

# Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: U-5839

COUNTY: Haywood

DATE: 4/27/2023

COMPILED BY: NV5

SHEET 1 OF 3 SHEET

| STATION             | STATION             | EXCAVATION     |      |          |                  | EMBANKMENT        |       |      |       | BORROW | WASTE        |      |          |         |       |
|---------------------|---------------------|----------------|------|----------|------------------|-------------------|-------|------|-------|--------|--------------|------|----------|---------|-------|
|                     |                     | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH |        | EMBANK. +15% | ROCK | SUITABLE | UNSUIT. | TOTAL |
| -L- STA 10+19.45 LT | -L- STA 23+69.90 LT | 182            |      |          | 15               | 167               | 158   |      | 158   | 182    | 15           |      |          | 15      | 15    |
| -L- STA 25+44.37 LT | -L- STA 30+55.00 LT | 936            |      |          |                  | 936               | 121   |      | 121   | 139    |              |      | 797      |         | 797   |
| -L- STA 32+35.00 LT | -L- STA 73+20.00 LT | 3,105          |      |          |                  | 3,105             | 997   |      | 997   | 1,147  |              |      | 1,958    |         | 1,958 |
|                     | <b>SUBTOTAL</b>     | 4,223          |      |          | 15               | 4,208             | 1,276 |      | 1,276 | 1,467  | 15           |      | 2,755    | 15      | 2,770 |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -L- STA 10+19.45 RT | -L- STA 23+69.90 RT | 401            |      |          | 85               | 316               | 98    |      | 98    | 113    |              |      | 203      | 85      | 288   |
| -L- STA 25+44.37 RT | -L- STA 30+55.00 RT | 128            |      |          |                  | 128               | 6,032 |      | 6,032 | 6,937  | 6,809        |      |          |         |       |
| -L- STA 32+35.00 RT | -L- STA 73+20.00 RT | 2,686          |      |          |                  | 2,686             | 1,559 |      | 1,559 | 1,793  |              |      | 893      |         | 893   |
|                     | <b>SUBTOTAL</b>     | 3,215          |      |          | 85               | 3,130             | 7,689 |      | 7,689 | 8,842  | 6,809        |      | 1,096    | 85      | 1,181 |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y2- STA 10+12.04   | -Y2- STA 11+50.00   | 44             |      |          |                  | 44                |       |      |       |        |              |      | 44       |         | 44    |
|                     | <b>SUBTOTAL</b>     | 44             |      |          |                  | 44                |       |      |       |        |              |      | 44       |         | 44    |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y2A- STA 14+00.00  | -Y2A- STA 15+10.91  | 28             |      |          |                  | 28                | 6     |      | 6     | 7      |              |      | 21       |         | 21    |
|                     | <b>SUBTOTAL</b>     | 28             |      |          |                  | 28                | 6     |      | 6     | 7      |              |      | 21       |         | 21    |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y3- STA 15+00.00   | -Y3- STA 16+75.28   | 41             |      |          |                  | 41                | 26    |      | 26    | 30     |              |      | 11       |         | 11    |
|                     | <b>SUBTOTAL</b>     | 41             |      |          |                  | 41                | 26    |      | 26    | 30     |              |      | 11       |         | 11    |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y4- STA 10+14.04   | -Y4- STA 11+00.00   | 11             |      |          |                  | 11                | 8     |      | 8     | 9      |              |      | 2        |         | 2     |
|                     | <b>SUBTOTAL</b>     | 11             |      |          |                  | 11                | 8     |      | 8     | 9      |              |      | 2        |         | 2     |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y5- STA 10+45.25   | -Y5- STA 11+52.00   | 21             |      |          |                  | 21                | 32    |      | 32    | 37     | 16           |      |          |         |       |
|                     | <b>SUBTOTAL</b>     | 21             |      |          |                  | 21                | 32    |      | 32    | 37     | 16           |      |          |         |       |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y6- STA 14+45.00   | -Y6- STA 16+95.00   | 7,761          |      |          |                  | 7,761             |       |      |       |        |              |      | 7,761    |         | 7,761 |
|                     | <b>SUBTOTAL</b>     | 7,761          |      |          |                  | 7,761             |       |      |       |        |              |      | 7,761    |         | 7,761 |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y7- STA 14+20.00   | -Y7- STA 16+00.87   | 341            |      |          |                  | 341               | 17    |      | 17    | 20     |              |      | 321      |         | 321   |
|                     | <b>SUBTOTAL</b>     | 341            |      |          |                  | 341               | 17    |      | 17    | 20     |              |      | 321      |         | 321   |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |       |
| -Y8- STA 10+20.00   | -Y8- STA 10+75.00   | 28             |      |          |                  | 28                |       |      |       |        |              |      | 28       |         | 28    |
|                     | <b>SUBTOTAL</b>     | 28             |      |          |                  | 28                |       |      |       |        |              |      | 28       |         | 28    |

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SHEET 2 OF 3 SHEET

| STATION             | STATION             | EXCAVATION     |      |          |                  | EMBANKMENT        |       |      |       | BORROW | WASTE        |      |          |         |
|---------------------|---------------------|----------------|------|----------|------------------|-------------------|-------|------|-------|--------|--------------|------|----------|---------|
|                     |                     | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL | ROCK | EARTH |        | EMBANK. +15% | ROCK | SUITABLE | UNSUIT. |
| -Y9- STA 11+30.00   | -Y9- STA 16+36.62   | 225            |      |          |                  | 225               | 256   | 256  | 294   | 69     |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 225            |      |          |                  | 225               | 256   | 256  | 294   | 69     |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y10- STA 10+37.92  | -Y10- STA 13+84.00  | 69             |      |          |                  | 69                | 142   | 142  | 163   | 94     |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 69             |      |          |                  | 69                | 142   | 142  | 163   | 94     |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y11- STA 11+20.00  | -Y11- STA 11+78.42  | 12             |      |          |                  | 12                | 3     | 3    | 3     |        |              | 9    |          | 9       |
|                     | <b>SUBTOTAL</b>     | 12             |      |          |                  | 12                | 3     | 3    | 3     |        |              | 9    |          | 9       |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y13- STA 10+35.80  | -Y13- STA 12+00.00  | 54             |      |          |                  | 54                | 15    | 15   | 17    |        |              | 37   |          | 37      |
|                     | <b>SUBTOTAL</b>     | 54             |      |          |                  | 54                | 15    | 15   | 17    |        |              | 37   |          | 37      |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y14- STA 10+72.00  | -Y14- STA 13+66.02  | 109            |      |          |                  | 109               | 114   | 114  | 131   | 22     |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 109            |      |          |                  | 109               | 114   | 114  | 131   | 22     |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y14A- STA 10+44.80 | -Y14A- STA 12+95.00 | 404            |      |          |                  | 404               | 44    | 44   | 51    |        |              | 353  |          | 353     |
|                     | <b>SUBTOTAL</b>     | 404            |      |          |                  | 404               | 44    | 44   | 51    |        |              | 353  |          | 353     |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y15- STA 10+54.05  | -Y15- STA 11+74.00  | 58             |      |          |                  | 58                | 78    | 78   | 90    | 32     |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 58             |      |          |                  | 58                | 78    | 78   | 90    | 32     |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y16- STA 15+95.00  | -Y16- STA 17+62.40  | 19             |      |          |                  | 19                | 47    | 47   | 54    | 35     |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 19             |      |          |                  | 19                | 47    | 47   | 54    | 35     |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y17- STA 10+35.77  | -Y17- STA 11+42.27  | 41             |      |          |                  | 41                | 421   | 421  | 484   | 443    |              |      |          |         |
|                     | <b>SUBTOTAL</b>     | 41             |      |          |                  | 41                | 421   | 421  | 484   | 443    |              |      |          |         |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y18- STA 10+35.79  | -Y18- STA 11+86.00  | 114            |      |          |                  | 114               | 5     | 5    | 6     |        |              | 108  |          | 108     |
|                     | <b>SUBTOTAL</b>     | 114            |      |          |                  | 114               | 5     | 5    | 6     |        |              | 108  |          | 108     |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |
| -Y20- STA 11+88.00  | -Y20- STA 12+16.44  | 21             |      |          |                  | 21                |       |      |       |        |              | 21   |          | 21      |
|                     | <b>SUBTOTAL</b>     | 21             |      |          |                  | 21                |       |      |       |        |              | 21   |          | 21      |
|                     |                     |                |      |          |                  |                   |       |      |       |        |              |      |          |         |

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SHEET 3 OF 3 SHEET

| STATION  | STATION                   | EXCAVATION     |      |          |                  |                   | EMBANKMENT |      |        |              | BORROW | WASTE |          |         |        |
|--|---------------------------|----------------|------|----------|------------------|-------------------|------------|------|--------|--------------|--------|-------|----------|---------|--------|
|  |                           | TOTAL UNCLASS. | ROCK | UNDERCUT | UNSUIT. UNCLASS. | SUITABLE UNCLASS. | TOTAL      | ROCK | EARTH  | EMBANK. +15% |        | ROCK  | SUITABLE | UNSUIT. | TOTAL  |
| -Y21LPB- STA 16+50.00                            | -Y21LPB- STA 19+60.81     | 230            |      |          |                  | 230               | 283        |      | 283    | 325          | 95     |       |          |         |        |
|  | <b>SUBTOTAL</b>           | 230            |      |          |                  | 230               | 283        |      | 283    | 325          | 95     |       |          |         |        |
|  |                           |                |      |          |                  |                   |            |      |        |              |        |       |          |         |        |
| -Y21RPA- STA 13+04.00                            | -Y21RPA- STA 14+66.26     | 69             |      |          |                  | 69                | 114        |      | 114    | 131          | 62     |       |          |         |        |
|  | <b>SUBTOTAL</b>           | 69             |      |          |                  | 69                | 114        |      | 114    | 131          | 62     |       |          |         |        |
|  |                           |                |      |          |                  |                   |            |      |        |              |        |       |          |         |        |
| -Y21RPB- STA 13+05.00                            | -Y21RPB- STA 16+55.24     | 219            |      |          |                  | 219               | 329        |      | 329    | 378          | 159    |       |          |         |        |
|  | <b>SUBTOTAL</b>           | 219            |      |          |                  | 219               | 329        |      | 329    | 378          | 159    |       |          |         |        |
|  |                           |                |      |          |                  |                   |            |      |        |              |        |       |          |         |        |
| -Y21RPD & LPD- STA 13+75.00                      | -Y21RPD&LPD- STA 19+92.16 | 2,975          |      |          |                  | 2,975             | 1,401      |      | 1,401  | 1,611        |        |       | 1,364    |         | 1,364  |
|  | <b>SUBTOTAL</b>           | 2,975          |      |          |                  | 2,975             | 1,401      |      | 1,401  | 1,611        |        |       | 1,364    |         | 1,364  |
|  |                           |                |      |          |                  |                   |            |      |        |              |        |       |          |         |        |
|  | <b>TOTAL</b>              | 20,332         |      |          | 100              | 20,232            | 12,306     |      | 12,306 | 14,152       | 7,852  |       | 13,932   | 100     | 14,032 |
| <b>LOSS DUE TO CLEARING &amp; GRUBBING</b>       |                           | -1,850         |      |          |                  | -1,850            |            |      |        |              |        |       | -1,850   |         | -1,850 |
| <b>WASTE IN LIEU OF BORROW</b>                   |                           |                |      |          |                  |                   |            |      |        |              | -7,852 |       | -7,852   |         | -7,852 |
| <b>PROJECT TOTAL</b>                             |                           | 18,482         |      |          | 100              | 18,382            | 12,306     |      | 12,306 | 14,152       |        |       | 4,230    | 100     | 4,330  |
| <b>EST. 5% TO REPLACE TOP SOIL ON BORROW PIT</b> |                           |                |      |          |                  |                   |            |      |        |              |        |       |          |         |        |
| <b>GRAND TOTAL</b>                               |                           | 18,482         |      |          |                  |                   |            |      |        |              |        |       | 4,230    | 100     | 4,330  |
| <b>SAY</b>                                       |                           | 18,500         |      |          |                  |                   |            |      |        |              |        |       |          |         |        |

\* UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN TOP 3' OF EMBANKMENT OR BACK FIL -Y2A- 14+00 TO 15+11 (30 CY)

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

PAVEMENT STRUCTURE VOLUME = 10,500 CY  
 CLASS IV SUBGRADE STABILIZATION = 700 TON  
 GEOTEXTILE FOR SOIL STABILIZATION = 500 SY  
 GEOTEXTILE FOR SUBGRADE STABILIZATION = 1,250 SY  
 SHALLOW UNDERCUT = 350 CY  
 SHOULDER BORROW = 500 CY  
 UNDERCUT EXCAVATION = 850 CY