# EARTHWORKS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

| STATION | DIST | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|
| RIVER ROAD | (TH3) | | | | | | | | |
| 500+08.80 | | 0 | | | | 0 | | | |
| | 16.2 | | 4.1 | | | | 0 | | |
| 500+25 | | 13.5 | | | | 0 | | | |
| | 25 | | 27.0 | | | | 0 | | |
| 500+50 | | 44.9 | | | | 0 | | | |
| | 25 | | 44.3 | | | | 0 | | |
| 500+75 | | 50.7 | | 191 | 246 | 0 | | | |
| | 25 | | 45.9 | | | | 0 | | |
| 501+00 | | 48.4 | | | | 0 | | | |
| | 25 | | 40.4 | | | | 0 | | |
| 501+25 | | 38.8 | | | | 0 | | | |
| | 25 | | 29.5 | | | | 0.6 | C | 308 |
| 501+50 | | 25.0 | | | | 1.2 | | F | 5 |
| | 25 | | 27.1 | | | | 2.6 | FAC | 1.15 |
| 501+75 | | 33.5 | | 55 | 47 | 0.9 | | EXC | 302 |
| | 25 | | 27.7 | | | | 0.8 | | 372 |
| 502+00 | | 26.4 | | | | 0.9 | | | |
| | 25 | | 22.5 | | | | 0.7 | | |
| 502+25 | | 22.2 | | 41 | 30 | 0.6 | | | |
| | 25 | | 18.7 | | | | 0.3 | | |
| 502+50 | | 18.2 | | | | 0 | | | |
| | 25 | | 16.8 | | | | 0 | | |
| 502+75 | | 18.1 | | 21 | 17 | 0 | | | |
| | 11.34 | | 3.8 | | | | 0 | | |
| 502+86.34 | | 0 | | | | 0 | | | |
| | | + SUBGRADE TAPER EXC. = | | 32 | | | | | |
| | | | SUB TOTAL = | | 372 | | | | |

| STATION | DIST | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|
| COMMERCE | PARK | (AGGREGATE SURFACE) | | | | | | | |
| 13+75 | | 0 | | | | 0 | | | |
| | 25 | | 18.1 | | 0 | | 6.3 | | |
| 14+00 | | 39.0 | | | | 13.7 | | | |
| | 25 | | 22.6 | | 102 | | 16.0 | | |
| 14+25 | | 9.8 | | | | 20.9 | | | |
| | 25 | | 4.5 | | 7 | | 15.4 | | |
| 14+50 | | 0 | | | | 12.4 | | | |
| | 25 | | 0 | | 0 | | 18.7 | | |
| 14+75 | | 0 | | | | 28.0 | | | |
| | 25 | | 0 | | 0 | | 24.0 | C | 110 |
| 15+00 | | 0 | | | | 23.8 | | F | 248 |
| | 25 | | 0 | | 0 | | 31.4 | FAC | 1.15 |
| 15+25 | | 0 | | | | 44.0 | | EMB | 106 |
| | 25 | | 0 | | 0 | | 37.1 | | 197 |
| 15+50 | | 0 | | | | 36.1 | | | |
| | 25 | | 0 | | 0 | | 35.4 | | |
| 15+75 | | 0 | | | | 40.4 | | | |
| | 25 | | 0 | | 0 | | 29.9 | | |
| 16+00 | | 0 | | | | 24.2 | | | |
| | 25 | | 4.1 | | 0 | | 18.4 | | |
| 16+25 | | 8.8 | | | | 15.5 | | | |
| | 25 | | 17.3 | | 0 | | 9.1 | | |
| 16+50 | | 28.8 | | | | 4.1 | | | |
| | 37.21 | | 43.2 | | 15 | | 5.7 | | |
| 16+87.21 | | 34.1 | | | | 4.1 | | | |
| | SUB TOTAL = | | 59.4 | | | | | | |
| COMMERCE | PARK | (PAVED SURFACE) | | | 71 | | | | |
| 16+87.21 | | 34.1 | | | | 4.1 | | | |
| | 12.79 | | 16.2 | | | | 1.9 | C | 120 |
| 17+00 | | 34.1 | | | | 4.1 | | F | 21 |
| | 50 | | 54.0 | | 61 | | 8.2 | FAC | 1.15 |
| 17+50 | | 24.2 | | | | 4.8 | | EXC. | 96 |
| | 50 | | 42.8 | | 32 | | 9.6 | | 98 |
| 18+00 | | 22.0 | | | | 5.6 | | | |
| | 4 | | 3.3 | | 5 | | 0.8 | | |
| 18+04 | | 22.0 | | | | 5.6 | | | |
| 18+30 | | 48.4 | | | | 0 | | | |
| | 20 | | 41.3 | | 16 | | 0 | | |
| 18+50 | | 63.1 | | | | 0 | | C. | 545 |
| | 50 | | 149.2 | | 196 | | 0 | F | 0 |
| 19+00 | | 98.0 | | | | 0 | | FAC | 1.15 |
| | 25 | | 186.3 | | 255 | | 0 | EXC | 546 |
| 19+25 | | 304.5 | | | | 0 | | | 837 |
| | 25 | | 268.9 | | 370 | | 0 | | |
| 19+50 | | 276.4 | | | | 0 | | | |
| | | | | | 246 | | | | |
| 19+67 | | | 191 | | | | | | |

| STATION | DIST | TOTAL EXCAVATION EARTH AND ROCK AREA | TOTAL EXCAVATION EARTH AND ROCK CU. YDS. | ROCK EXCAVATION AREA | ROCK EXCAVATION CU. YDS. | EMBANKMENT AREA | EMBANKMENT CU. YDS. | AREA | CU. YDS. |
|---|---|---|---|---|---|---|---|---|---|
| GRASS LINED | SWALE | | | | | | | | |
| 10+00 | | 0 | | | | 0 | | | |
| | 50 | | 6.9 | | | | 0 | | |
| 10+50 | | 7.5 | | | | 0 | | C | 45 |
| | 50 | | 25.5 | 45 | 51 | | 0 | F | 0 |
| 11+00 | | 20.0 | | | | 0 | | FAC | 1.15 |
| | 17 | | 12.6 | | | | 0 | EXC | 45 |
| 11+17 | | 20.0 | | | | 0 | | | 51 |
| 11+83 | | 40.0 | | | | 0 | | | |
| | 17 | | 25.2 | | 45 | | 0 | | |
| 12+00 | | 40.0 | | | | 0 | | | |
| | 50 | | 61.1 | | 57 | | 0 | | |
| 12+50 | | 26.0 | | | | 0 | | C | 243 |
| | 50 | | 46.3 | | 67 | | 0 | F | 0 |
| 13+00 | | 24.0 | | | | 0 | | FAC | 1.15 |
| | 50 | | 44.4 | | 66 | | 0 | EXC | 243 |
| 13+50 | | 24.0 | | | | 0 | | | 314 |
| | 50 | | 41.7 | | 54 | | 0 | | |
| 14+00 | | 21.0 | | | | 0 | | | |
| | 50 | | 23.1 | | 25 | | 0 | | |
| 14+50 | | 4.0 | | | | 0 | | | |
| | 14.5 | | 1.1 | | 0 | | 0 | | |
| 14+64.5 | | 0 | | | | 0 | | | |

## SUMMARY AND BALANCES

| STATION TO STATION | | TOTAL EXCAV EARTH & ROCK | ROCK EXCAV CUBIC YARDS | EMBANKMENT CUBIC YARDS | EXCESSES CUT | EXCESSES ~~FILL~~ | ACCUMULATIVE EXCESSES CUT | ACCUMULATIVE EXCESSES FILL |
|---|---|---|---|---|---|---|---|---|
| RIVER ROAD (TH 3) | | | | | | FINAL | | |
| 500+08.80 | 502+86.34 | 308 | 0 | 5 | 302 | 372 | 302 | +64 |
| COMMERCE PARK | | | | | | | | |
| 13+75 | 16+87.21 | 110 | 0 | 248 | | 197 ~~106~~ | ~~196~~ | +87 |
| 16+87.21 | 18+04 | 120 | 0 | 21 | 99 | 98 | ~~292~~ | -22 |
| 18+30 | 19+50 | 648 | 0 | 0 | 648 | 837 | ~~938~~ | +191 |
| GRASS LINED SWALE | | | | | | | | |
| 10+00 | 11+17 | 45 | 0 | 0 | 45 | 51 | ~~983~~ | +6 |
| 11+83 | 14+64.5 | 243 | 0 | 0 | 243 | 314 | ~~1226~~ | +71 |
| EXISTING CROSSING TO RIVER ROAD | | | | | | | | |
| 190 L.F. | | 160 | 0 | 0 | 160 | 0 | ~~1386~~ | -160 |
| | | | | | | | | +237 |
| | | | | | EXCAVATON FOR STONE FILL | | | +78 |
| | | | | | | | | 315 |
| | | 1632 | 0 | 289 | | | | |

### REMARKS

| | |
|---|---|
| EARTH AND ROCK EXCAVATION | 1632 |
| SOLID ROCK EXCAVATION | 0 |
| EARTH EXCAVATION | 1632 |
| PLANIMETERED FILL | 289 |
| LESS FACTORED SOLID ROCK | |
| LESS DISPLACEMENT OF ANY LARGE STRUCTURES | |
| NET PLANIMETERED FILL | 289 |
| FACTOR | 1.15 |
| PLANIMETERED FILL INCLUDING FACTOR | (289x1.15) 309 |
| MATERIALS AVAILABLE FOR FILLS | |
| EARTH EXCAVATION | 1632 |
| CHANNEL EXCAVATION | 0 |
| UNDERDRAIN EXCAVATION | 0 |
| STRUCTURE EXCAVATION | 0 |
| TOTAL MATERIAL AVAILABLE FOR FILL | 1632 |
| TOTAL FILL INCLUDING FACTOR | 309 |
| TOTAL MATERIAL FOR FILL | 1632 |
| BORROW | 0 |
| EXCESS EXCAVATION | 1323 |

DATUM
VERTICAL NAVD88 ± 0.5 FT.
HORIZONTAL SPC 1983

ORIGINAL PREPARED:

| DATE | REVISIONS | BY |
|---|---|---|

PROJECT NAME: SHARON GRADE CROSSING
PROJECT NUMBER: STP2034 (13)S

FILE NAME: SHT4.DGN
PROJECT LEADER: R. O'BLENIS
DESIGNED BY: C. GLOVER
PLOT DATE: 06/13/03
DRAWN BY: D. LOCKS
CHECKED BY: R. ORO
SHEET 4 OF 35

06/13/03
M:\187373_vt rail xing\SHARON CROSSING\dgn\SHT4.dgn