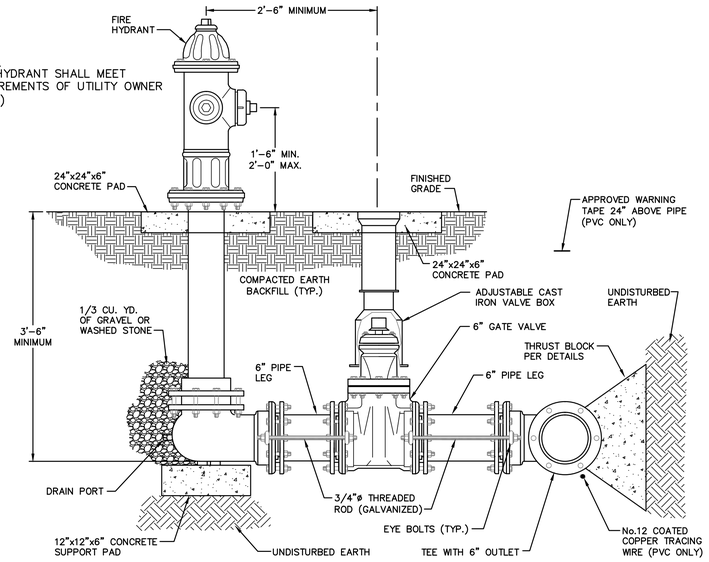
REVISIONS

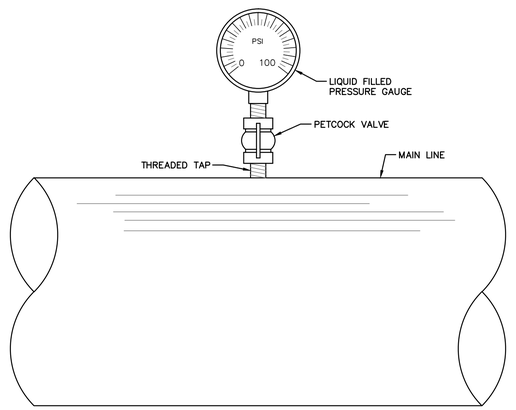


NOTE:
FIRE HYDRANT SHALL MEET REQUIREMENTS OF UTILITY OWNER (TWSA)

TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

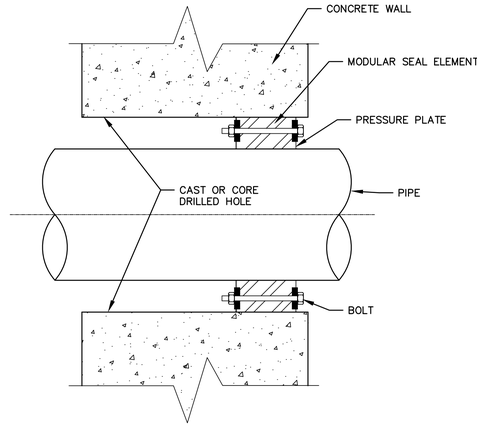
REVISION DATE - NOVEMBER 3, 2008

NOTE:
MAXIMUM PRESSURE READING SHALL BE 1 1/2 TIMES WORKING PRESSURE OR 20 PSI GREATER THAN TEST PRESSURE, WHICHEVER IS GREATER.



PRESSURE GAUGE DETAIL

REVISION DATE - NOVEMBER 3, 2008



CAST OR CORE DRILLED HOLE INSTALLATION

GENERAL NOTES:

1. TYPE OF SLEEVE SHALL BE AS NOTED ON PLANS.
2. SIZING OF SEAL AND TYPE OF MATERIALS SHALL BE ACCORDING TO MANUFACTURERS RECOMMENDATIONS FOR SIZE AND MATERIAL OF PIPE AND SIZE AND TYPE OF OPENING. BOLTS AND HARDWARE SHALL BE STAINLESS STEEL UNLESS APPROVED BY ENGINEER.

MODULAR SEAL DETAIL

REVISED FOR THIS PROJECT

PROJECT REFERENCE NO.	SHEET NO.
B-4159	UC-9
DESIGNED BY: VW	
DRAWN BY: VW	
CHECKED BY: MJW	
APPROVED BY:	
REVISED:	

McGill ASSOCIATES
ENGINEERING·PLANNING·FINANCE

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19950 MICHAEL J. WARREN
Documents not considered sealed by NCBELS unless all pages bear original signature and date

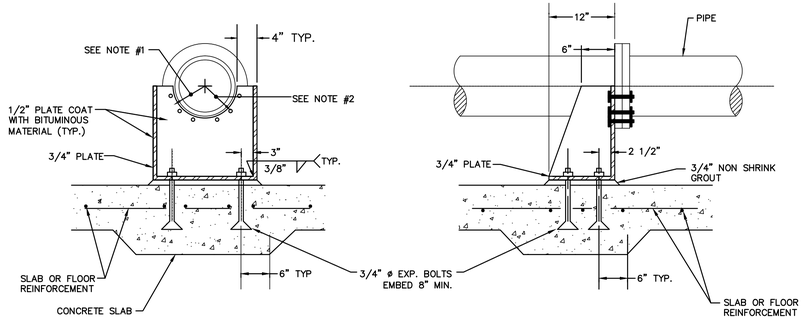
10/13/2015

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

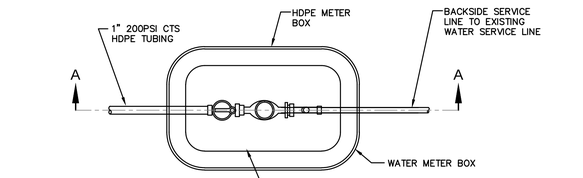
DETAILS

NOTES:
1. BOLT CIRCLE IN 1/2" PLATE AND BOLT DIAMETER SHALL BE SET IN ACCORDANCE WITH BOLT CIRCLE OF PIPE FLANGE AND FLANGE BOLTS.
2. RADIUS OF 1/2" PLATE SHALL BE SET BY RADIUS OF PIPE O.D.
3. ALL WELDS SHALL BE GROUND SMOOTH.

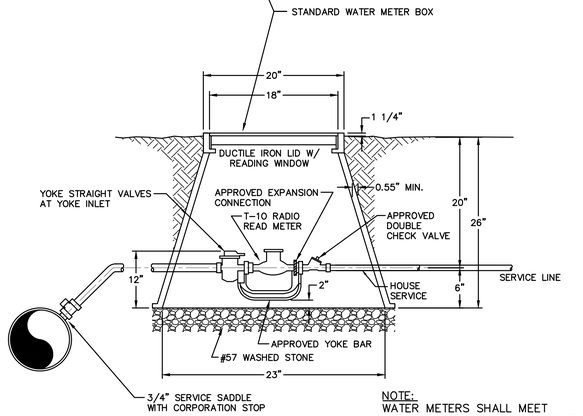


METAL PIPE SUPPORT DETAIL

REVISION DATE - NOVEMER 3, 2008



PLAN

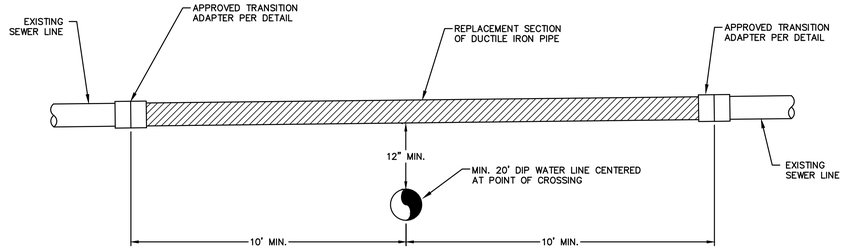


NOTE:
WATER METERS SHALL MEET REQUIREMENTS OF UTILITY OWNER (TWSA)

SECTION A-A

STANDARD 5/8" WATER METER BOX DETAIL

REVISED FOR THIS PROJECT

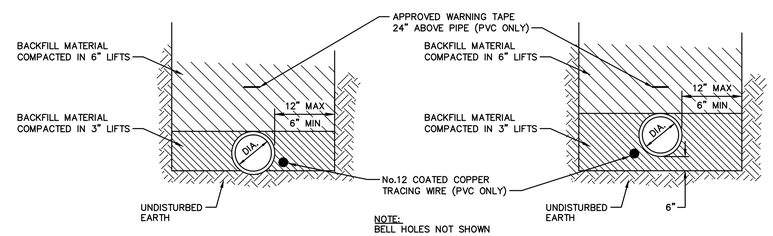


NOTE: THIS DETAIL SHALL ONLY BE USED IF WATER AND SEWER SEPARATIONS AS REQUIRED IN NOTE 8 OF THE GENERAL WATER NOTES CANNOT BE MET

SEWER REPLACEMENT DETAIL FOR WATER CROSSINGS

(WATER CROSSING UNDER SEWER)

REVISION DATE - APRIL, 2012



NOTE:
BELL HOLES NOT SHOWN

STANDARD EXCAVATION

OVERCUT EXCAVATION

NOTE:
1. CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY.

TYPICAL TRENCHING DETAILS WATER LINES

REVISION DATE - NOVEMBER 3, 2008

Q:\2014\14.00349\Design\Water\Drawings\NCDOT SUBMITTAL DWGS\14.00349 WATER LINE ON BRIDGE Redesign.dwg 9/21/2015 9:10 AM VANN WATERS