| ITEM | NO. PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | BOX EXTENSIONS | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | * |
| 2 | 48 | 5 | 10-0 | BE501 | STR | | | | | | | | | | | | |
| 3 | | | | BE502 | | NOT USED | | | | | | | | | | | |
| ▲ 4 | 56 | 5 | 10-0 | BE503 | STR | | | | | | | | | | | | |
| 5 | 40 | 5 | 3-0 | BE504 | STR | | | | | | | | | | | | |
| 6 | 28 | 5 | 6-0 | BE505 | STR | | | | | | | | | | | | |
| 7 | 12 | 5 | 11-2 | BE506 | STR | | | | | | | | | | | | |
| 8 | 12 | 5 | 8-3 | BE507 | STR | | | | | | | | | | | | |
| 9 | 24 | 5 | 3-10 | BE508 | STR | | | | | | | | | | | | |
| ▲ 10 | 24 | 5 | 7-0 | BE509 | STR | | | | | | | | | | | | |
| 11 | 48 | 5 | 11-4 | BE510 | STR | | | | | | | | | | | | |
| 12 | 48 | 5 | 6-9 | BE511 | 17 | | 3-6 | 3-3 | | | | | | | | | |
| 13 | 48 | 5 | 9-6 | BE512 | 17 | | 3-6 | 6-0 | | | | | | | | | |
| 14 | 14 | 5 | 11-4 | BE513 | STR | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | 26 | 6 | 11-4 | BE601 | STR | | | | | | | | | | | | |
| ▲* 18 | 45 | 6 | 7-8 | BE602 | 1 | 0-8 | 7-0 | | | | | | | | | | |
| 19 | 24 | 6 | 9-3 | BE603 | SS | 1-0 | 3-3 | 0-9 | 3-3 | | | 1-0 | | | | | |
| 20 | | | | | | | | | | | | | | | | | |

| ITEM | NO. PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 13 | 7 | 12-7 | BE701 | 17 | | 9-7 | 3-0 | | | | | | | | | ▲ |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | APRON SLABS | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| ▲ 26 | 72 | 5 | 11-6 | AS501 | STR | | | | | | | | | | | | |
| ▲ 27 | 12 | 5 | 23-0 | AS502 | STR | | | | | | | | | | | | |
| 28 | 48 | 5 | 7-9 | AS503 | S4 | 2-0 | 3-3 | 0-6 | 2-0 | | | | | | | | |
| * 29 | 49 | 5 | 5-6 | AS504 | 17 | | 2-0 | 3-6 | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | | | | | | |
| 33 | 44 | 6 | 23-0 | AS601 | STR | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | | | | | |
| 35 | | | | | | WINGWALL #1 | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | | |
| 37 | 14 | 5 | 2-10 | 1W501 | STR | | | | | | | | | | | | |
| ▲ 38 | 14 | 5 | 9-0 | 1W502 | STR | | | | | | | | | | | | |
| ▲ 39 | 18 | 5 | 12-9 | 1W503 | STR | | | | | | | | | | | | |
| 40 | 18 | 5 | 4-0 | 1W504 | 19 | | 2-0 | 2-0 | | | | | 1-0 | | 1-9 | | |

| ITEM | NO. PIECES | SIZE | LENGTH | MARK | TYPE | A | B | C | D | E | F | G | H | J | K | R | O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ▲ 41 | 14 | 7 | 12-7 | 1W701 | 17 | | 3-0 | 9-7 | | | | | | | | | |
| 42 | 2 | 5 | 13-2 | 1W505 | STR | | | | | | | | | | | | |
| 43 | | | | | | | | | | | | | | | | | |
| 44 | | | | | | WINGWALL #2 | | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | | | | |
| 46 | IDENTICAL TO WINGWALL #1 EXCEPT WITH PREFIX "2W". | | | | | | | | | | | | | | | | |
| 47 | | | | | | | | | | | | | | | | | |
| 48 | | | | | | | | | | | | | | | | | |
| 49 | | | | | | WINGWALL #3 | | | | | | | | | | | |
| 50 | | | | | | | | | | | | | | | | | |
| 51 | IDENTICAL TO WINGWALL #1 EXCEPT WITH PREFIX "3W". | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | | | | |
| 54 | | | | | | WINGWALL #4 | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
| 56 | IDENTICAL TO WINGWALL #1 EXCEPT WITH PREFIX "4W". | | | | | | | | | | | | | | | | |
| 57 | | | | | | | | | | | | | | | | | |
| 58 | | | | | | | | | | | | | | | | | |
| 59 | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | |

## ASTM STANDARD REINFORCING BARS

| BAR SIZE DESIGNATION | WEIGHT POUNDS PER FOOT | NOMINAL DIMENSIONS ROUND SECTION | | |
|---|---|---|---|---|
| | | DIAMETER INCHES | CROSS SECTIONAL AREA SQ. INCHES | PERIMETER INCHES |
| #3 | .376 | .375 | .11 | 1.178 |
| #4 | .668 | .500 | .20 | 1.571 |
| #5 | 1.043 | .625 | .31 | 1.963 |
| #6 | 1.502 | .750 | .44 | 2.356 |
| #7 | 2.044 | .875 | .60 | 2.749 |
| #8 | 2.670 | 1.000 | .79 | 3.142 |
| #9 | 3.400 | 1.128 | 1.00 | 3.544 |
| #10 | 4.303 | 1.270 | 1.27 | 3.990 |
| #11 | 5.313 | 1.410 | 1.56 | 4.430 |
| #14 | 7.65 | 1.693 | 2.25 | 5.32 |
| #18 | 13.60 | 2.257 | 4.00 | 7.09 |

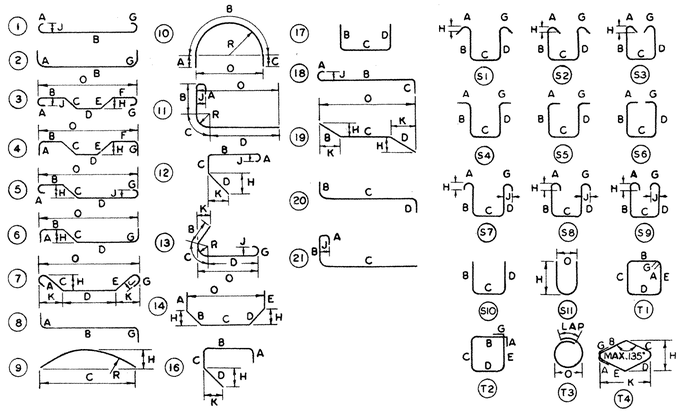
# BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

## QUANTITY BREAKDOWN

| NO. | ITEM | UNIT | | BOX EXTENSION | | CHANNEL | | | | | | | TOTAL | FINAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203.27 | UNCLASSIFIED CHANNEL EXCAVATION | CY | | | | 60 | | | | | | | 60 | |
| 204.25 | STRUCTURE EXCAVATION | CY | | 70 | | | | | | | | | 70 | |
| 204.30 | GRANULAR BACKFILL FOR STRUCTURES | CY | | 40 | | | | | | | | | 40 | |
| 404.45 | TAR EMULSION | GAL | | 3 | | | | | | | | | 3 | |
| 501.23 | CONCRETE, CLASS B | CY | | 51 | | | | | | | | | 51 | |
| 505.36 | TEMPORARY STEEL SHEET PILING | SF | | 1000 | | | | | | | | | 1000 | |
| 507.15 | REINFORCING STEEL | LB | | 11230 | | | | | | | | | 11230 | |
| 514.10 | WATER REPELLENT | GAL | | 12 | | | | | | | | | 12 | |
| 525.41 | BRIDGE RAILING-HEAVY DUTY STEEL BEAM/FASCIA MOUNTED | LF | | 25 | | | | | | | | | 25 | |
| 529.20 | PARTIAL REMOVAL OF STRUCTURE | EA | | 1 | | | | | | | | | 1 | |
| 613.11 | STONE FILL, TYPE II | CY | | | | 90 | | | | | | | 90 | |
| 621.90 | TEMPORARY TRAFFIC BARRIER | LF | | 800 | | | | | | | | | 800 | |
| 651.40 | GRUBBING MATERIAL | SY | | 120 | | | | | | | | | 120 | |

## TYPICAL BAR BENDS



## NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A 615-S1) GRADE 60.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
▲ DENOTES BAR TO BE CUT IN FIELD

| REV. NO. | MADE BY | DATE | DESCRIPTION |
|---|---|---|---|
| | | | |

# STATE OF VERMONT
## AGENCY OF TRANSPORTATION

| | |
|---|---|
| TOWN OF BRIDPORT | BRIDGE NO. 18 |
| | LOG STA. 136+41 |
| HIGHWAY NO. VT. RTE. 22A | SURV. STA. 284+10 |
| BRIDGE QUANTITY SHEET 8 | |
| REINFORCING STEEL SCHEDULE | |
| DESIGNED BY M.J. POLOGRUTO | DRAWN BY M.J. POLOGRUTO |
| CHECKED BY M. GARCIA DATE 6/86 | BRIDGE DESIGN SUPERVISOR R.S. HAUPT DATE 6/86 |
| PROJECT SHOREHAM-BRIDPORT-ADDISON | PROJECT NO. F017-1(2) |
| BRIDGE SHEET NO. BR203 | SHEET 246 OF 420 |