

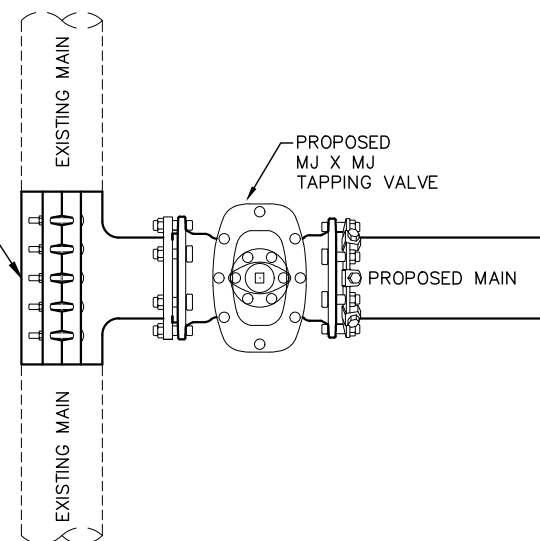
TRACER WIRE ANODE DETAIL
NOT TO SCALE

TRACER WIRE ANODE NOTES

ANODE RODS SHALL BE PLACED AT ALL STREET INTERSECTIONS OR AS DIRECTED BY THE CITY OF GREENVILLE. THE ANODE SHALL BE PLACED BELOW THE BOTTOM OF THE PROPOSED WATER LINE, EXACT PLACEMENT AND CONNECTION TO THE TRACER WIRE SYSTEM SHALL BE AS REQUIRED BY THE GREENVILLE WATER DEPARTMENT.

THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL THE ANODES SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE PROPOSED WATER MAIN.

PROPOSED STAINLESS STEEL MECHANICAL JOINT TAPPING SLEEVE, TOTAL PIPING SOLUTIONS TRIPLE TAP TAPPING SLEEVE, ROMAC SST TAPPING SLEEVE, OR EQUAL

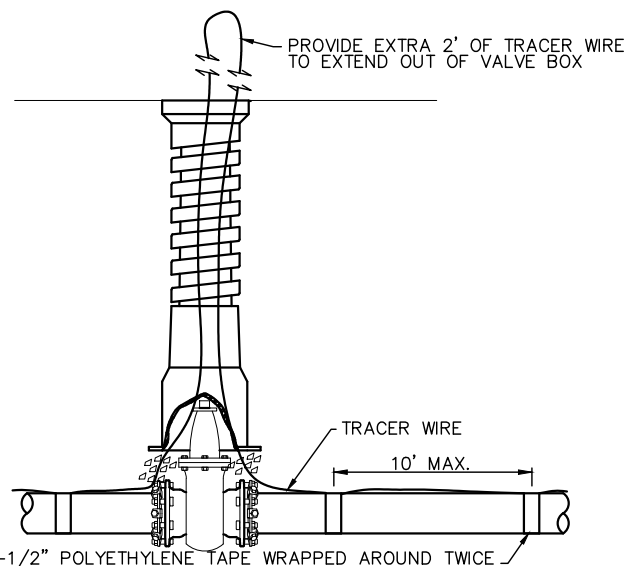


TAPPING SLEEVE FOR WATER MAINS

NOTES

A. PRIOR TO TAPPING EXISTING MAIN, TEST SLEEVE TO 150 PSI, OR 1.5 TIMES THE ANTICIPATED STATIC PRESSURE, WHICHEVER IS GREATER. THE TEST PRESSURE SHALL BE HELD FOR A MINIMUM OF 15 MINUTES.

B. TAPPING SLEEVE AND VALVE SHALL BE PROVIDED BY CONTRACTOR WHEN TYING INTO THE EXISTING WATER MAIN.



TRACER WIRE DETAIL

TRACER WIRE NOTES

A. FOR OPEN CUT CONSTRUCTION TRACER WIRE SHALL BE STEEL CORE COPPER CLAD REINFORCED WIRE #12 AWG OR STAINLESS STEEL #12 AWG WITH 30 MIL HIGH DENSITY POLYETHYLENE COATING. TRACER WIRE SHALL BE BLUE FOR WATER. TRACER WIRE SHALL HAVE A MINIMUM 380 LBS. TENSILE BREAK LOAD.

FOR DIRECTIONAL DRILL CONSTRUCTION TRACER WIRE SHALL BE COPPERHEAD SOLOSHOT REINFORCED TRACER WIRE MANUFACTURED BY COPPERHEAD INDUSTRIES, LLC. BLUE FOR WATER.

B. TRACER WIRE MUST BE RUN ON TOP OF THE PIPE CONTINUOUSLY FOR THE FULL LENGTH OF THE PIPE.

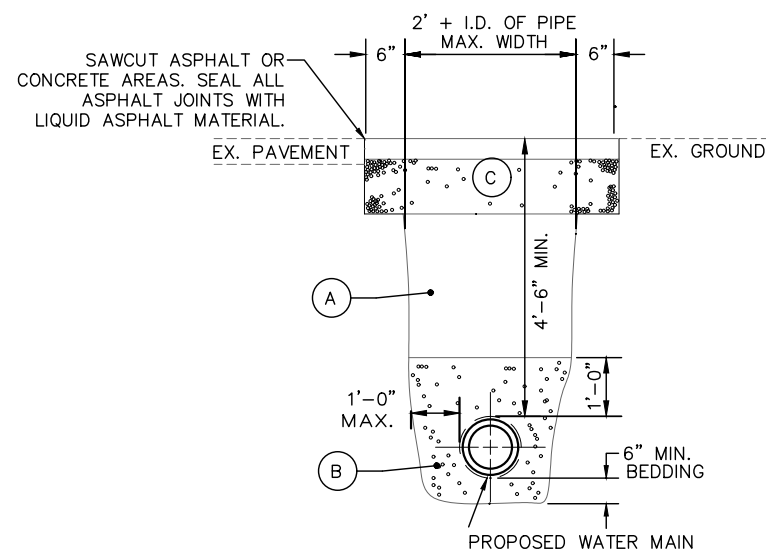
C. TRACER WIRE WILL BE INSTALLED ON ALL NEW INSTALLATION AND WILL COME TO THE SURFACE AT EVERY VALVE CHAMBER, VALVE BOX CURB BOX AND FIRE HYDRANT.

D. WHEN TRACER WIRE MUST BE SPLICED, USE ONLY AN APPROVED SPLICE KIT FILLED WITH MOISTURE DISPLACEMENT SILICONE FOR CORROSION RESISTANT PROTECTION. 3-WAY WIRE CONNECTIONS FROM MAIN TO HYDRANT, VALVE BOX OR VAULT WILL BE MADE ONLY WITH APPROVED DIRECT BURY CONNECTOR WITH MOISTURE DISPLACEMENT SILICONE FILLED CAP FOR CORROSION RESISTANT PROTECTION.

E. TO TERMINATE TRACER WIRE, USE A A MAGNETIZED TERMINATION BOX FEATURING A CORROSION-RESISTANT BRASS WIRE LUG AND A WAX PAD TO COVER WIRE CONNECTIONS AFTER INSTALLATION AND LOCK OUT MOISTURE. THE TERMINATION BOX SHALL BE CAPABLE OF ALLOWING CONNECTION TO UNDERGROUND WIRES WITHOUT REMOVING THE CAP. LOOP 18-24 INCHES OF WIRE INSIDE TERMINATION BOX. THE TERMINATION BOX MUST BE RATED FOR ITS APPLICATION, I.E. FOR USE IN CONCRETE, ASPHALT OR NEW INSTALLATION IN THE GROUND.

F. ALL MATERIAL, LABOR, EQUIPMENT NEEDED FOR THE INSTALLATION OF THE TRACER WIRE SHALL BE INCIDENTAL TO WATER MAIN INSTALLATION.

G. THE CONTRACTOR SHALL SCHEDULE A CONDUCTIVITY/LOCATE TEST UPON COMPLETION. THE TEST WILL BE CONDUCTED BY THE CITY.



WATER MAIN TRENCH DETAIL

TRENCH DETAIL NOTES

A. ALL TRENCH EDGES NOT UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS CAN BE COMPACTED EXISTING NATIVE MATERIAL IN 12" MAXIMUM LIFTS OR AS APPROVED BY THE CITY. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 4" DIAMETER.

ALL TRENCH EDGES UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS SHALL EITHER BE GRANULAR BACKFILL MATERIAL ODOT 703 TYPE 3 (ANGULAR #57 STONE). GRANULAR BACKFILL OF 95% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED TO BE PERFORMED BY A COMMERCIAL TESTING LAB SATISFACTORY TO THE CITY.

B. STRUCTURAL BEDDING SHALL BE CRUSHED STONE OR GRAVEL, ODOT 703 TYPE 3 (ANGULAR #57 STONE)

C. OFF-PAVEMENT AREAS SHALL BE PROVIDED WITH A MINIMUM OF 6" OF TOPSOIL OVER THE COMPACTED MATERIAL AND THEN SEEDED AND MULCHED PER ODOT ITEM 659.

D. THE OPEN ENDS OF ALL PIPES SHALL BE PLUGGED TO THE APPROVAL OF THE CITY BEFORE LEAVING THE WORK FOR THE NIGHT.

E. METAL FITTINGS, TEES, ETC. TO BE WRAPPED WITH POLYWRAP.