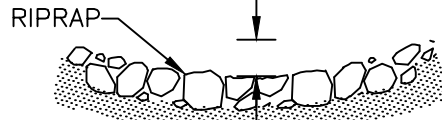


1' (12"-27" DIA. PIPE)
1.5' (30" AND LARGER PIPE)



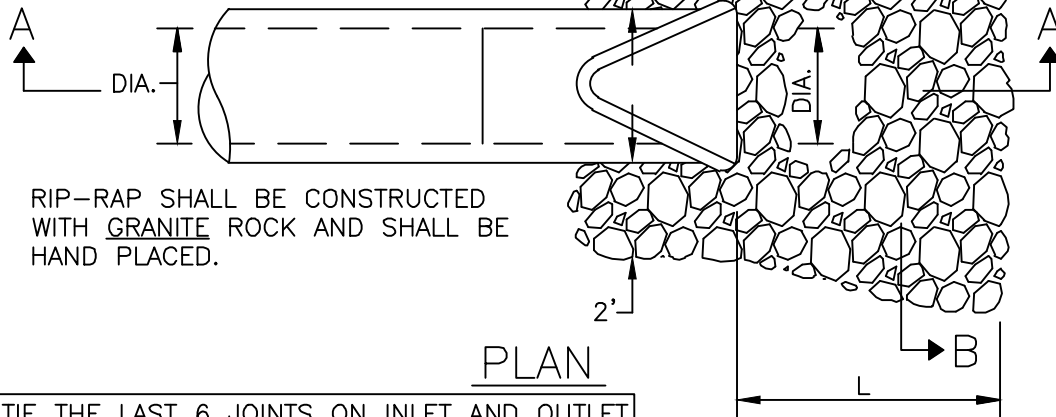
NONWOVEN GEOTEXTILE FABRIC

SECTION B-B

MINIMUM RIPRAP REQUIRED

DIA. OF PIPE (IN.)	L (FT.)	QUANTITY (C.Y.)	CLASS
12	8	5	III
15	8	5	III
18	10	6	III
24	12	8	III
30	14	12	III
36	16	14	III
42	18	22	IV
48	20	26	IV
>48	22-28	30-40	IV

NOTE:
ONE CUBIC YARD IS
APPROXIMATELY 1.4 TONS.

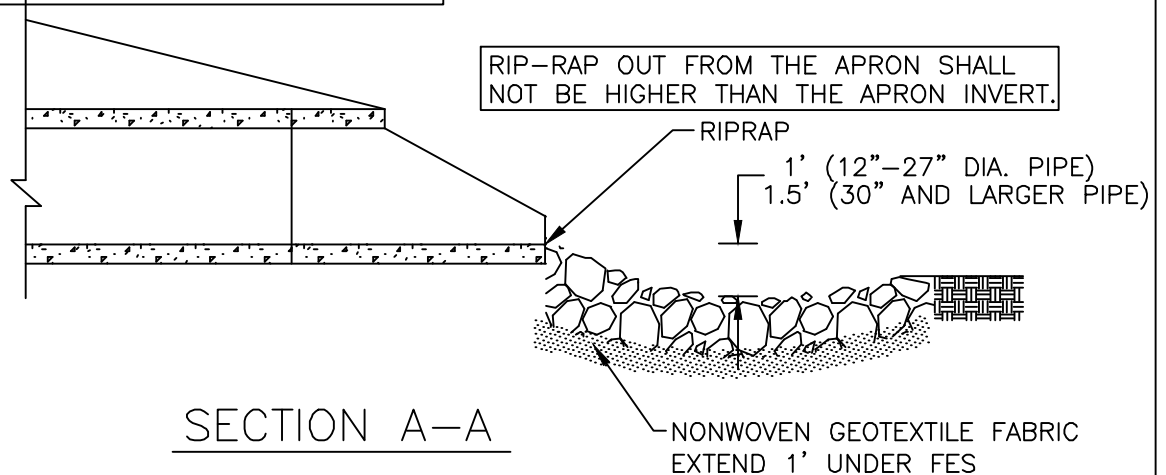


RIP-RAP SHALL BE CONSTRUCTED
WITH GRANITE ROCK AND SHALL BE
HAND PLACED.

PLAN

TIE THE LAST 6 JOINTS ON INLET AND OUTLET
PIPES AND BED IN GRANULAR MATERIAL.

RIP-RAP OUT FROM THE APRON SHALL
NOT BE HIGHER THAN THE APRON INVERT.



SECTION A-A

RIP-RAP REQUIRED AT
ALL APRONS



STANDARD DETAILS
RIPRAP DETAIL FOR FLARED END SECTIONS
CITY OF PLYMOUTH

PUBLISHED
1-18

CITY PL. NO.
ST-4
REVISED 1-17