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NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

| PROJ. REFERENCE NO. | SHEET NO. |
|---------------------|-----------|
| U-2412A             | X-1C      |

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

## CROSS-SECTION SUMMARY

| Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         |
|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|
| L              | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | L              | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | L              | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | L              | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        |
| 115+00.00      | 248               | 805              | 0                | 138+64.40      | 0                 | 4107             | 0                | 165+00.00      | 9628              | 0                | 0                | 189+00.00      | 0                 | 1338             | 0                |
| 115+50.00      | 6                 | 1968             | 0                |                |                   |                  |                  | 165+50.00      | 8346              | 0                | 0                | 189+50.00      | 0                 | 2879             | 0                |
| 116+00.00      | 2                 | 2745             | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 166+00.00      | 7799              | 0                | 0                | 190+00.00      | 0                 | 4396             | 0                |
| 116+50.00      | 3                 | 2857             | 0                | <b>L</b>       | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 166+50.00      | 8642              | 0                | 0                | 190+50.00      | 0                 | 4791             | 0                |
| 117+00.00      | 1                 | 3059             | 0                |                |                   |                  |                  | 167+00.00      | 10186             | 0                | 0                | 191+00.00      | 0                 | 4155             | 0                |
| 117+50.00      | 0                 | 3527             | 0                | 141+68.37      | 0                 | 0                | 0                | 167+50.00      | 11708             | 0                | 0                | 191+50.00      | 0                 | 3709             | 0                |
| 118+00.00      | 0                 | 4495             | 0                | 142+21.51      | 0                 | 6521             | 0                | 168+00.00      | 12752             | 0                | 0                | 192+00.00      | 0                 | 3537             | 0                |
| 118+50.00      | 0                 | 6198             | 0                | 142+50.00      | 0                 | 3942             | 0                | 168+50.00      | 13156             | 0                | 0                | 192+50.00      | 0                 | 3347             | 0                |
| 119+00.00      | 0                 | 8761             | 0                | 143+00.00      | 952               | 781              | 0                | 169+00.00      | 12987             | 0                | 0                | 193+00.00      | 0                 | 3063             | 0                |
| 119+50.00      | 0                 | 10731            | 0                | 143+50.00      | 2054              | 0                | 0                | 169+50.00      | 12216             | 0                | 0                | 193+50.00      | 0                 | 2697             | 0                |
| 120+00.00      | 0                 | 11540            | 0                | 144+00.00      | 3284              | 0                | 0                | 170+00.00      | 10950             | 0                | 0                | 194+00.00      | 0                 | 2103             | 0                |
| 120+50.00      | 0                 | 11933            | 0                | 144+50.00      | 5582              | 0                | 0                | 170+50.00      | 9396              | 0                | 0                | 194+50.00      | 0                 | 1295             | 0                |
| 121+00.00      | 0                 | 11909            | 0                | 145+00.00      | 7503              | 0                | 0                | 171+00.00      | 7459              | 0                | 0                | 195+00.00      | 12                | 526              | 403              |
| 121+50.00      | 0                 | 11181            | 0                | 145+50.00      | 8670              | 0                | 0                | 171+50.00      | 5367              | 4                | 0                | 195+50.00      | 398               | 89               | 545              |
| 122+00.00      | 0                 | 10101            | 0                | 146+00.00      | 9818              | 0                | 0                | 172+00.00      | 3766              | 154              | 0                | 196+00.00      | 1024              | 13               | 604              |
| 122+50.00      | 0                 | 9815             | 0                | 146+50.00      | 10638             | 0                | 0                | 172+50.00      | 2799              | 522              | 0                | 196+50.00      | 1292              | 20               | 602              |
| 123+00.00      | 0                 | 9207             | 0                | 147+00.00      | 10375             | 0                | 0                | 173+00.00      | 1982              | 978              | 0                | 197+00.00      | 1323              | 8                | 608              |
| 123+50.00      | 0                 | 6882             | 0                | 147+50.00      | 9291              | 0                | 0                | 173+50.00      | 928               | 907              | 0                | 197+50.00      | 1549              | 0                | 590              |
| 124+00.00      | 0                 | 4148             | 0                | 148+00.00      | 7807              | 0                | 0                | 174+00.00      | 151               | 1964             | 0                | 198+00.00      | 2212              | 0                | 523              |
| 124+50.00      | 0                 | 1841             | 0                | 148+50.00      | 6296              | 0                | 0                | 174+50.00      | 0                 | 3932             | 0                | 198+50.00      | 2814              | 8                | 369              |
| 125+00.00      | 545               | 379              | 0                | 149+00.00      | 4683              | 0                | 0                | 175+00.00      | 0                 | 4188             | 0                | 199+00.00      | 2811              | 209              | 266              |
| 125+50.00      | 2013              | 0                | 0                | 149+50.00      | 2819              | 0                | 0                | 175+50.00      | 21                | 3484             | 0                | 199+50.00      | 2483              | 461              | 196              |
| 126+00.00      | 3468              | 0                | 0                | 150+00.00      | 1016              | 77               | 0                | 176+00.00      | 163               | 2724             | 0                | 200+00.00      | 2074              | 554              | 107              |
|                |                   |                  |                  | 150+50.00      | 88                | 767              | 0                | 176+50.00      | 413               | 1991             | 0                | 200+50.00      | 1448              | 774              | 0                |
| <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 151+00.00      | 0                 | 2062             | 0                | 177+00.00      | 580               | 1521             | 0                | 201+00.00      | 642               | 1873             | 0                |
| <b>L</b>       | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 151+50.00      | 0                 | 3853             | 0                | 177+50.00      | 518               | 1447             | 191              | 201+50.00      | 125               | 4240             | 0                |
|                |                   |                  |                  | 152+00.00      | 0                 | 6576             | 0                | 178+00.00      | 365               | 1568             | 213              | 202+00.00      | 35                | 6473             | 0                |
| 126+00.00      | 0                 | 0                | 0                | 152+50.00      | 0                 | 9068             | 0                | 178+50.00      | 432               | 1566             | 224              | 202+50.00      | 47                | 6728             | 0                |
| 126+50.00      | 4389              | 0                | 0                | 153+00.00      | 0                 | 8020             | 0                | 179+00.00      | 782               | 1348             | 246              | 203+00.00      | 41                | 5688             | 0                |
| 127+00.00      | 6089              | 0                | 0                | 153+50.00      | 0                 | 6092             | 0                | 179+50.00      | 1114              | 1068             | 254              | 203+50.00      | 26                | 5021             | 0                |
| 127+50.00      | 8755              | 0                | 0                | 154+24.99      | 0                 | 4568             | 0                | 180+00.00      | 1395              | 757              | 203              | 204+00.00      | 13                | 4967             | 0                |
| 128+00.00      | 10227             | 0                | 0                |                |                   |                  |                  | 180+50.00      | 1846              | 332              | 101              | 204+50.00      | 10                | 4702             | 0                |
| 128+50.00      | 9892              | 0                | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 181+00.00      | 2145              | 50               | 85               | 205+00.00      | 52                | 4098             | 0                |
| 129+00.00      | 8664              | 0                | 0                | <b>L</b>       | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 181+50.00      | 1518              | 215              | 168              | 205+50.00      | 193               | 3518             | 0                |
| 129+50.00      | 6952              | 0                | 0                |                |                   |                  |                  | 182+00.00      | 1106              | 510              | 174              | 206+00.00      | 280               | 2740             | 0                |
| 130+00.00      | 4681              | 0                | 0                | 155+79.35      | 0                 | 0                | 0                | 182+50.00      | 1776              | 332              | 141              | 206+50.00      | 336               | 1868             | 0                |
| 130+50.00      | 2543              | 1                | 0                | 156+55.00      | 0                 | 1861             | 0                | 183+00.00      | 2551              | 38               | 501              | 207+00.00      | 481               | 1161             | 0                |
| 131+00.00      | 938               | 837              | 0                | 157+00.00      | 0                 | 2214             | 0                | 183+50.00      | 3246              | 1                | 759              | 207+50.00      | 708               | 641              | 0                |
| 131+50.00      | 67                | 2222             | 0                | 157+50.00      | 0                 | 2697             | 0                | 184+00.00      | 3884              | 0                | 740              | 208+00.00      | 575               | 296              | 0                |
| 132+00.00      | 8                 | 1681             | 0                | 158+00.00      | 0                 | 3715             | 0                | 184+50.00      | 4266              | 0                | 780              | 208+38.61      | 226               | 155              | 0                |
| 132+50.00      | 241               | 296              | 0                | 158+50.00      | 0                 | 4791             | 0                | 185+00.00      | 4396              | 0                | 751              |                |                   |                  |                  |
| 133+00.00      | 542               | 1                | 0                | 159+00.00      | 0                 | 4790             | 0                | 185+50.00      | 4375              | 0                | 722              | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  |
| 133+50.00      | 432               | 42               | 0                | 159+50.00      | 0                 | 3455             | 0                | 186+00.00      | 4042              | 0                | 701              | <b>Rpd</b>     | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |
| 134+00.00      | 123               | 491              | 0                | 160+00.00      | 119               | 1635             | 0                | 186+50.00      | 3500              | 0                | 685              |                |                   |                  |                  |
| 134+50.00      | 0                 | 1278             | 0                | 160+50.00      | 817               | 493              | 0                |                |                   |                  |                  | 10+25.00       | 0                 | 0                | 0                |
| 135+00.00      | 2                 | 1820             | 0                | 161+00.00      | 2406              | 66               | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 10+50.00       | 0                 | 2                | 0                |
| 135+50.00      | 53                | 1876             | 0                | 161+50.00      | 4288              | 0                | 0                | <b>L</b>       | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 11+00.00       | 0                 | 5                | 0                |
| 136+00.00      | 213               | 1718             | 0                | 162+00.00      | 5982              | 0                | 0                |                |                   |                  |                  | 11+50.00       | 0                 | 16               | 0                |
| 136+50.00      | 314               | 1809             | 0                | 162+50.00      | 7521              | 0                | 0                | 186+50.00      | 0                 | 0                | 0                | 12+00.00       | 67                | 30               | 0                |
| 137+00.00      | 284               | 2274             | 0                | 163+00.00      | 8784              | 0                | 0                | 187+00.00      | 3063              | 0                | 678              | 12+34.38       | 92                | 21               | 0                |
| 137+50.00      | 132               | 3407             | 0                | 163+50.00      | 9756              | 0                | 0                | 187+50.00      | 2435              | 0                | 679              |                |                   |                  |                  |
| 138+00.00      | 0                 | 4726             | 0                | 164+00.00      | 10337             | 0                | 0                | 188+00.00      | 1370              | 21               | 666              |                |                   |                  |                  |
| 138+21.44      | 0                 | 3171             | 0                | 164+50.00      | 10349             | 0                | 0                | 188+50.00      | 379               | 332              | 466              |                |                   |                  |                  |

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# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

|                            |                  |
|----------------------------|------------------|
| <b>PROJ. REFERENCE NO.</b> | <b>SHEET NO.</b> |
| U-2412A                    | X-1D             |

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the

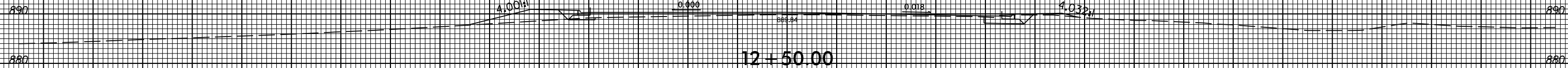
NOTE: EMBANKMENT COLUMN DOES NOT INCLUDE BACKFILL FOR UNDERCUT

## CROSS-SECTION SUMMARY

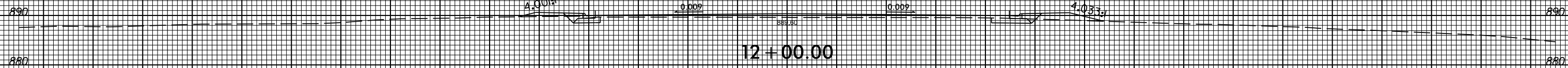
| Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         | Station        | Uncl. Exc.        | Embt             | Undercut         |
|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|----------------|-------------------|------------------|------------------|
| Y              | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | Y3             | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | Y5             | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        | Y7             | (cu. yd.)         | (cu. yd.)        | (cu. yd.)        |
| 10+51.62       | 0                 | 0                | 0                | 17+50.00       | 246               | 0                | 149              | 16+50.00       | 16                | 119              | 0                | 23+00.00       | 496               | 0                | 0                |
| 11+00.00       | 0                 | 850              | 0                | 18+00.00       | 205               | 0                | 130              | 17+00.00       | 5                 | 180              | 0                | 23+50.00       | 546               | 0                | 0                |
| 11+50.00       | 0                 | 1910             | 0                | 18+50.00       | 122               | 1                | 127              | 17+50.00       | 0                 | 235              | 0                | 24+00.00       | 569               | 0                | 0                |
| 12+00.00       | 0                 | 4739             | 0                | 19+00.00       | 46                | 2                | 122              | 18+00.00       | 0                 | 284              | 0                | 24+50.00       | 467               | 0                | 0                |
| 12+50.00       | 0                 | 5719             | 0                |                |                   |                  |                  | 18+17.62       | 1                 | 110              | 0                | 25+00.00       | 378               | 0                | 0                |
| 13+00.00       | 0                 | 3617             | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 19+29.13       | 0                 | 0                | 0                | 25+50.00       | 371               | 0                | 0                |
| 13+50.00       | 0                 | 1470             | 0                |                |                   |                  |                  | 20+00.00       | 54                | 69               | 0                | 26+00.00       | 342               | 0                | 0                |
| 14+00.00       | 81                | 364              | 0                | <b>Y4</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 20+50.00       | 154               | 163              | 0                | 26+50.00       | 265               | 0                | 0                |
| 14+50.00       | 295               | 61               | 0                | 10+10.00       | 0                 | 0                | 0                | 21+00.00       | 192               | 166              | 0                | 27+00.00       | 158               | 14               | 0                |
| 15+00.00       | 598               | 0                | 0                | 10+50.00       | 14                | 13               | 0                | 21+50.00       | 209               | 145              | 0                | 27+50.00       | 98                | 53               | 0                |
| 15+50.00       | 702               | 0                | 0                | 11+00.00       | 55                | 28               | 0                | 22+00.00       | 195               | 112              | 0                | 28+00.00       | 123               | 80               | 0                |
| 16+00.00       | 498               | 4                | 0                | 11+50.00       | 96                | 23               | 0                | 22+50.00       | 94                | 152              | 0                | 28+50.00       | 145               | 57               | 0                |
| 16+50.00       | 274               | 39               | 0                | 12+00.00       | 86                | 35               | 0                | 23+00.00       | 5                 | 302              | 0                | 29+00.00       | 145               | 22               | 0                |
| 17+00.00       | 190               | 62               | 0                | 12+50.00       | 55                | 80               | 0                | 23+50.00       | 7                 | 518              | 0                | 29+50.00       | 129               | 6                | 0                |
| 17+50.00       | 154               | 51               | 0                | 13+00.00       | 48                | 119              | 0                | 24+00.00       | 14                | 604              | 0                | 30+00.00       | 98                | 5                | 0                |
| 18+00.00       | 66                | 38               | 0                | 13+50.00       | 22                | 130              | 0                | 24+50.00       | 16                | 401              | 0                | 30+50.00       | 53                | 21               | 0                |
| 18+50.00       | 23                | 22               | 0                | 14+00.00       | 0                 | 113              | 0                | 25+00.00       | 21                | 137              | 0                | 31+00.00       | 21                | 35               | 0                |
| 19+00.00       | 62                | 10               | 0                | 14+50.00       | 0                 | 80               | 0                | 25+50.00       | 55                | 25               | 0                | 31+50.00       | 6                 | 37               | 0                |
| 19+50.00       | 95                | 4                | 0                | 15+00.00       | 2                 | 62               | 0                | 26+00.00       | 79                | 0                | 0                | 31+75.00       | 2                 | 10               | 0                |
| 20+00.00       | 77                | 7                | 0                | 15+50.00       | 3                 | 50               | 0                |                |                   |                  |                  |                |                   |                  |                  |
| 20+50.00       | 65                | 5                | 0                | 16+00.00       | 11                | 47               | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  |
| 21+00.00       | 75                | 0                | 0                | 16+50.00       | 41                | 61               | 0                |                |                   |                  |                  | <b>Y8</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |
| 21+50.00       | 43                | 0                | 0                | 16+94.95       | 57                | 65               | 0                | <b>Y5A</b>     | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |                |                   |                  |                  |
| 22+00.00       | 2                 | 0                | 0                | 18+05.07       | 0                 | 0                | 0                | 10+18.02       | 0                 | 0                | 0                | 12+25.00       | 0                 | 0                | 0                |
|                |                   |                  |                  | 18+50.00       | 0                 | 246              | 0                | 10+50.00       | 16                | 36               | 0                | 12+50.00       | 2                 | 23               | 0                |
| <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 19+00.00       | 0                 | 263              | 0                | 11+00.00       | 40                | 36               | 0                | 13+00.00       | 7                 | 79               | 0                |
|                |                   |                  |                  | 19+50.00       | 0                 | 233              | 0                | 11+50.00       | 28                | 9                | 0                | 13+50.00       | 6                 | 55               | 0                |
| <b>Y1</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 20+00.00       | 0                 | 211              | 0                | 11+50.00       | 28                | 9                | 0                | 13+95.67       | 5                 | 42               | 0                |
| 12+75.00       | 0                 | 0                | 0                | 20+50.00       | 1                 | 173              | 0                |                |                   |                  |                  |                |                   |                  |                  |
| 13+00.00       | 14                | 3                | 0                | 21+00.00       | 21                | 83               | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  |
| 13+50.00       | 64                | 8                | 0                | 21+50.00       | 45                | 23               | 0                |                |                   |                  |                  | <b>Y10</b>     | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |
| 14+00.00       | 50                | 15               | 0                | 22+00.00       | 39                | 12               | 0                | <b>Y5B</b>     | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |                |                   |                  |                  |
| 14+50.00       | 13                | 68               | 0                | 22+50.00       | 16                | 16               | 0                | 10+00.00       | 0                 | 0                | 0                | 14+65.00       | 0                 | 0                | 0                |
| 15+00.00       | 0                 | 252              | 0                | 23+00.00       | 4                 | 24               | 0                | 10+50.00       | 41                | 18               | 0                | 15+00.00       | 14                | 0                | 0                |
| 15+42.74       | 0                 | 337              | 0                | 23+50.00       | 6                 | 19               | 0                | 11+00.00       | 73                | 23               | 0                | 15+50.00       | 82                | 0                | 0                |
|                |                   |                  |                  | 24+00.00       | 10                | 11               | 0                | 11+50.00       | 89                | 31               | 0                | 16+00.00       | 89                | 9                | 0                |
| <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  |                |                   |                  |                  | 12+00.00       | 92                | 56               | 0                | 16+50.00       | 39                | 39               | 0                |
|                |                   |                  |                  | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 12+50.00       | 92                | 96               | 0                | 17+00.00       | 23                | 126              | 0                |
| <b>Y2</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |                |                   |                  |                  | 12+82.00       | 58                | 80               | 0                | 17+50.00       | 9                 | 268              | 0                |
| 10+57.32       | 0                 | 0                | 0                | <b>Y5</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> |                |                   |                  |                  | 18+00.00       | 0                 | 449              | 0                |
| 11+00.00       | 385               | 0                | 0                | 10+25.00       | 0                 | 0                | 0                | <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 18+50.00       | 0                 | 692              | 0                |
| 11+50.00       | 384               | 0                | 0                | 10+50.00       | 3                 | 4                | 0                |                |                   |                  |                  | 19+00.00       | 0                 | 952              | 0                |
| 12+00.00       | 248               | 0                | 0                | 11+00.00       | 19                | 19               | 0                | <b>Y7</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 19+50.00       | 0                 | 1147             | 0                |
| 12+50.00       | 146               | 1                | 0                | 11+50.00       | 62                | 17               | 0                | 17+00.00       | 0                 | 0                | 0                | 20+00.00       | 0                 | 1098             | 0                |
| 13+00.00       | 95                | 4                | 0                | 12+00.00       | 93                | 21               | 0                | 17+50.00       | 47                | 5                | 0                | 20+65.24       | 0                 | 1271             | 0                |
| 13+25.00       | 19                | 2                | 0                | 12+50.00       | 79                | 36               | 0                | 18+00.00       | 78                | 17               | 0                | 21+98.61       | 0                 | 0                | 0                |
|                |                   |                  |                  | 13+00.00       | 53                | 54               | 0                | 18+50.00       | 61                | 57               | 0                | 22+50.00       | 1322              | 0                | 0                |
| <b>Station</b> | <b>Uncl. Exc.</b> | <b>Embt</b>      | <b>Undercut</b>  | 13+50.00       | 24                | 61               | 0                | 19+00.00       | 27                | 144              | 0                | 23+00.00       | 1310              | 0                | 0                |
|                |                   |                  |                  | 14+00.00       | 23                | 59               | 0                | 19+50.00       | 4                 | 259              | 0                | 23+50.00       | 1341              | 0                | 0                |
| <b>Y3</b>      | <b>(cu. yd.)</b>  | <b>(cu. yd.)</b> | <b>(cu. yd.)</b> | 14+50.00       | 47                | 56               | 0                | 20+00.00       | 0                 | 392              | 0                | 24+00.00       | 1314              | 0                | 0                |
| 16+09.10       | 0                 | 0                | 0                | 15+00.00       | 73                | 44               | 0                | 20+58.78       | 0                 | 549              | 0                | 24+50.00       | 1069              | 0                | 0                |
| 16+50.00       | 260               | 0                | 155              | 15+50.00       | 70                | 30               | 0                | 21+71.88       | 0                 | 0                | 0                | 25+00.00       | 806               | 0                | 0                |
| 17+00.00       | 276               | 0                | 188              | 16+00.00       | 39                | 59               | 0                | 22+50.00       | 791               | 0                | 0                | 25+50.00       | 679               | 0                | 0                |



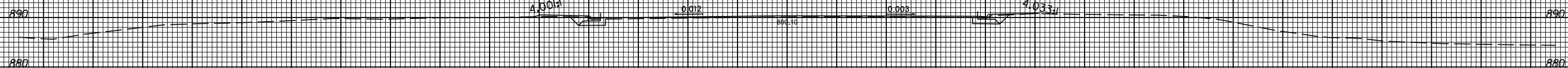
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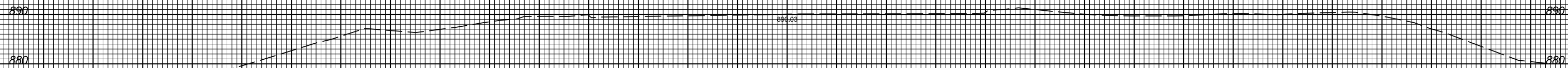
12 + 50.00



12 + 00.00

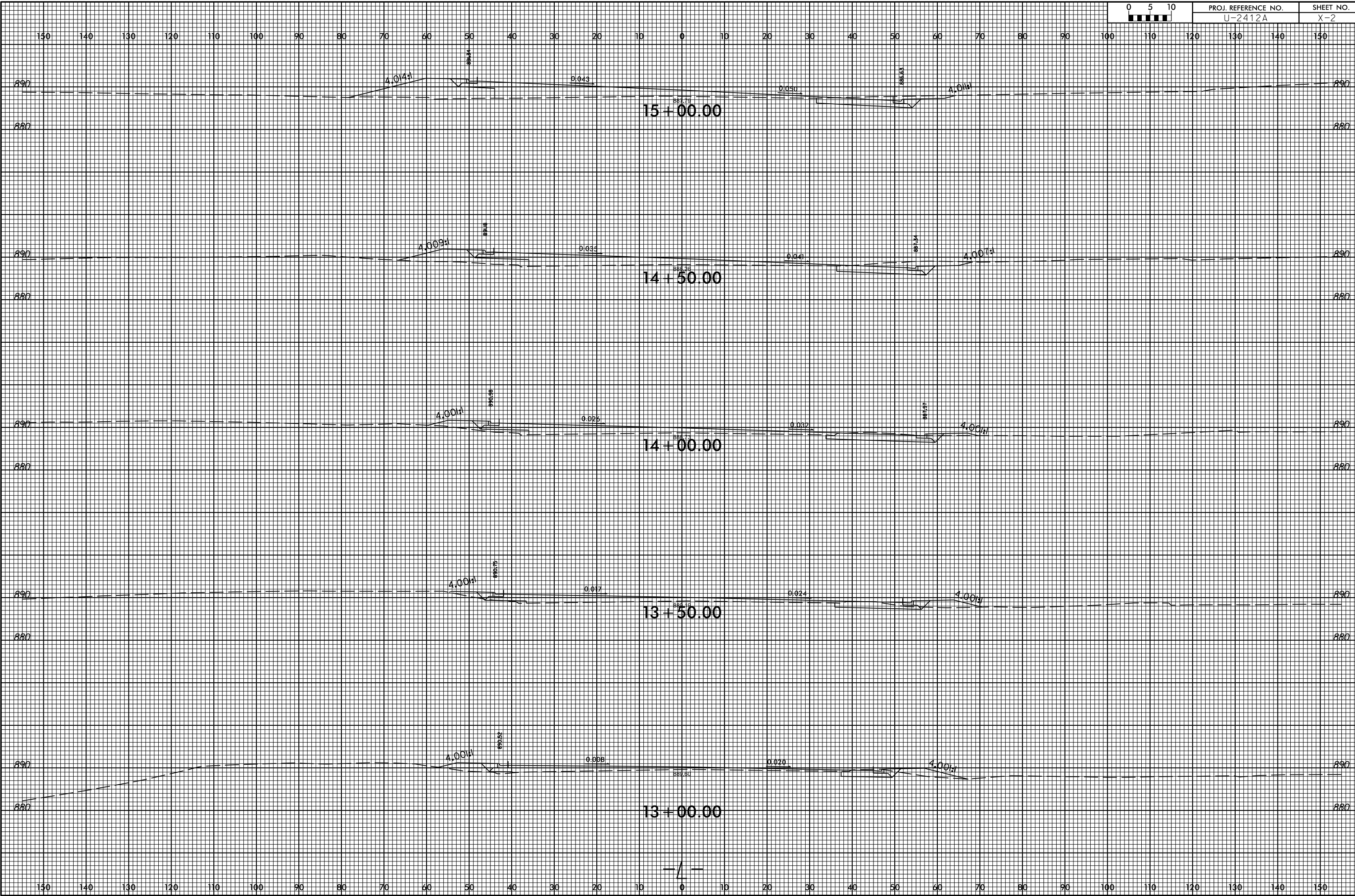


11 + 50.00



11 + 00.00

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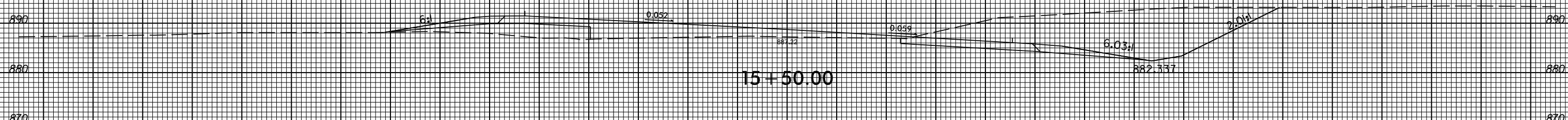
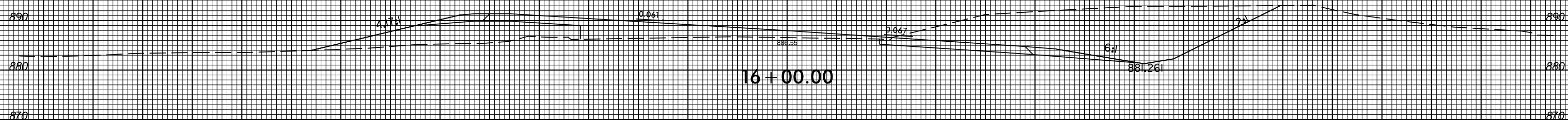
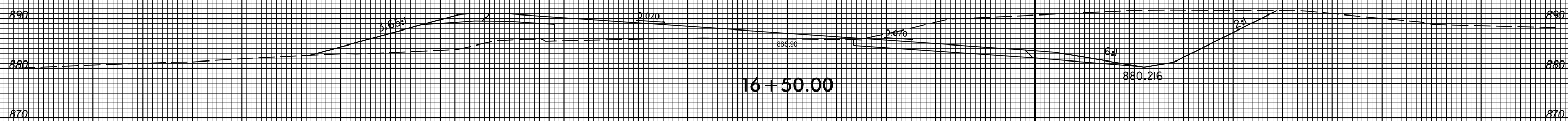
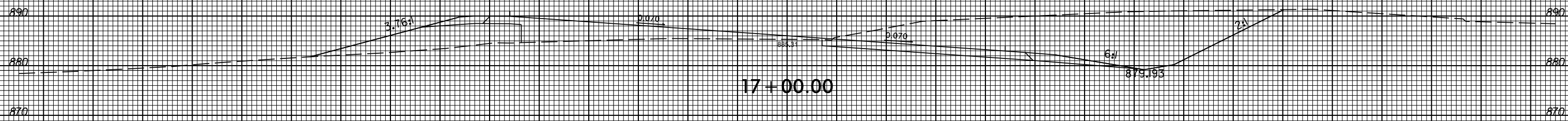
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-3

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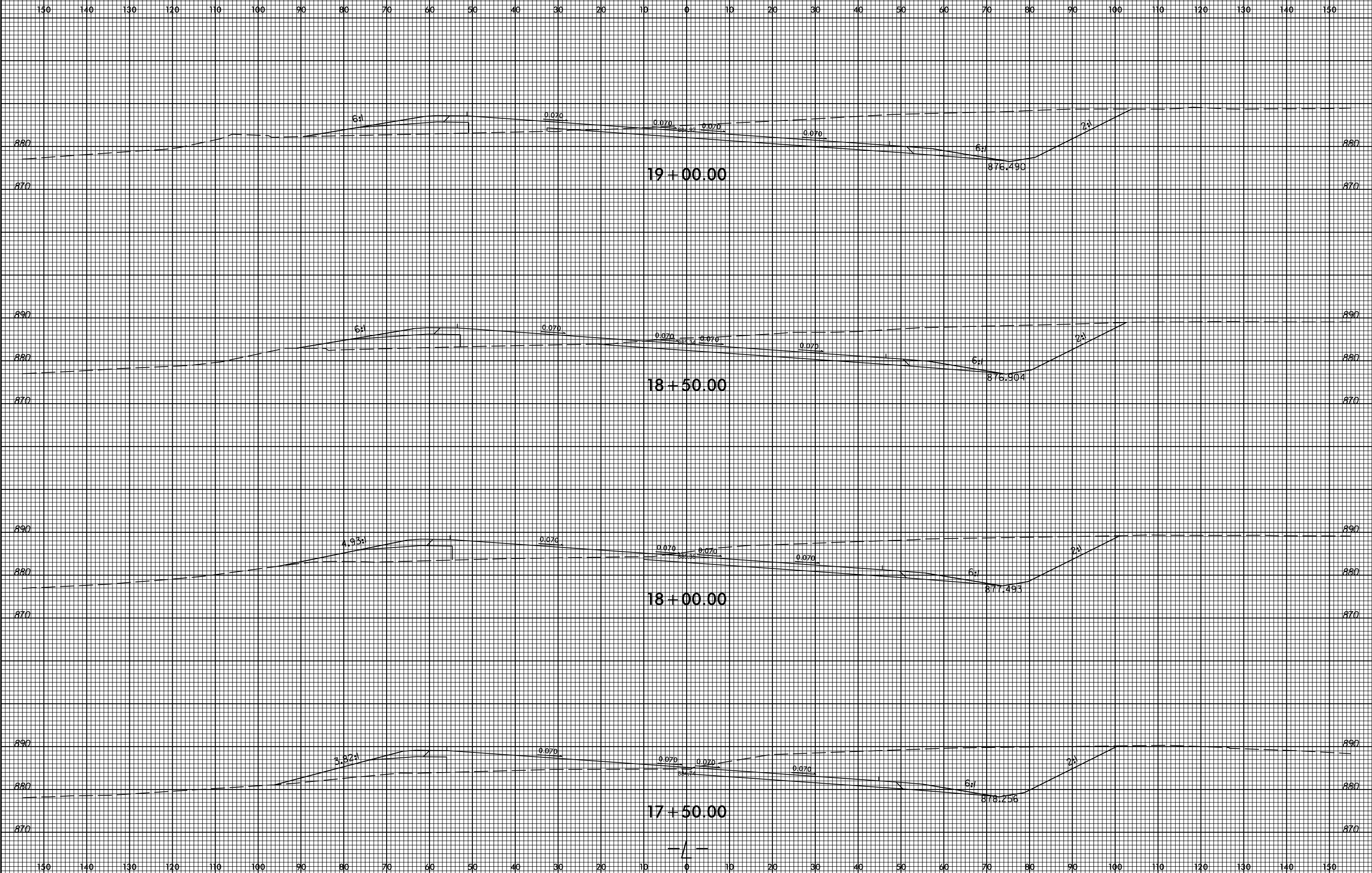
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8/23/99

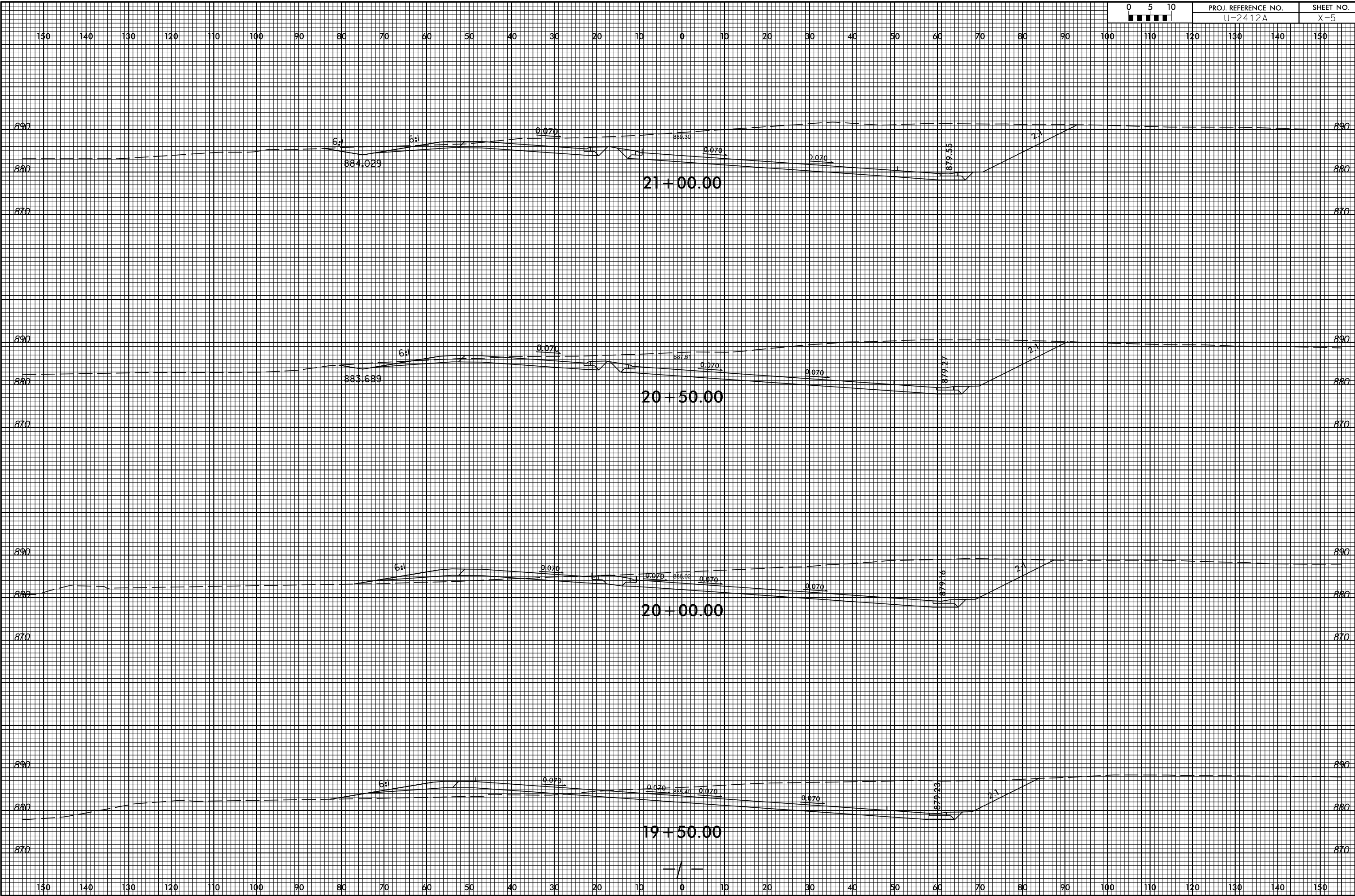


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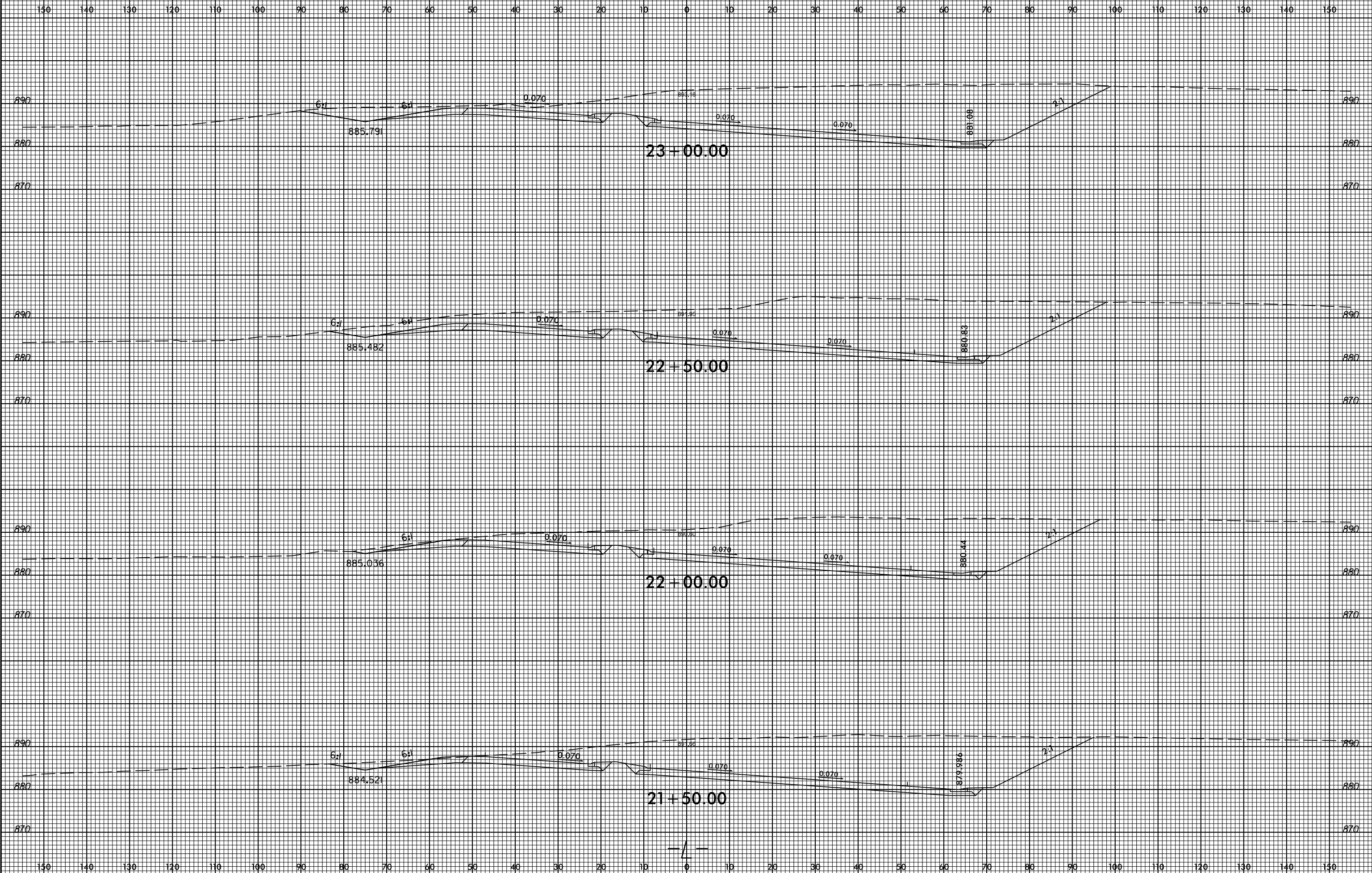


8/23/99



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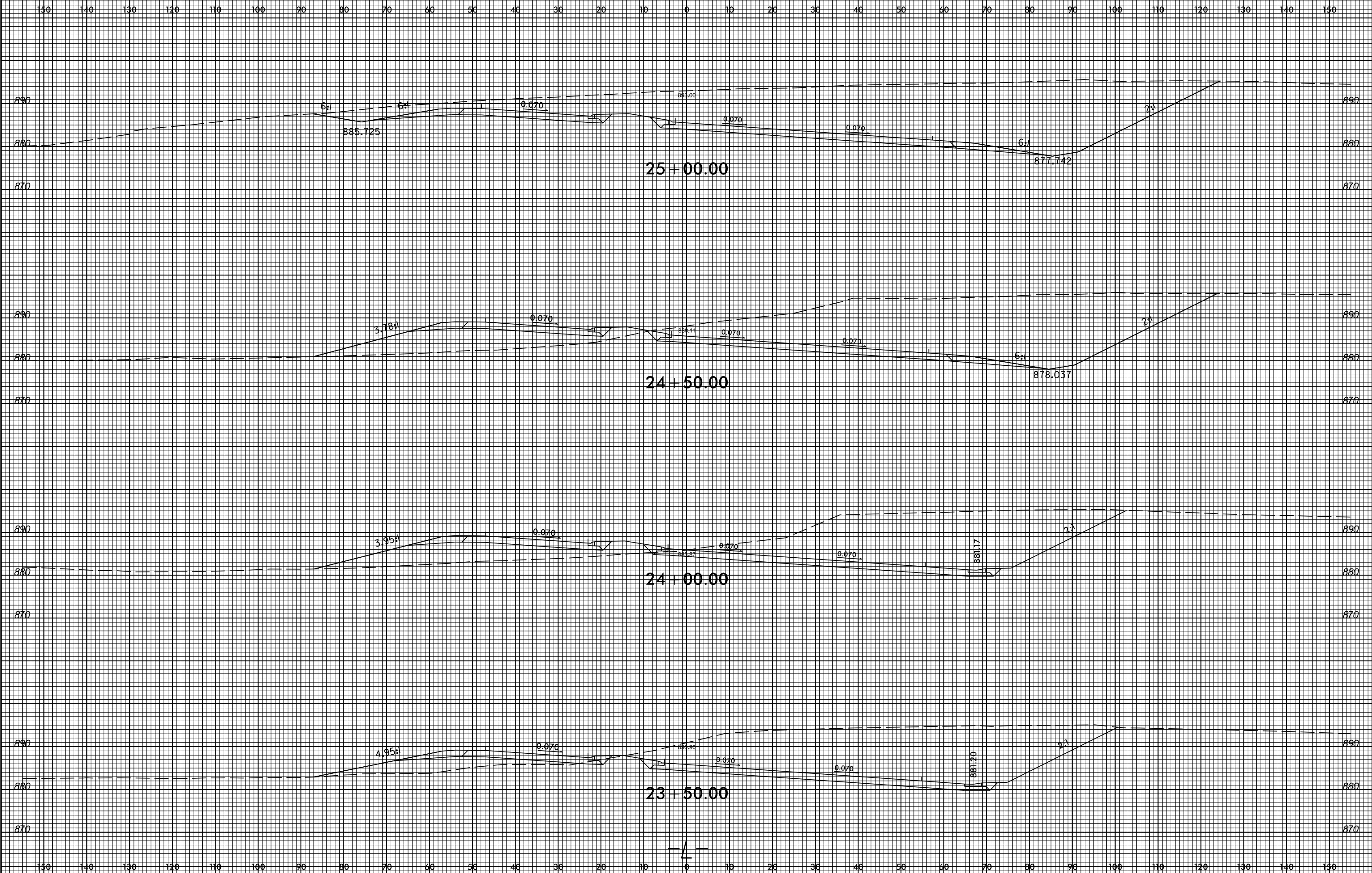
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8/23/99



PROJ. REFERENCE NO.  
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X-7



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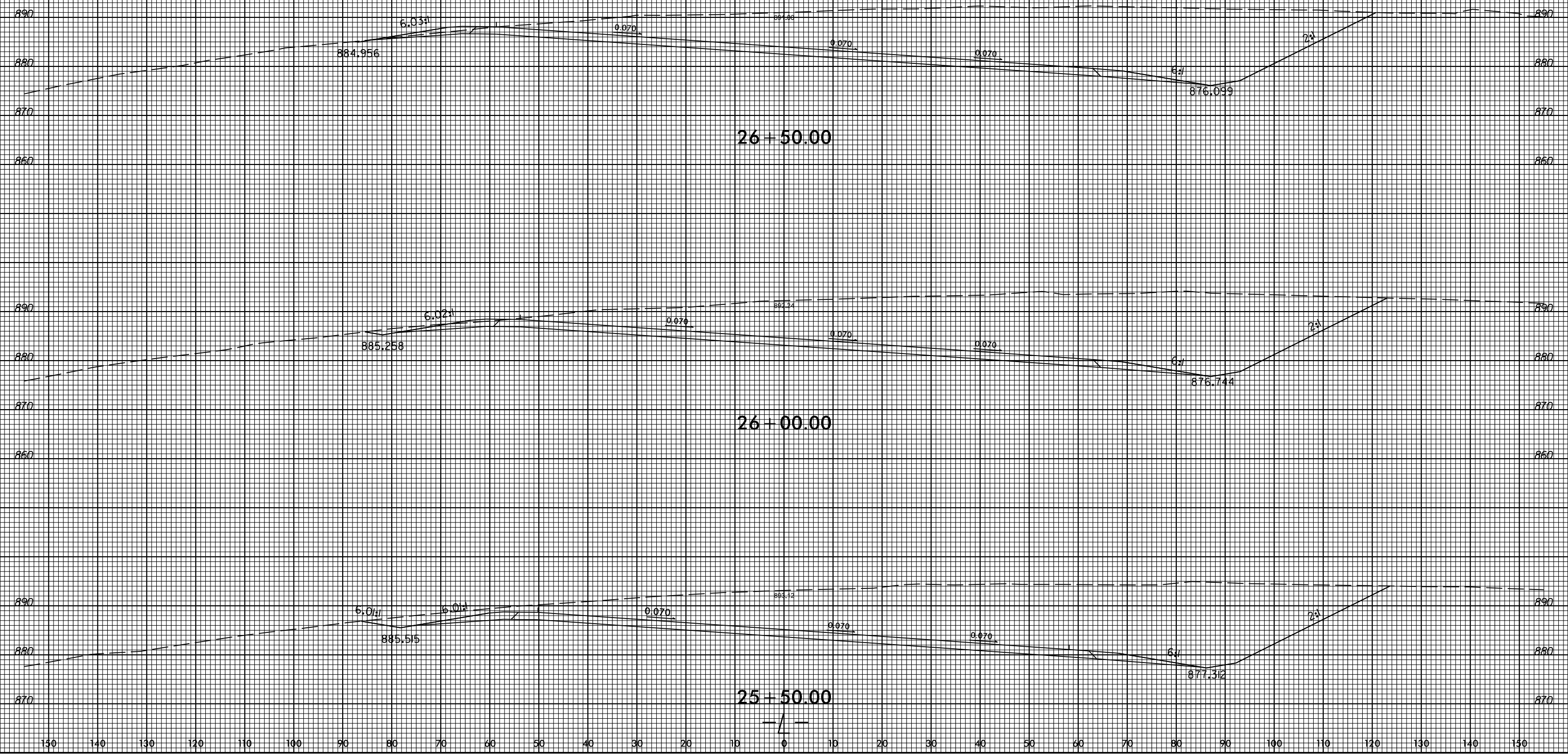
8/23/99



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SHEET NO.  
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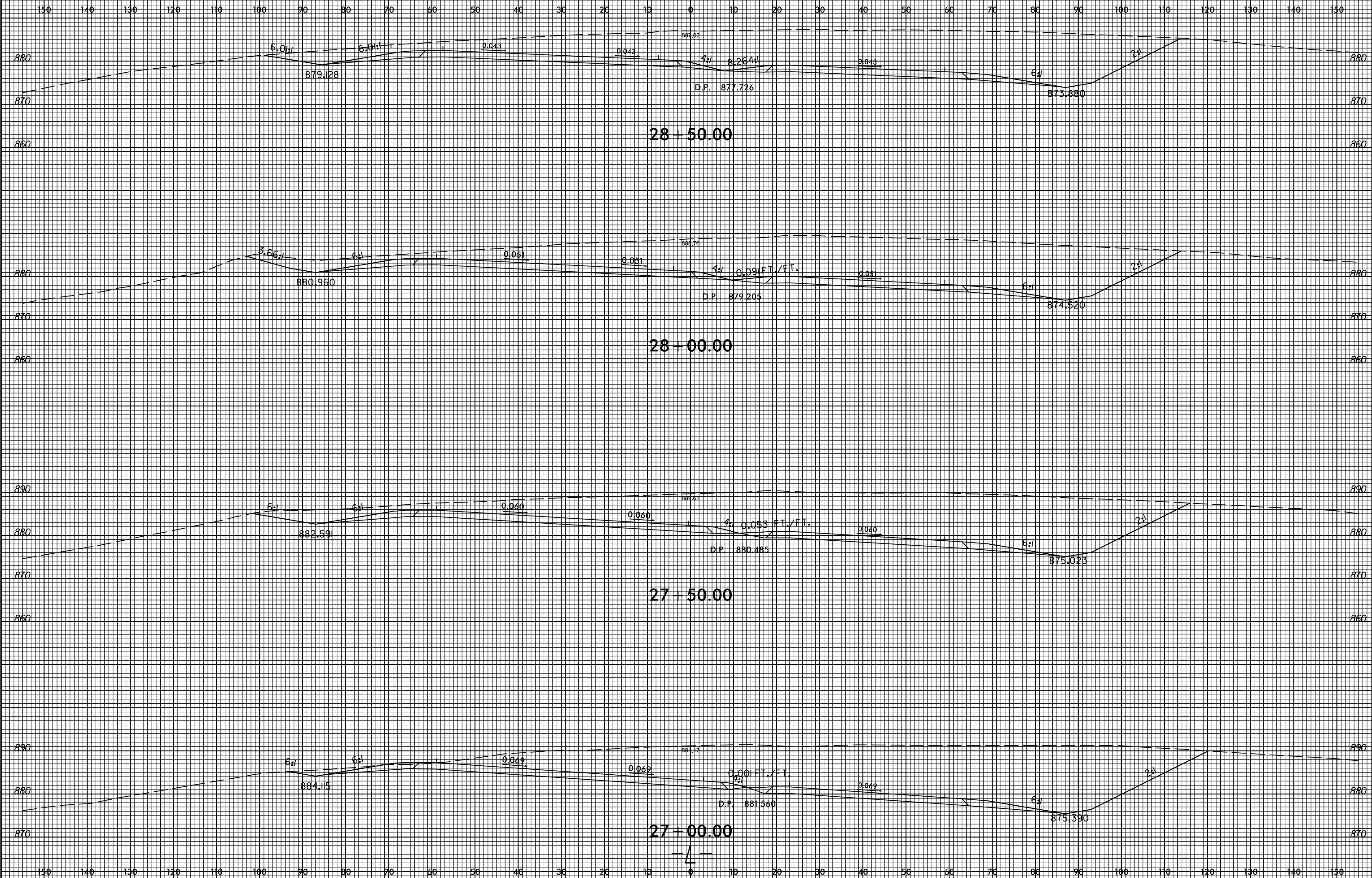
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8/23/99



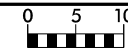
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SHEET NO.  
X-9



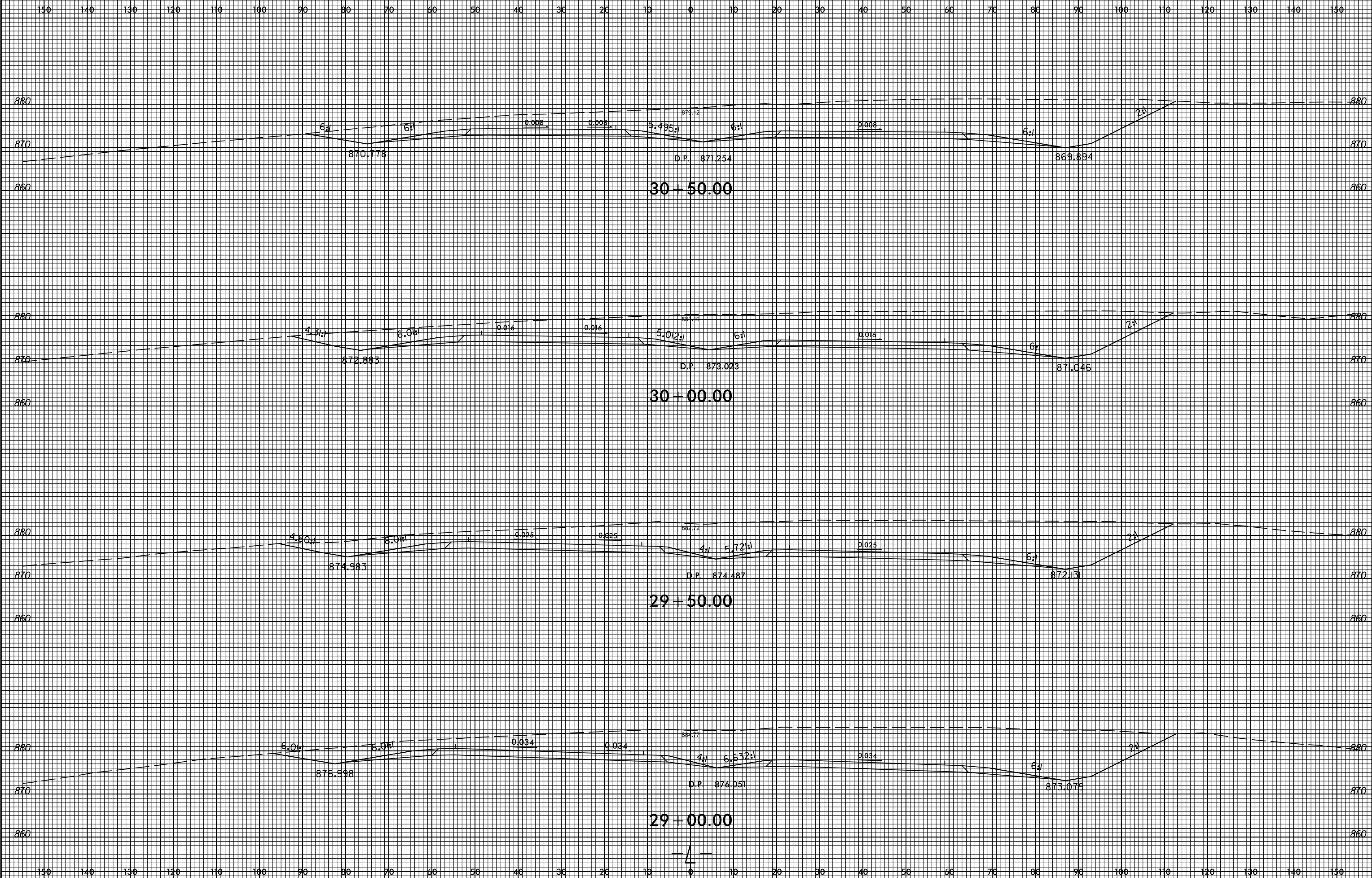
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8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-10



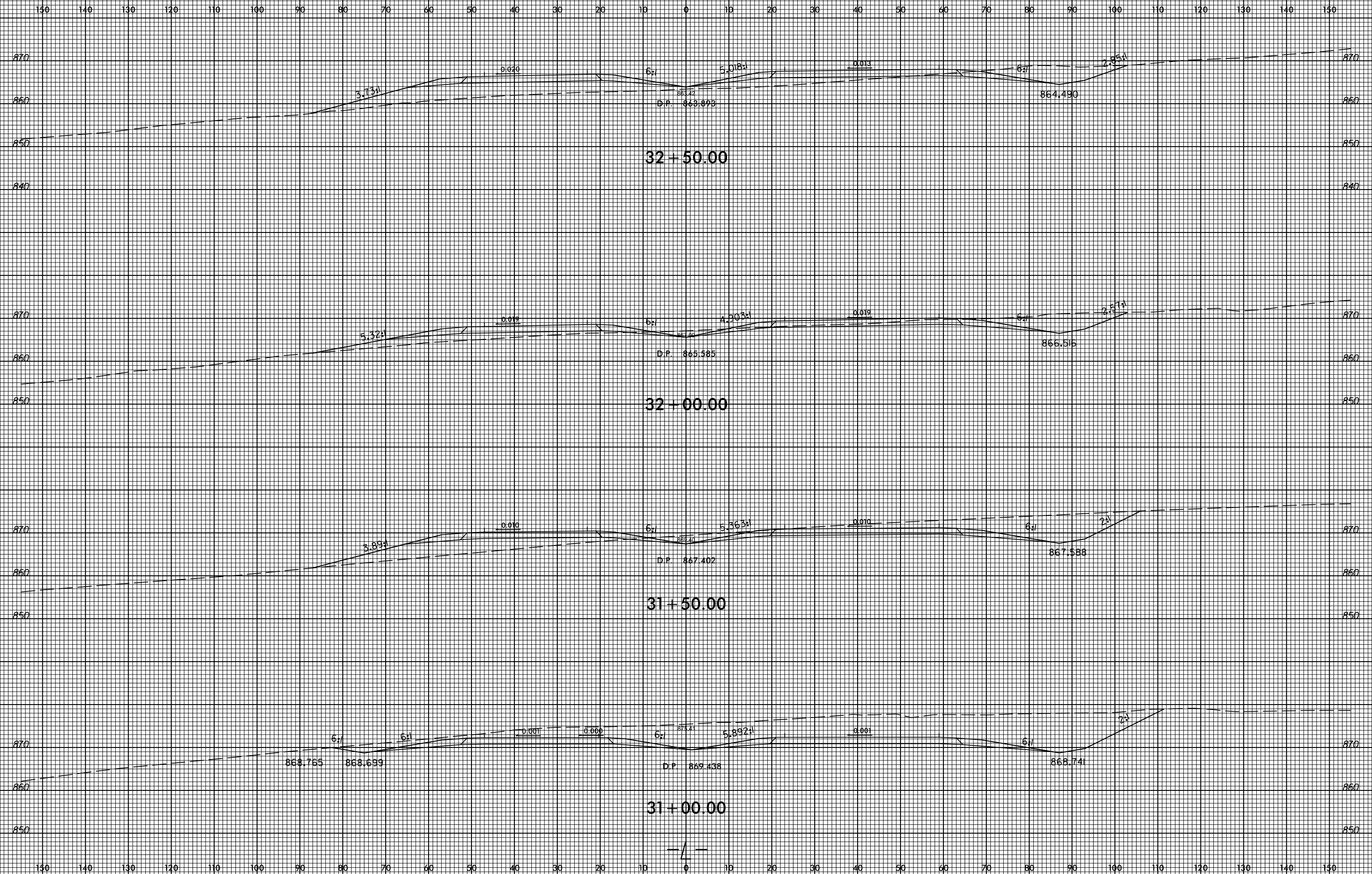
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| U-2412A             | X-11      |



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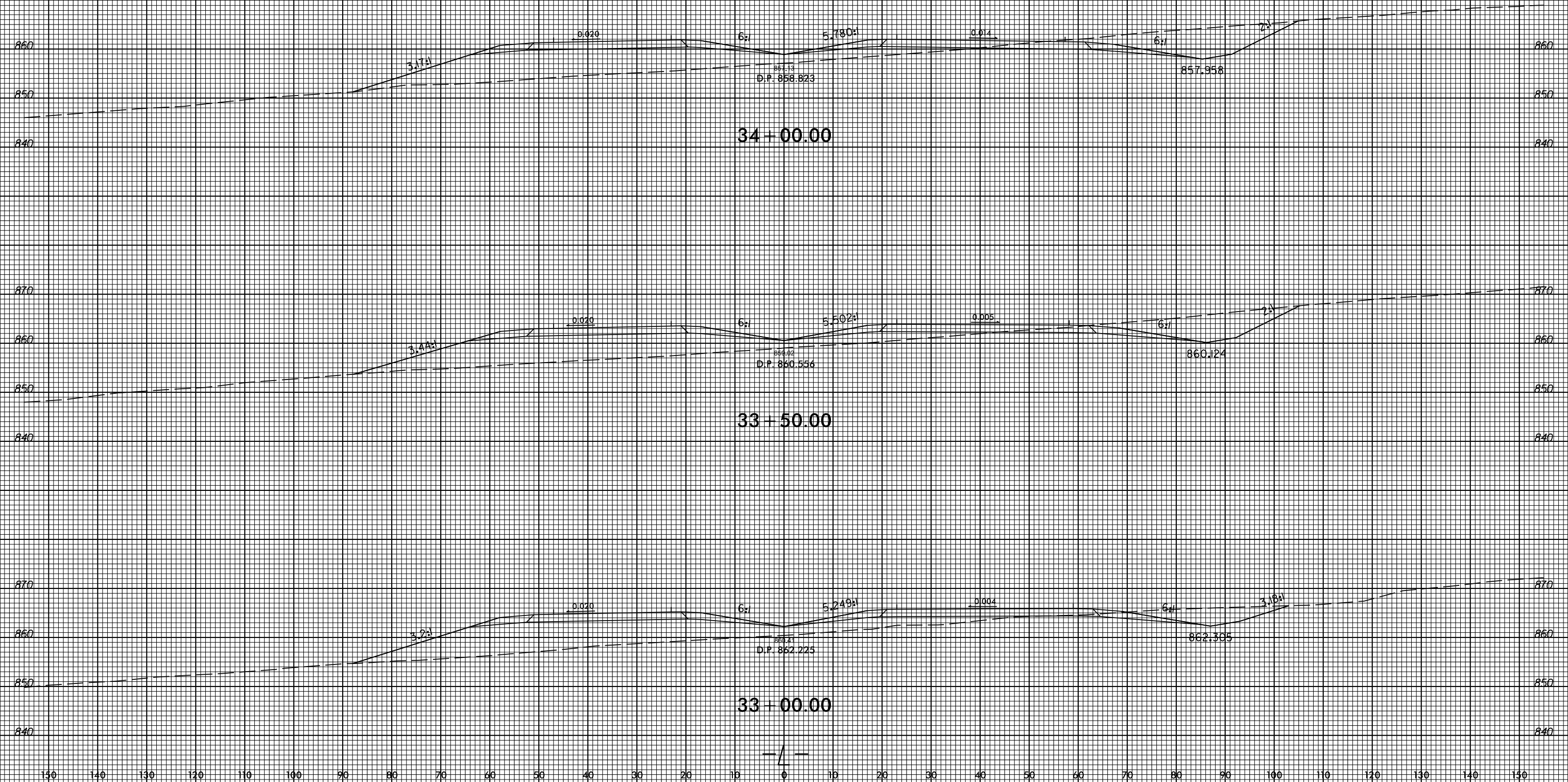
8/23/99



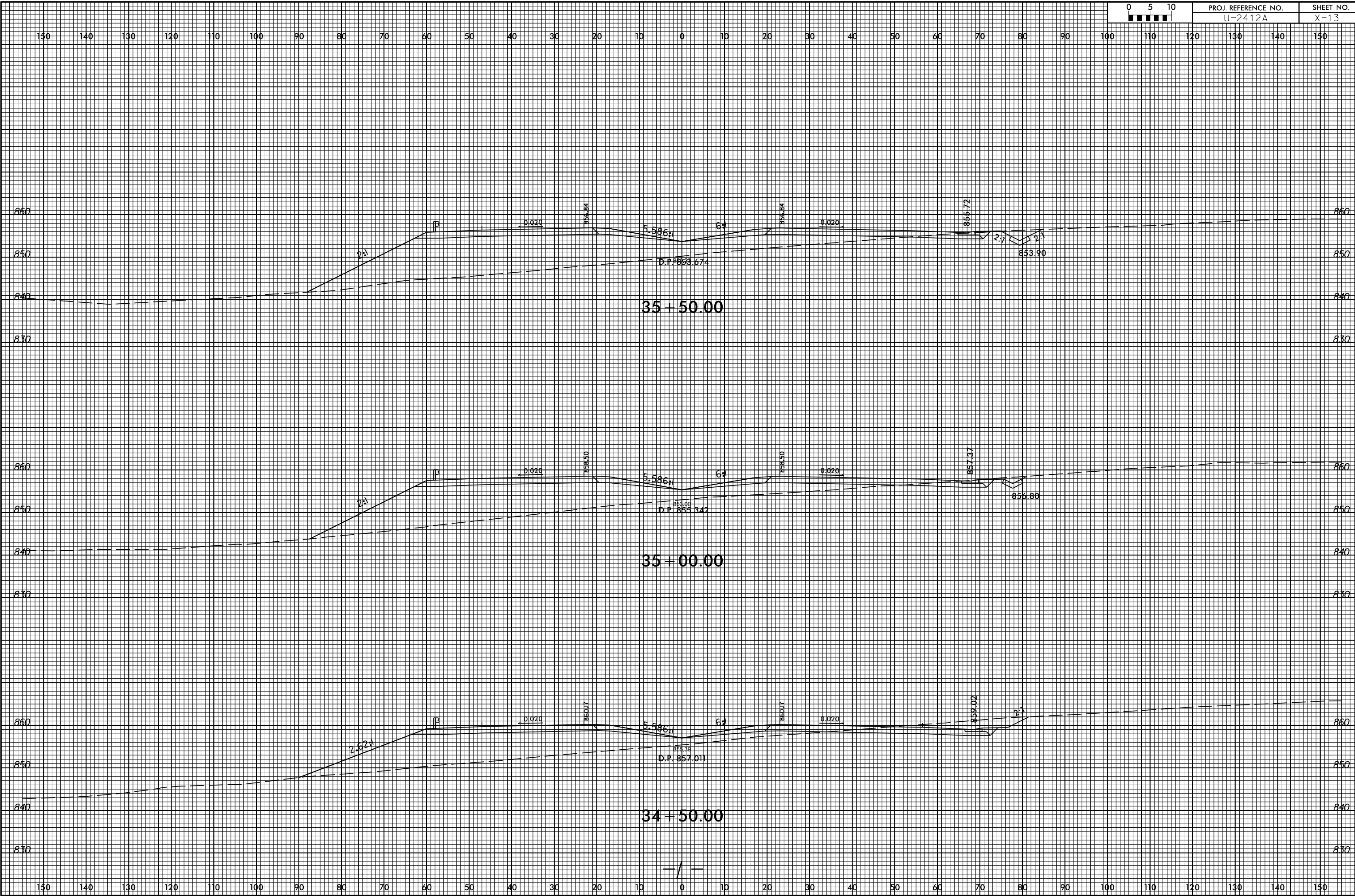
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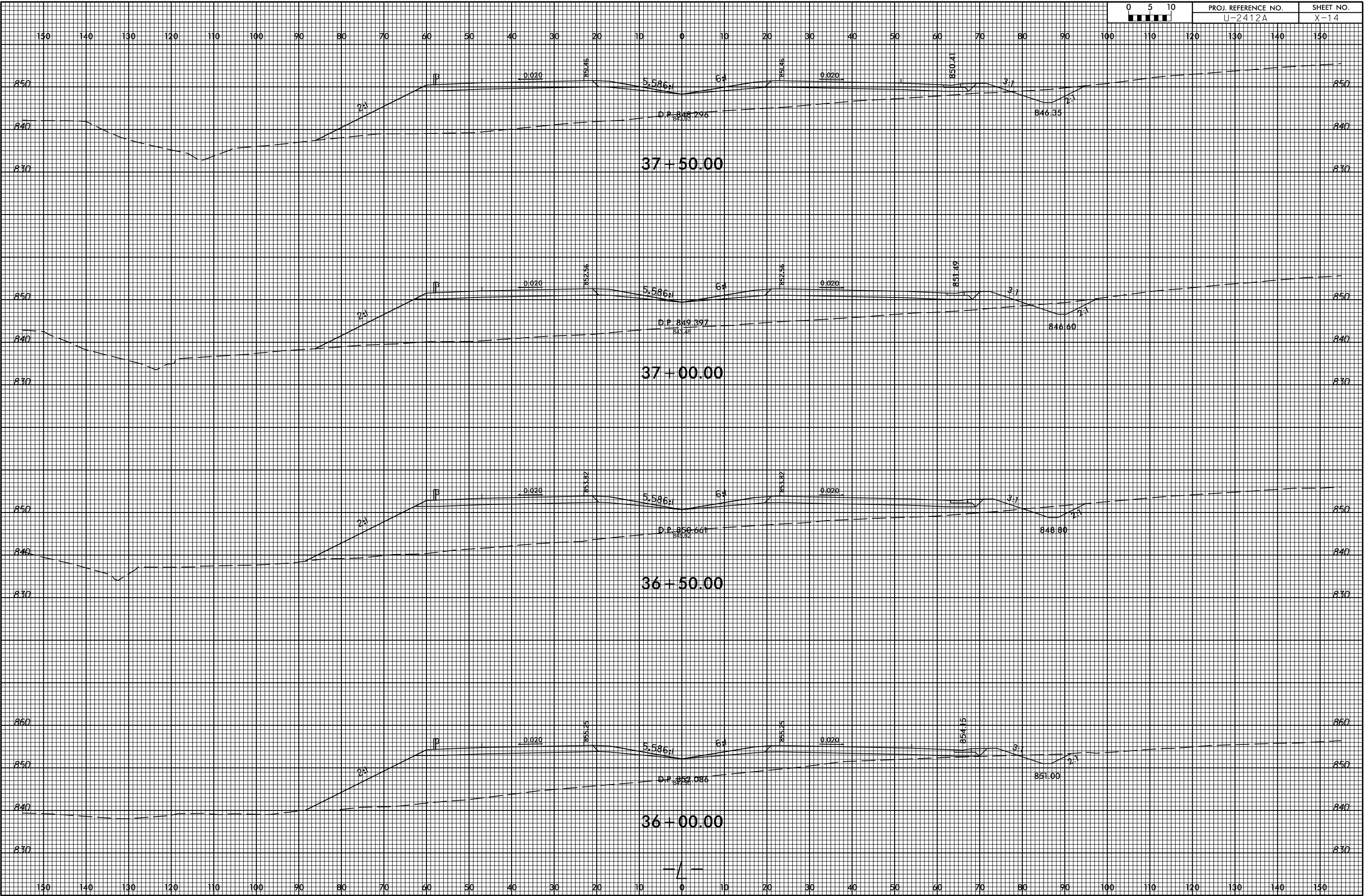


8/23/99

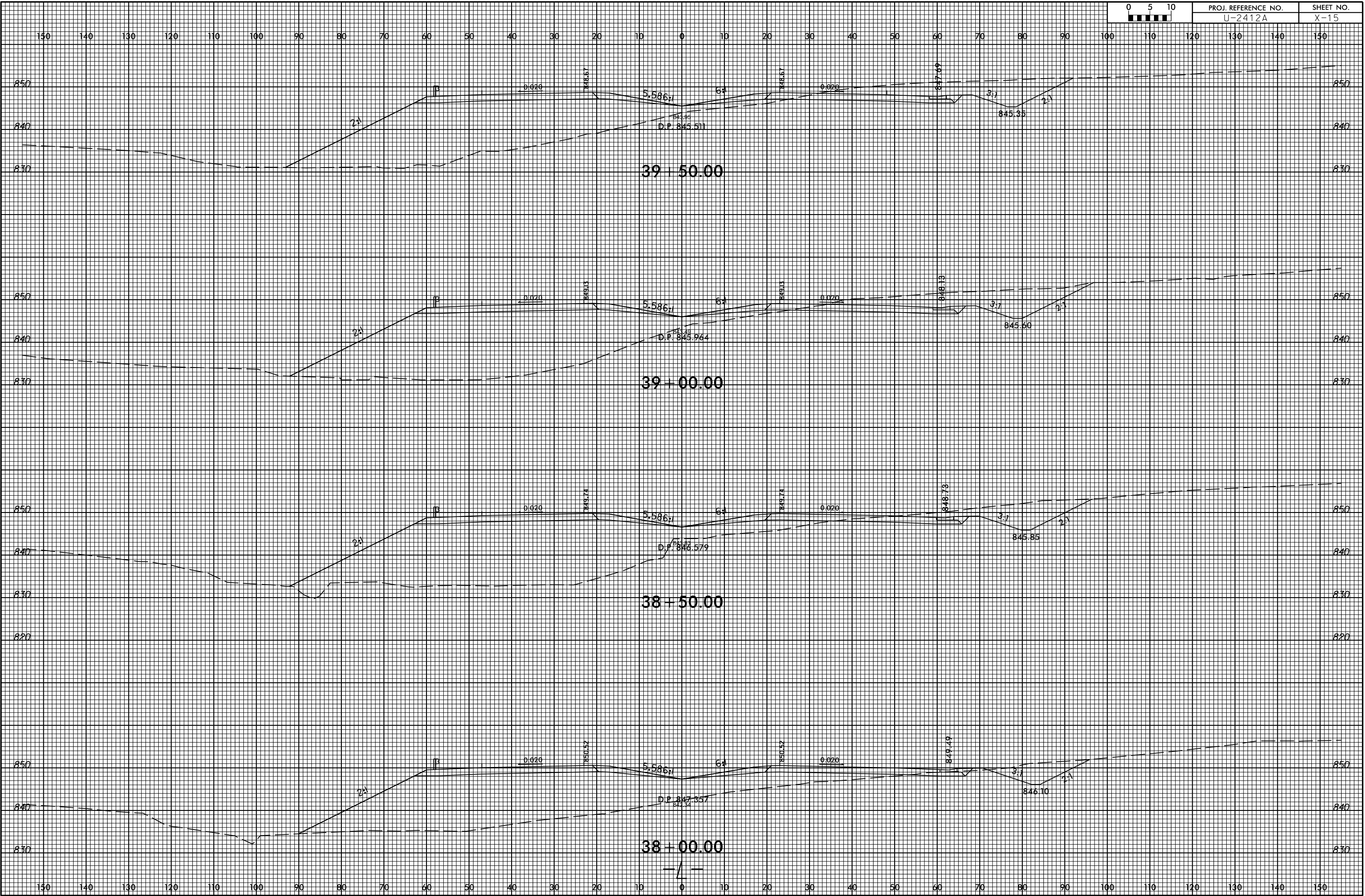


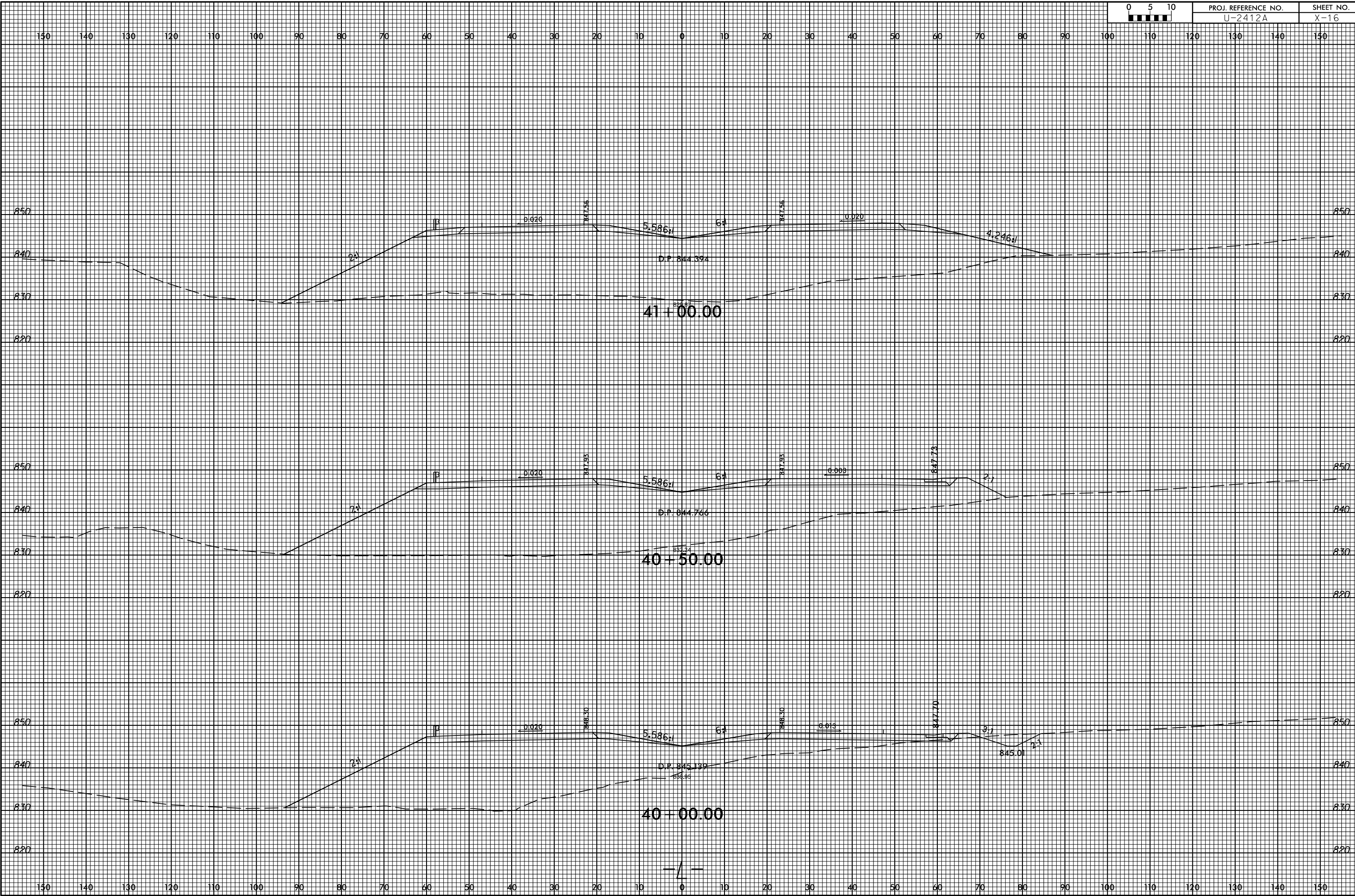
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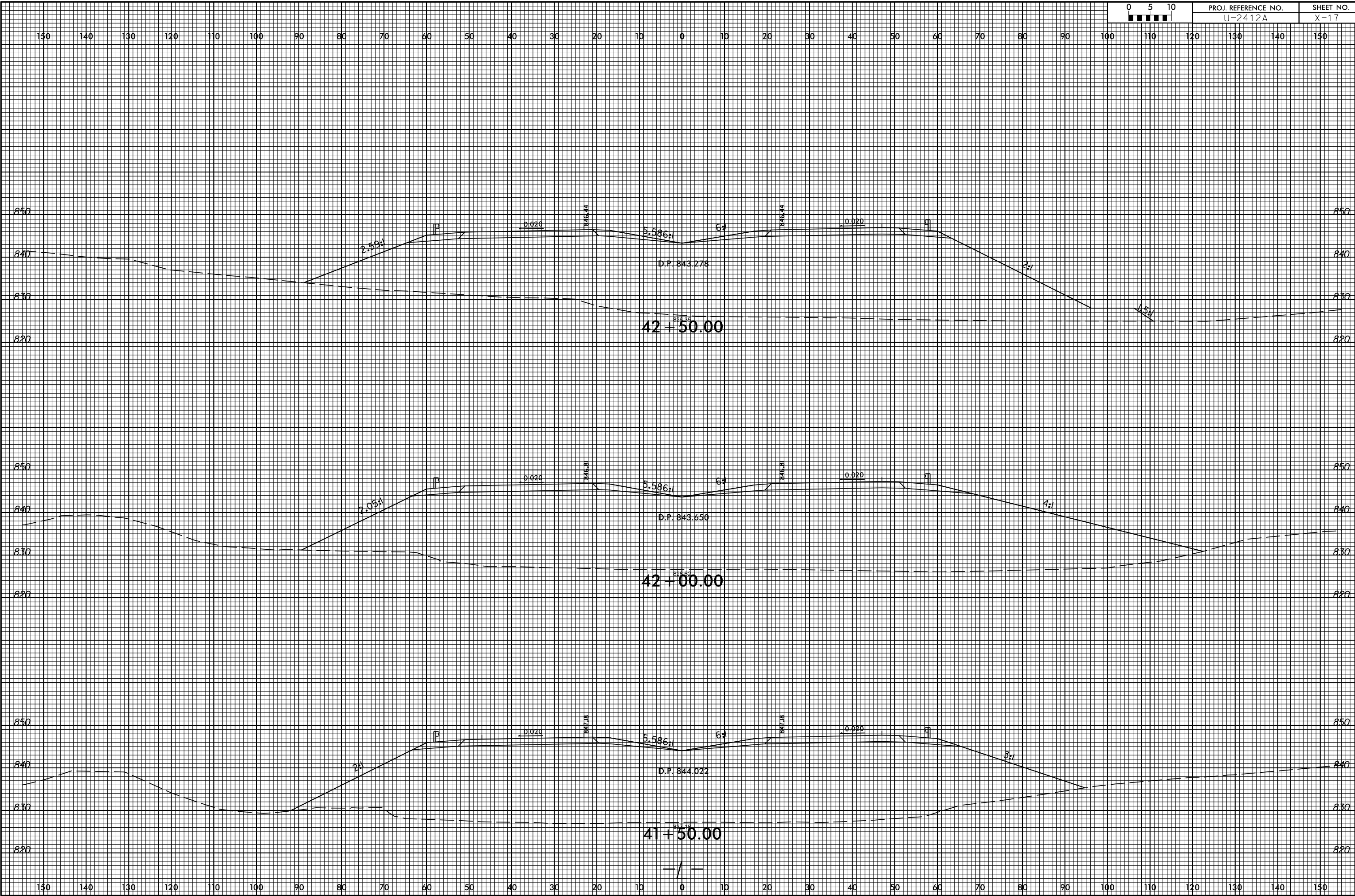
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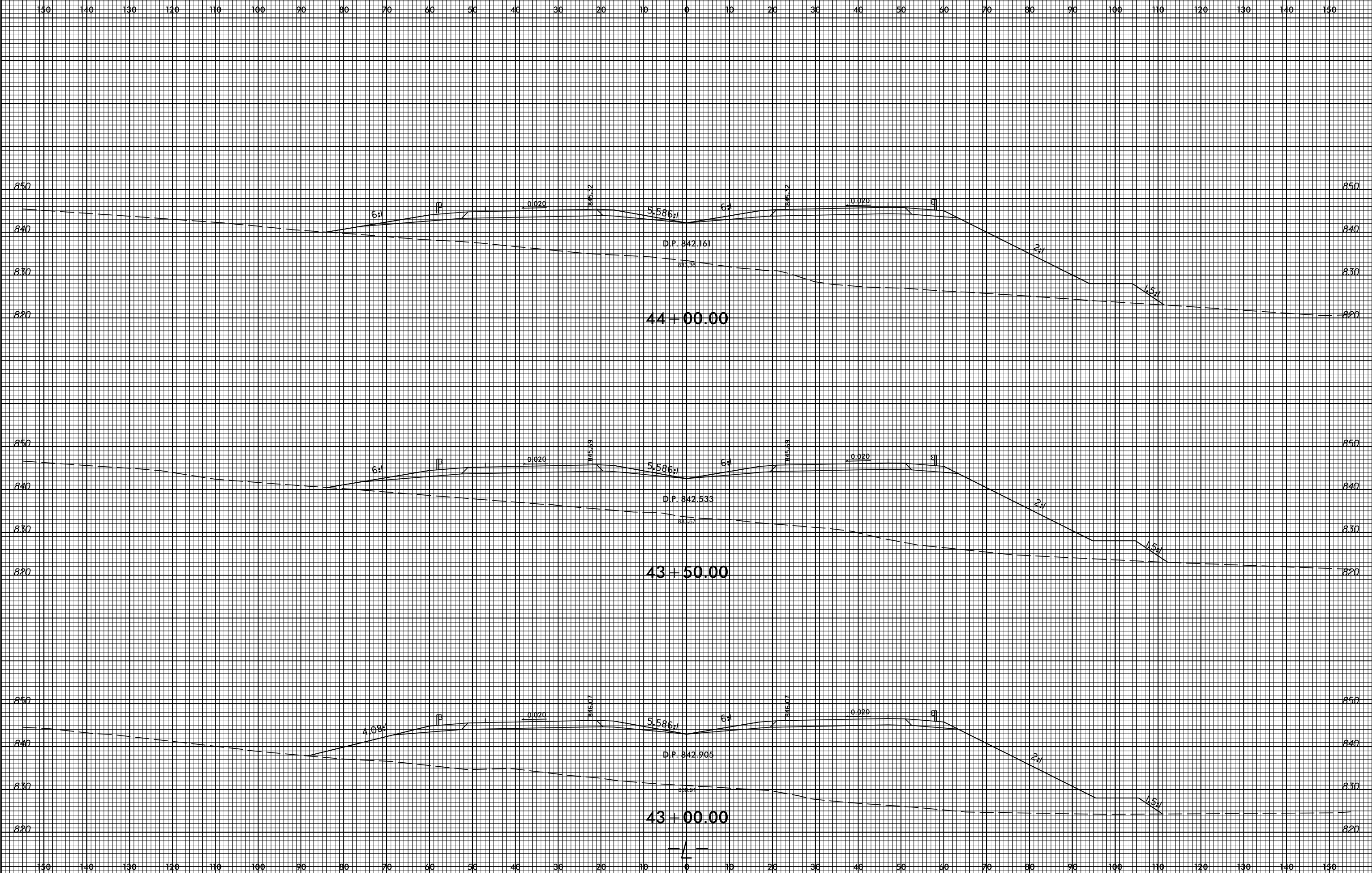


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1/3/99









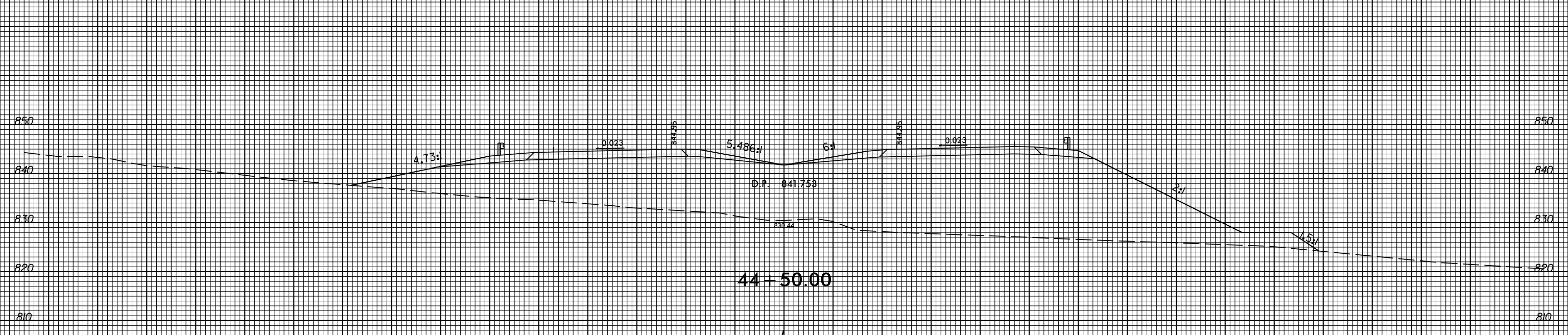
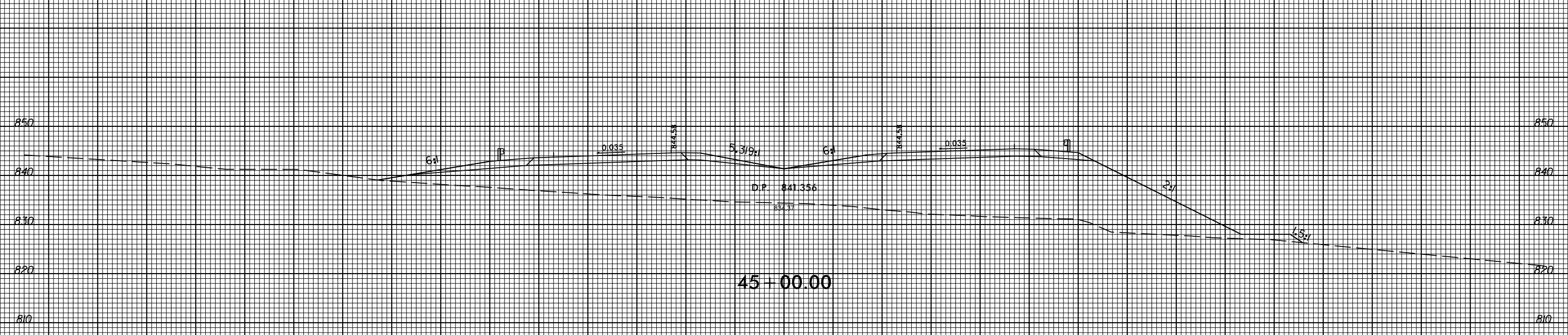
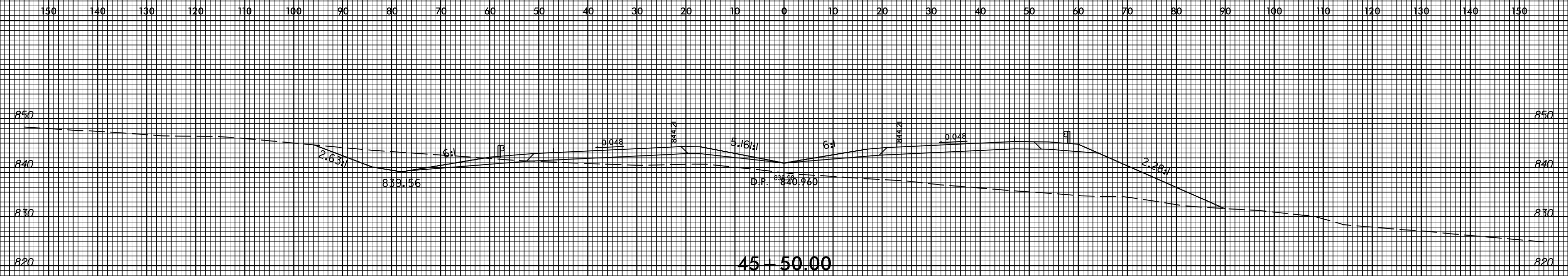


8/23/99



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X-19



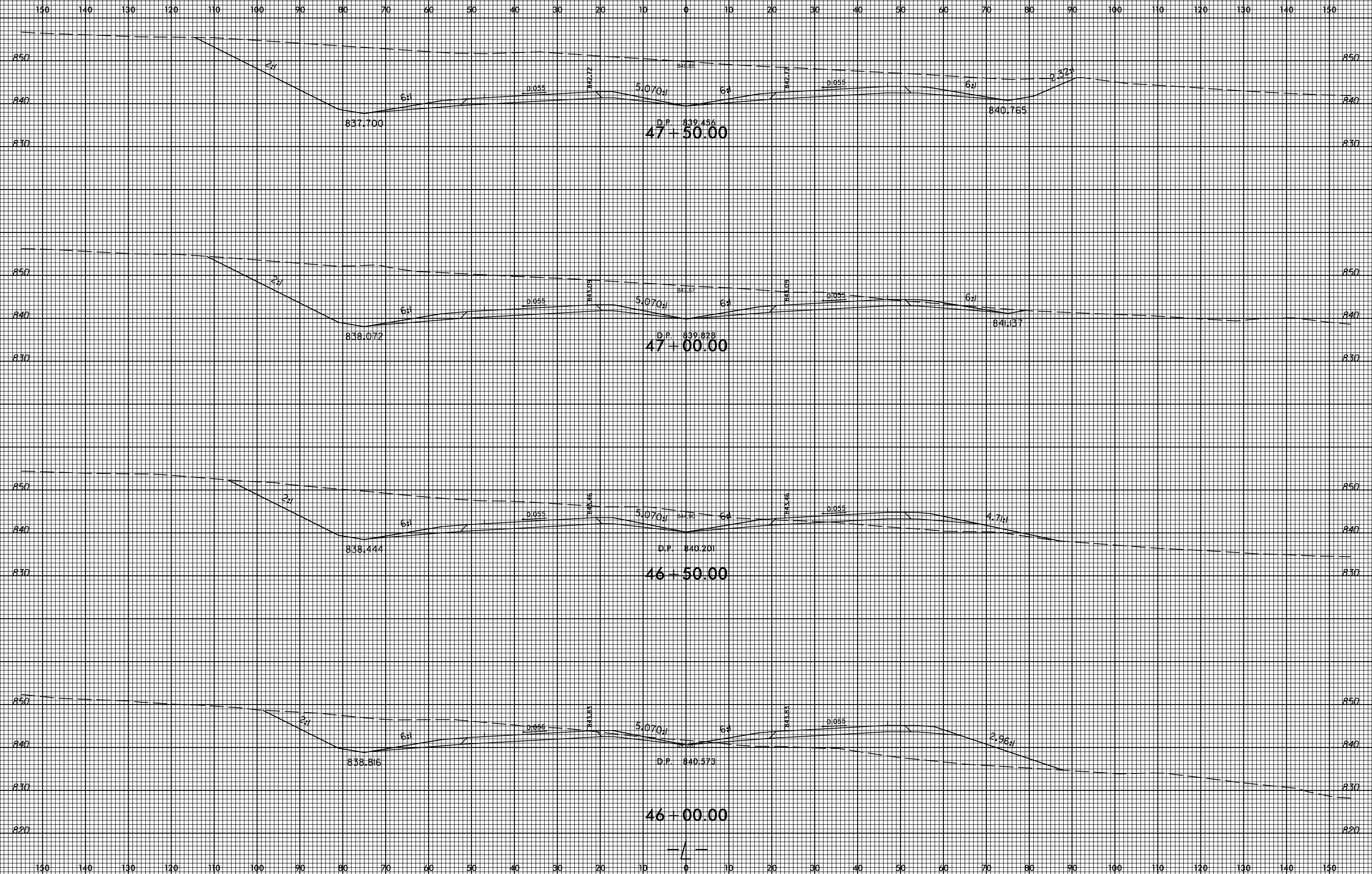
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8/23/99



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SHEET NO.  
X-20



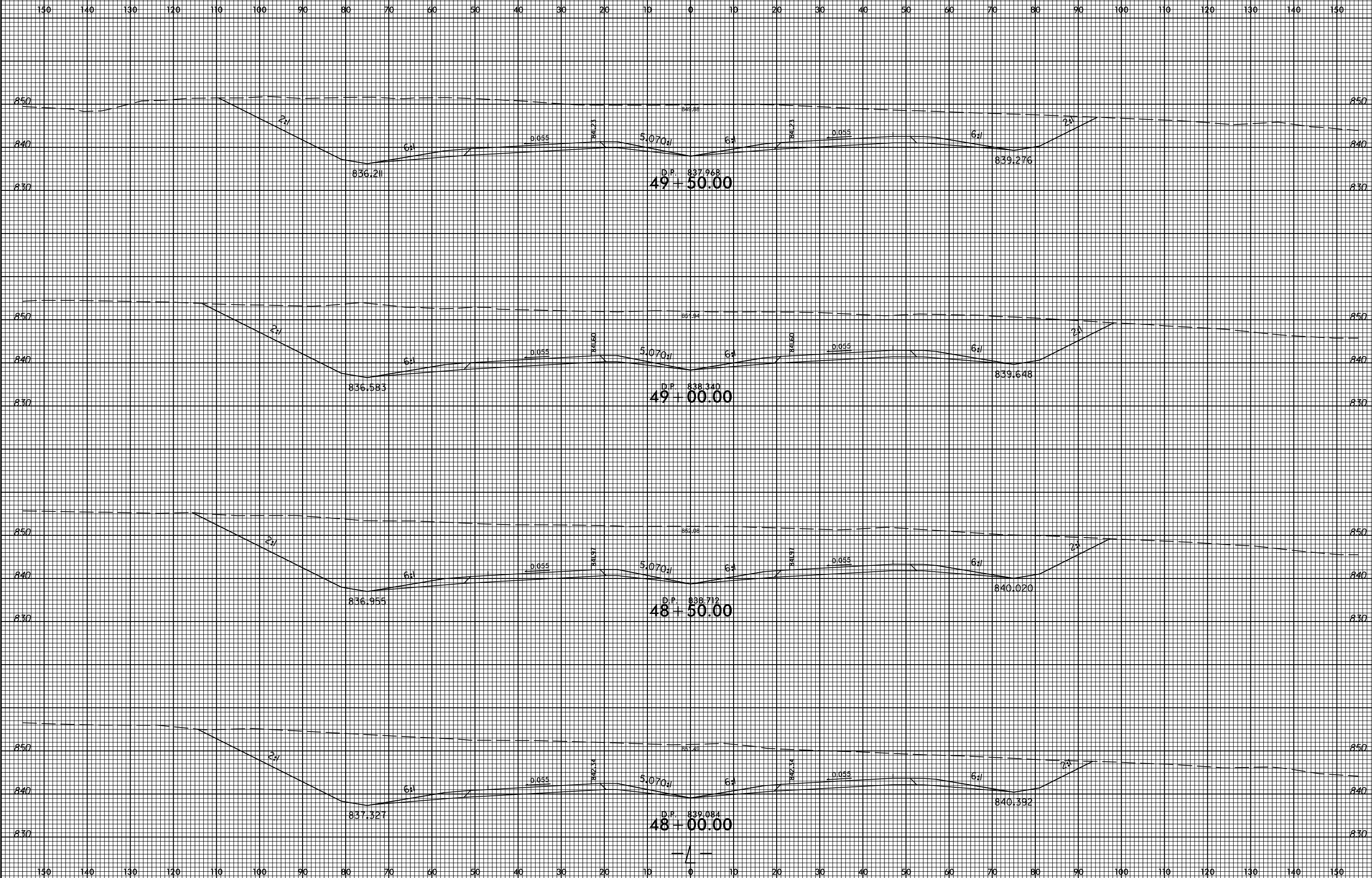
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8/23/99

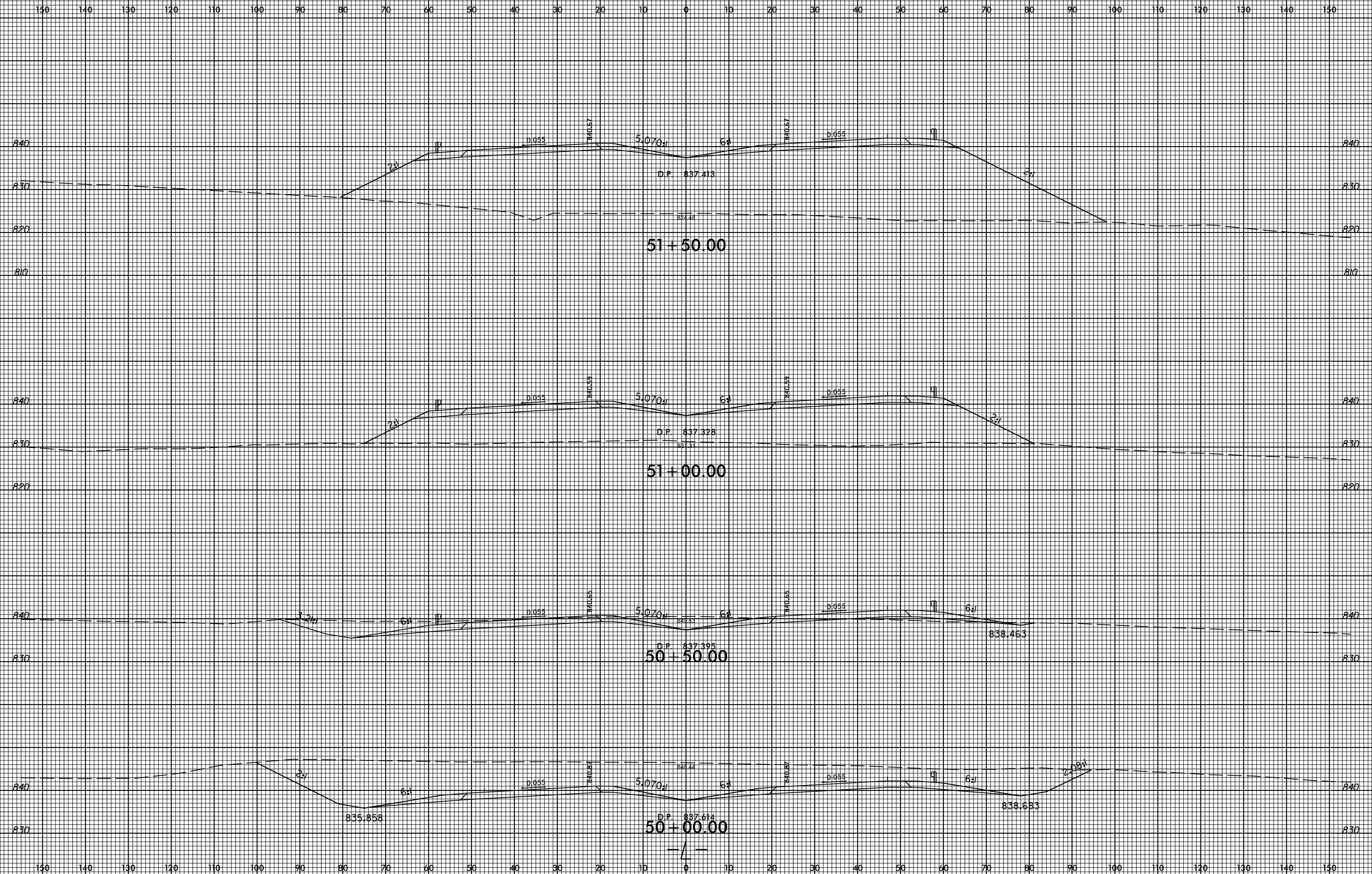


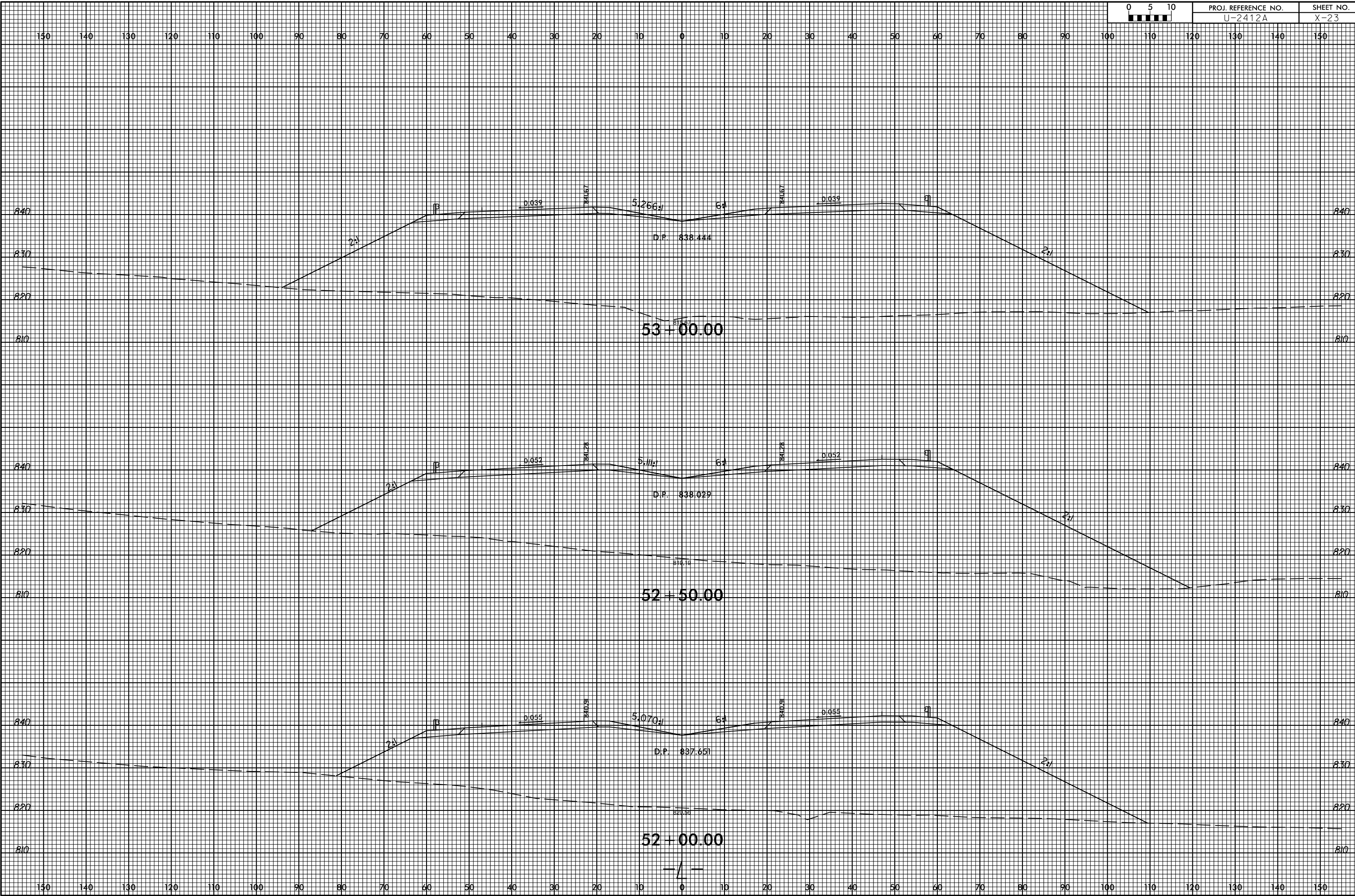
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SHEET NO.  
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13/08/99



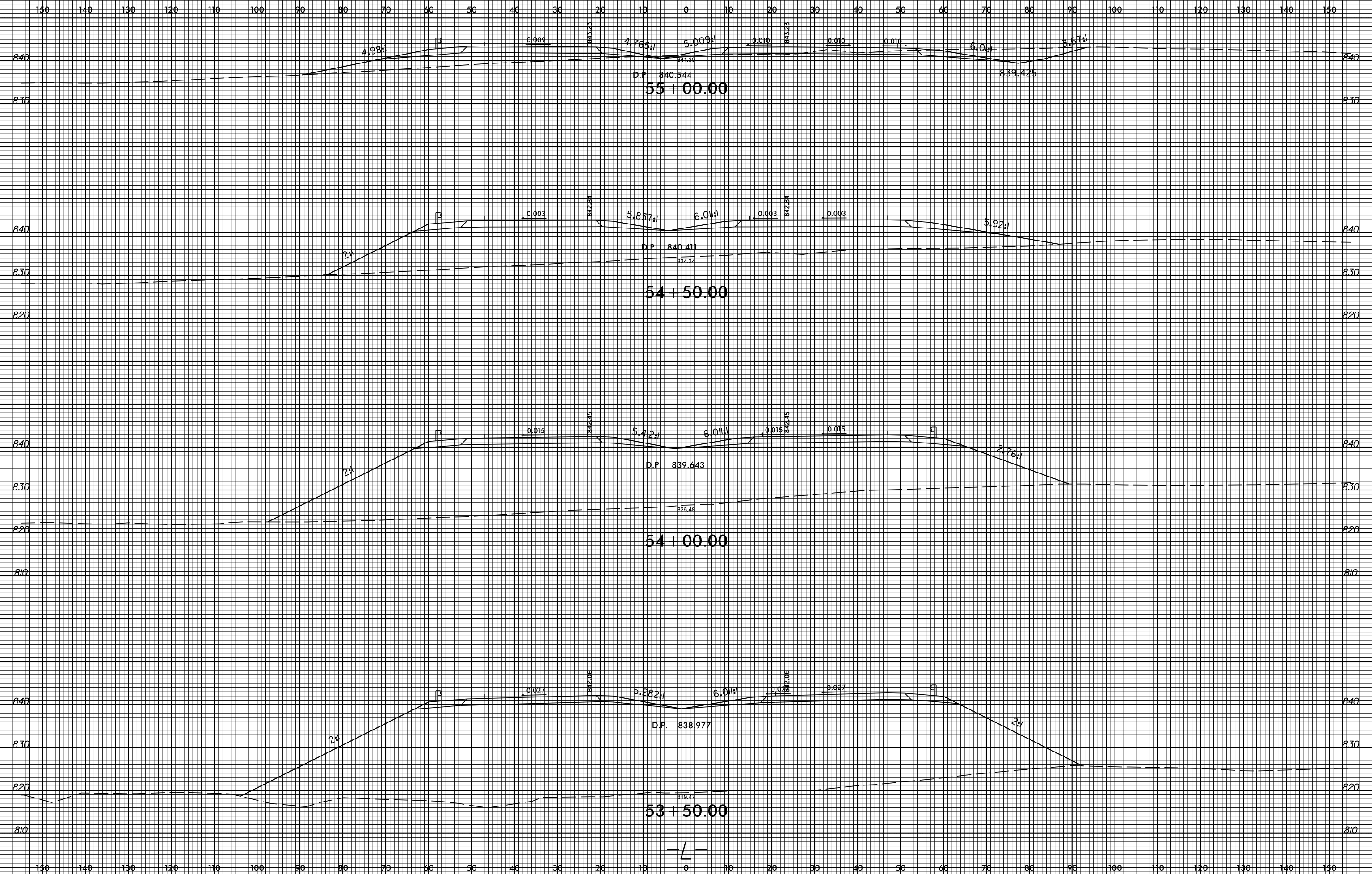


8/23/99

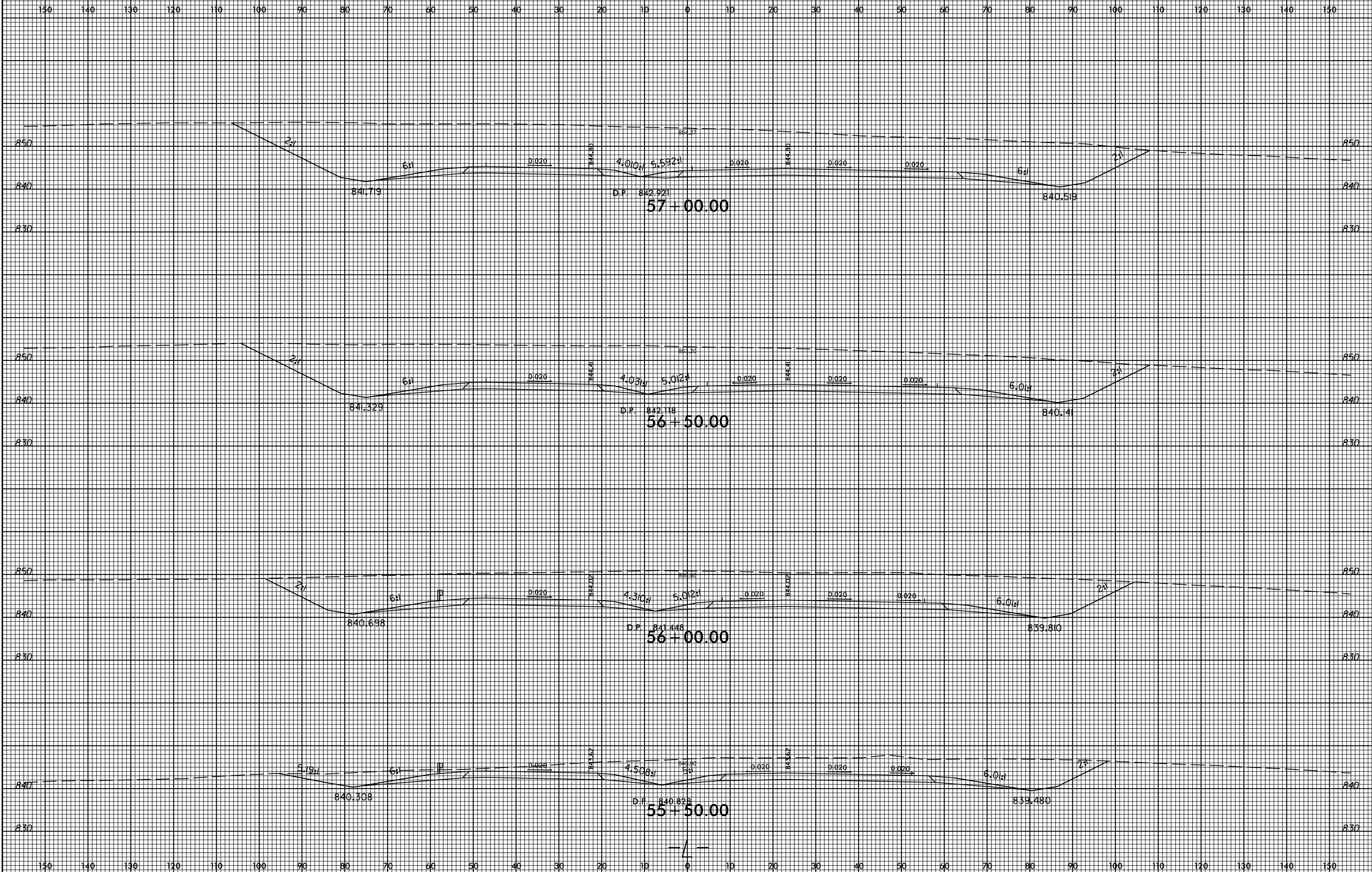


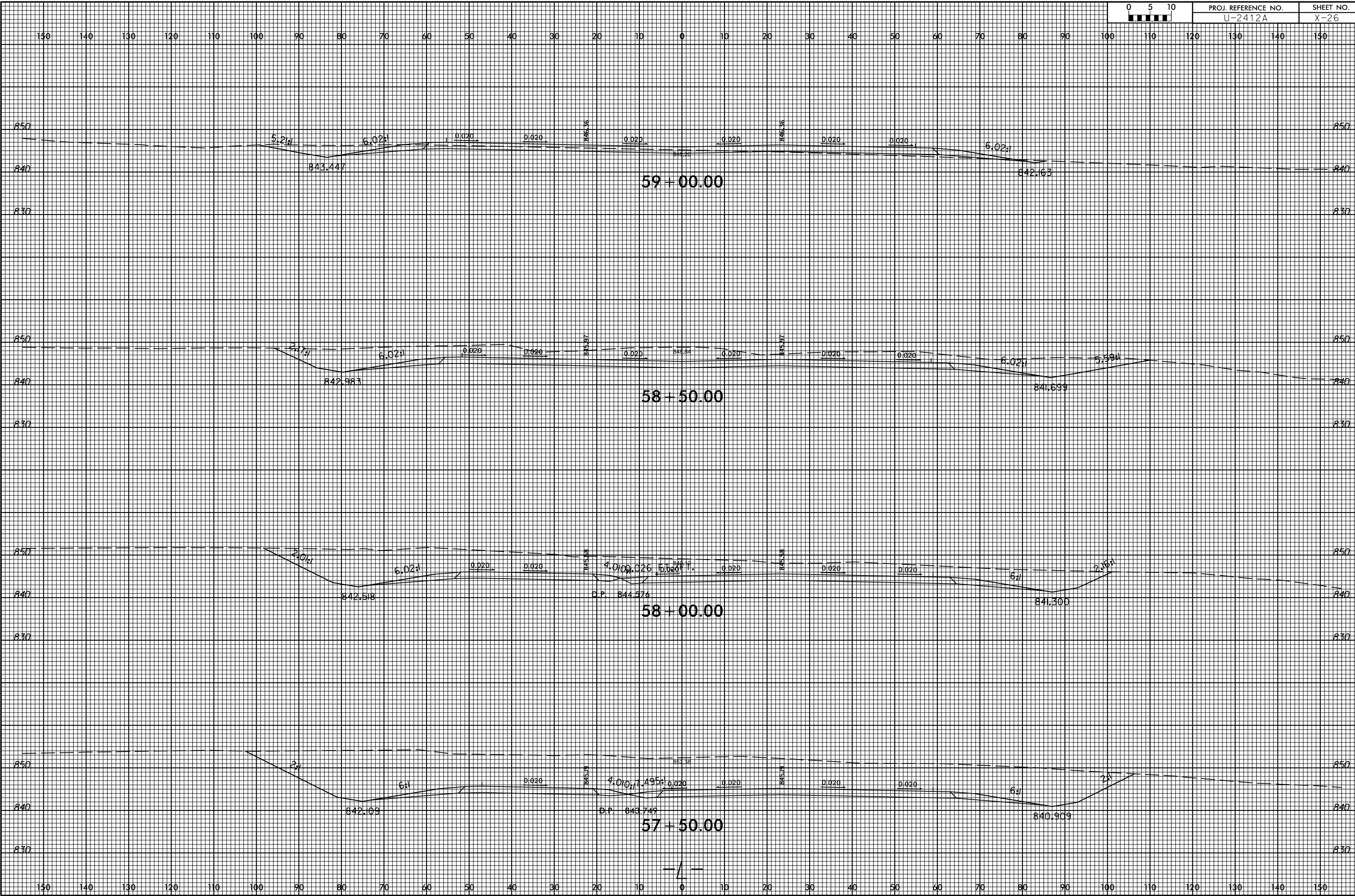
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SHEET NO.  
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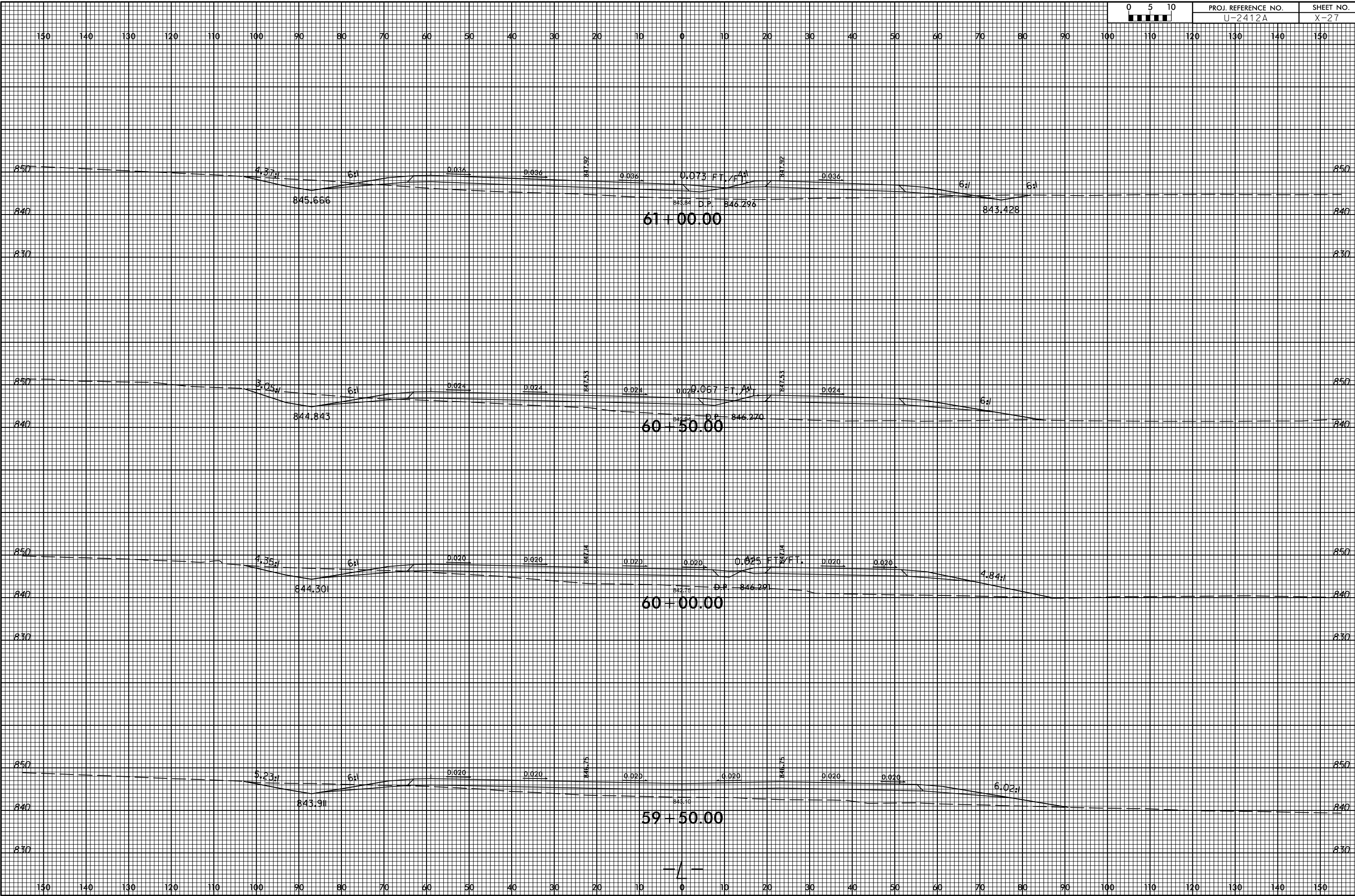


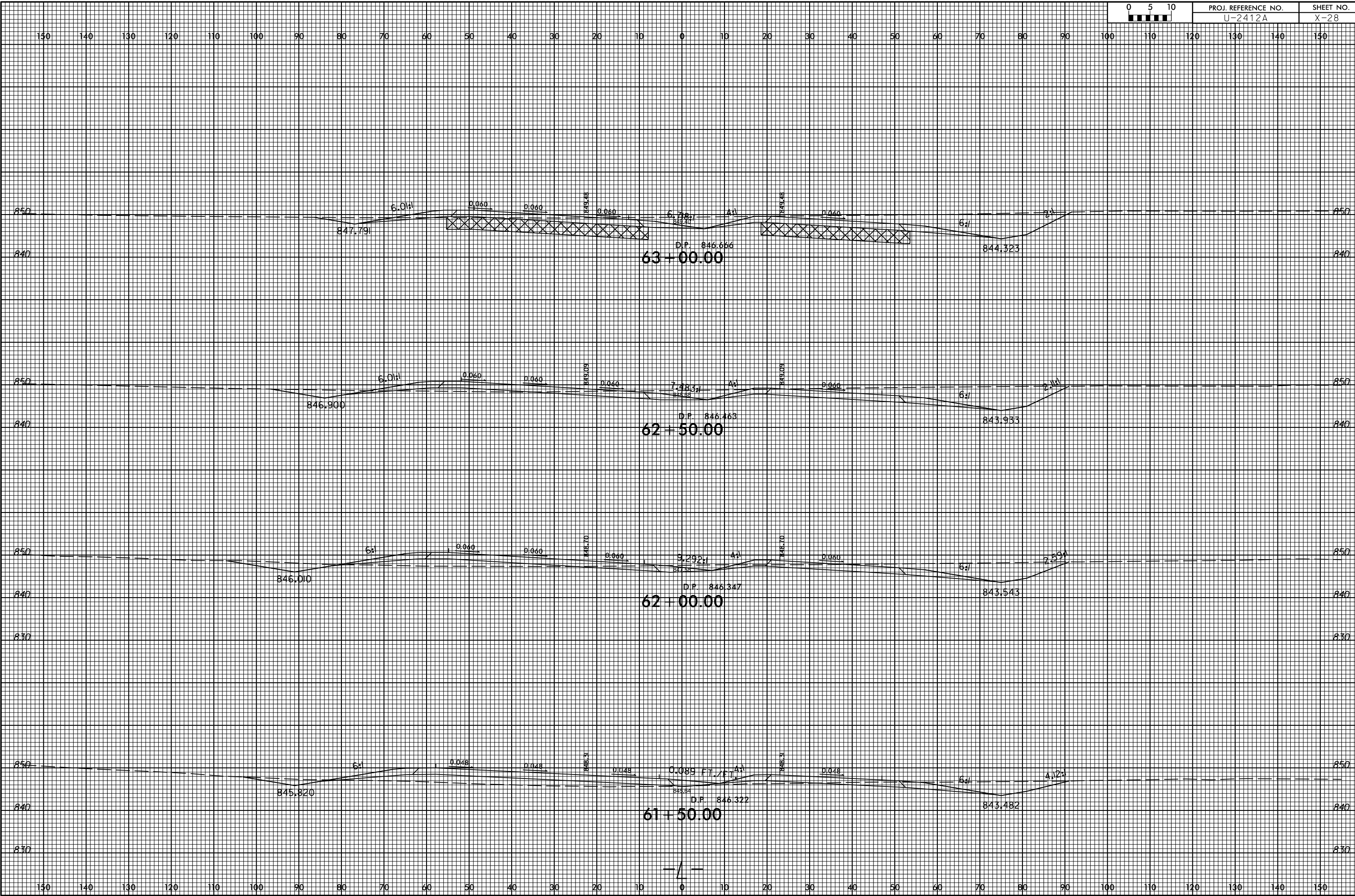
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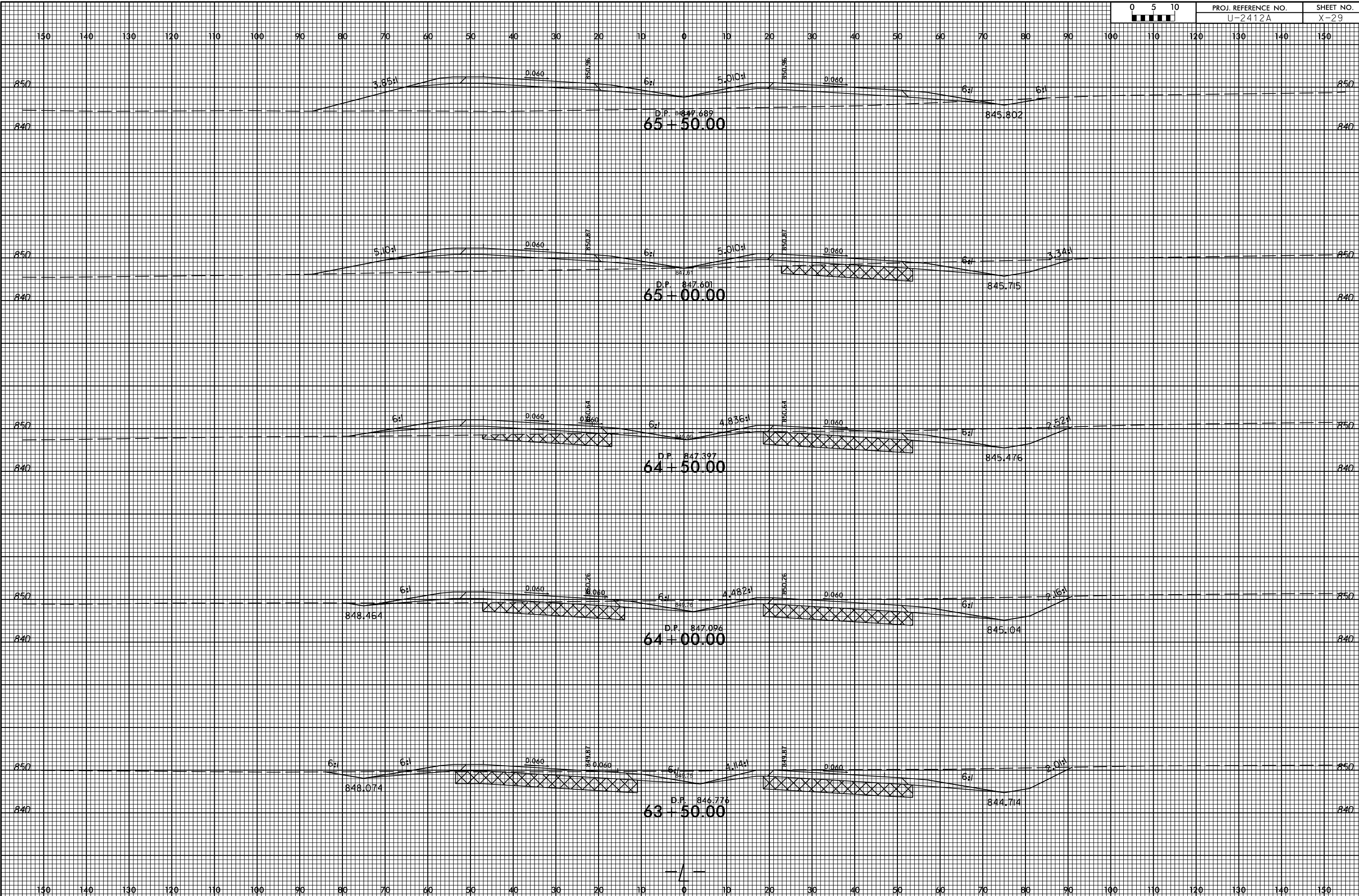


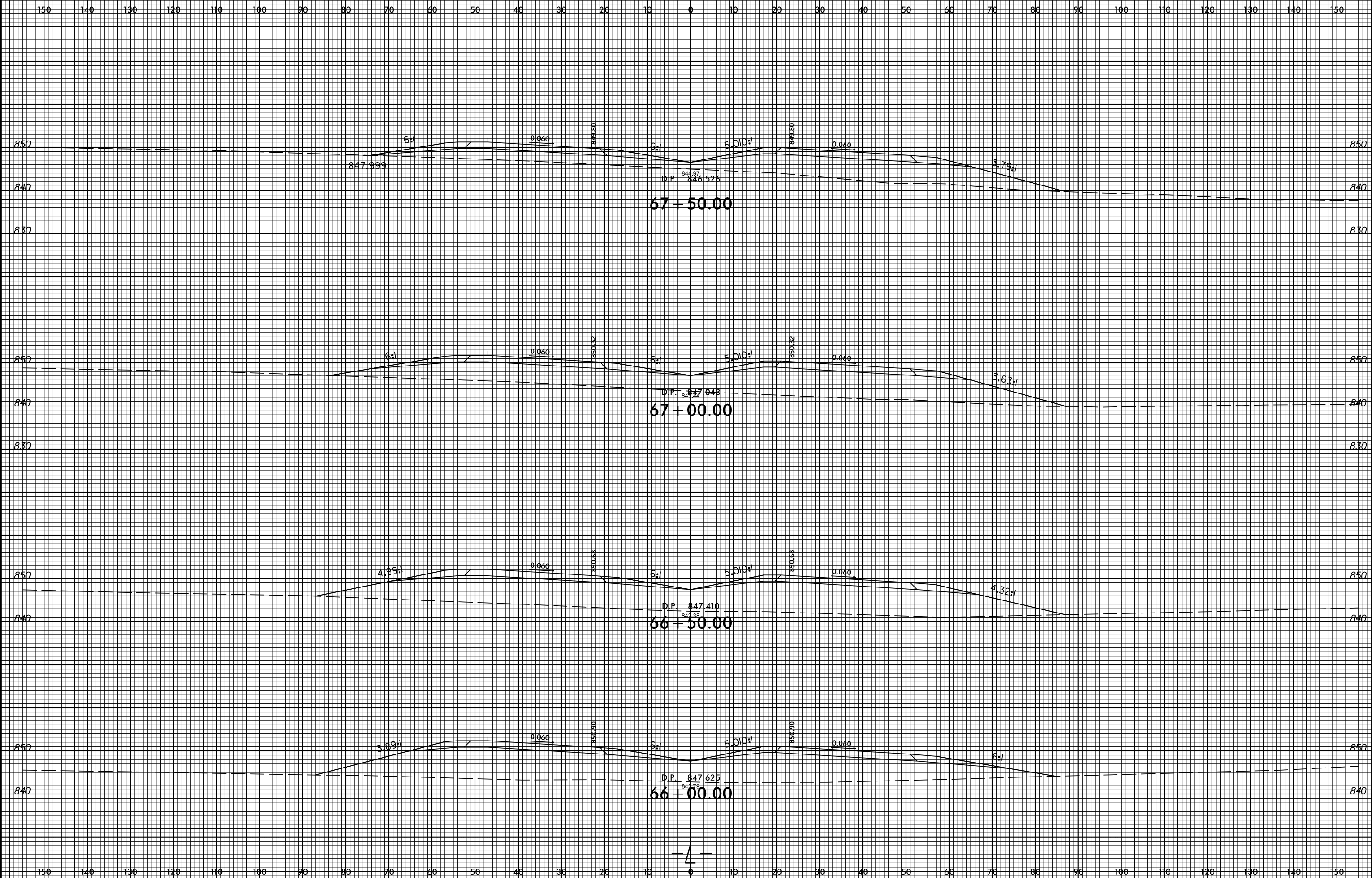










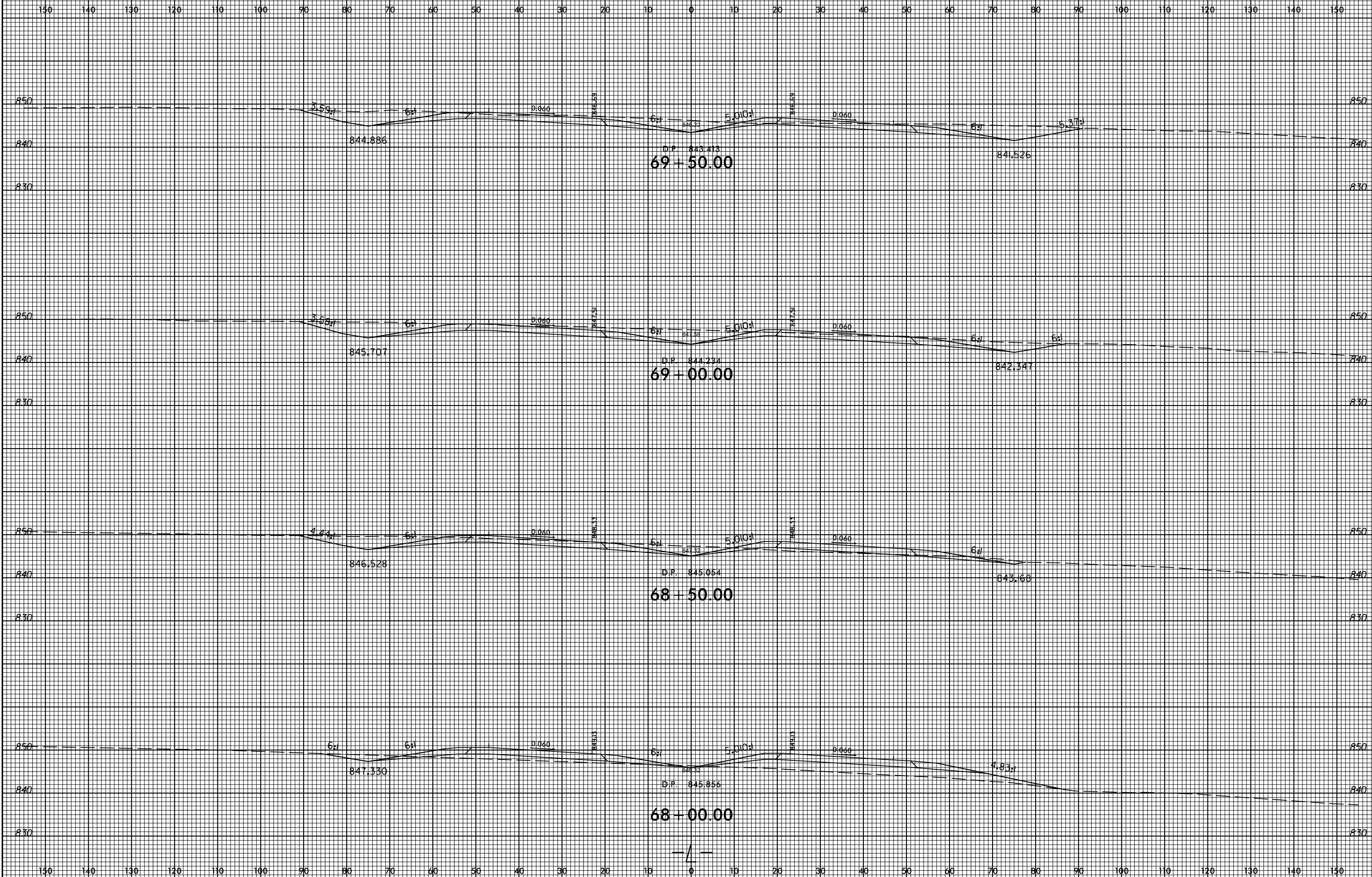


8/23/99

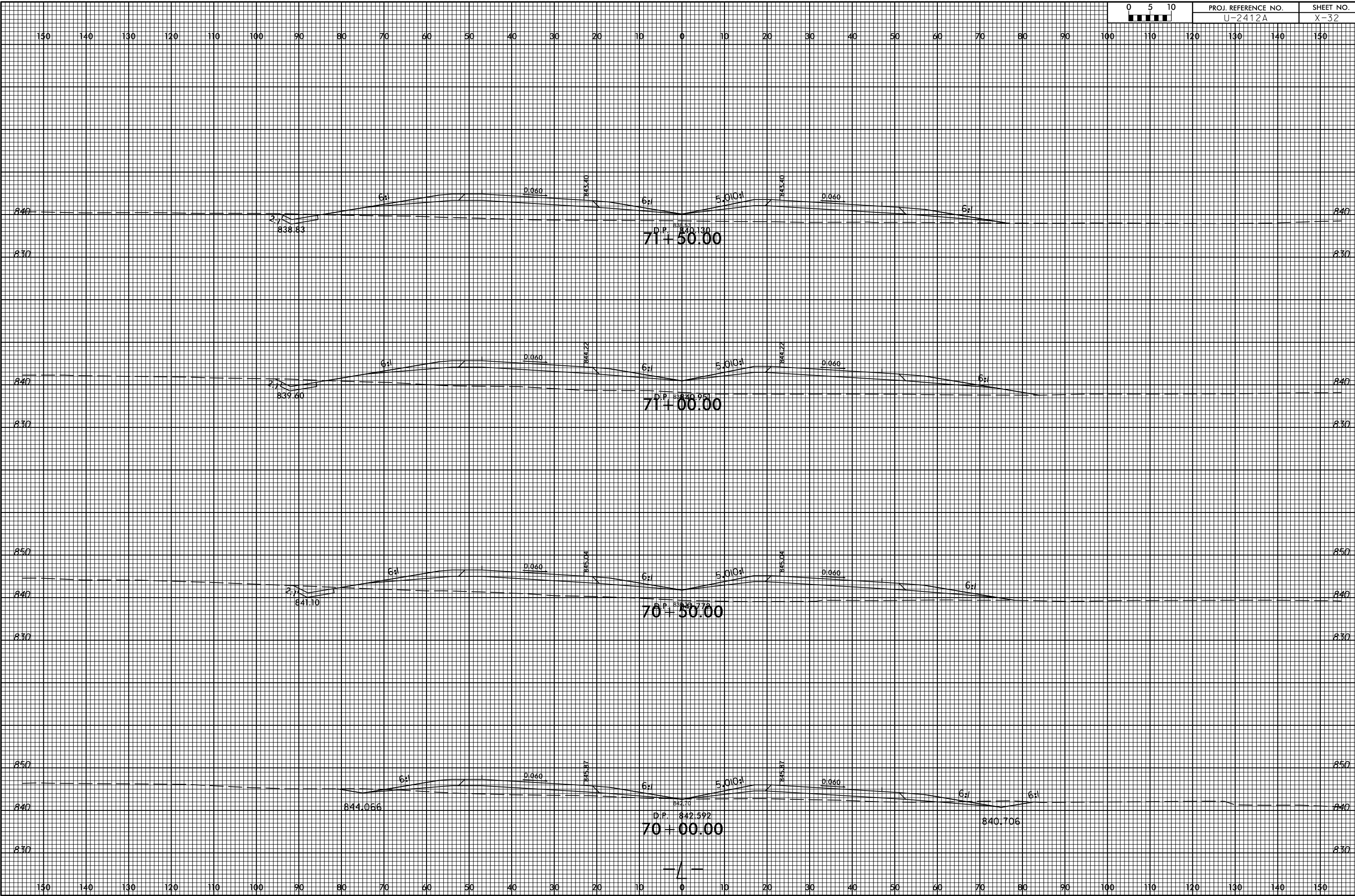


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11/3/99

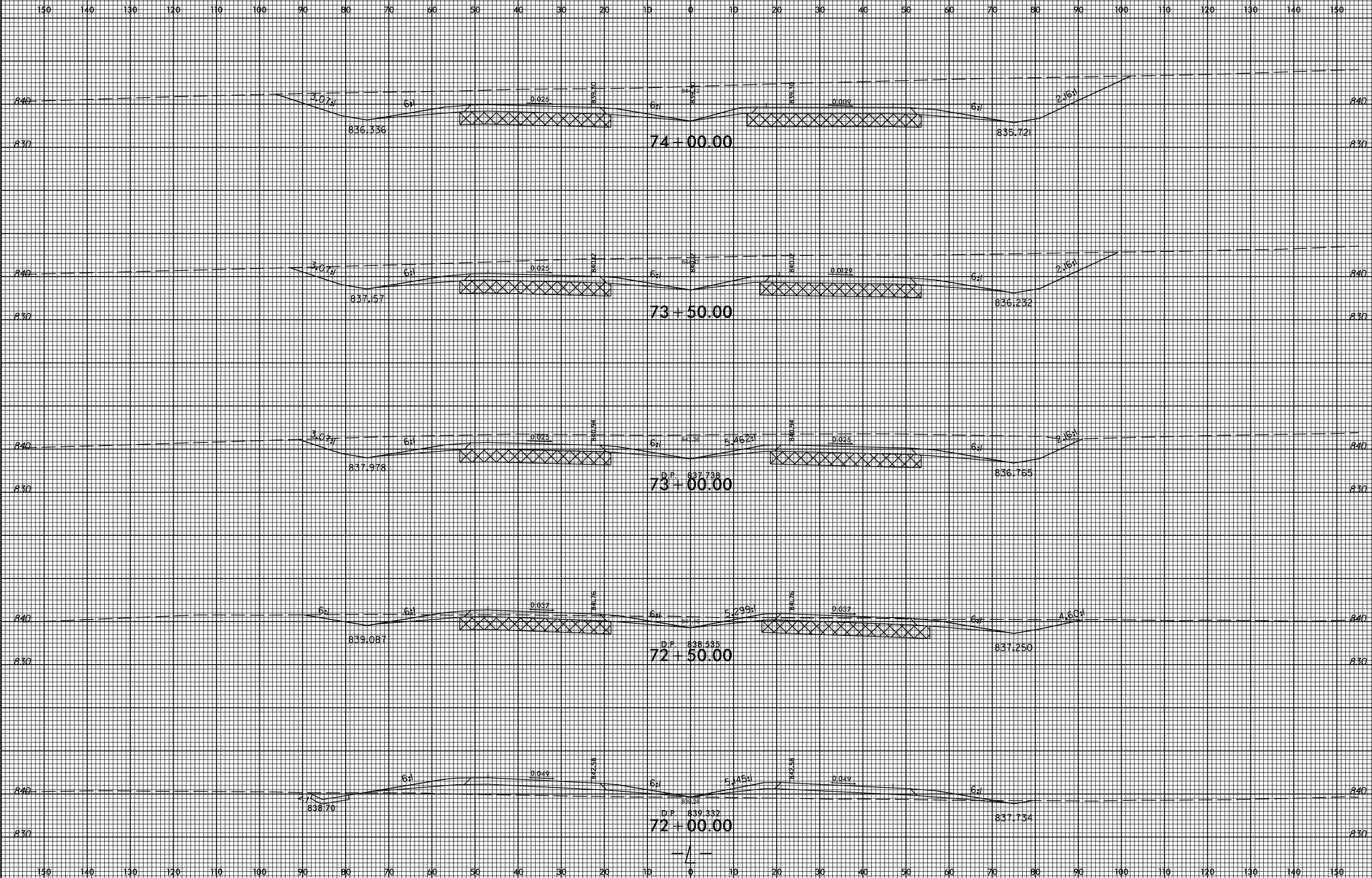


8/23/99

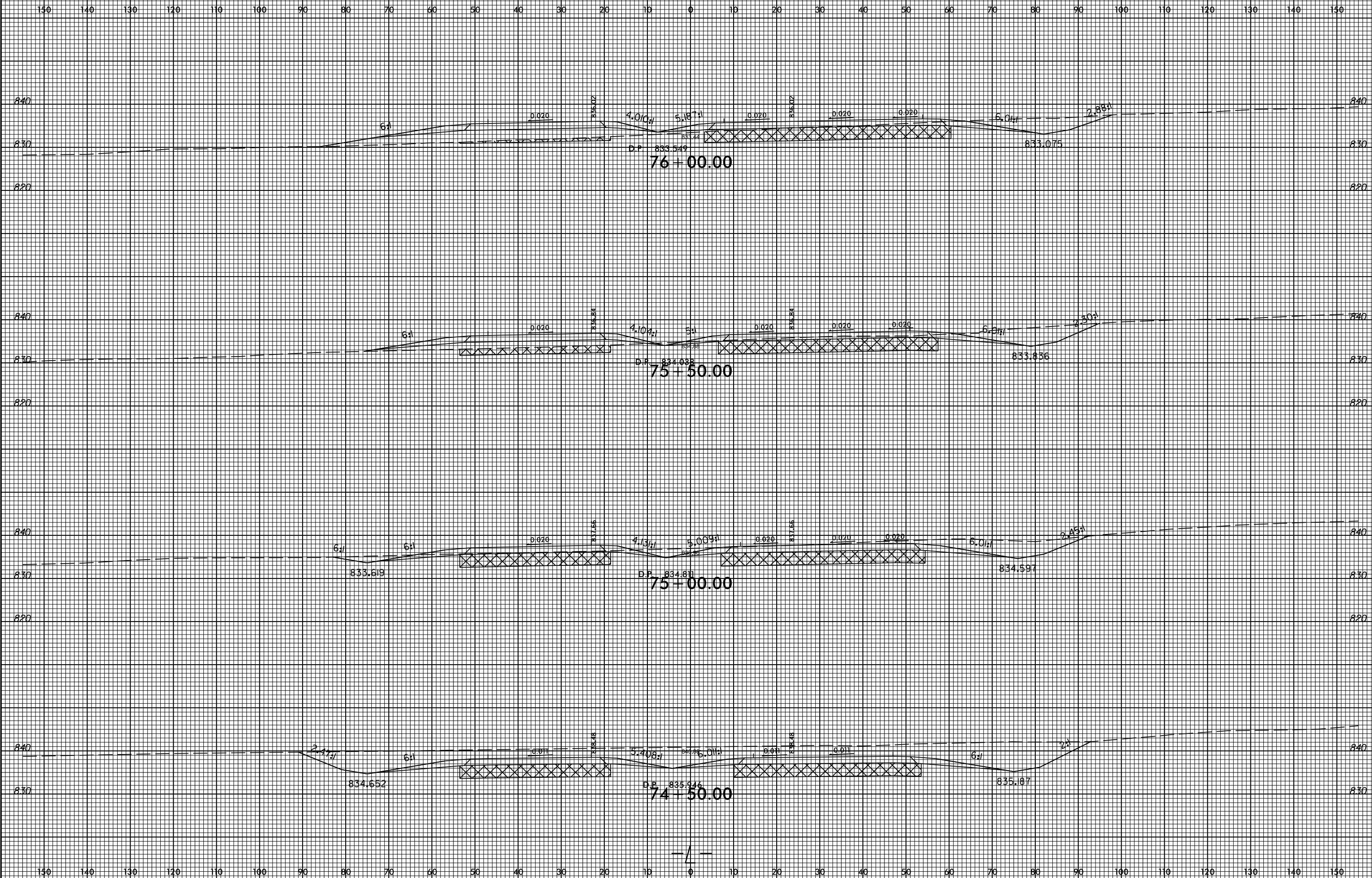


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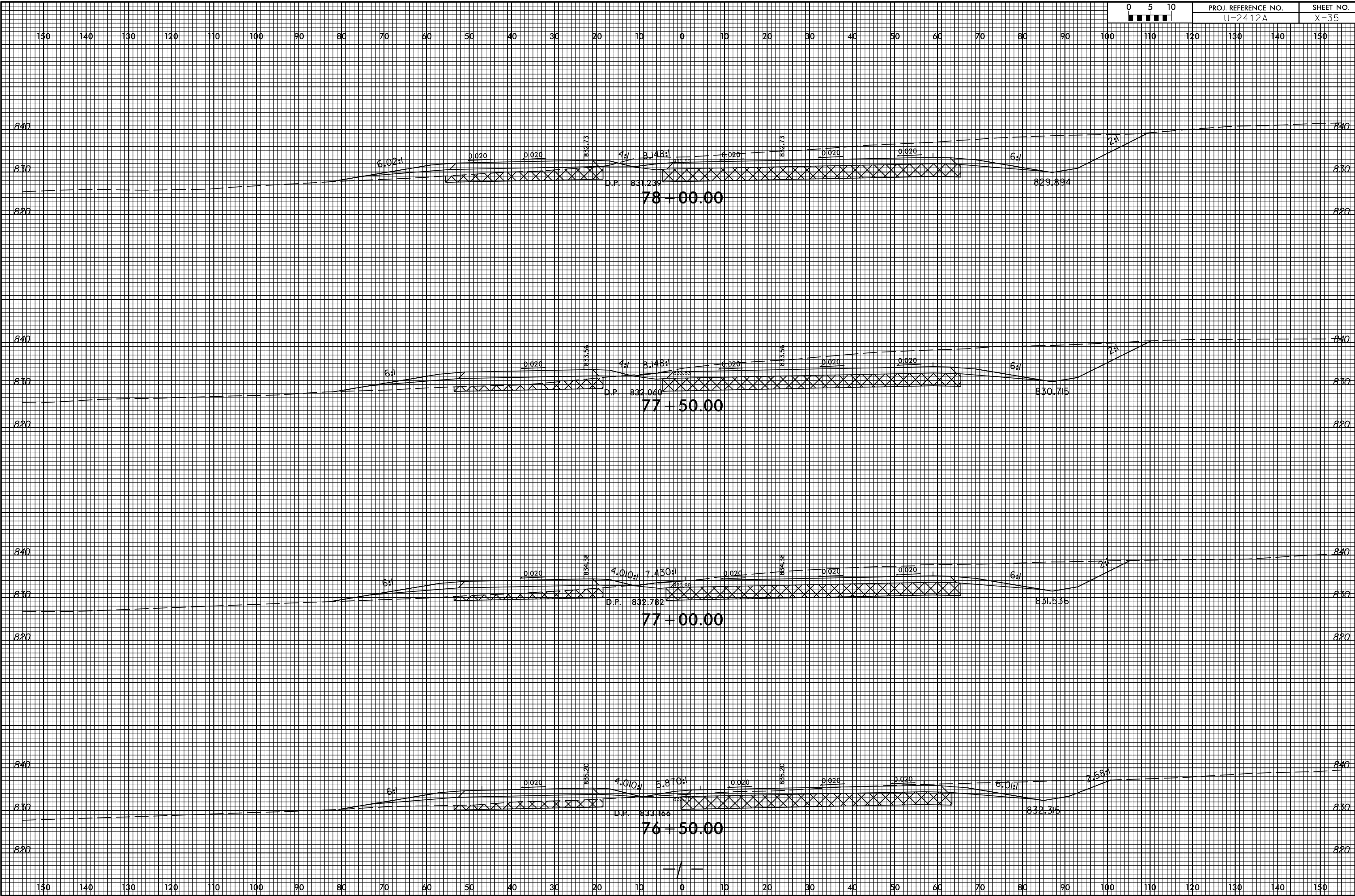


8/23/99

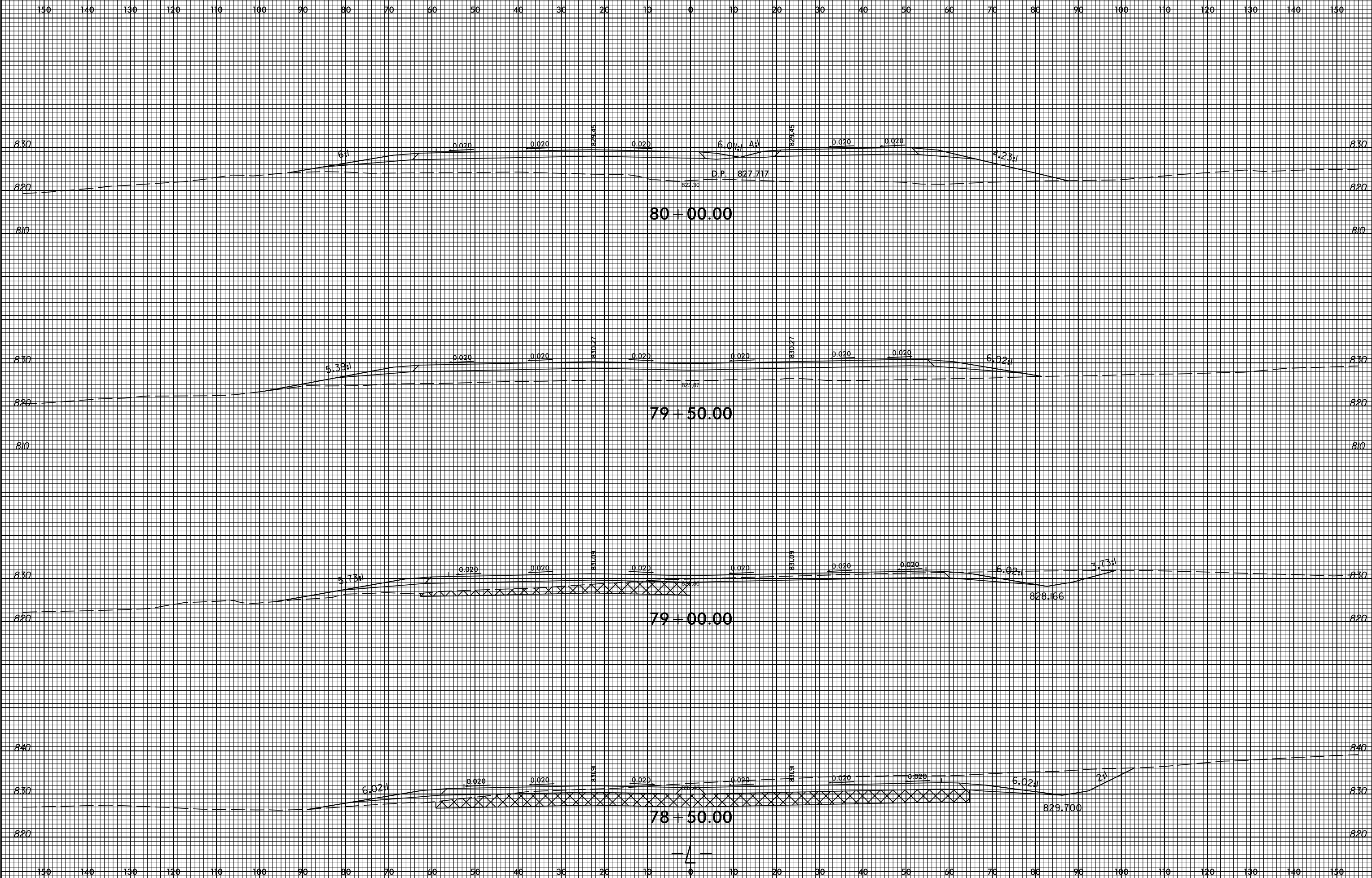


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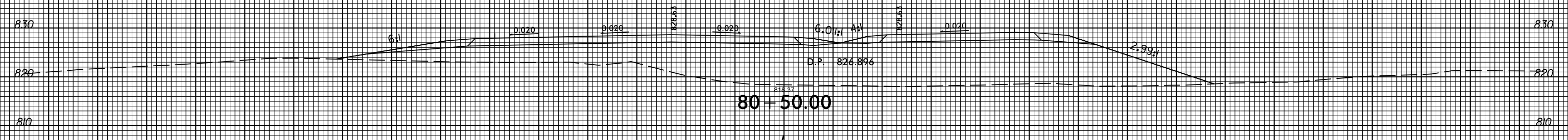
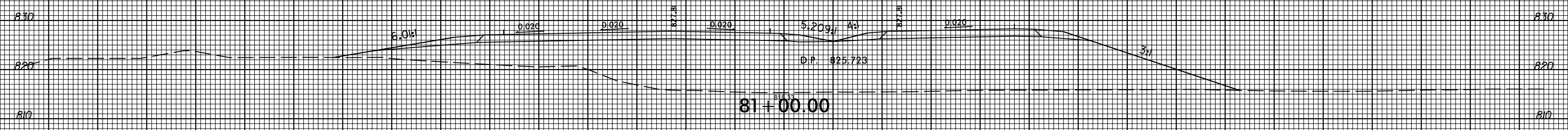
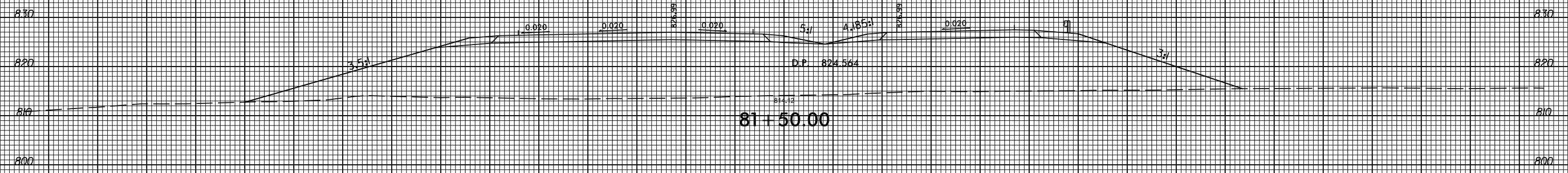
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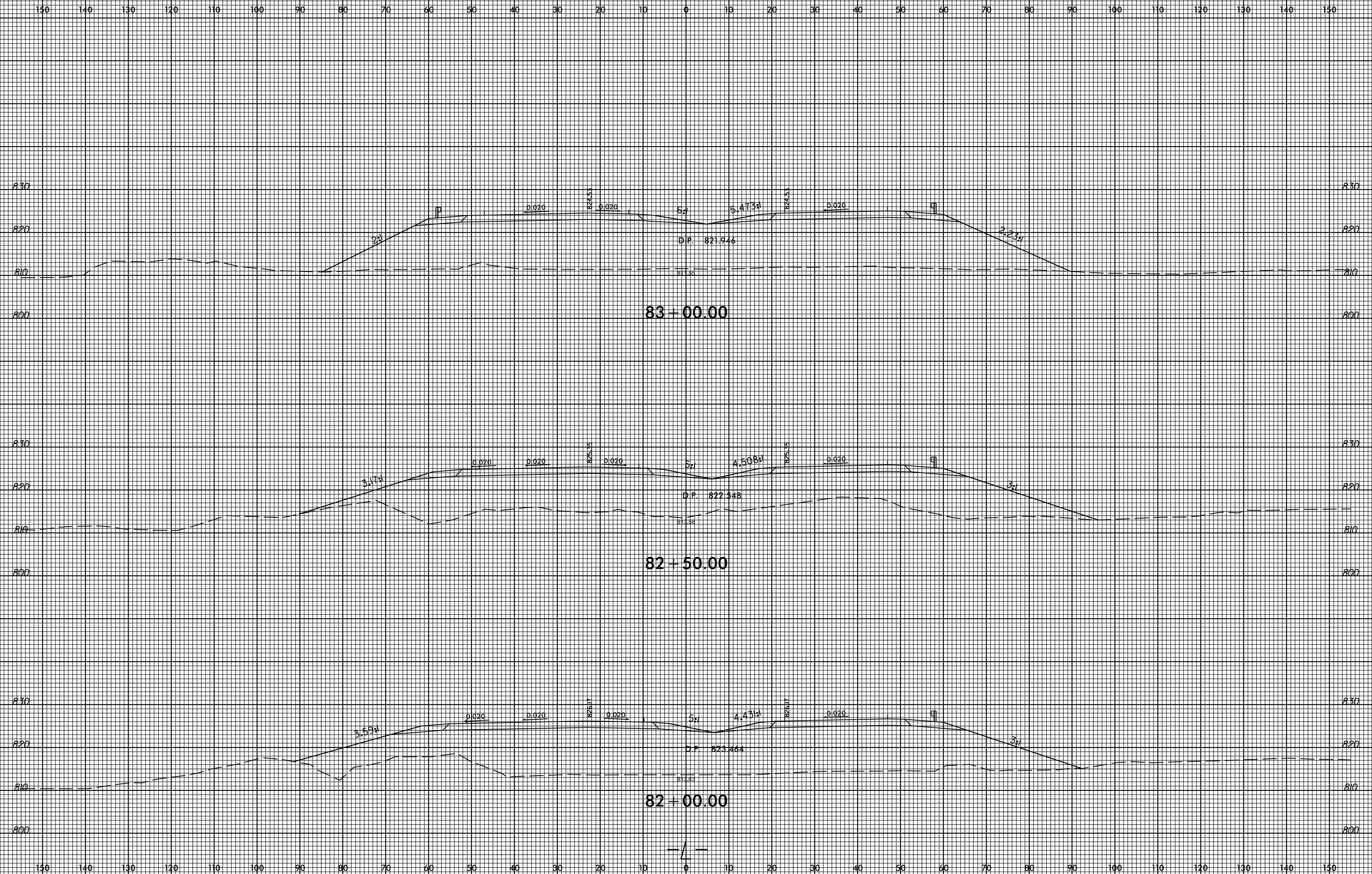


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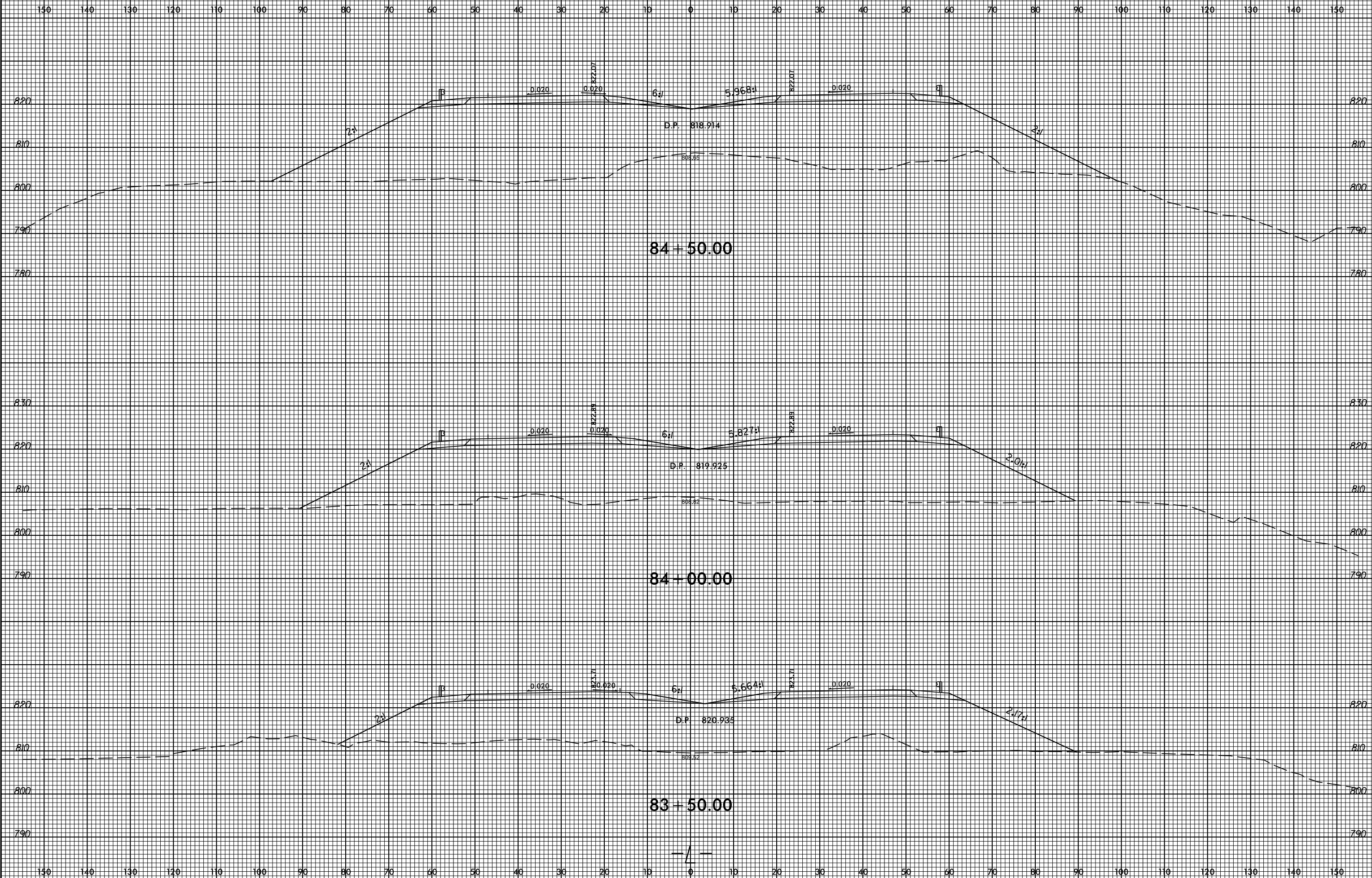


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-39



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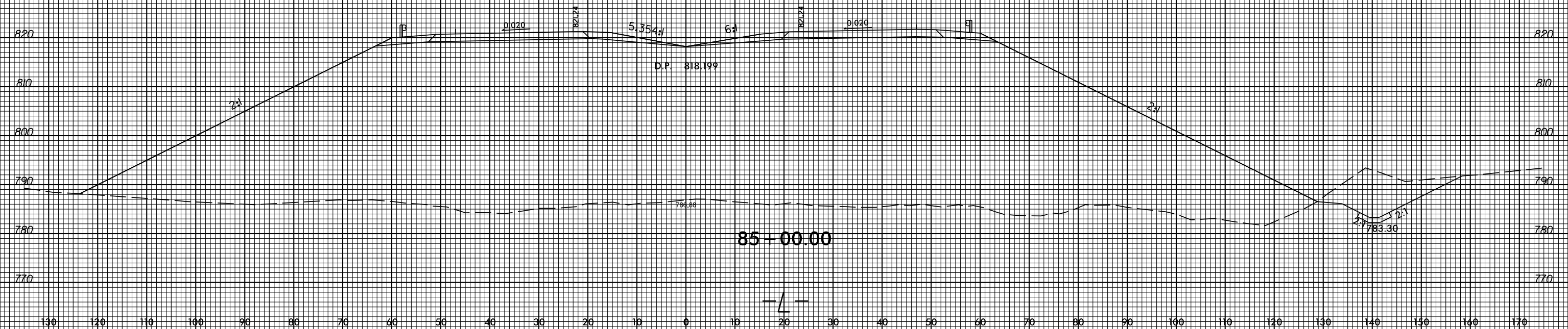
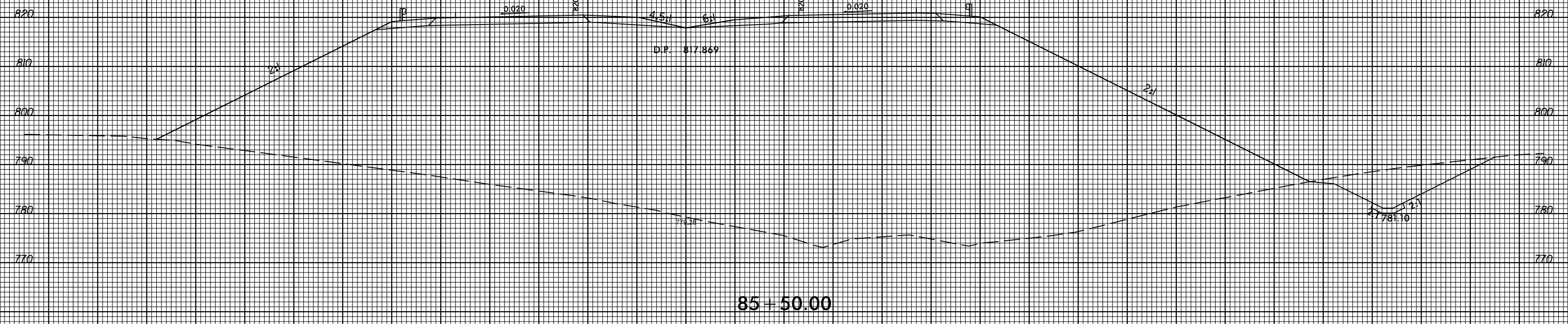
8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-40

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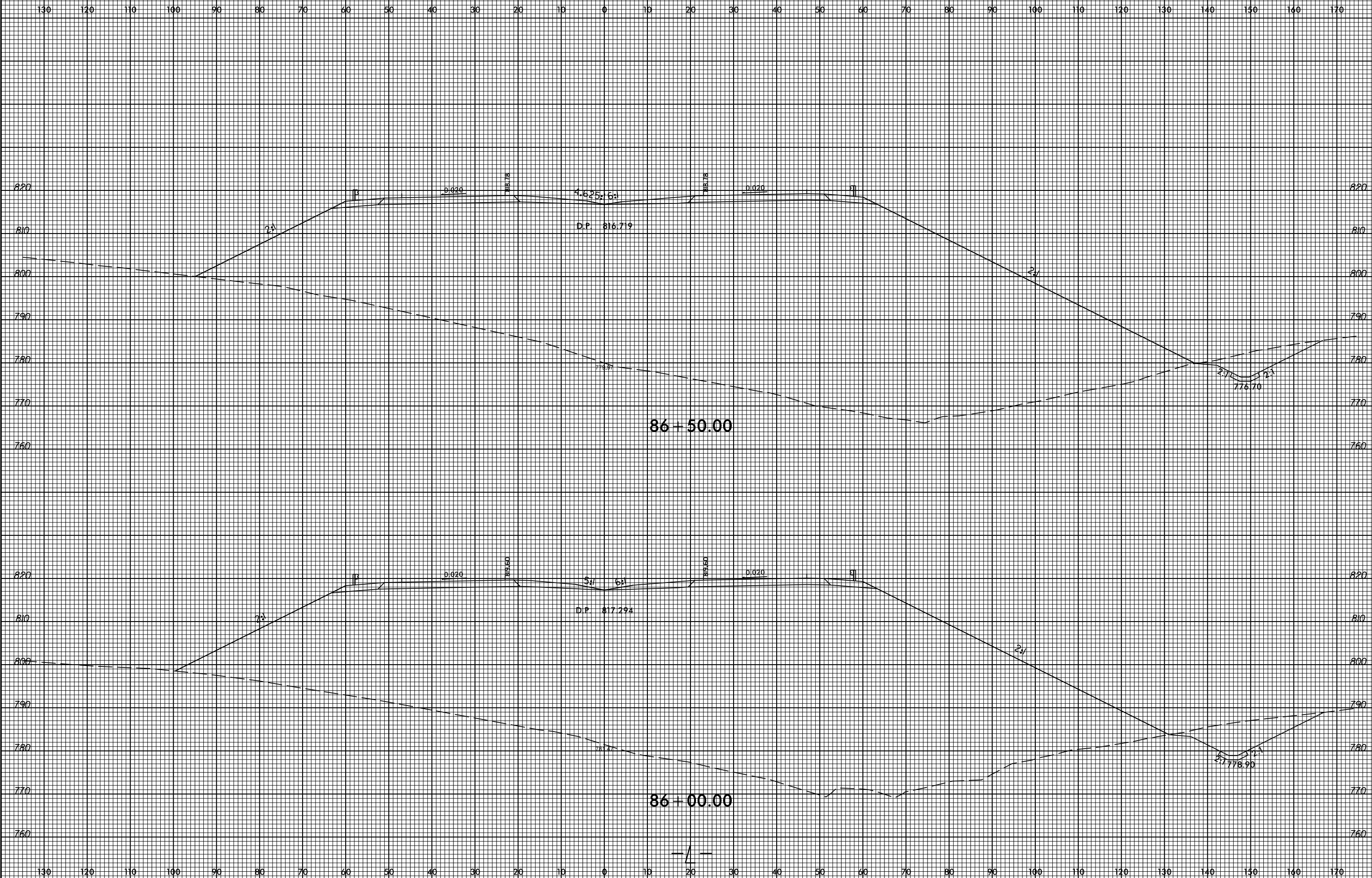
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8/23/99

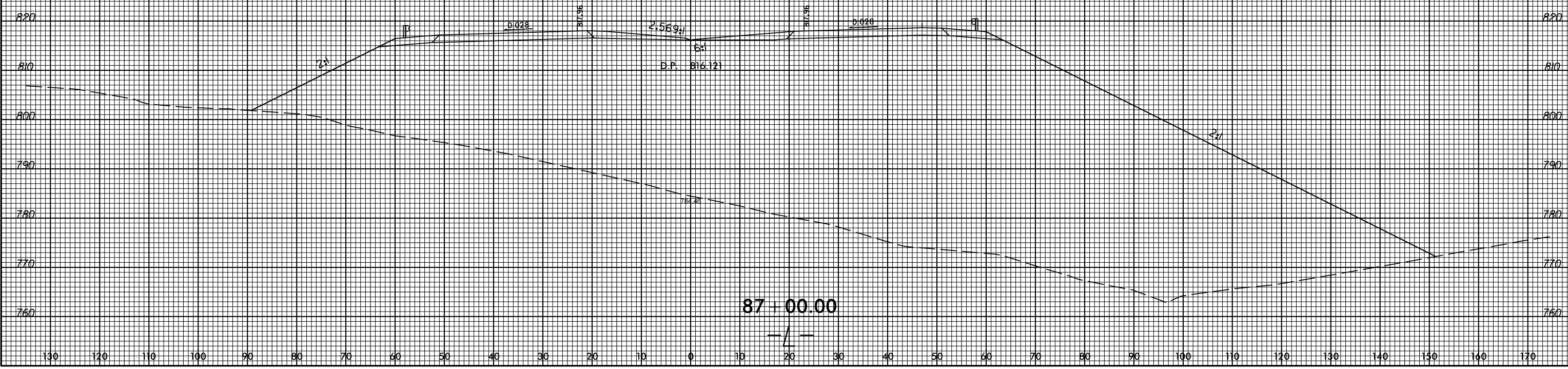
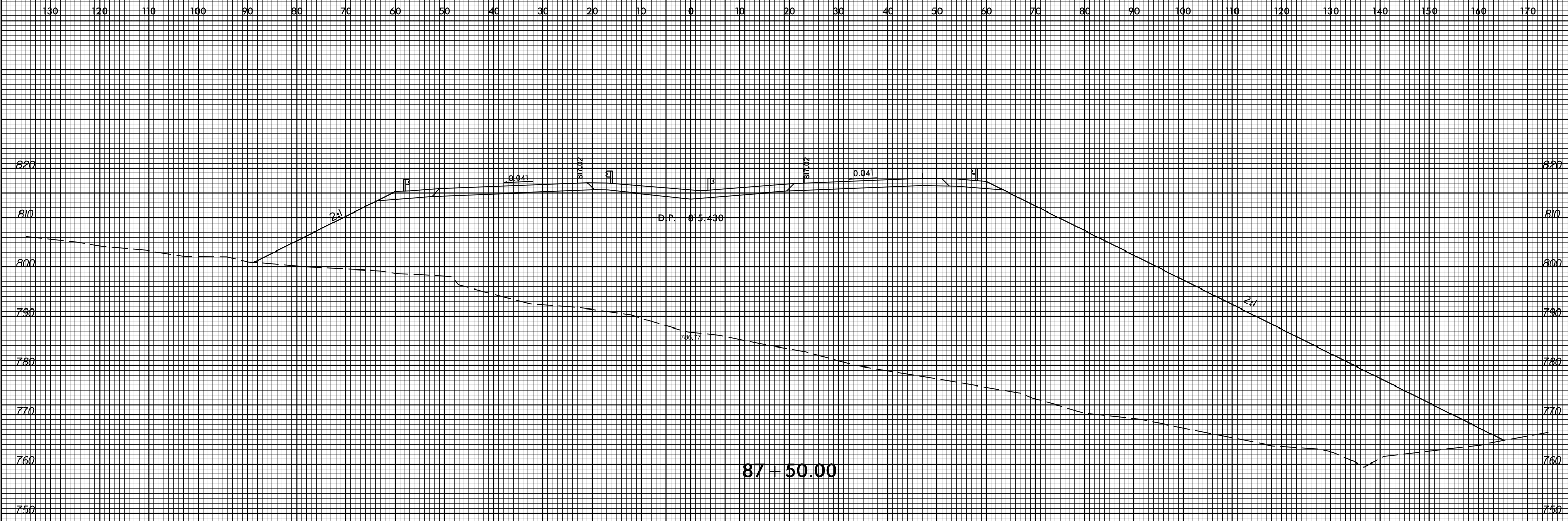


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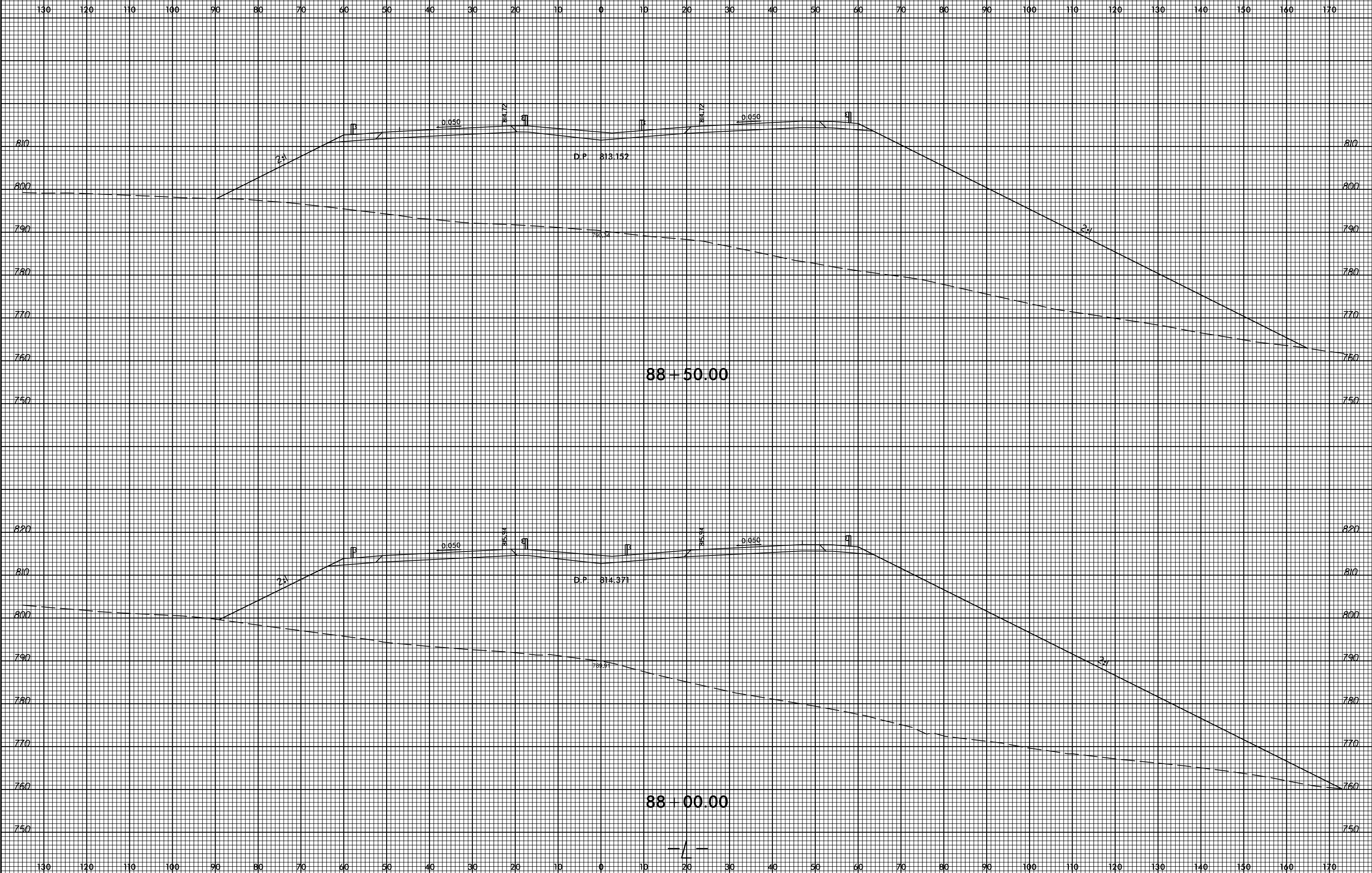
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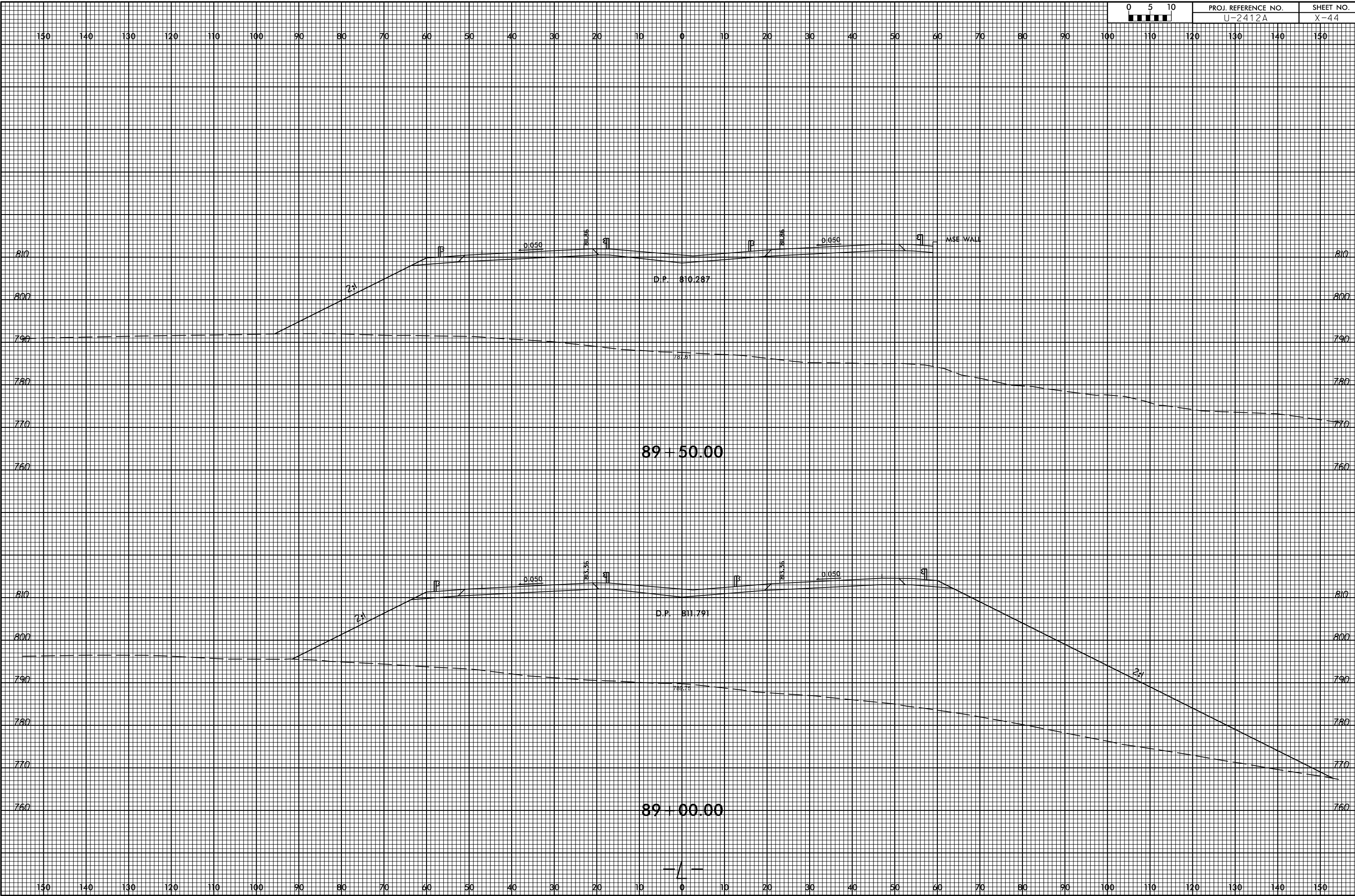


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7/13/99









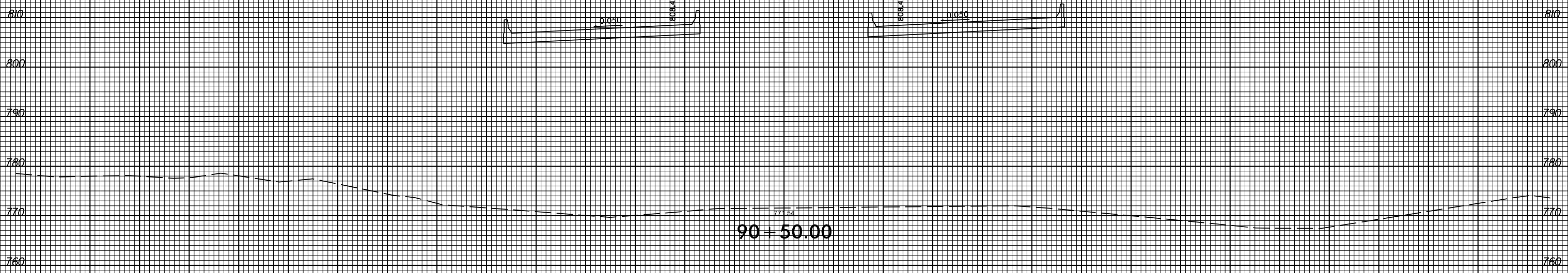
8/23/99



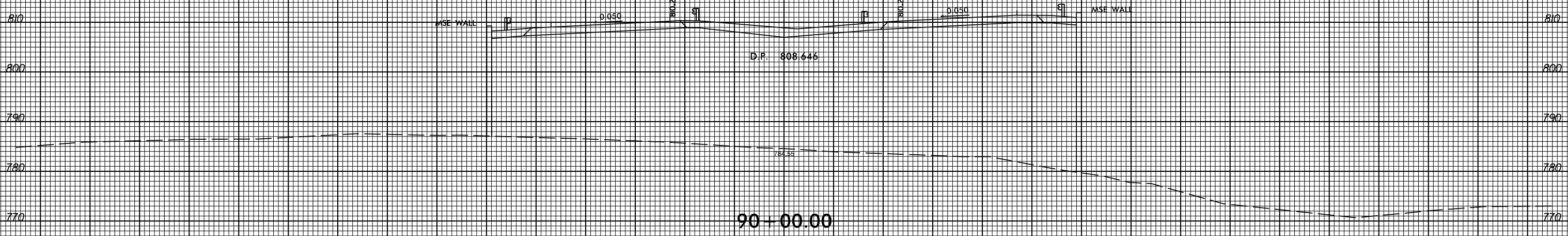
PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-45

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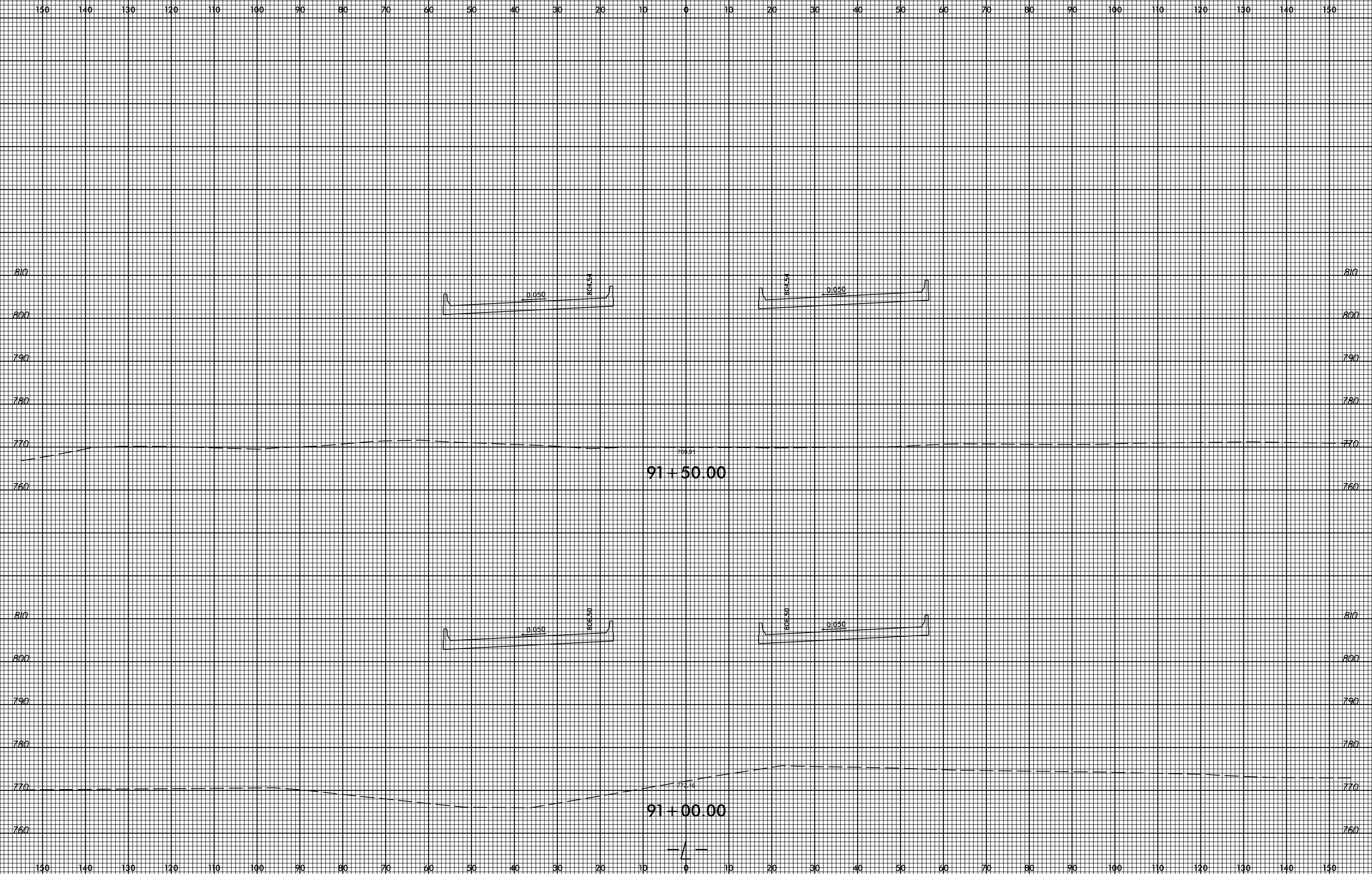
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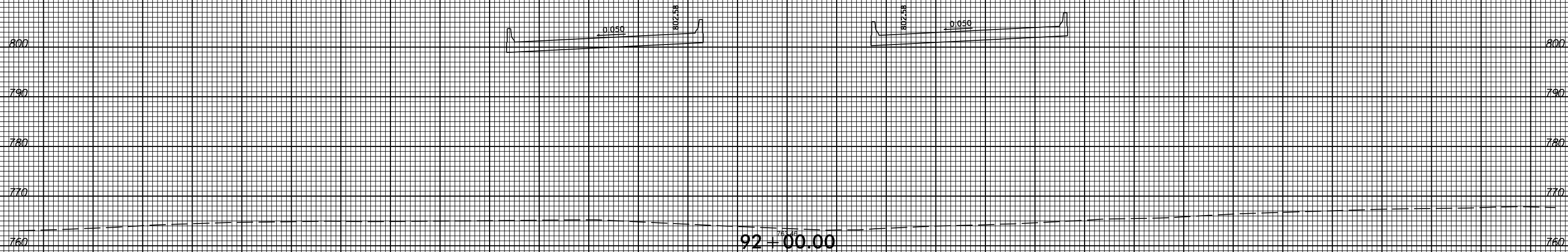
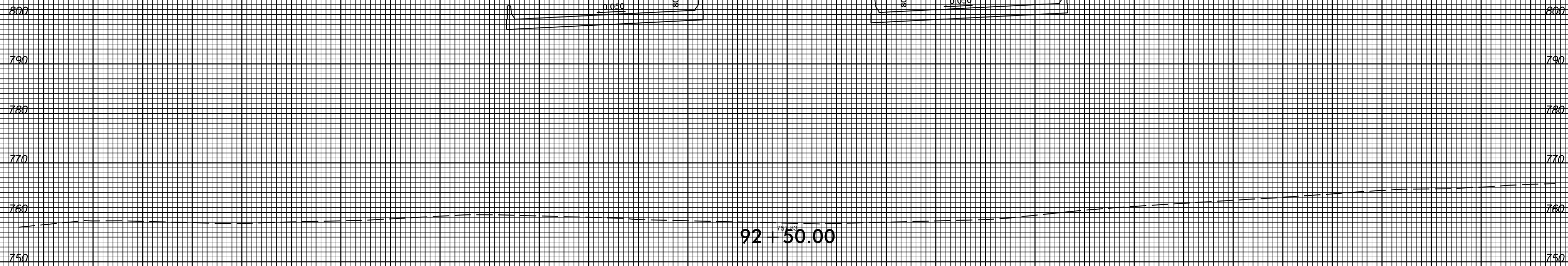
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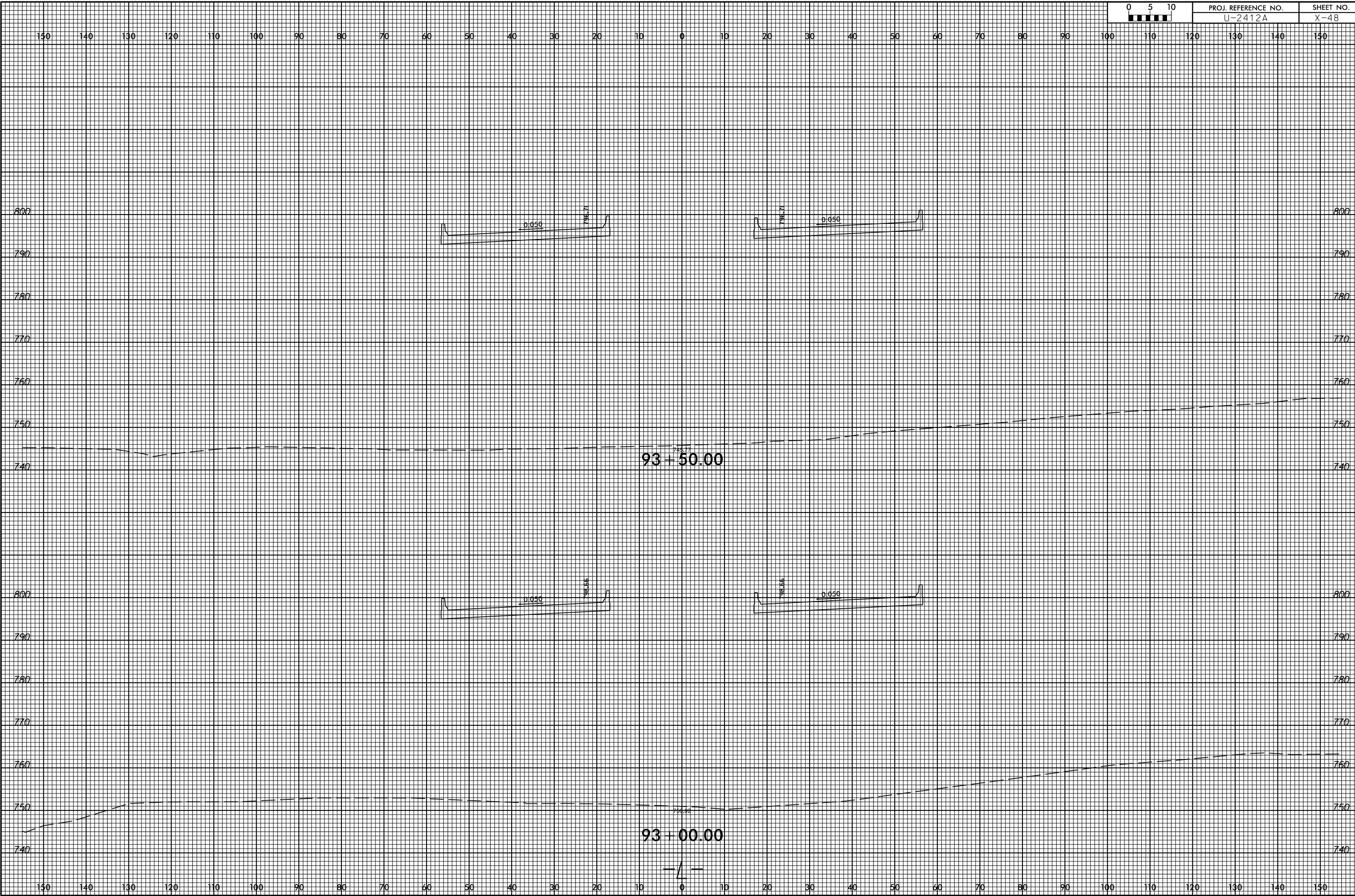
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780 780

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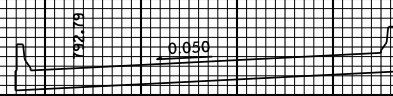
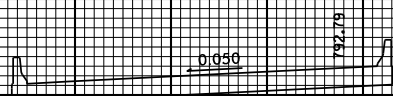
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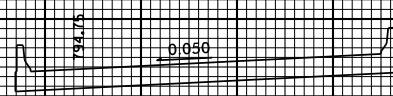
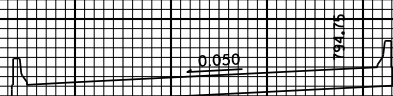
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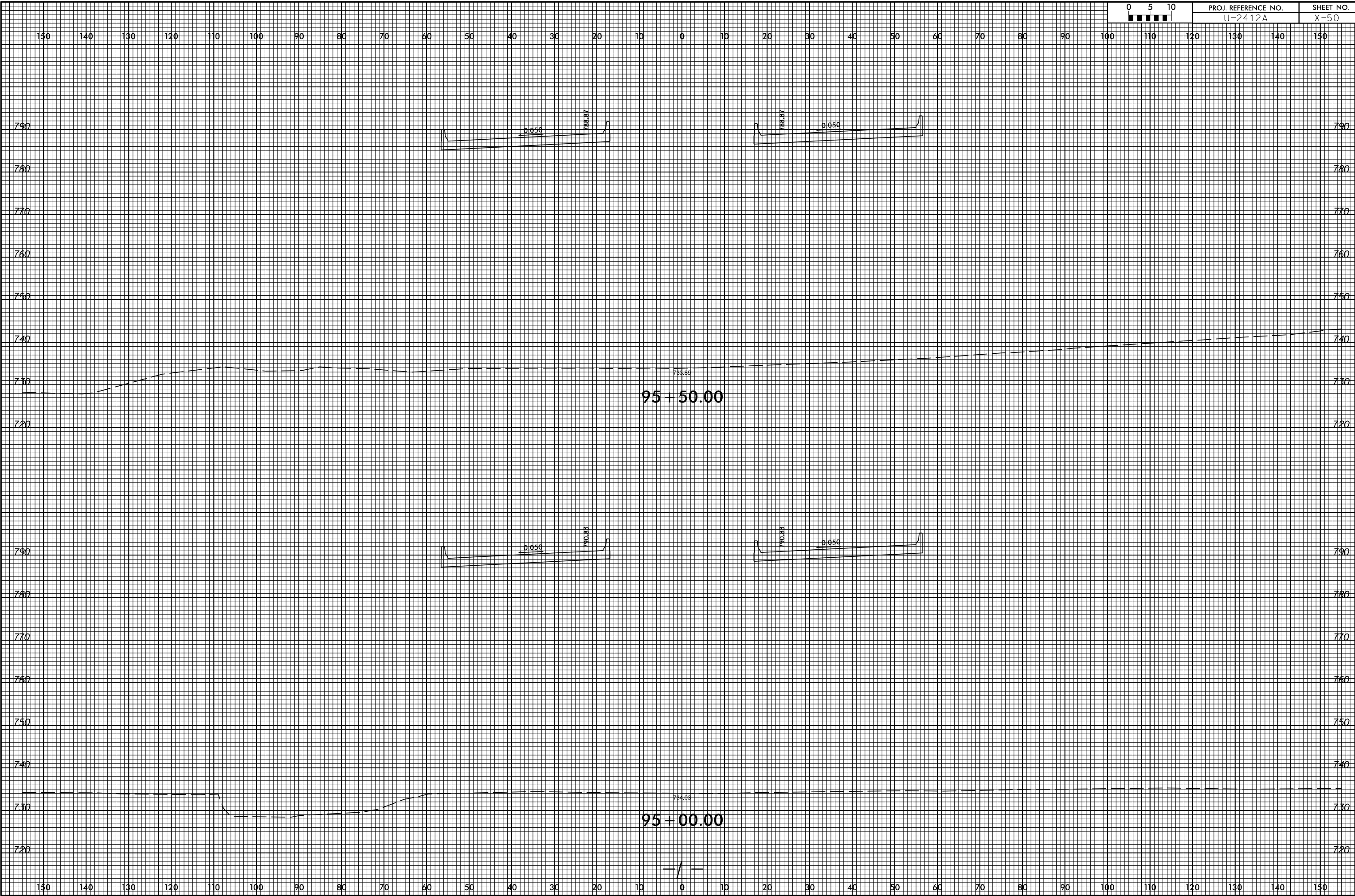
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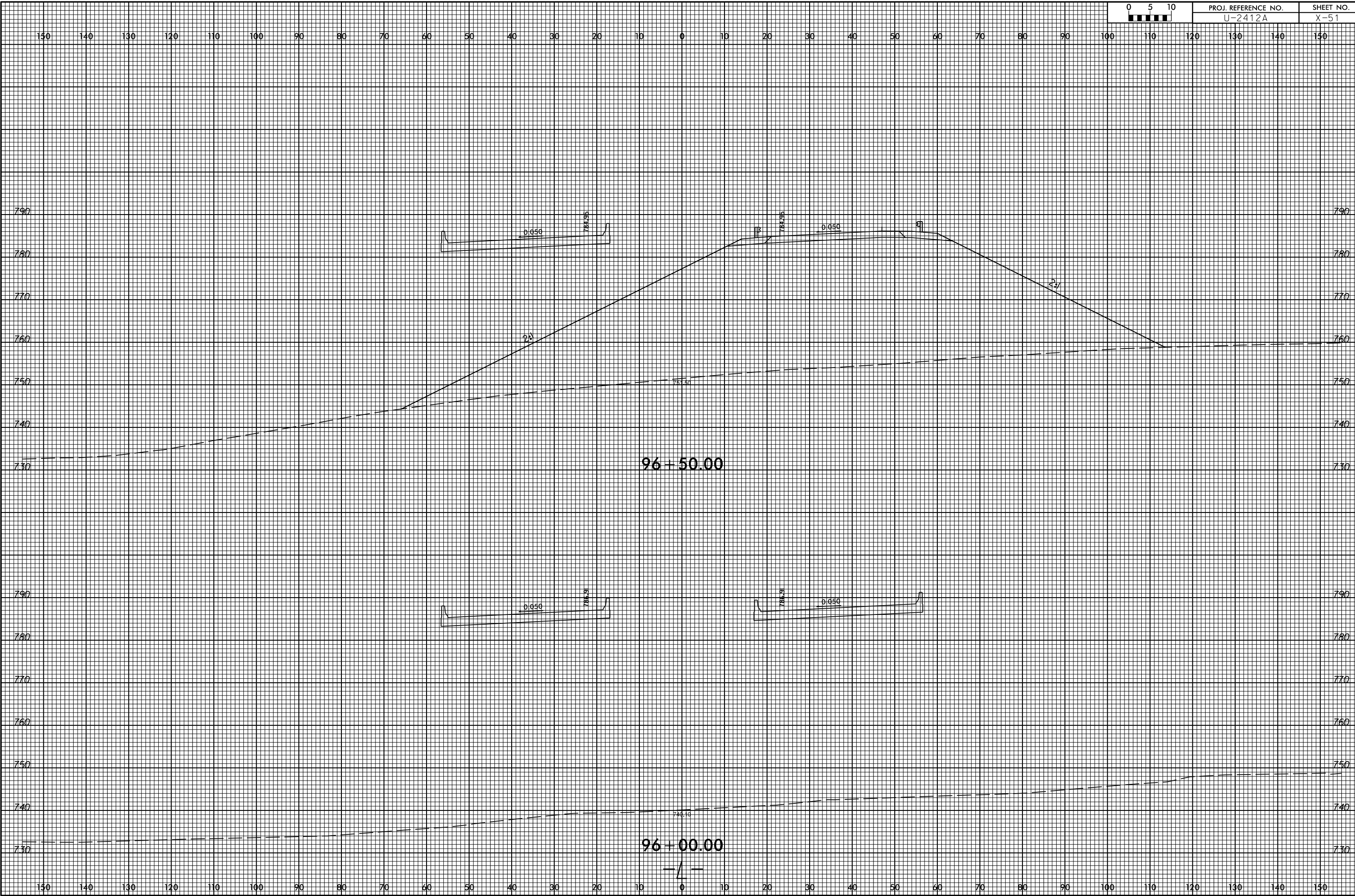
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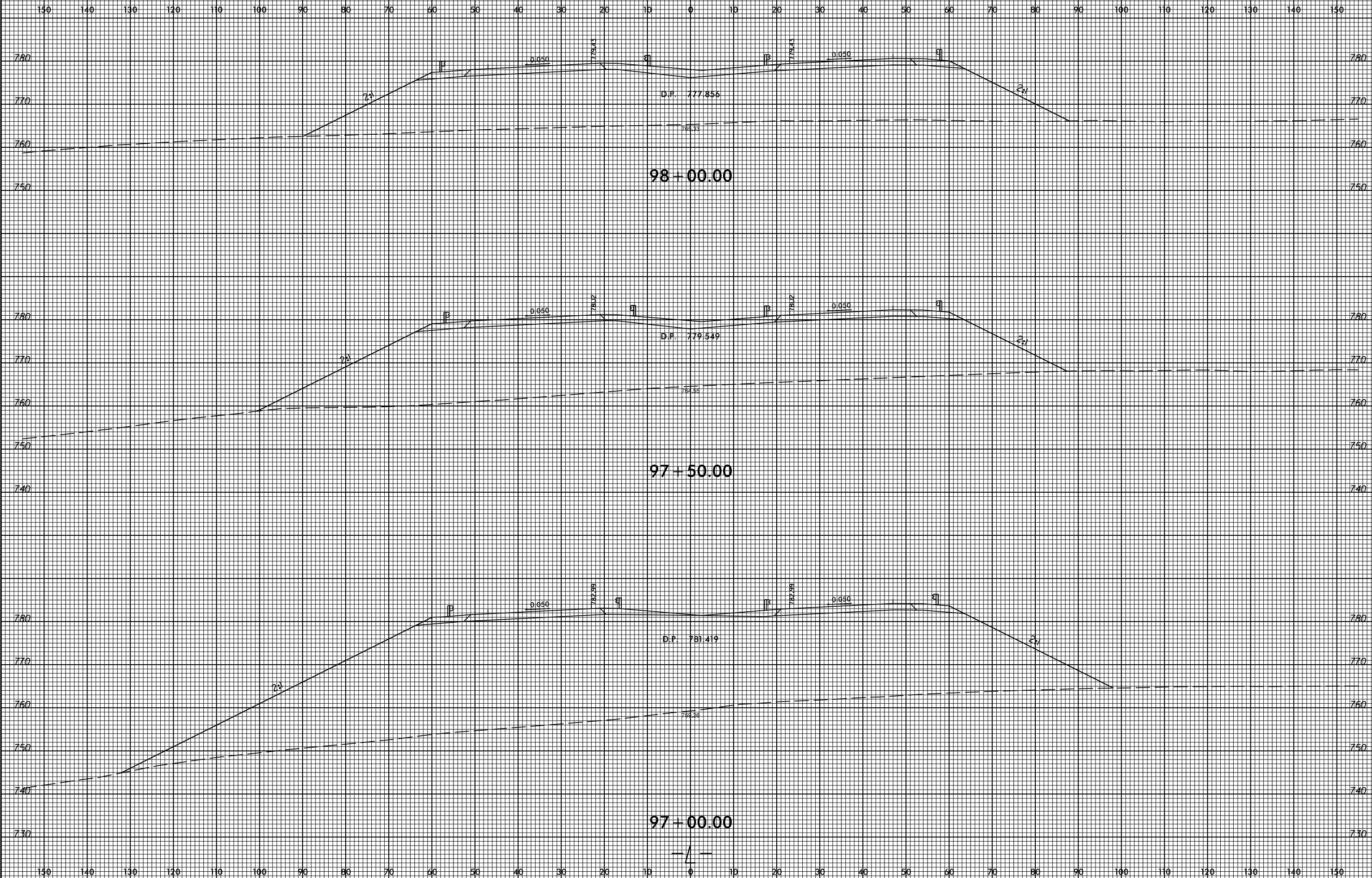


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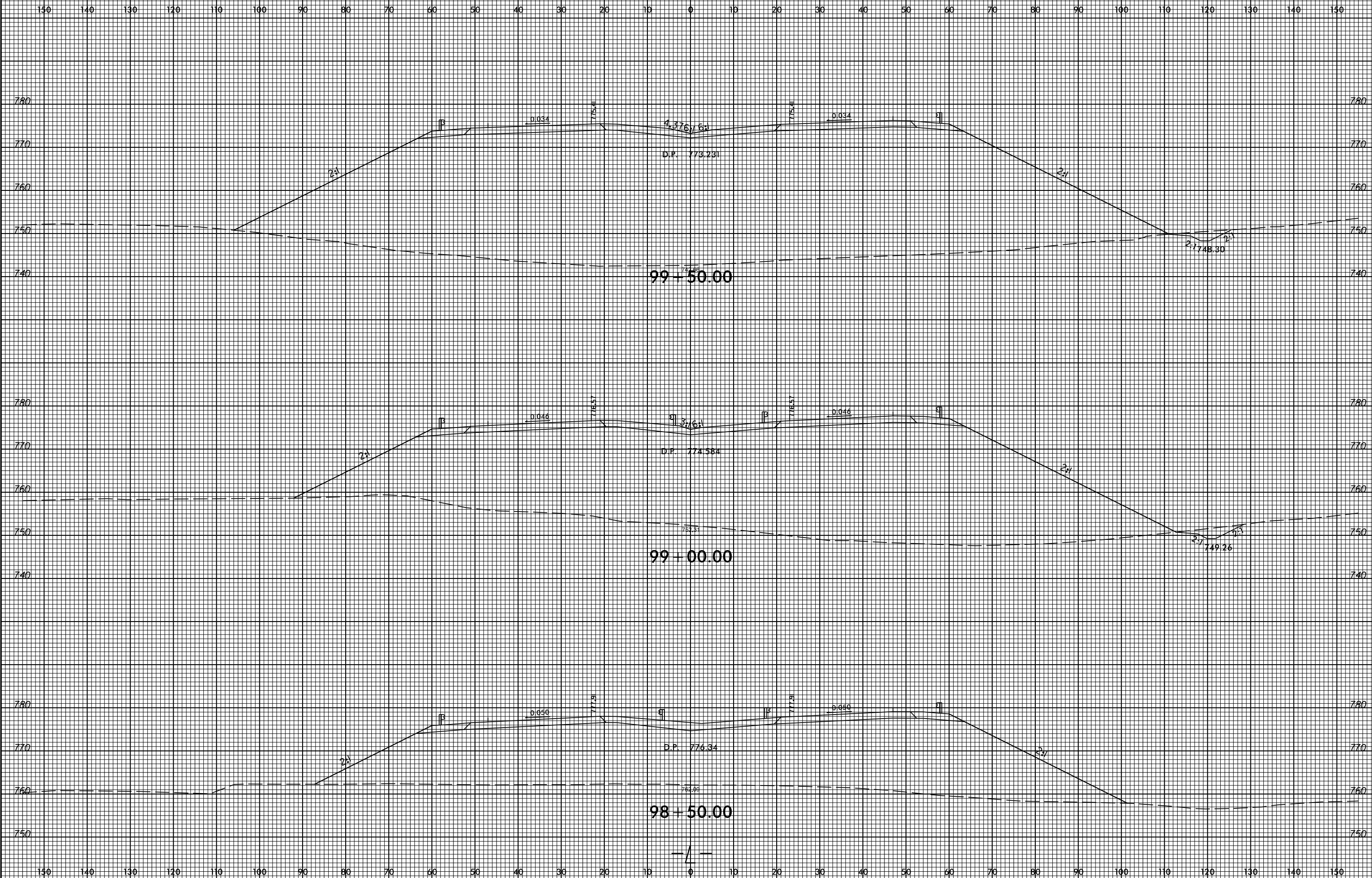


8/23/99

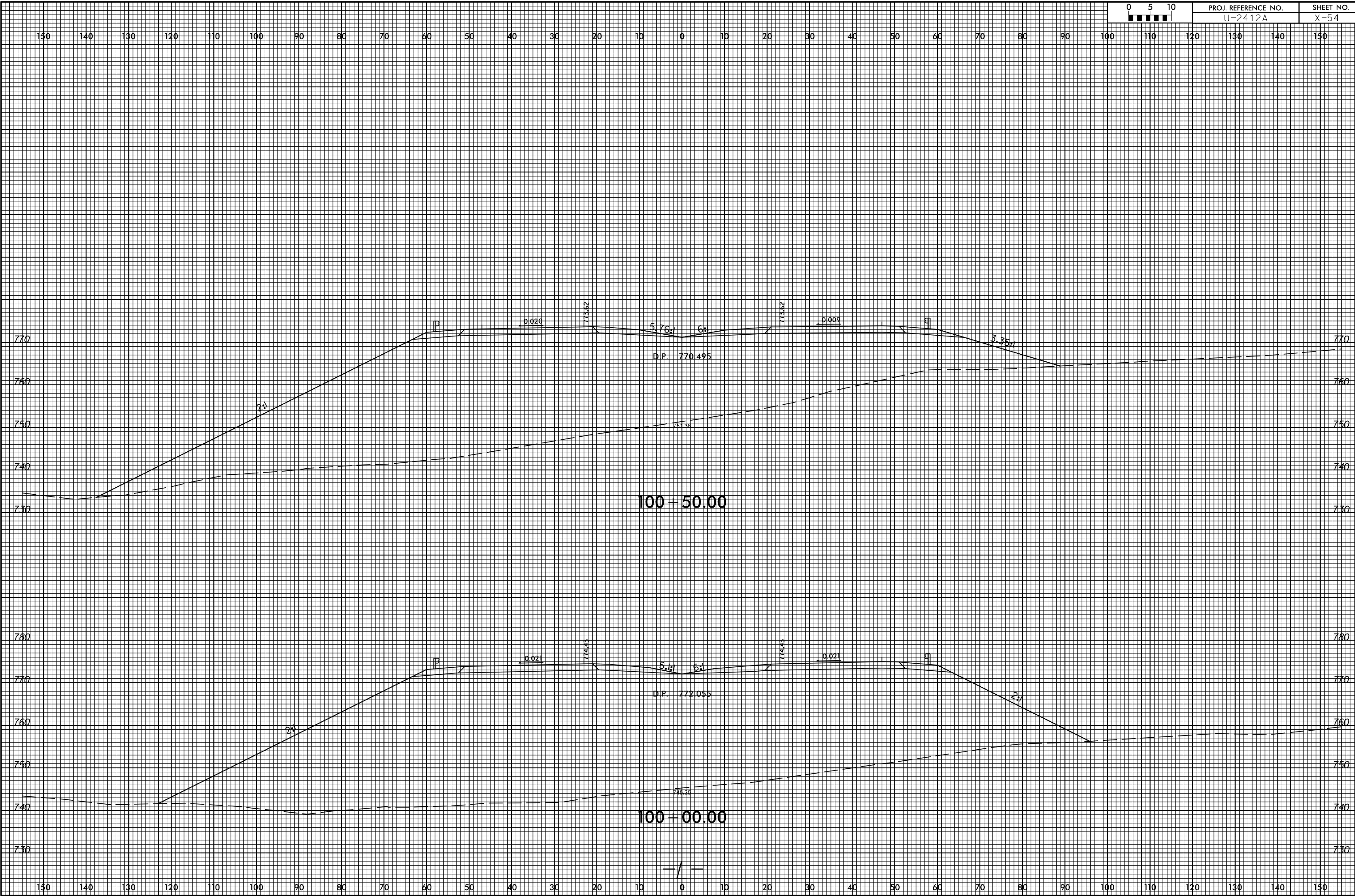


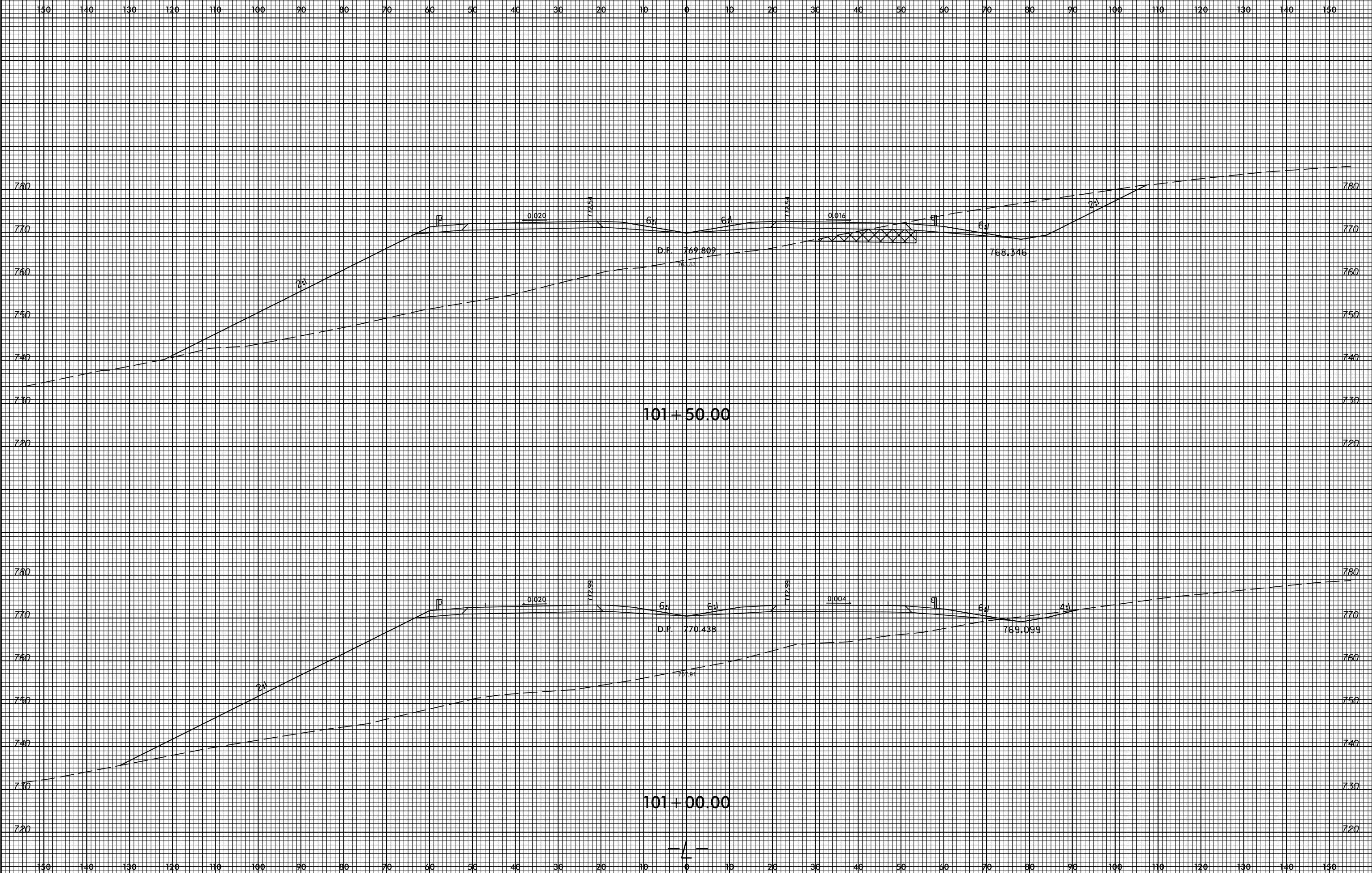
PROJ. REFERENCE NO.  
U-2412A

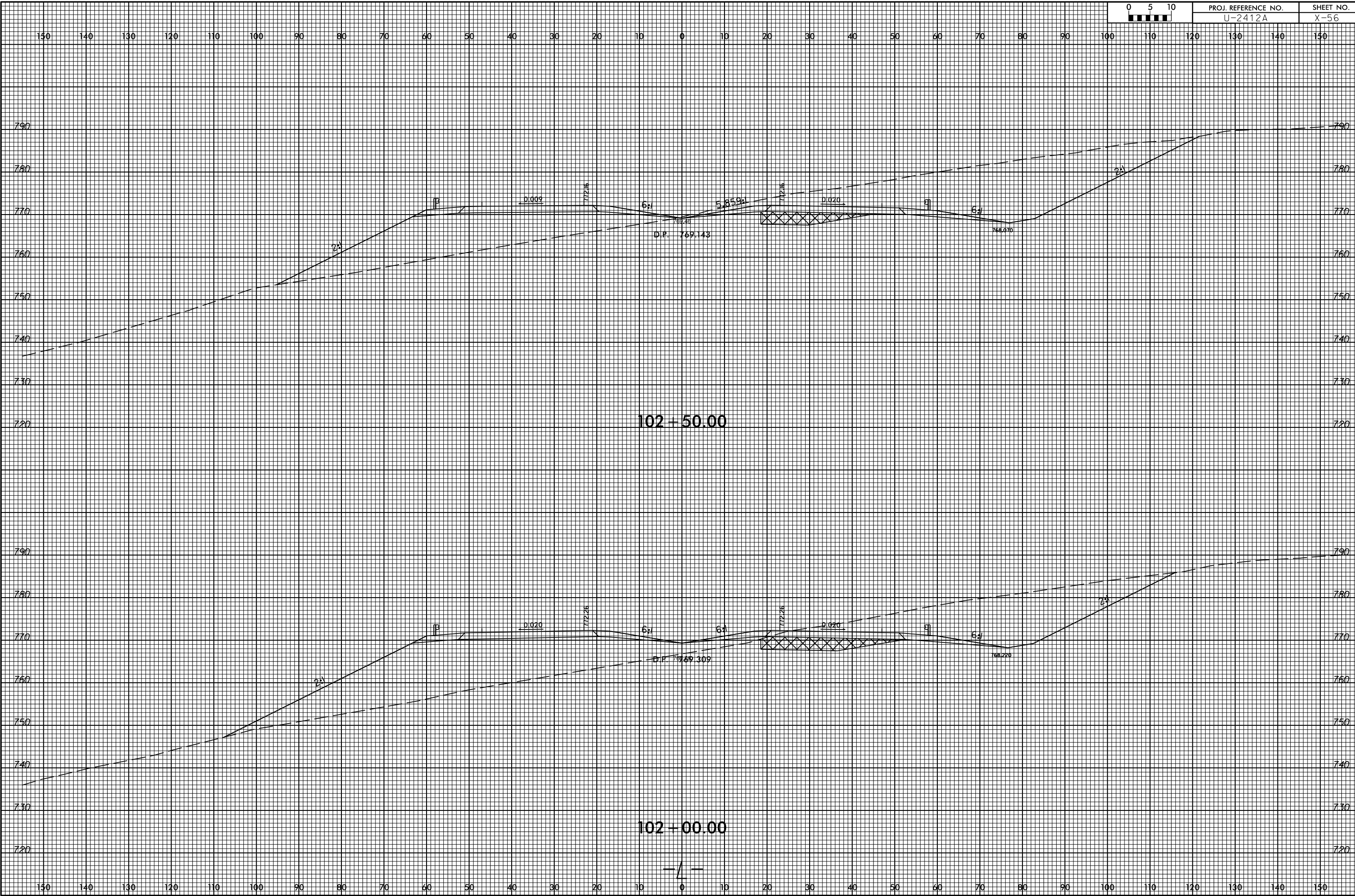
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X-53



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7/13/99





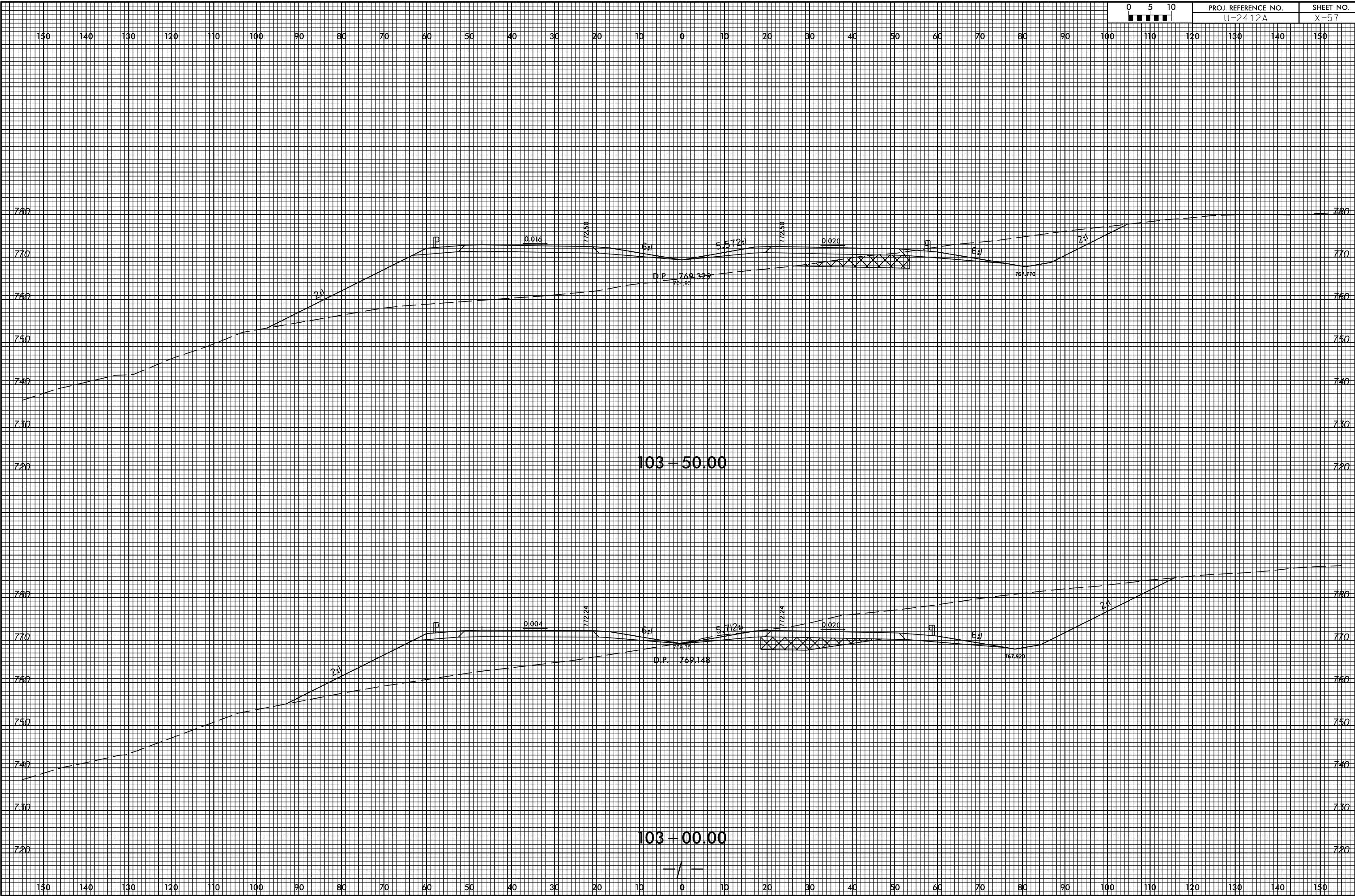


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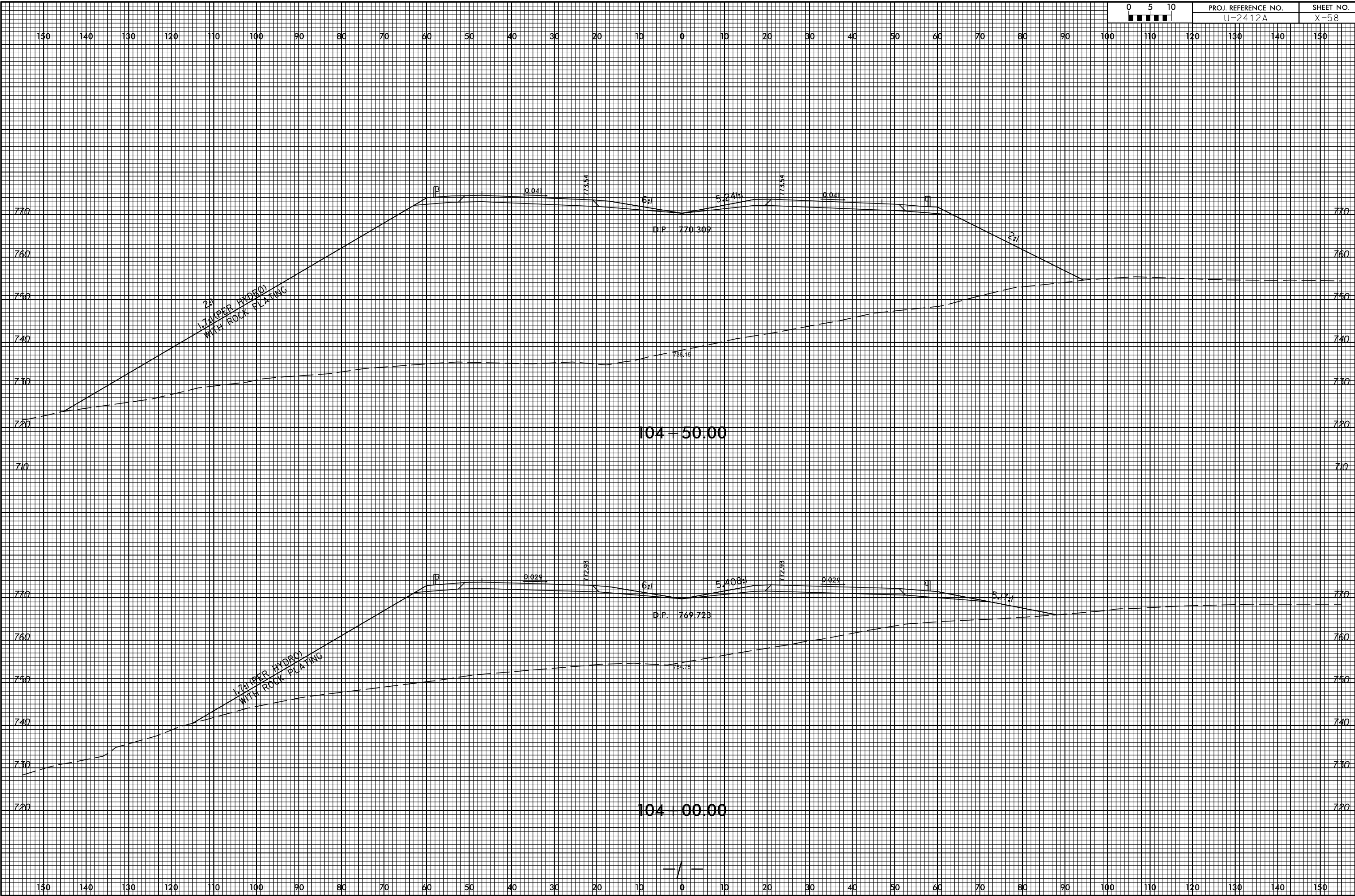


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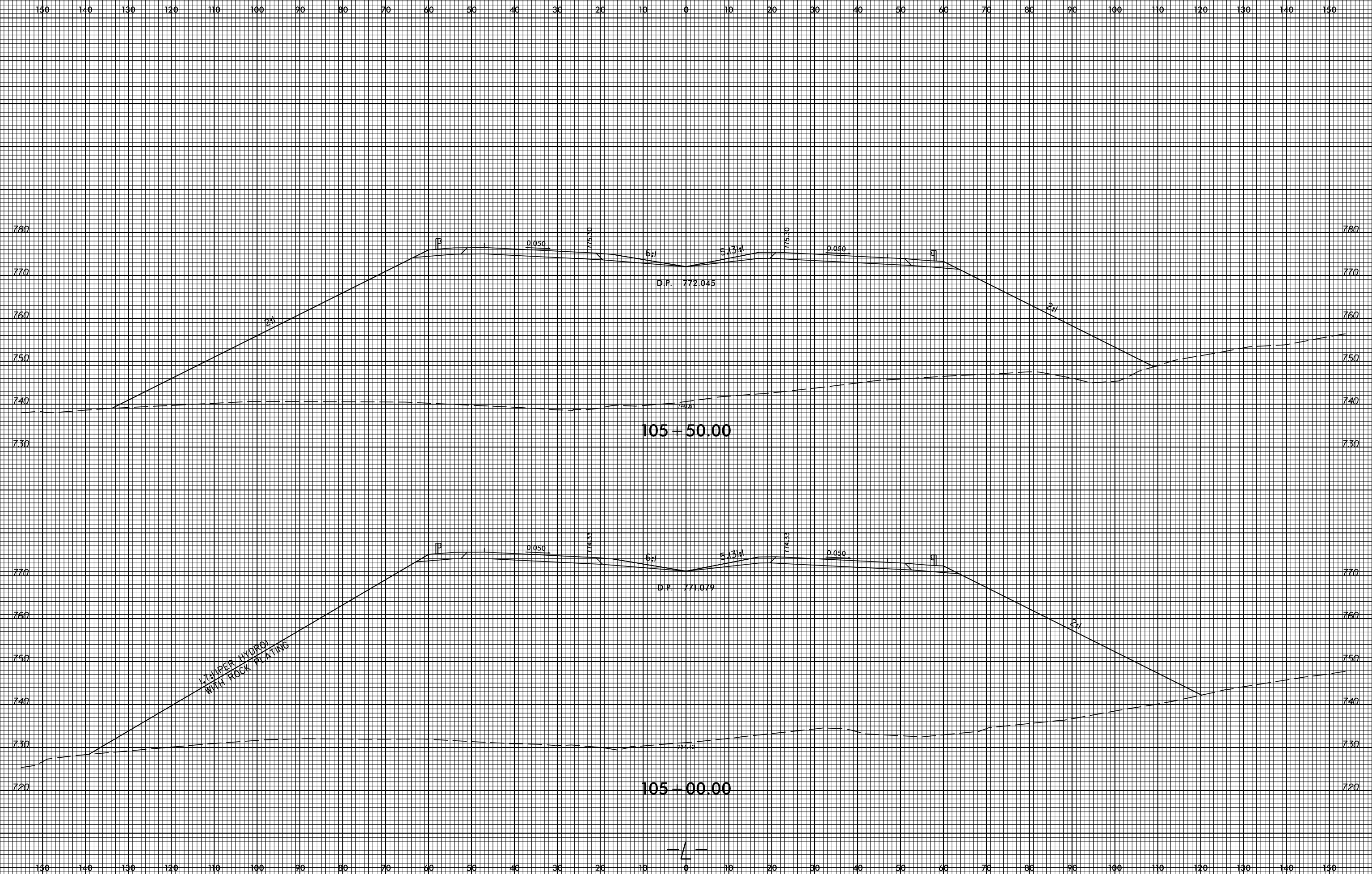
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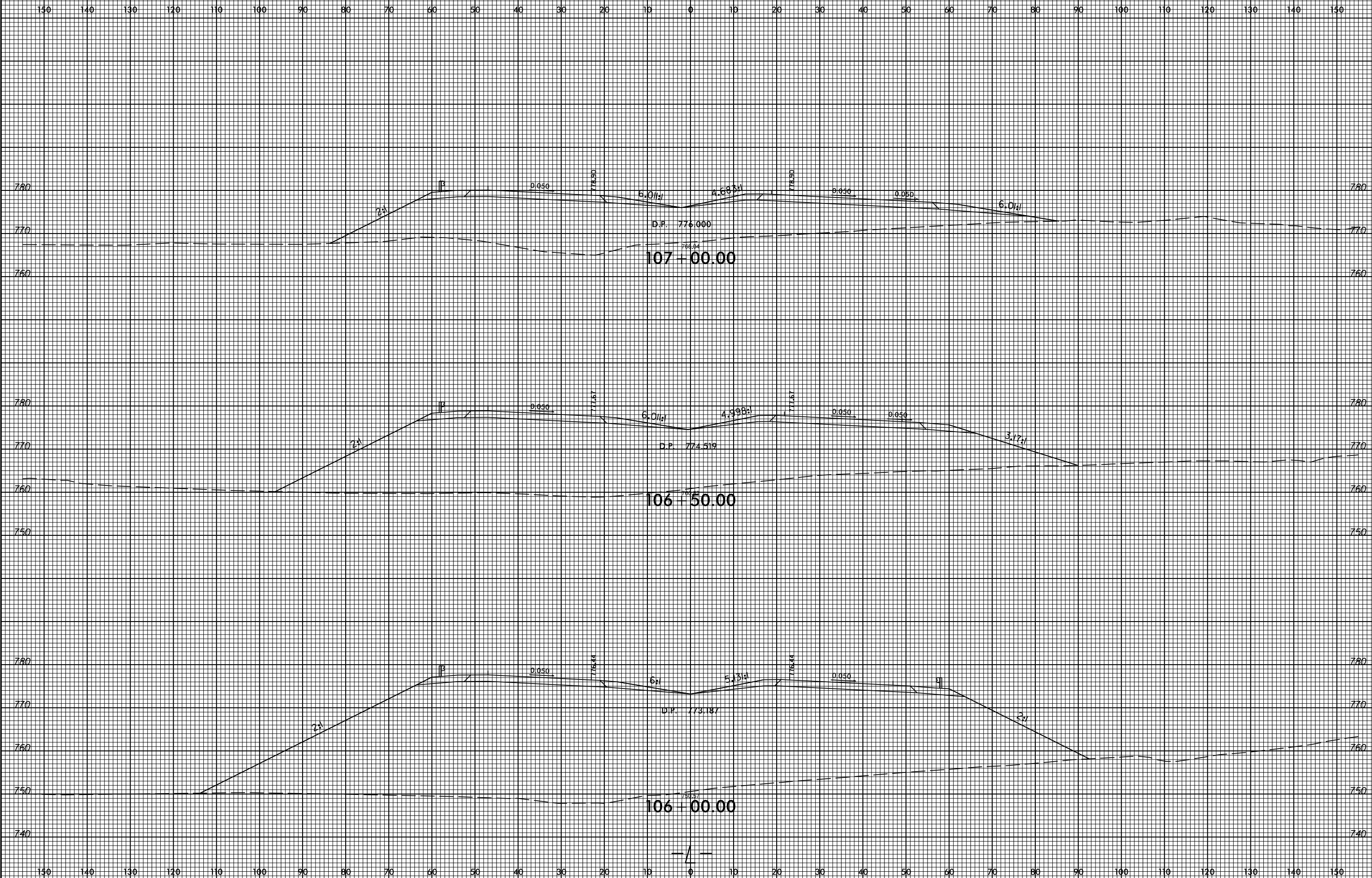


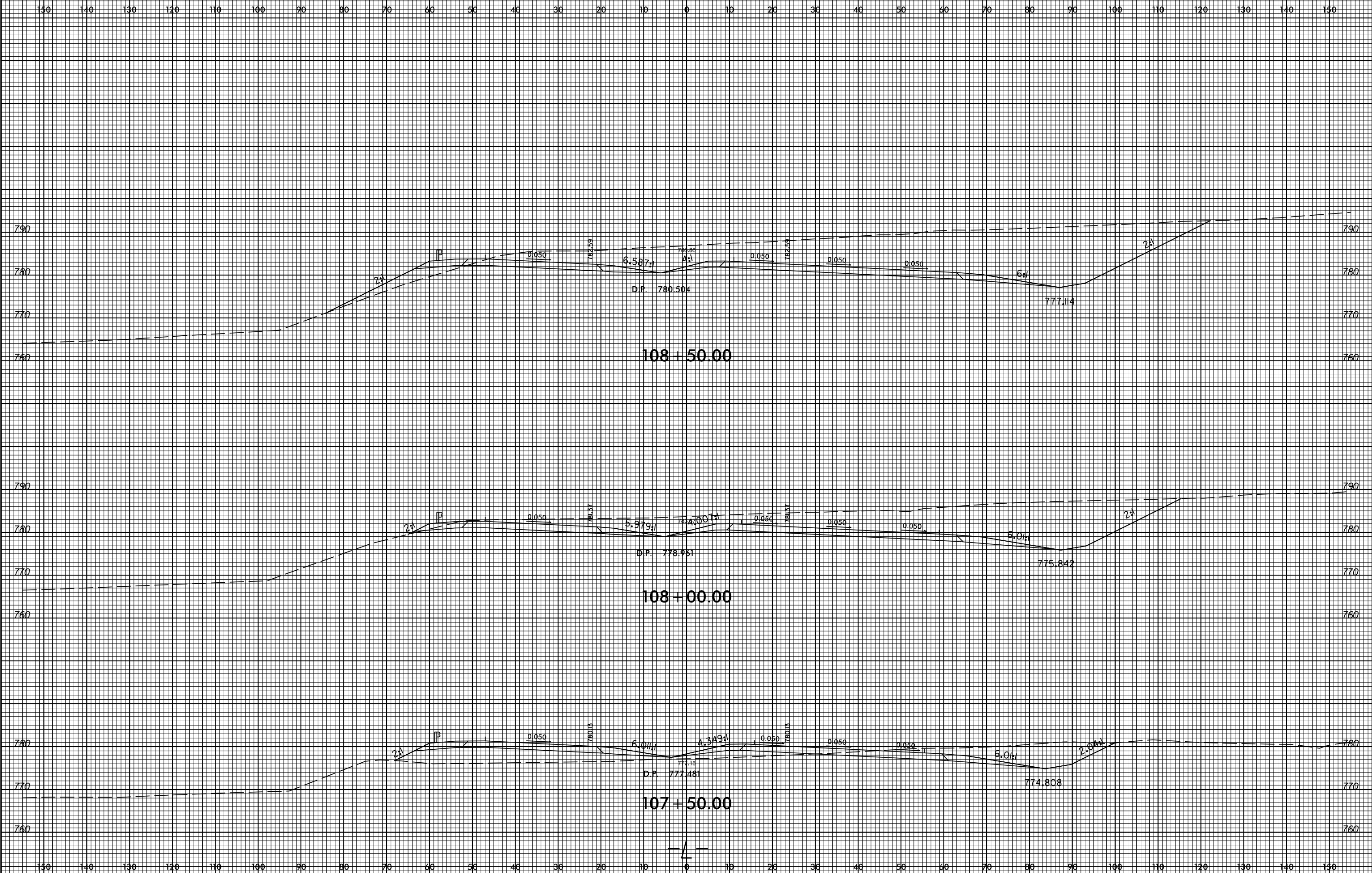
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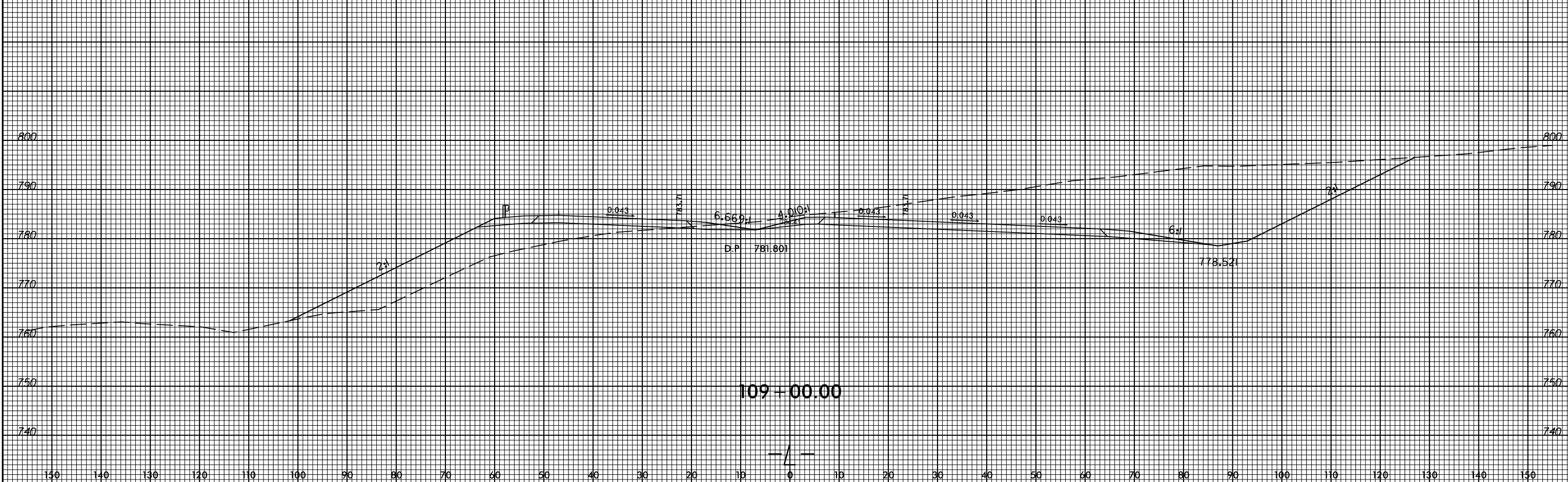
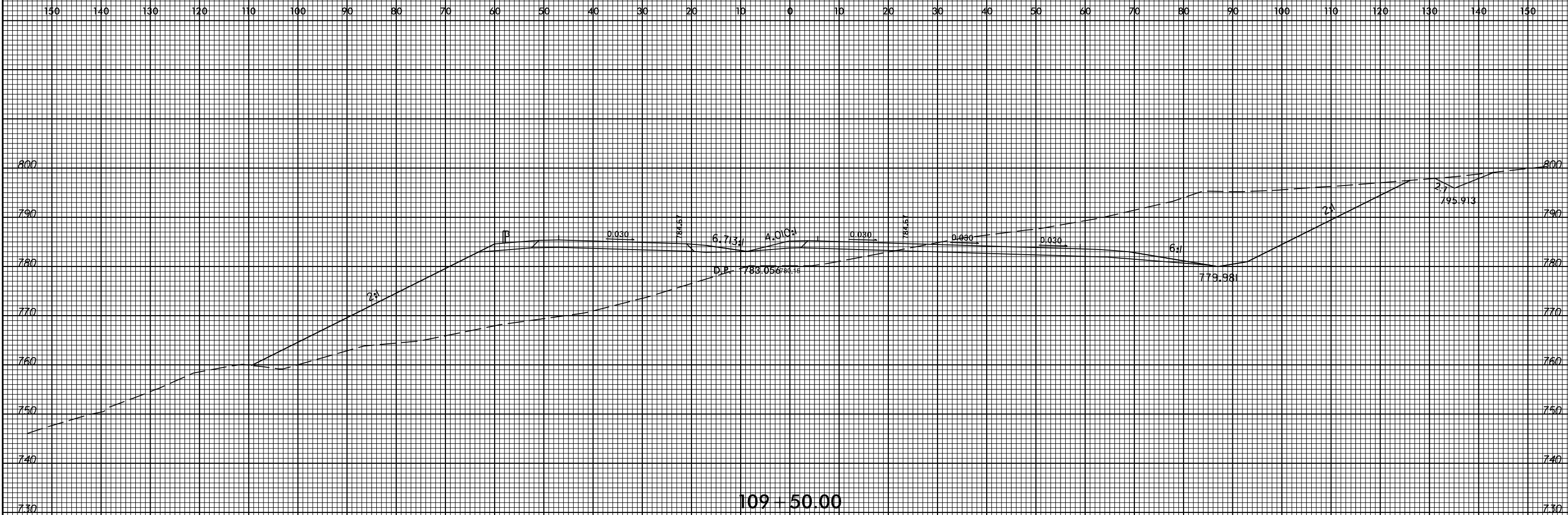


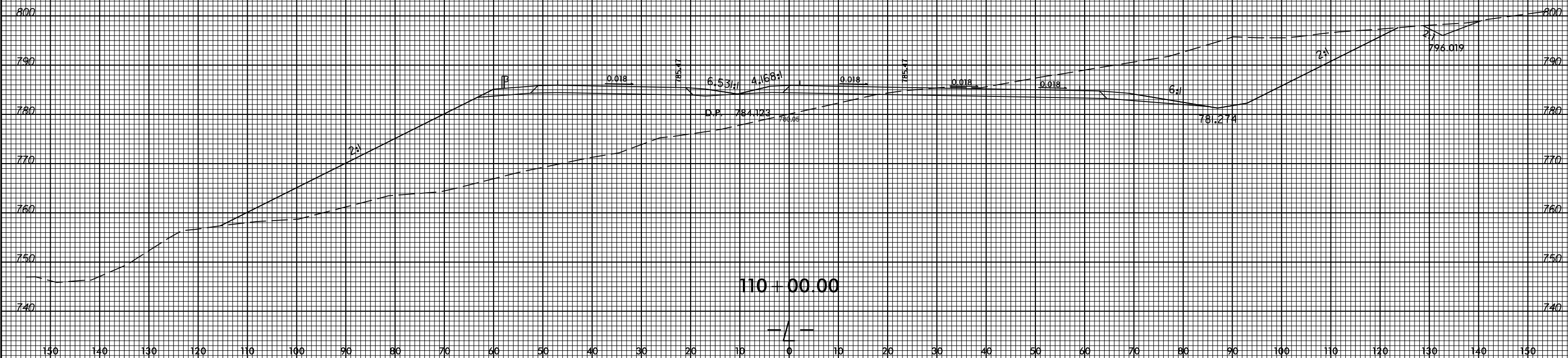
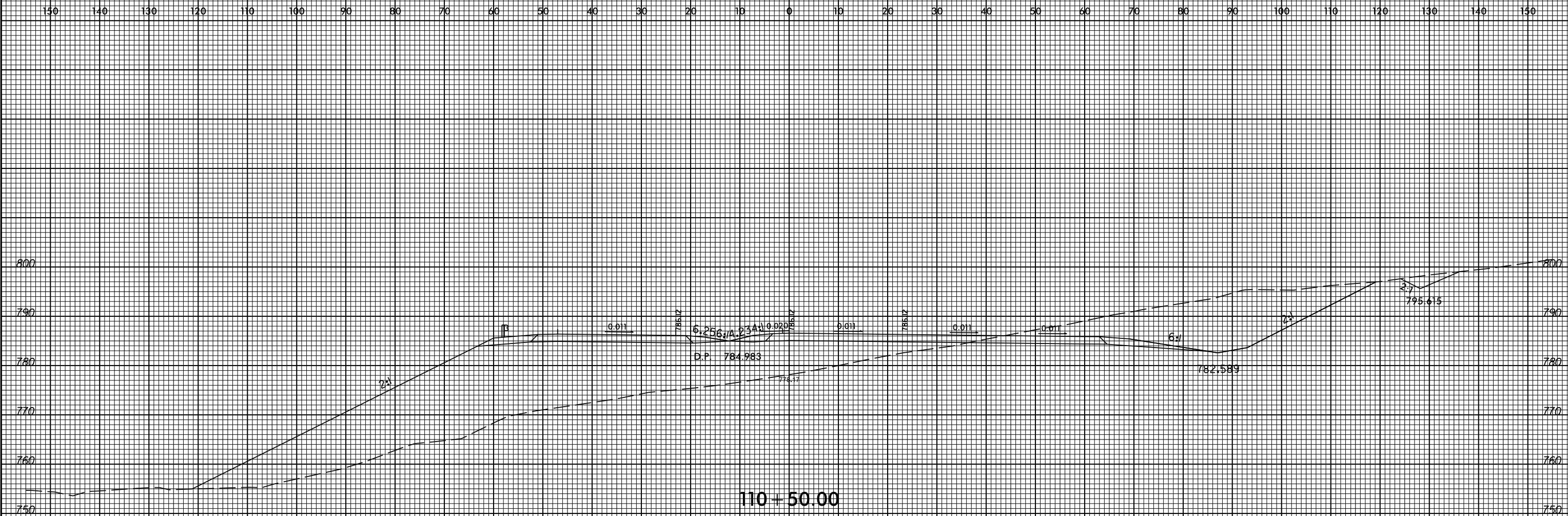


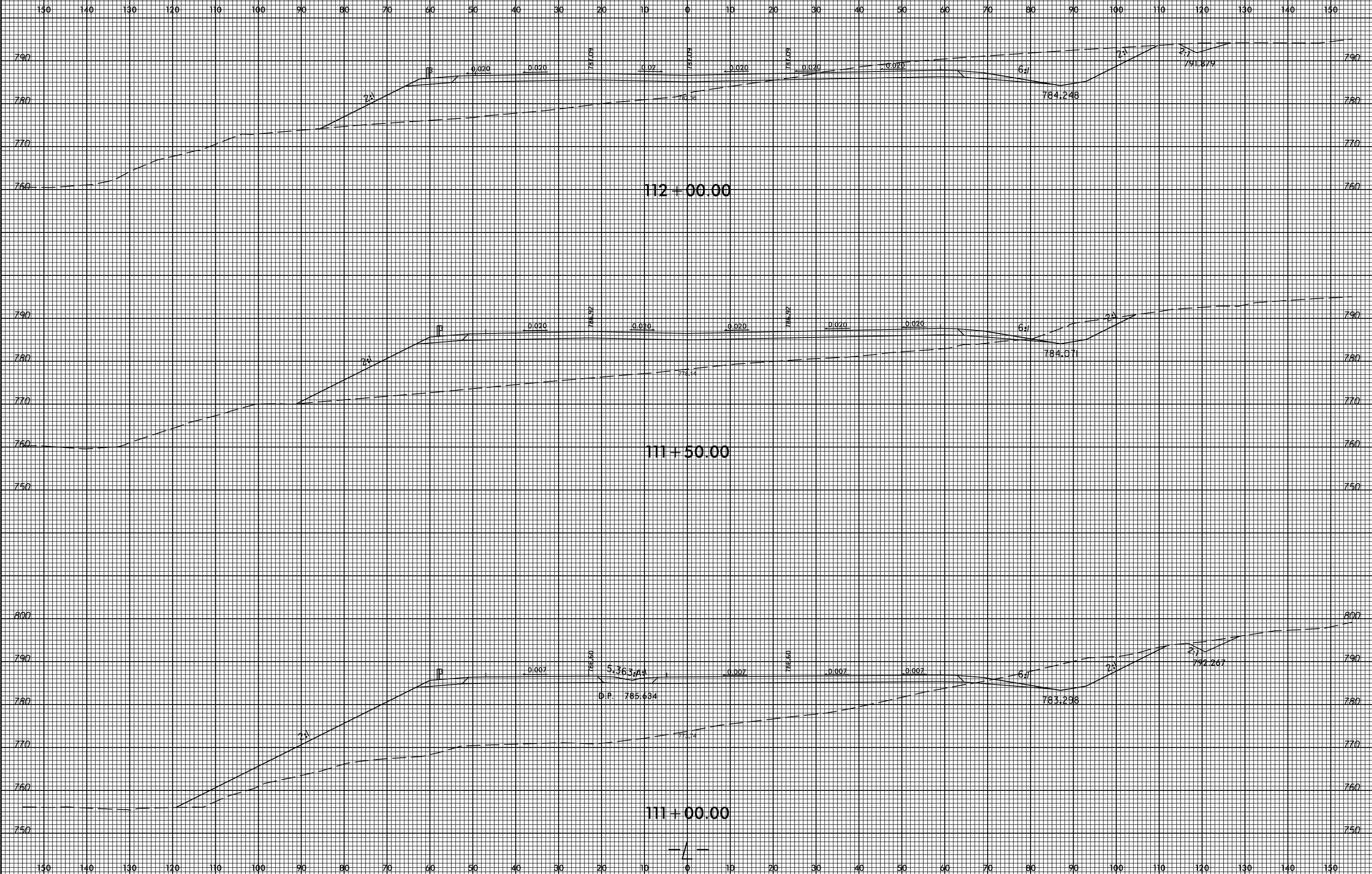


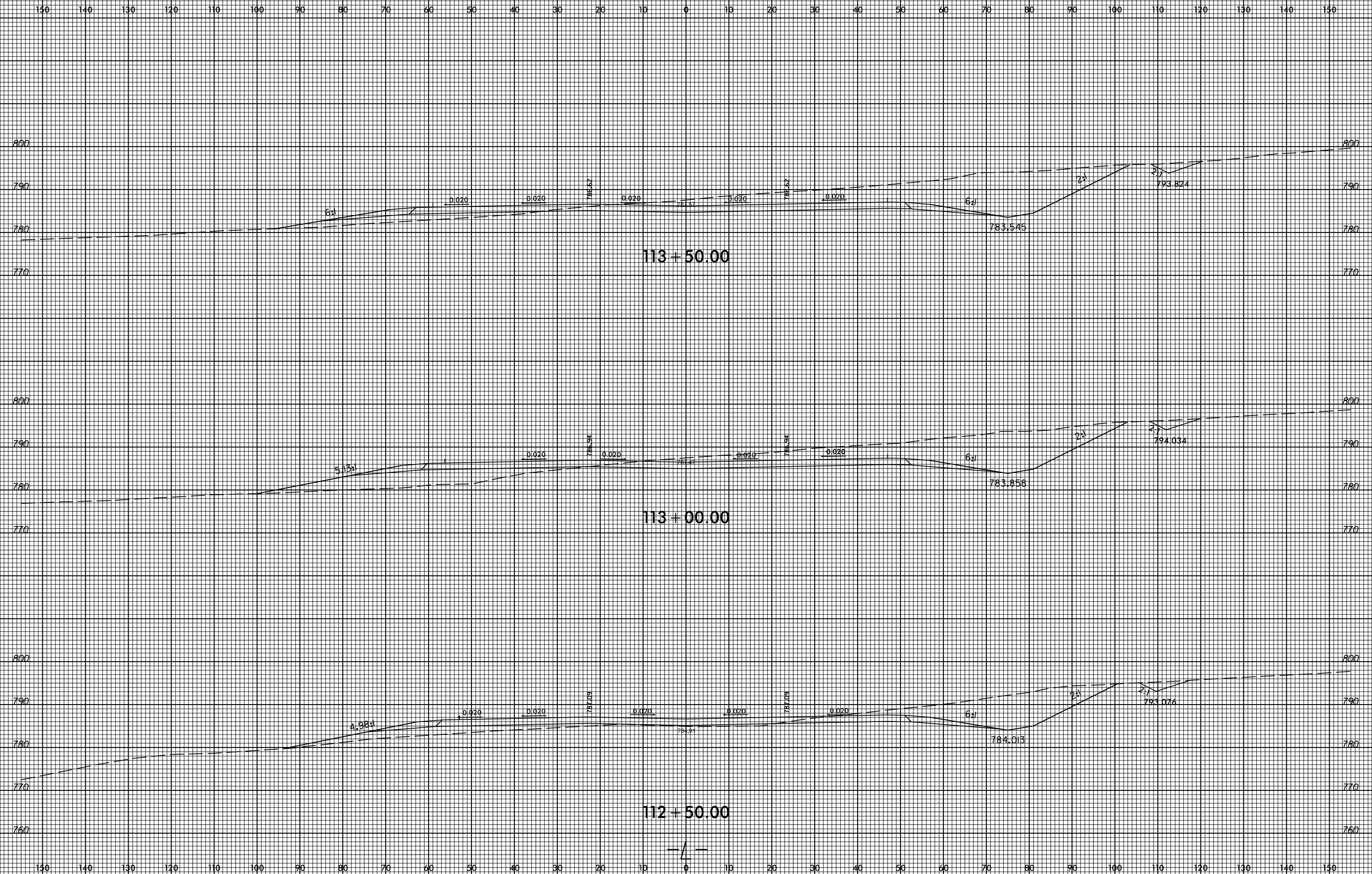




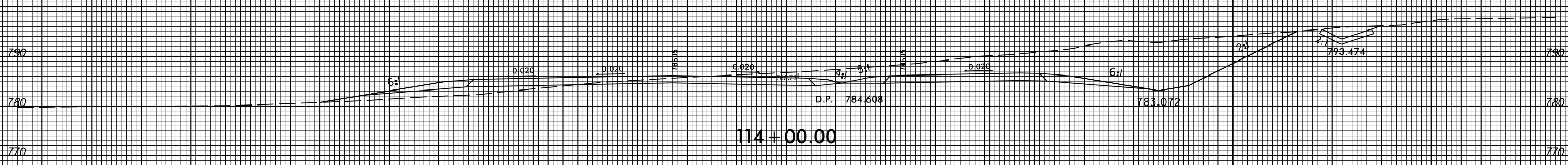
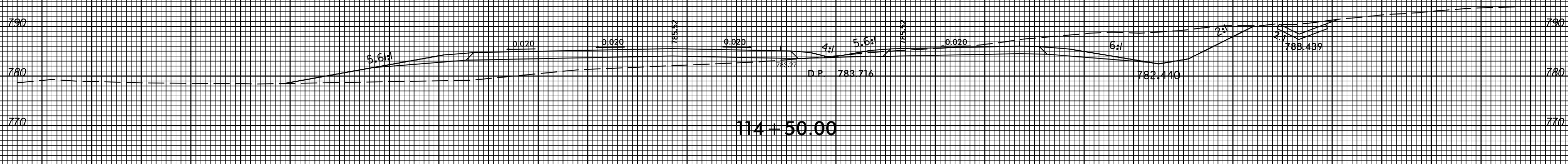
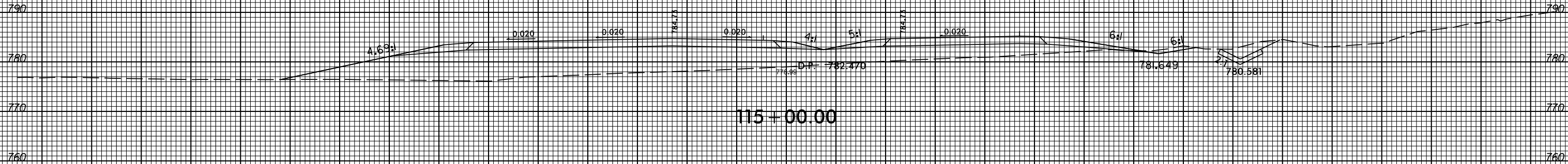






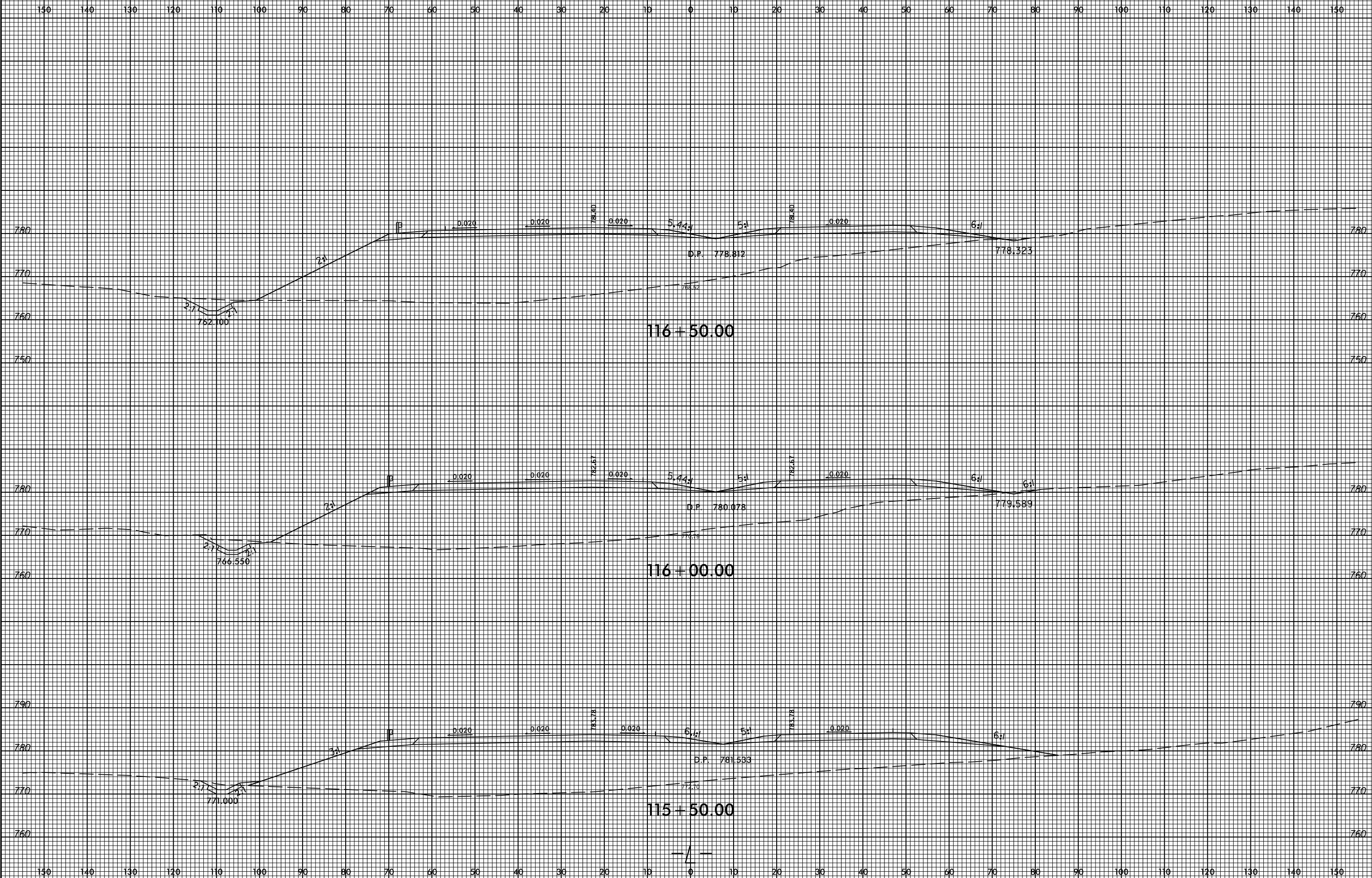


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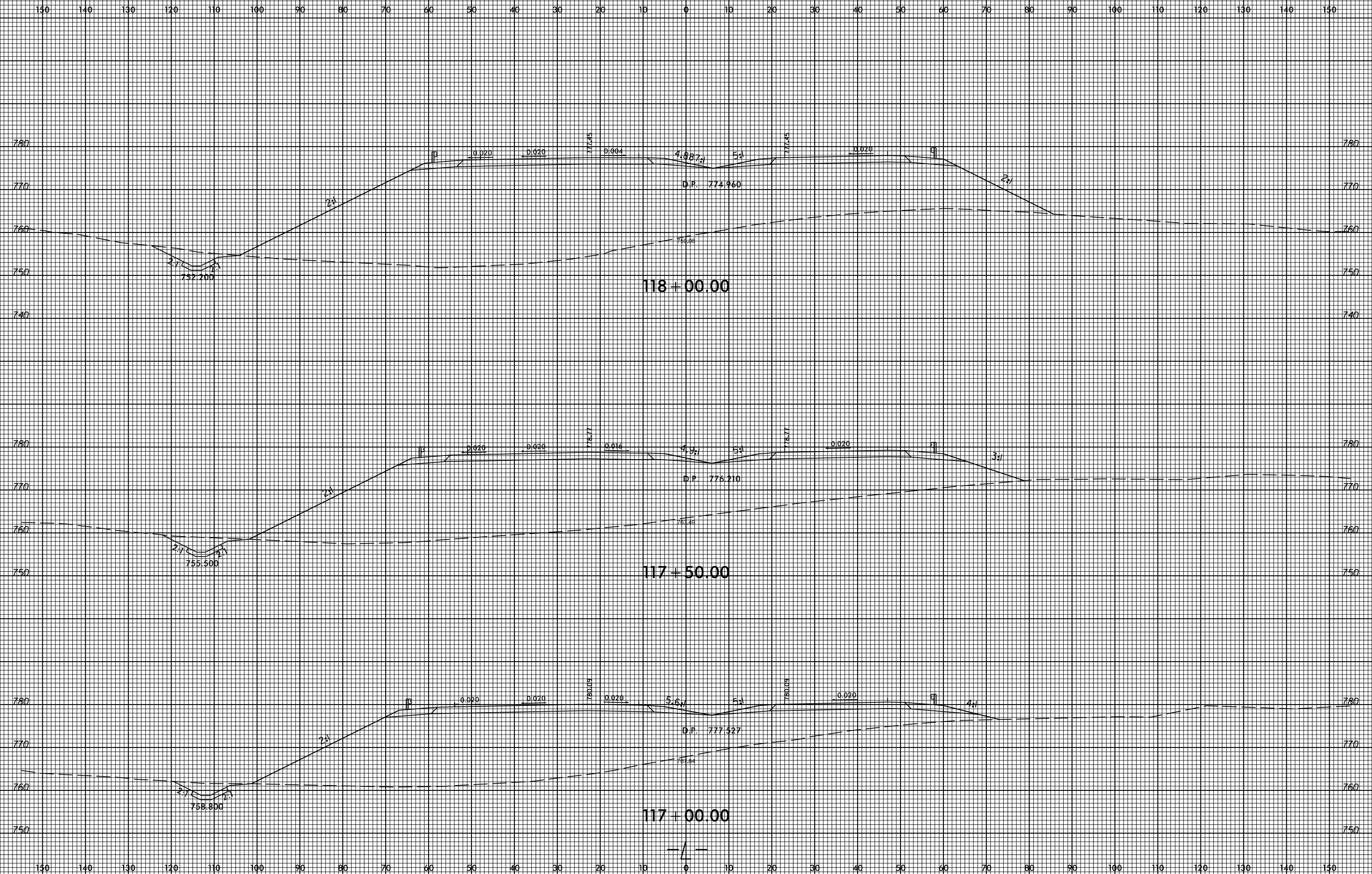


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-68



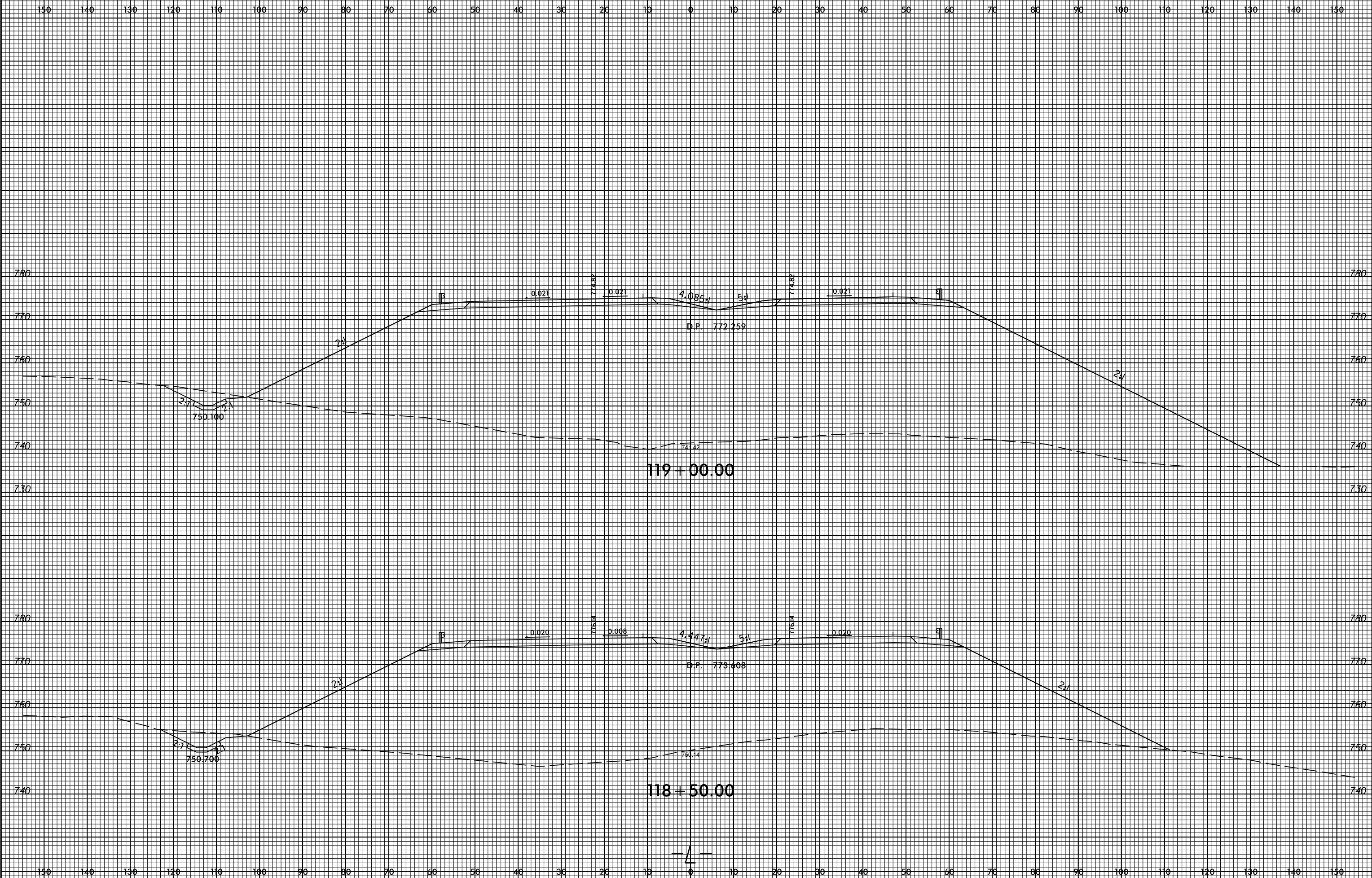
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8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-69



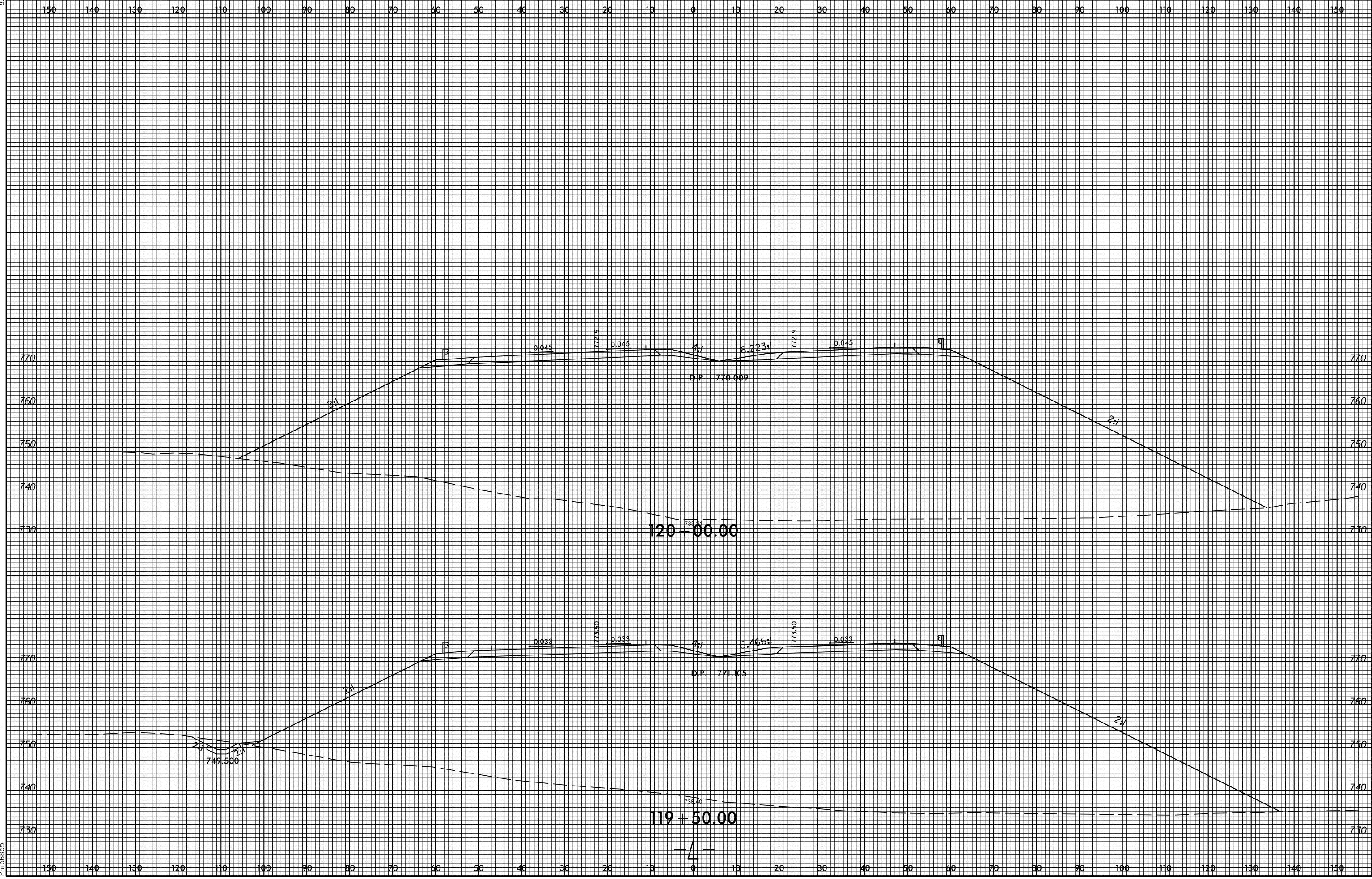
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8/23/99

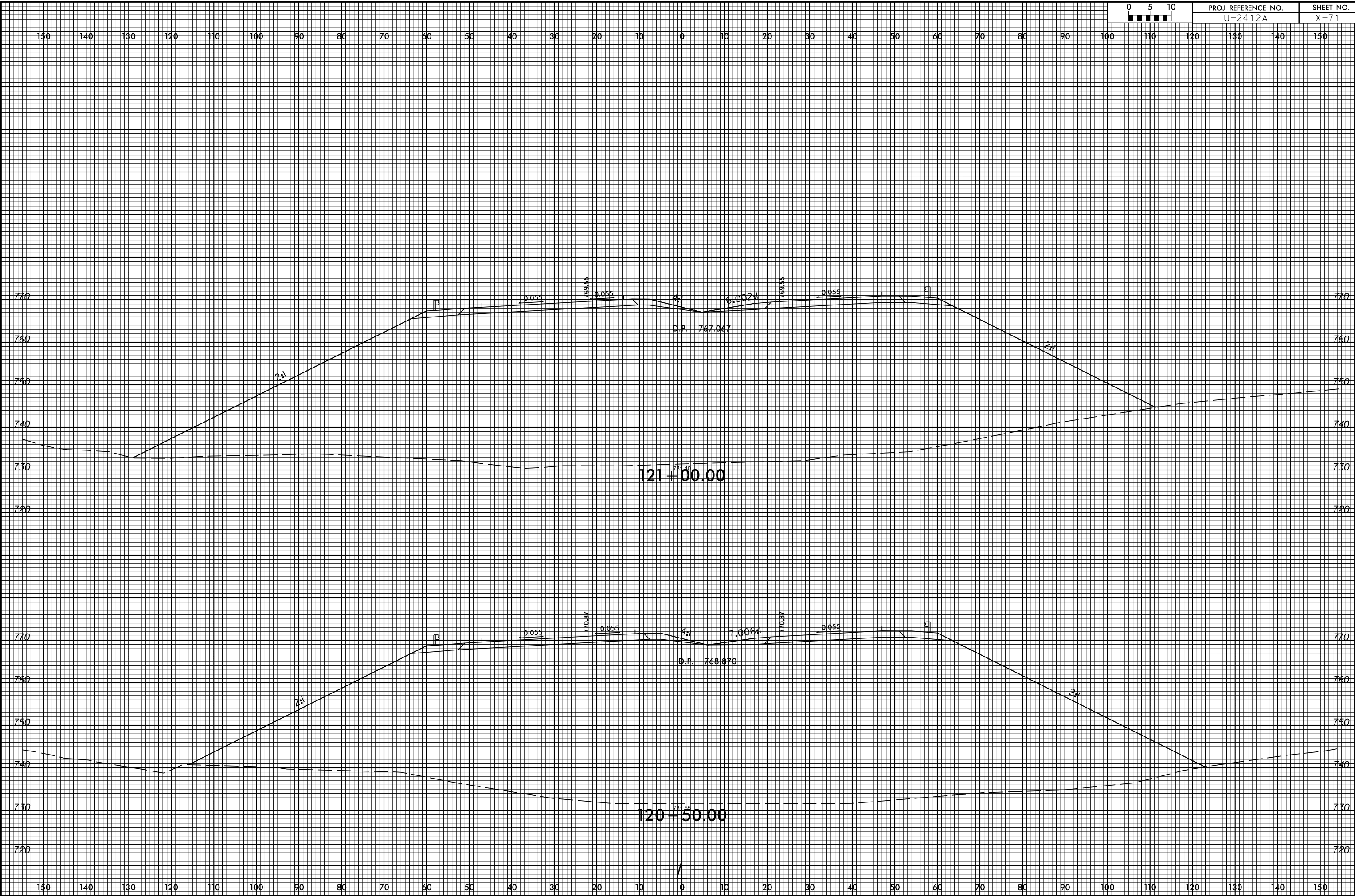


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7/13/99

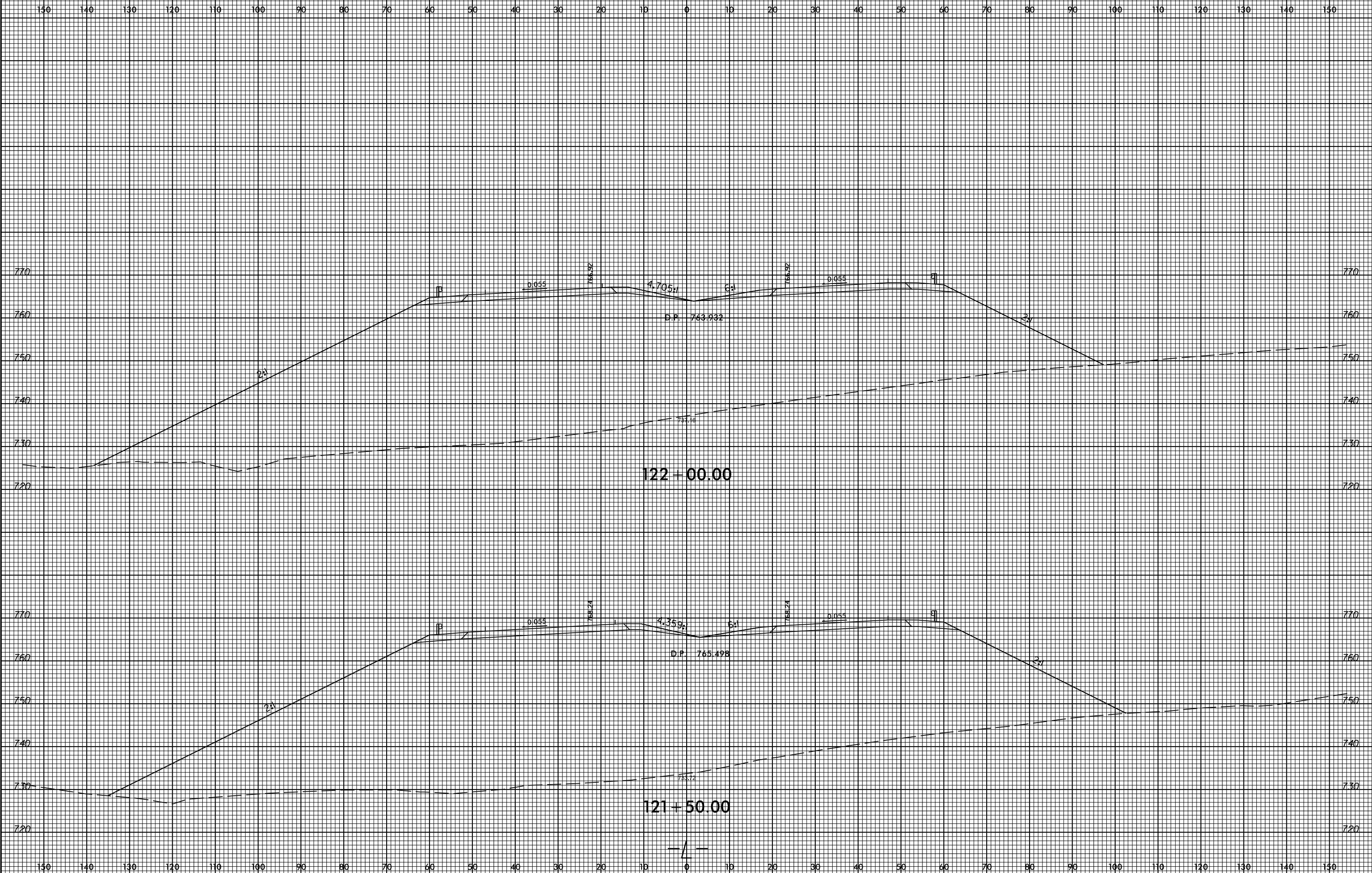


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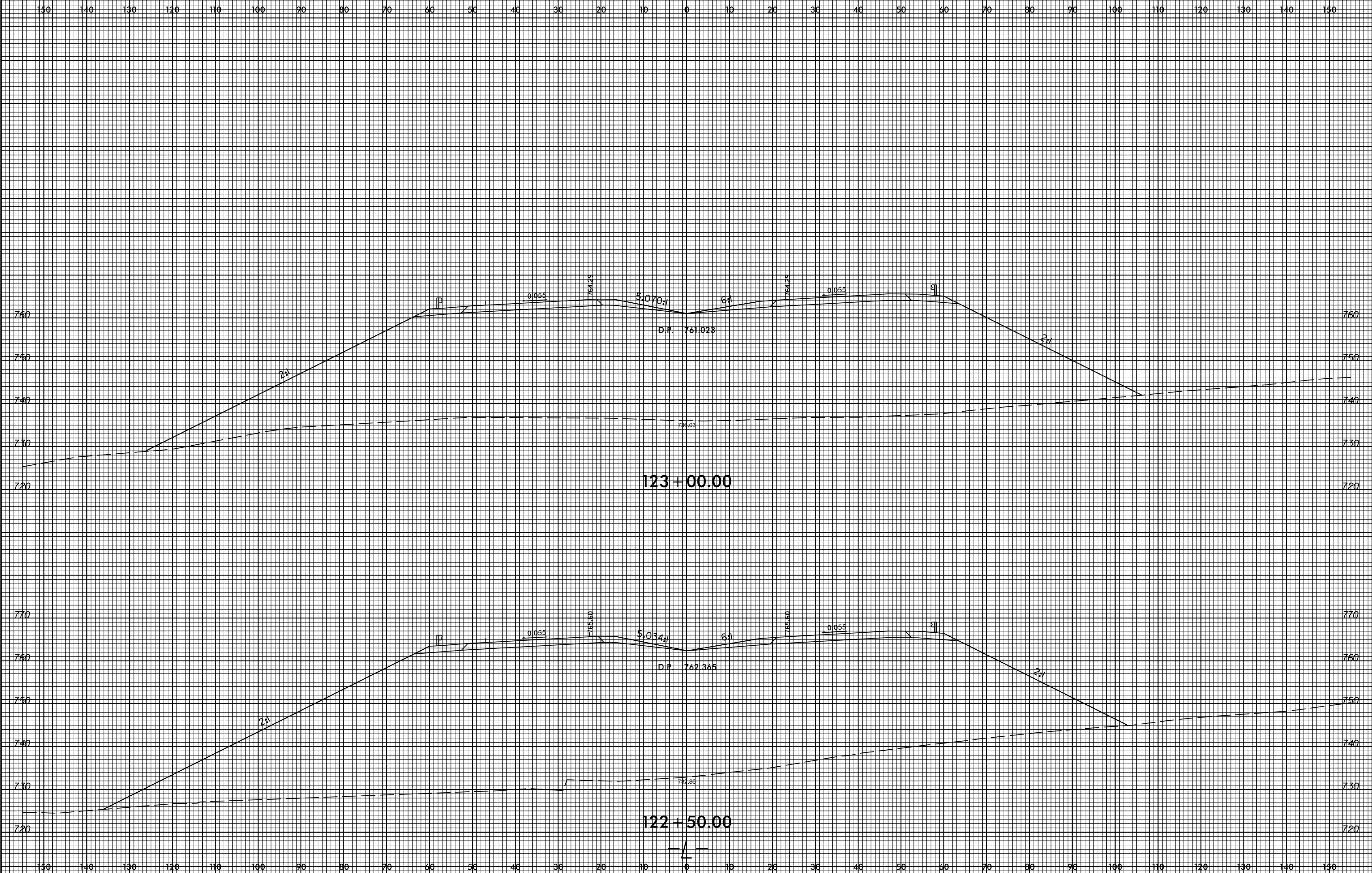


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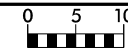
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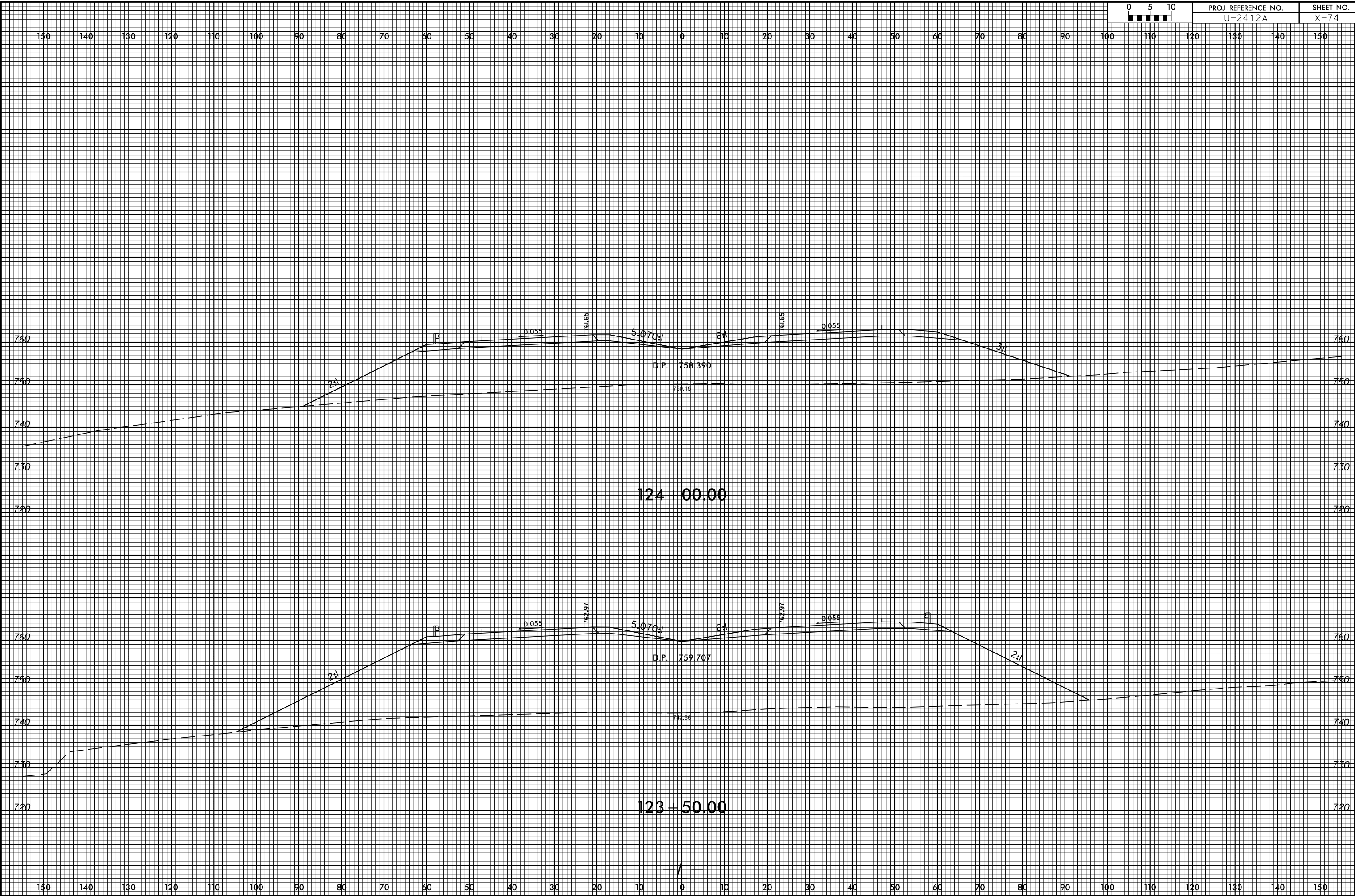


8/23/99



PROJ. REFERENCE NO.  
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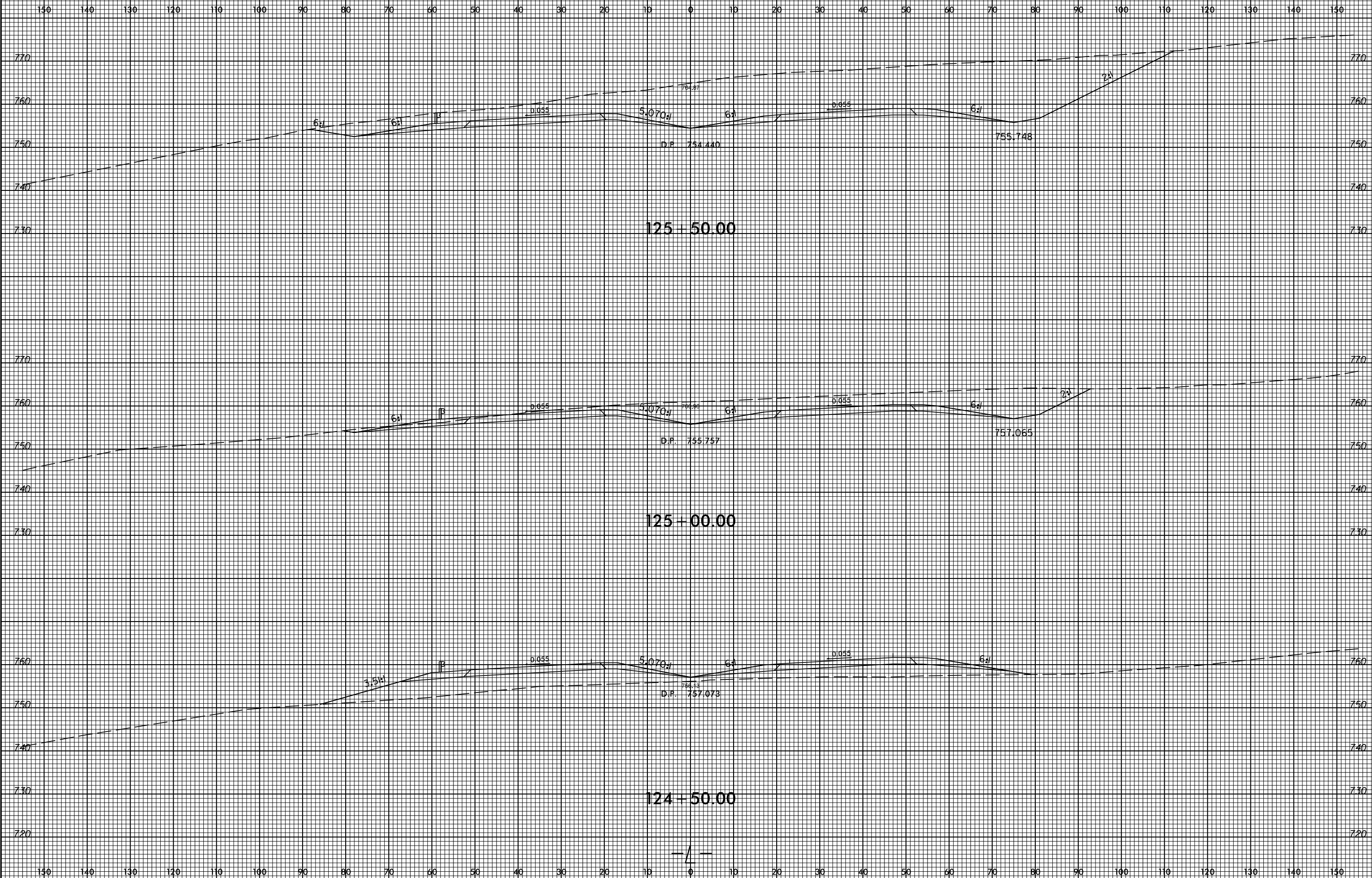
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X-74



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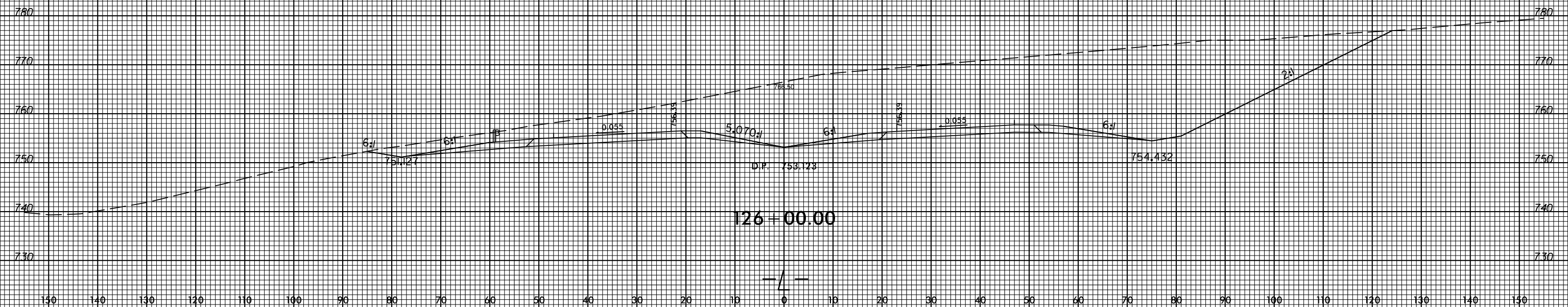
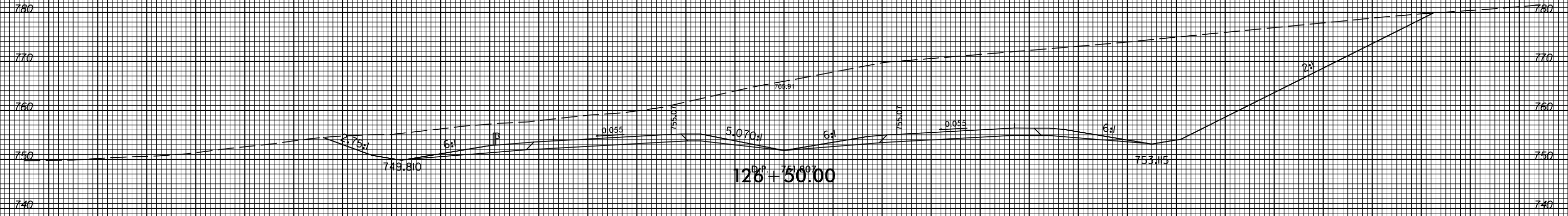
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PROJ. REFERENCE NO.  
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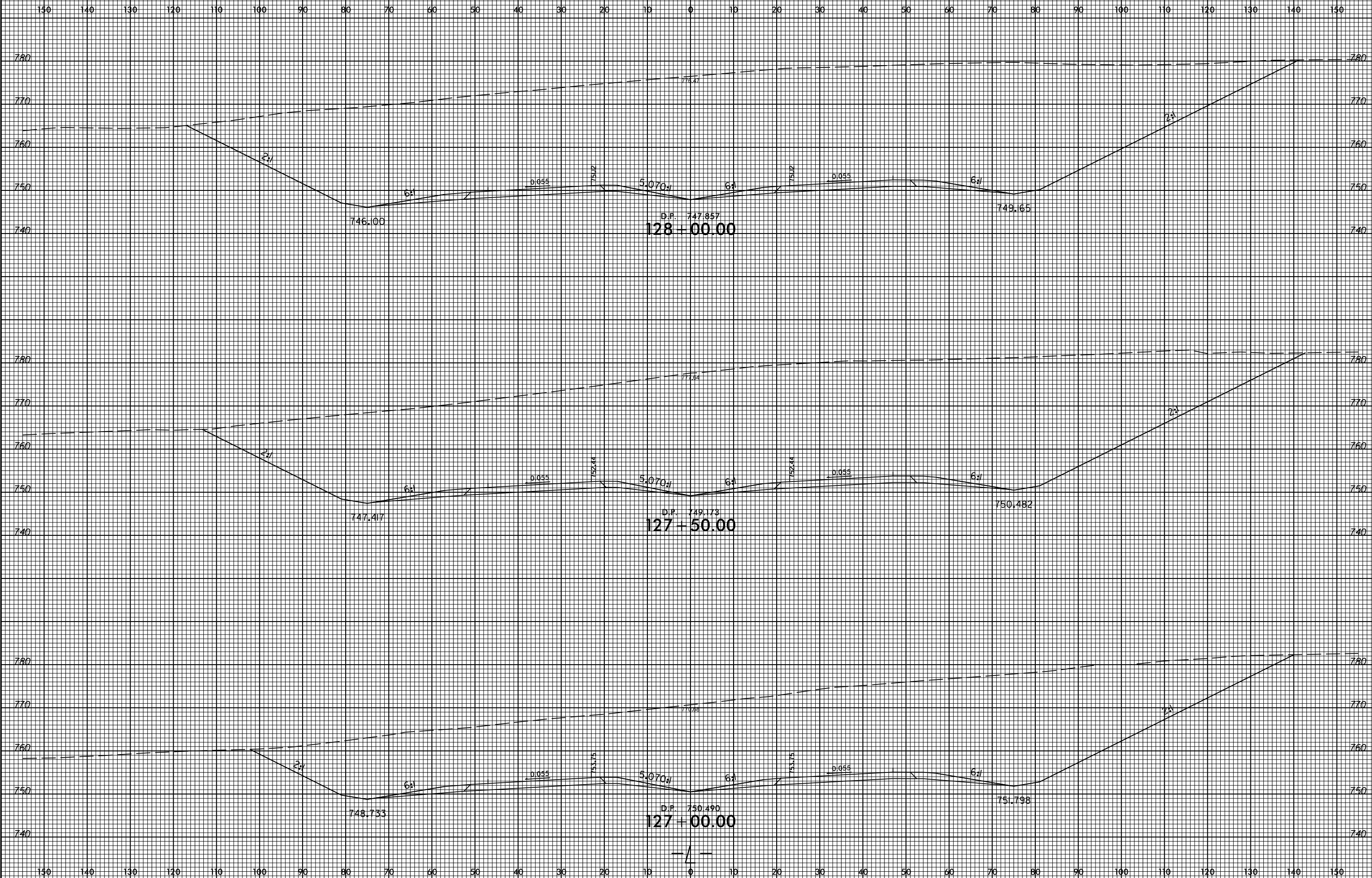
SHEET NO.  
X-76

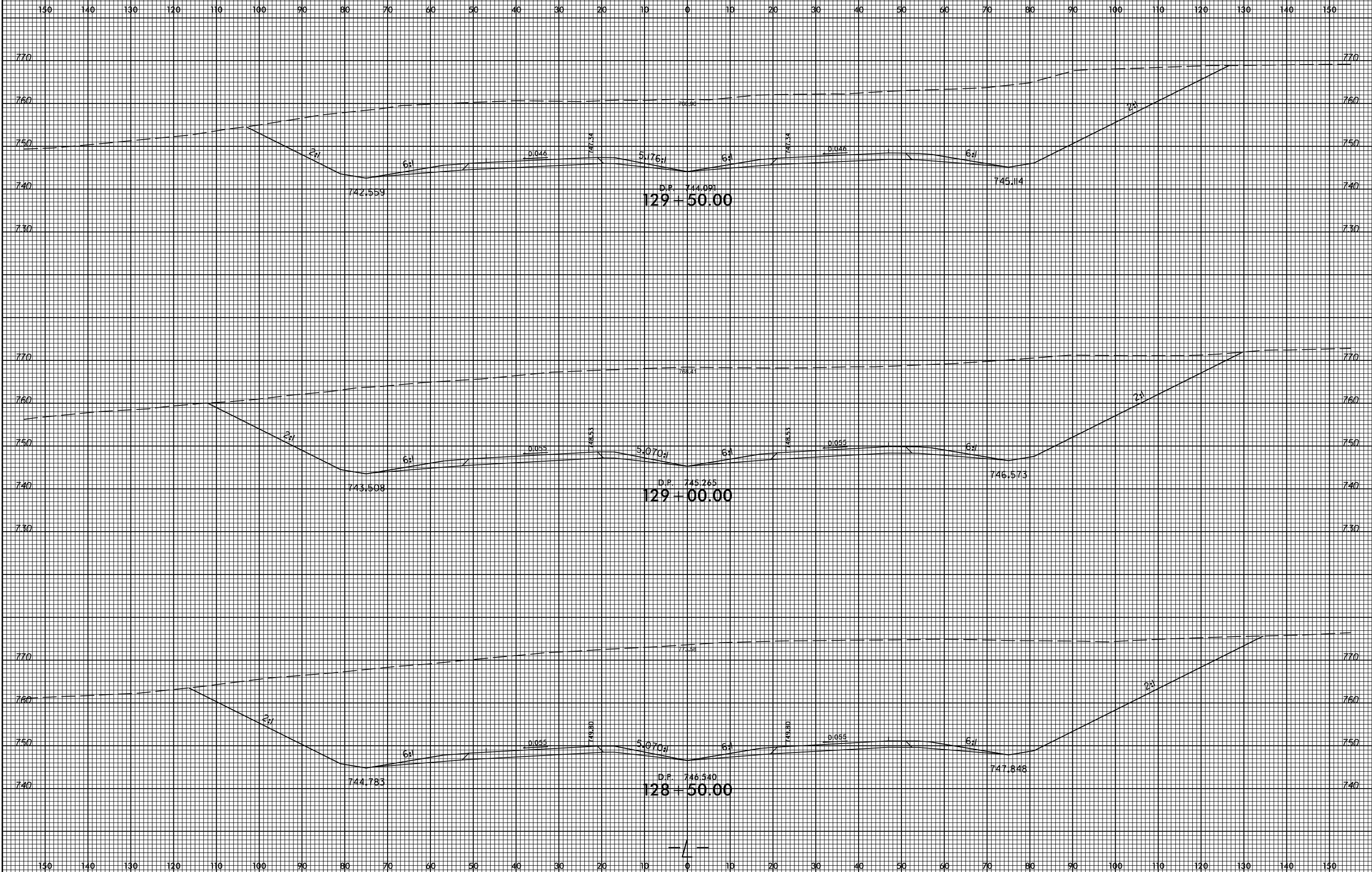
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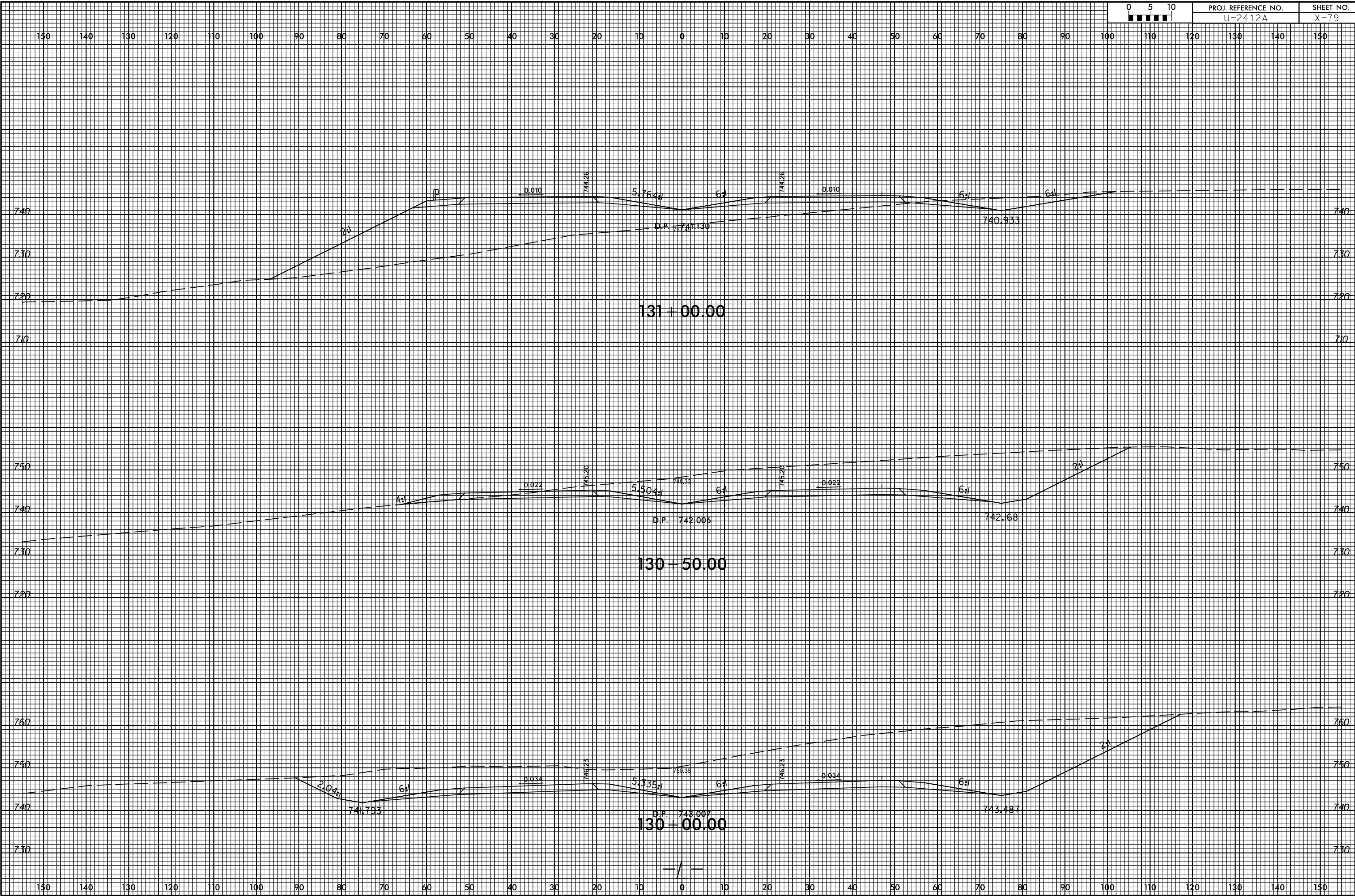


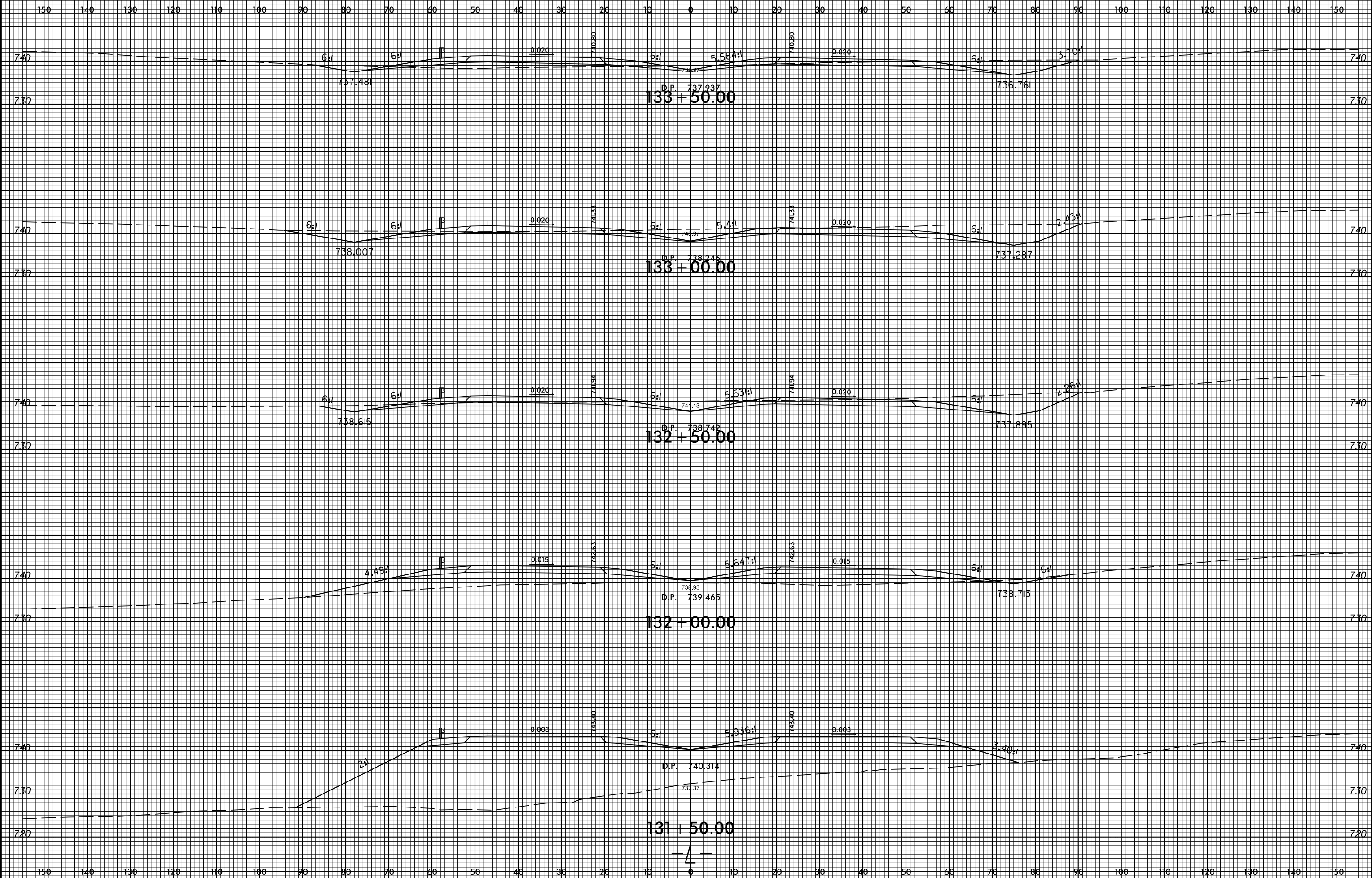
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7/13/99

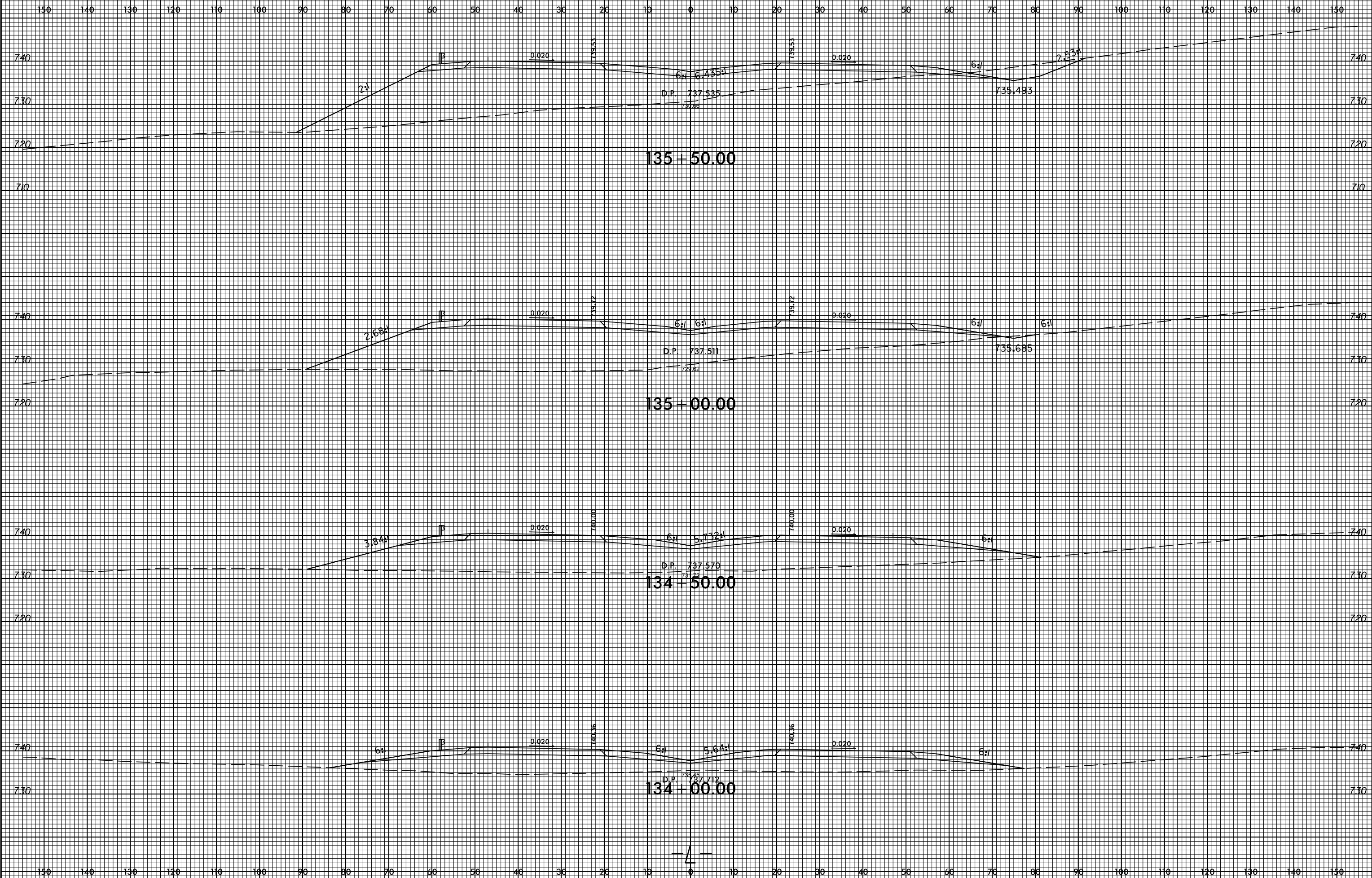


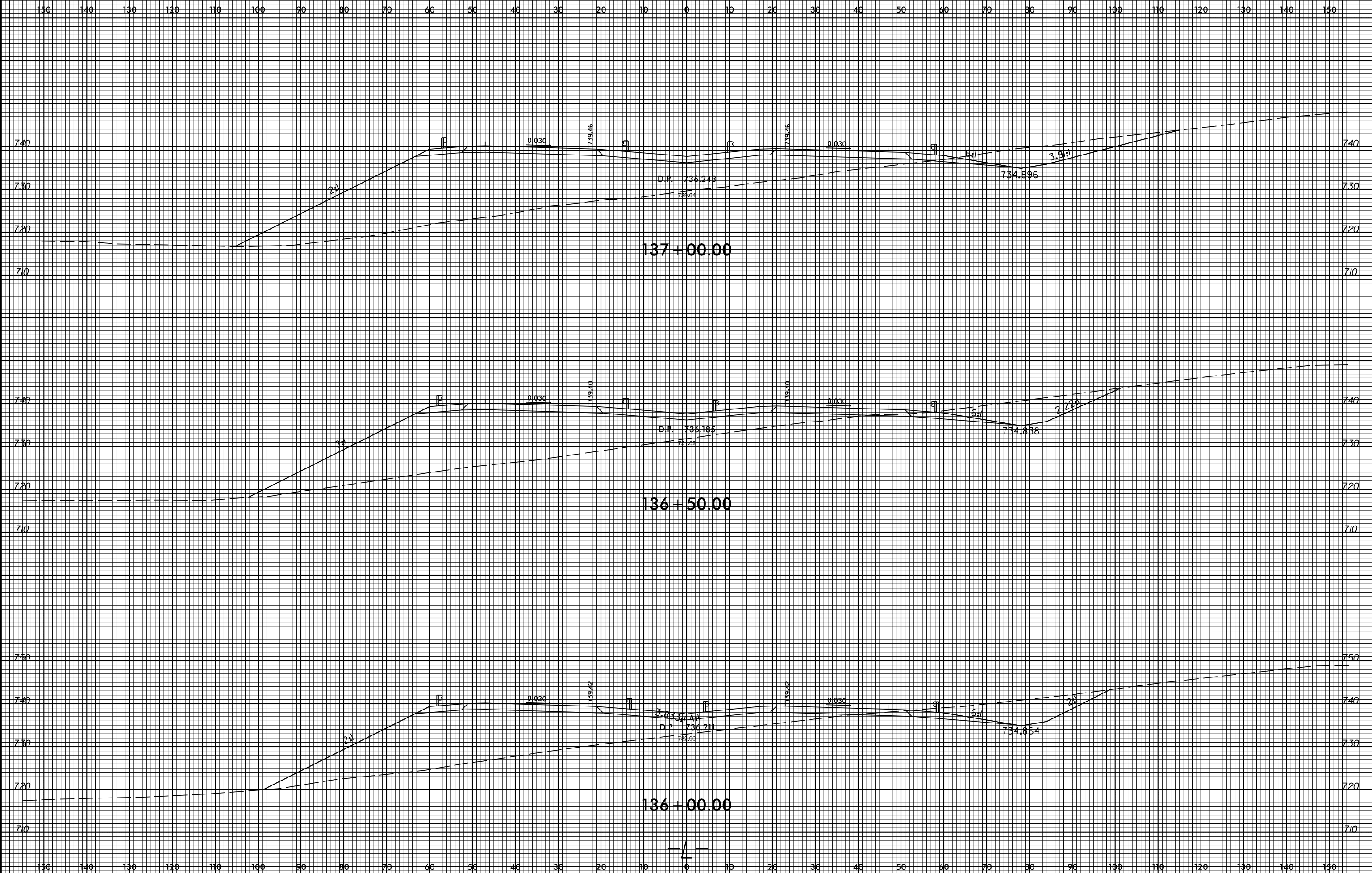




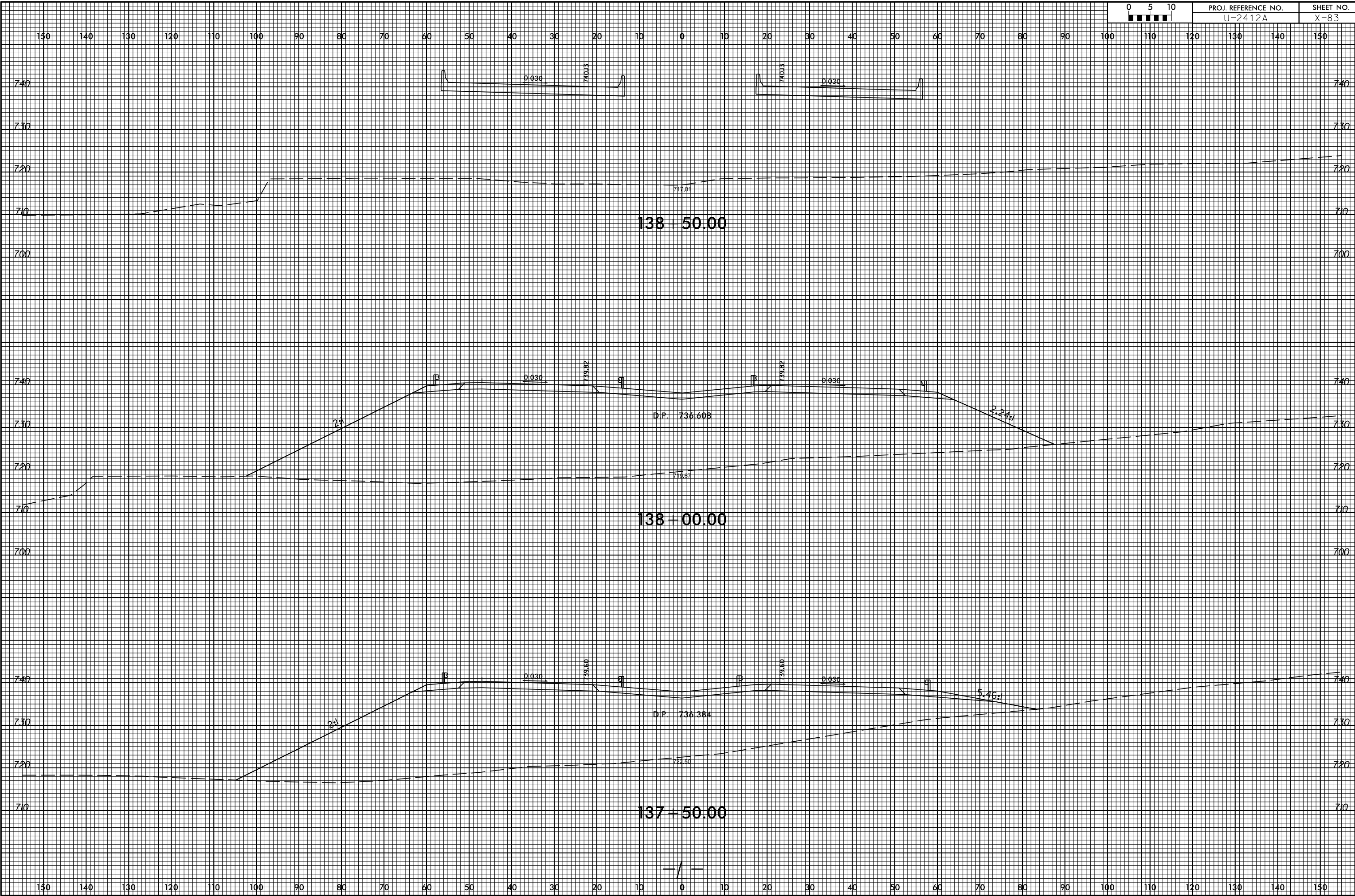










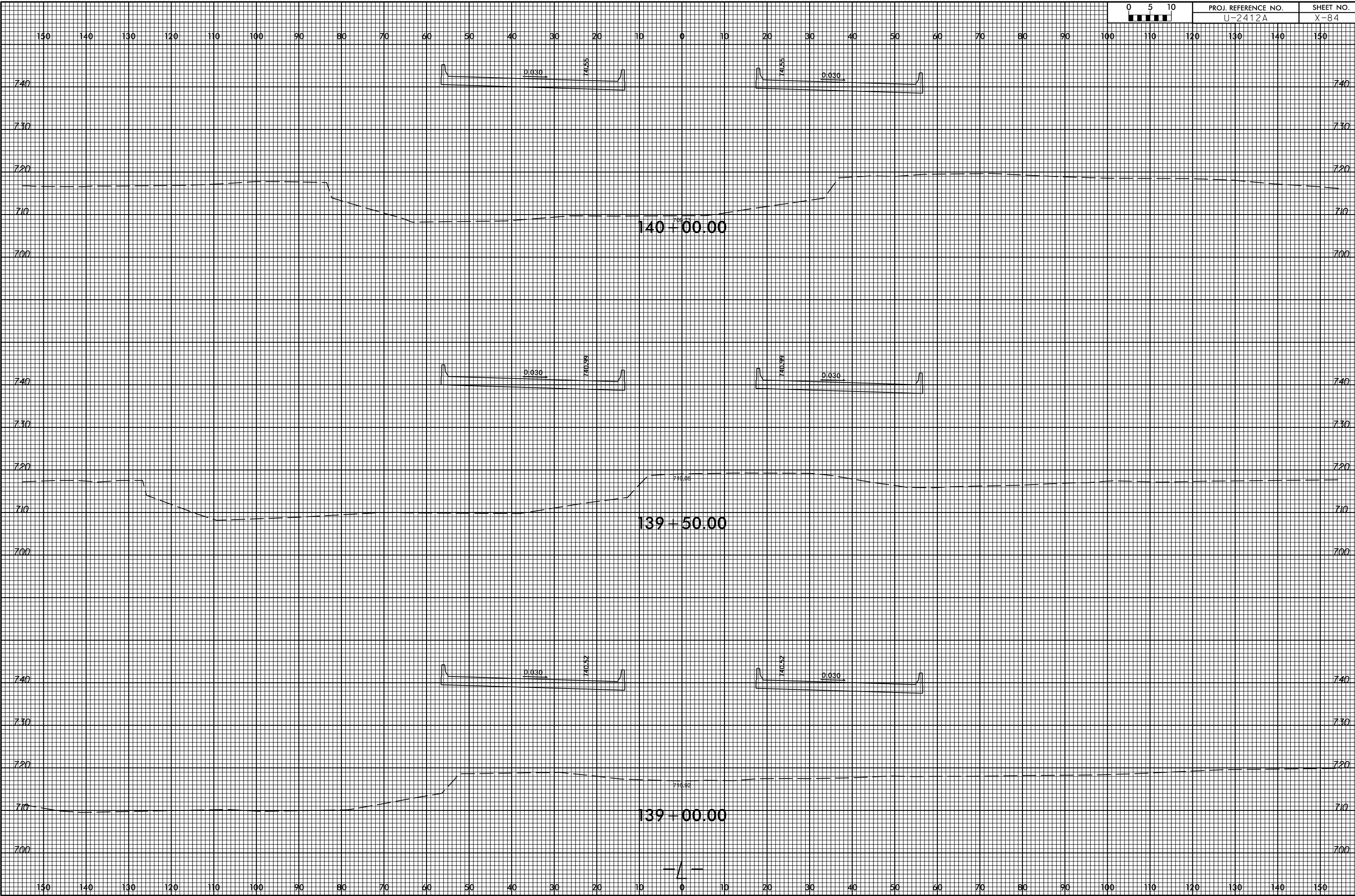


8/23/99



PROJ. REFERENCE NO.  
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X-84



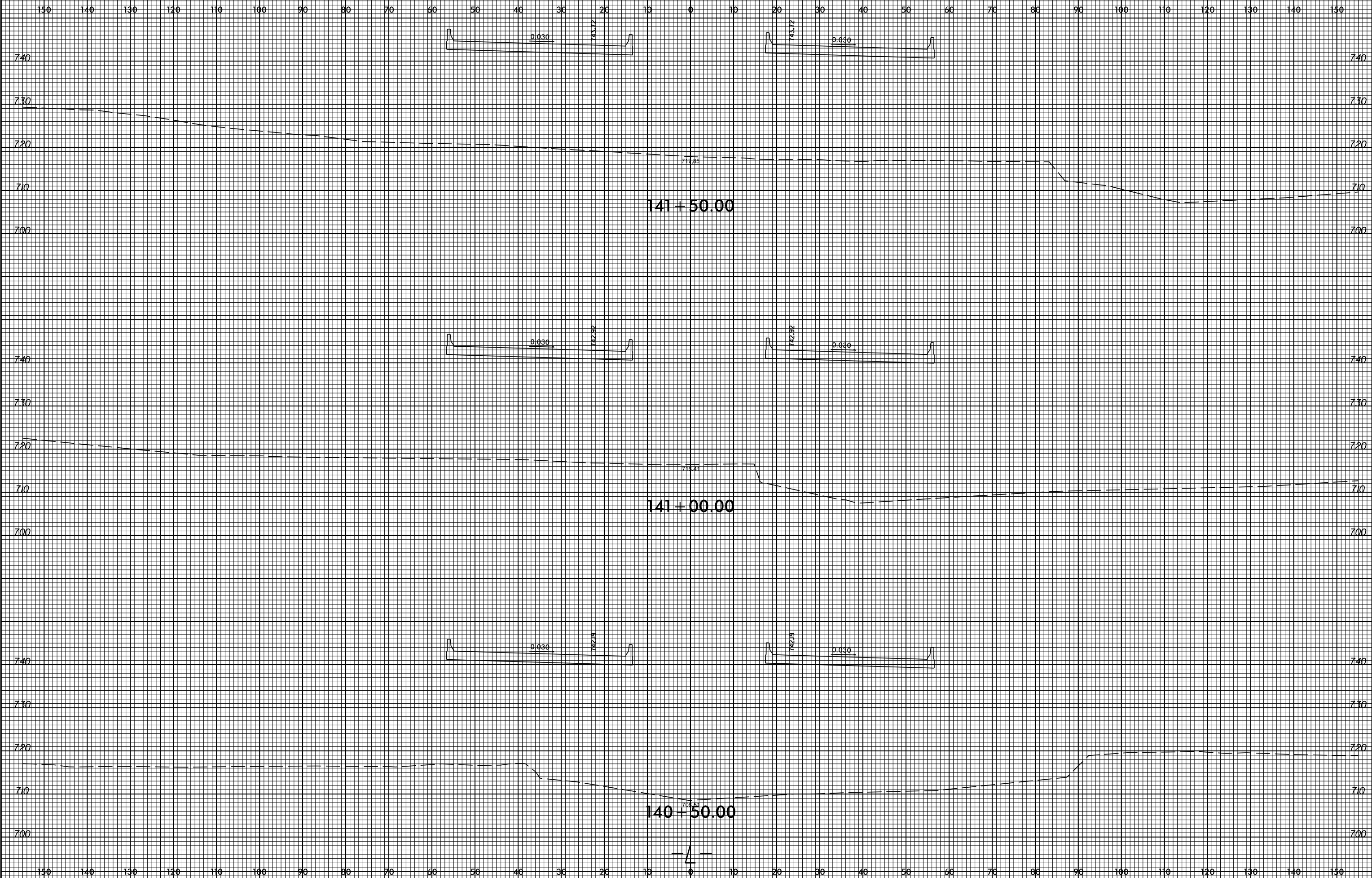
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7/13/99

8/23/99

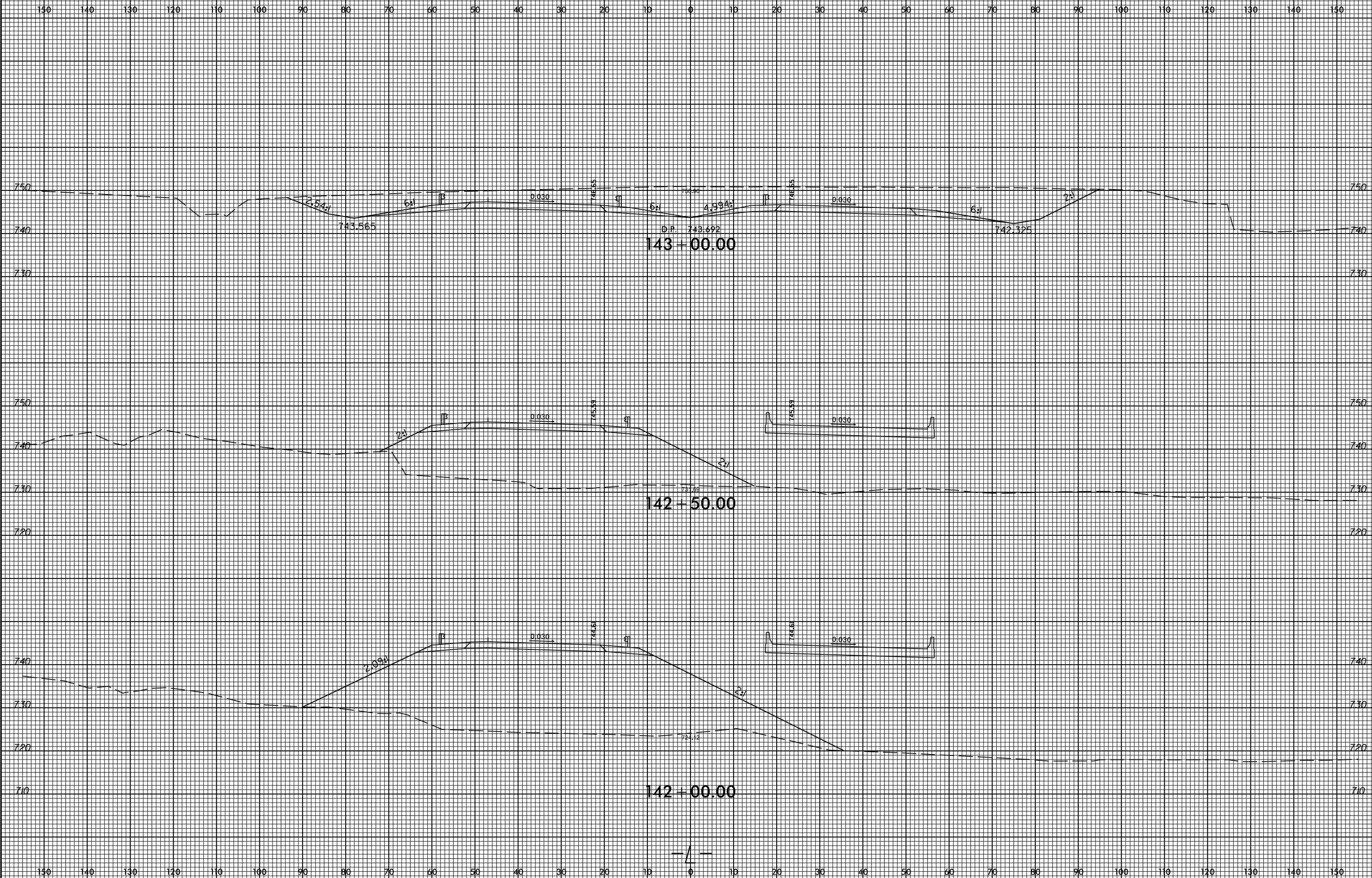


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7/13/99



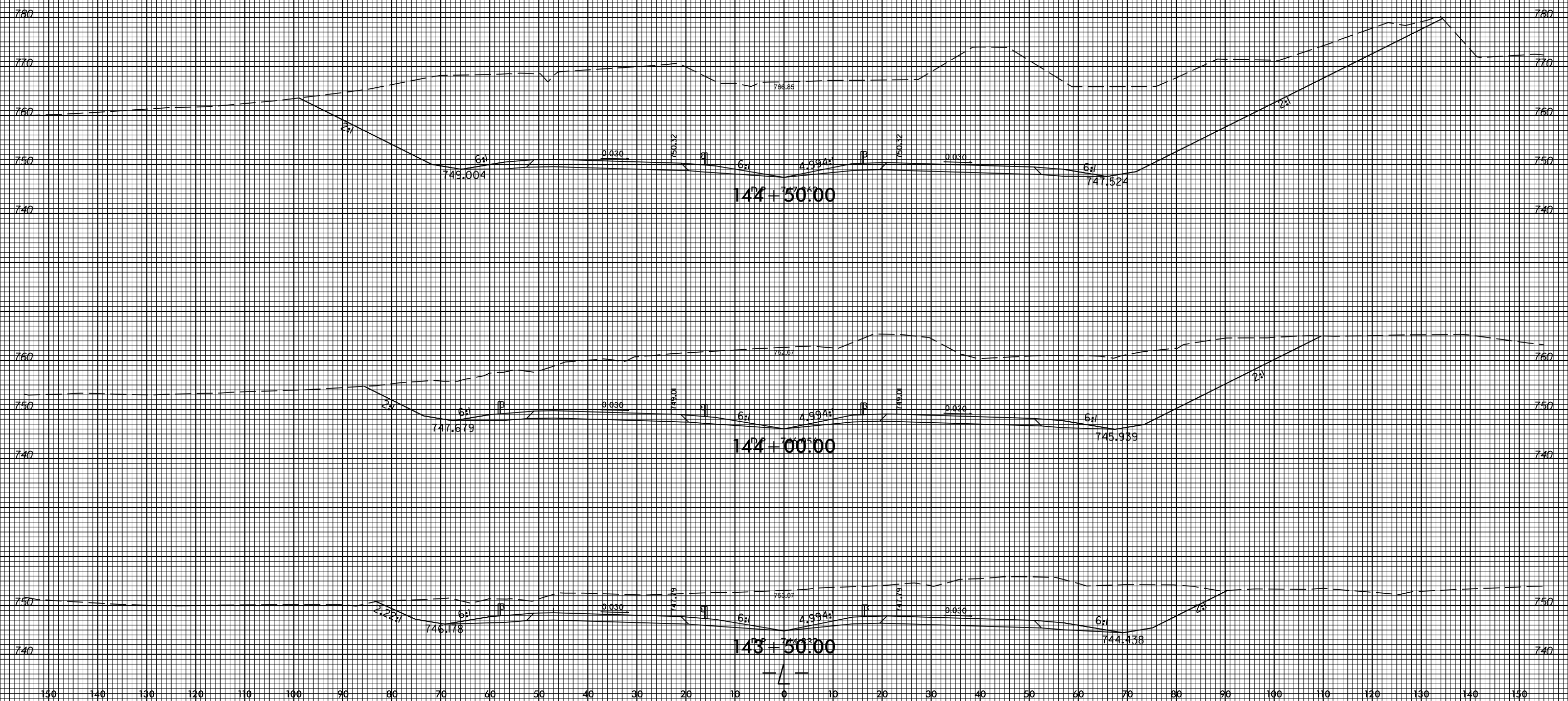
8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-87

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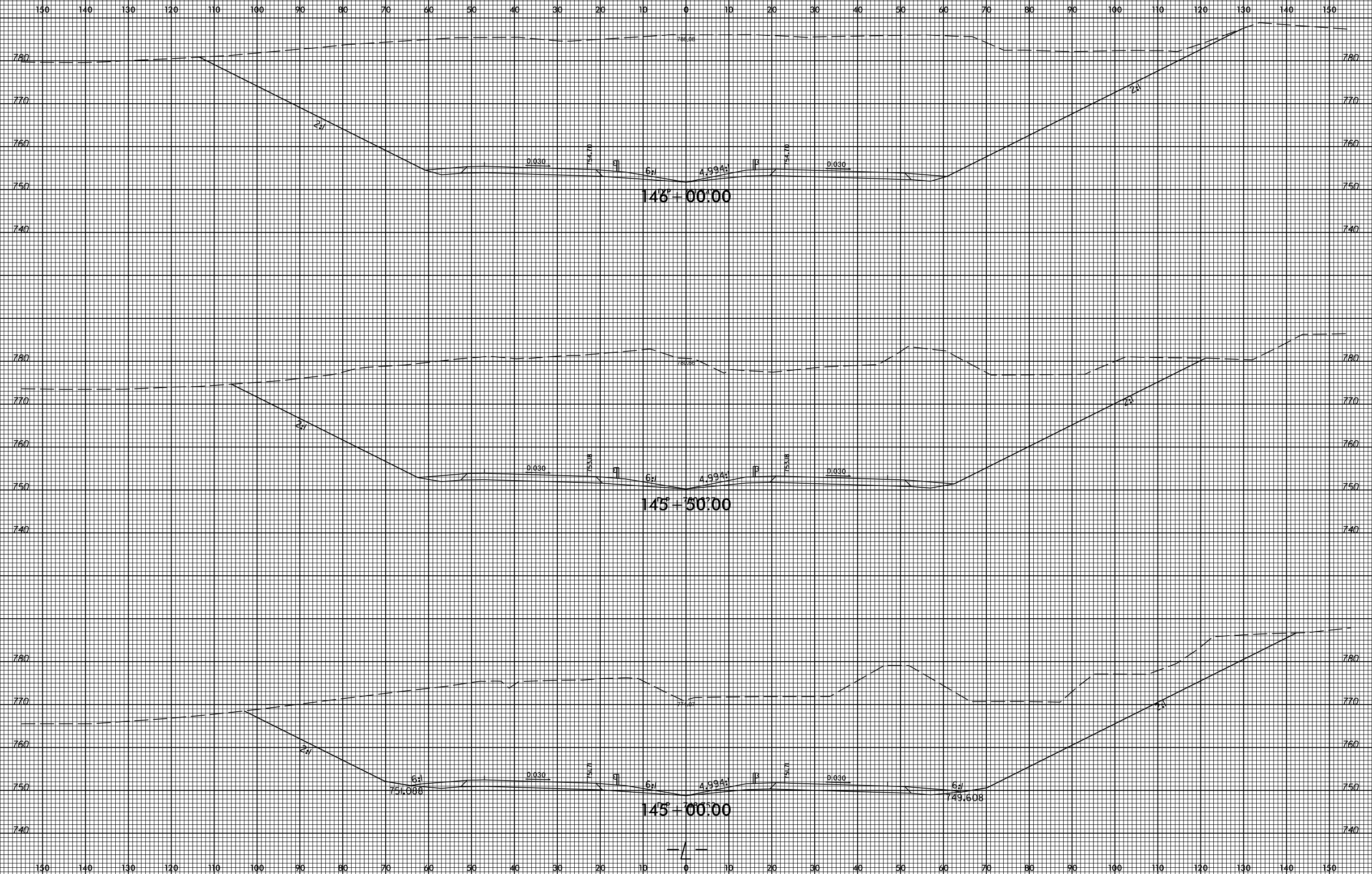
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8/23/99

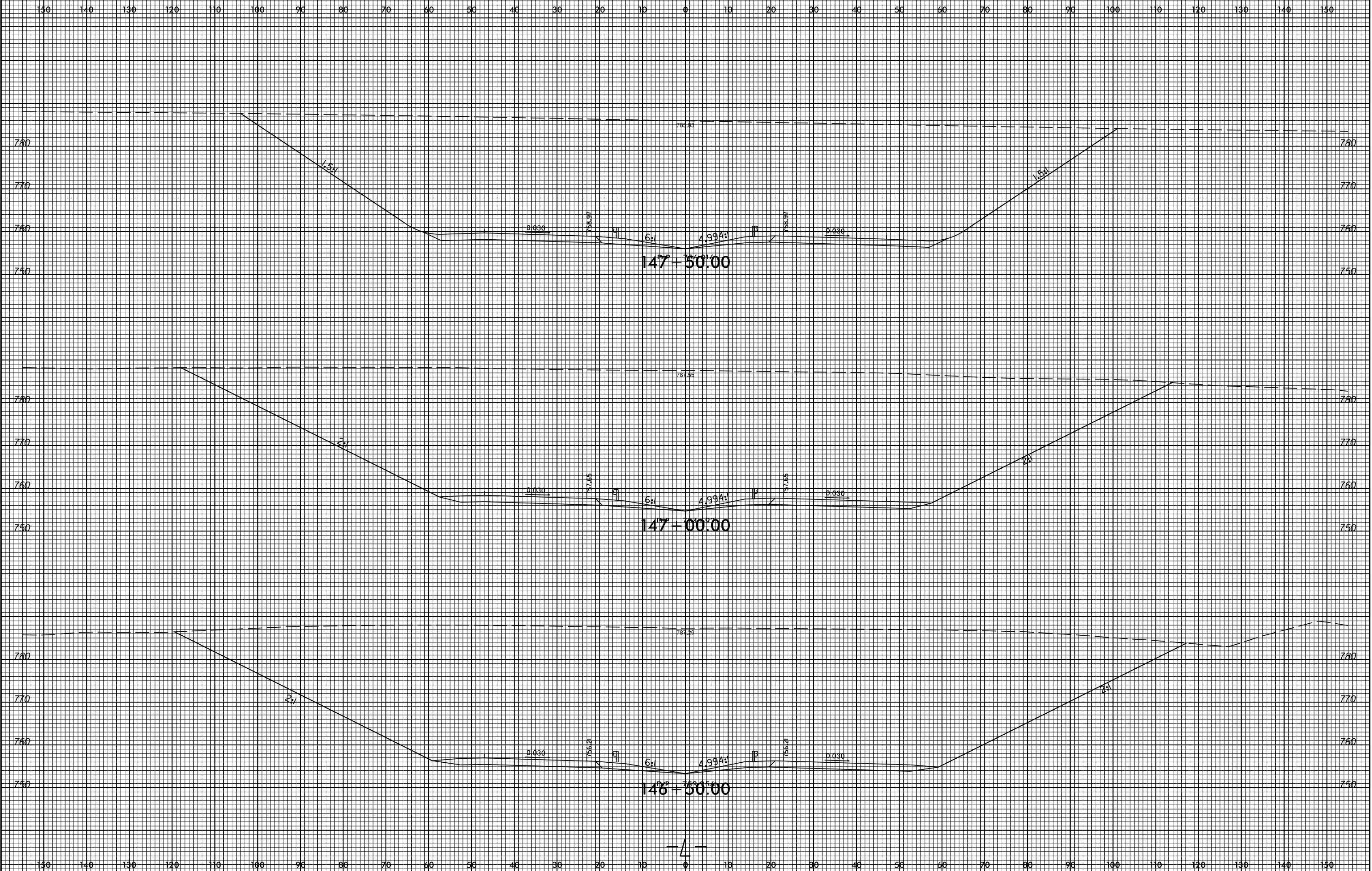


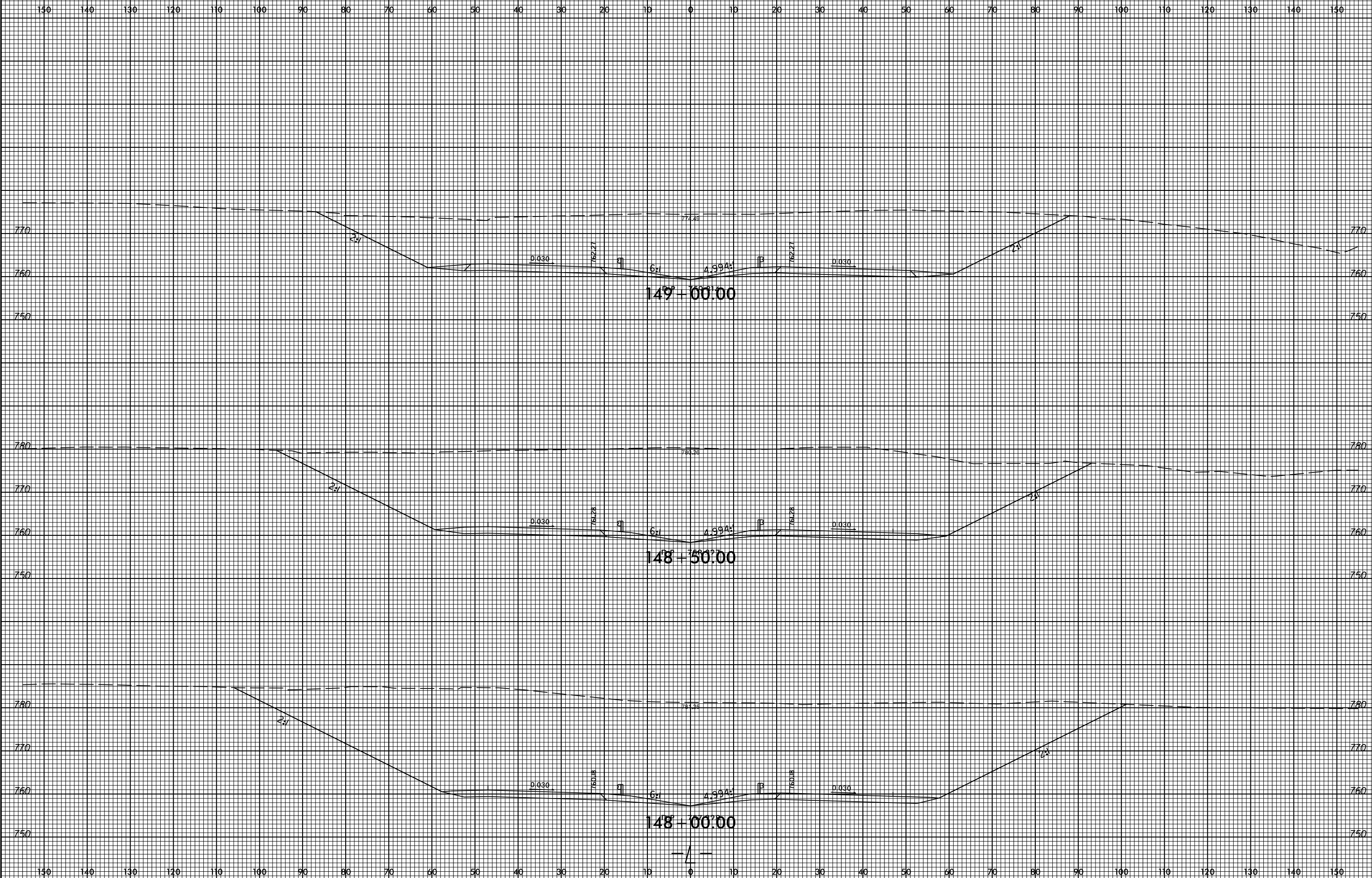
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X-88



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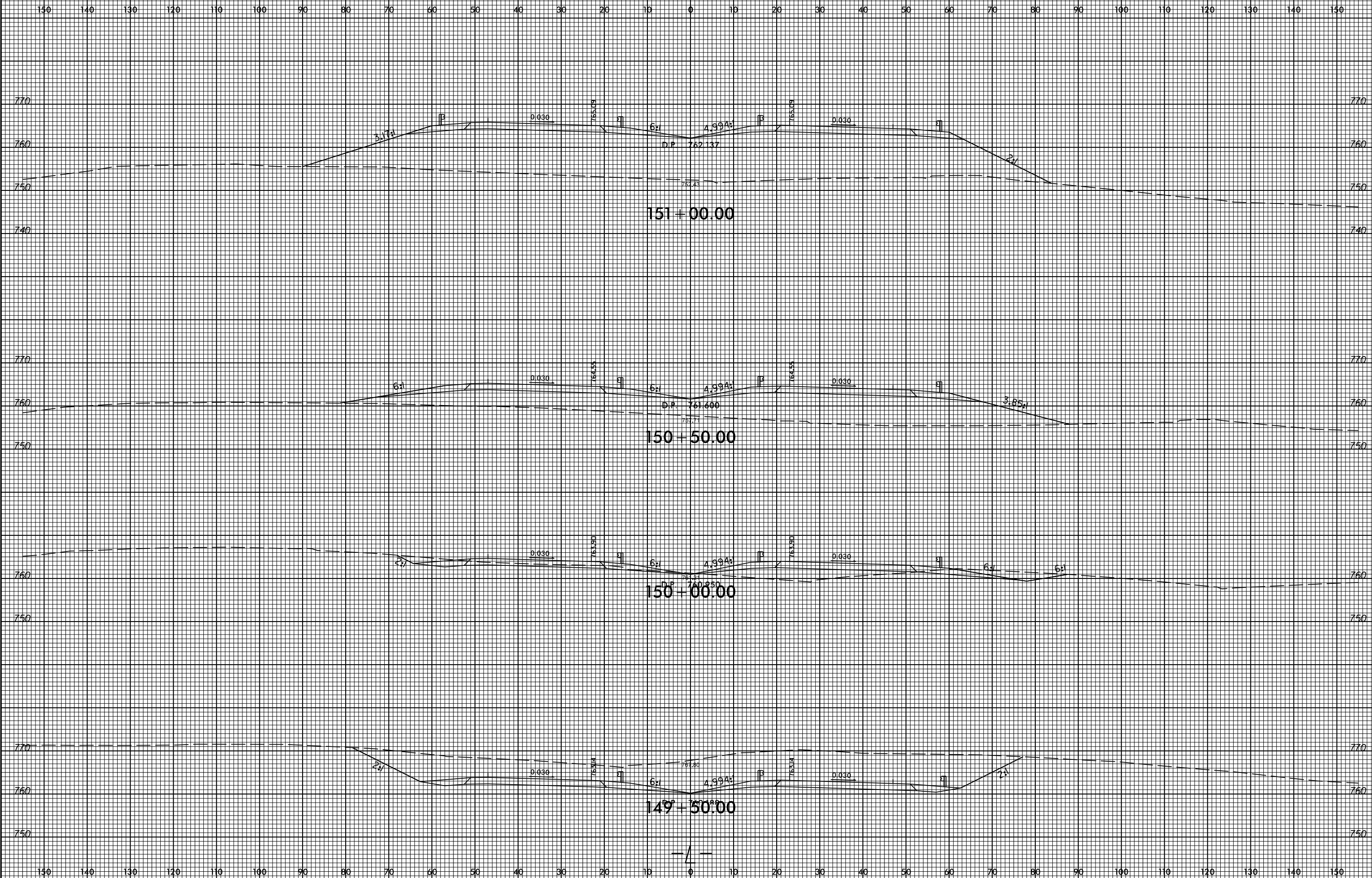


8/23/99



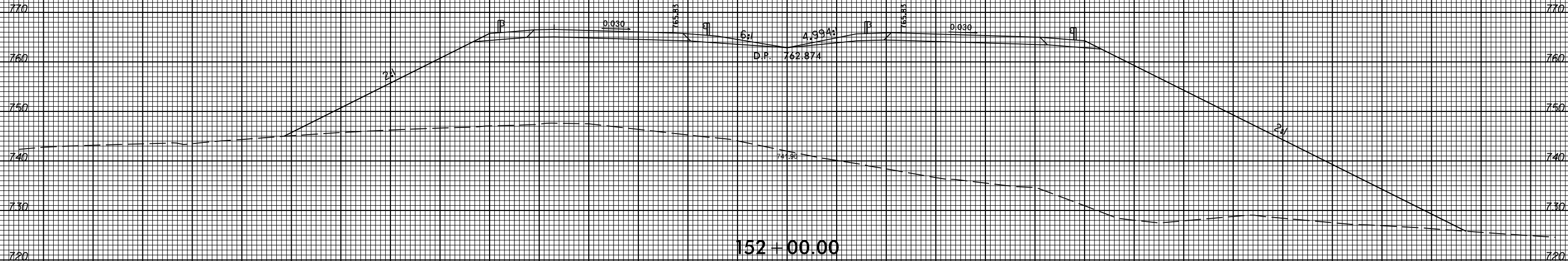
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SHEET NO.  
X-91

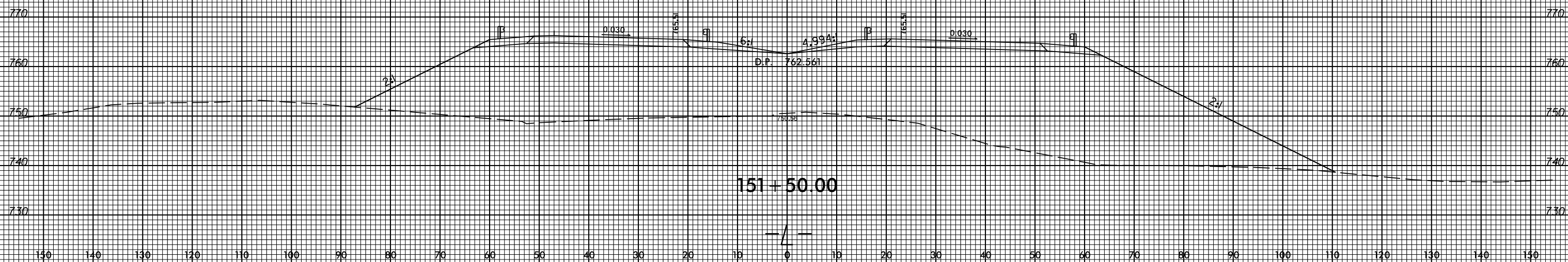


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7/13/99

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152+00.00



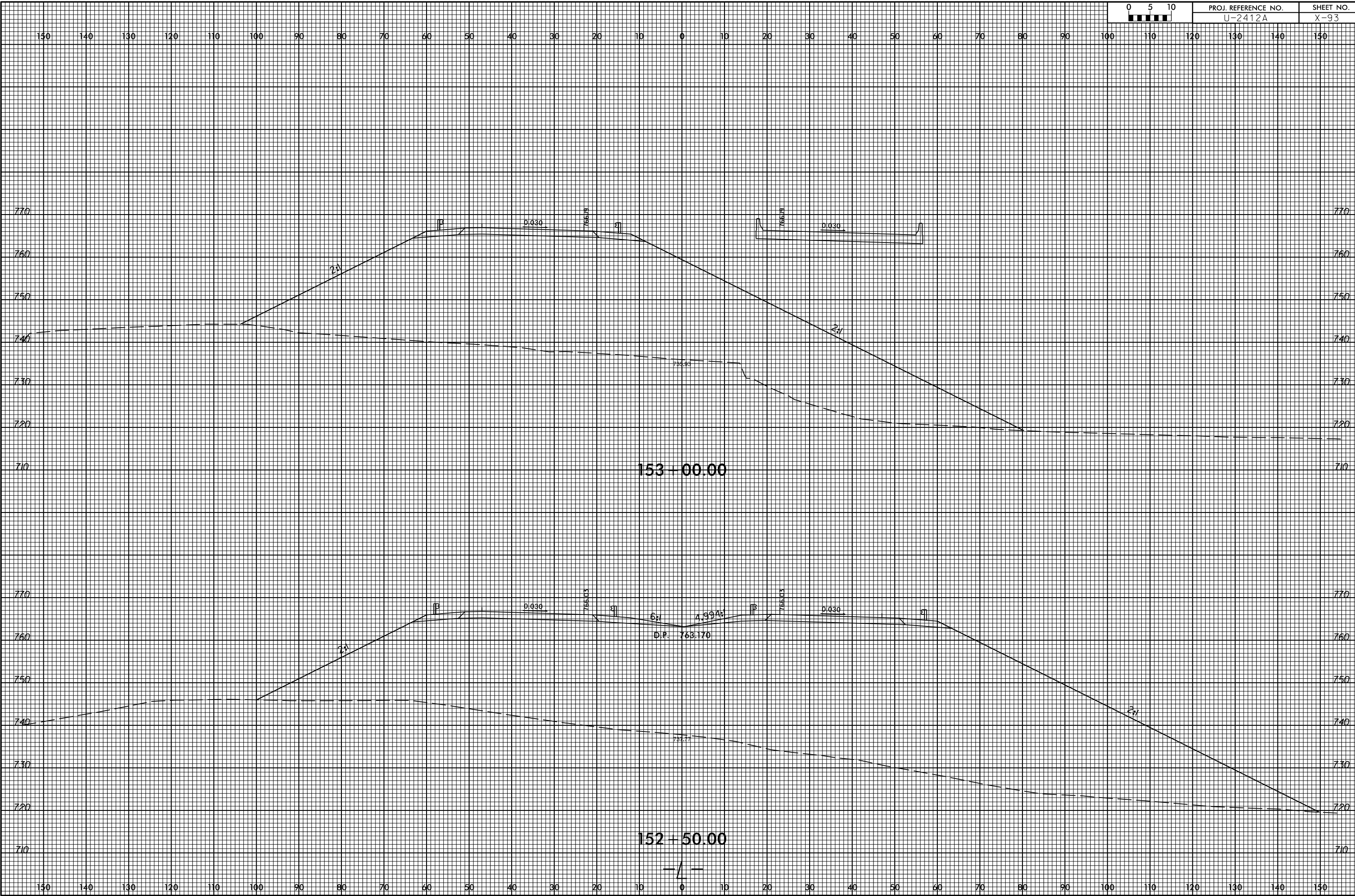
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8/23/99

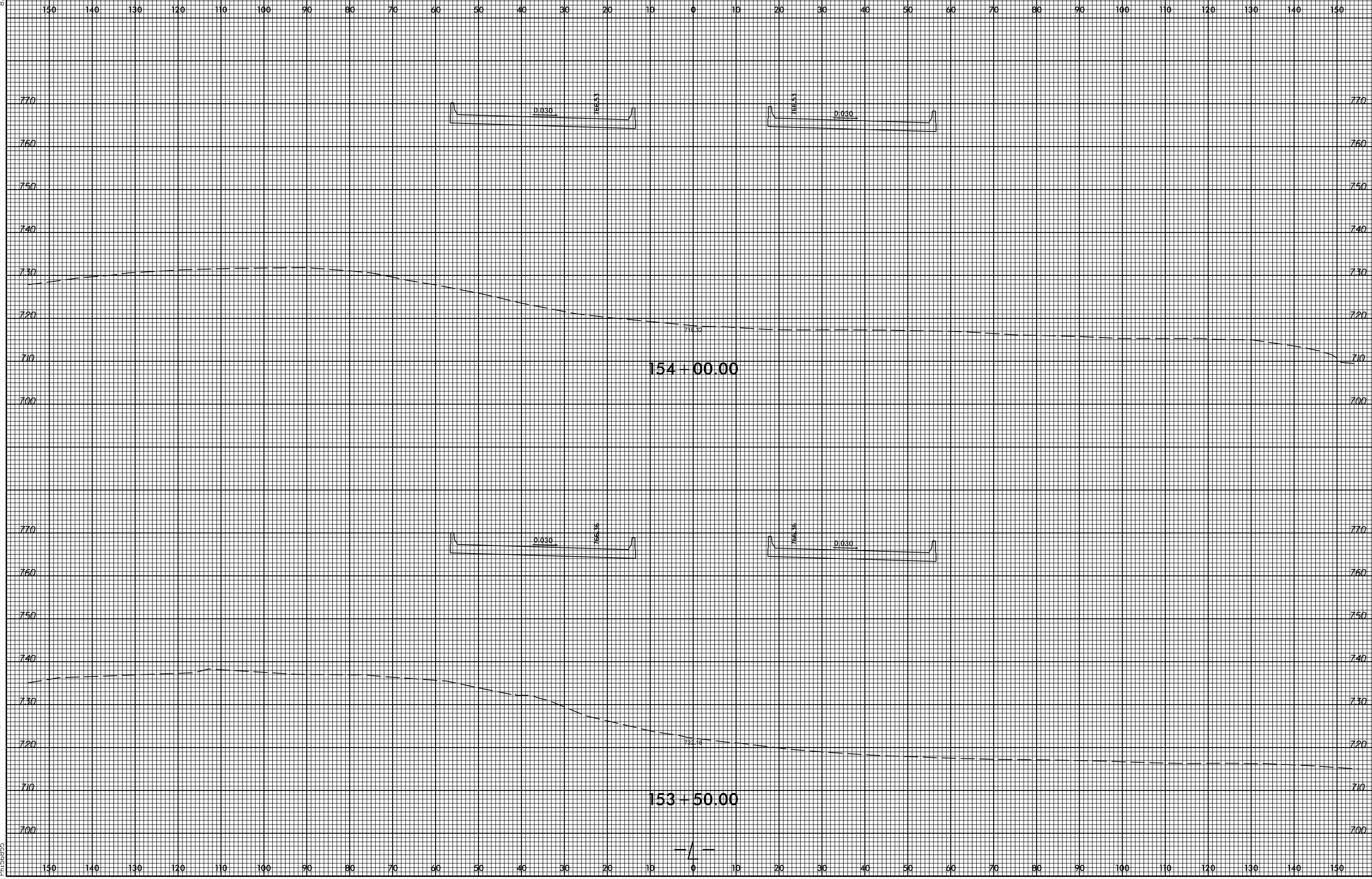


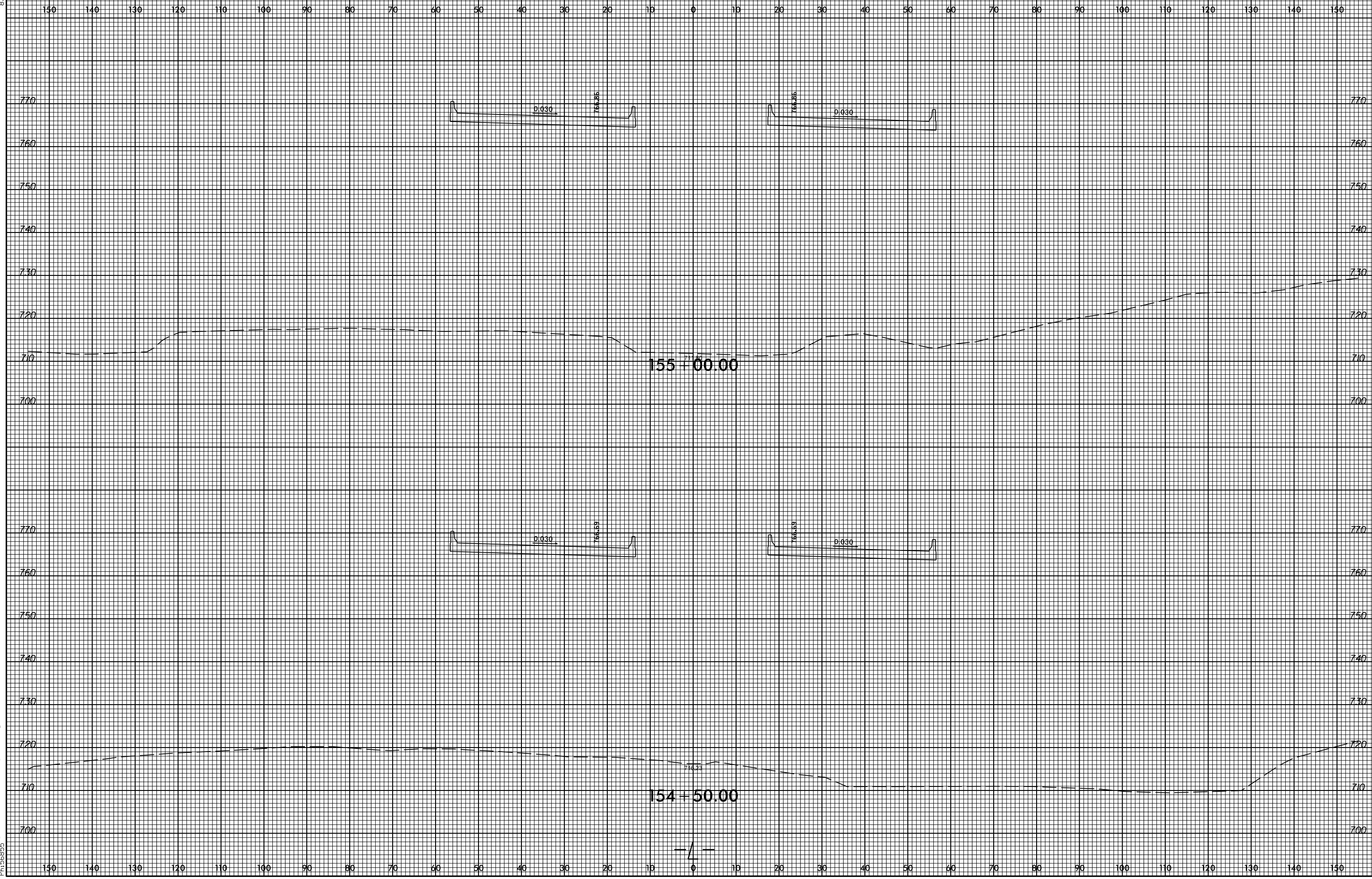
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U-2412A

SHEET NO.  
X-93



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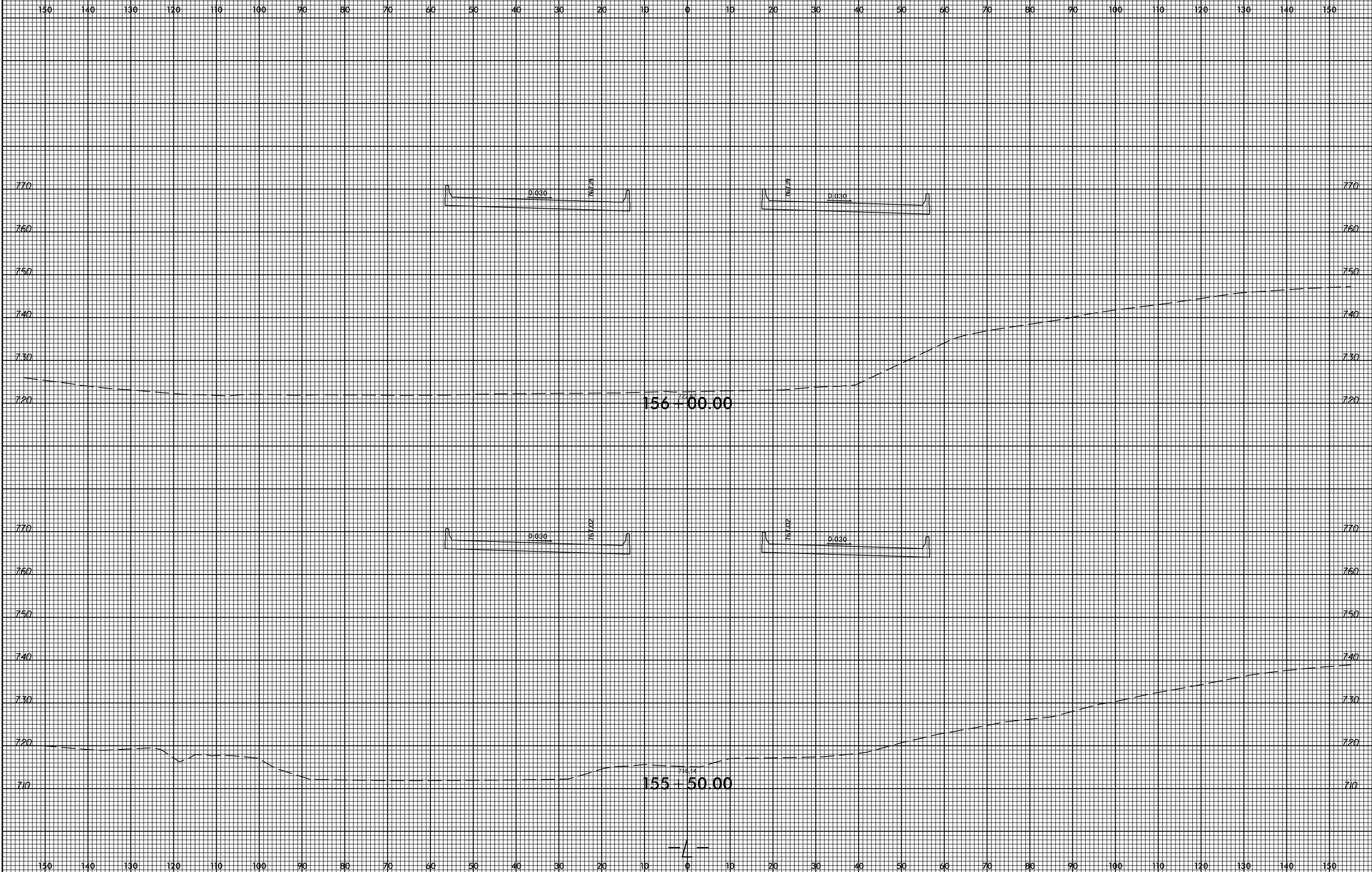


8/23/99



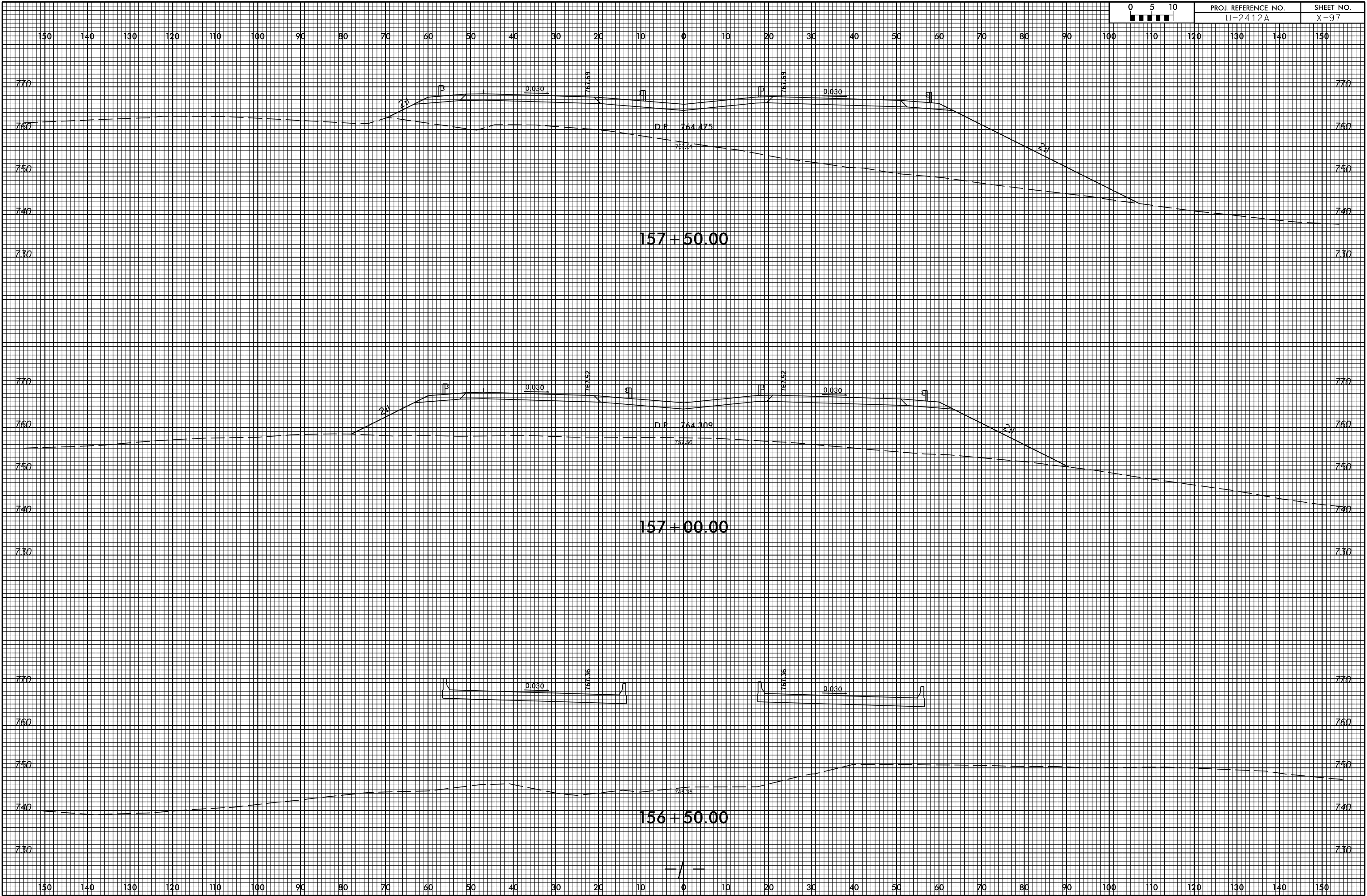
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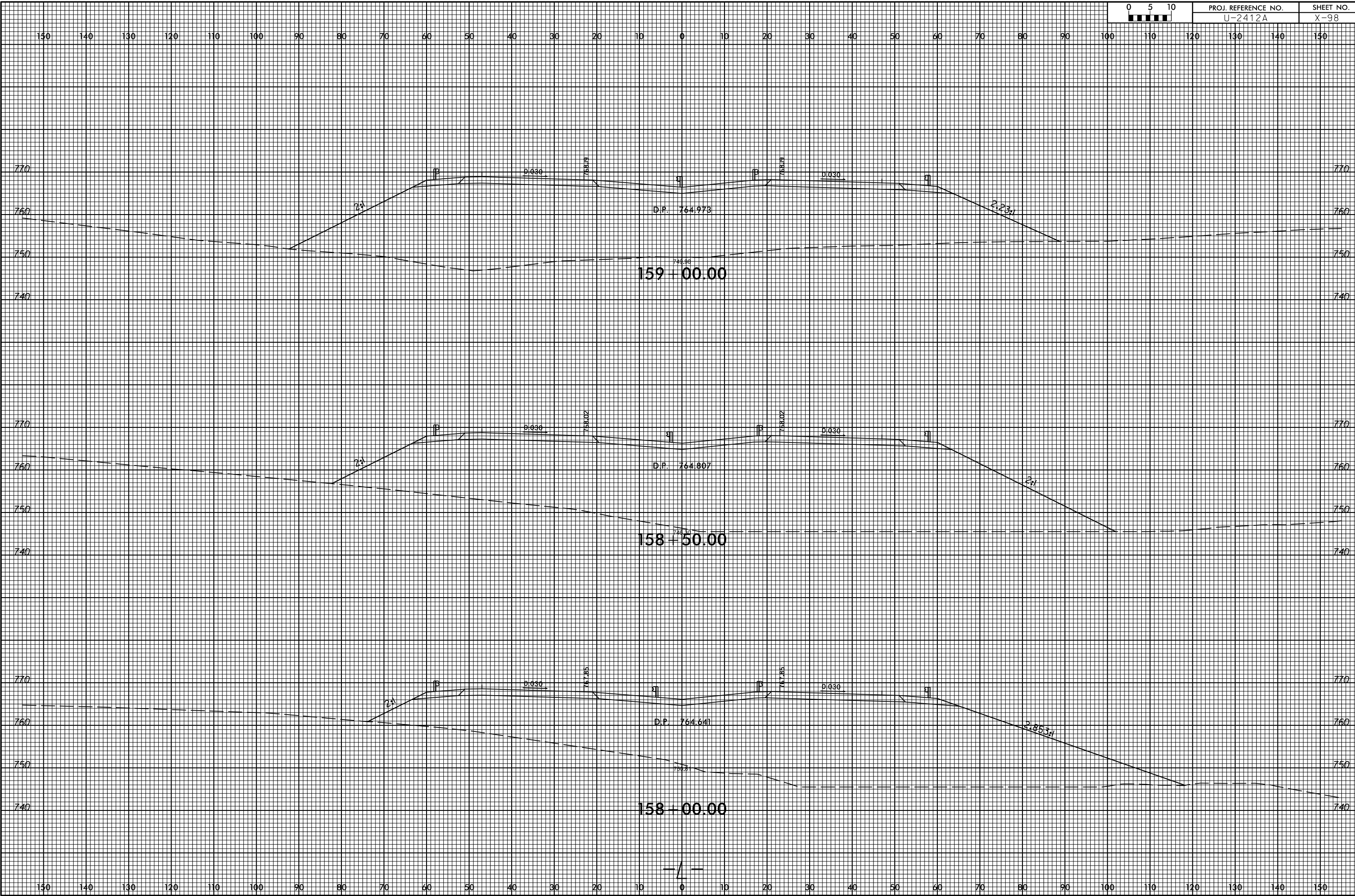
SHEET NO.  
X-96



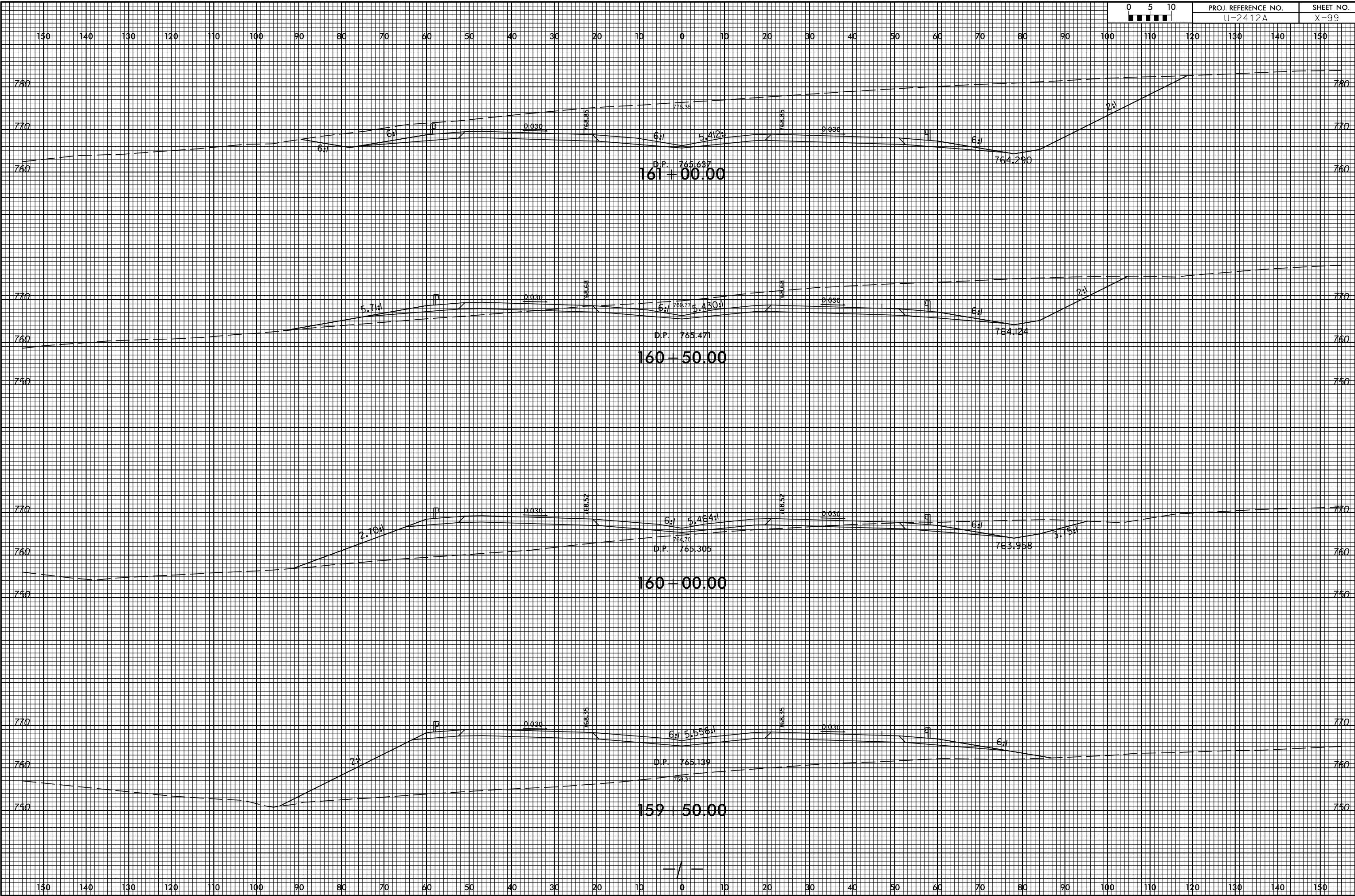
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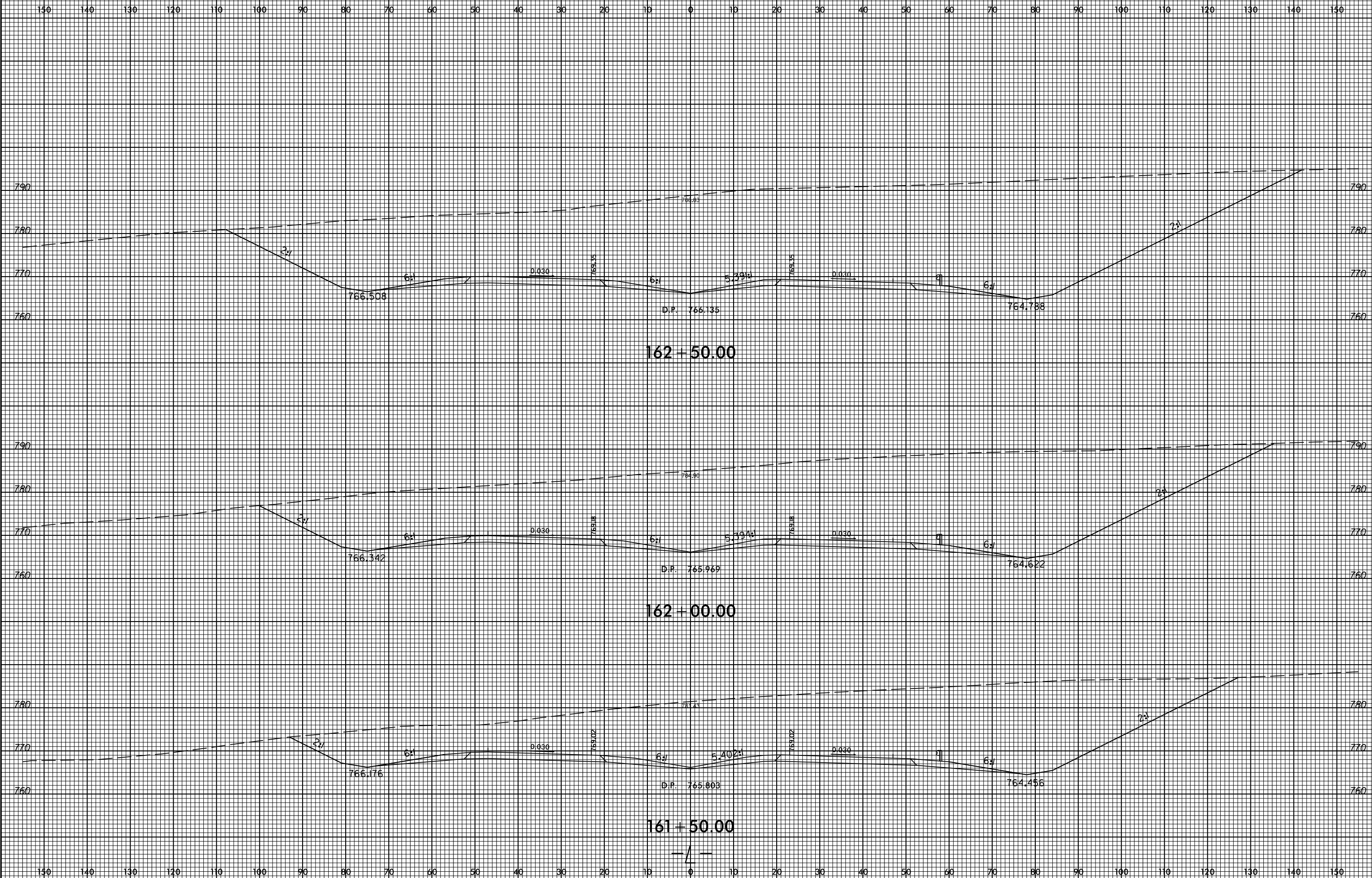


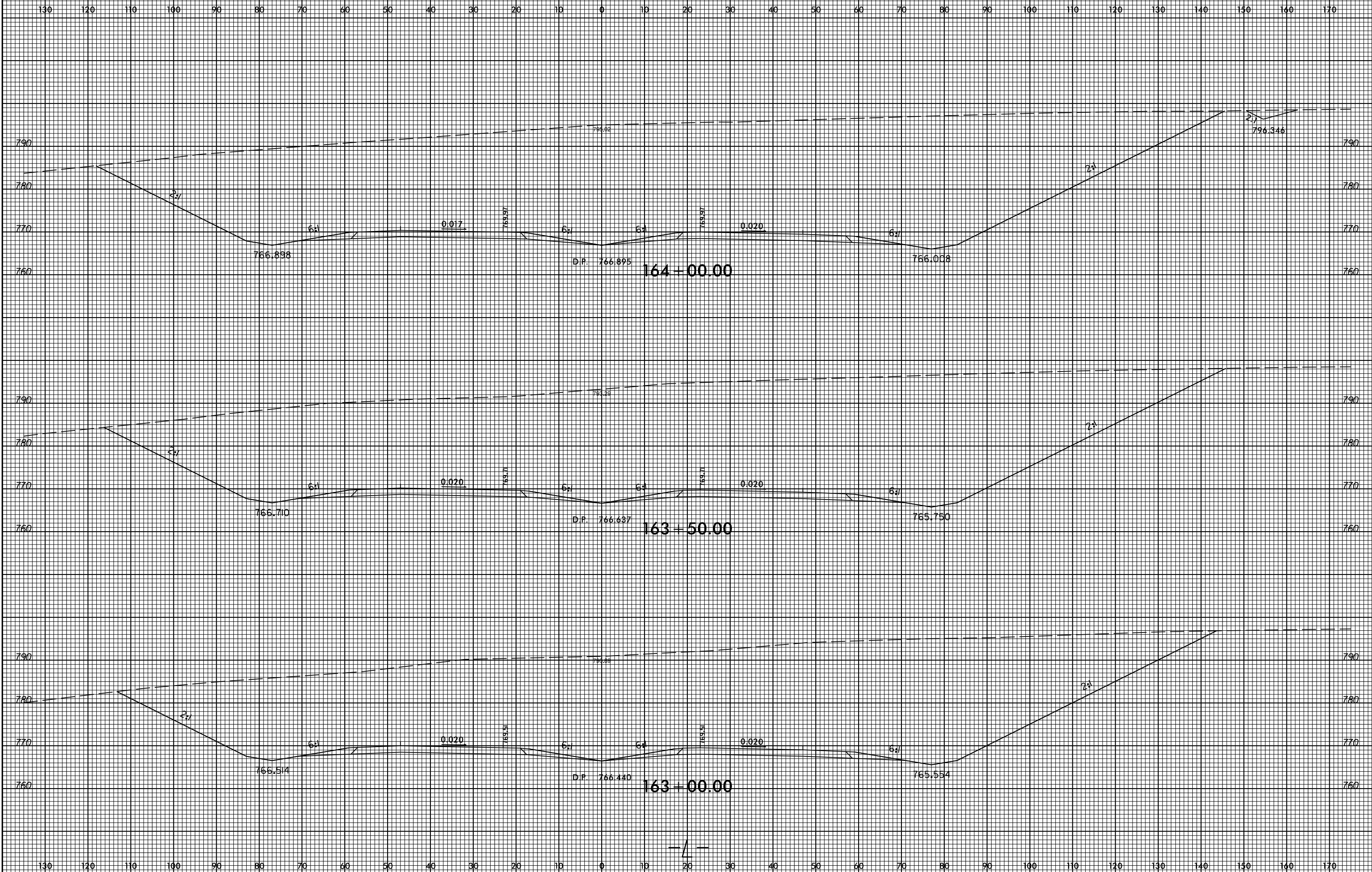


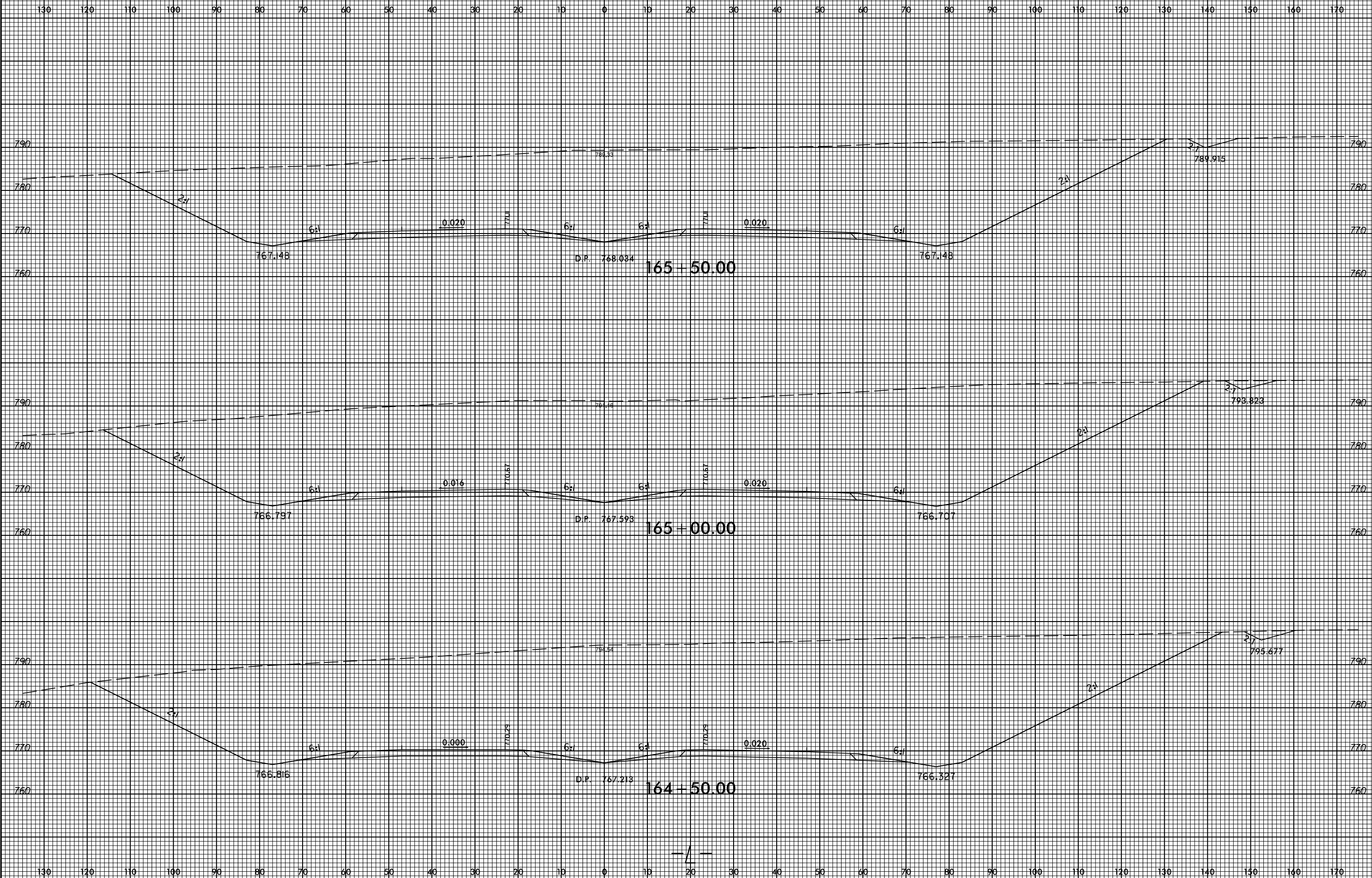












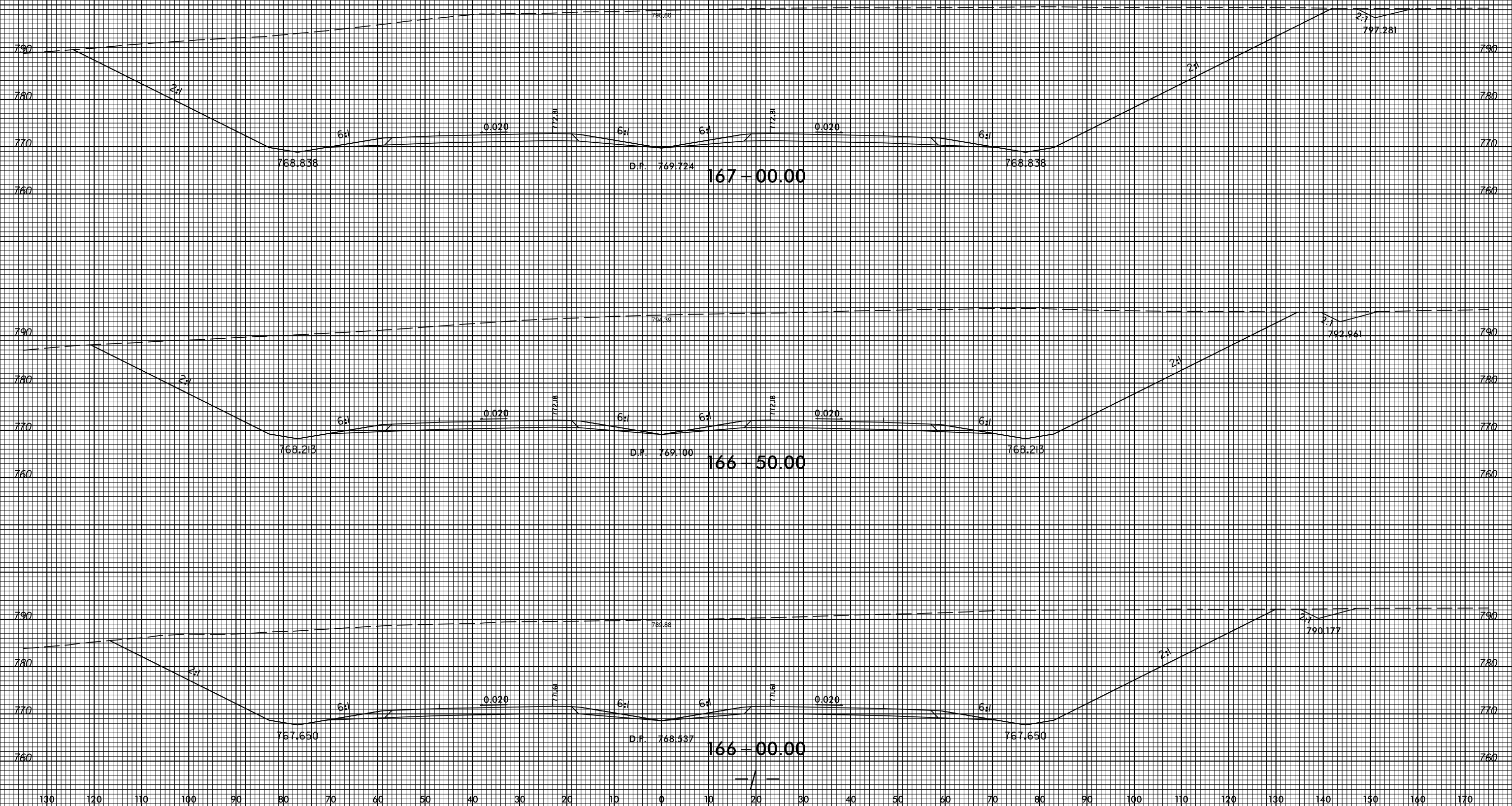
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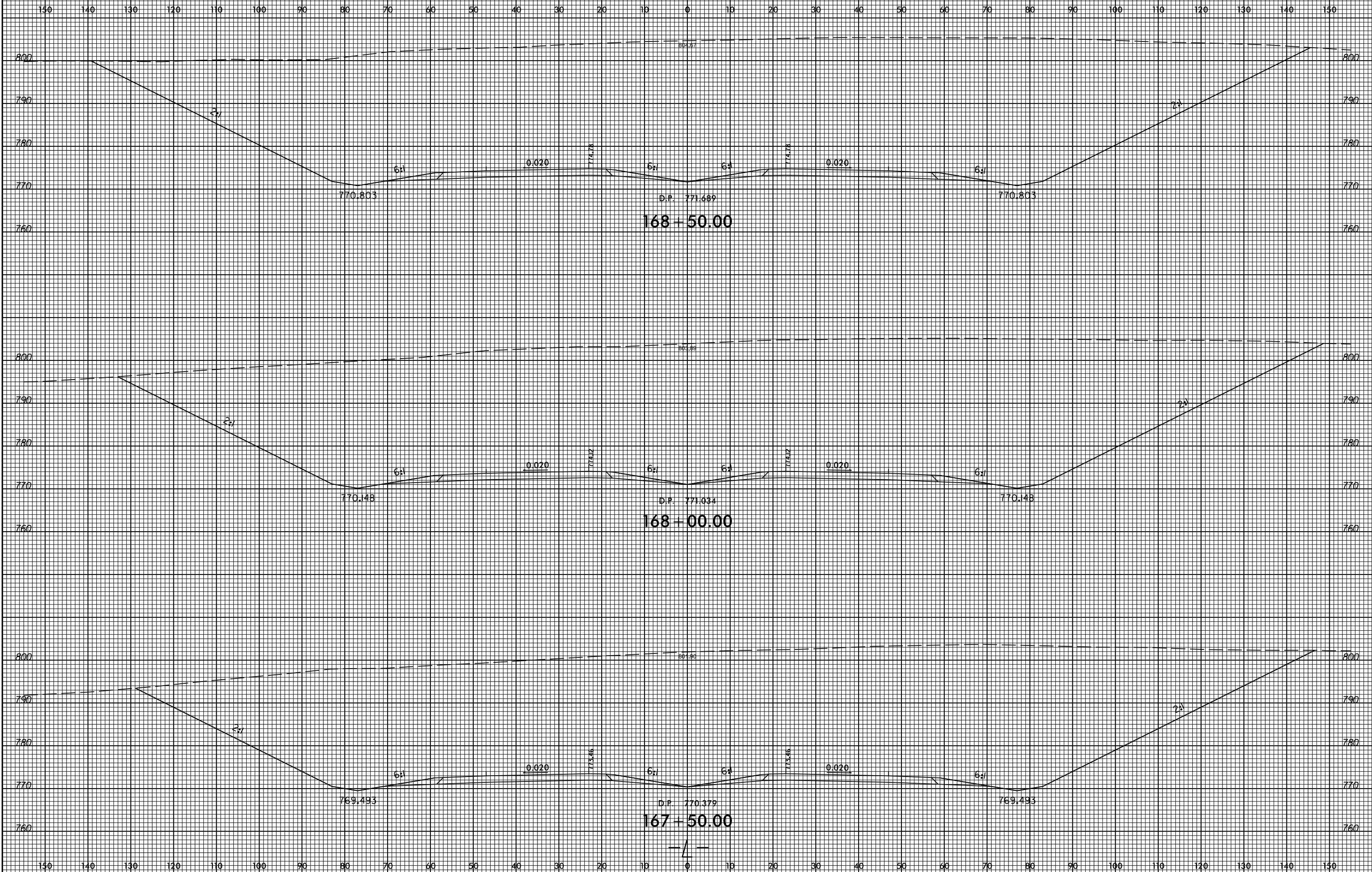
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U-2412A

SHEET NO.  
X-103

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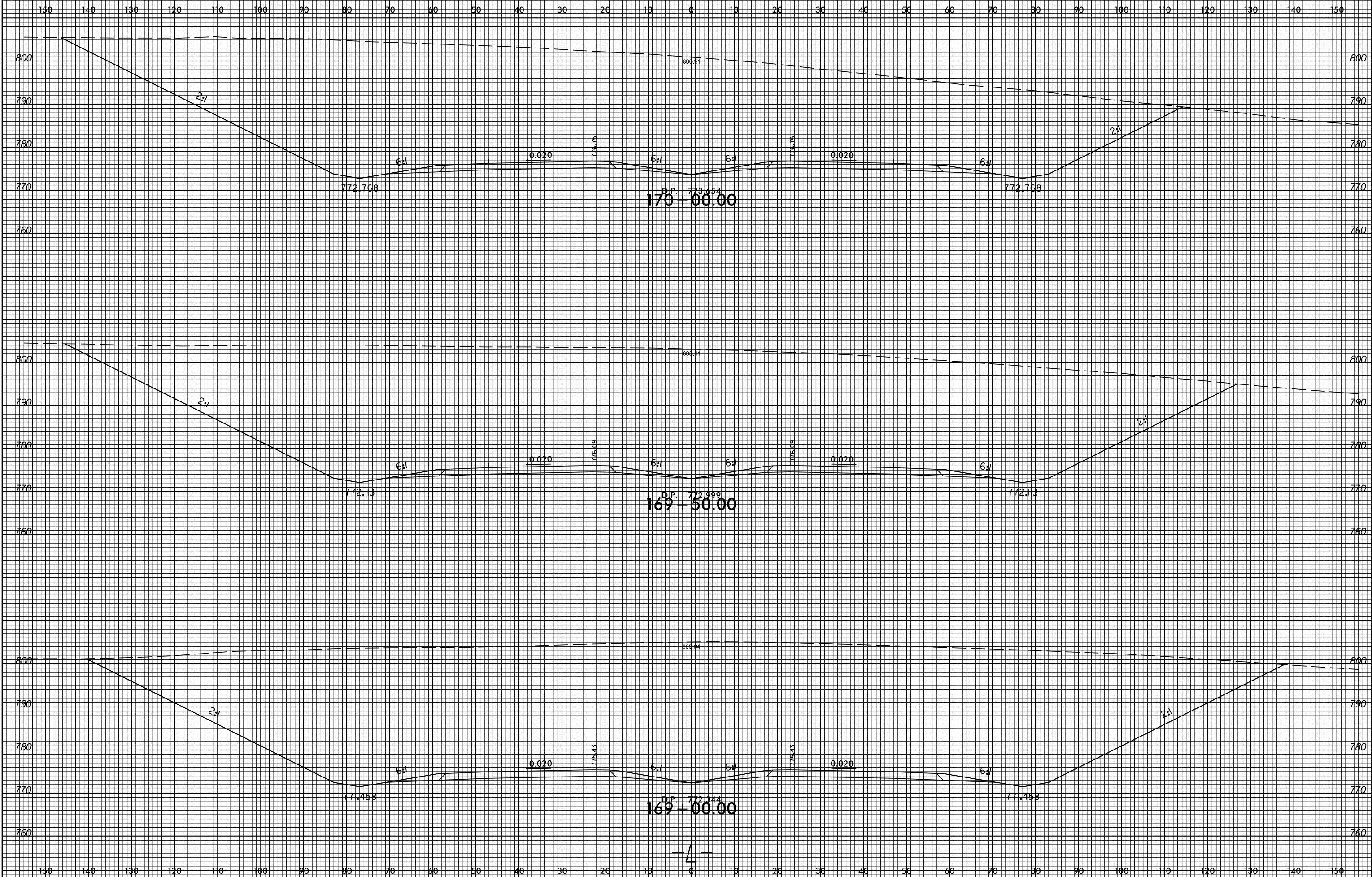


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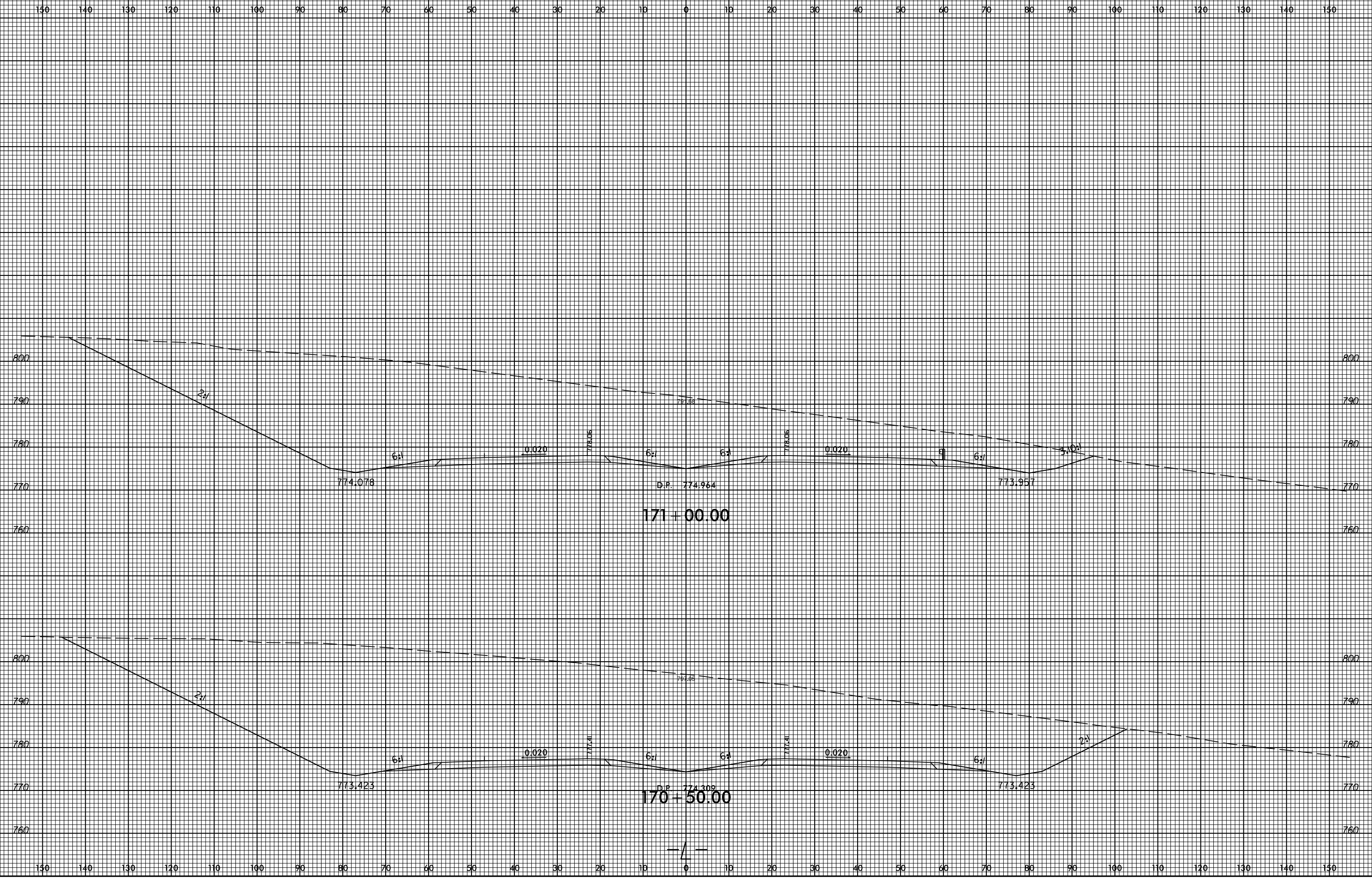


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U-2412A

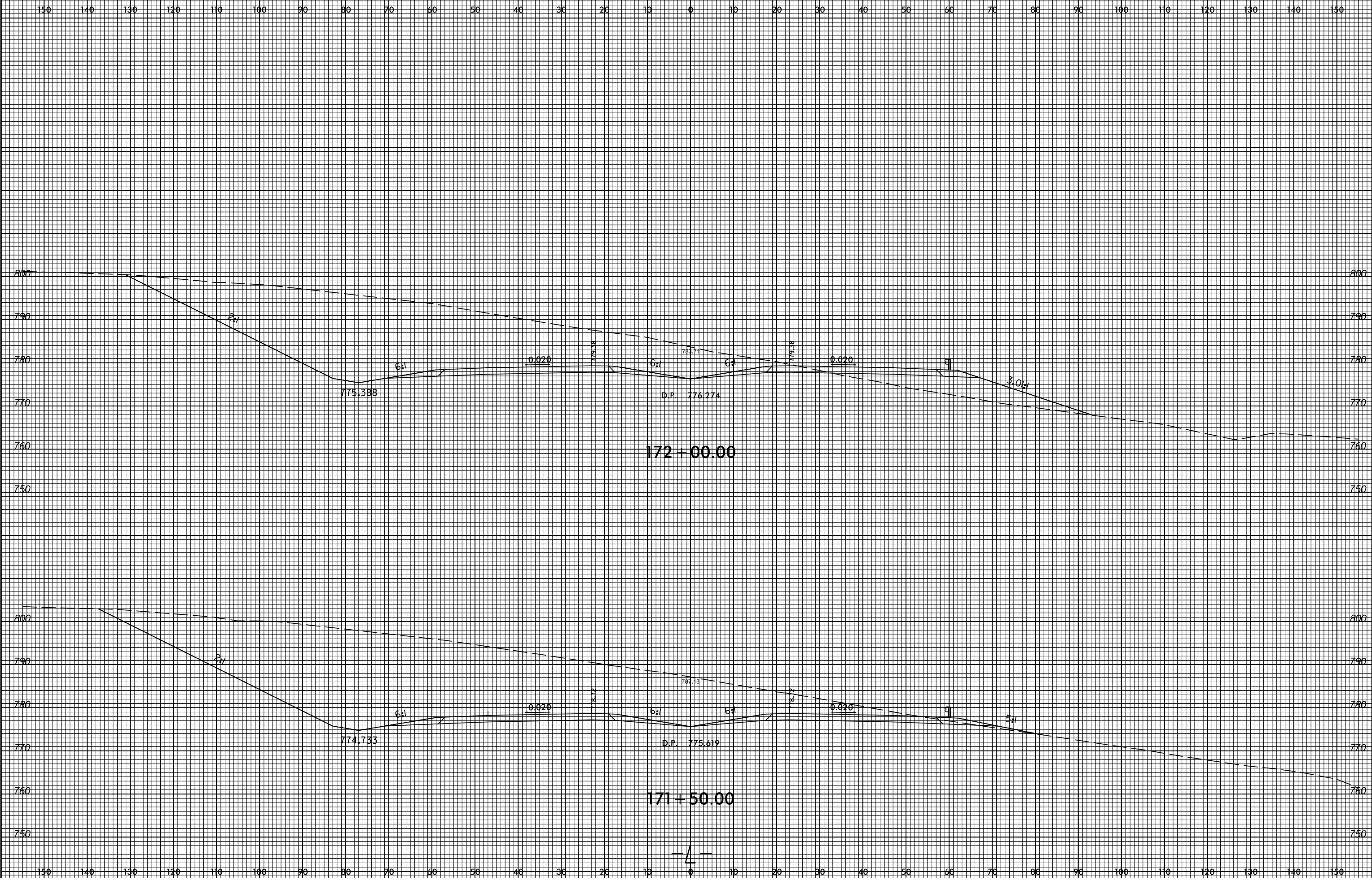
SHEET NO.  
X-105

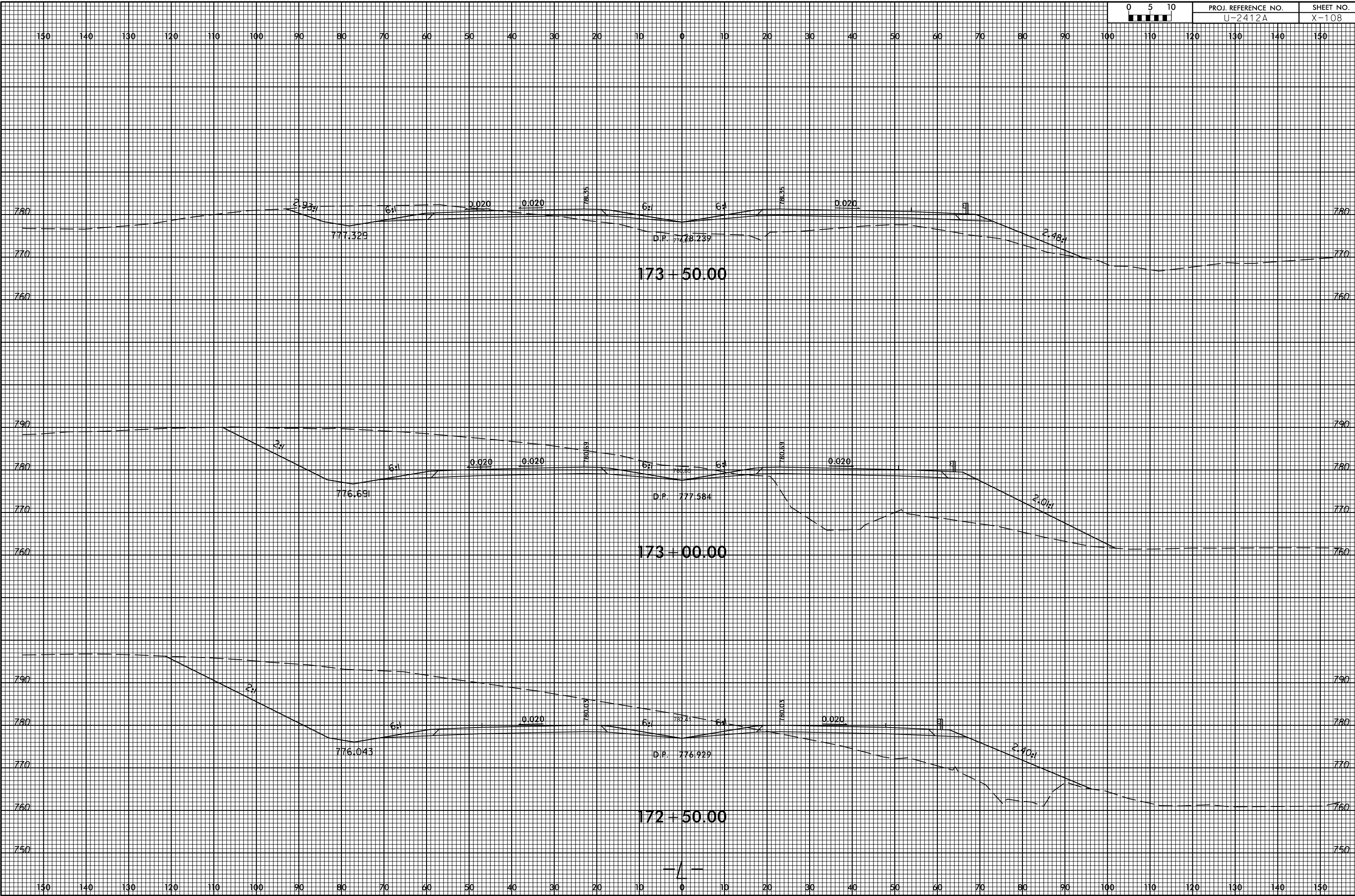


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R1338355







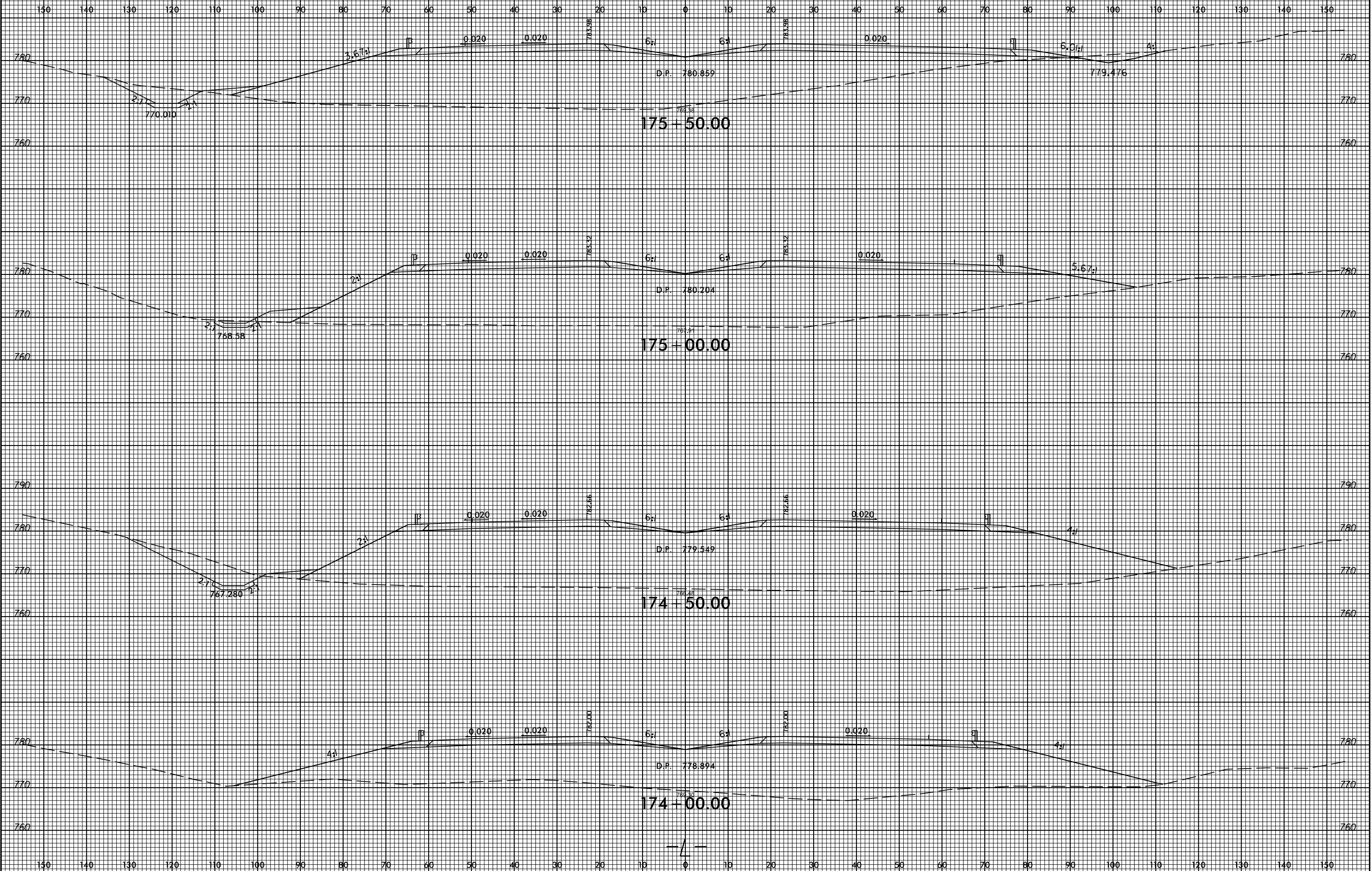


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-109

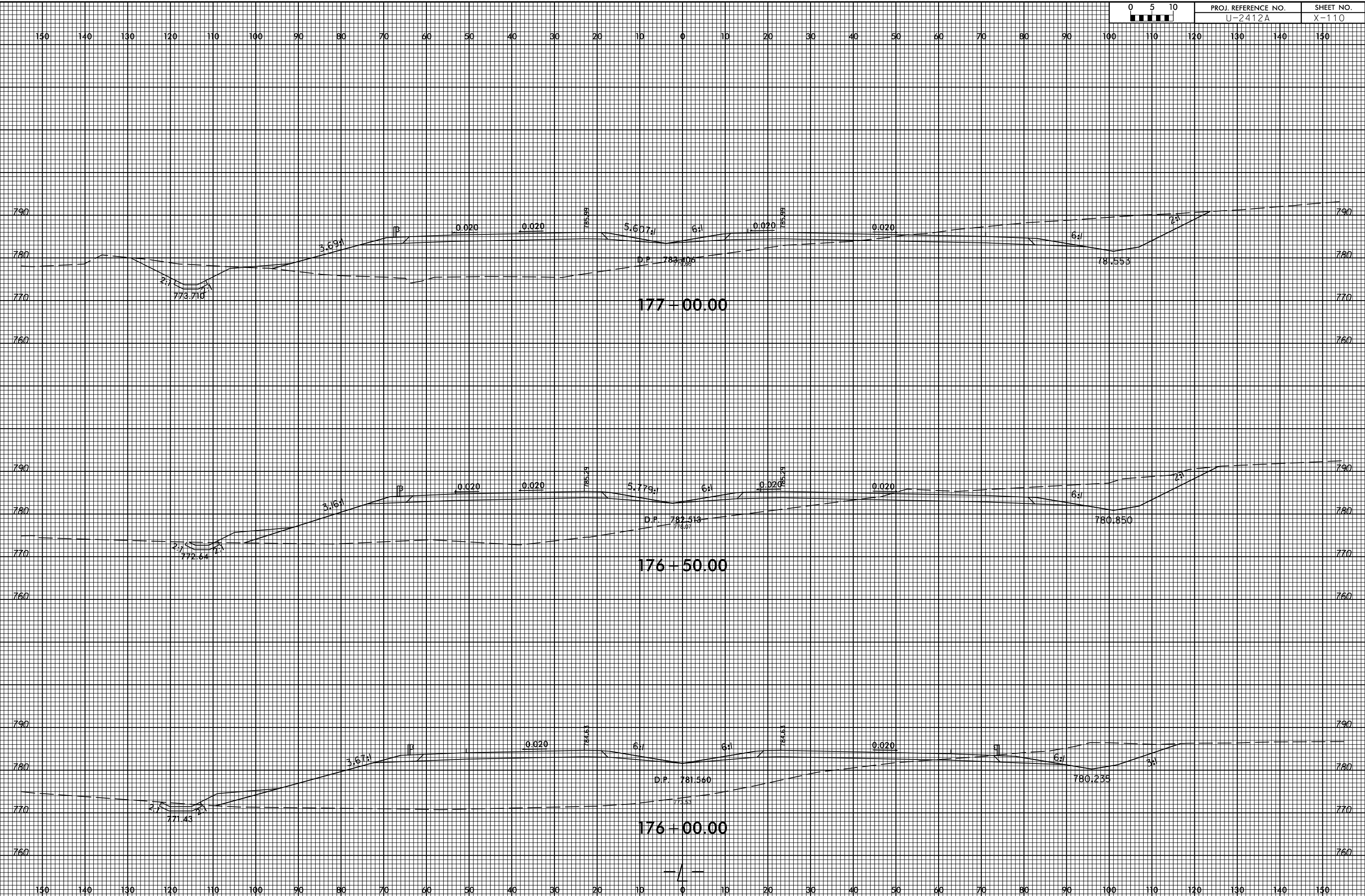


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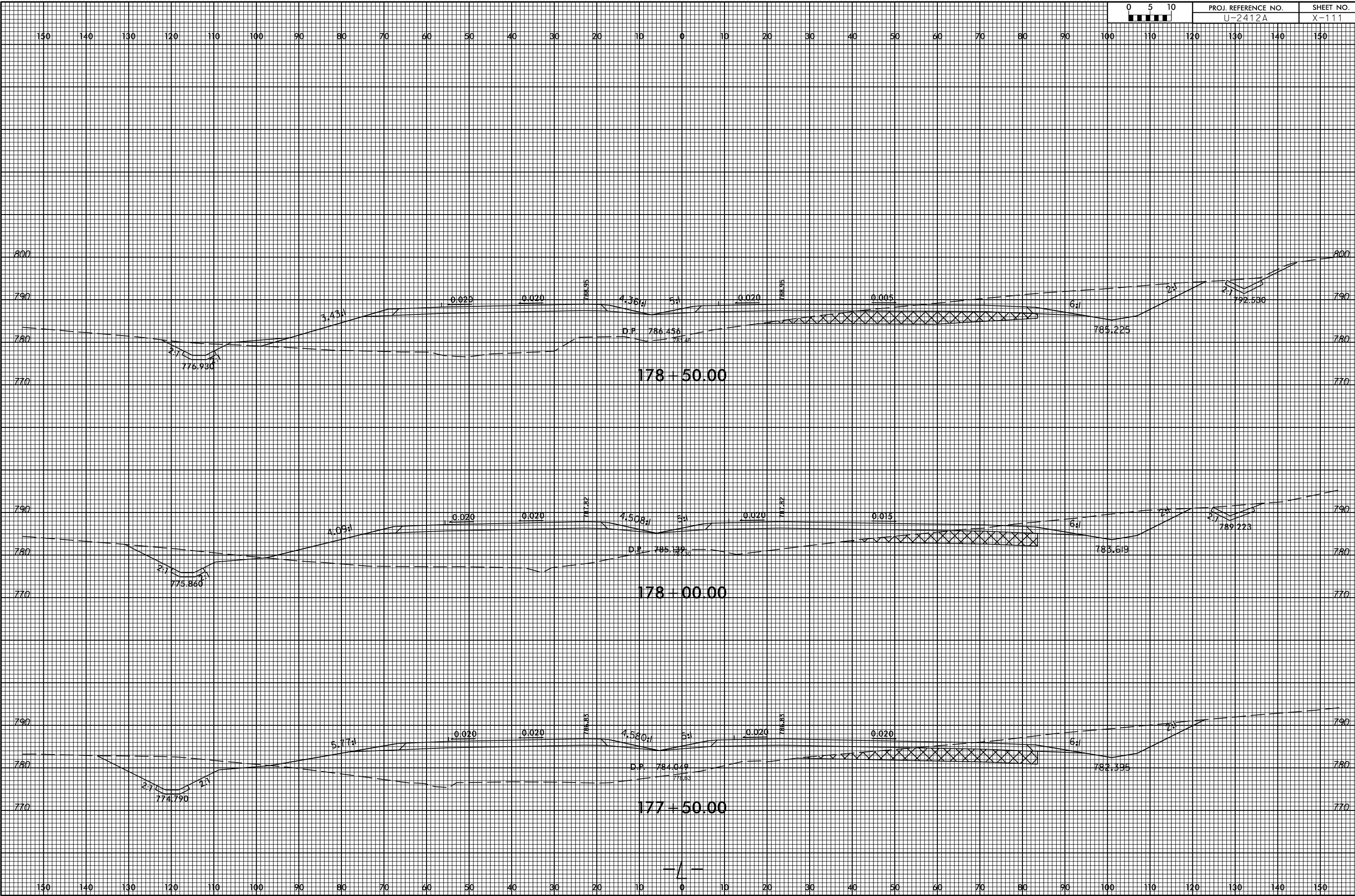
8/23/99



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| PROJ. REFERENCE NO. | SHEET NO. |
| U-2412A             | X-110     |



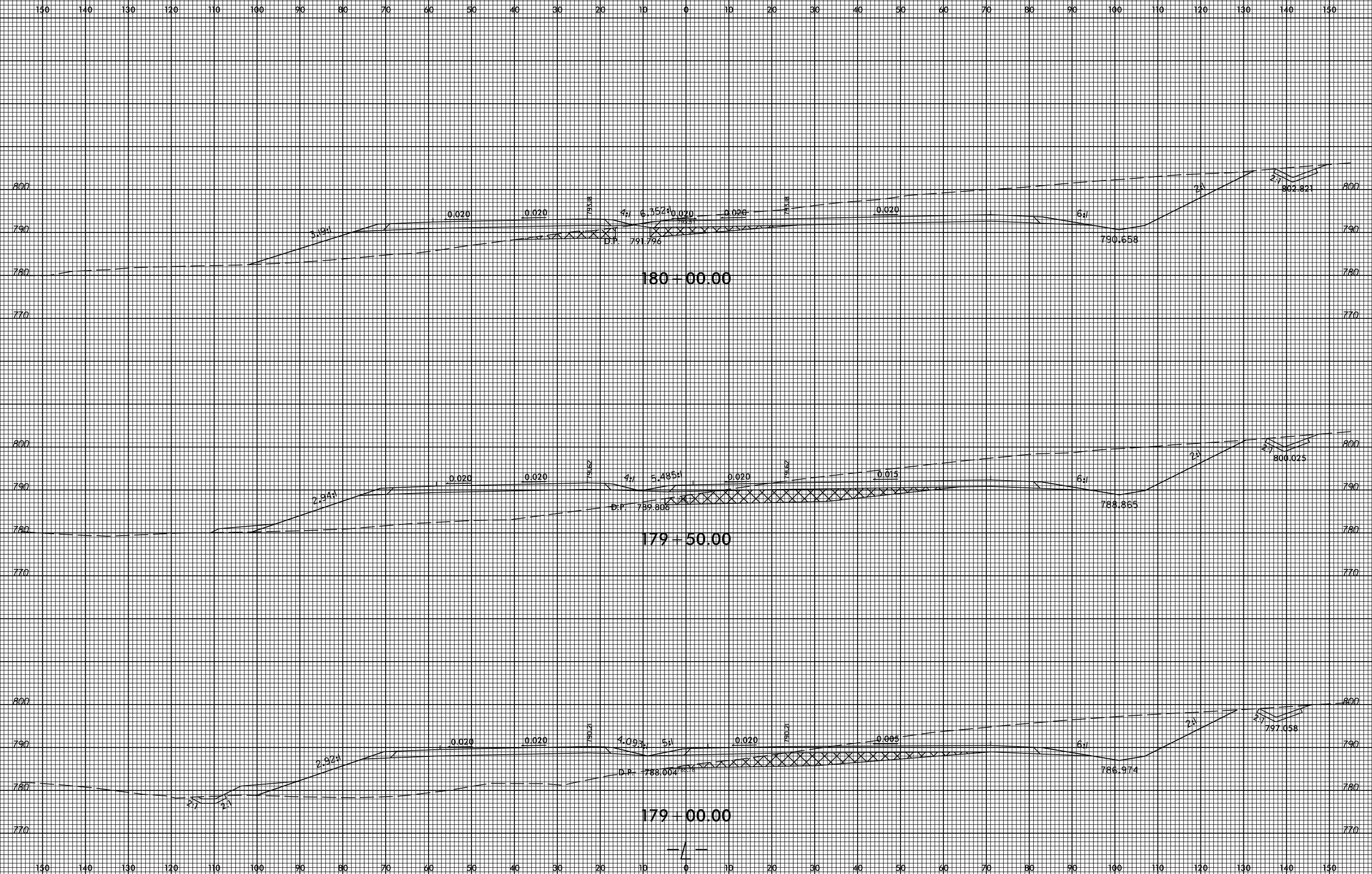
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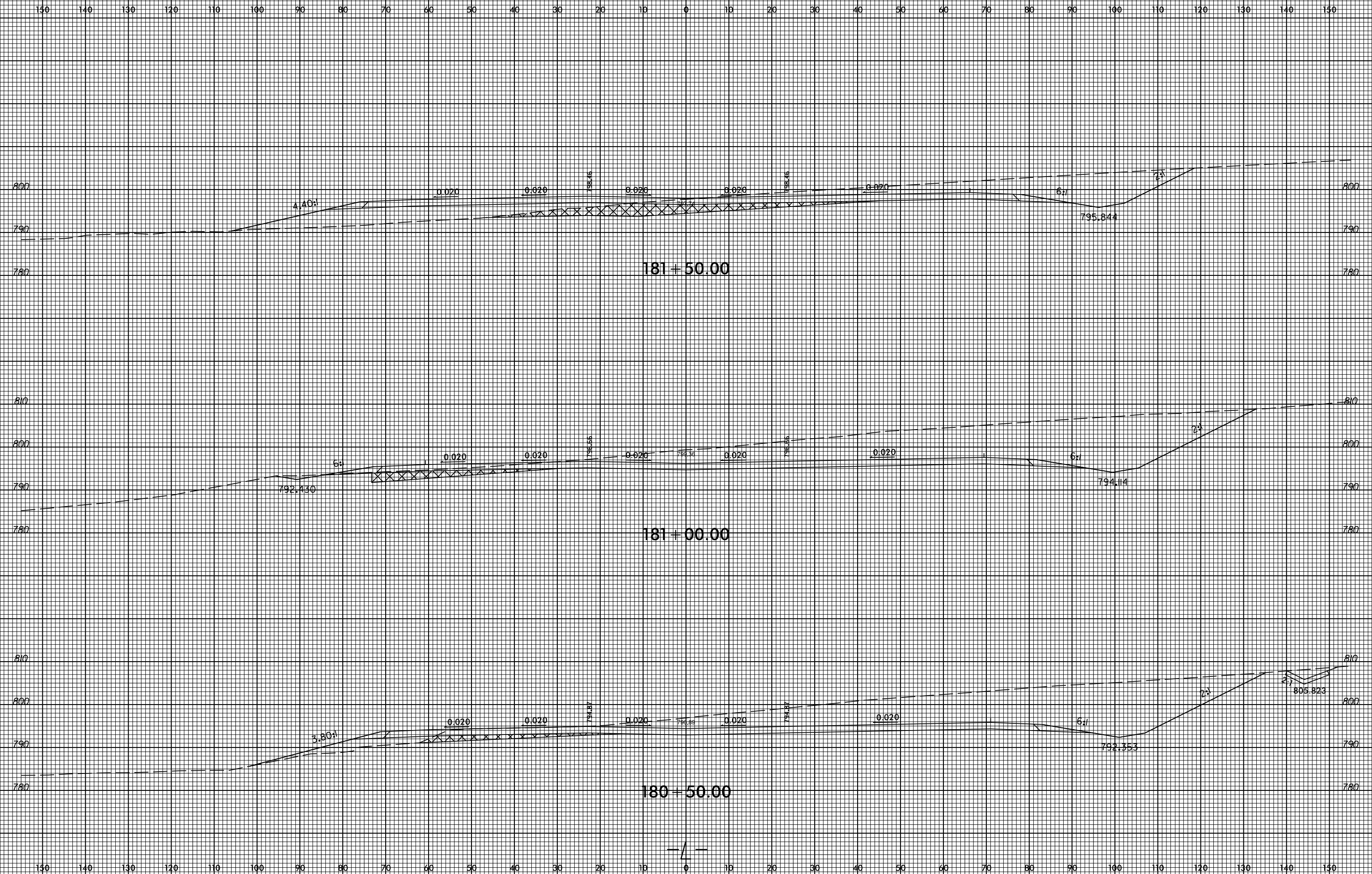
8/23/99

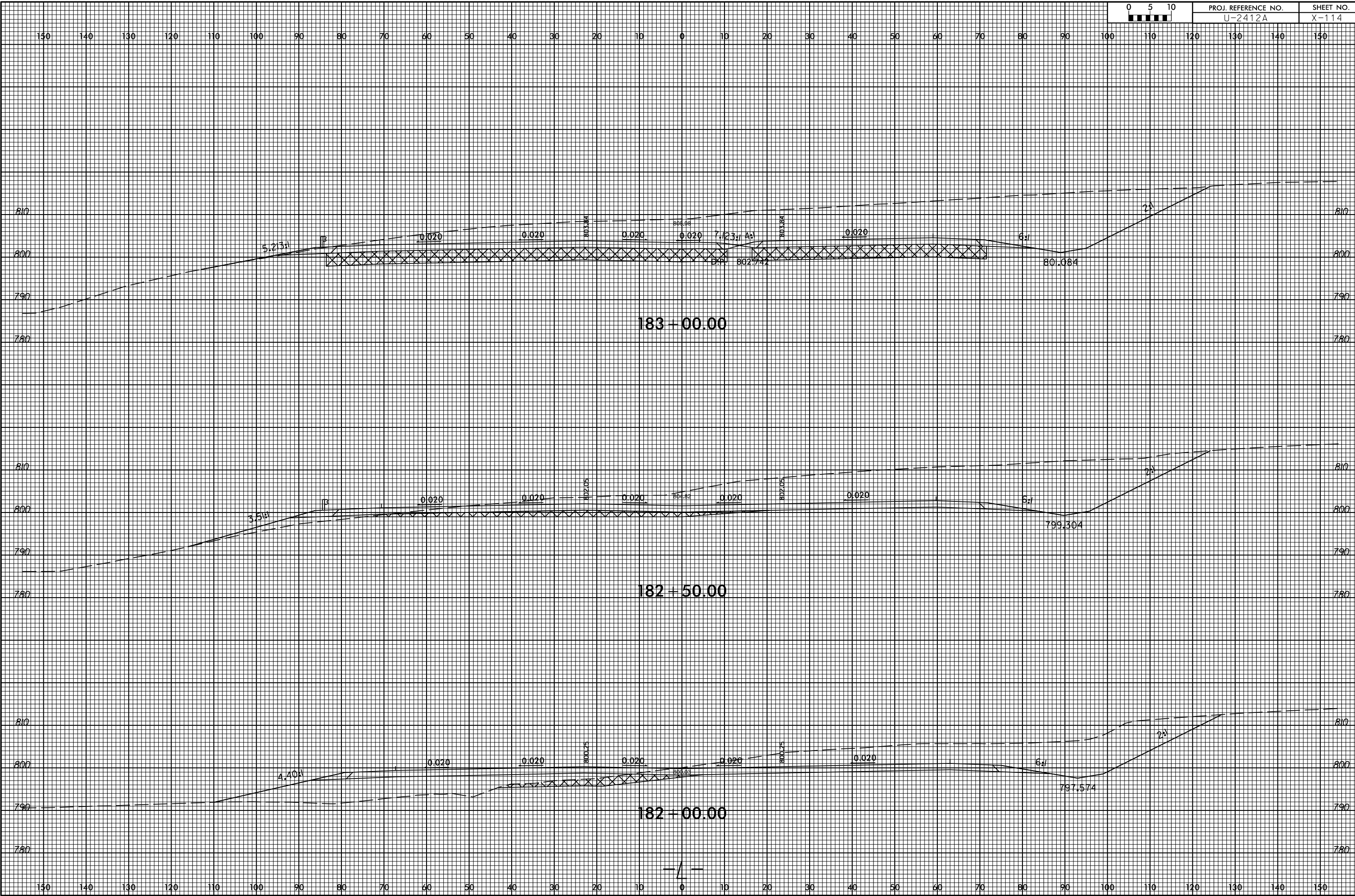


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|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| U-2412A             | X-112     |



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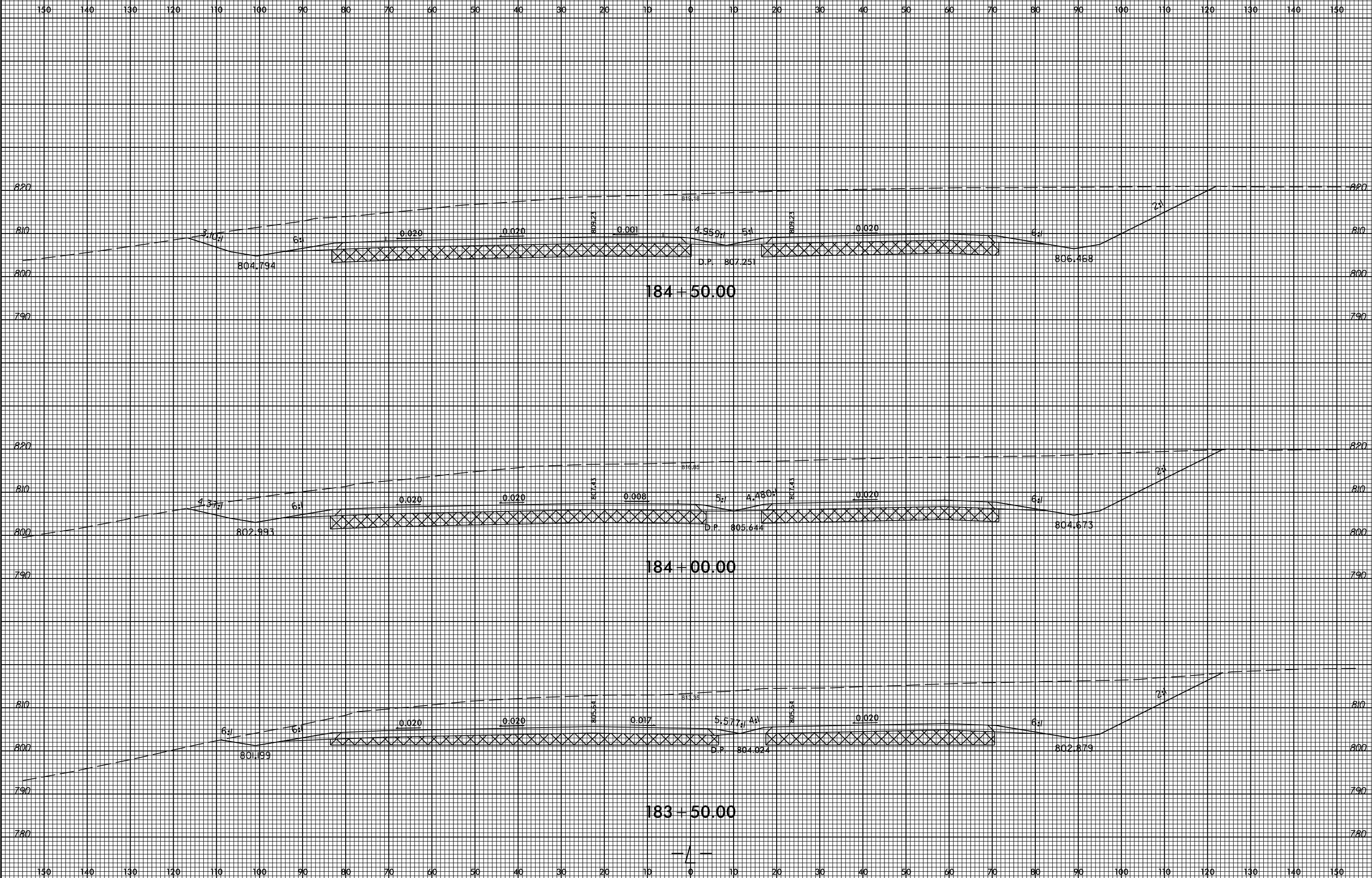


8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-115



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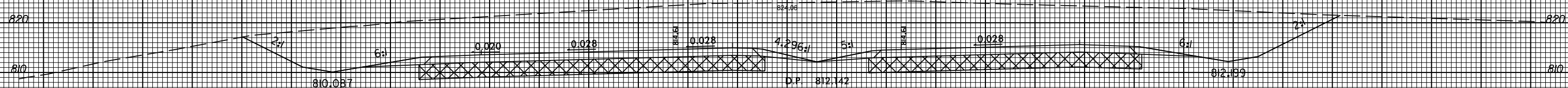
8/23/99



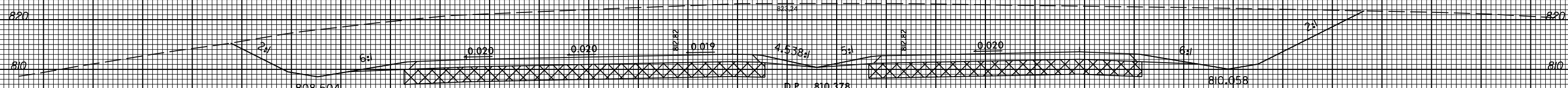
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U-2412A

SHEET NO.  
X-116

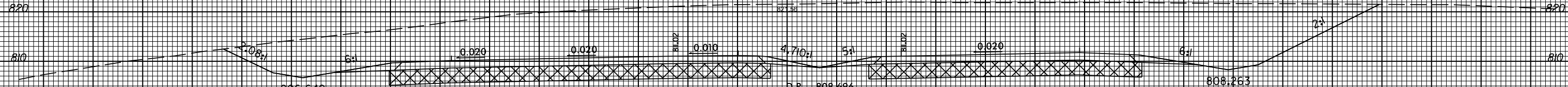
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186+00.00



185+50.00



185+00.00

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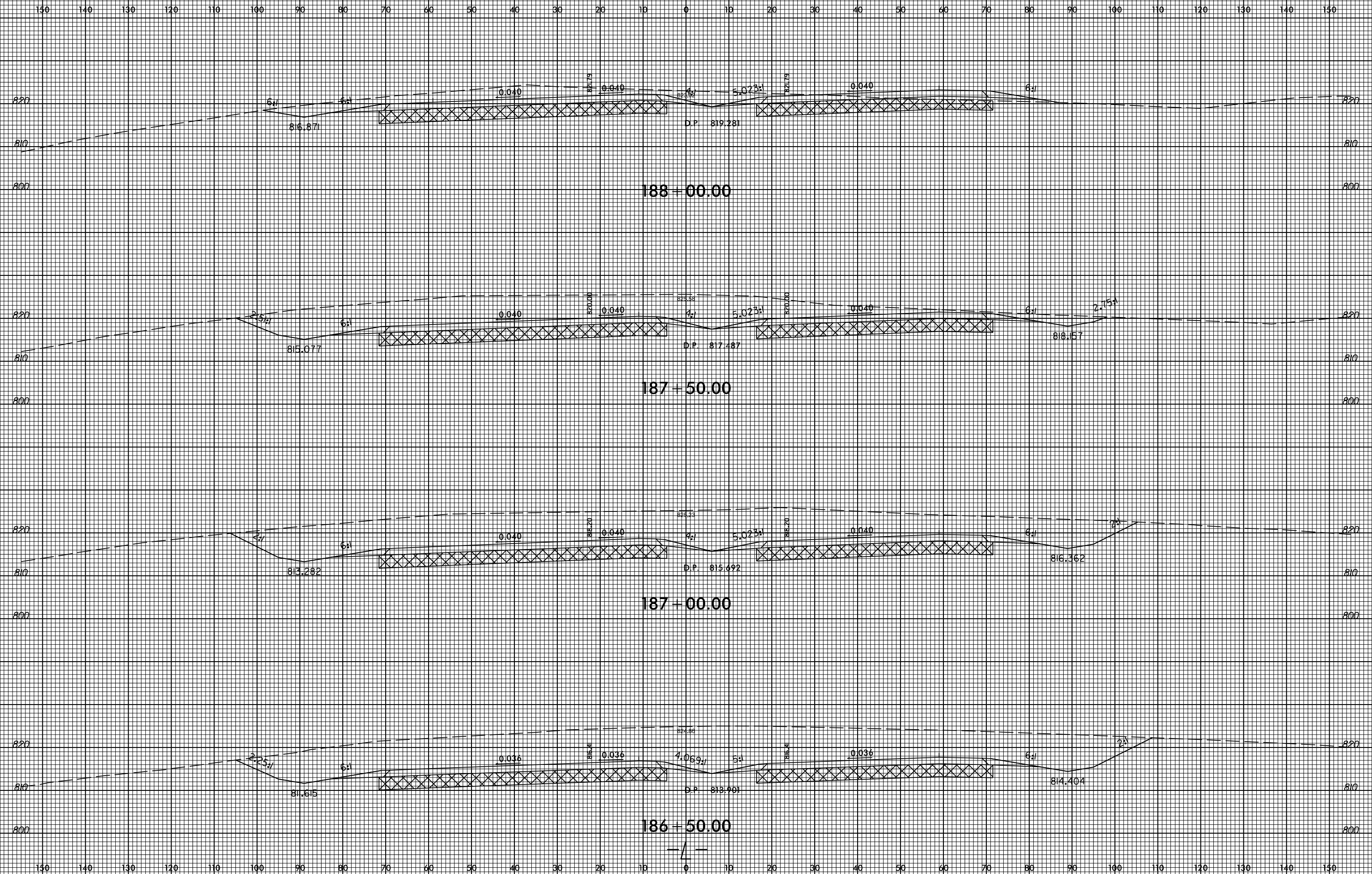
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8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-117



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P1338355

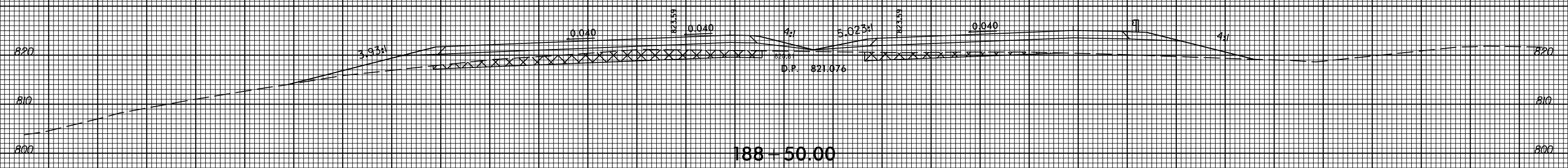
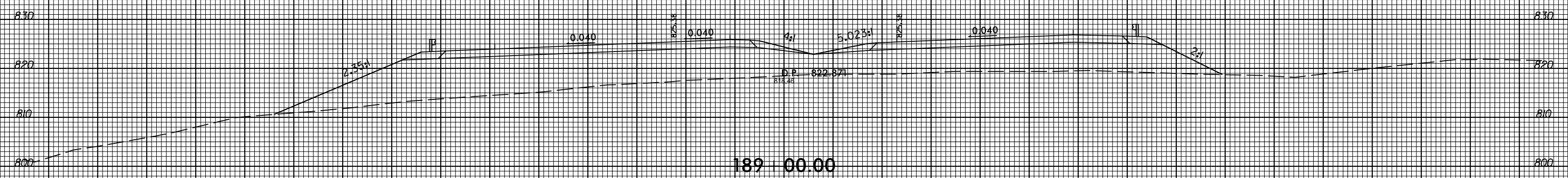
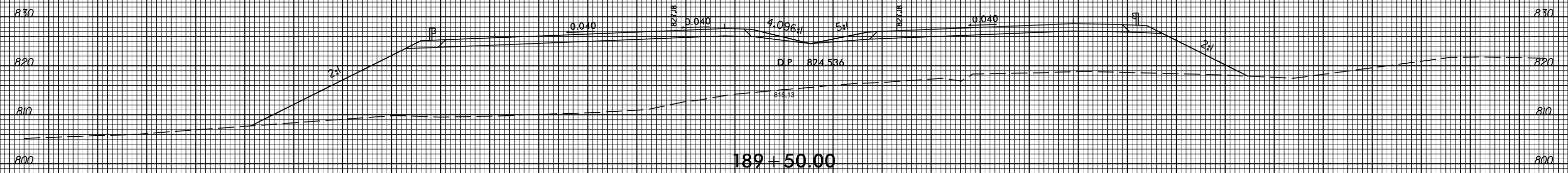
8/23/99



PROJ. REFERENCE NO.  
U-2412A

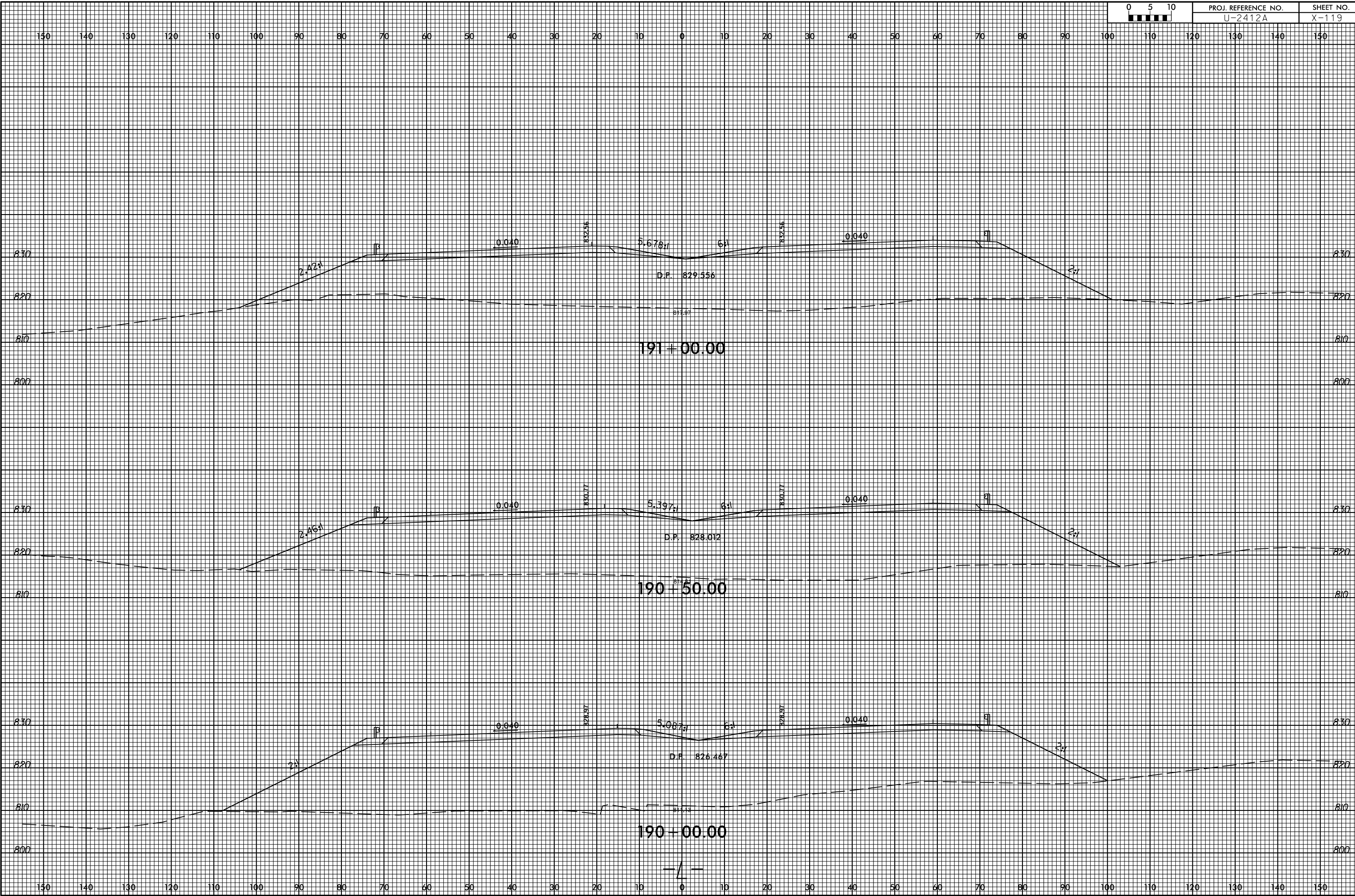
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X-118

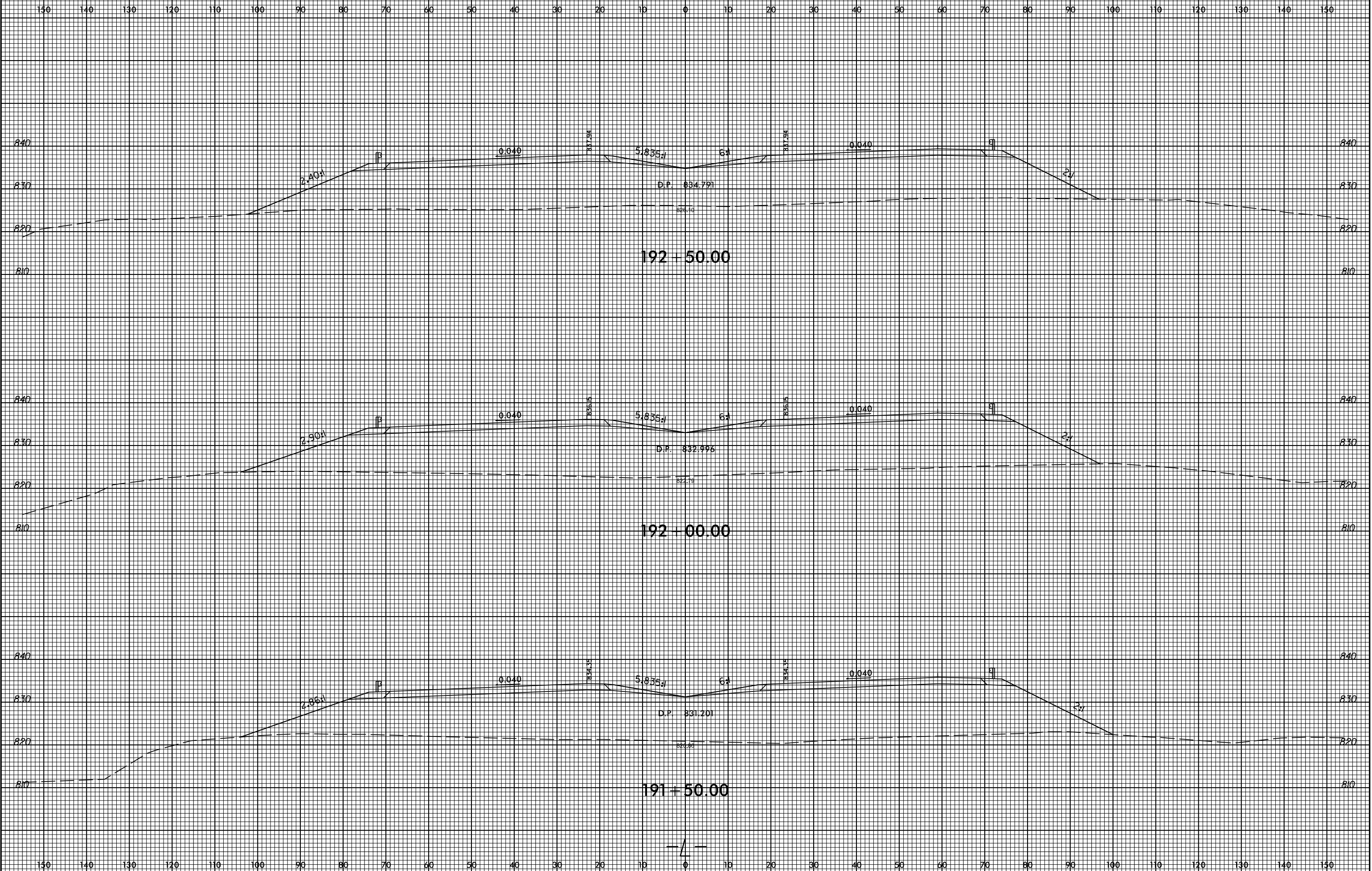
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P1338355



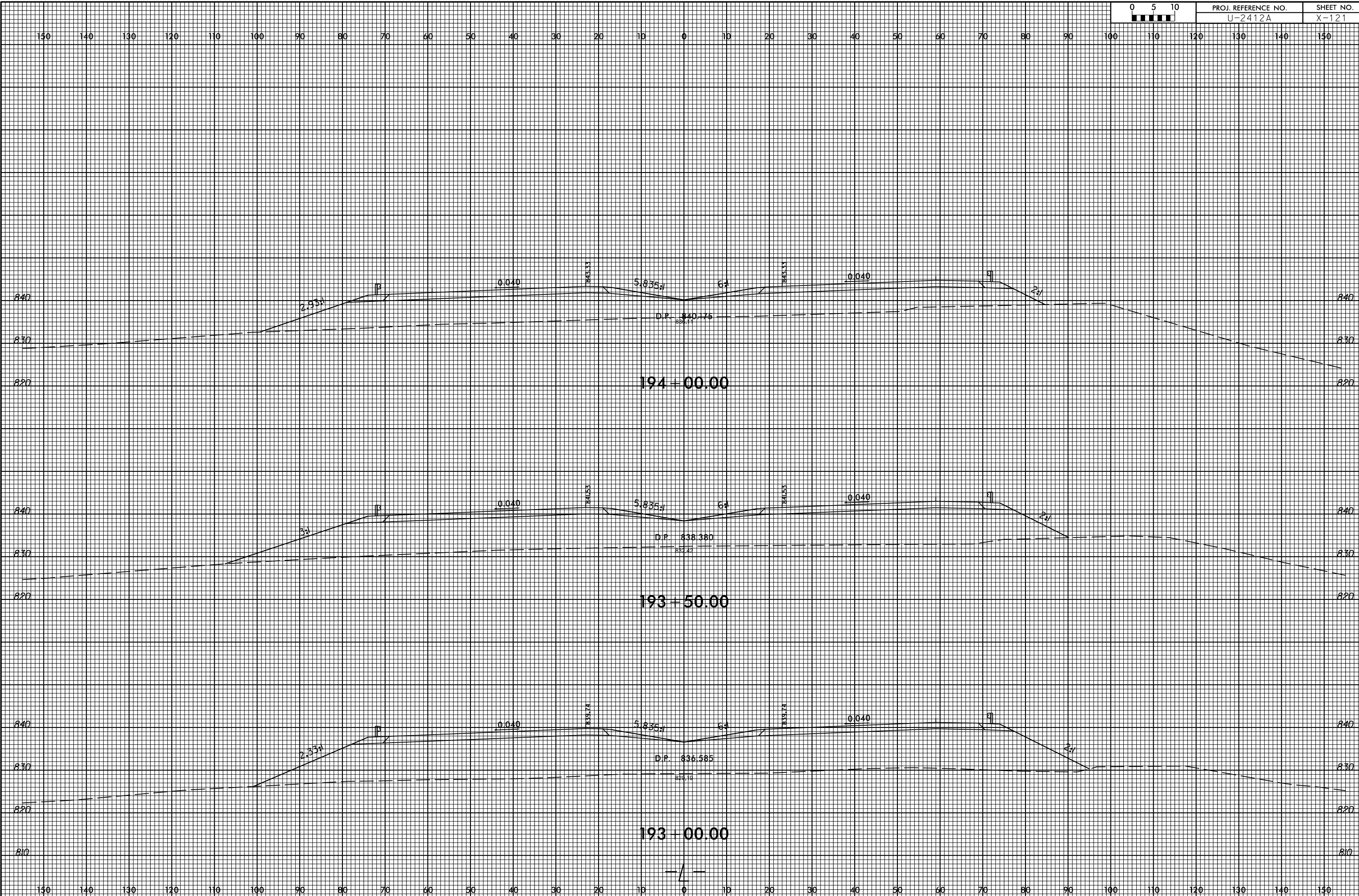


8/23/99



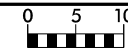
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U-2412A

SHEET NO.  
X-121



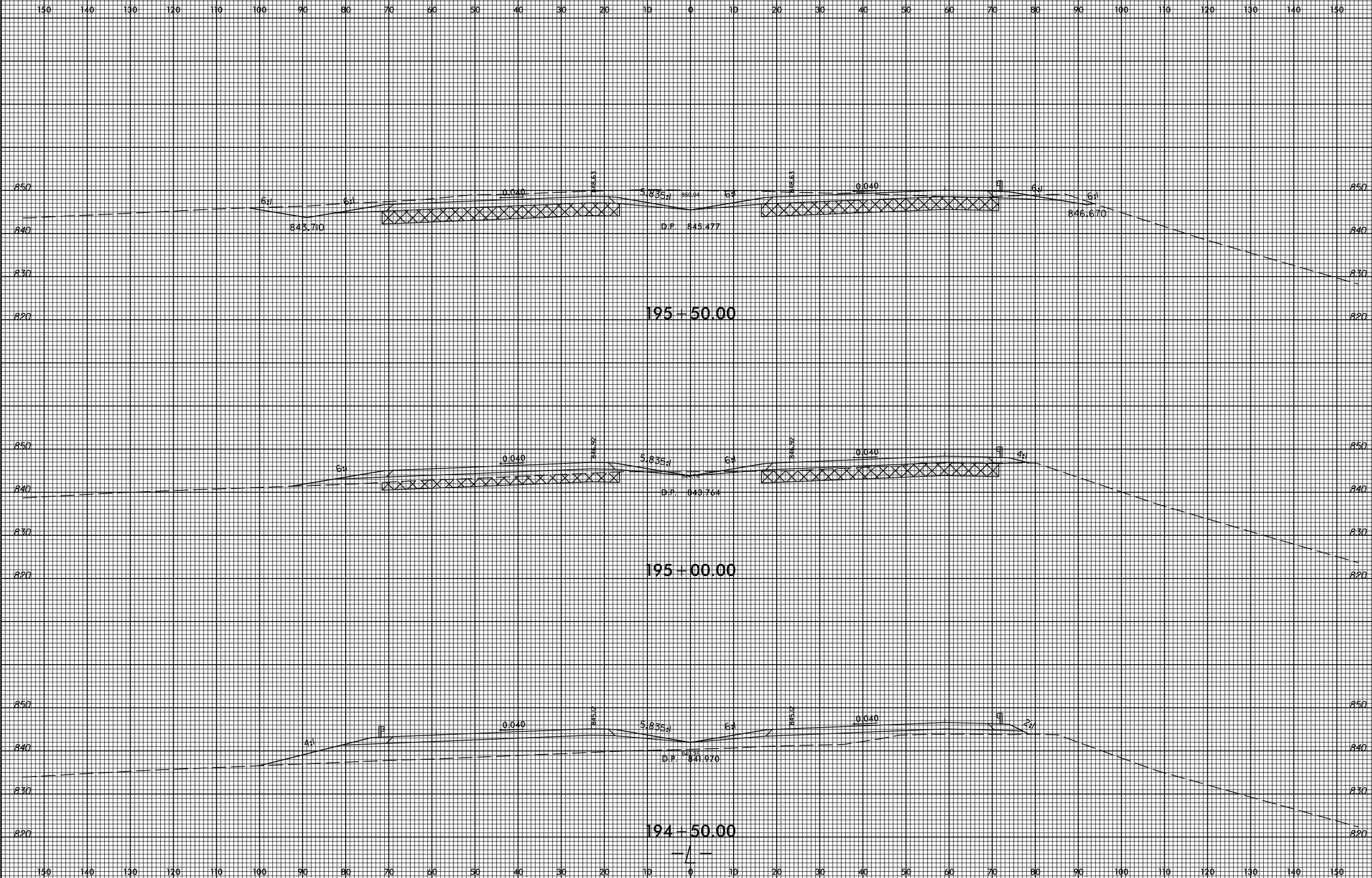
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P1338355

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-122



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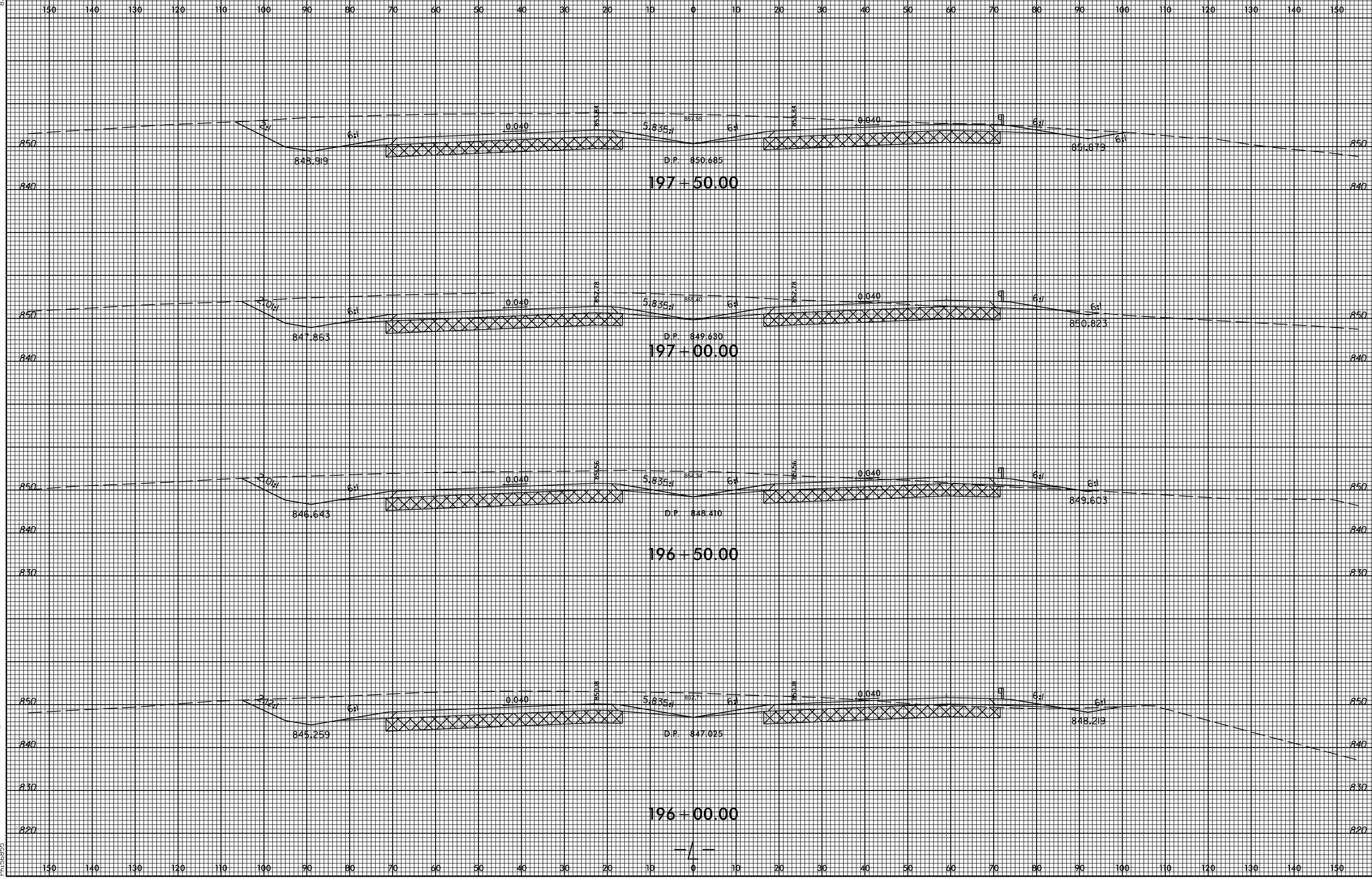


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PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-123

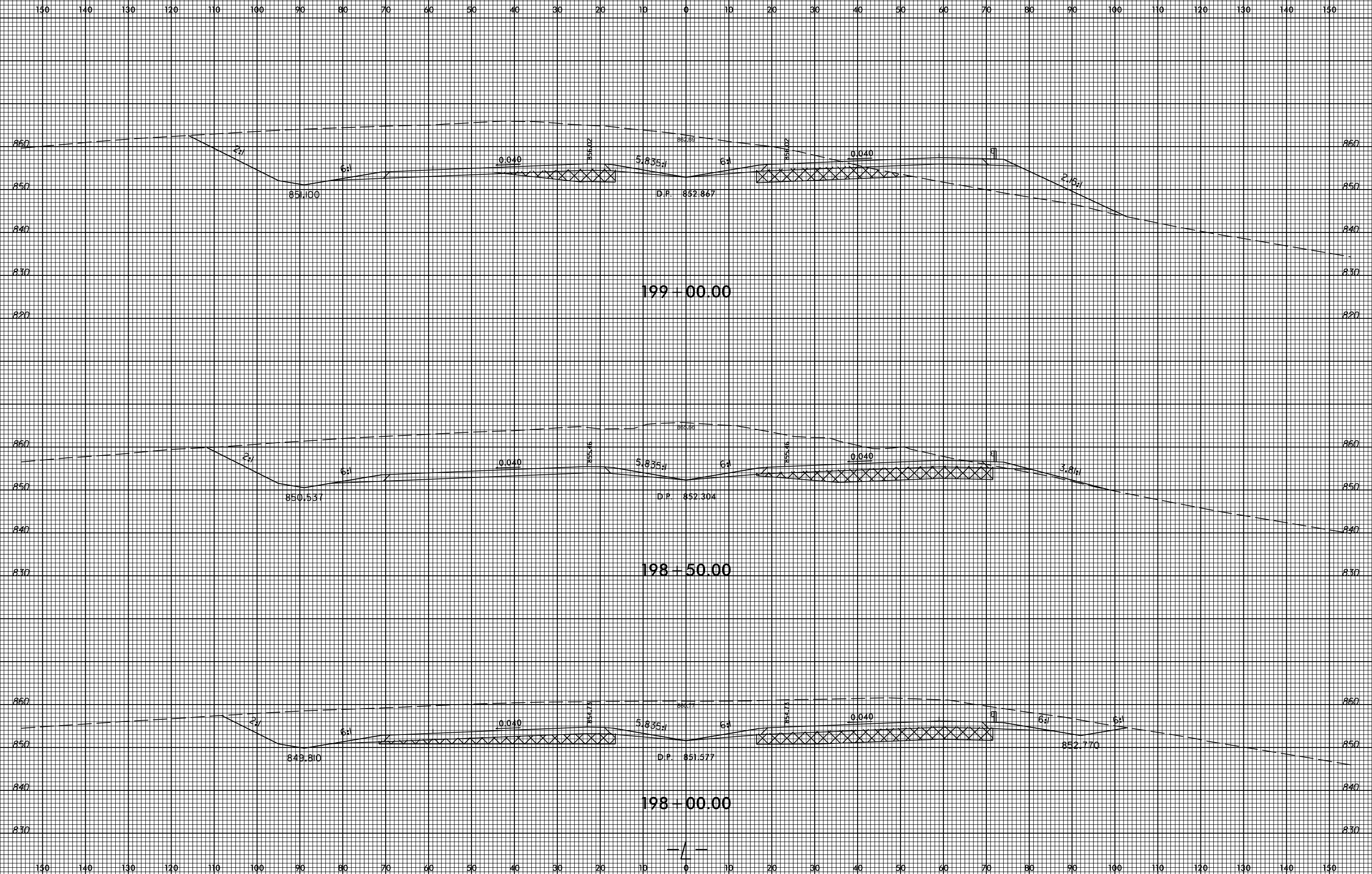


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7/13/99

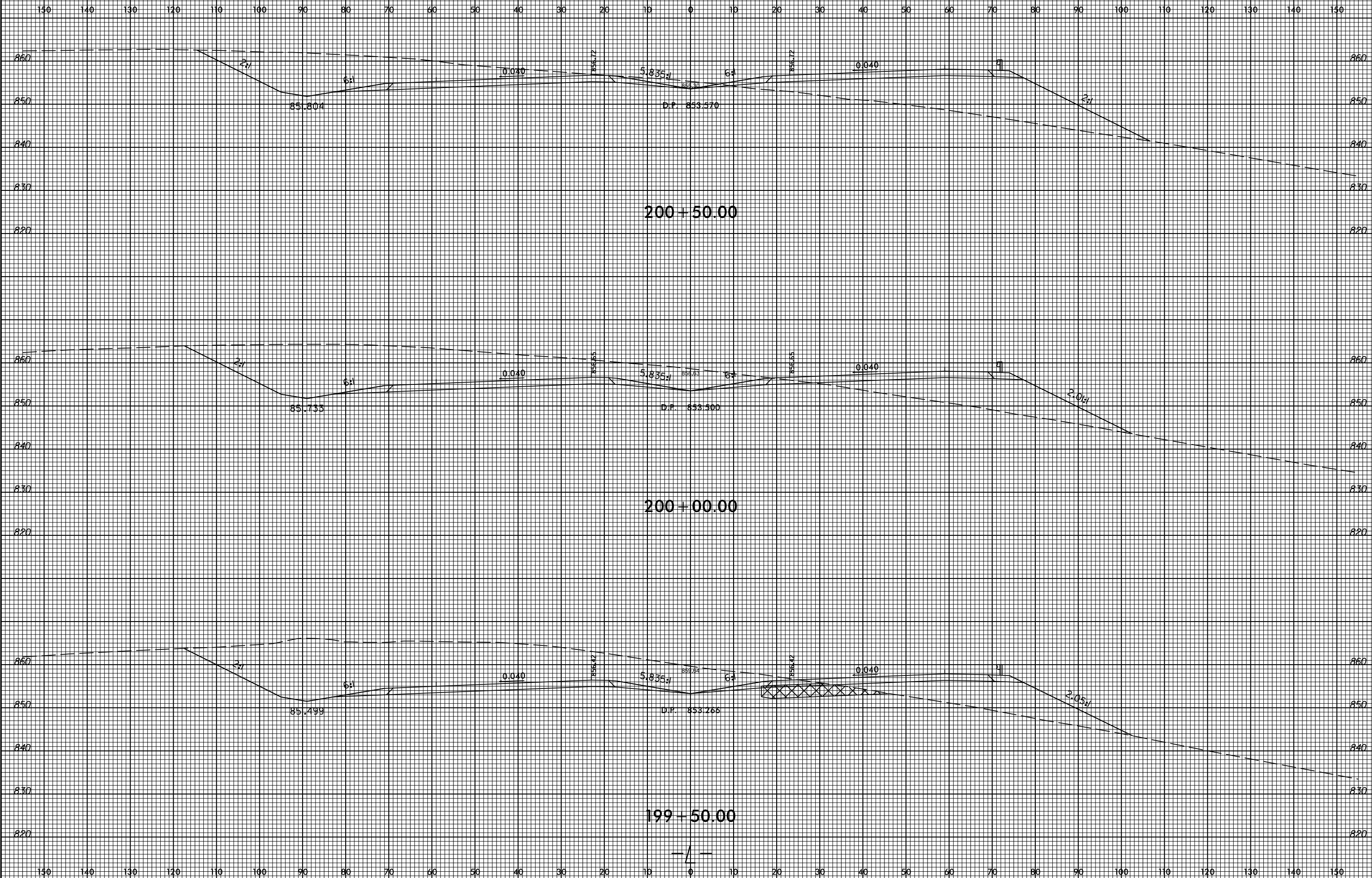
8/23/99



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|---------------------|-----------|
| PROJ. REFERENCE NO. | SHEET NO. |
| U-2412A             | X-124     |



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P133855



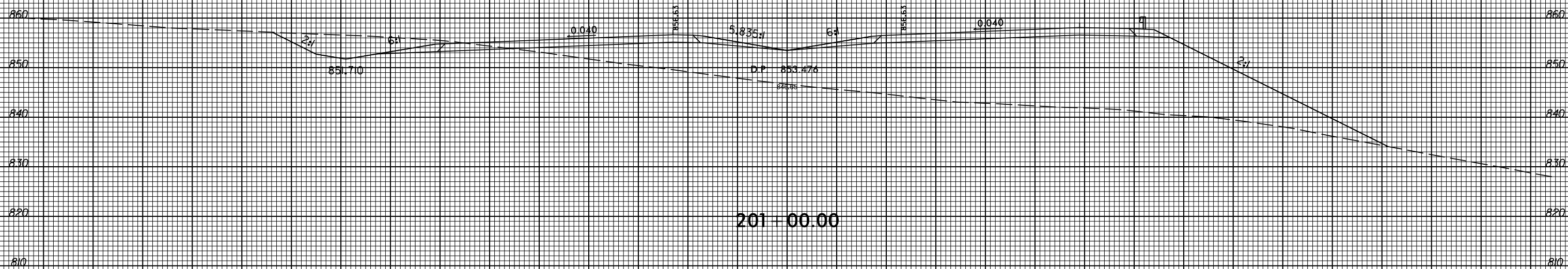
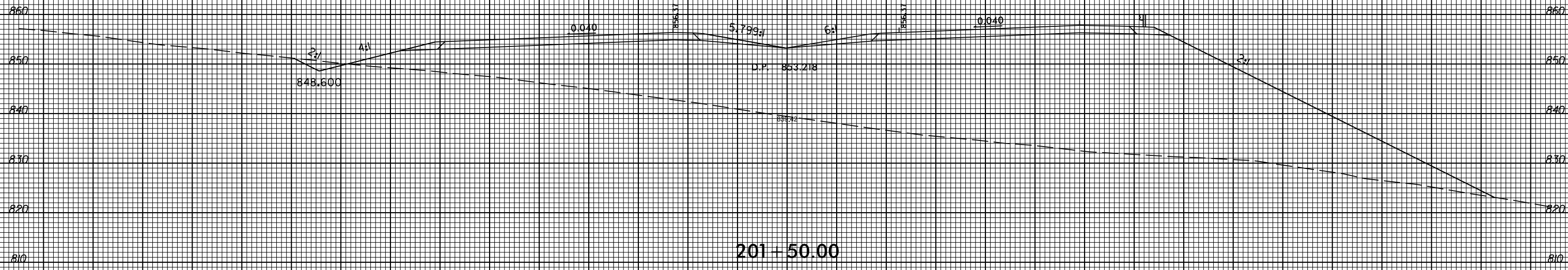
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-126

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P138355

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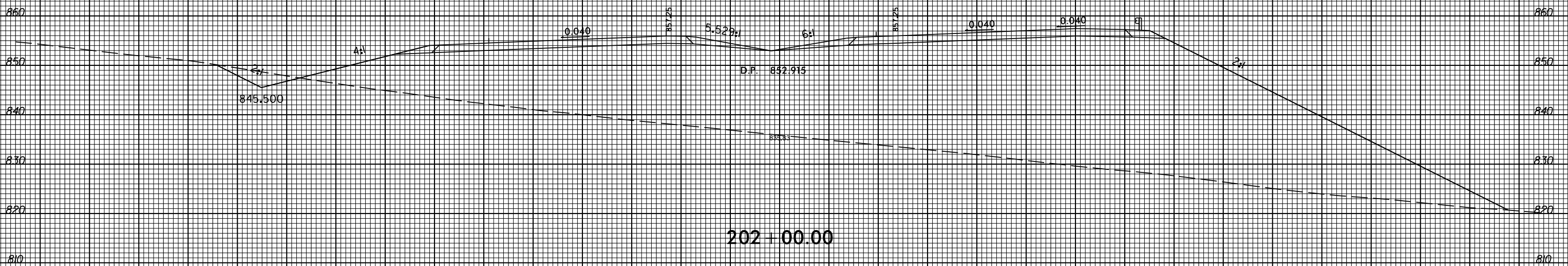
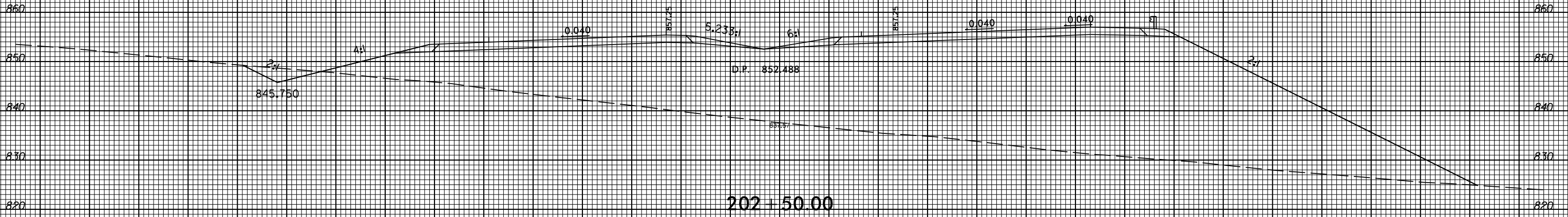
8/23/99



PROJ. REFERENCE NO.  
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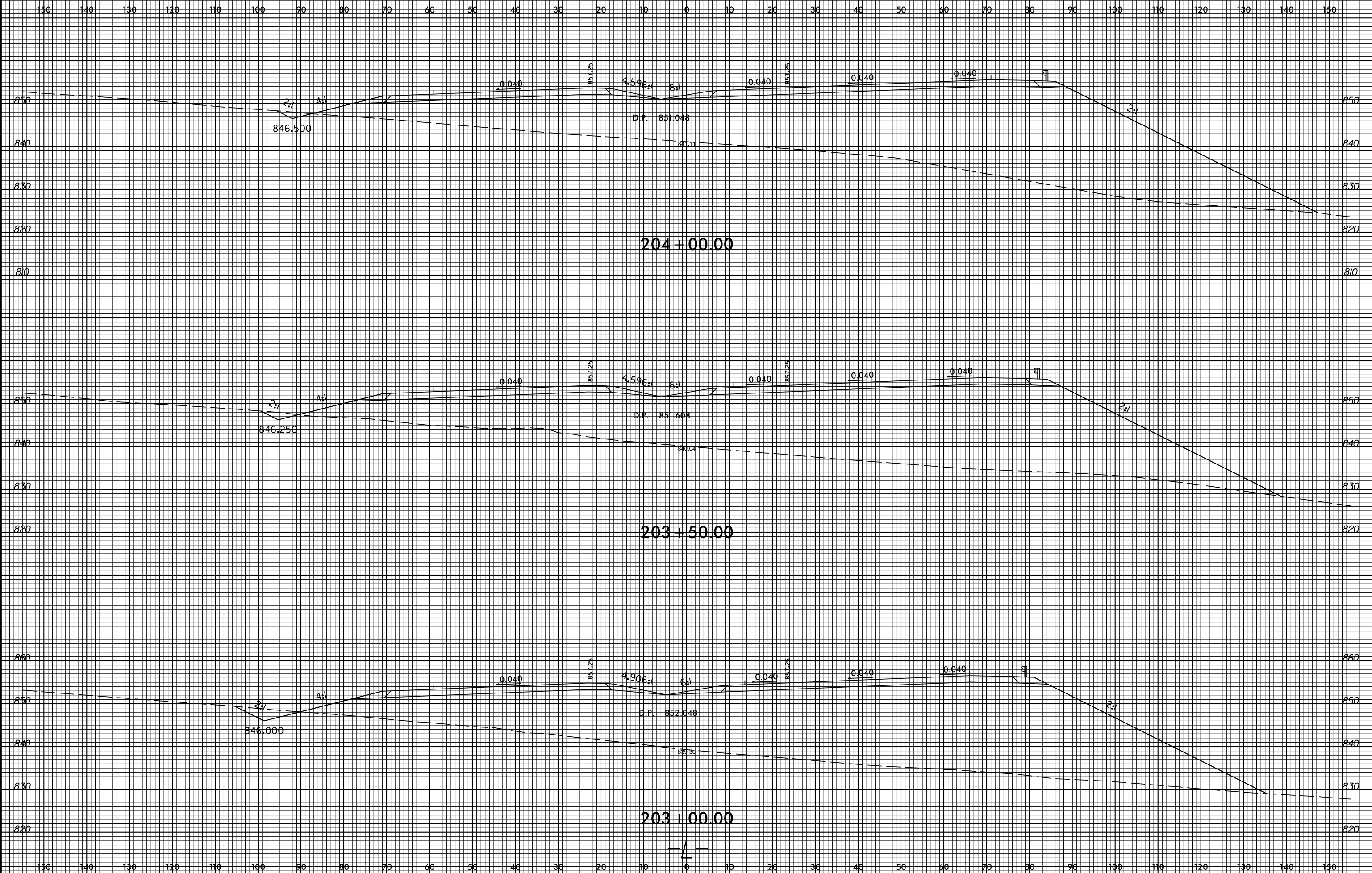
SHEET NO.  
X-127

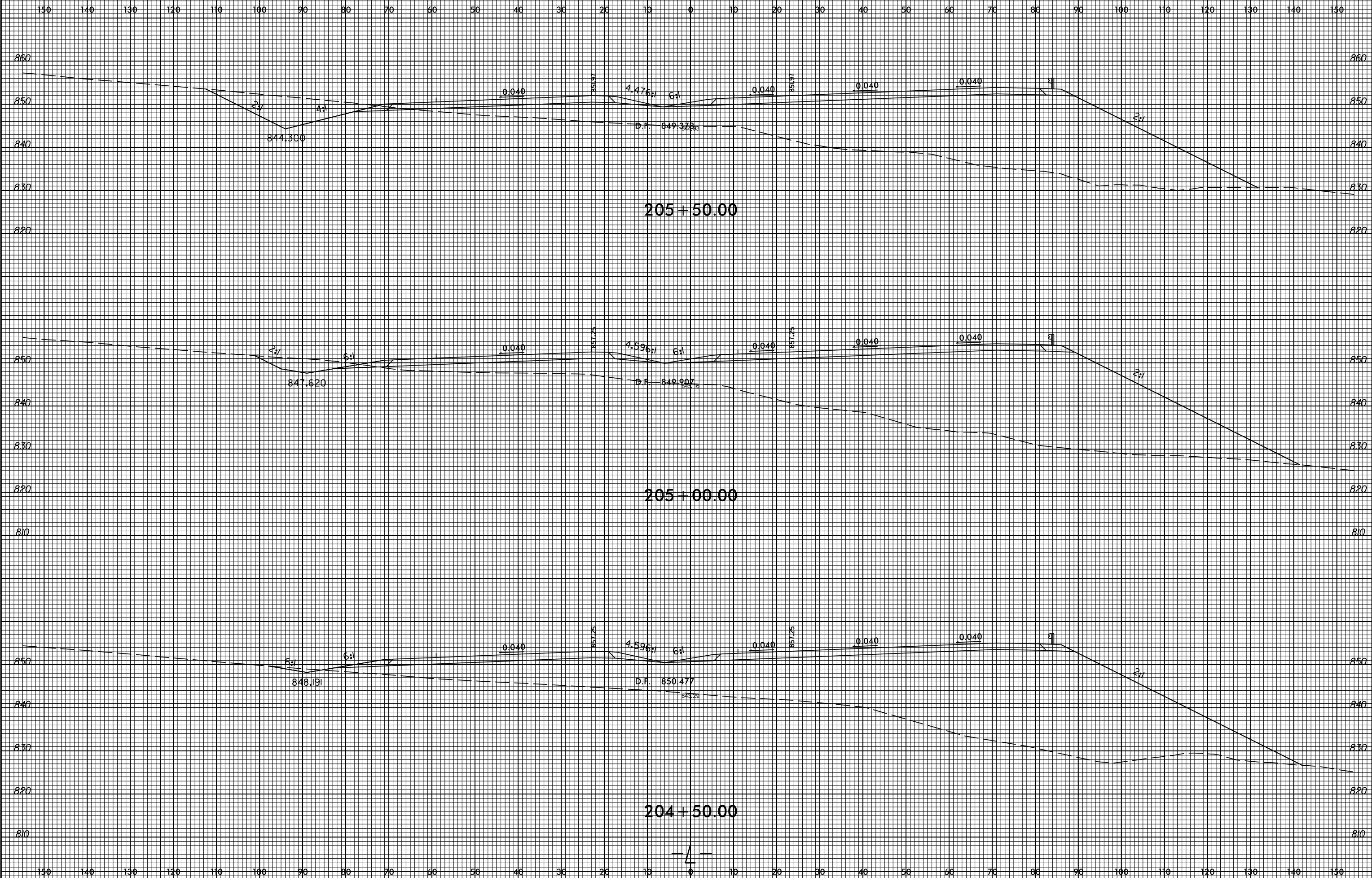
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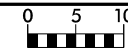
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P138355



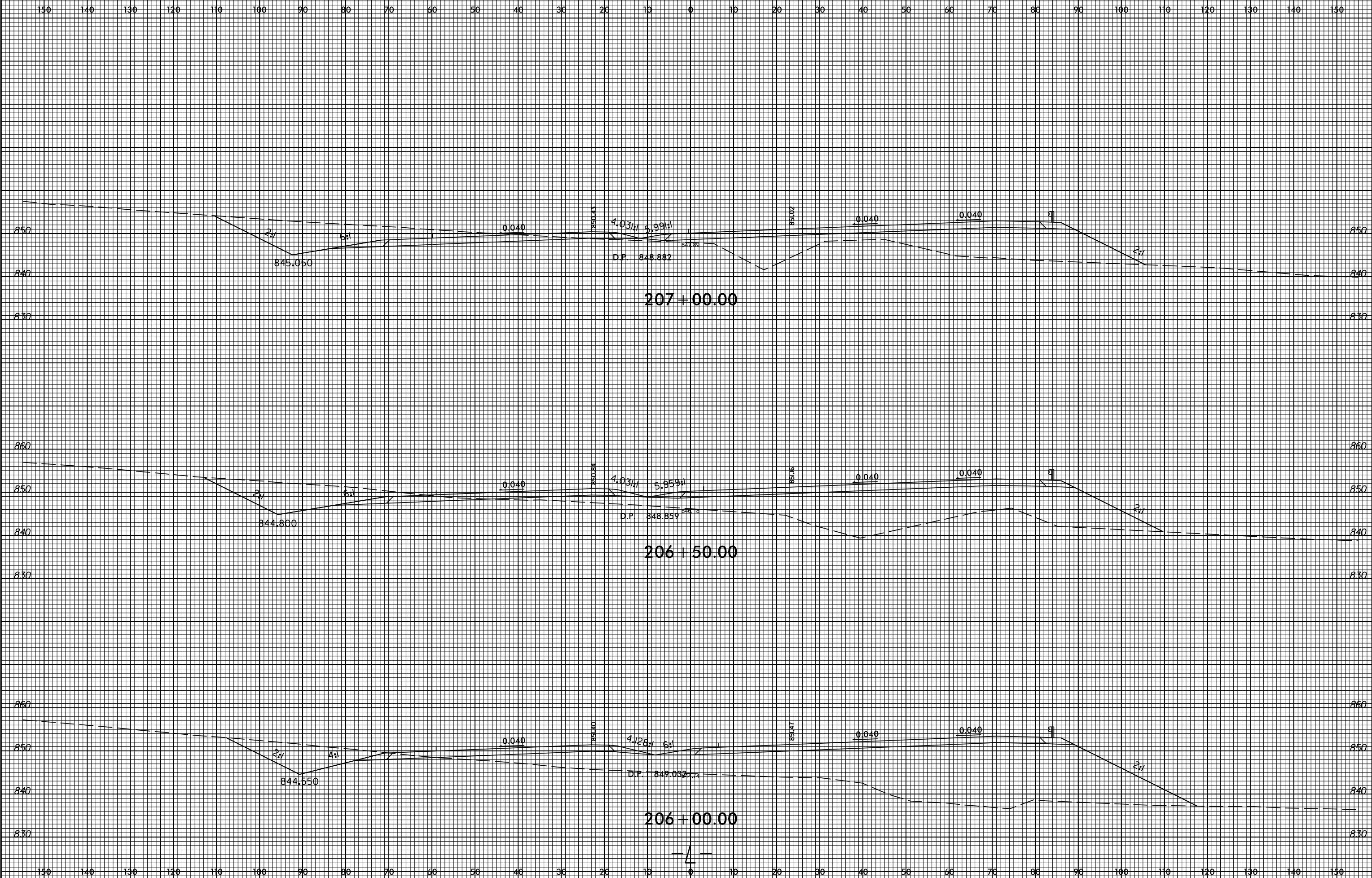


8/23/99



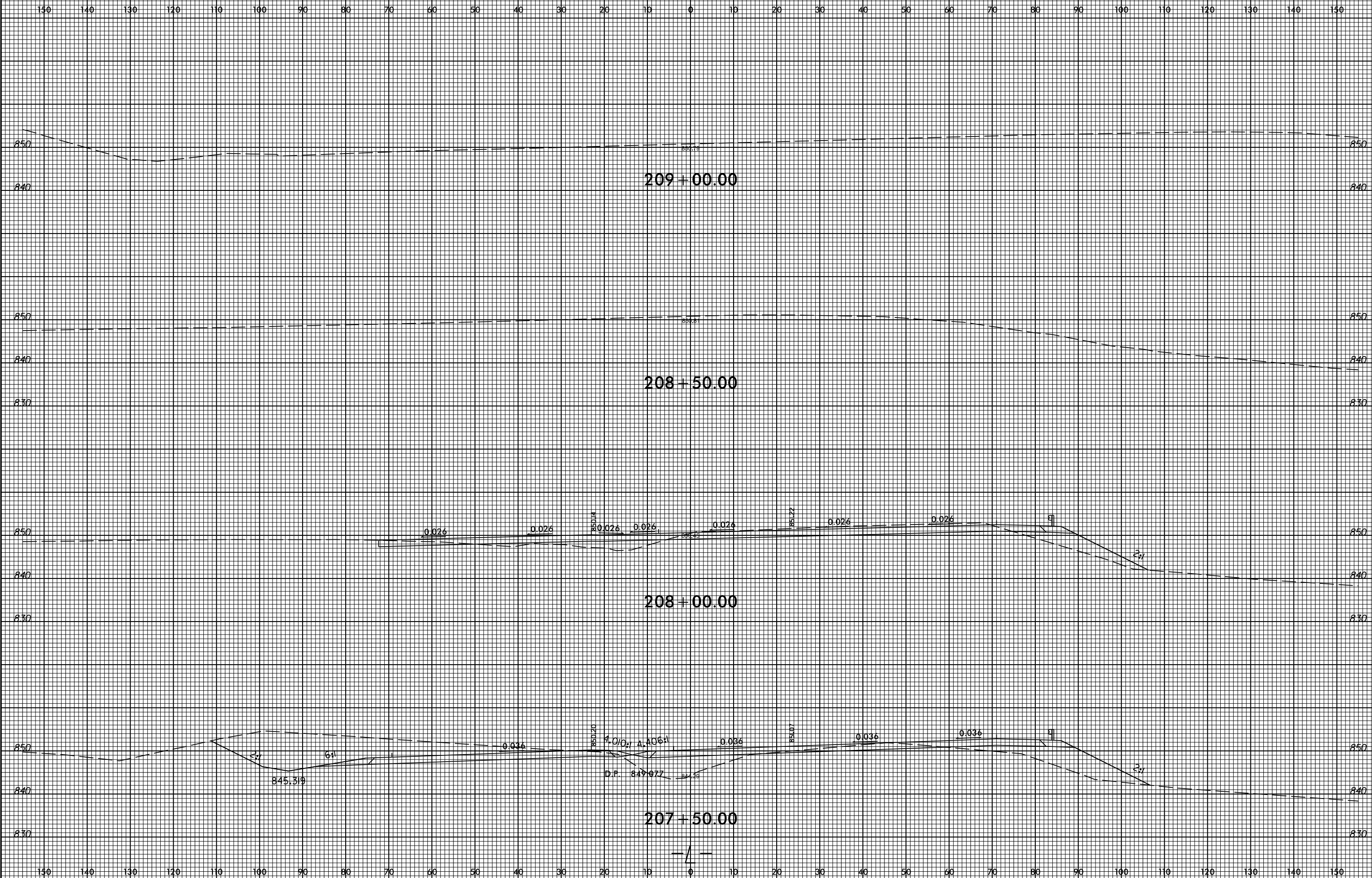
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U-2412A

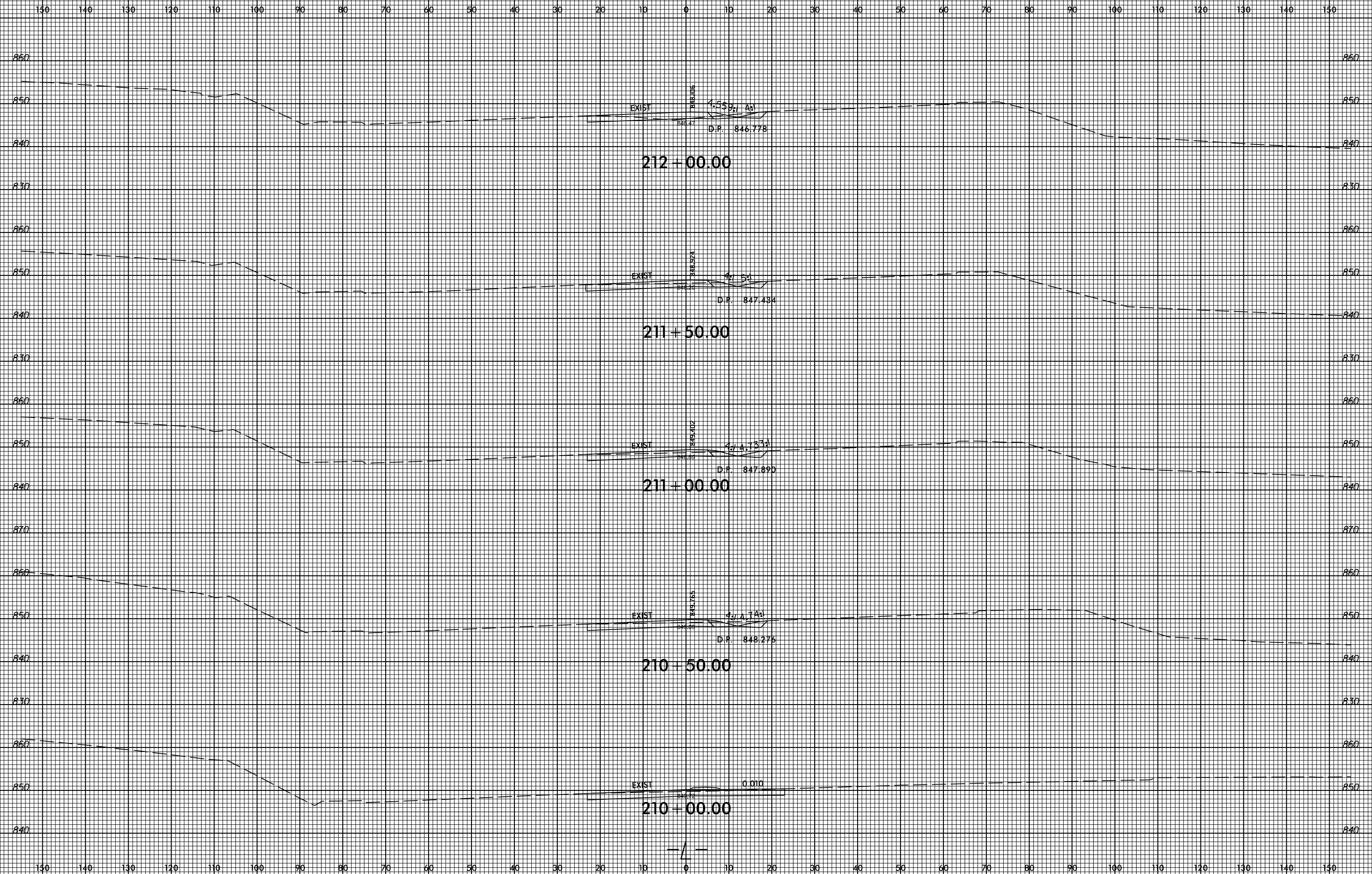
SHEET NO.  
X-130

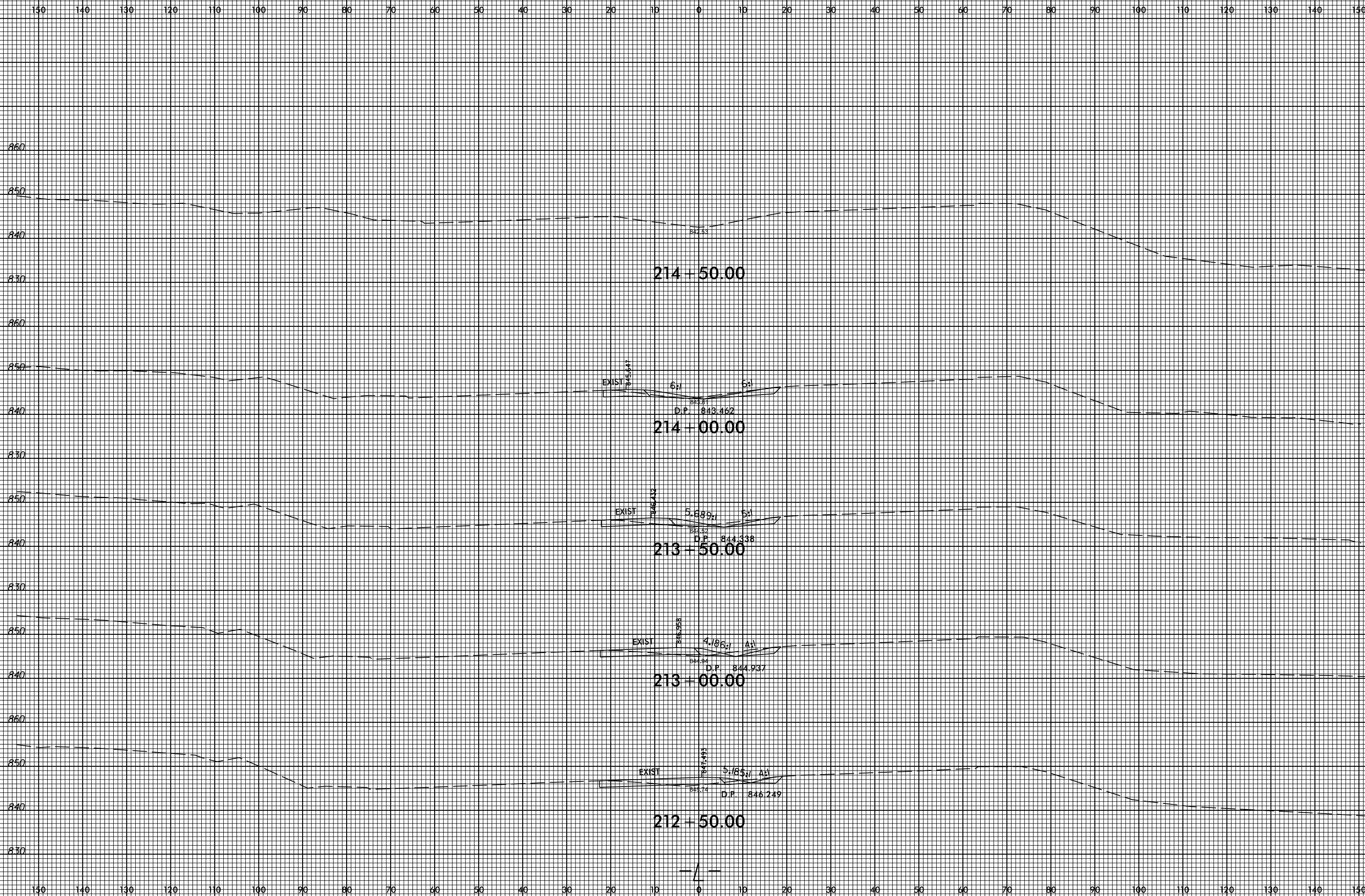


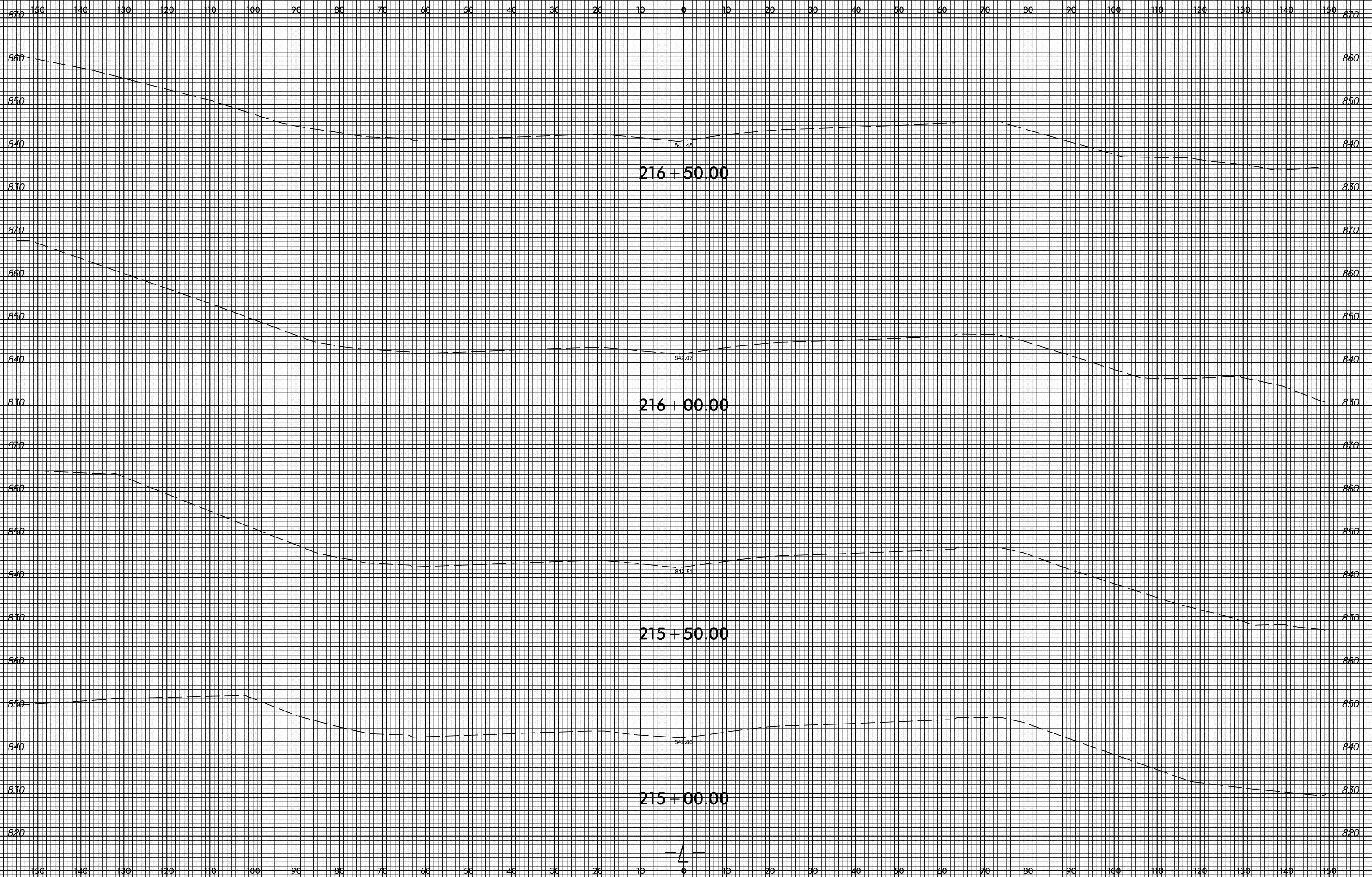
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11/23/99

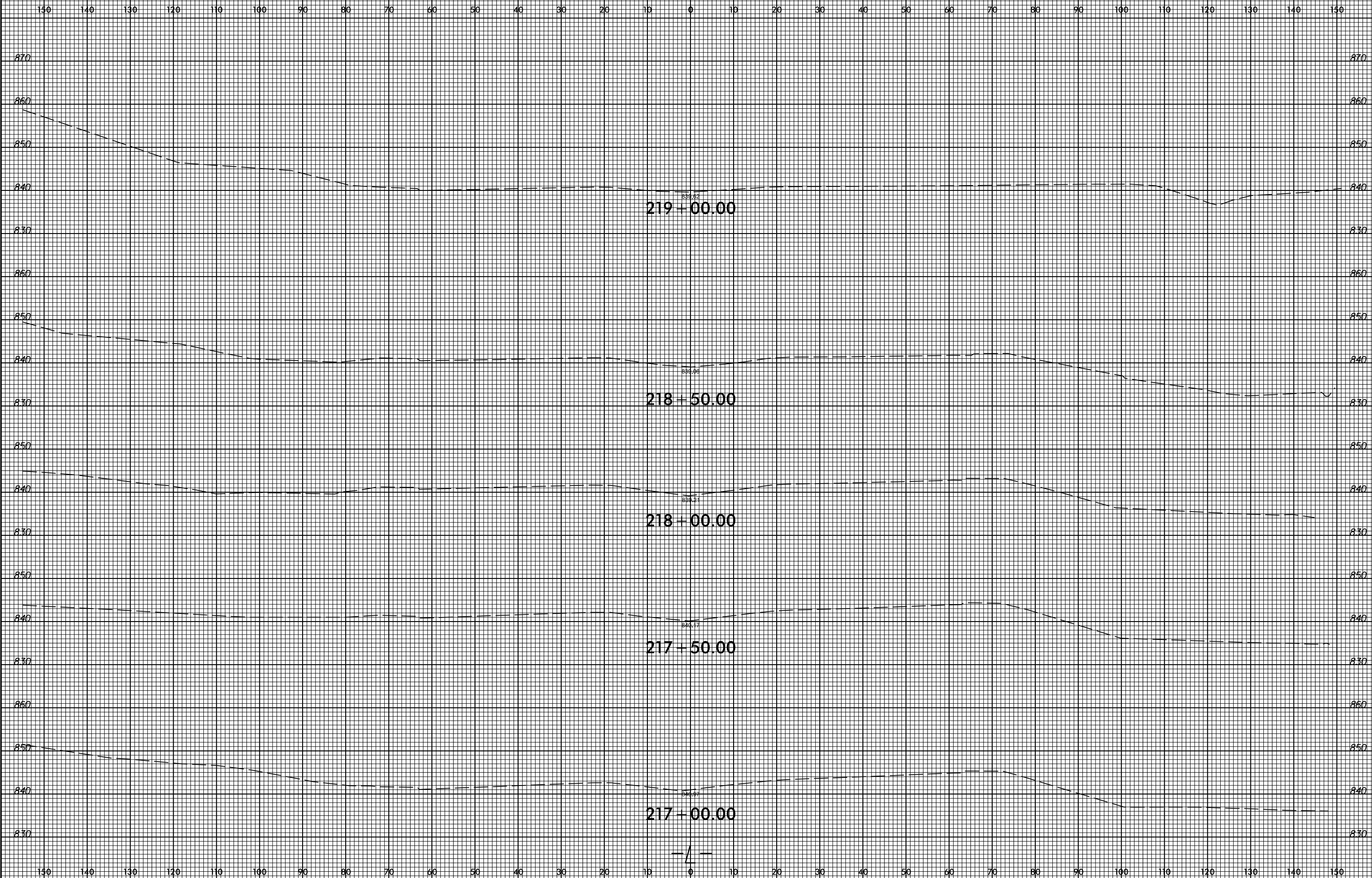


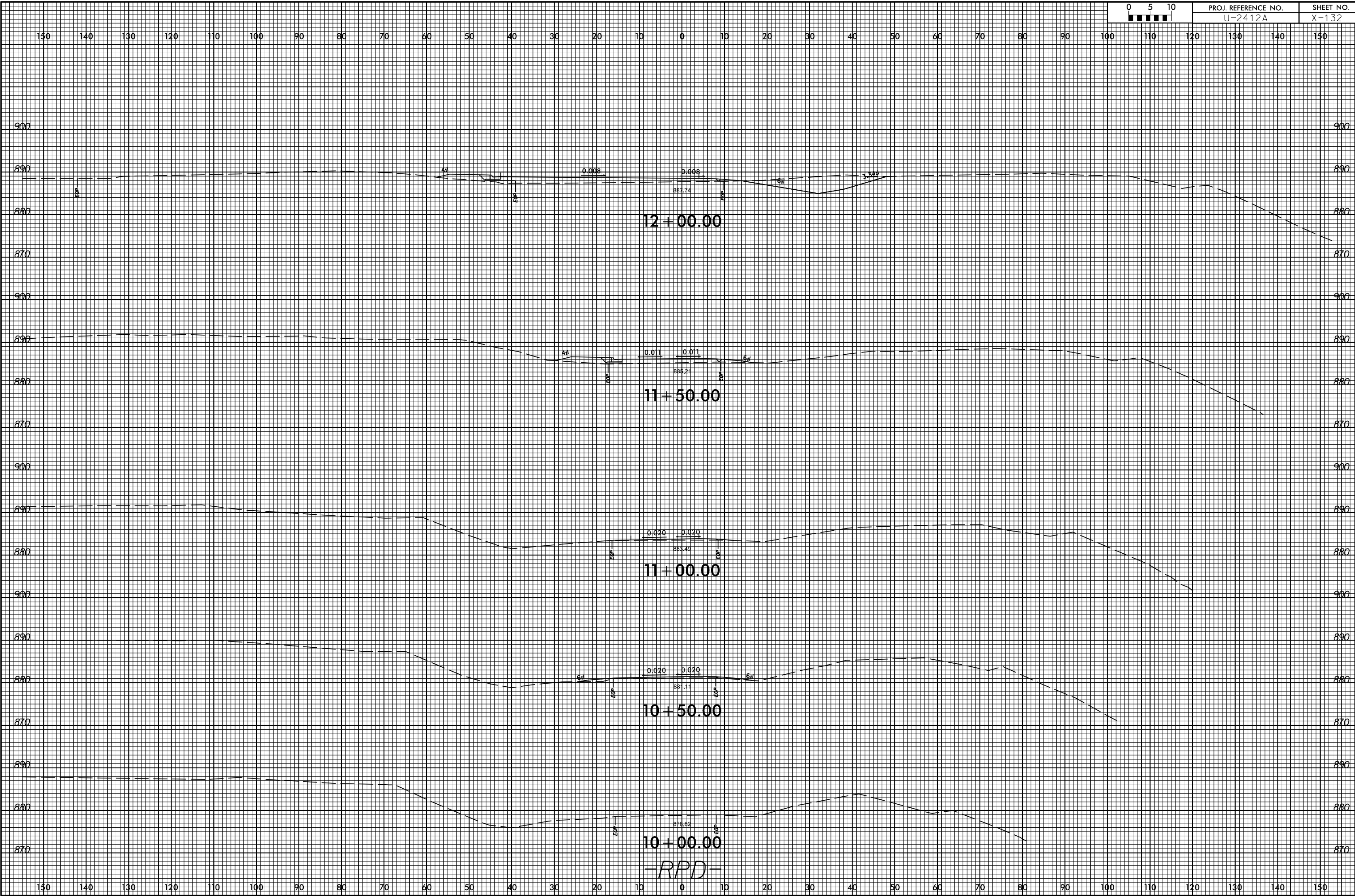










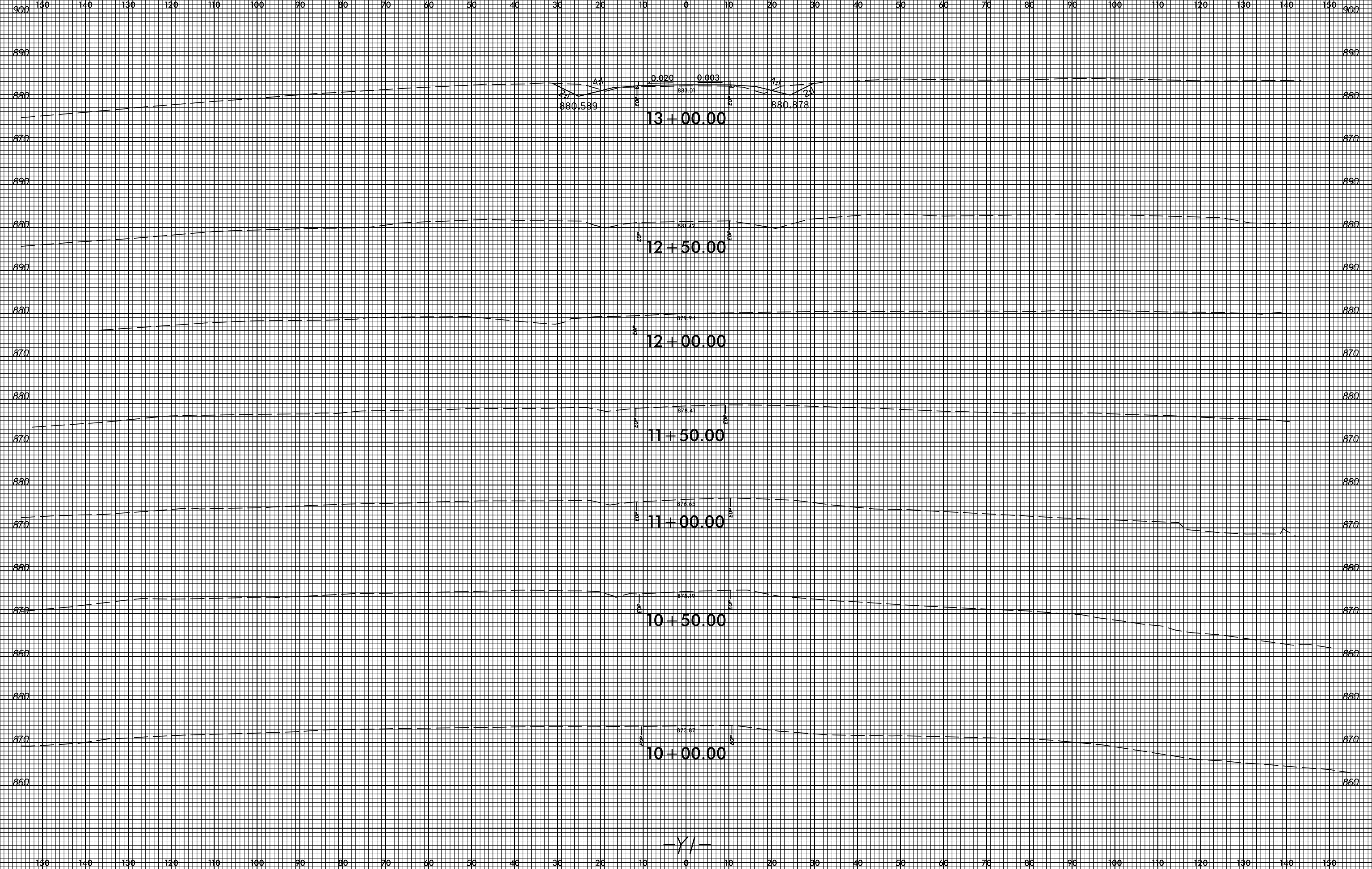


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-133



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P133855

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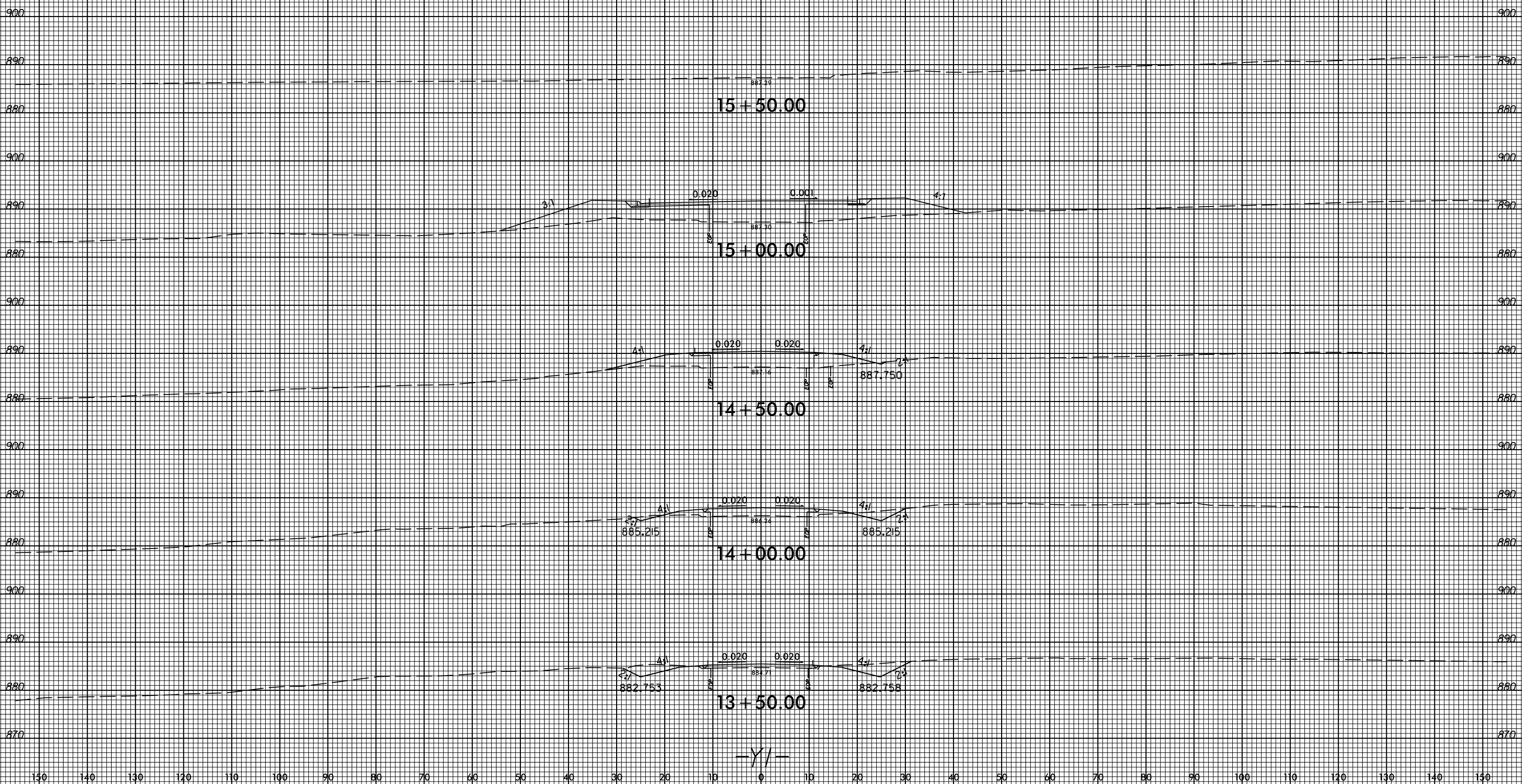
8/23/99



PROJ. REFERENCE NO.  
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SHEET NO.  
X-134

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P138855

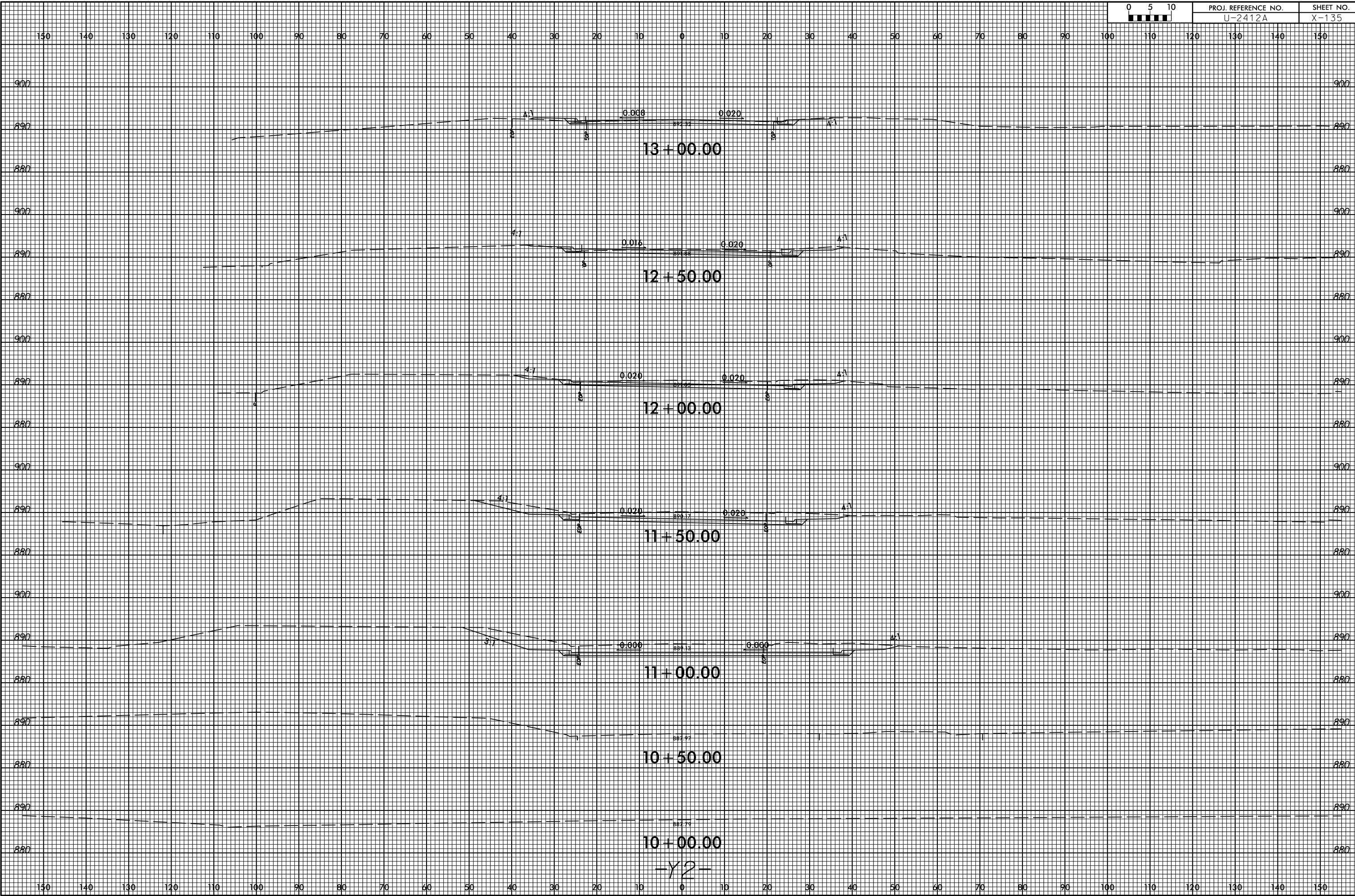


8/23/99

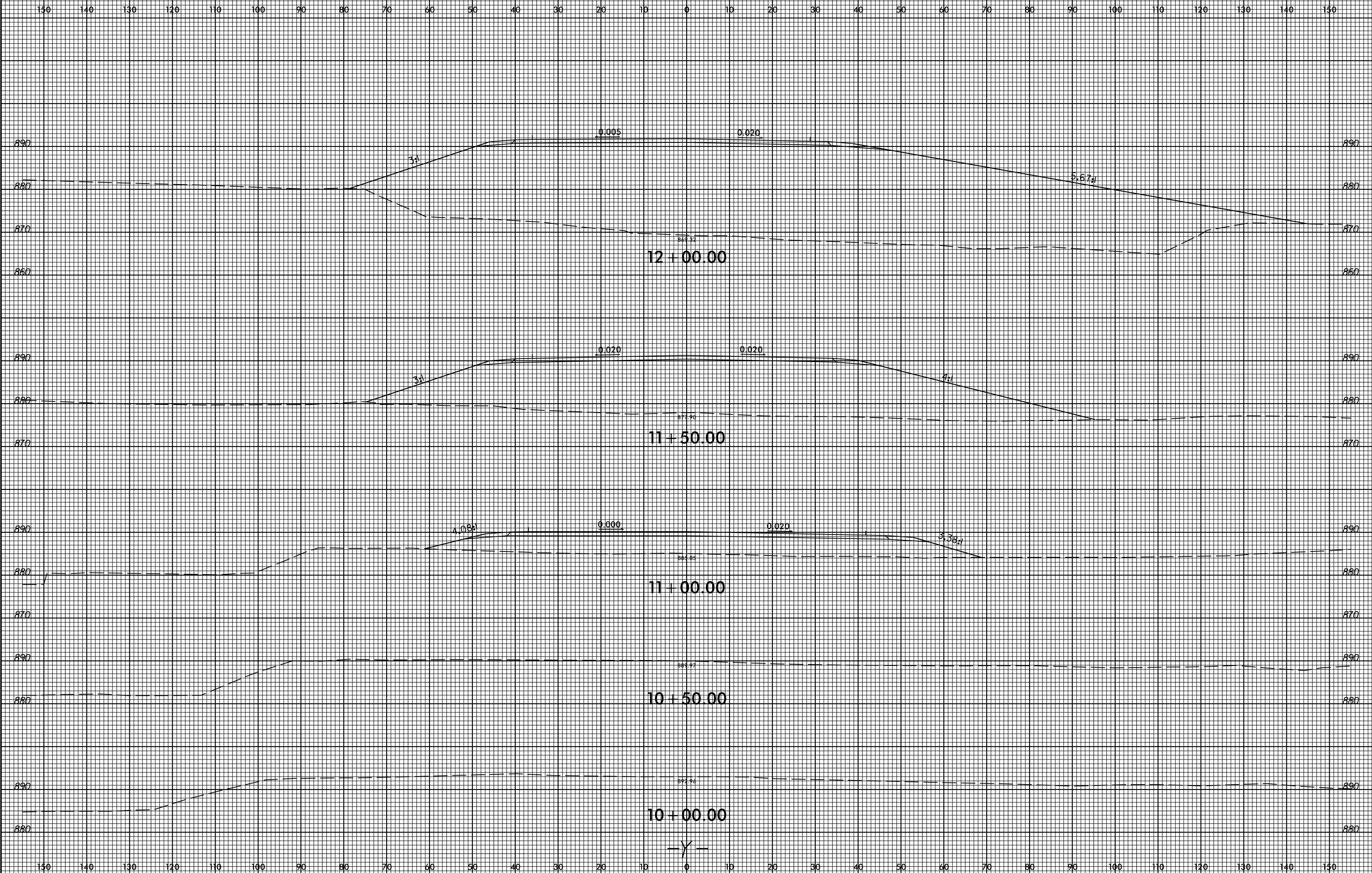


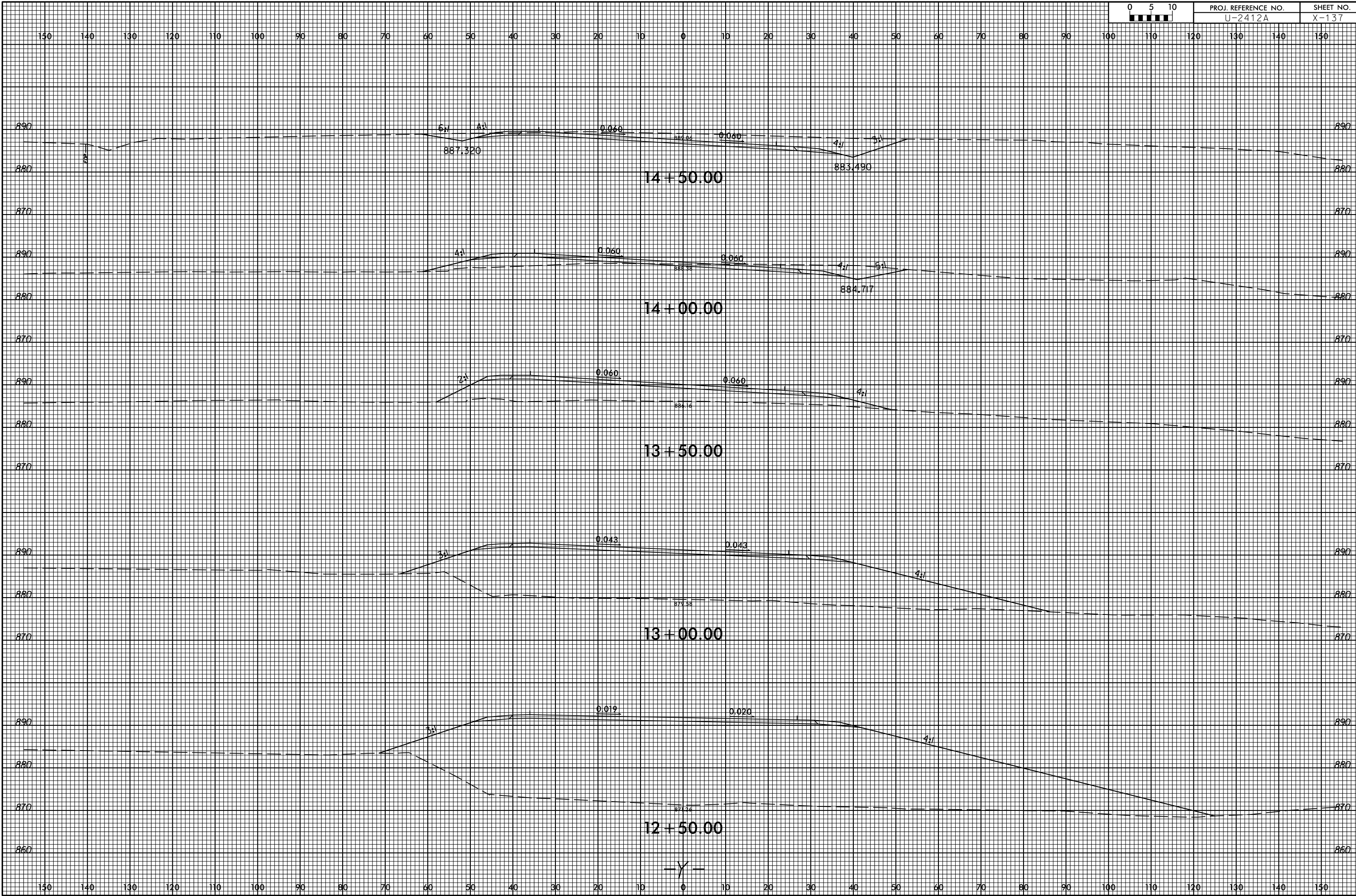
PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-135



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P135855



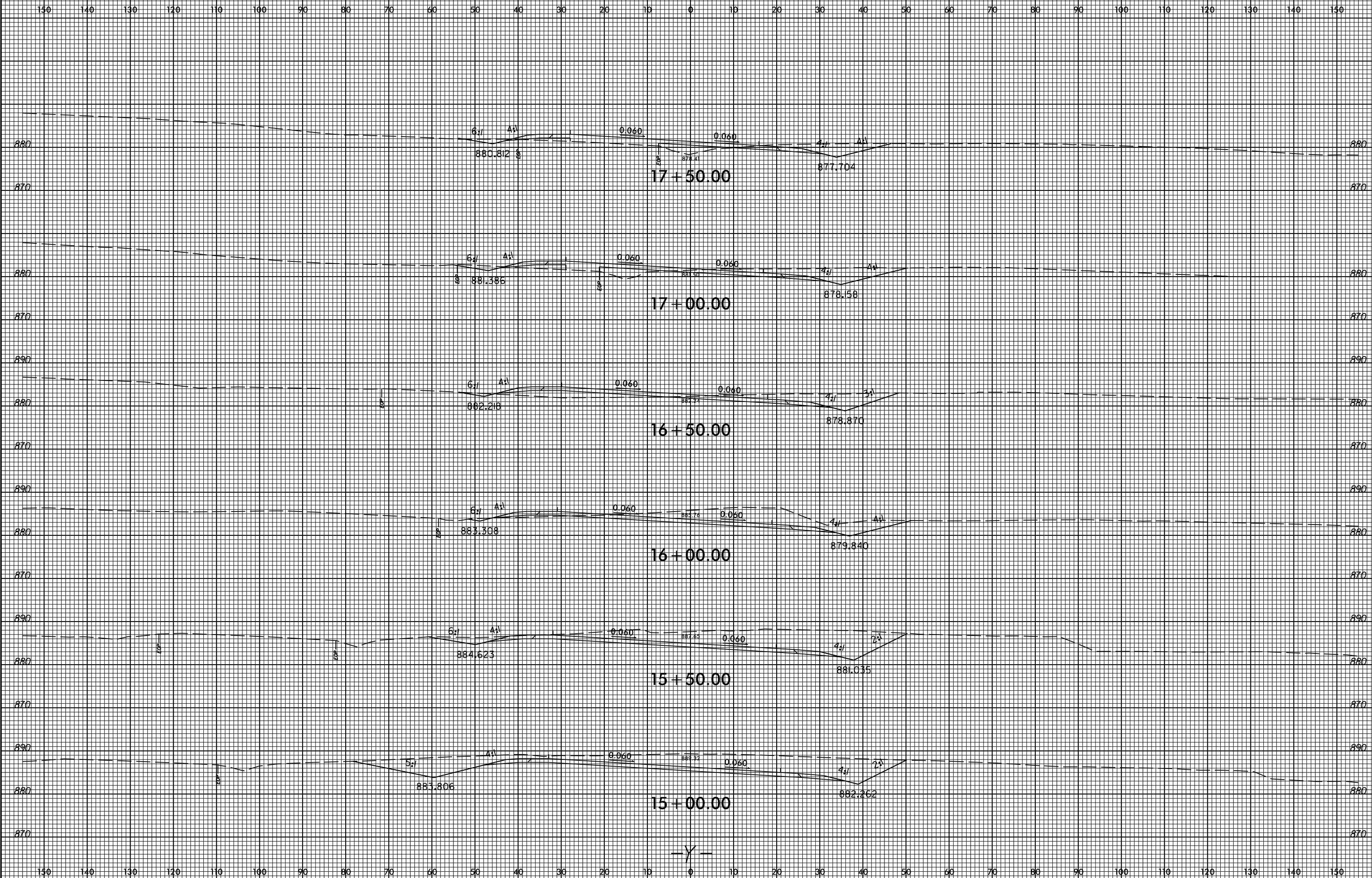


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-138



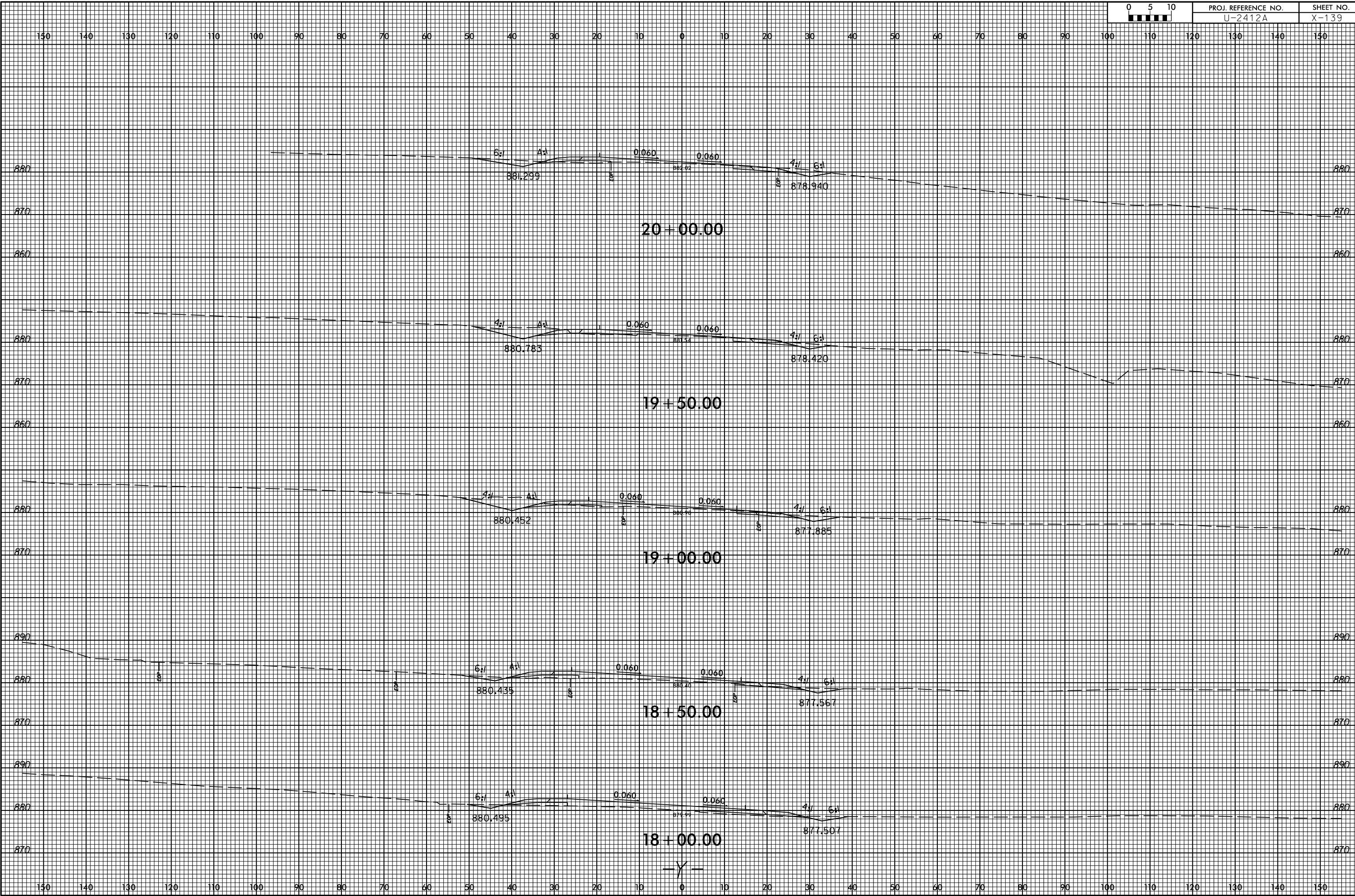
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PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-139



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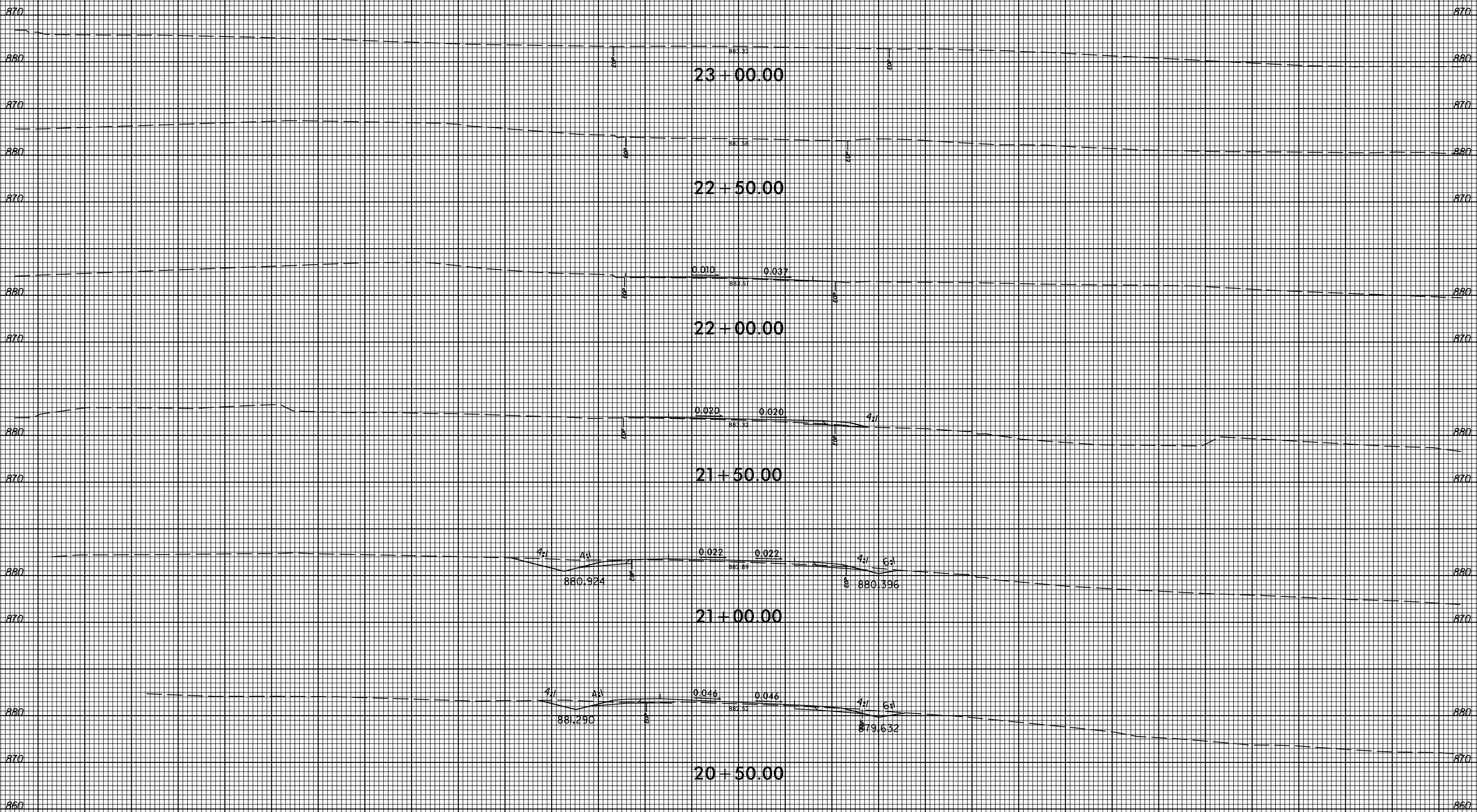
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-140

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P138855

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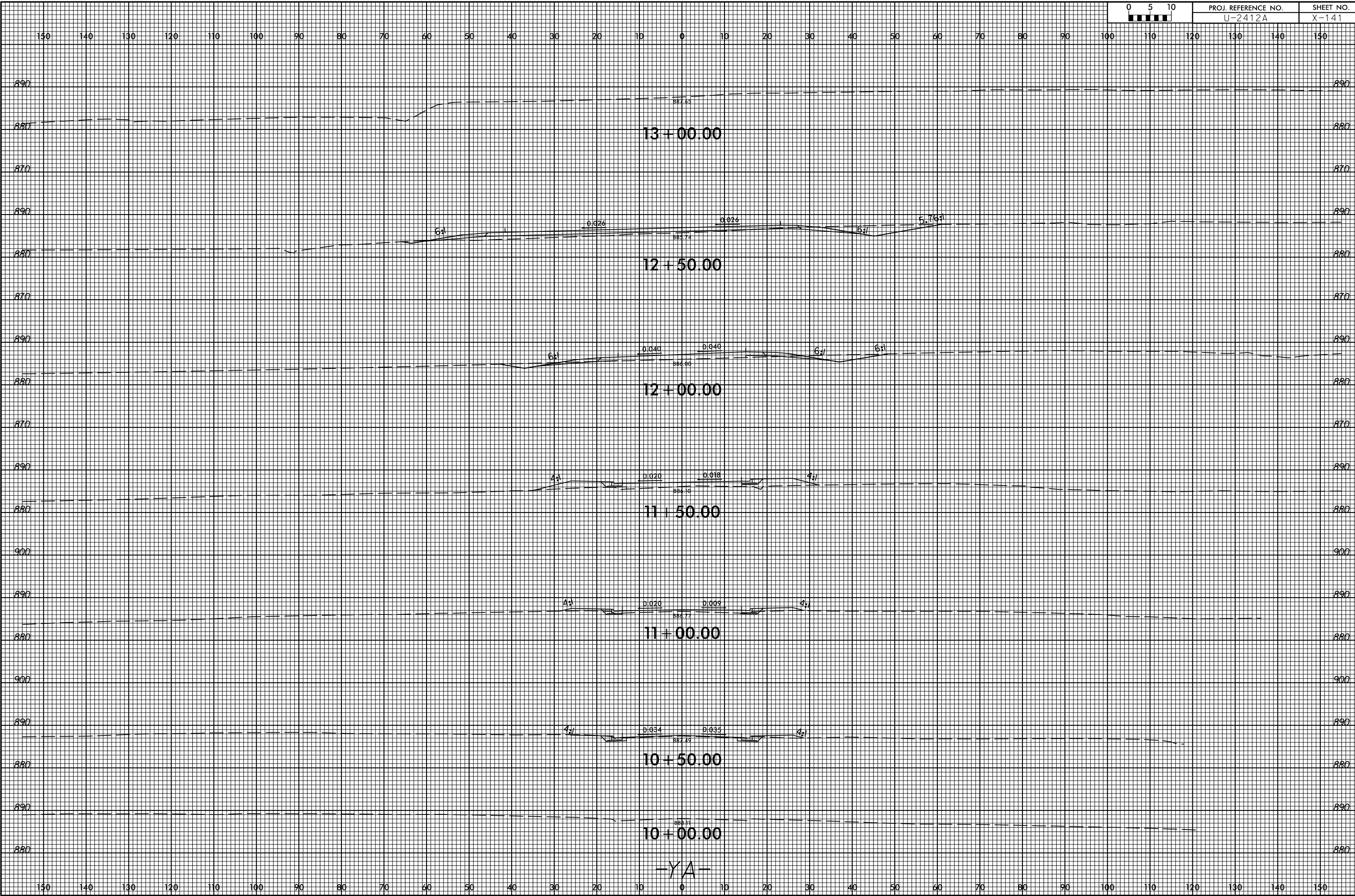
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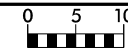
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X-141



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11/3/99

-YA-

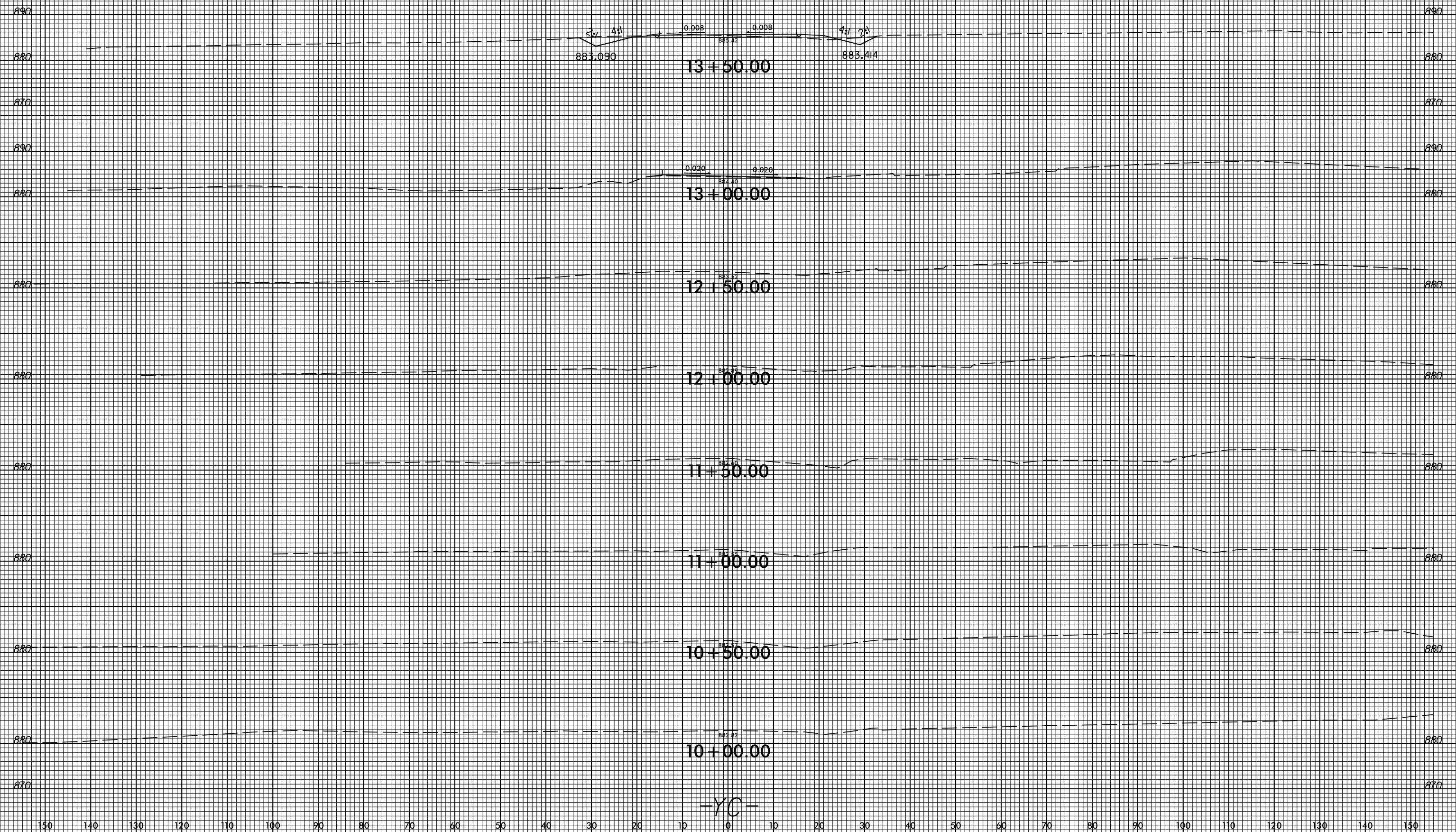
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-142

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-YC-

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7/13/99

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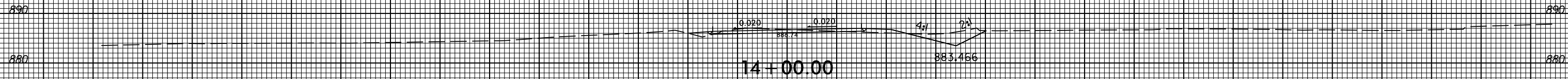
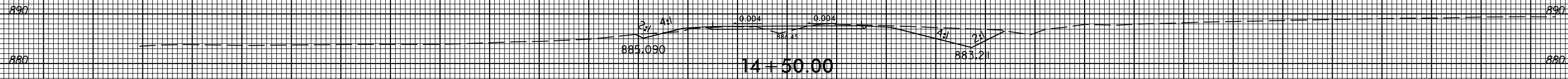
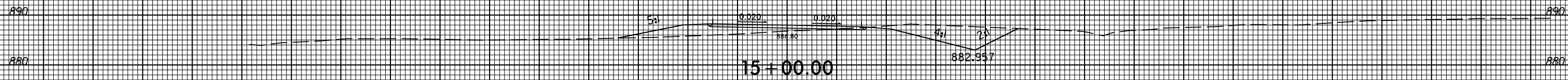
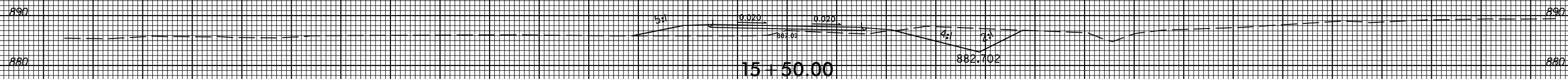
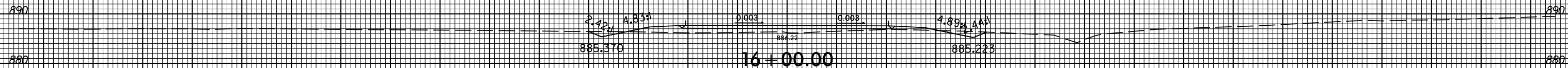
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-143

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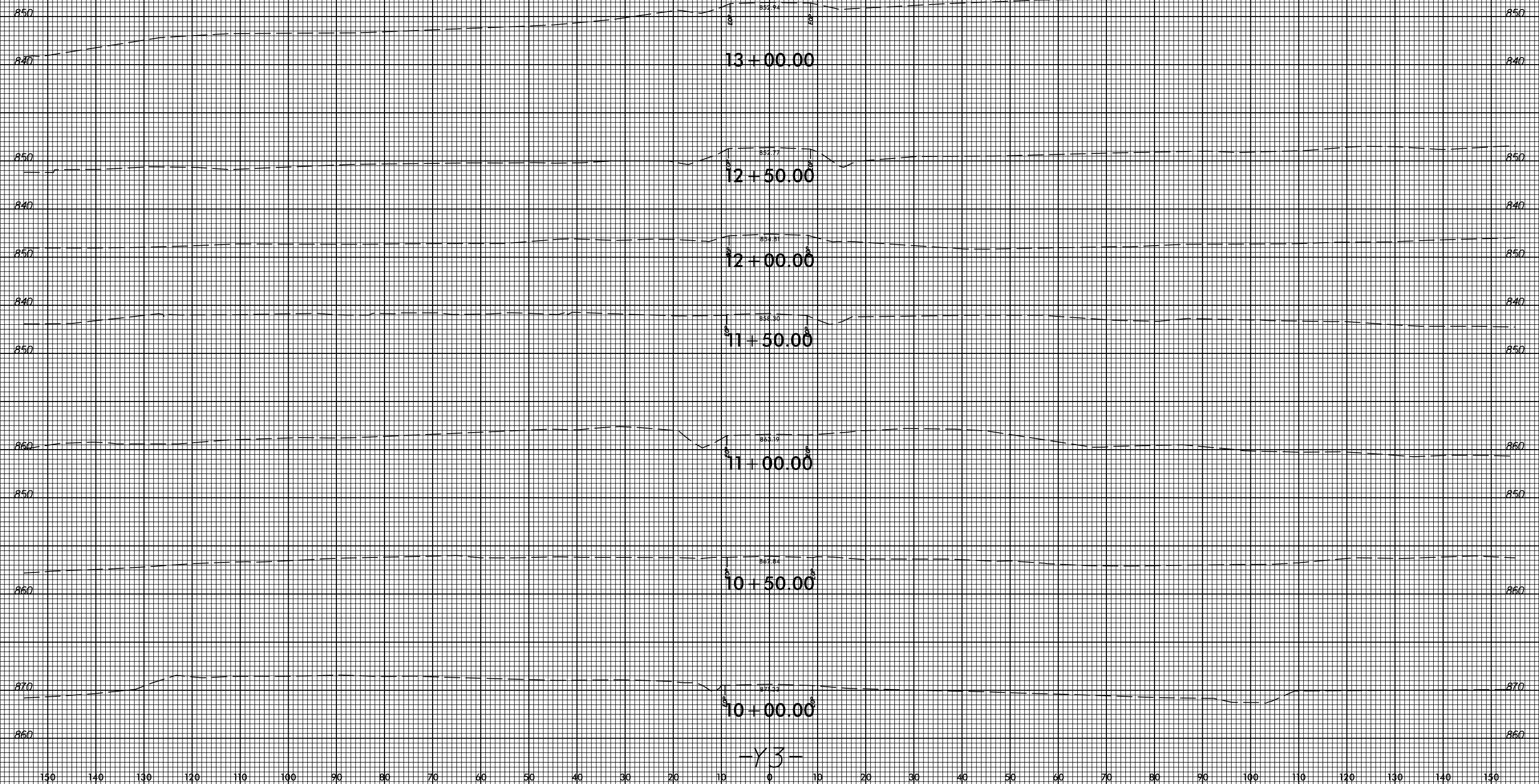


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P138355

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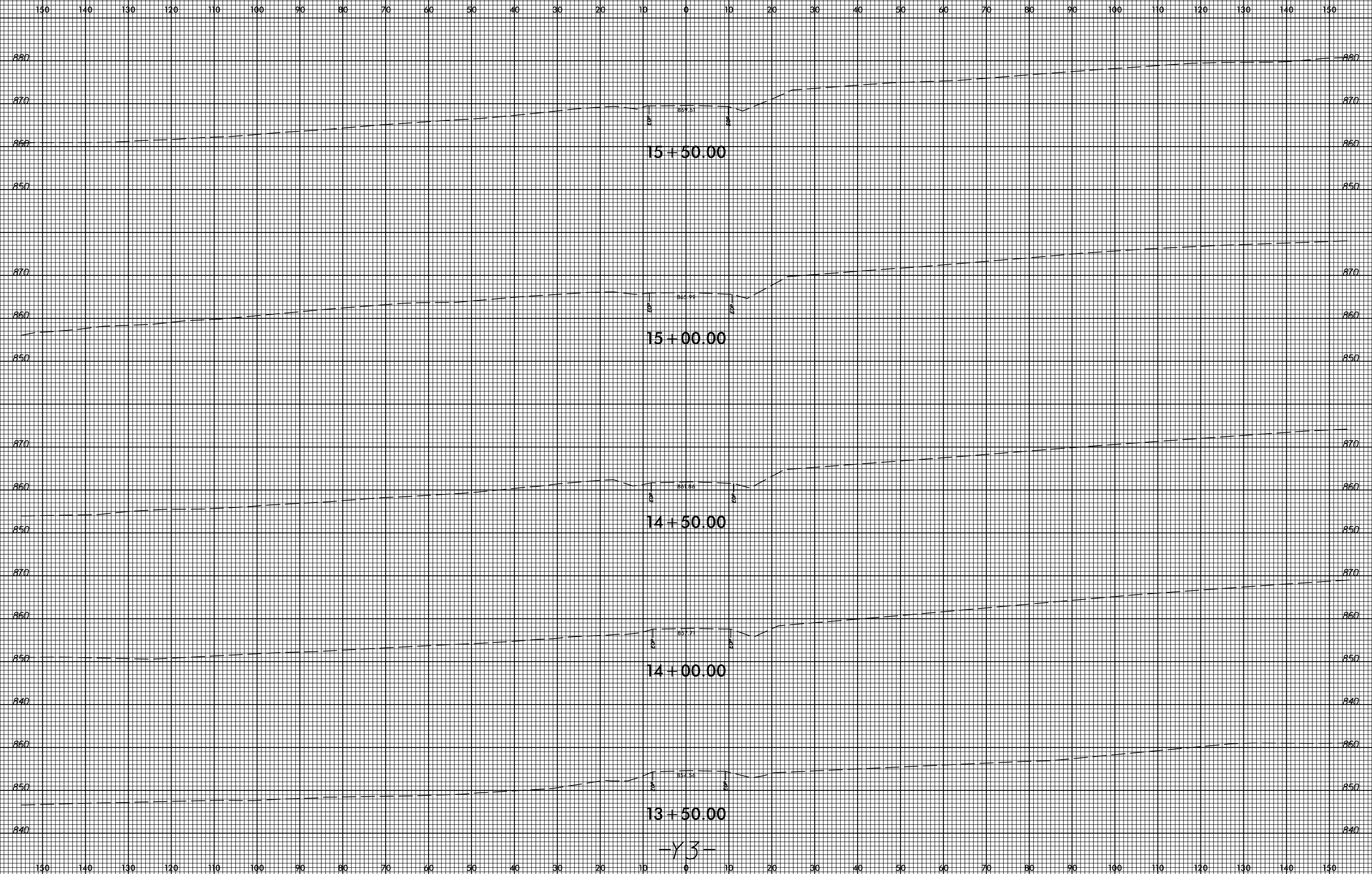
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8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-145



3:44:15 PM  
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P1338355

-Y3-

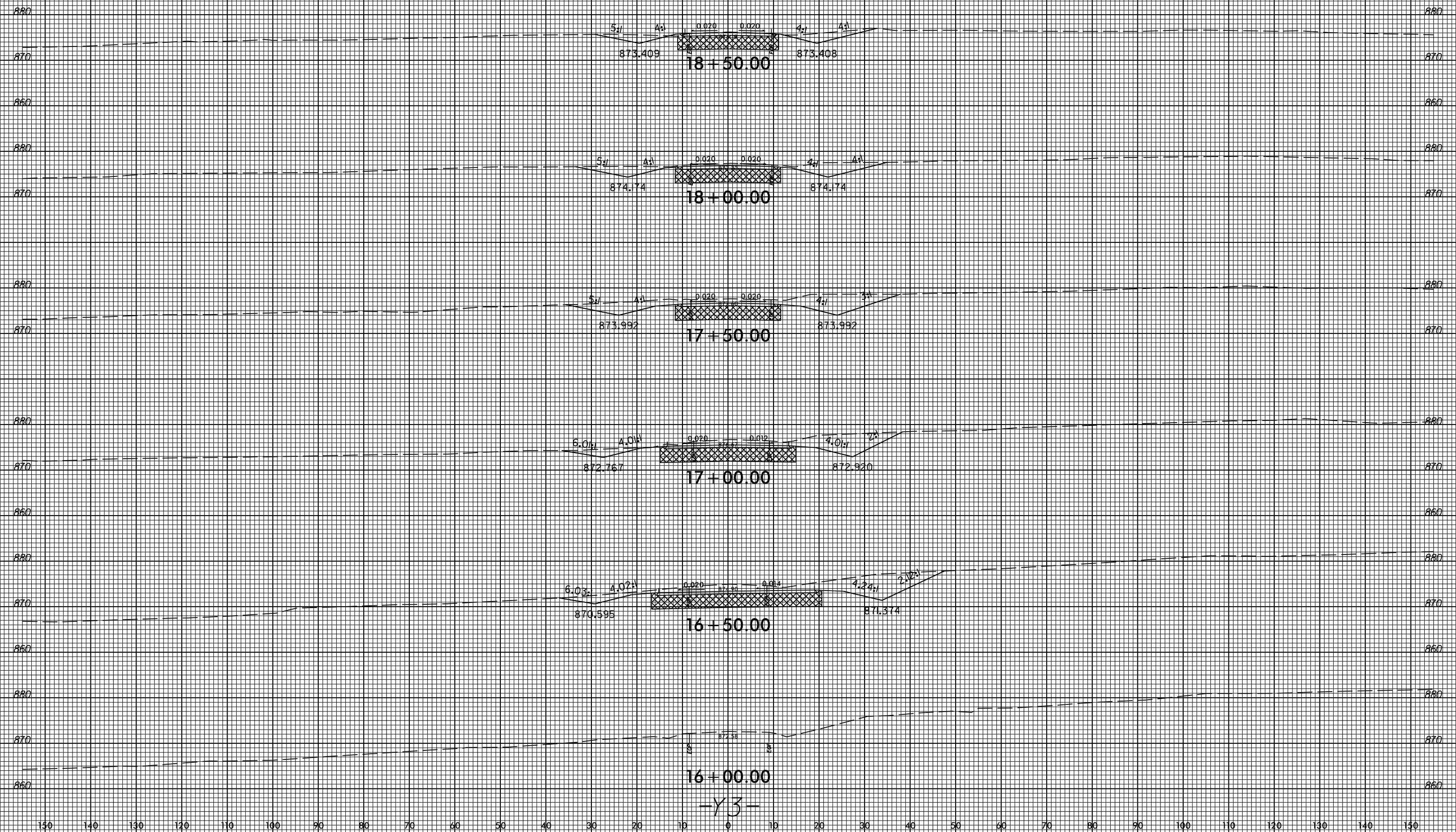
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-146

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16+00.00  
-Y3-

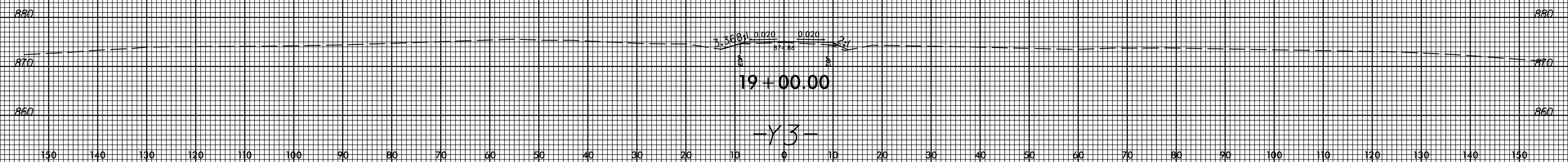
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-147

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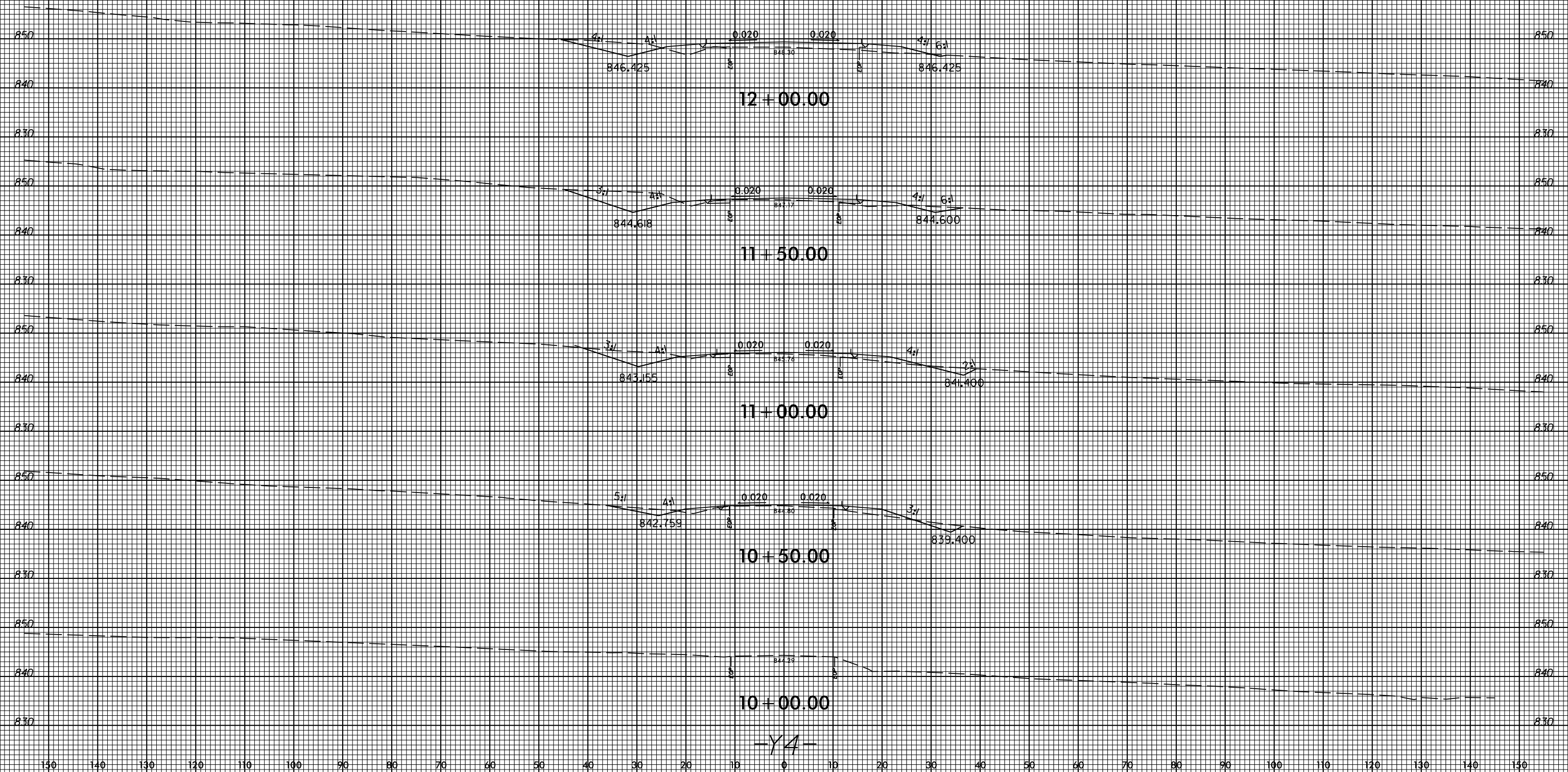
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-148

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P138855

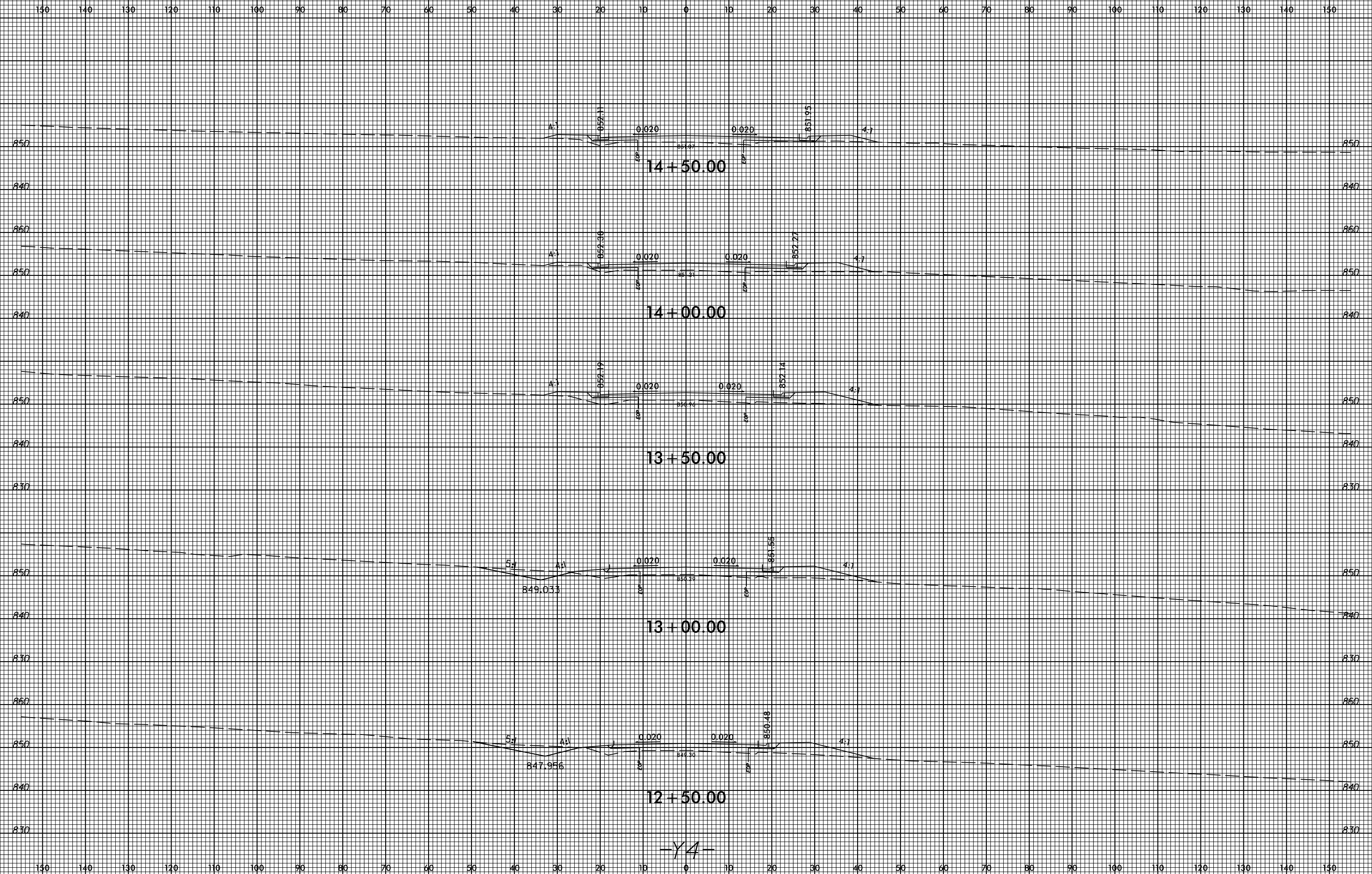
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

8/23/99



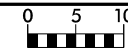
PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-149



3:428 PM  
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133855

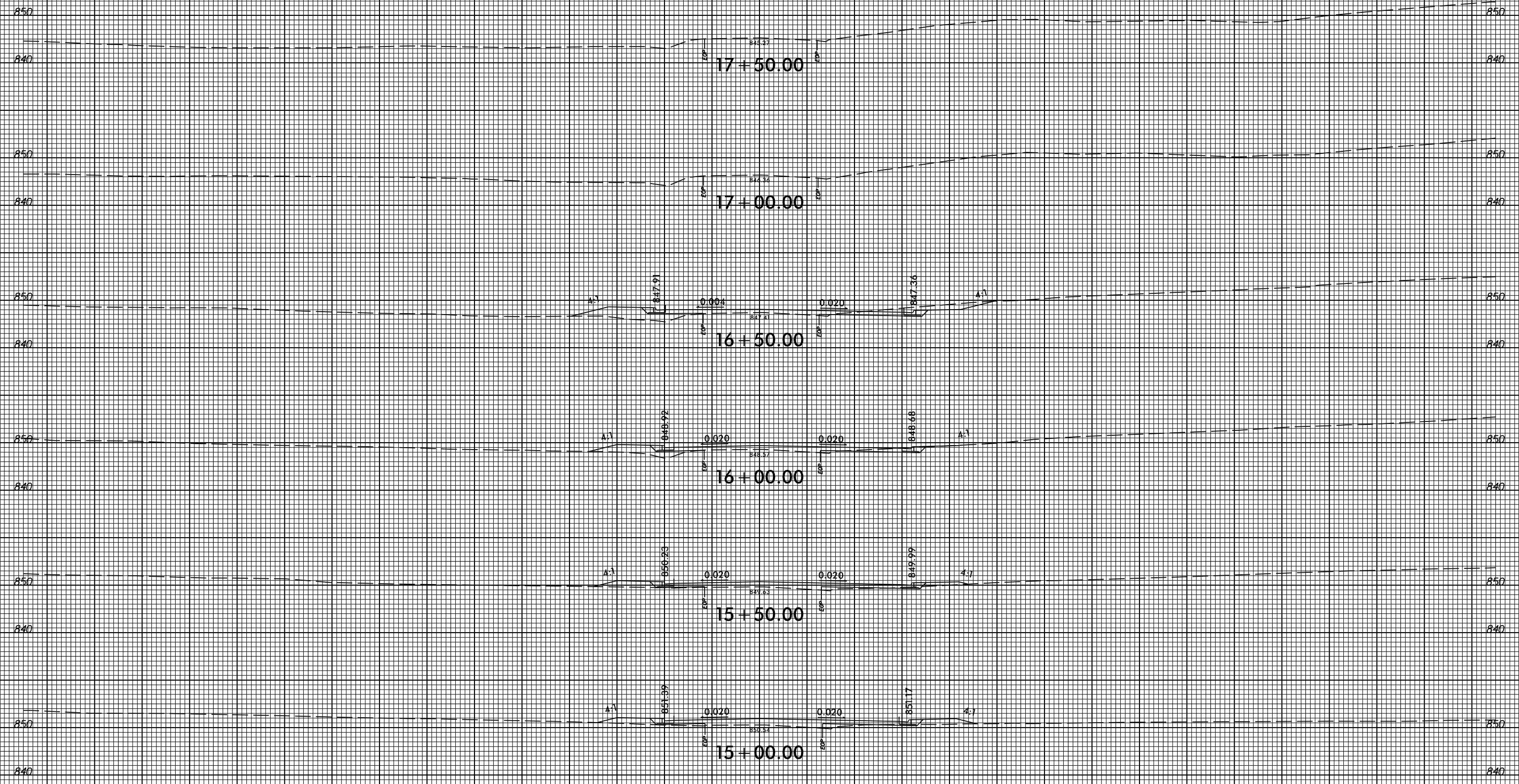
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-150

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



-Y4-

3:43:30 PM  
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133855

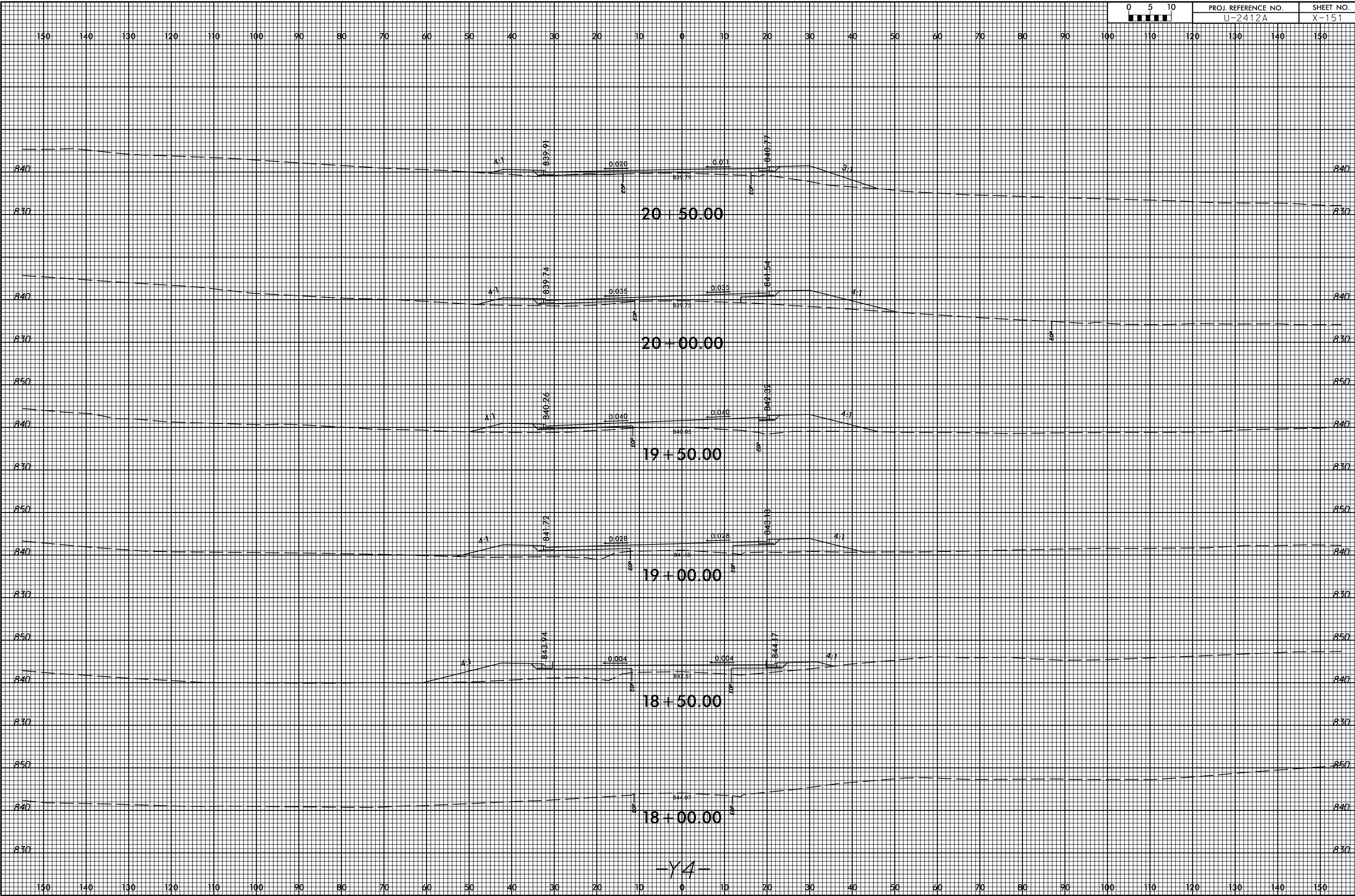


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-151



3:43:32 PM  
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 P138855

-Y4-

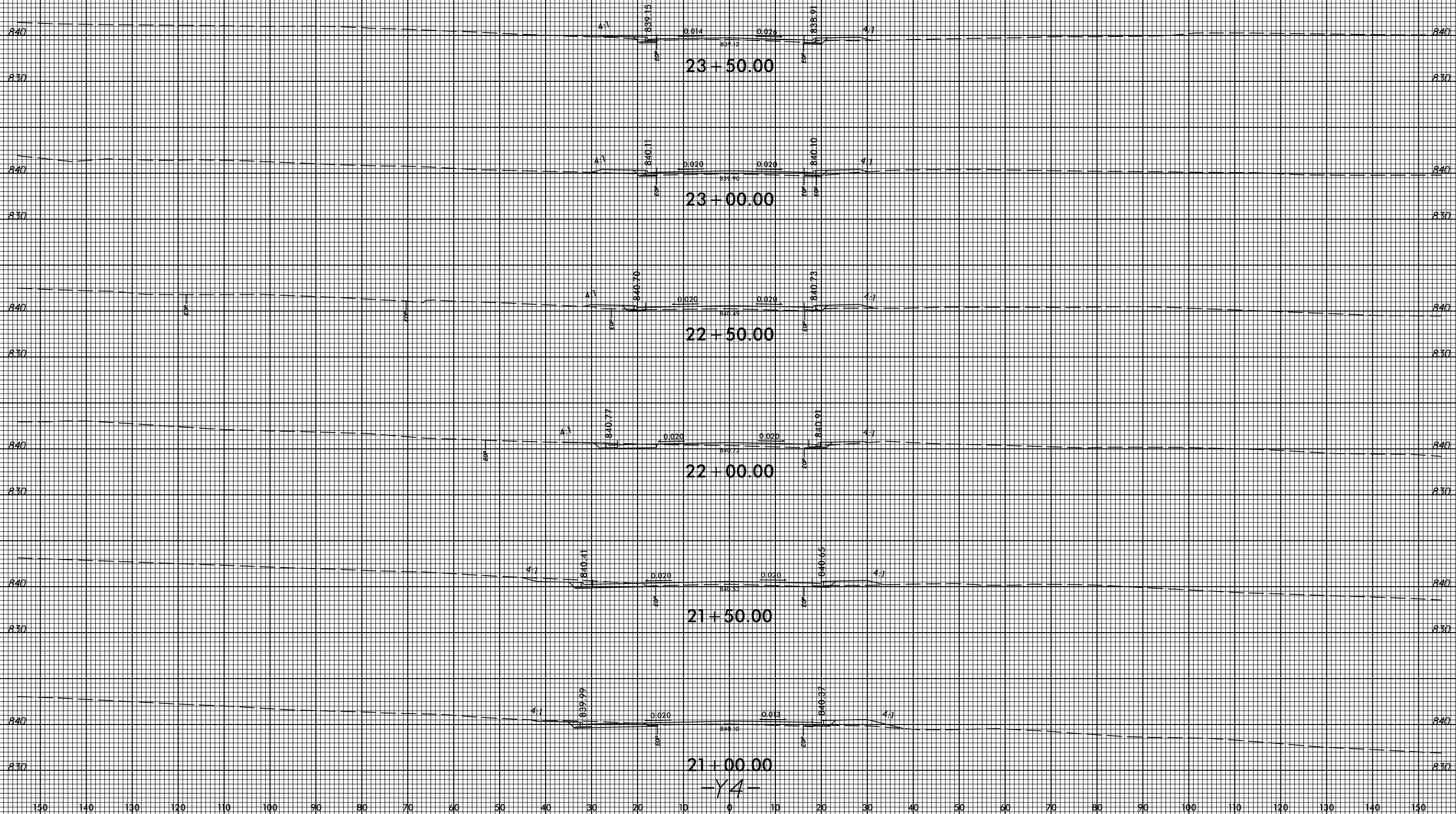
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-152

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

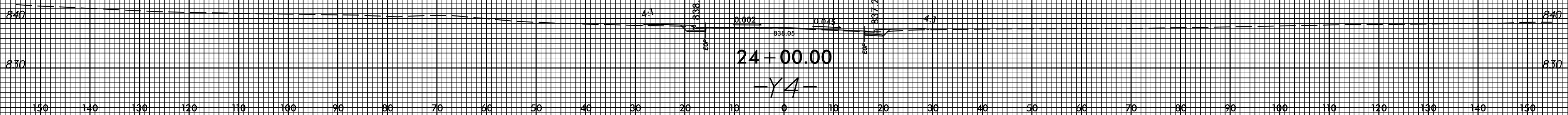


3:4:35 PM  
P:\8855\sc\Xp\2412a\_rdy\_xpl.yt.dgn  
P138855

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

-Y4-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

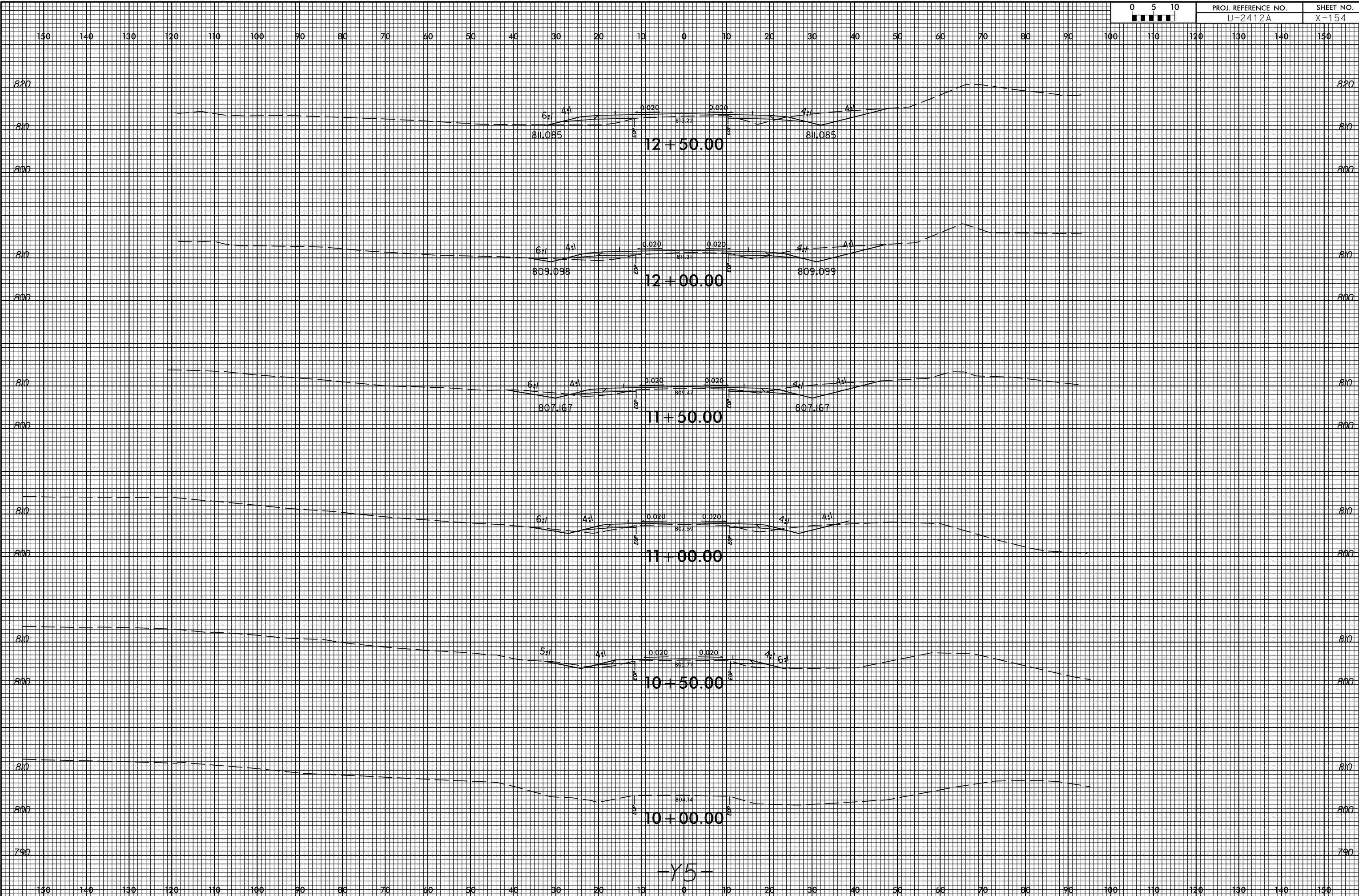


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-154



-Y5-

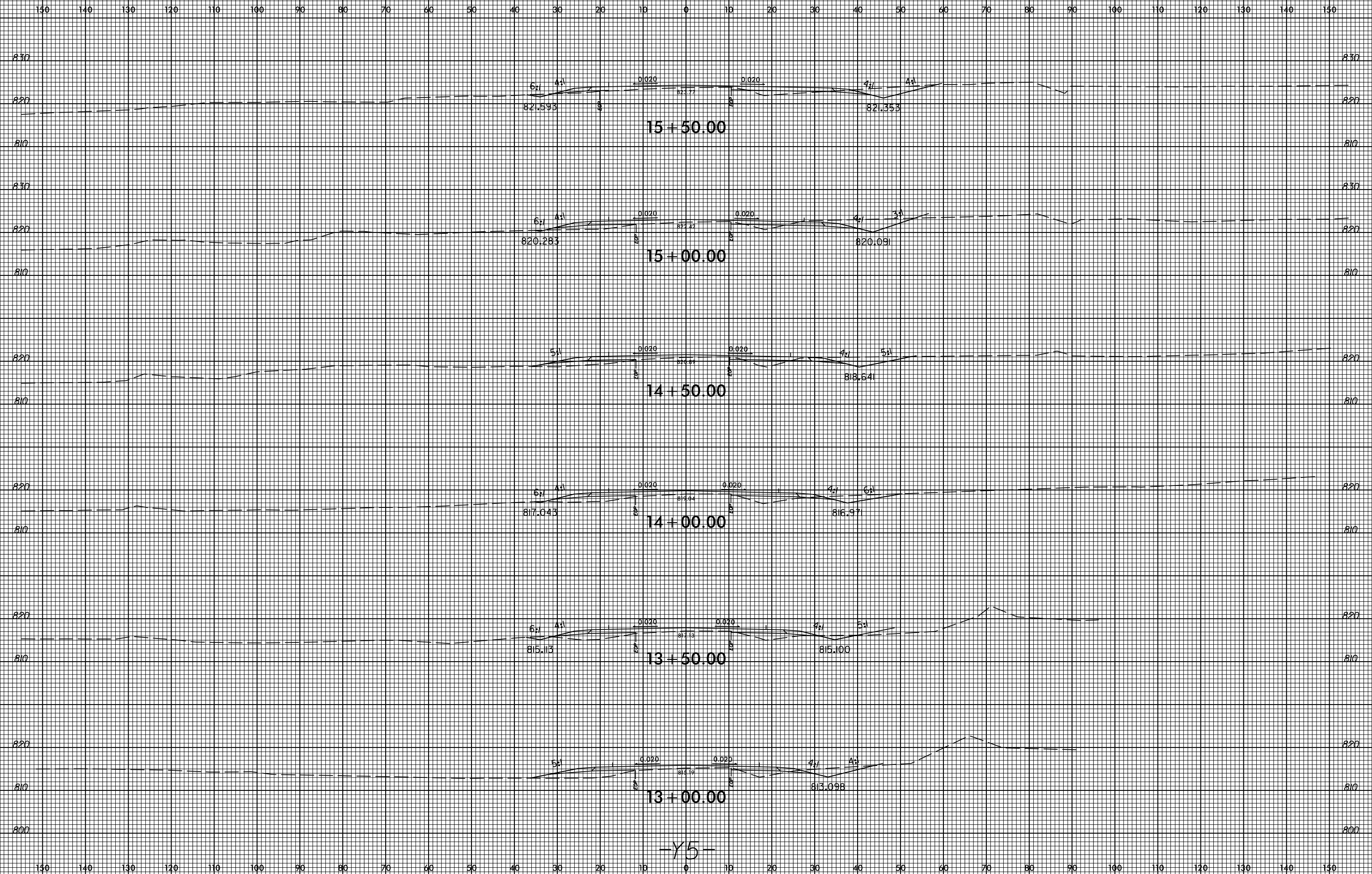
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130855

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-155



-Y5-

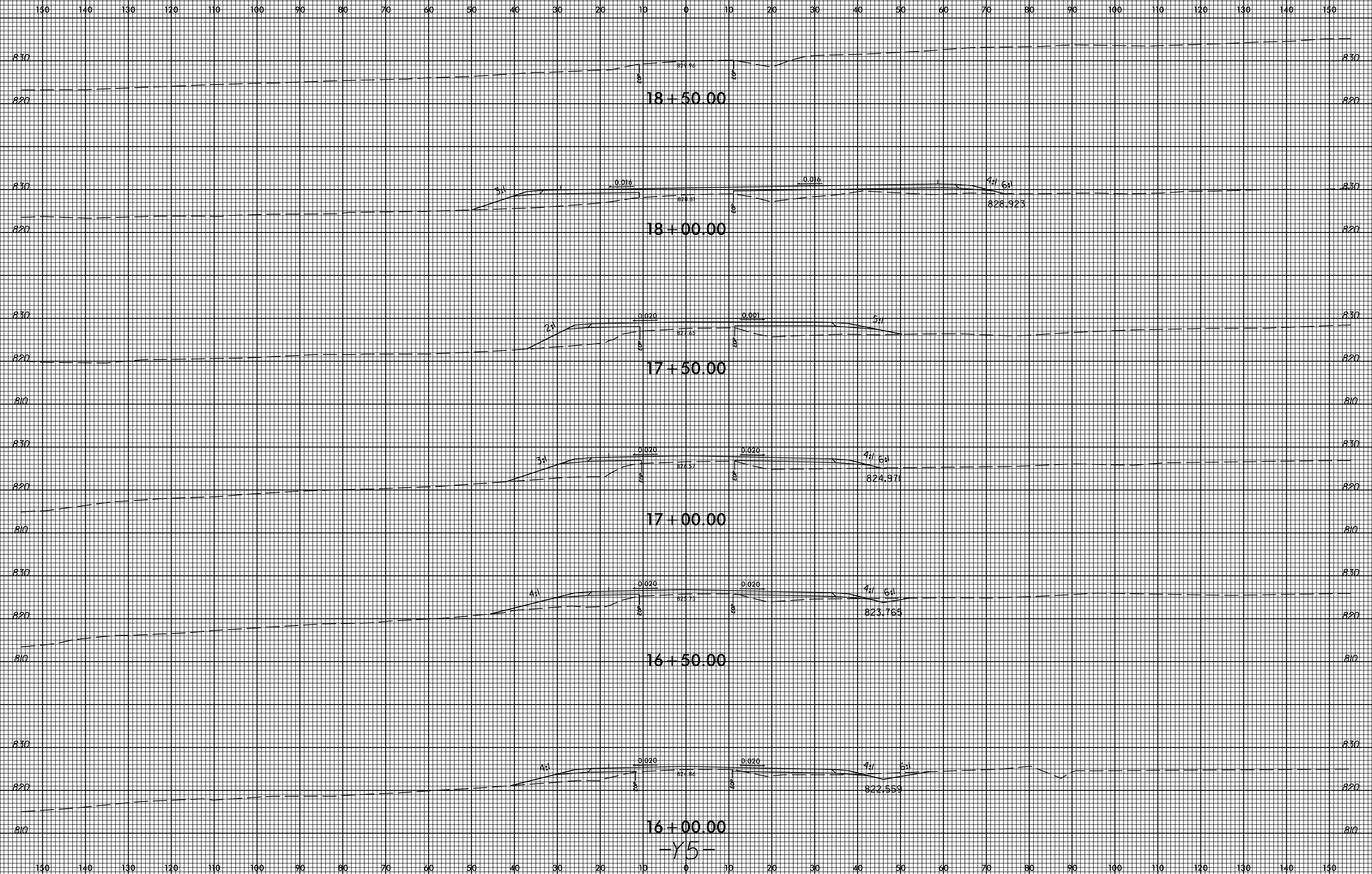
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F:\885858\Xsc\Xpl\U2412a\_rdy\_xpl\_5.dgn  
1338355

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-156



16+00.00  
-Y5-

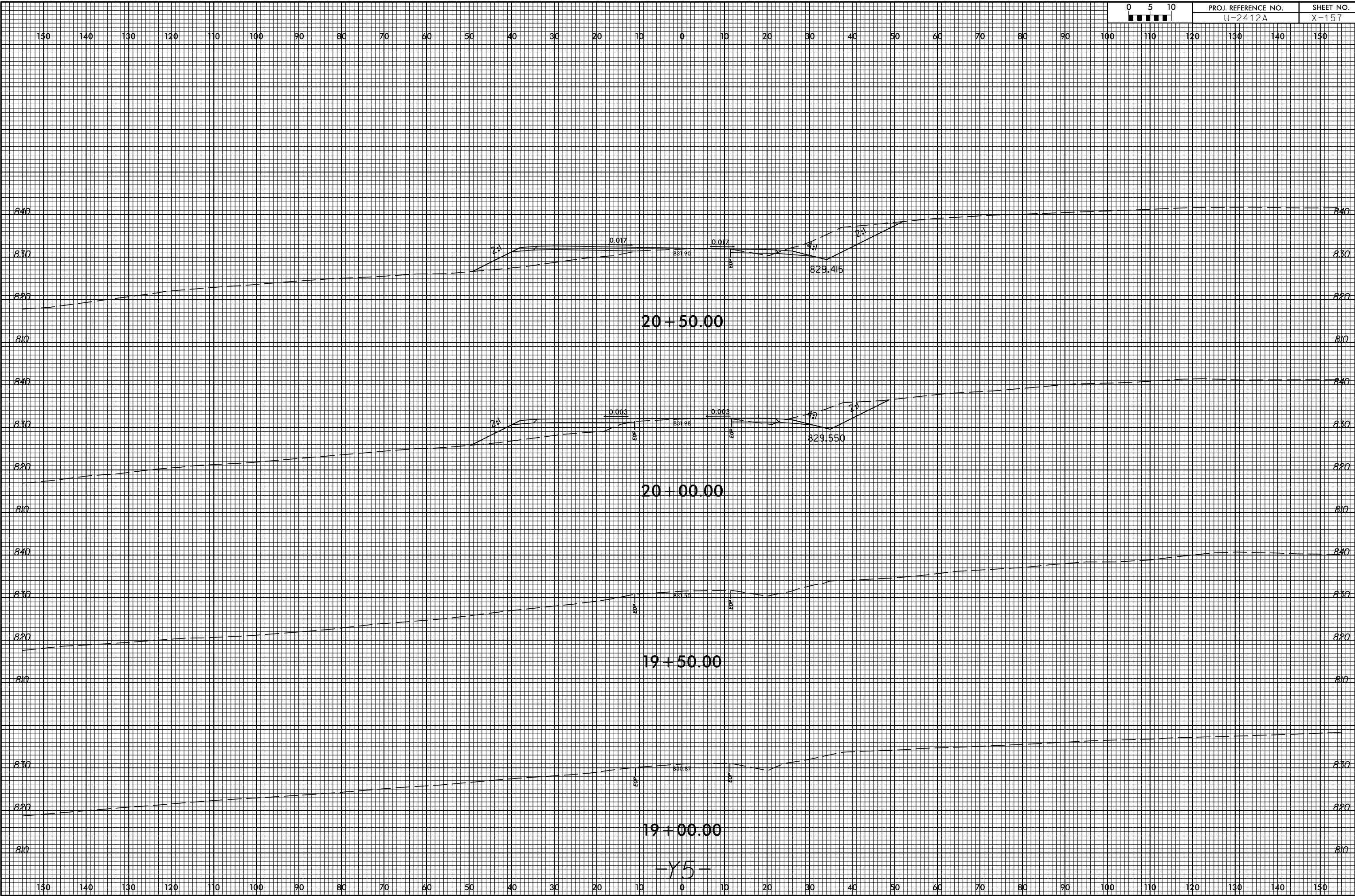
3:44:47 PM  
F:\885858\Xsc\Xpl\U2412a\_rdy\_xpl\_y5.dgn  
P133855

8/23/99



PROJ. REFERENCE NO.  
U-2412A

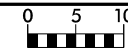
SHEET NO.  
X-157



3:14:50 PM  
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130855

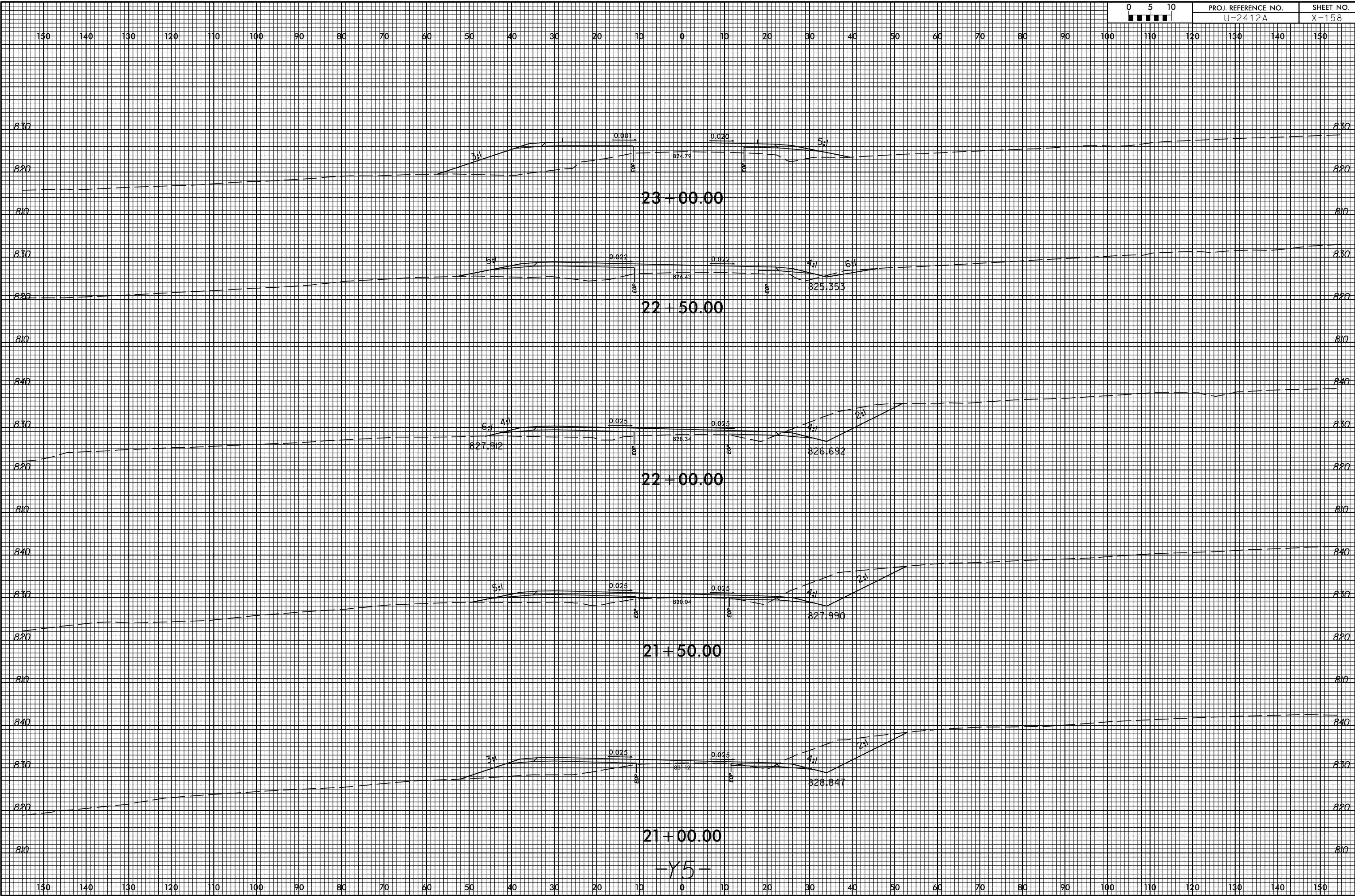
-Y5-

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-158



-Y5-

3:45:52 PM  
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11/23/99

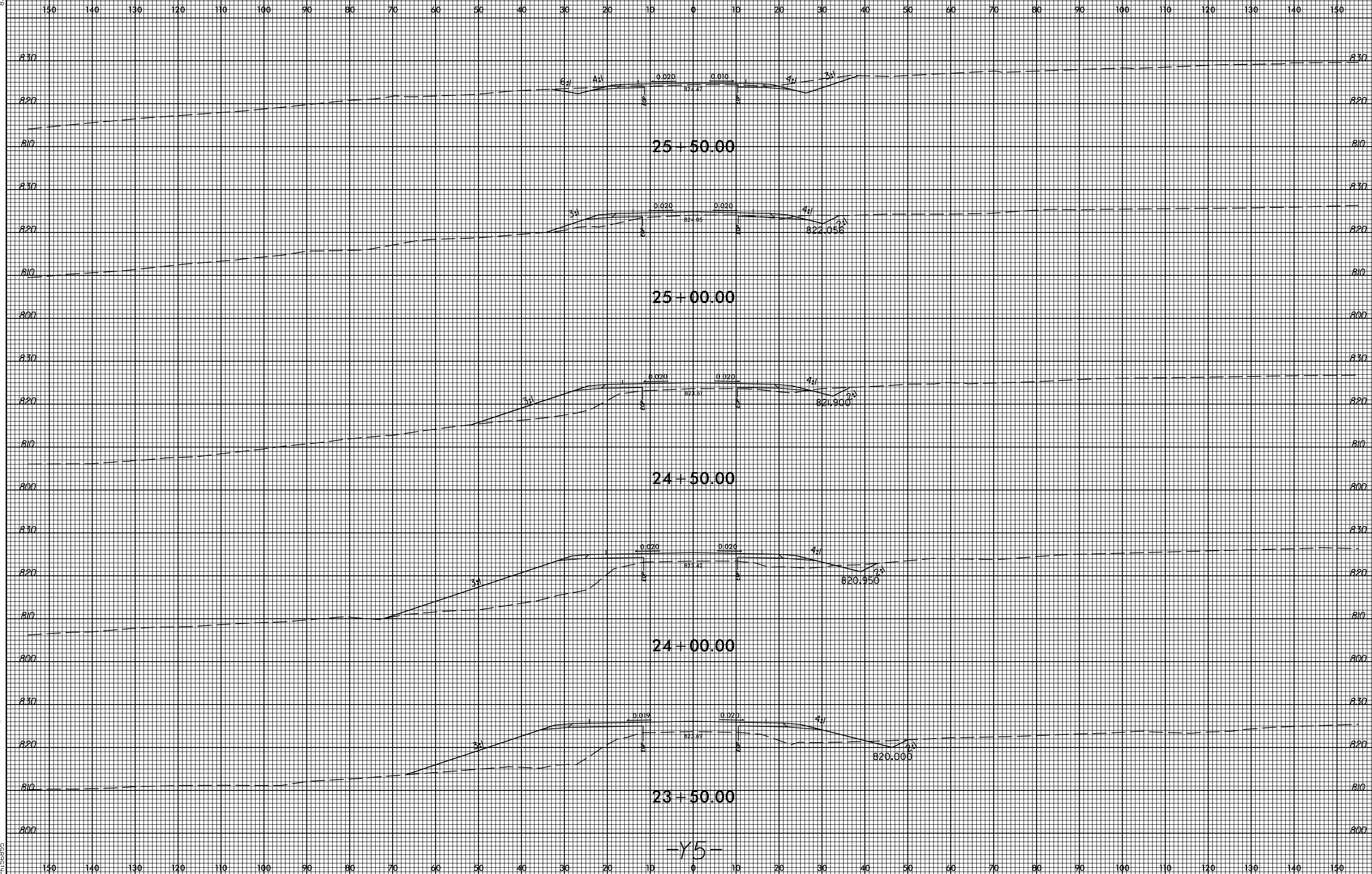


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-159



-Y5-

3:4:55 PM  
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P138855

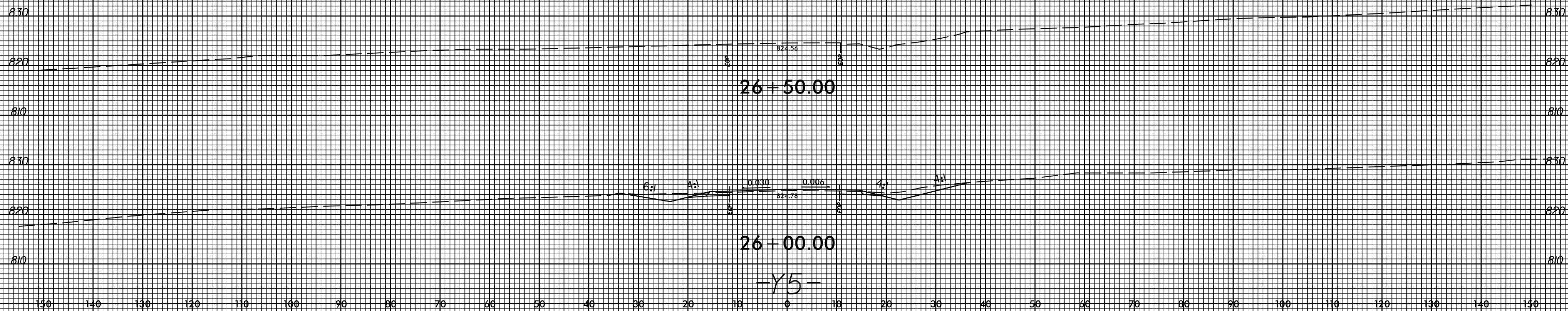
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-160

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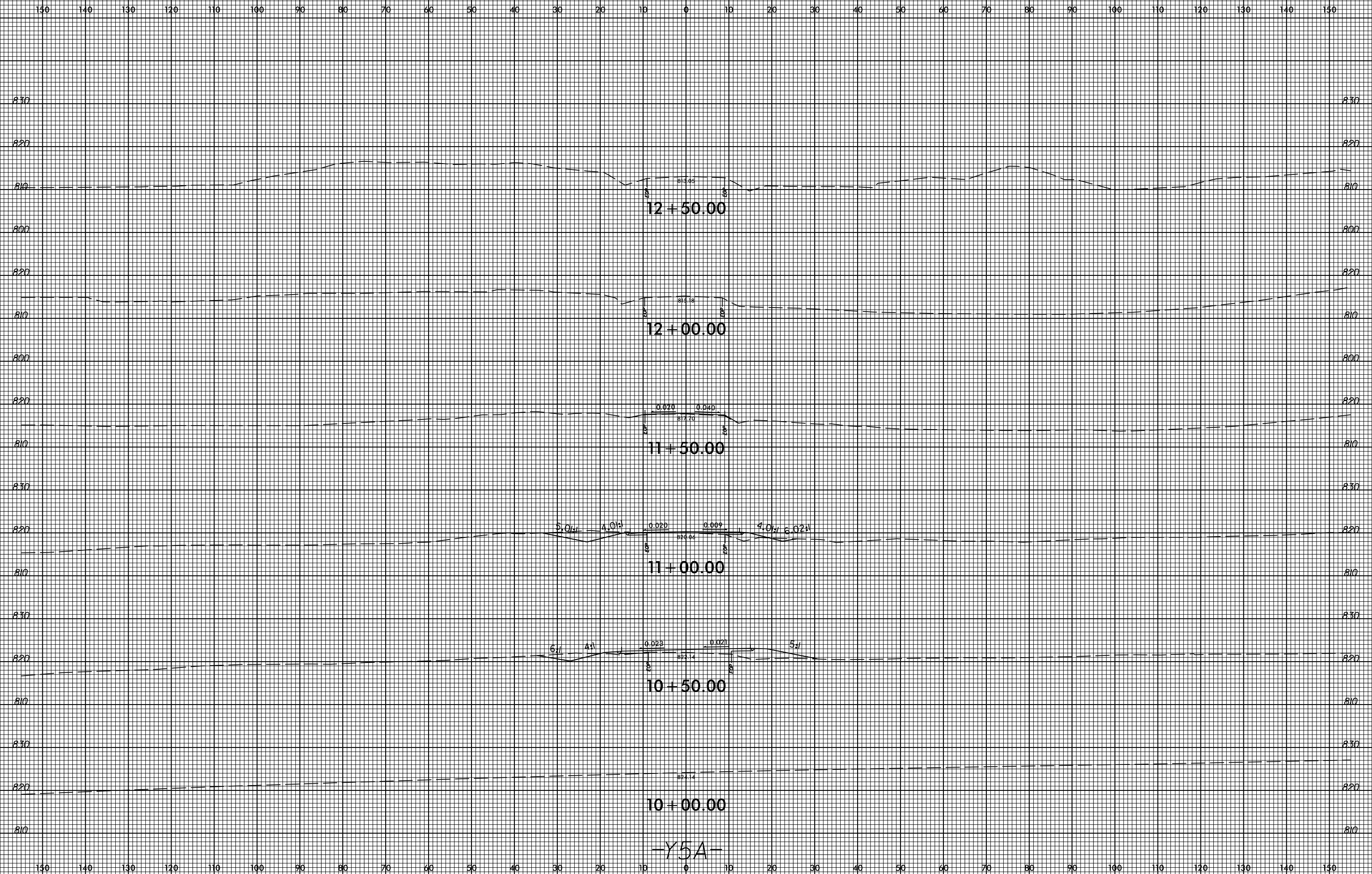
3:4:58 PM  
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 P13855

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-161



12+50.00

12+00.00

11+50.00

11+00.00

10+50.00

10+00.00

-Y5A-

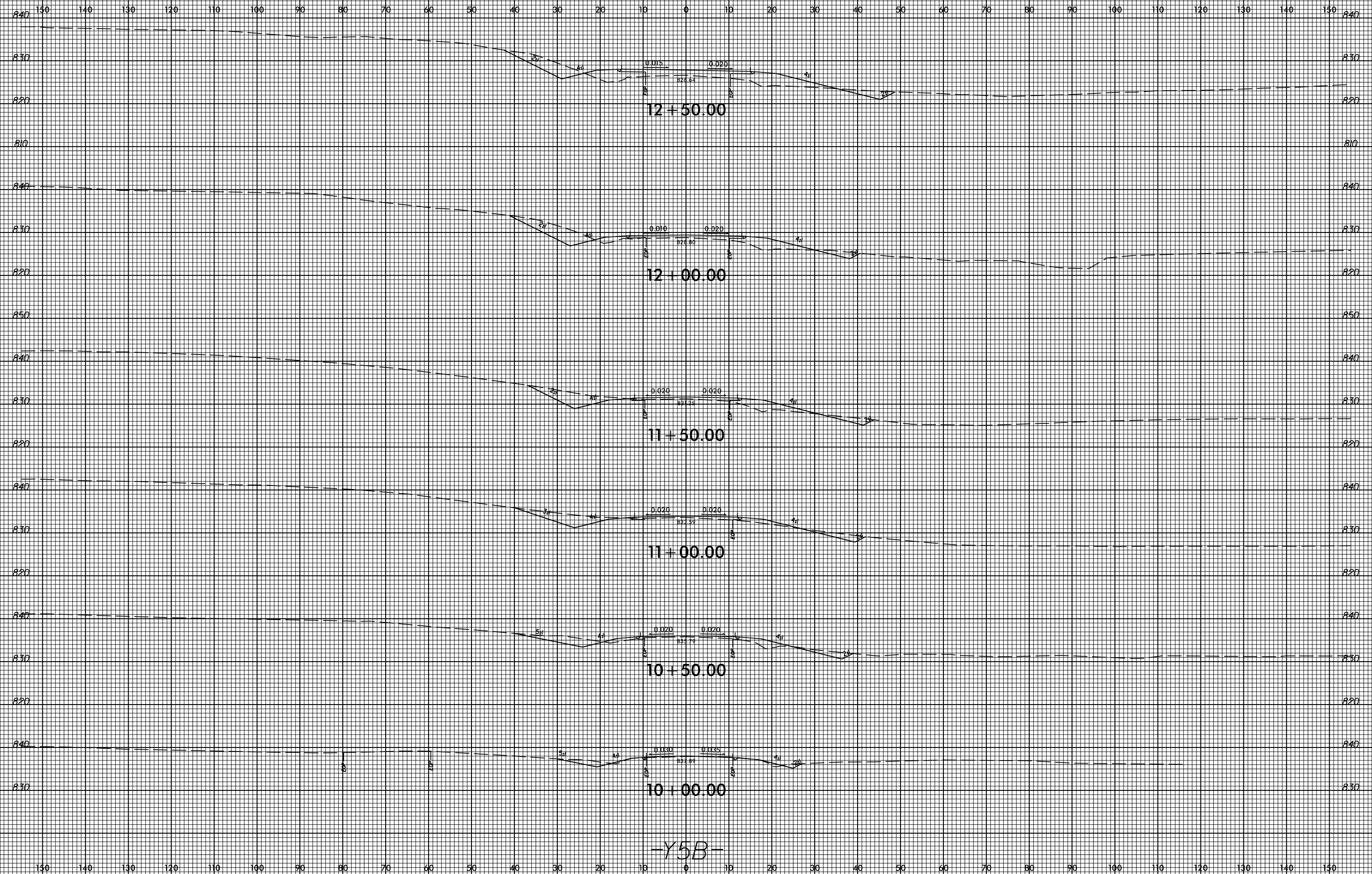
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8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-162



-Y5B-

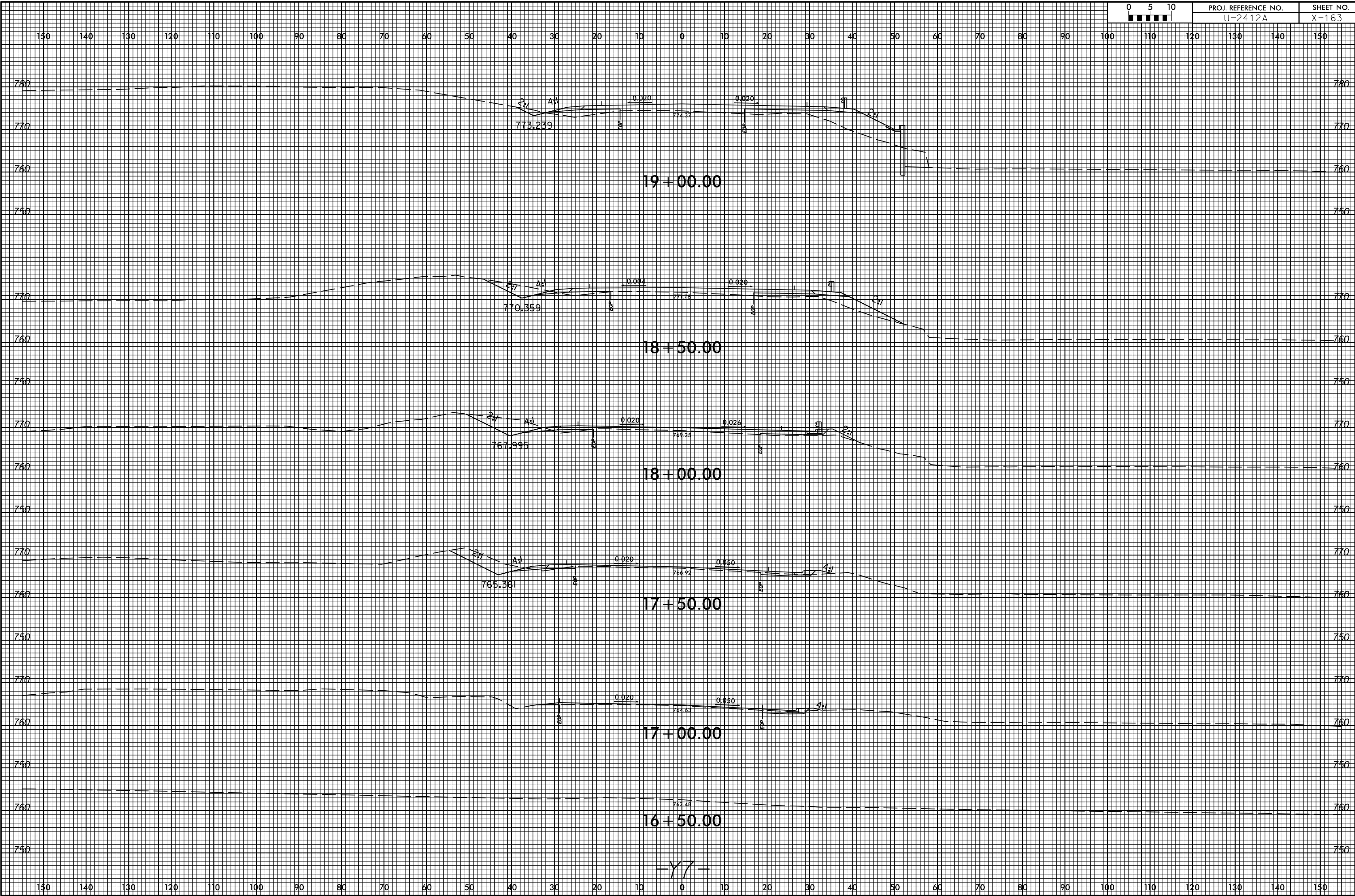
7:30:31 AM  
F:\888888\Xsc\Xpl\U2412a\_rdy\_xpl\_y5b.dgn  
130855

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-163



3:51 PM  
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130855

-Y7-

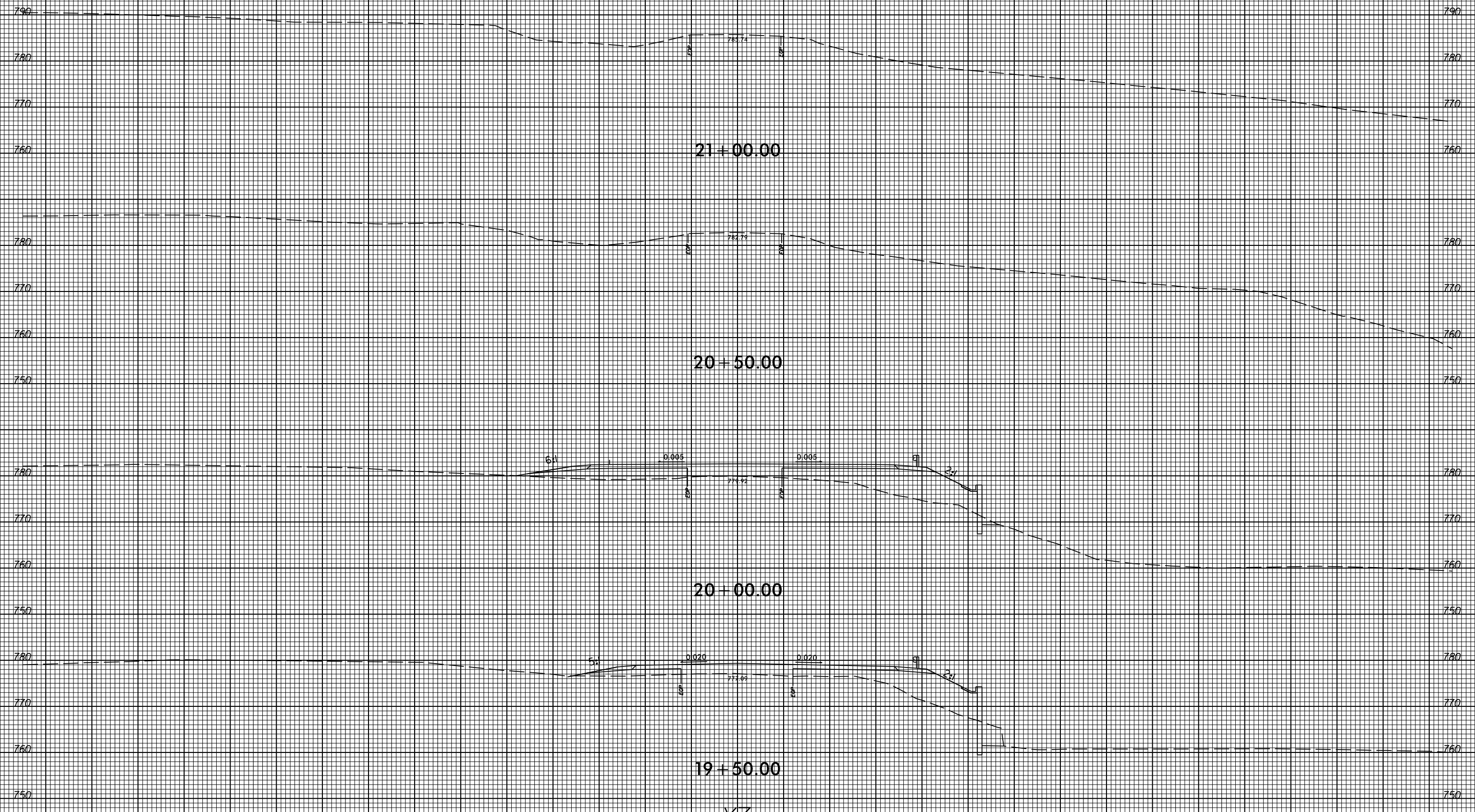
8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-164

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



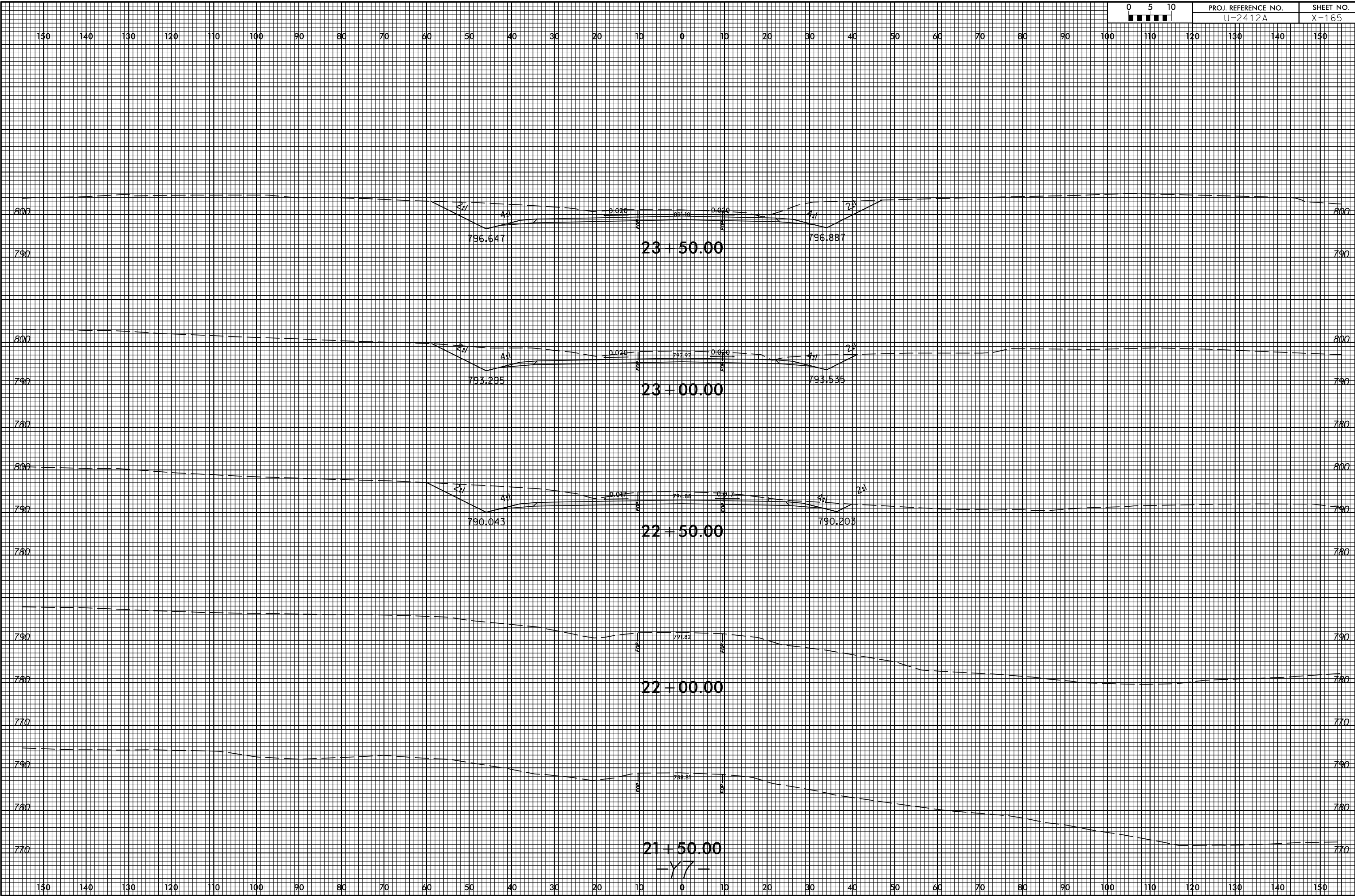
20+00.00

19+50.00

-Y7-

3:51:3 PM  
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P138855

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

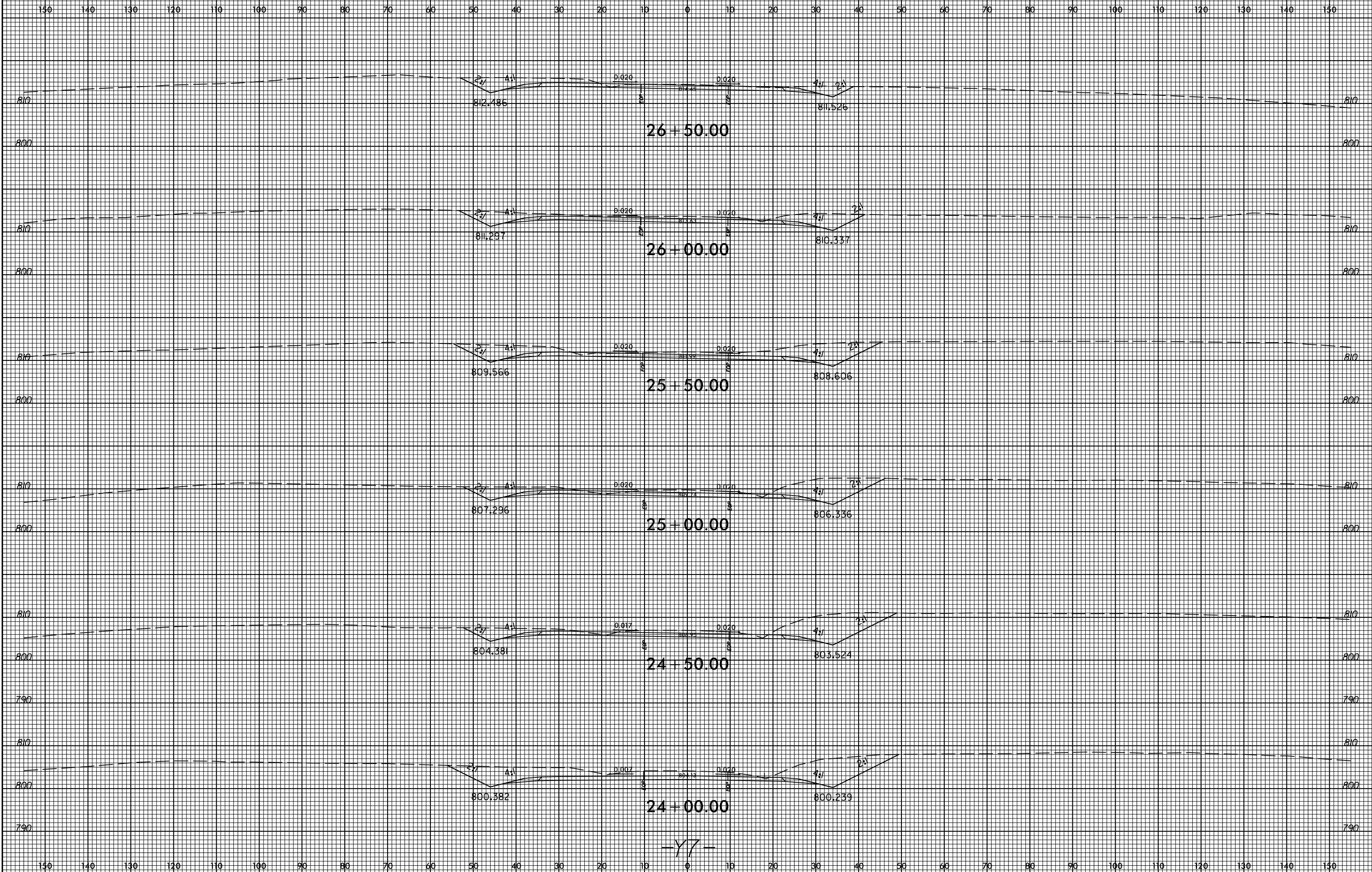


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-166



-Y7-

3:59 PM  
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138855

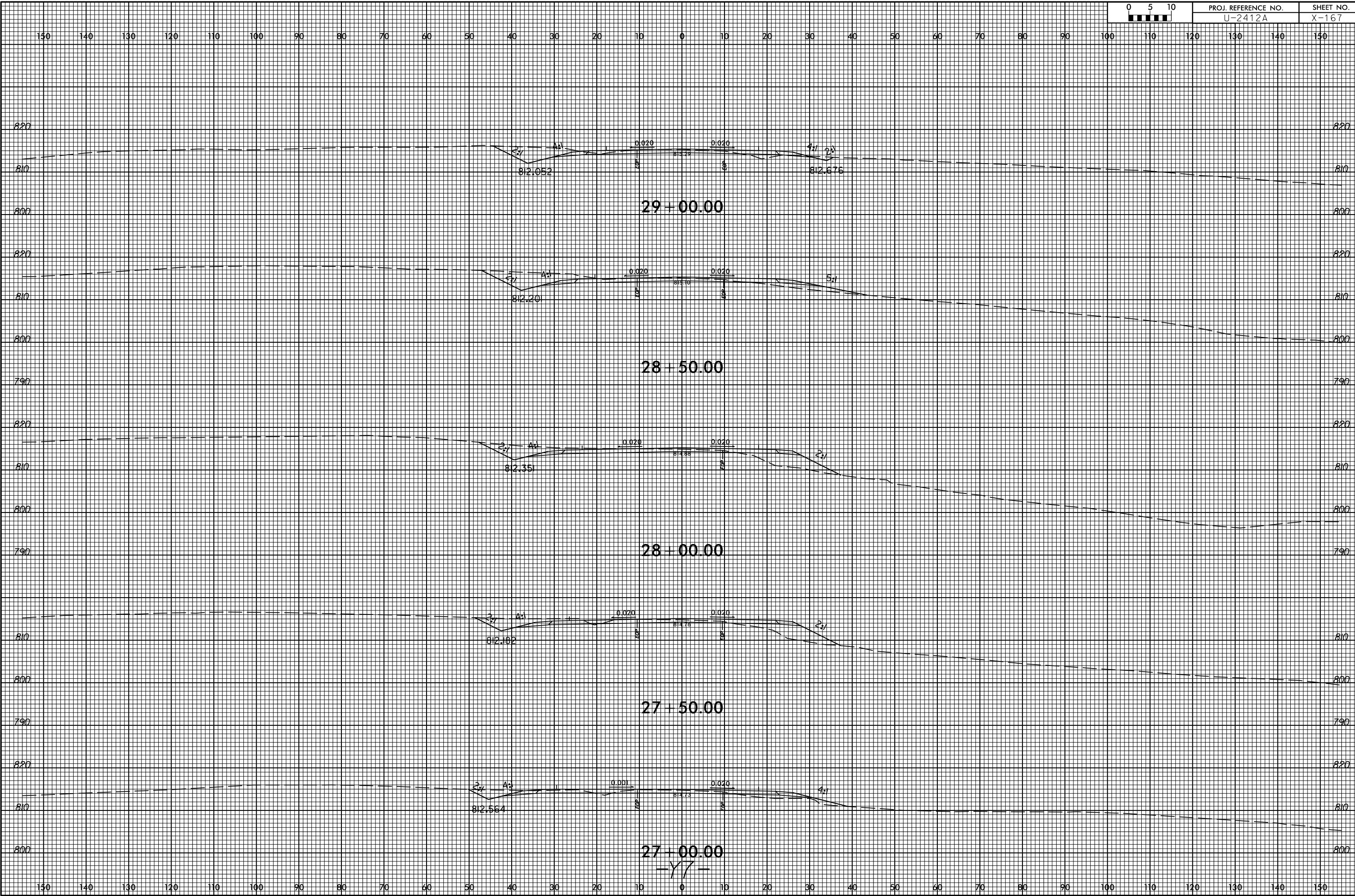


8/23/99

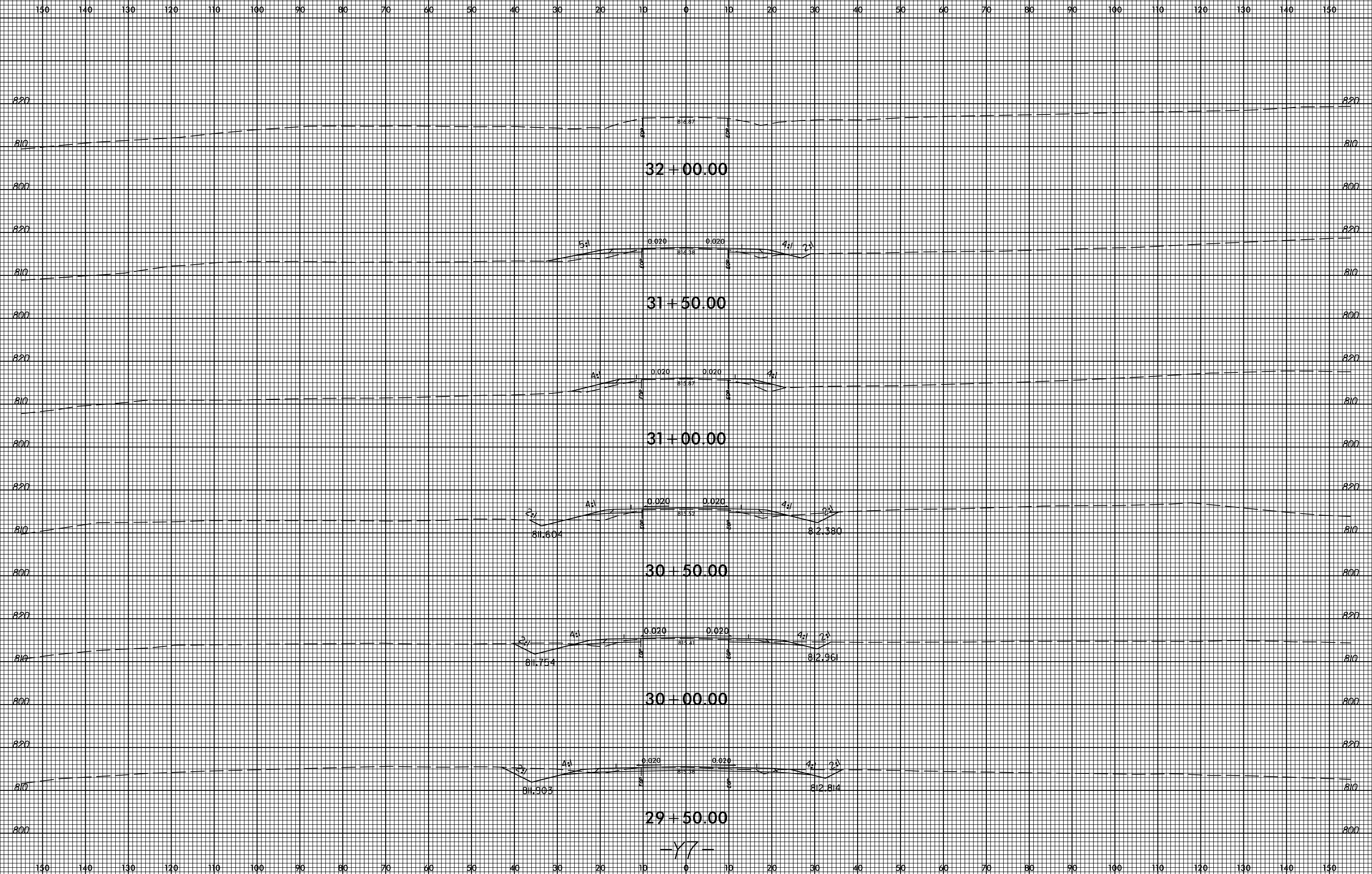


PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-167



3:52:17 PM  
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 P1338355



29+50.00

30+00.00

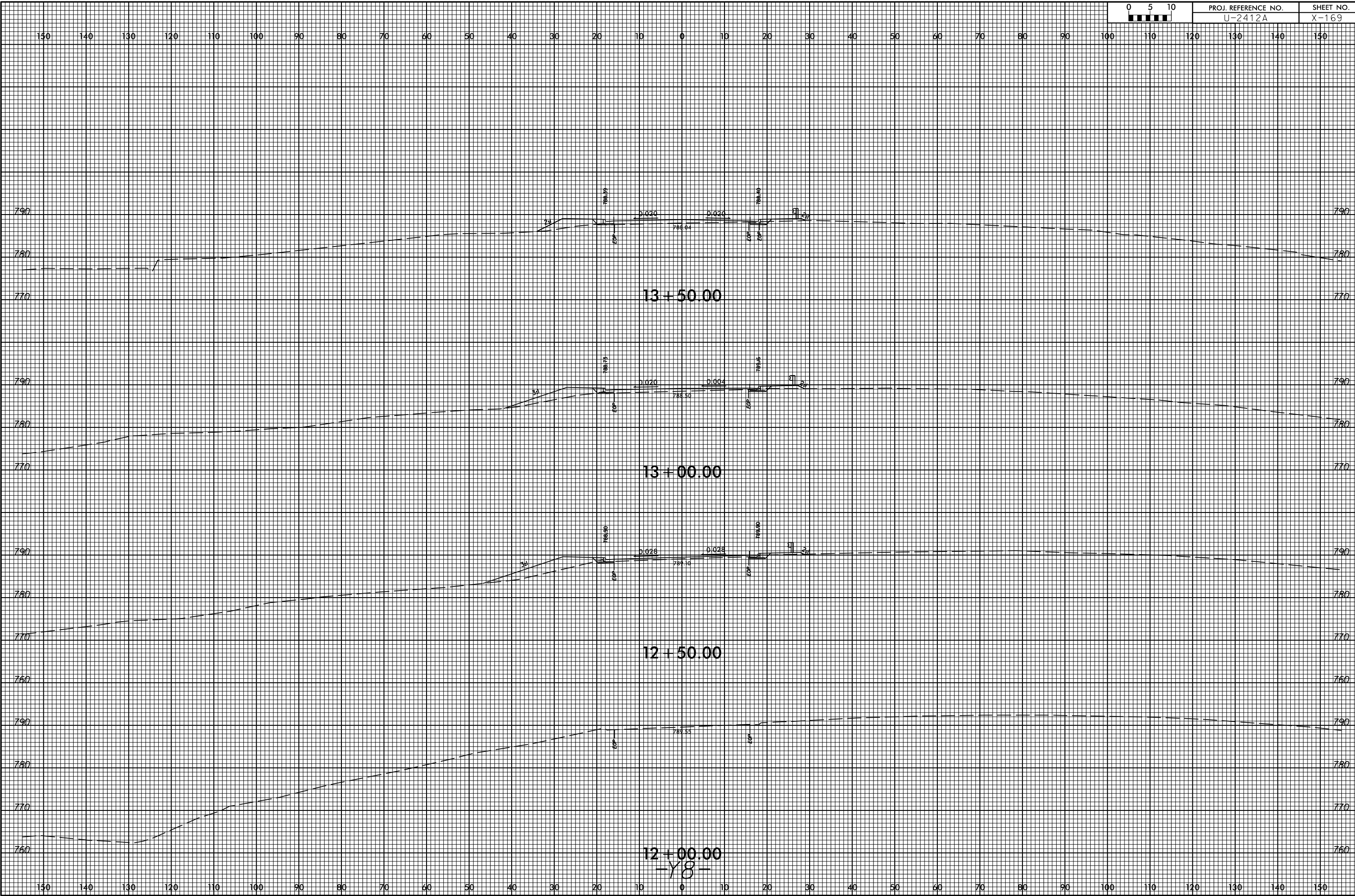
30+50.00

31+00.00

31+50.00

32+00.00

-Y7-

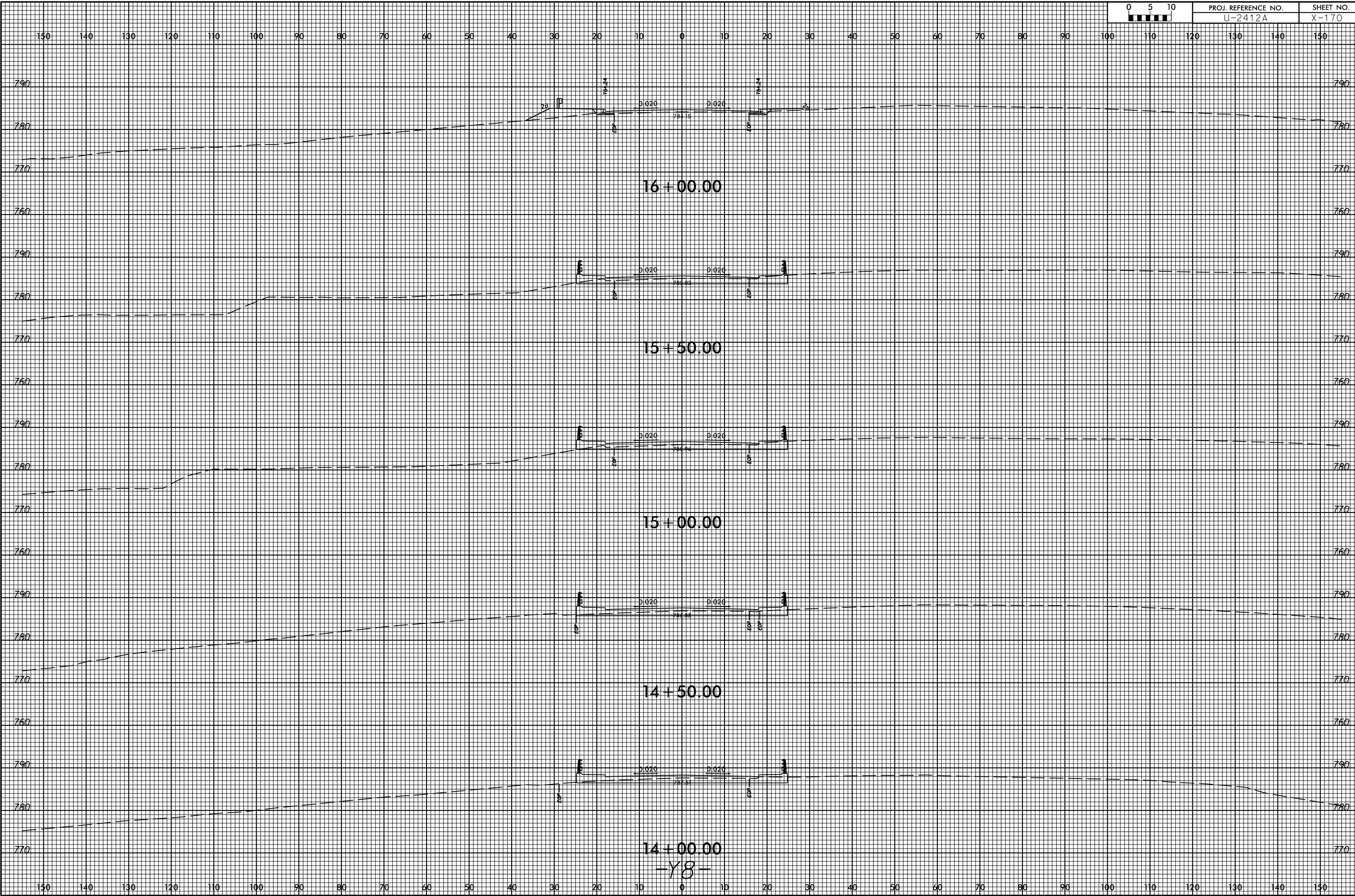


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-170



3:53:30 PM  
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7/13/99

14 + 00.00  
-Y8-

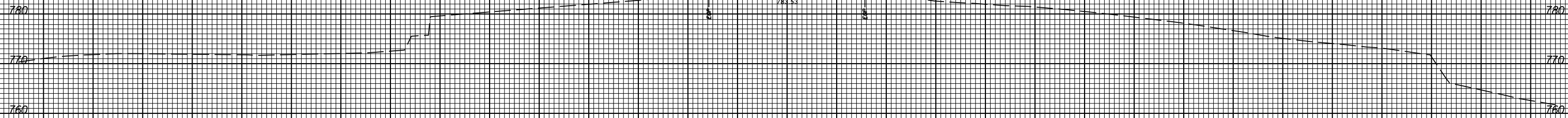
14 + 50.00

15 + 00.00

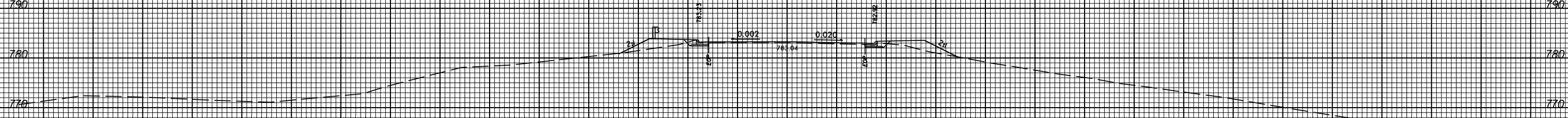
15 + 50.00

16 + 00.00

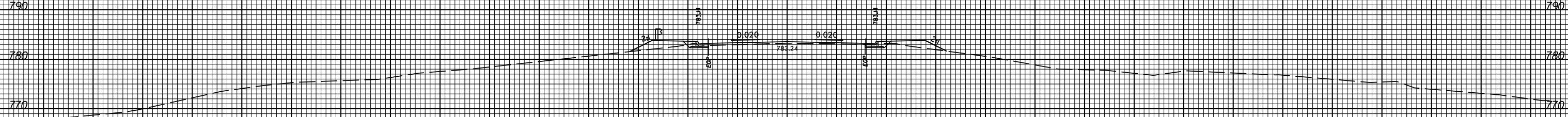
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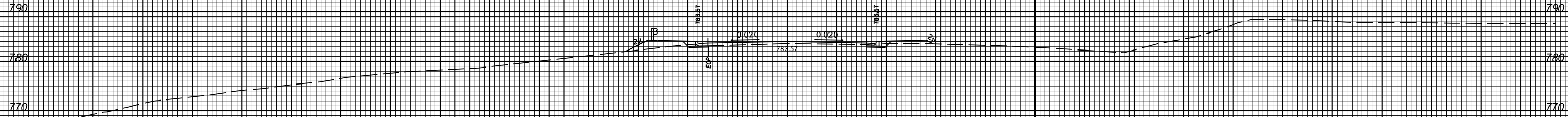
18 + 00.00



17 + 50.00



17 + 00.00



16 + 50.00

-Y8-

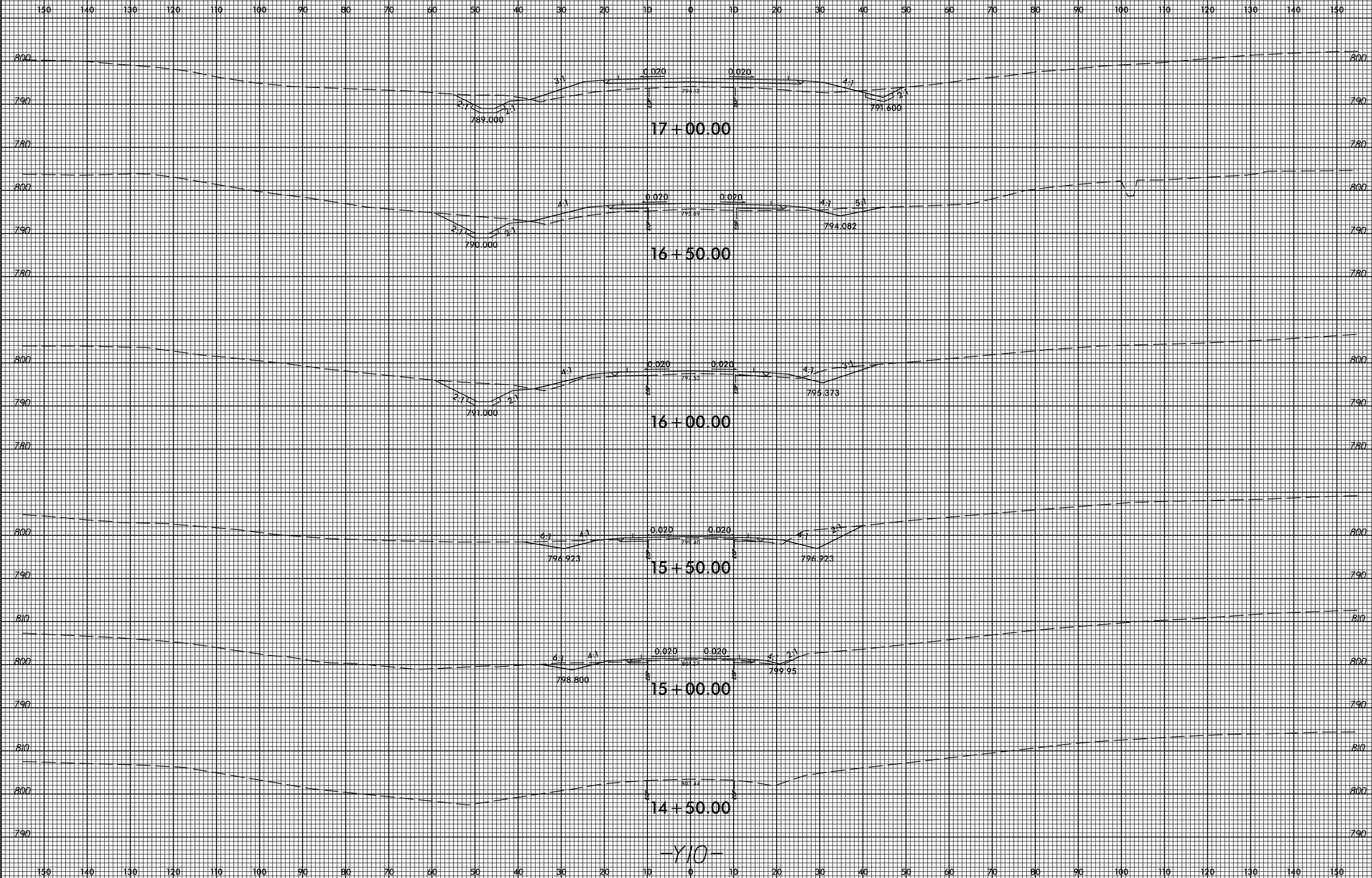
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-172



-Y10-

I:\6:47 PM  
8/23/99  
Xsc\Xp\U2412a\_rdy\_xpl.y10.dgn  
7138355

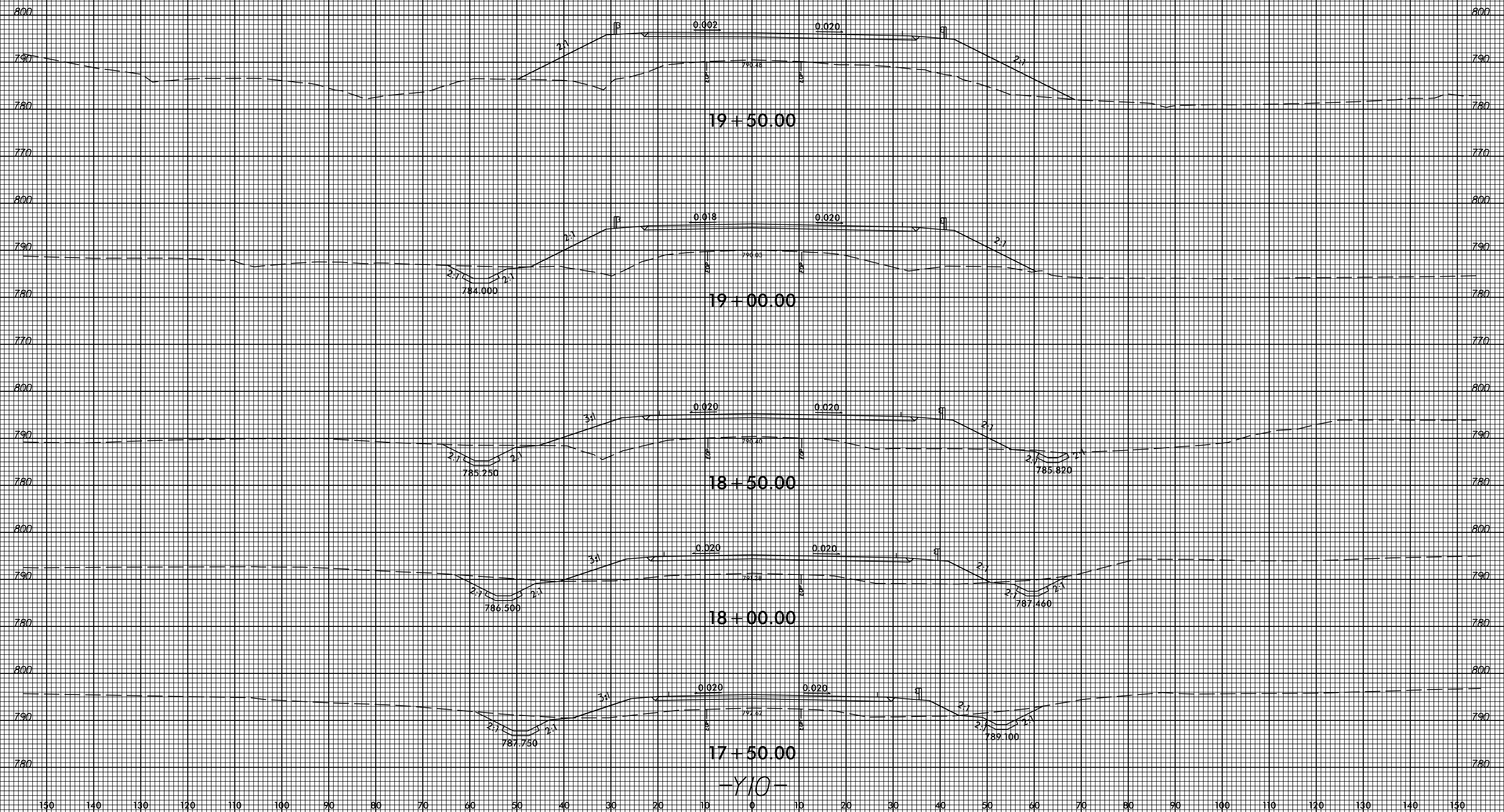
8/23/99



PROJ. REFERENCE NO.  
U-2412A

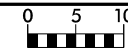
SHEET NO.  
X-173

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



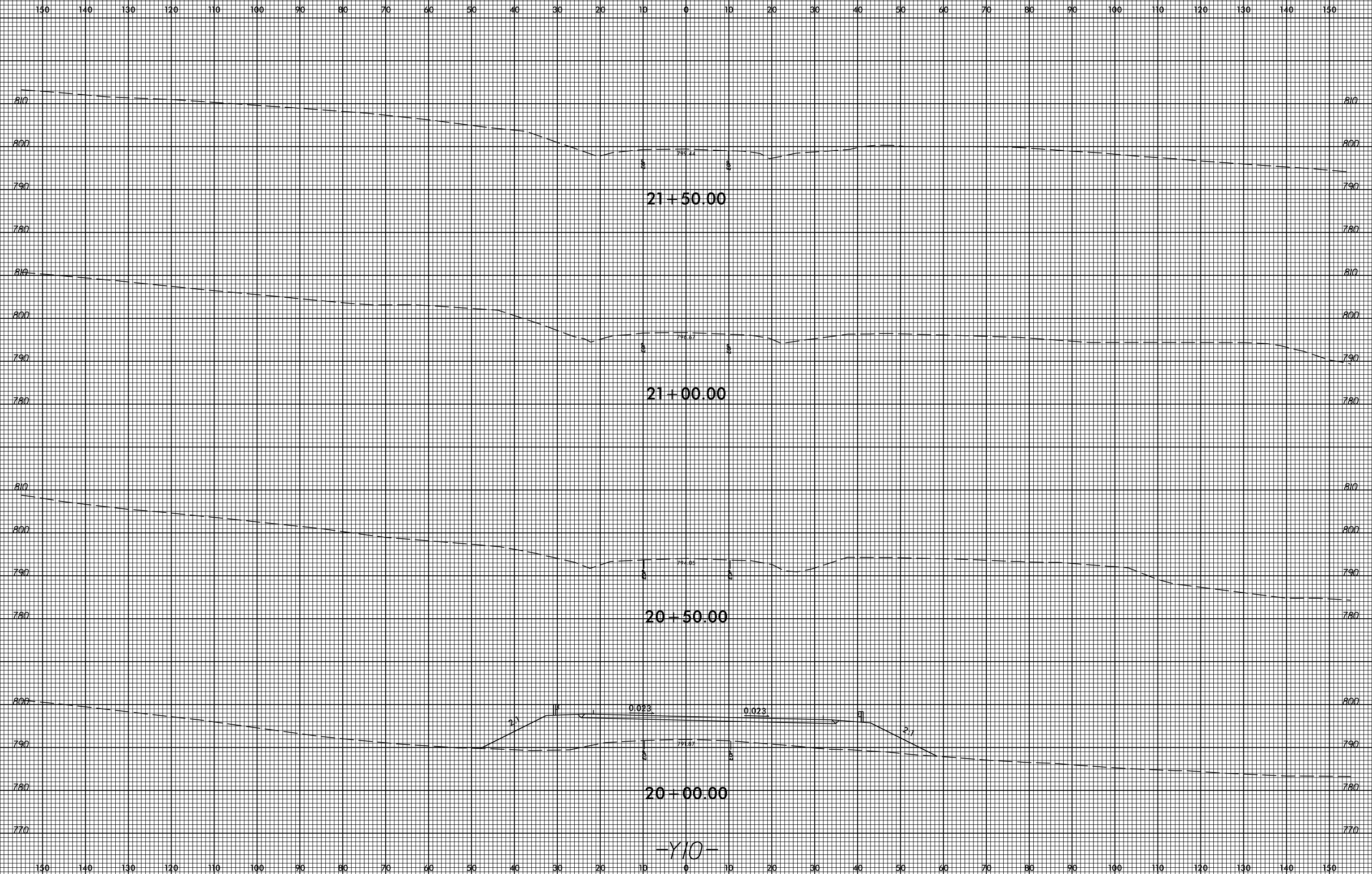
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7/13/99

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-174



I:\6:50 PM  
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7/13/99

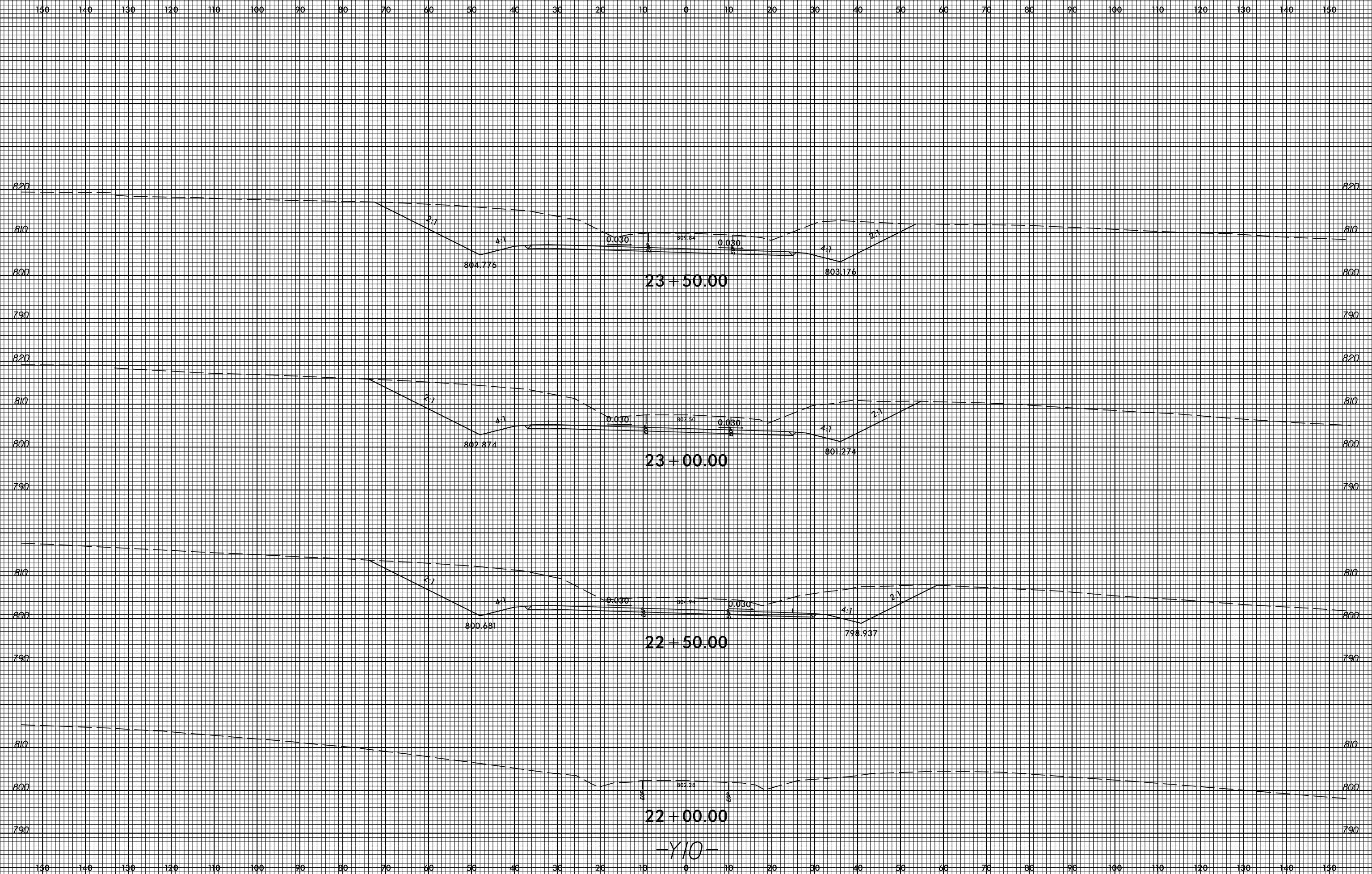


8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-175



-Y10-

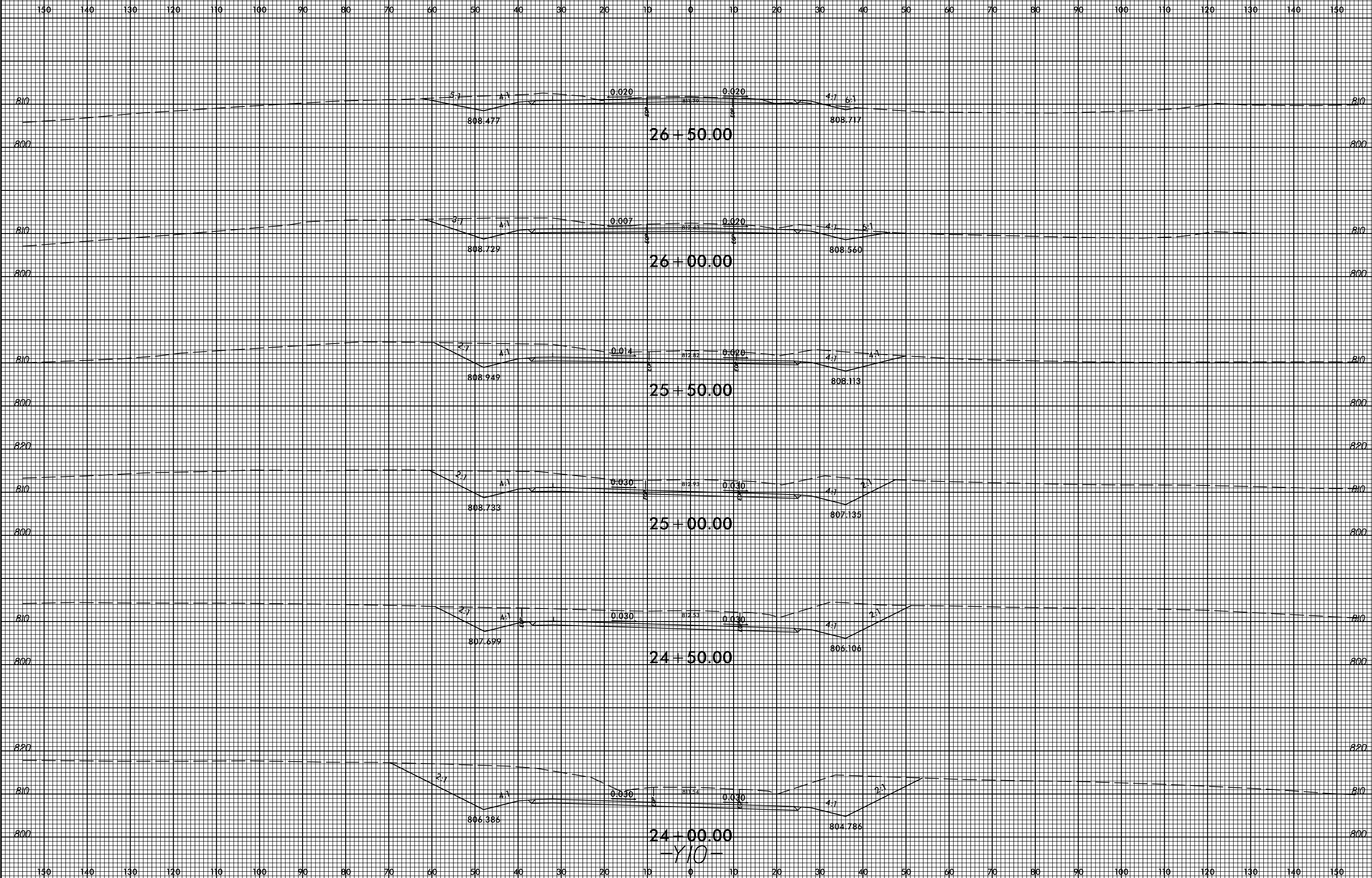
I:\652 PM  
8/23/99  
U-2412A  
X-175

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-176



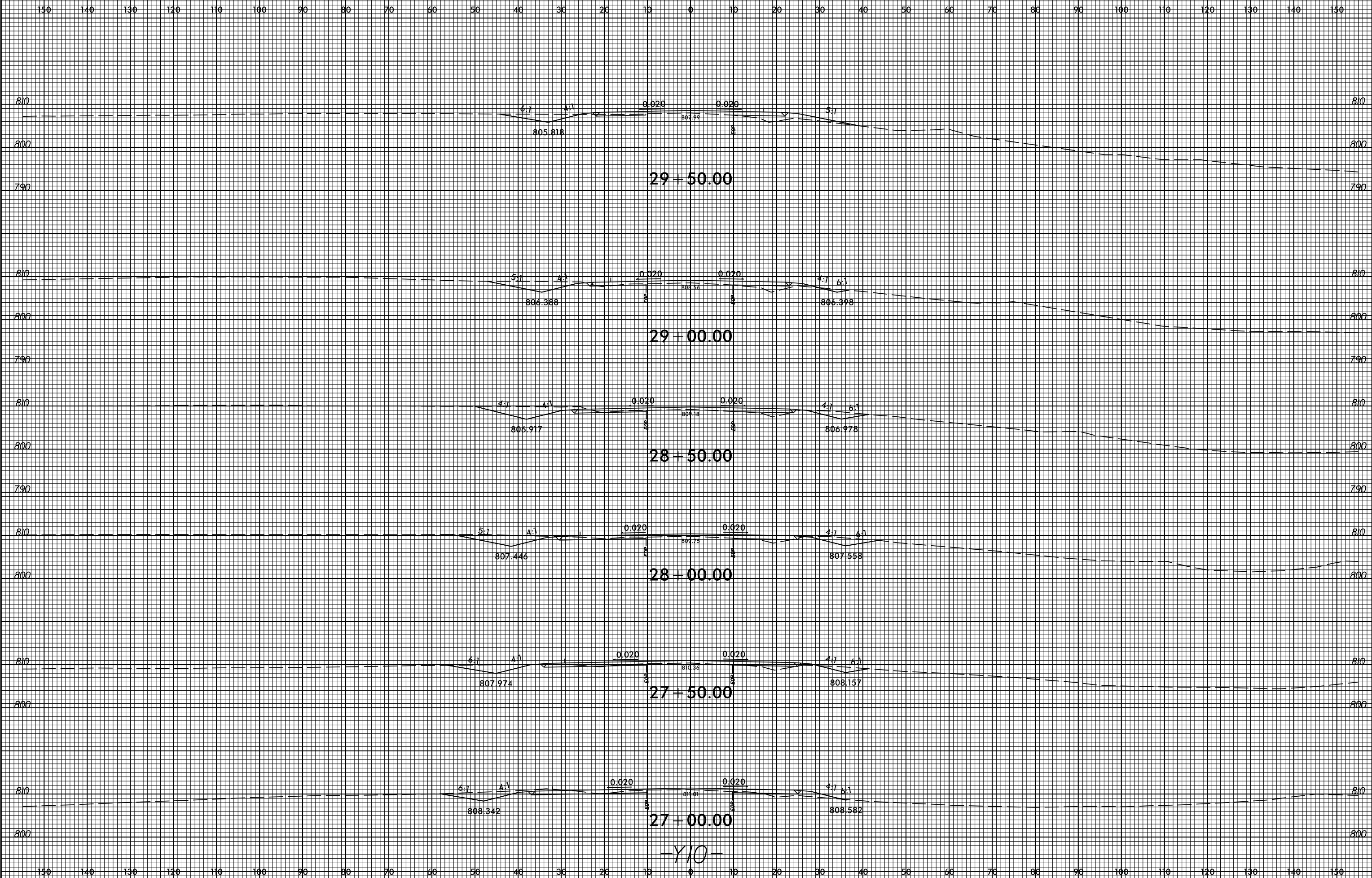
I:\654 PM  
U-2412A.dgn  
Xsc\Xpl\U2412a\_rdy\_xpl.y10.dgn  
7/13/99

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-177



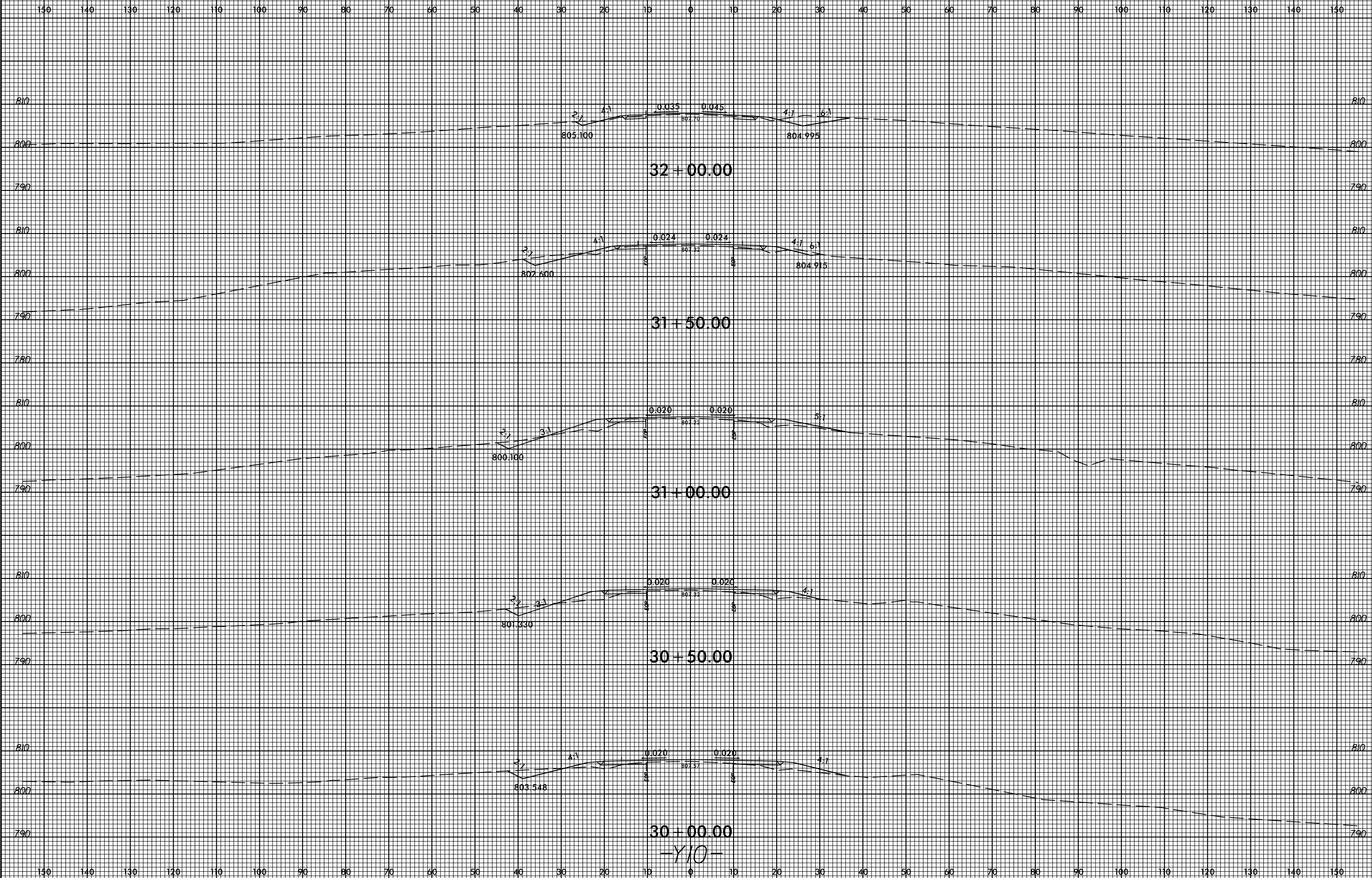
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7/13/99

8/23/99



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-178



30+00.00  
-Y10-

I:\6:58 PM  
8/23/99  
U-2412A  
X-178

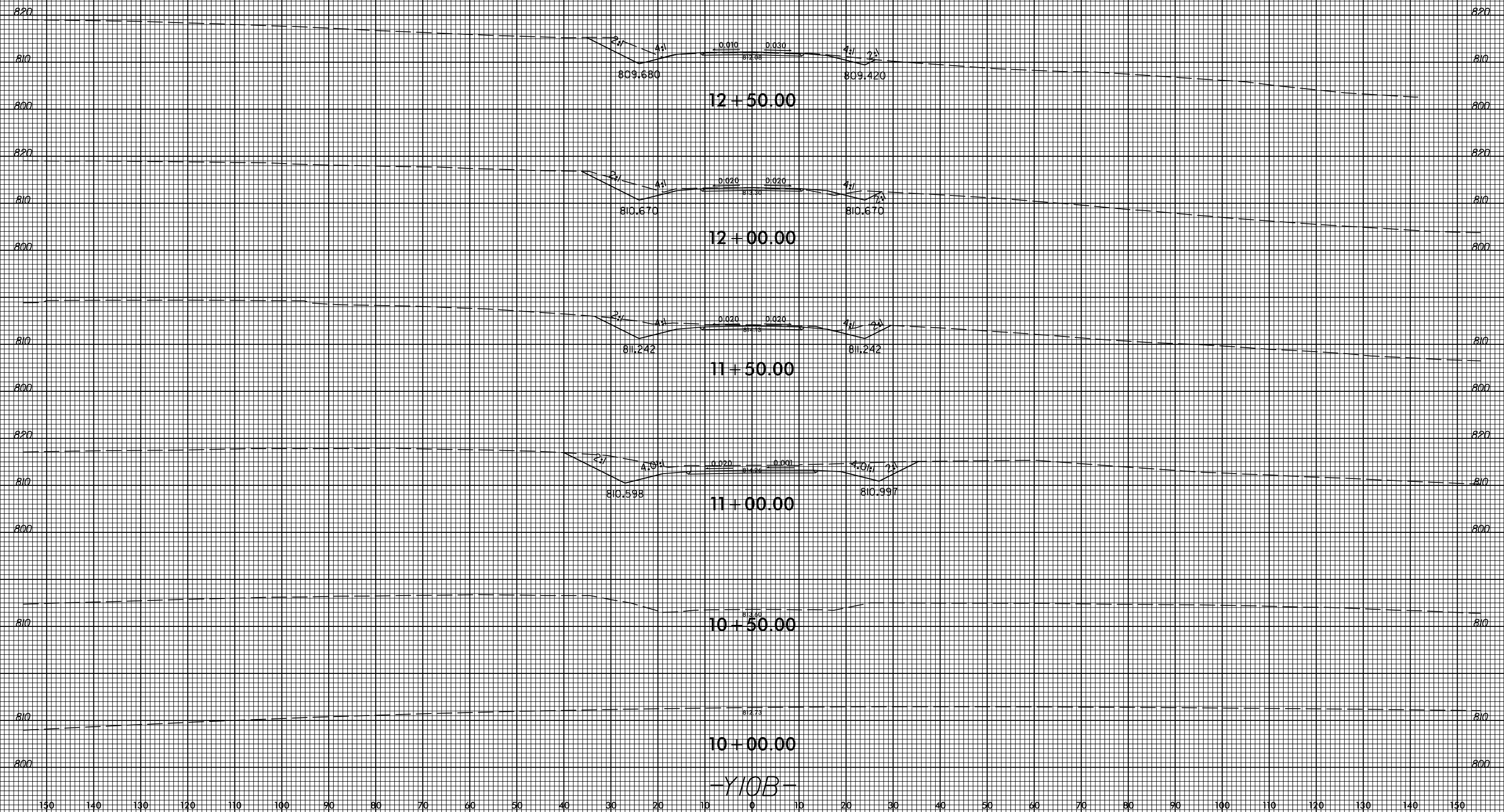
8/23/99



PROJ. REFERENCE NO.  
U-2412A

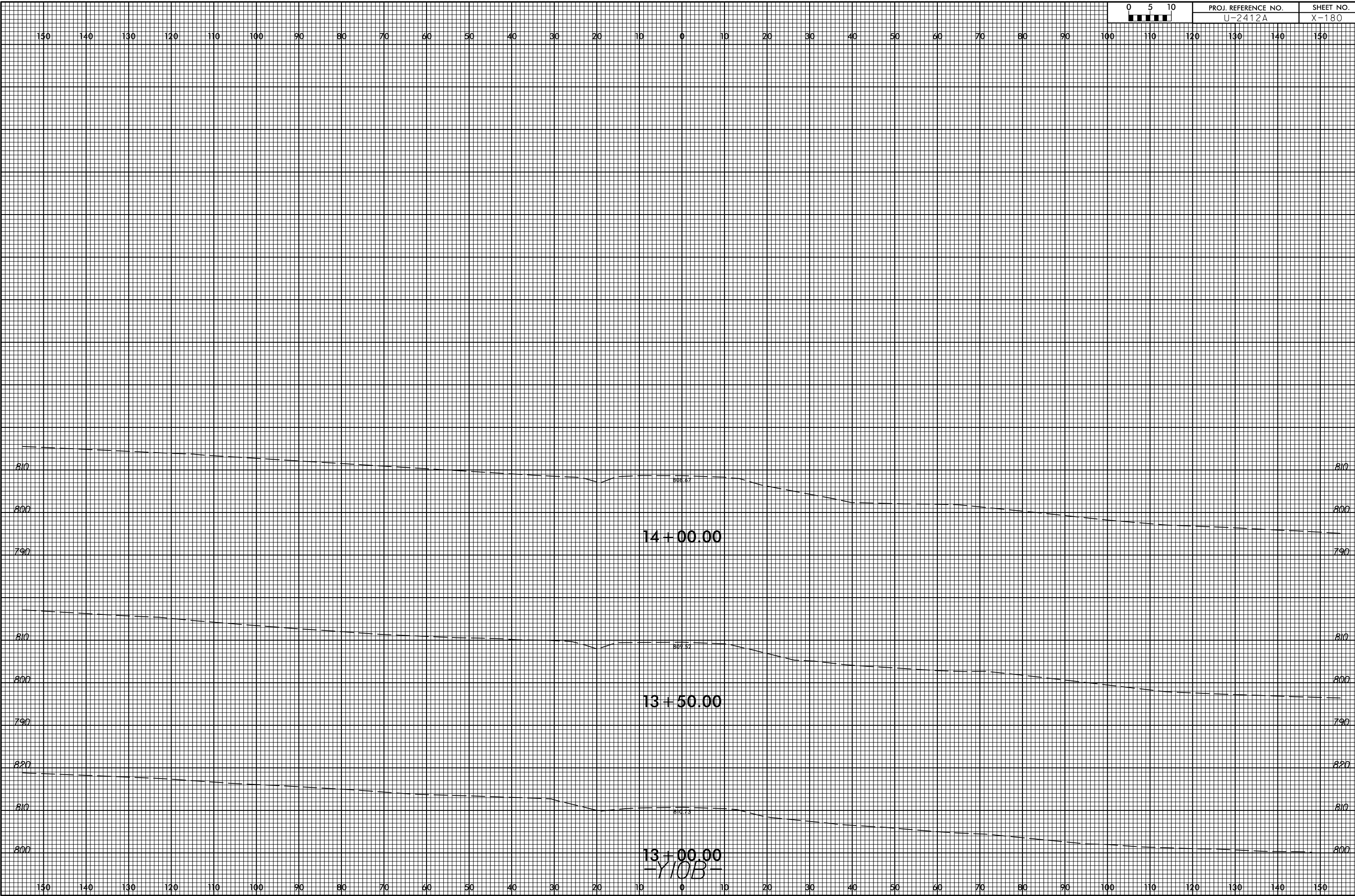
SHEET NO.  
X-179

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

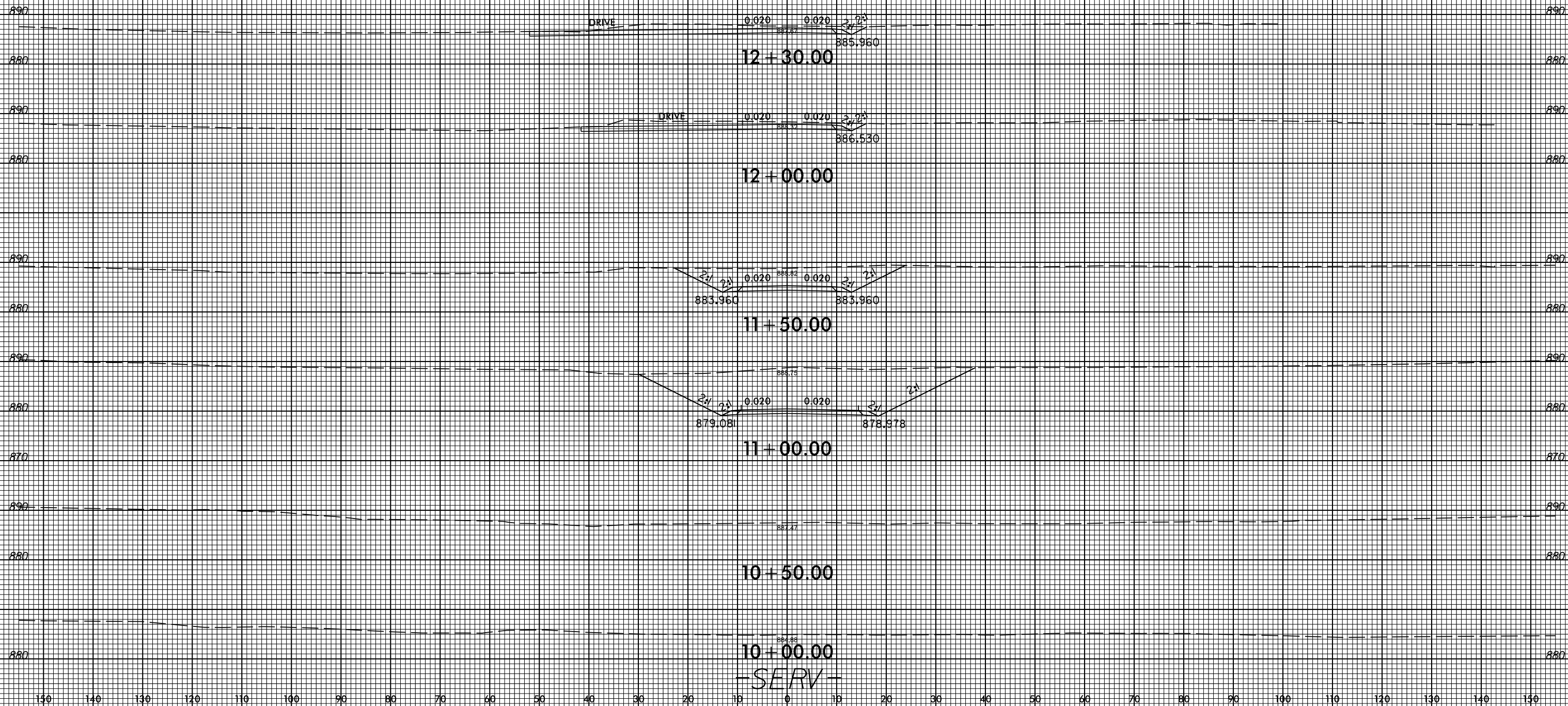


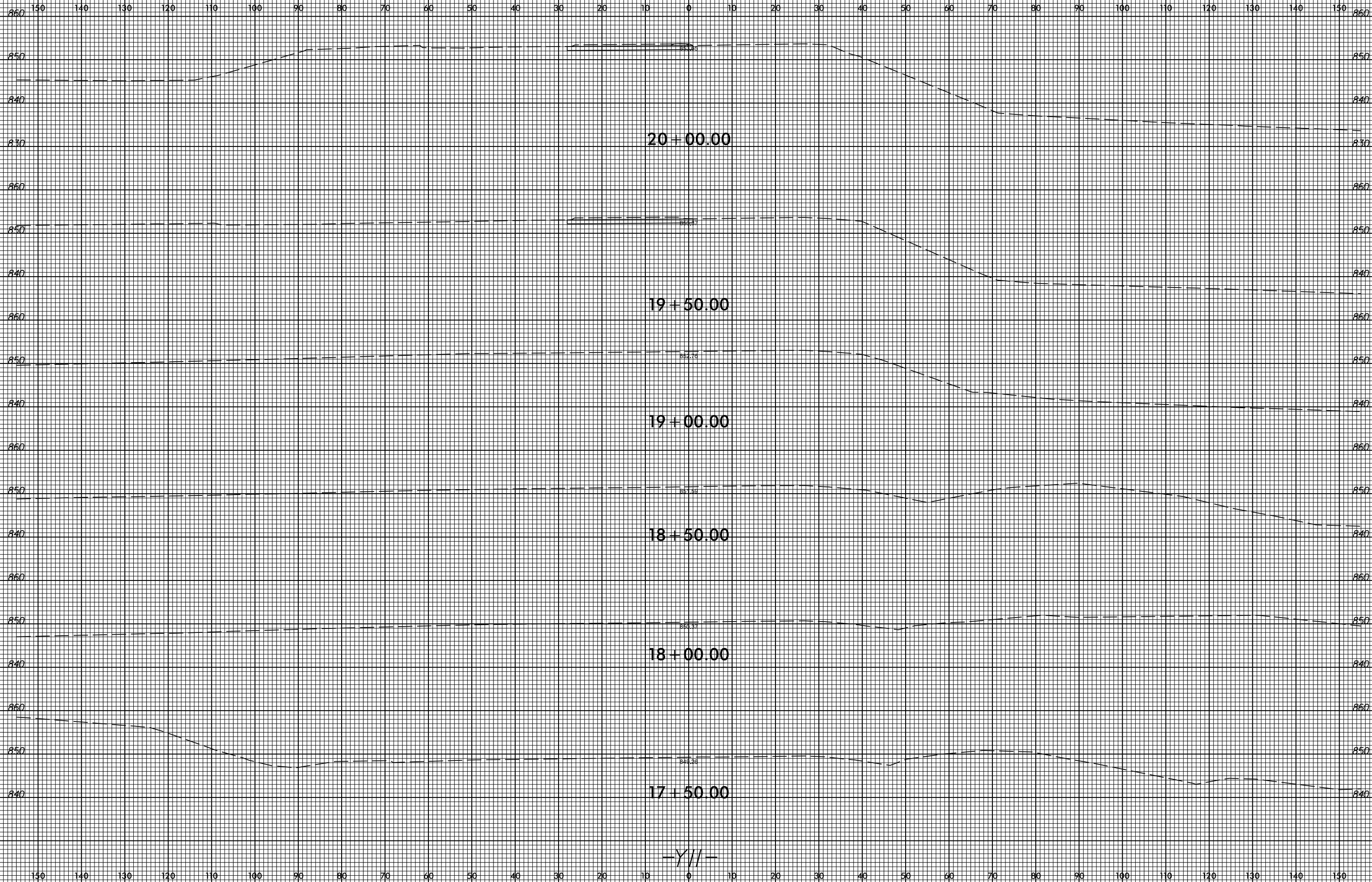
-Y10B-

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P1338355



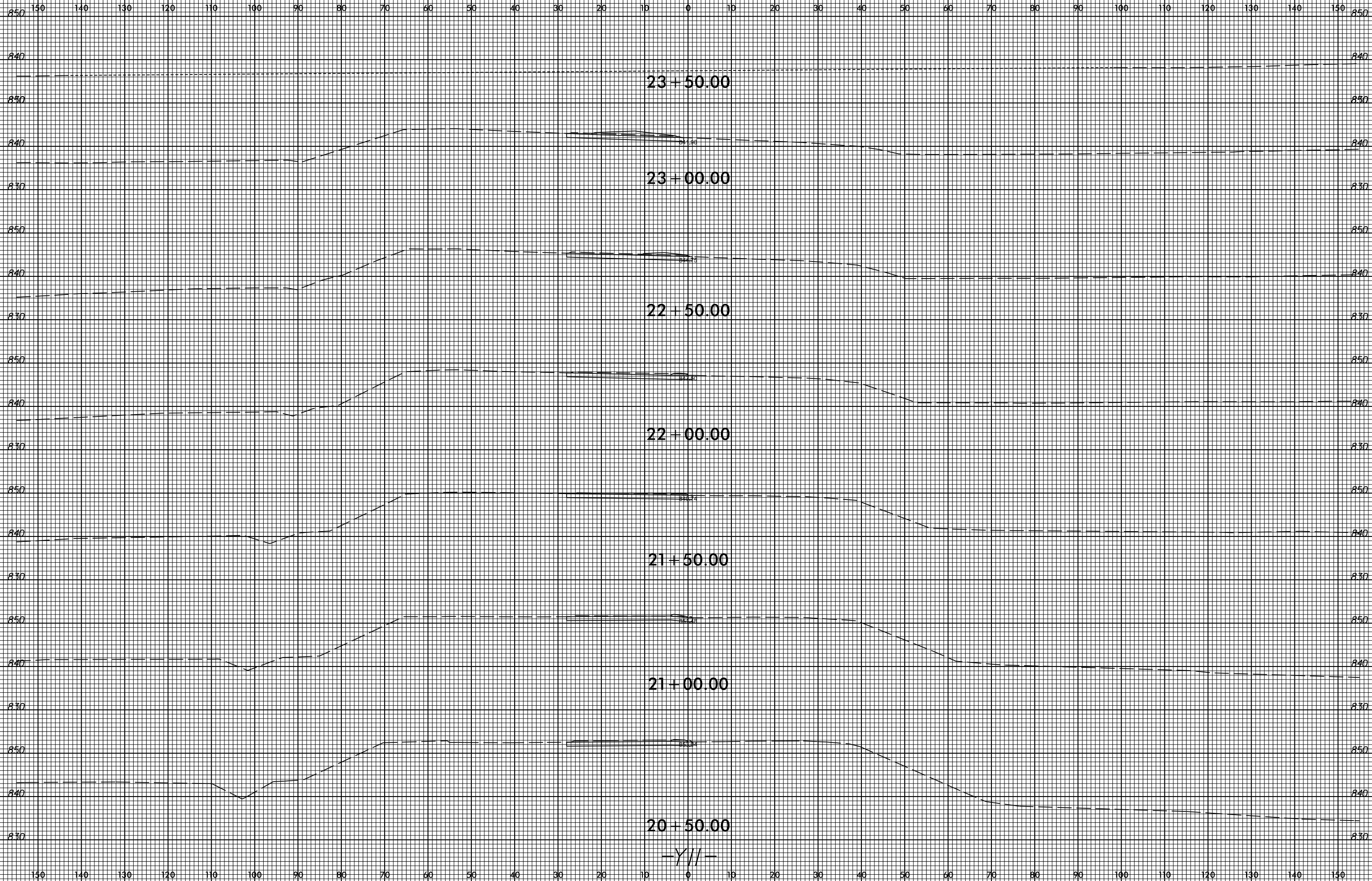
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150





-Y//-





6/23/16



PROJ. REFERENCE NO.  
U-2412A

SHEET NO.  
X-184

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

840

840

830

830

25 + 00.00

850

850

840

840

24 + 50.00

830

830

840

840

24 + 00.00

830

830

-Y//-

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

2:11:55 PM  
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