

GENERAL NOTES

WATER MAIN PREPARATION
SURVEYORS ARE REQUIRED TO PLACE 5' OFFSET STAKES FROM FACE OF CURB OR EDGE OF ROADWAY AT 50' INTERVALS SHOWING THE FACE OF CURB AND TOP OF CURB GRADE.

WATER MAIN INSTALLATION

INSTALLATION MAY COMMENCE WHEN DEVELOPERS ESCROWS SIGNED AGREEMENTS AND BOARD APPROVALS ARE IN PLACE. 72 HOUR NOTICE MUST PROVIDED BEFORE PIPE MAY BE INSTALLED.

WHEN WATER MAIN IS BEING INSTALLED IN AN AREA WHERE THE GRADE IS ABOVE THE ROAD SURFACE, THE WATER MAIN MUST BE INSTALLED WITH FOUR FEET OF COVER FROM THE TOP OF THE ROAD SURFACE.

WATER MAIN INSTALLED UNDER A CREEK BED, A GAS MAIN OR IN CORROSIVE SOIL WILL REQUIRE EACH SECTION OF WATER MAIN TO BE ENCASED WITH POLYETHYLENE FILM. THE POLYETHYLENE FILM SHOULD BE FITTED WITH MINIMUM SPACE BETWEEN THE FILM AND THE PIPE. OVERLAPS AND ENDS SHOULD BE SECURED WITH ADHESIVE TAPE OR PLASTIC TIE STRAPS.

PIPE STOCKPILED FOR MORE THAN 24 HOURS ON THE JOB SITE WILL HAVE THE BELLS AND SPIGOTS WRAPPED WITH A POLYETHYLENE FILM AND/OR TARP TO PREVENT CONTAMINATION, UNLESS FIELD CONDITIONS DICTATE IMMEDIATE WRAPPING.

DUCTILE IRON PIPE AND FITTINGS

1. DUCTILE IRON PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI A21.51 (AWWA C151) AMERICAN STANDARD FOR DUCTILE IRON PIPE.
2. PIPE SHALL BE CLASS 52 THICKNESS IN ACCORDANCE WITH ANSI A21.51 (AWWA C151).
3. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CEMENT LINED AND COATED OUTSIDE WITH A BITUMINOUS SEAL COAT IN ACCORDANCE WITH ANSI A21.4 (AWWA C104) OR EPOXY COATED.
4. THE FITTINGS SHALL BE SHORT BODY MECHANICAL JOINT FITTINGS AND SHALL CONFORM TO AWWA 153SSB EXCEPT WHERE DETAILED OTHERWISE ON THE DRAWINGS. ALL MECHANICAL JOINT FITTINGS SHALL BE SECURED WITH MEGA LUGS.
5. REQUIRED FIELD LOCK USAGE WILL BE DETERMINED BY FIELD INSPECTOR. FIELD LOCKS WILL BE MADE AVAILABLE BY NPWA.
VALVES AND VALVE BOXES
VALVES CONNECTED TO LIVE WATER MAINS MAY ONLY BE OPERATED BY NPWA PERSONNEL. CONTRACTORS AND DEVELOPERS MAY NOT OPERATE ANY CHARGED WATER MAIN OPEN TO THE SYSTEM.
 1. ALL GATE VALVES REQUIRED FOR 4" THRU 16" DIAMETER MAIN SHALL BE EITHER OR APPROVED EQUAL:
 - MUELLER #H-615 AND T-2360-16D GATE VALVE MANUFACTURED BY MUELLER CO., DECATUR, ILLINOIS.
 - U.S. PIPE T-9 AND METRO SEAL 250 MANUFACTURED BY U.S. PIPE AND FOUNDRY CO., BIRMINGHAM, AL.
 - KENNEDY KENSEAL II RESILIENT WEDGE VALVE MANUFACTURED BY KENNEDY VALVE, ELMIRA, NY.
 - AMERICAN FLOW CONTROL SERIES 2500 RESILIENT WEDGE VALVE MANUFACTURED BY AFC, LATHAM, NY
 2. BUTTERFLY VALVES WILL BE USED FOR ALL 18" OR LARGER INSTALLATIONS.
 3. ALL BUTTERFLY VALVES SHALL BE MUELLER LINE SEAL III BUTTERFLY VALVE NO. B-3211-20. MANUFACTURED BY HENRY PRATT CO. WITH ELASTOMETRIC SEAT IN THE BODY OF THE VALVE.
 4. VALVES SHALL BE MOUNTED VERTICALLY, EXCEPT IF OTHER WISE NOTED ON THE DRAWINGS AND SHALL HAVE MECHANICAL JOINT ENDS.
 5. ALL VALVES SHALL OPEN BY TURNING COUNTERCLOCKWISE AND SHALL HAVE A STANDARD 2" OPERATING NUT.
 6. ALL BURIED VALVES SHALL BE FURNISHED WITH A CAST IRON VALVE BOX. ALL VALVE BOXES SHALL BE EITHER:
 - BUFFALO TYPE-TWO (2) PIECE SCREW TYPE 5-1/4" SHAFT.
 - TYLER SERIES 6850, MANUFACTURED BY TYLER PIPE COMPANY.
 7. VALVE BOXES SHALL BE TWO-PIECE, SCREW-TYPE INSTALLED OVER THE BONNET AND OPERATING NUT. VALVE BOXES SHALL BE OF SUFFICIENT LENGTH TO REACH THE SURFACE OF THE GROUND BUT NOT EXTEND ABOVE THE GROUND SURFACE. VALVE NUT EXTENSIONS SHALL BE INSTALLED AS NECESSARY TO INSURE THE VALVE CAN BE TURNED FROM GROUND LEVEL WITH A 6' LONG VALVE NUT KEY WRENCH.
 8. DEVELOPERS AND THEIR CONTRACTORS SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTAINANCE OF VALVE BOXES. VALVE BOXES SHALL BE IN A VERTICAL OPERABLE CONDITION. ALL BROKEN, BURIED OR FILLED VALVE BOXES WILL BE DUG OUT AND REPAIRED AT THEIR EXPENSE.