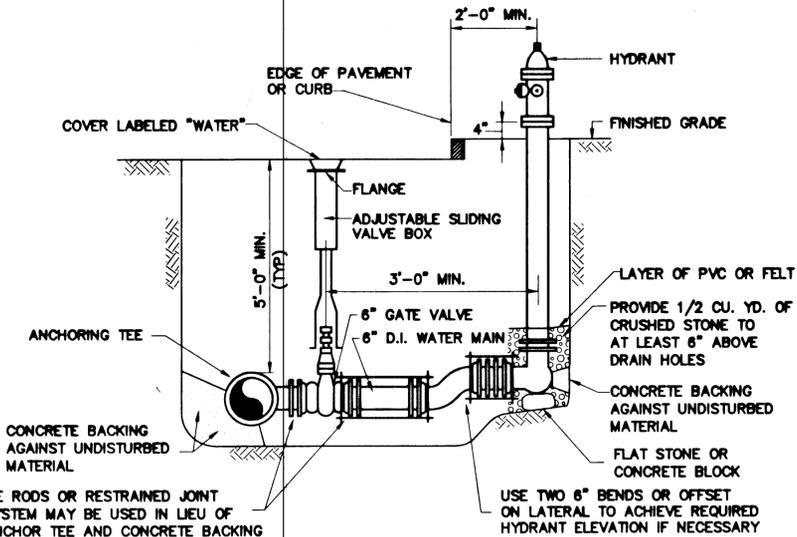
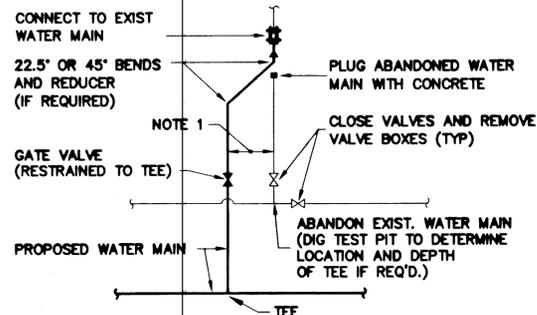


WATER SERVICE DETAIL
N.T.S.



HYDRANT AND VALVE DETAIL
N.T.S.



WATER MAIN LATERAL CONNECTION
N.T.S.

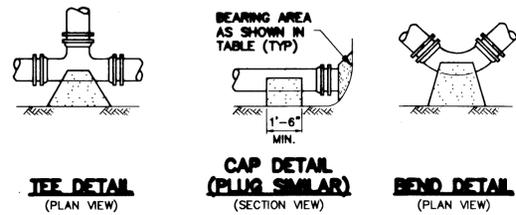
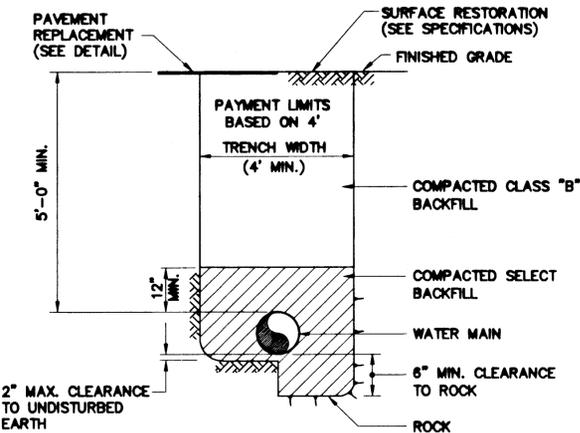


TABLE OF CONCRETE THRUST RESTRAINT MINIMUM BEARING AREAS IN SQUARE FEET AGAINST UNDISTURBED MATERIAL FOR WATER MAIN FITTINGS

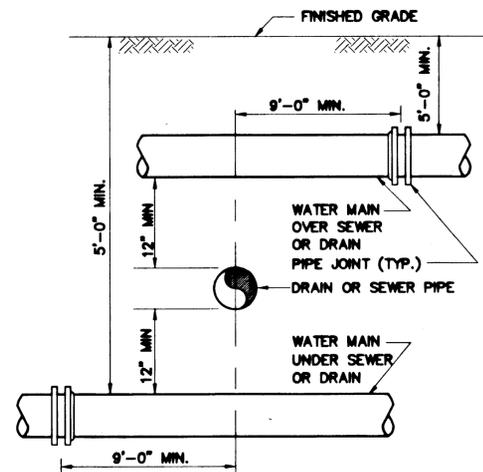
SIZE OF MAIN	90° BENDS, TEES, CAPS AND PLUGS	45° BENDS AND WYES	22-1/2° BENDS	11-1/4° BENDS
6", 8"	5	4	2	2
10", 12"	12	9	5	2
16"	20	15	8	4
20"	36	24	13	7

NOTES: 1. ALL WATER MAIN FITTINGS SHALL HAVE CONCRETE BACKING FOR THRUST RESTRAINT UNLESS OTHERWISE SPECIFIED.
2. CONTRACTOR SHALL USE CARE TO AVOID PLACEMENT OF CONCRETE ON THE FITTING JOINTS

CONCRETE THRUST RESTRAINT FOR FITTINGS
N.T.S.



WATER MAIN TRENCH DETAIL
N.T.S.



SEWER OR DRAIN CROSSING DETAIL
N.T.S.

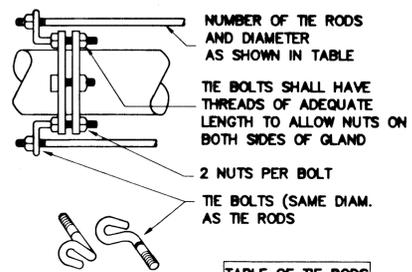
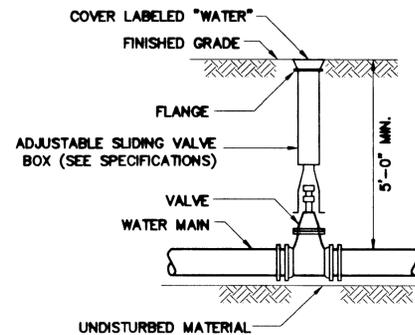


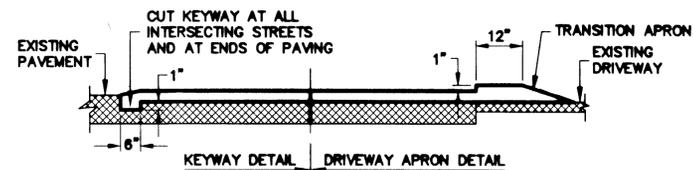
TABLE OF TIE RODS

PIPE SIZE	TIE ROD NO.	TIE ROD DIA.
6"	2	1/2"
8"	2	5/8"
10"	2	3/4"
12"	4	3/4"
16"	6	3/4"

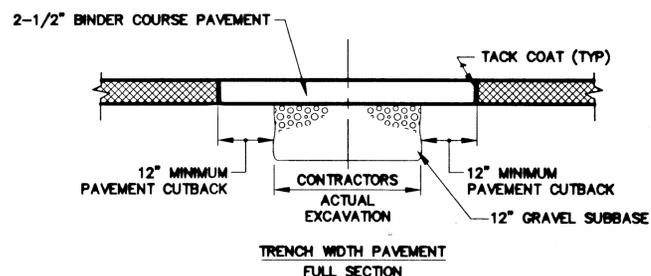
JOINT RESTRAINT DETAIL
N.T.S.



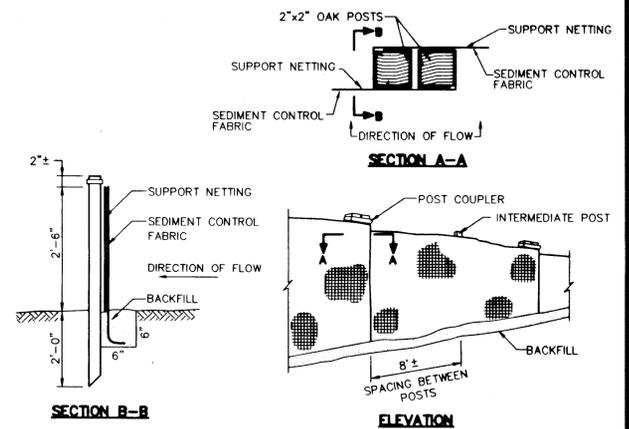
VALVE AND BOX DETAIL
N.T.S.



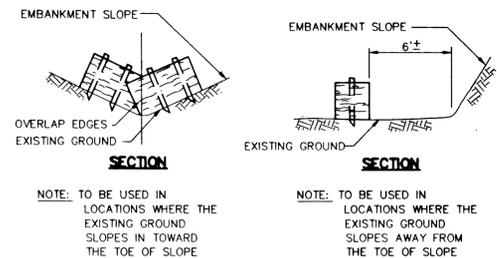
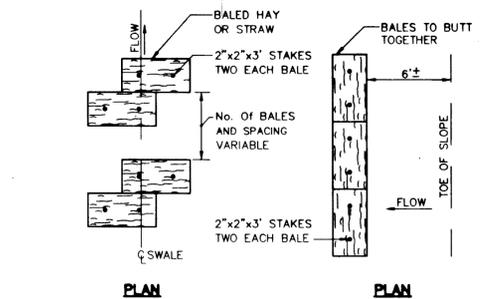
KEYWAY AND DRIVEWAY APRON DETAIL
N.T.S.



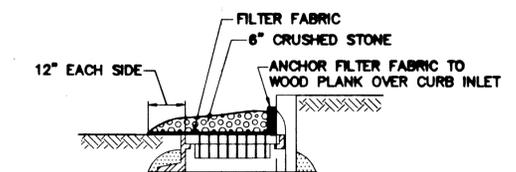
TEMPORARY PAVEMENT REPLACEMENT DETAILS
N.T.S.



SILT FENCE DETAIL
N.T.S.



HAY BALES DETAIL
N.T.S.



CATCH BASIN INLET PROTECTION DETAIL
N.T.S.

Weston & Sampson ENGINEERS, INC.
Five Centennial Drive, Peabody, MA 01960-7985

FILE NO. 133-42
JOB NO. 200383
CONTRACT: AS NOTED
SCALE: RC-4
DATE: 04/02/01

RECORD DRAWING Description
P.C. App. By
D.R.L. Ck. By
W.S. Dr. By
1 5/02 No. Date

A P P R O V E D
REGISTERED PROFESSIONAL ENGINEER

TOWN OF EAST LONGMEADOW, MASSACHUSETTS
BOARD OF PUBLIC WORKS
WESTWOOD AVENUE WATER MAIN IMPROVEMENTS

DETAILS

C-4

RECORD DRAWING

SHEET 6 OF 6