

# EARTHWORK

# BRIDGE QUANTITY SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
BRIDGE DIVISION

| V.C. | % GRD | STATION  | GRADES     |                      | CORR. V.C. | DIST. | COMMON EXCAVATION |          | SUBBASE OF GRAVEL |          | GRAVEL SURFACE COURSE |          | EARTH BORROW |          |    |
|------|-------|--|------------|----------------------|------------|-------|-------------------|----------|-------------------|----------|-----------------------|----------|--------------|----------|----|
|      |       |  | ON TAN.    | ON V.C.              |            |       | AREA              | CU. YDS. | AREA              | CU. YDS. | AREA                  | CU. YDS. | AREA         | CU. YDS. |    |
|      |       | MAINLINE STA (T.H.# 5)                                 |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | STA 20+00  | 1007.05    | BEGIN PROJECT        |            |       | 5                 |          | 10                |          | 5                     |          | 0            |          |    |
|      |       | 20+07.97   | 1007.16    | EDGE OF T.H.# 4      |            | 10    |                   |          |                   |          |                       |          |              |          |    |
|      |       | 20+10  | 1007.09    | 1007.09              | 0.00       |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | +25  | 1006.55    | 1006.78              | 0.23       | 15    |                   |          | 45                |          | 20                    |          | 0            |          |    |
|      |       | +30  | 1006.37    | 1006.78              | 0.41       | 5     |                   |          | 32                |          | 35                    |          | 16           |          |    |
|      |       | +50  | 1007.29    | 1007.29              | 0.00       | 20    |                   |          | 45                |          | 30                    |          | 15           |          |    |
|      |       |  |            |                      |            | 8.82  |                   |          | 12                |          | 9                     |          | 4            |          |    |
|      |       | BEGIN BRIDGE   |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | 20+50.82   | 1007.69    |                      |            |       | 30                |          | 22                |          | 11                    |          | 0            |          |    |
|      |       | 20+83.91   | 1008.84    |                      |            | 0     |                   |          | 22                |          | 14                    |          | 11           |          |    |
|      |       | 21+00  | 1009.57    | END BRIDGE           |            | 16.09 | 0                 | 0        | 26                |          | 14                    |          | 7            | 6        |    |
|      |       | +25  | 1010.71    |                      |            | 25    | 0                 | 0        | 27                |          | 25                    |          | 11           | 21       |    |
|      |       | +50  | 1011.86    | 1011.86              | 0.00       | 25    | 5                 | 2        | 27                |          | 25                    |          | 11           | 25       |    |
|      |       | +75  | 1013.00    | 1013.44              | 0.44       | 25    | 35                | 19       | 25                |          | 24                    |          | 10           | 19       |    |
|      |       | 22+00  | 1015.90    | 1015.90              | 0.00       | 25    | 30                | 30       | 21                |          | 21                    |          | 9            | 12       |    |
|      |       | STA 22+00 END PROJECT. CONSTRUCT SATISFACTORY APPROACH |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       |  |            |                      |            |       |                   |          | 109               |          | 178                   |          | 80           | 83       |    |
|      |       |  |            |                      |            |       |                   |          | 1                 |          | 2                     |          | -            | 7        |    |
|      |       |  |            |                      |            |       |                   |          | T.H.#5 TOTAL      |          | 110                   |          | 180          | 80       | 90 |
|      |       | T.H.# 4 STA  |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | STA 45+50  | 1006.65    | BEGIN T.H.# 4        |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | 47+50  | 1006.40    | MATCH EXISTING GRADE |            | 50    | 0                 | 0        | 0                 |          | 2                     |          | 10           | 0        |    |
|      |       | +50  | 1006.77    | 1006.77              | 0.00       | 50    | 0                 | 0        | 10                |          | 9                     |          | 17           | 0        |    |
|      |       | 46+00  | 1007.13    | 1007.05              | -0.08      | 50    | 0                 | 0        | 15                |          | 23                    |          | 9            | 0        |    |
|      |       | +50  | 1007.50    | 1007.15              | -0.35      | 50    | 0                 | 0        | 20                |          | 32                    |          | 17           | 0        |    |
|      |       | +75  | 1007.33    | 1007.13              | -0.20      | 25    | 0                 | 0        | 22                |          | 19                    |          | 13           | 0        |    |
|      |       | 47+00  | 1007.16    | 1007.07              | -0.09      | 25    | 0                 | 0        | 10                |          | 15                    |          | 10           | 0        |    |
|      |       | +50  | 1006.82    | 1006.82              | -0.00      | 50    | 0                 | 0        | 15                |          | 23                    |          | 13           | 0        |    |
|      |       | 48+00  | 1006.47    |                      |            | 50    | 0                 | 0        | 3                 |          | 17                    |          | 3            | 0        |    |
|      |       | +50  | 1006.34    |                      |            | 50    |                   |          |                   |          |                       |          |              |          |    |
|      |       | 49+00  | 1006.26    | MATCH EXISTING GRADE |            | 50    |                   |          |                   |          |                       |          |              |          |    |
|      |       | STA 48+00 END T.H.# 4. CONSTRUCT SATISFACTORY APPROACH |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       |  |            |                      |            |       |                   |          | 0                 |          | 138                   |          | 101          | 0        |    |
|      |       |  |            |                      |            |       |                   |          | -                 |          | 2                     |          | 9            | -        |    |
|      |       |  |            |                      |            |       |                   |          | T.H.#1            |          | 0                     |          | 140          | 0        |    |
|      |       |  |            |                      |            |       |                   |          | T.H.#5            |          | 110                   |          | 180          | 80       |    |
|      |       |  |            |                      |            |       |                   |          | ADJUST TOTAL      |          | 110                   |          | 320          | 190      |    |
|      |       | <b>EARTHWORK SUMMARY</b>                               |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | PLANIMETERED FILL                                      | 90 x 1.15  |                      |            |       |                   |          | 104 (REQ'D.)      |          |                       |          |              |          |    |
|      |       | MATERIAL AVAILABLE FOR FILL:                           |            |                      |            |       |                   |          |                   |          |                       |          |              |          |    |
|      |       | COMMON EXCAVATION                                      | 110 x 1    |                      |            |       |                   |          | 110               |          |                       |          |              | 536      |    |
|      |       | UNCL. CHANNEL EX.                                      | 350 x 0.10 |                      |            |       |                   |          | 210               |          |                       |          |              | 104      |    |
|      |       | STRUCTURE EXCAV.                                       | 300 x 0.60 |                      |            |       |                   |          | 216               |          |                       |          |              | 432      |    |
|      |       |  |            |                      |            |       |                   |          | TOTAL             |          | 536                   |          |              | WASTE    |    |

| NO.    | ITEM   | UNIT | QUANTITY BREAKDOWN |          |          |        |        |         |  | TOTAL | FINAL  |  |
|--------|--|------|--------------------|----------|----------|--------|--------|---------|--|-------|--------|--|
|        |  |      | SLAB               | ABUT. #1 | ABUT. #2 | T.H.#5 | T.H.#4 | CHANNEL |  |       |        |  |
| 202.25 | REMOVAL OF STRUCTURE   | EACH | 1                  |          |          |        |        |         |  |       | 1      |  |
| 203.15 | COMMON EXCAVATION  | C.Y. |                    |          |          | 110    |        |         |  |       | 110    |  |
| 203.27 | UNCLASSIFIED CHANNEL EXCAVATION  | C.Y. |                    |          |          |        |        | 350     |  |       | 350    |  |
| 204.25 | STRUCTURE EXCAVATION   | C.Y. |                    | 140      | 220      |        |        |         |  |       | 360    |  |
| 204.30 | GRANULAR BACKFILL FOR STRUCTURES   | C.Y. |                    | 120      | 160      |        |        |         |  |       | 280    |  |
| 301.15 | SUBBASE OF GRAVEL  | C.Y. |                    |          |          | 180    | 140    |         |  |       | 320    |  |
| 401.10 | GRAVEL SURFACE COURSE  | C.Y. |                    |          |          | 80     | 110    |         |  |       | 190    |  |
| 501.25 | CONCRETE, CLASS B  | C.Y. | 25                 | 56       | 98       |        |        |         |  |       | 179    |  |
| 507.15 | REINFORCING STEEL  | L.B. | 3,630              | 6,680    | 8,490    |        |        |         |  |       | 18,800 |  |
| 514.10 | WATER REPELLENT  | GAL. | 5                  | 4        | 5        |        |        |         |  |       | 14     |  |
| 608.25 | ALL PURPOSE EXCAVATOR RENTAL, TYPE I   | HR   |                    |          |          |        | 8      |         |  |       | 8      |  |
| 613.12 | STONE FILL, TYPE III   | C.Y. |                    |          |          |        |        | 310     |  |       | 310    |  |
| 617.35 | BRIDGE RAILING, HEAVY DUTY STEEL BEAM, TYPE D POST (TYPE 4 BEAM RAIL)        | L.F. | 64                 |          |          |        |        |         |  |       | 64     |  |
| 621.38 | GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POST, TYPE II (TYPE 4 BEAM RAIL) | L.F. |                    |          |          | 181    |        |         |  |       | 181    |  |
| 621.70 | ANCHOR FOR STEEL BEAM GUARD RAIL WITH STEEL OR WOOD POSTS @ OPENINGS         | EACH |                    |          |          | 2      |        |         |  |       | 2      |  |
| 635.10 | MOBILIZATION   | L.S. |                    |          |          | 1      |        |         |  |       | 1      |  |
| 637.10 | MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS                                   | L.S. |                    |          |          |        | 1      |         |  |       | 1      |  |

BRIDGE (S) AT STATION (S) 20+71  
LOCATION (S) T.H.5 OVER DUTTON BROOK

Prepared by: D.E. WILLEY  
Checked by: M.L. FERGUSON  
SUPERVISOR: R.S. HAUPT

MAIDSTONE  
BR.# 6

PROJECT NO. BRZ 1447 (4)  
SHEET NO. 2 OF 31