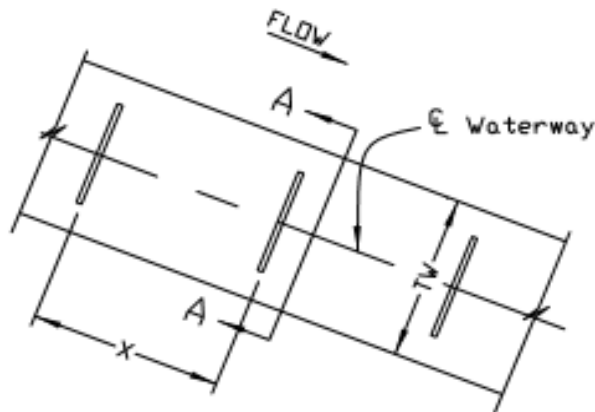
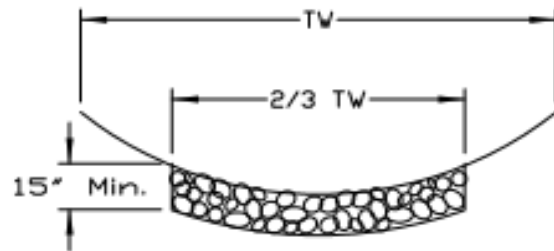


ROCK CHECKS FOR WATERWAYS



PLAN VIEW



SECTION A-A

WATERWAY NUMBER
 FROM STATION
 TO STATION
 CHECK SPACING (X)
 CHECK WIDTH (2/3 TW)

BILL OF MATERIALS

Rock - IDOT RR3, or equivalent - _____ Tons

NOTES:

1. Excavate trench 12 inches wide or one backhoe bucket wide, whichever is greater.
2. Compact rock backfill by rolling with construction equipment.
3. Finished rock surface will be flush with the ground surface when completed.

LOCATION PLAN



County _____

Sec. _____ T _____ R _____

REFERENCE

Project _____
 Designed _____ Date _____
 Checked _____ Date _____
 Approved _____ Date _____



Natural Resources Conservation Service

NRCS

STANDARD DWG. NO.

IL-541

SHEET 1 OF 2

DATE 8-17-94

ROCK CHECKS FOR WATERWAYS

ROCK CHECK SPACING

| WATERWAY GRADE % | MAXIMUM SPACING FT. |
|---------------------|------------------------|
| 0 - 1.5 | 100 |
| 1.5 - 3.0 | 75 |
| > 3.0 | 50 |

ROCK QUANTITIES IN TONS - PER ROCK CHECK

| DEPTH (In.) | ROCK CHECK WIDTH - 2/3 TW - IN FEET | | | | | | | | | | |
|----------------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 |
| 15 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 | 3.6 | 3.9 | 4.1 | 4.4 |
| 18 | 1.8 | 2.1 | 2.5 | 2.8 | 3.2 | 3.6 | 3.9 | 4.3 | 4.6 | 5.0 | 5.3 |
| 24 | 2.4 | 2.8 | 3.3 | 3.8 | 4.3 | 4.7 | 5.2 | 5.7 | 6.2 | 6.6 | 7.1 |

Note: Quantities based on 2 foot wide trench and 1.6 Tons/Cu. Yd.
(Divide quantities by 2 for 12 inch trench widths.)

ROCK GRADATION - IDOT RR3

| Size | % Passing By Weight |
|--------|------------------------|
| 50 Lb. | 100 |
| 10 Lb. | 30 - 70 |
| 1 Lb. | 0 - 16 |

Project _____
 Designed _____ Date _____
 Checked _____ Date _____
 Approved _____ Date _____



NRCS
 Natural Resource Conservation Service

IL-541
 SHEET 2 OF 2
 DATE 8-17-94