

Concrete curb (at ends of riprap) (1 lft equivalent to 0.09 sys of riprap)

Top of riprap elev.

2'-0"

2'-0"

4"

2'-0"

Sodding

8" conc. toewall to be constructed at ends of riprap (1 lft. of toewall equivalent to 0.37 sys of riprap)

11.6 units req'd per sq. yd.

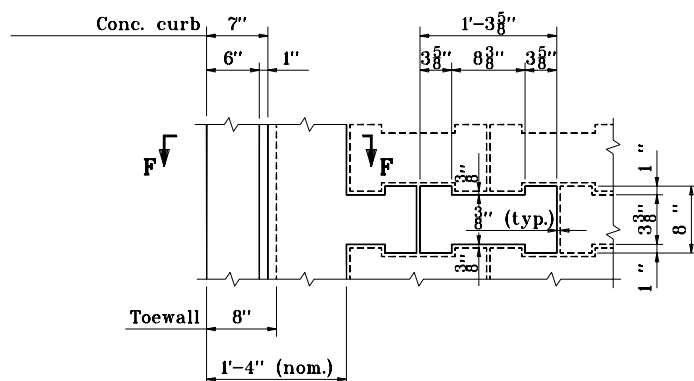
F

J

3


The diagram shows a cross-section of a riprap apron. It features a horizontal section on the left, a vertical section in the middle, and a sloped section on the right. The sloped section is labeled "Sloped or riprap" and has a "2:1" slope. A curved section connects the vertical and sloped parts, labeled "1'-5" rad". The horizontal distance from the vertical section to the start of the slope is "1'-6\"", and the horizontal distance from the vertical section to the end of the slope is "1'-6\"". The label "Welded fabric" points to the bottom of the vertical section.

(See layout on plans for location of paved ditch)



GENERAL NOTES

1. See Standard Drawing E 616-SWRR-01 for Section F-F.
2. If riprap is specified, 1'-0" hand-laid riprap or precast concrete riprap type A may be used.
- ③ Precast conc. riprap
Type A: H = $7\frac{5}{8}"$ (8" nom.)
Type B: H = $3\frac{5}{8}"$ (4" nom.)

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| INDIANA DEPARTMENT OF TRANSPORTATION | | |
| RIPRAP SLOPEWALL DETAILS | | |
| SEPTEMBER 1997 | | |
| STANDARD DRAWING NO.E 616-SWRR-02 | | |
|  | DETAILS PLACED IN THIS FORMAT | 11-15-99 |
| | <u>s/ Anthony L. Uremovich</u> | <u>11-15-99</u> |
| | DESIGN STANDARDS ENGINEER | DATE |
| | | |
| DESIGN STANDARDS ENGINEER | <u>s/ Firooz Zandi</u> | <u>11-15-99</u> |
| | CHIEF HIGHWAY ENGINEER | DATE |
| | ORIGINALLY APPROVED | 9-01-97 |