40 | 6.3 | 12 | corr | 8256 |
| | 41 | 6.3 | 12 | corr | 2280 |
| | 42 | 6.3 | 12 | corr | 1224 |
| | 43 | 6.3 | 12 | corr | 2400 |
| | 44 | 6.3 | 24 | corr | 4080 |
| | 45 | 6.3 | 12 | corr | 4044 |
| | 46 | 6.3 | 12 | corr | 1440 |
| | 47 | 6.3 | 12 | corr | 1752 |
| | 48 | 6.3 | 12 | corr | 2724 |
| | 49 | 10.0 | 1 | 453 | 453 |
| | 50 | 10.0 | 4 | 718 | 2872 |
| | 51 | 10.0 | 1 | 405 | 405 |
| | 52 | 10.0 | 1 | 230 | 230 |
| | 53 | 10.0 | 2 | 1008 | 2016 |
| | 54 | 10.0 | 1 | 154 | 154 |
| | 55 | 10.0 | 2 | 194 | 388 |
| | 56 | 10.0 | 3 | 220 | 660 |
| | 57 | 10.0 | 2 | 500 | 1000 |
| | 58 | 10.0 | 1 | 464 | 464 |
| | 59 | 10.0 | 3 | 489 | 1467 |
| | 60 | 10.0 | 1 | 310 | 310 |
| | 61 | 10.0 | 2 | 508 | 1016 |
| | 62 | 10.0 | 1 | 375 | 375 |
| | 63 | 10.0 | 2 | 700 | 1400 |
| | 64 | 10.0 | 1 | 473 | 473 |
| | 65 | 10.0 | 2 | 164 | 328 |
| | 66 | 10.0 | 1 | 250 | 250 |
| | 67 | 10.0 | 2 | 729 | 1458 |
| | 68 | 10.0 | 6 | 480 | 2880 |
| | 69 | 10.0 | 1 | 174 | 174 |
| | 70 | 10.0 | 2 | 224 | 448 |
| | 71 | 10.0 | 4 | 246 | 984 |
| | 72 | 10.0 | 5 | 210 | 1050 |
| | 73 | 10.0 | 5 | 179 | 895 |
| | 74 | 10.0 | 4 | 379 | 1516 |
| | 75 | 10.0 | 5 | 159 | 795 |
| | 76 | 10.0 | 2 | 299 | 598 |
| | 77 | 10.0 | 44 | 131 | 5764 |
| | 78 | 10.0 | 1 | 550 | 550 |
| | 79 | 10.0 | 2 | 168 | 336 |
| | 80 | 10.0 | 4 | 1188 | 4752 |
| | 81 | 10.0 | 2 | 296 | 592 |
| | 82 | 10.0 | 2 | 436 | 872 |
| | 83 | 10.0 | 3 | 1200 | 3600 |
| | 84 | 10.0 | 6 | 195 | 1170 |
| | 85 | 10.0 | 6 | 256 | 1536 |
| | 86 | 10.0 | 1 | 493 | 493 |
| | 87 | 10.0 | 2 | 848 | 1696 |
| | 88 | 10.0 | 2 | 399 | 798 |
| | 89 | 10.0 | 1 | 505 | 505 |
| | 90 | 10.0 | 2 | 866 | 1732 |
| | 91 | 10.0 | 3 | 361 | 1083 |
| | 92 | 10.0 | 2 | 1111 | 2222 |
| | 93 | 10.0 | 2 | 218 | 436 |
| | 94 | 10.0 | 3 | 1090 | 3270 |
| | 95 | 10.0 | 3 | 197 | 591 |
| | 96 | 10.0 | 4 | 1080 | 4320 |
| | 97 | 10.0 | 4 | 187 | 748 |
| | 98 | 10.0 | 2 | 535 | 1070 |
| | 99 | 10.0 | 2 | 359 | 718 |
| | 100 | 10.0 | 2 | 456 | 912 |
| | 101 | 10.0 | 1 | 184 | 184 |
| | 102 | 10.0 | 2 | 364 | 728 |
| | 103 | 10.0 | 2 | 319 | 638 |
| | 104 | 10.0 | 1 | 425 | 425 |
| | 105 | 10.0 | 2 | 708 | 1416 |
| | 106 | 10.0 | 2 | 395 | 790 |
| | 107 | 10.0 | 4 | 680 | 2720 |
| | 108 | 10.0 | 1 | 366 | 366 |
| | 109 | 10.0 | 2 | 716 | 1432 |
| | 110 | 10.0 | 1 | 427 | 427 |
| | 111 | 10.0 | 2 | 944 | 1888 |
| | 112 | 10.0 | 2 | 279 | 558 |
| | 113 | 10.0 | 2 | 200 | 400 |
| | 114 | 10.0 | 3 | 245 | 735 |
| | 115 | 10.0 | 2 | 1186 | 2372 |
| | 116 | 10.0 | 2 | 187 | 374 |
| | 117 | 10.0 | 2 | 324 | 648 |
| | 118 | 10.0 | 1 | 447 | 447 |
| | 119 | 10.0 | 1 | 536 | 536 |
| | 120 | 10.0 | 2 | 1157 | 2314 |
| | 121 | 10.0 | 1 | 559 | 559 |
| | 122 | 10.0 | 2 | 650 | 1300 |
| | 123 | 10.0 | 1 | 169 | 169 |
| | 124 | 10.0 | 1 | 702 | 702 |
| | 125 | 10.0 | 1 | 305 | 305 |
| | 126 | 10.0 | 2 | 1198 | 2396 |
| | 127 | 10.0 | 2 | 707 | 1414 |
| | 128 | 10.0 | 1 | 259 | 259 |
| | 129 | 10.0 | 1 | 400 | 400 |
| | 130 | 10.0 | 2 | 1154 | 2308 |
| | 131 | 10.0 | 1 | 283 | 283 |
| | 132 | 10.0 | 2 | 716 | 1432 |
| | 133 | 10.0 | 1 | 591 | 591 |
| | 134 | 10.0 | 2 | 756 | 1512 |
| | 135 | 10.0 | 1 | 215 | 215 |
| | 136 | 10.0 | 2 | 460 | 920 |
| | 137 | 10.0 | 2 | 284 | 568 |
| | 138 | 10.0 | 1 | 132 | 132 |
| | 139 | 10.0 | 3 | 306 | 918 |
| | 140 | 10.0 | 3 | 147 | 441 |
| | 141 | 10.0 | 3 | 235 | 705 |
| | 142 | 10.0 | 5 | 205 | 1025 |
| | 143 | 10.0 | 1 | 149 | 149 |
| | 144 | 10.0 | 2 | 308 | 616 |
| | 145 | 10.0 | 1 | 330 | 330 |
| | 146 | 10.0 | 1 | 176 | 176 |
| | 147 | 10.0 | 2 | 523 | 1046 |
| | 148 | 10.0 | 3 | 584 | 1752 |
| | 149 | 10.0 | 3 | 181 | 543 |
| | 150 | 10.0 | 2 | 284 | 568 |
| | 151 | 10.0 | 1 | 158 | 158 |
| | 152 | 10.0 | 3 | 267 | 801 |
| | 153 | 10.0 | 3 | 328 | 984 |
| | 154 | 12.5 | 46 | 139 | 6394 |
| | 155 | 12.5 | 2 | 1092 | 2184 |
| | 156 | 12.5 | 2 | 216 | 432 |
| | 157 | 12.5 | 1 | 207 | 207 |
| | 158 | 12.5 | 2 | 126 | 252 |
| | 159 | 12.5 | 1 | 222 | 222 |
| | 160 | 12.5 | 2 | 387 | 774 |
| | 161 | 16.0 | 20 | 149 | 2980 |
| | 162 | 16.0 | 2 | 207 | 207 |
| | 163 | 16.0 | 1 | 189 | 189 |
| | 164 | 16.0 | 2 | 1114 | 2228 |
| | 165 | 16.0 | 2 | 252 | 504 |
| | 166 | 16.0 | 1 | 180 | 180 |
| | 167 | 16.0 | 2 | 1129 | 2258 |
| | 168 | 16.0 | 2 | 264 | 528 |
| | 169 | 16.0 | 1 | 207 | 207 |
| | 170 | 16.0 | 1 | 186 | 186 |
| | 171 | 16.0 | 2 | 1114 | 2228 |
| | 172 | 16.0 | 2 | 257 | 514 |
| | 173 | 16.0 | 2 | 147 | 294 |
| | 174 | 16.0 | 2 | 305 | 610 |
| | 175 | 20.0 | 4 | 161 | 644 |

RESUMO DO AÇO

| AÇO | DIAM | C.TOTAL (m) | PESO+10% (kg) |
|---|---|---|---|
| CA50 | 6.3 | 2813.4 | 768.5 |
| | 10.0 | 1126.0 | 763.9 |
| | 12.5 | 111.6 | 118.4 |
| | 16.0 | 131.2 | 228.1 |
| | 20.0 | 6.4 | 17.5 |
| CA60 | 5.0 | 2791.1 | 472.7 |
| PESO TOTAL | | | |
| CA50 | 1886.4 | | |
| CA60 | 472.7 | | |

Vol. de concreto total (C-25) =39.9 m³
Área de forma total = 448.89 m²

| Nº: | DATA: | RESPONSÁVEL: | DESCRIÇÃO DA REVISÃO: |
|---|---|---|---|
| | | | |

FASE: PROJETO DE CÁLCULO ESTRUTURAL

OBSERVAÇÕES: CONFERIR MEDIDAS NA OBRA

CENTRO DE ESTUDOS DA HUMANIDADE
CAMPUS JK / DIAMANTINA
RODOVIA MG 367, KM 583, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI
CNPJ: 16.888.315/0001-57

TÍTULO: VIGAS PAVIMENTO BALDRAME

AUTOR PROJETO ESTRUTURAL / RT: ANDRÉ FERNANDO DA SILVA
CREA 78499/D - MG

DETALHAMENTO: ANDRÉ FERNANDO DA SILVA
CREA 78499/D - MG

| VERSÃO: | DATA: | AUTOCAD: | FOLHA: |
|---|---|---|---|
| VERSAO 1 | 03.02.2011 | | 12/24 |

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