

EARTHWORK SUMMARY

| STATION | FINISHED GRADE | DISTANCE | COMMON EXCAVATION | | SUBBASE OF GRAVEL | | EMBANKMENT | |
|-------------------------|----------------|----------|-------------------|--------|-------------------|--------|------------|--------|
| | | | AREA | VOLUME | AREA | VOLUME | AREA | VOLUME |
| BOX CUT | | | | | | | | |
| 0+00 | 716.3 | 22 | 10.5 | 8 | 9 | 8 | 0 | 1 |
| 0+22 | 717.4 | 22 | 8 | 7 | 10.5 | 9 | 1 | 1 |
| 0+44 | 718.2 | 6 | 8 | 2 | 10.5 | 2 | 1 | 0 |
| 0+50 | 718.5 | 30 | 8 | 8 | 10.5 | 12 | 1 | 2 |
| 0+80 | 719.6 | 20 | 7 | 5 | 10.5 | 8 | 2.5 | 1 |
| 1+00 | 720.9 | 50 | 7 | 21 | 10.5 | 20 | 0 | 0 |
| 1+50 | 724.1 | 16 | 18 | 9 | 11 | 7 | 0 | 0 |
| 1+66 | 725.4 | 34 | 15 | 18 | 11 | 14 | 0 | 0 |
| 2+00 | 726.6 | 14 | 14 | 11 | 11 | 0 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 2+67 | 729.6 | 13 | 7.5 | 2 | 6.5 | 4 | 0 | 2 |
| 3+00 | 729.9 | 50 | 2 | 2 | 9.5 | 17 | 8 | 31 |
| 3+50 | 731.3 | 50 | 0 | 0 | 8.5 | 17 | 25 | 67 |
| 4+00 | 733.0 | 50 | 0 | 0 | 10 | 17 | 47 | 95 |
| 4+50 | 733.4 | 50 | 0 | 0 | 8.5 | 15 | 56 | 100 |
| 5+00 | 733.8 | 50 | 0 | 2 | 8 | 15 | 52 | 89 |
| 5+50 | 734.2 | 50 | 2.5 | 2 | 8.5 | 46 | 44 | 41 |
| 6+00 | 733.4 | 50 | 0 | 3 | 41 | 63 | 0 | 0 |
| 6+50 | 732.8 | 34 | 3 | 8 | 27.5 | 21 | 0 | 1 |
| 6+84 | 732.6 | 9 | 9 | 6.5 | 6.5 | 1 | 1 | 1 |
| BOX CUT | | | | | | | | |
| 7+15 | 732.7 | 35 | 7.5 | 9 | 6.5 | 8 | 1.5 | 3 |
| 7+50 | 733.6 | 34 | 6 | 9 | 6.5 | 8 | 2.5 | 2 |
| 7+84 | 732.3 | 7.5 | 7.5 | 6.5 | 6.5 | 0 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 8+03 | 732.3 | 47 | 7.5 | 12 | 6.5 | 11 | 0 | 0 |
| 8+50 | 731.6 | 6 | 6 | 6.5 | 6.5 | 0 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 9+00 | 731.7 | 22 | 7 | 6 | 6.5 | 5 | 0 | 0 |
| 9+22 | 731.6 | 7 | 7 | 6.5 | 6.5 | 0 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 9+44 | 731.8 | 6 | 7.5 | 2 | 6.5 | 2 | 0 | 0 |
| 9+50 | 732.0 | 50 | 7.5 | 14 | 8.5 | 12 | 0 | 0 |
| 10+00 | 732.3 | 6 | 7.5 | 2 | 8.5 | 2 | 0 | 0 |
| 10+08 | 732.1 | 6 | 7.5 | 2 | 8.5 | 0 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 10+29 | 732.2 | 21 | 7.5 | 6 | 6.5 | 5 | 1 | 1 |
| 10+50 | 733.0 | 50 | 7.5 | 14 | 6.5 | 12 | 1 | 2 |
| 11+00 | 733.5 | 33 | 7.5 | 9 | 6.5 | 8 | 1 | 1 |
| 11+33 | 733.4 | 33 | 7.5 | 9 | 6.5 | 8 | 0 | 0 |
| COLUMN SUBTOTALS | | | 180 CY | 368 CY | 440 CY | | | |

| STATION | FINISHED GRADE | DISTANCE | COMMON EXCAVATION | | SUBBASE OF GRAVEL | | EMBANKMENT | |
|----------------------------|----------------|----------|-------------------|--------|-------------------|--------|------------|--------|
| | | | AREA | VOLUME | AREA | VOLUME | AREA | VOLUME |
| BOX CUT | | | | | | | | |
| 11+66 | 733.6 | 14 | 7.5 | 3 | 6.5 | 3 | 0 | 2 |
| 12+00 | 734.0 | 50 | 5 | 7 | 6.5 | 12 | 8 | 15 |
| 12+50 | 734.5 | 44 | 3 | 5 | 6.5 | 11 | 8 | 13 |
| 12+64 | 733.9 | 3 | 3 | 5 | 6.5 | 8 | 8 | 13 |
| BOX CUT | | | | | | | | |
| 13+55 | 734.6 | 20 | 7 | 5 | 6.5 | 5 | 2 | 2 |
| 13+75 | 735.8 | 18 | 7 | 5 | 6.5 | 4 | 2 | 3 |
| 13+93 | 736.0 | 7 | 7 | 5 | 6.5 | 6 | 6 | 3 |
| BOX CUT | | | | | | | | |
| 14+50 | 737.4 | 50 | 9 | 13 | 6.5 | 12 | 0 | 1 |
| 15+00 | 738.7 | 40 | 4.5 | 7 | 6.5 | 10 | 1.5 | 2 |
| 15+40 | 738.7 | 40 | 4.5 | 7 | 6.5 | 10 | 1.5 | 2 |
| BOX CUT | | | | | | | | |
| 16+97 | 740.9 | 53 | 6.5 | 9 | 6.5 | 13 | 0 | 11 |
| 16+50 | 744.0 | 50 | 2.5 | 8 | 6.5 | 12 | 11 | 13 |
| 17+00 | 746.6 | 48 | 4 | 23 | 6.5 | 12 | 3.5 | 3 |
| 17+48 | 748.0 | 9 | 9 | 23 | 6.5 | 12 | 0 | 3 |
| BOX CUT | | | | | | | | |
| 17+89 | 748.5 | 31 | 12 | 16 | 6.5 | 7 | 1 | 2 |
| 18+00 | 749.5 | 50 | 15 | 23 | 6.5 | 12 | 2 | 3 |
| 18+50 | 749.1 | 27 | 10 | 10 | 6.5 | 7 | 1 | 1 |
| 18+77 | 748.1 | 9 | 9 | 10 | 6.5 | 7 | 1 | 1 |
| BOX CUT | | | | | | | | |
| 19+22 | 747.6 | 28 | 8 | 8 | 6.5 | 7 | 3 | 3 |
| 19+50 | 747.0 | 50 | 8 | 11 | 6.5 | 12 | 3 | 19 |
| 20+00 | 745.8 | 50 | 3.5 | 8 | 6.5 | 12 | 18 | 23 |
| 20+50 | 744.6 | 25 | 5 | 5 | 6.5 | 6 | 6.5 | 6 |
| 20+75 | 744.3 | 5 | 5 | 5 | 6.5 | 6 | 6.5 | 6 |
| BOX CUT | | | | | | | | |
| 21+57 | 744.7 | 43 | 4.5 | 7 | 6.5 | 10 | 2.5 | 4 |
| 22+00 | 745.5 | 50 | 4.5 | 11 | 6.5 | 12 | 2.5 | 2 |
| 22+50 | 744.6 | 6 | 7.5 | 2 | 6.5 | 1 | 0 | 0 |
| 22+56 | 744.5 | 6 | 7.5 | 2 | 6.5 | 1 | 0 | 0 |
| BOX CUT | | | | | | | | |
| 22+85 | 744.0 | 15 | 8 | 3 | 6.5 | 4 | 1.5 | 1 |
| 23+00 | 744.5 | 50 | 6 | 11 | 6.5 | 12 | 1.5 | 3 |
| 23+50 | 743.8 | 50 | 8 | 13 | 6.5 | 13 | 1.5 | 2 |
| 24+00 | 742.7 | 8 | 8 | 8 | 6.5 | 8 | 1 | 1 |
| BOX CUT | | | | | | | | |
| COLUMN #2 SUBTOTALS | | | 211 CY | 209 CY | 134 CY | | | |
| COLUMN #1 SUBTOTALS | | | 180 CY | 368 CY | 440 CY | | | |
| PROJECT TOTAL | | | 391 CY | 577 CY | 574 CY | | | |

* ADD 16 CY FOR DRIVEWAY WORK FOR A TOTAL OF 409 CY
SEE CALCULATIONS ON THIS SHEET

- NOTES**
- THE EXISTING MAILBOXES SHALL BE RELOCATED NEAR THEIR ORIGINAL LOCATIONS NEAR THE MIDDPOINT BETWEEN THE EDGE OF THE ROAD AND EDGE OF SIDEWALK WITHIN THE GRASS STRIP (5'± LEFT OF THE SIDEWALK CENTERLINE), OR AS DIRECTED BY THE ENGINEER. TEMPORARY RELOCATION MAYBE REQUIRED. PAYMENT AS PER ITEM 617.10 AND 617.12
 - ITEM 617.10 RELOCATE MAILBOX, SINGLE SUPPORT (TOTAL OF 4)
0+97
7+75
13+66
18+36
 - ITEM 617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT (TOTAL OF 3)
7+70
10+85
17+35
 - EXISTING ROADWAY SIGNS SHALL BE RELOCATED NEAR THEIR ORIGINAL LOCATION AS DIRECTED BY THE ENGINEER AS PER ITEM 675.60
 - ITEM 675.60 ERECTING SALVAGED SIGNS (TOTAL OF 3)
20+15
21+92
23+00
 - ITEM 620.50 REMOVAL AND RESETTING FENCE
3+00 TO 5+85 (2 STRAND BARBED WIRE) = 285'
7+30 TO 7+80 (WOOD RAIL) = 50'
12+70 TO 12+90 (WOOD RAIL) = 20'
TOTAL = 355'
 - ITEM 620.55 REMOVAL OF EXISTING FENCE (MOD.)
A 75' WOOD RAIL FENCE (1+25 TO 2+00) SHALL BE REMOVED, SALVAGED, AND BECOME THE PROPERTY OF THE OWNER, THE STOWE TRADING COMPANY. IF THE OWNER DOES NOT WANT THE FENCE, THE CONTRACTOR SHALL ASSUME POSSESSION.

| STATION | DISTANCE | STONE FILL, TYPE I | |
|-------------|-----------|--------------------|--------------|
| | | AREA | VOLUME |
| BUTT | | | |
| 3+50 | 50 | 15 | 35 |
| 4+00 | 50 | 23 | 45 |
| 4+50 | 50 | 26 | 48 |
| 5+00 | 50 | 28 | 47 |
| 5+50 | 38 | 25 | 28 |
| 5+88 | 15 (EST.) | | |
| BUTT | | | TOTAL 203 CY |

EARTHWORK SUMMARY

TOTAL EMBANKMENT = 574 CY
*TOTAL AVAILABLE COMMON EXCAVATION = 409 CY
EARTH BORROW REQUIRED = 165 CY

COMMON EXCAVATION QUANTITIES

ITEM 203.15 ADDITIONAL COMMON EXCAVATION AT DRIVEWAYS:
7+00± 40' x 10' x 2" + (12 x 27) = 2.5 CY
8+00± 25' x 11' x 2" + (12 x 27) = 1.5 CY
9+75± 55' x 10' x 2" + (12 x 27) = 3.5 CY
11+50± 35' x 12' x 2" + (12 x 27) = 4.0 CY
12+50± 25' x 12' x 2" + (12 x 27) = 2.0 CY
21+50± 40' x 10' x 2" + (12 x 27) = 2.5 CY
22+75± 35' x 10' x 2" + (12 x 27) = 2.0 CY
TOTAL = 18 CY

AUG 9 1994

JUN 30 1992

PROJECT
BW-RS-BIKE (2S)



"EARTHWORK SUMMARY"
STOWE MOUNTAIN ROAD WALK

CHARLES GRENIER
CONSULTING ENGINEER, P.C.
BOX 445, WATERBURY, VERMONT
244-6413

DATE 8-14-91
DRN BY T.J.M.
SCALE A=1
SHT 31 OF 28

REVISED 1-31-82
REVISED 8-20-81

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