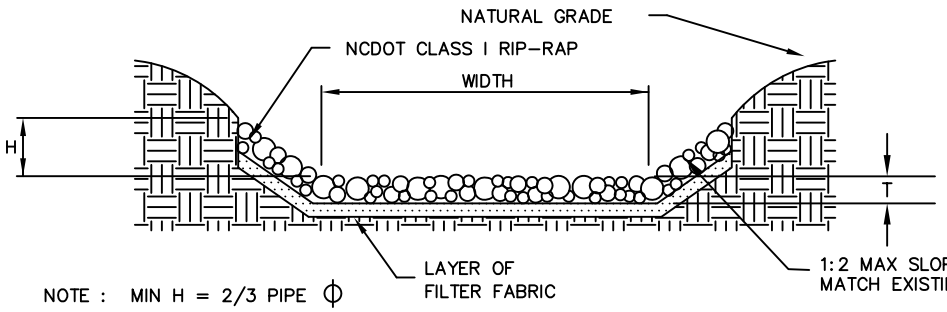
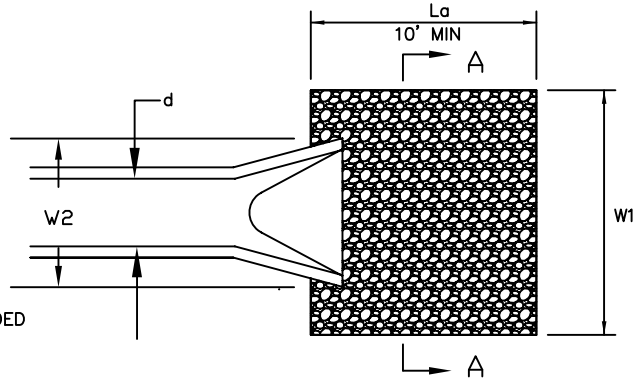


SECTION A–A



PLAN

RIP–RAP APRON FOR FLARED END SECTION

CONSTRUCTION SPECIFICATIONS :

A. BOTTOM GRADE SHALL BE 0.0 %.

B. SIDE SLOPES 2:1 OR FLATTER.

C. SIDEWALLS SHALL EXTEND UP AS SHOWN ON THE PLANS BUT NOT LESS THAN TWO–THIRDS THE PIPE DIAMETER.

D. THERE SHALL BE NO OVERFALL FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIP–RAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF TO TOE WALL AT THE DOWNSTREAM END.

E. APRON DIMENSIONS AND RIP–RAP SIZE OR CONCRETE THICKNESS MUST BE AS SHOWN ON THE PLANS.

F. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL AT THE OUTLET PIPE, WHICHEVER IS GREATER, OR 3 TIMES THE DIAMETER.

G. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.

H. NO BENDS OR CURVES IN THE HORIZONAL ALIGNMENT OF THE APRON WILL BE PERMITTED.

I. FILTER FABRIC TO BE MIRAFI 500 OR APPROVED EQUAL

J. THICKNESS OF RIP–RAP TO BE 1' OR AS NOTED BY THE ENGINEER.

USE USDA NOMOGRAPH FROM NC SEDIMENT AND EROSION CONTROL MANUAL FOR DESIGN DATA

OUTLET	La	W1	W2	*T	H

* d50 (see fig 8.06 a&b "NC SEDIMENT AND EROSION CONTROL MANUAL"
dmax = 1.5 x d50
T = 1.5 X dmax.
La = LENGTH OF RIP RAP APRON. 4xd
W1 = END OF APRON. 3xd
W2 = END OF FLARED SECTION

REVISIONS		
NO.	DATE	DESCRIPTION
1	4/20/04	NOTES/FORMAT
2	05/08	ADD TABLE

RIP RAP APRON FOR F.E.S

CITY OF MONROE
UNION COUNTY *NORTH CAROLINA*

PREPARED BY:
ENGINEERING DEPARTMENT

FILE: I:New_I/Maps-Details/Detail Manual&Specs/Standard Detail & Spec Manual/Standard Details/03

DRAWN BY: JAM	DATE: 08-07-01
CHECKED BY: JNL	SCALE: N.T.S.

DETAIL 03.05.01