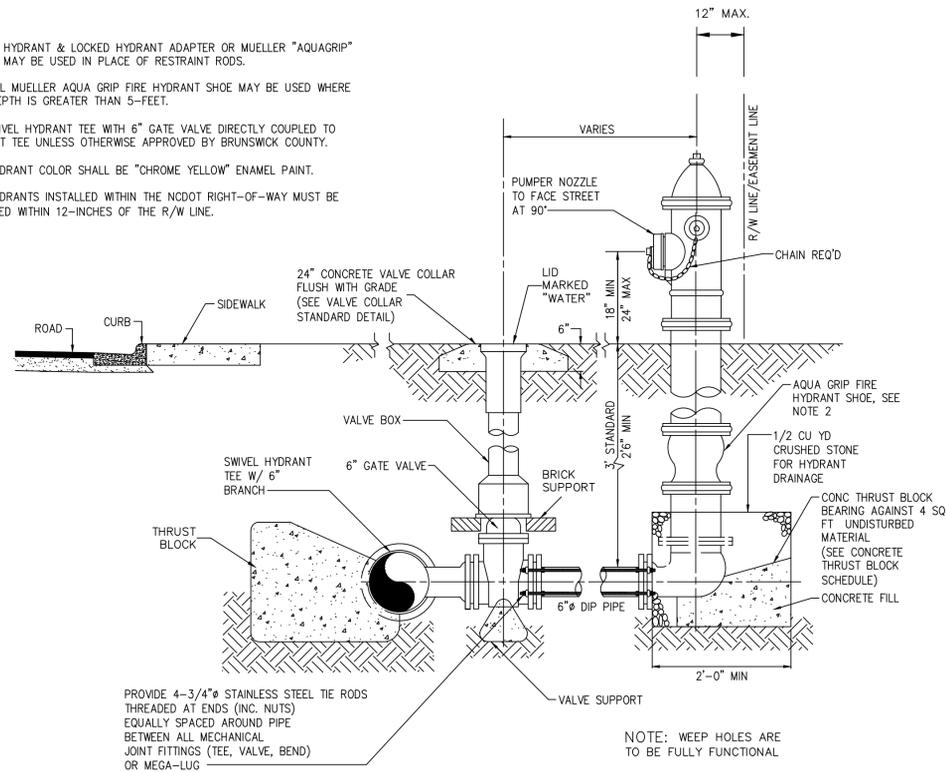


NOTES:

1. LOCKED HYDRANT & LOCKED HYDRANT ADAPTER OR MUELLER "AQUAGRIP" SYSTEM MAY BE USED IN PLACE OF RESTRAINT RODS.
2. VERTICAL MUELLER AQUA GRIP FIRE HYDRANT SHOE MAY BE USED WHERE MAIN DEPTH IS GREATER THAN 5- FEET.
3. USE SWIVEL HYDRANT TEE WITH 6" GATE VALVE DIRECTLY COUPLED TO HYDRANT TEE UNLESS OTHERWISE APPROVED BY BRUNSWICK COUNTY.
4. FIRE HYDRANT COLOR SHALL BE "CHROME YELLOW" ENAMEL PAINT.
5. FIRE HYDRANTS INSTALLED WITHIN THE NCDOT RIGHT-OF-WAY MUST BE INSTALLED WITHIN 12-INCHES OF THE R/W LINE.

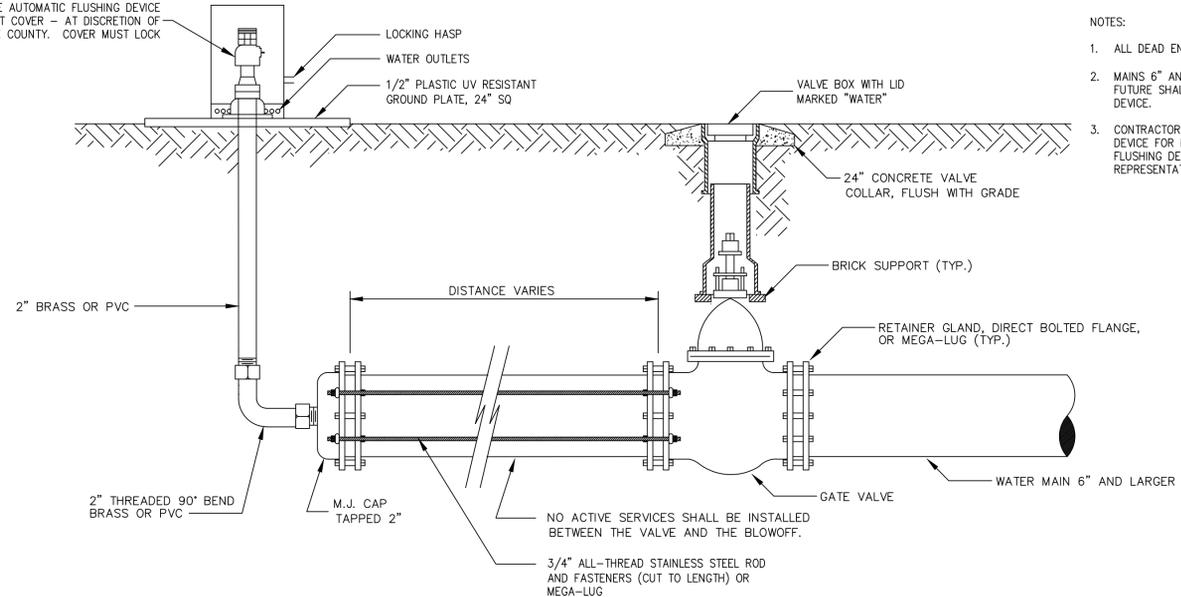


FIRE HYDRANT  
DETAIL W-1

PROVIDE 4-3/4" STAINLESS STEEL TIE RODS THREADED AT ENDS (INC. NUTS) EQUALLY SPACED AROUND PIPE BETWEEN ALL MECHANICAL JOINT FITTINGS (TEE, VALVE, BEND) OR MEGA-LUG

NOTE: WEEP HOLES ARE TO BE FULLY FUNCTIONAL

KUPFERLE 9400 ECLIPSE AUTOMATIC FLUSHING DEVICE WITH UV RESISTANT COVER - AT DISCRETION OF BRUNSWICK COUNTY. COVER MUST LOCK



AUTOMATIC FLUSHING DEVICE FOR MAINS 6" AND LARGER (FOR MAINS TO BE EXTENDED LATER)  
DETAIL W-2

NO ACTIVE SERVICES SHALL BE INSTALLED BETWEEN THE VALVE AND THE BLOWOFF.  
3/4" ALL-THREAD STAINLESS STEEL ROD AND FASTENERS (CUT TO LENGTH) OR MEGA-LUG

NOTES:

1. ALL DEAD END LINES WILL HAVE FLUSHING DEVICES.
2. MAINS 6" AND GREATER NOT BEING EXTENDED IN THE FUTURE SHALL USE A FIRE HYDRANT FOR A FLUSHING DEVICE.
3. CONTRACTOR SHALL REMOVE AUTOMATIC FLUSHING DEVICE FOR MAIN EXTENSIONS AND DELIVER AUTOMATIC FLUSHING DEVICE TO BRUNSWICK COUNTY REPRESENTATIVE.

Revisions

1.1 - DATED 4/30/2013	Modified W-2 and W-3
1.2 - DATED 5/29/2013	Added Note 5 to W-1
1.3 - DATED 7/15/2015	MOD. W-1, W-3, & W-4

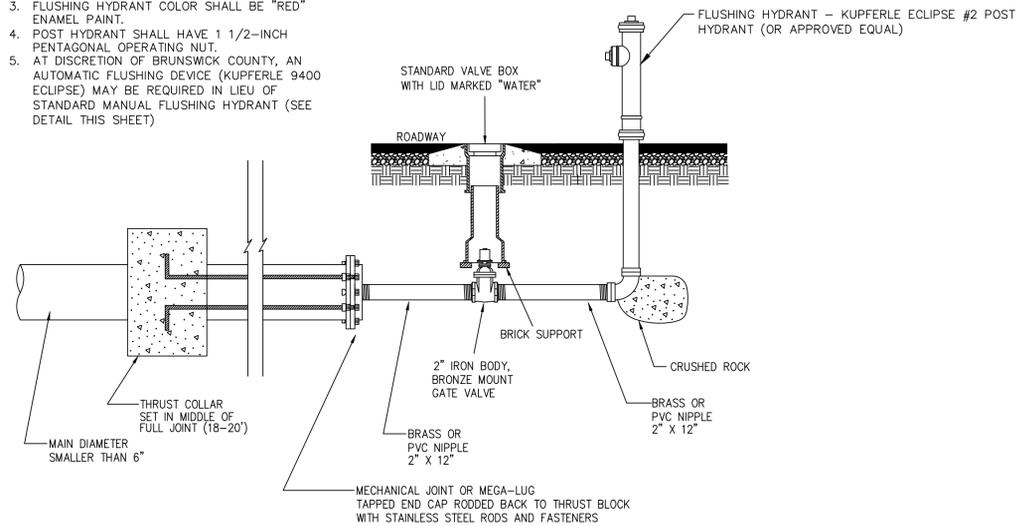
COUNTY OF BRUNSWICK

GENERAL WATER DETAILS FOR  
BRUNSWICK COUNTY  
NORTH CAROLINA

Date: 05-22-12  
Scale: NTS  
Drawn By: JDM  
Checked By: WLP

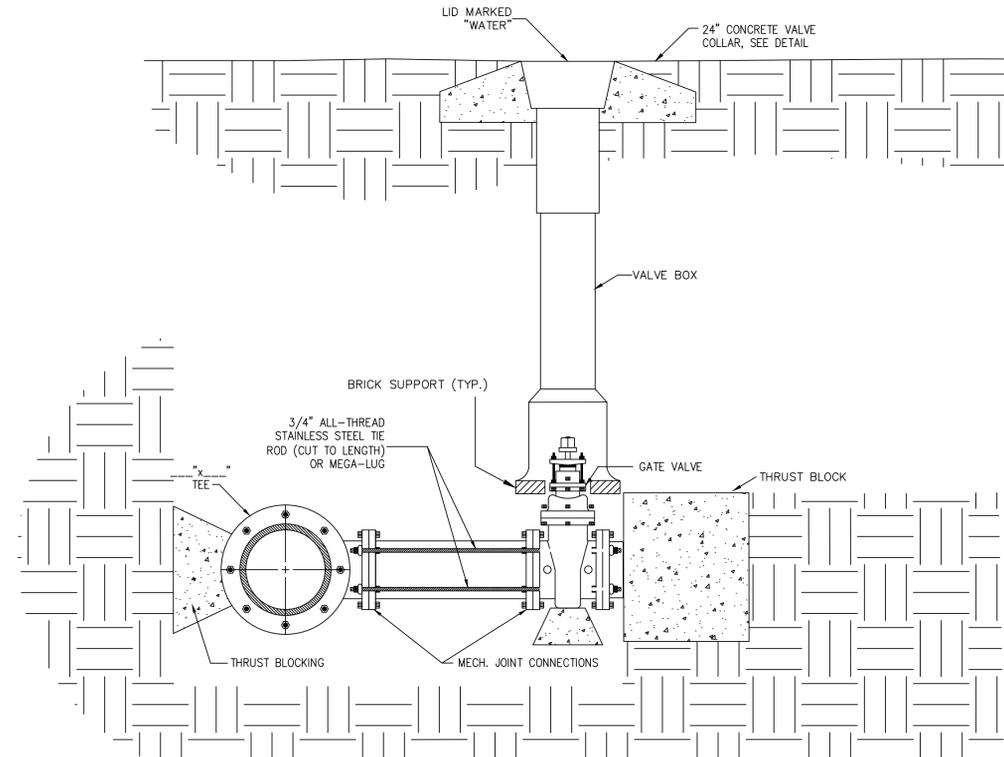
NOTES:

1. ALL DEAD END LINES WILL HAVE FLUSHING DEVICE.
2. MAINS 6" AND LARGER SHALL USE A FIRE HYDRANT FOR A FLUSHING DEVICE.
3. FLUSHING HYDRANT COLOR SHALL BE "RED" ENAMEL PAINT.
4. POST HYDRANT SHALL HAVE 1 1/2-INCH PENTAGONAL OPERATING NUT.
5. AT DISCRETION OF BRUNSWICK COUNTY, AN AUTOMATIC FLUSHING DEVICE (KUPFERLE 9400 ECLIPSE) MAY BE REQUIRED IN LIEU OF STANDARD MANUAL FLUSHING HYDRANT (SEE DETAIL THIS SHEET)



STANDARD FLUSHING DEVICE FOR MAINS LESS THAN 6" DETAIL W-3

MECHANICAL JOINT OR MEGA-LUG TAPPED END CAP RODDED BACK TO THRUST BLOCK WITH STAINLESS STEEL RODS AND FASTENERS



BRANCH STUB-OUT FOR FUTURE CONNECTION  
(6-INCH DIA AND LARGER MAIN)  
DETAIL W-4

NOTES:

1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
2. ALL TIE RODS AND NUTS TO BE STAINLESS STEEL.
3. LENGTH OF PIPE SHALL BE MINIMUM NEEDED TO INSTALL FITTINGS. VALVE SHALL BE BOLTED DIRECTLY TO TEE WHENEVER POSSIBLE.

ROD REQUIREMENTS	
BRANCH SIZE	NO. OF RODS
4"	2 EA.
6"	2 EA.
8"	4 EA.
12"	4 EA.
16"	6 EA.
20"	6 EA.
24"	6 EA.