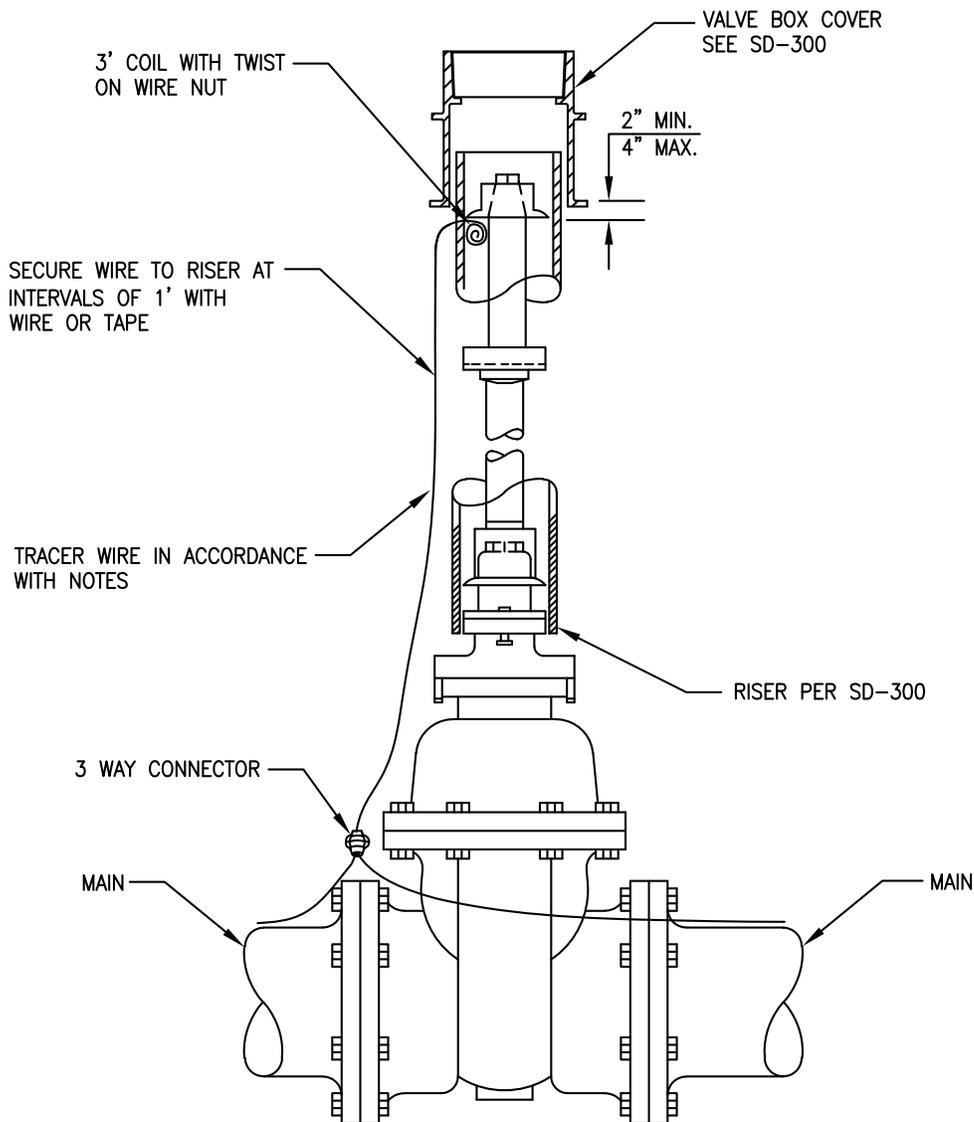


**SEE STANDARD SPECIFICATION
0210**

NOTES:

1. ALL NEW WATERLINES REQUIRE MAGNETIC LOCATOR TAPE, MARKER TAPE AND A TRACER WIRE. THE TAPE IS TO BE INSTALLED PER SD-115. THE TRACER WIRE SHALL BE 12 AWG SOLID COPPER WITH HDPE INSTALATION AND RUN ALONG THE TOP OF THE PIPE, IN A CONTINUOUS LENGTH BETWEEN VALVES, AIR RELEASE VALVES, DRAIN VALVES, MODIFIED DRAIN VALVES, STUB OUTS, AND SERVICE LINES. THE TRACER WIRE SHALL BE SECURED TO THE PIPE IN INTERVALS OF 10' (MAXIMUM) WITH TAPE PER SD 0210.
2. FOR DIP WATERLINES, TRACER WIRE SHALL BE ATTACHED TO THE OUTSIDE OF THE POLYETHYLENE ENCASEMENT.
3. THE TRACER WIRE IS TO BE CERTIFIED BY A LICENSED PRIVATE UTILITY LOCATOR. LOCATOR SHOULD BE ABLE TO DEMONSTRATED ABILITY TO LOCATE ENTIRE LENGTH OF INSTALLED FACILITY AT A LOW FREQUENCY (8.19 kHz) OR BELOW). FINAL ACCEPTANCE WILL NOT BE GRANTED UNTIL CERTIFICATION IS RECEIVED BY TUCSON WATER.
4. TRACER WIRE ON POTABLE WATER LINES SHALL BE COLORED BLUE. TRACER WIRE ON RECLAIMED WATER LINES SHALL BE COLORED PURPLE.
5. TRACER WIRE MATERIAL SHALL BE PER APPROVED MATERIAL LIST (APPENDIX A).

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/06		TRACER WIRE		SD-116
REVISED:				SHEET 1 OF 7
6/16				

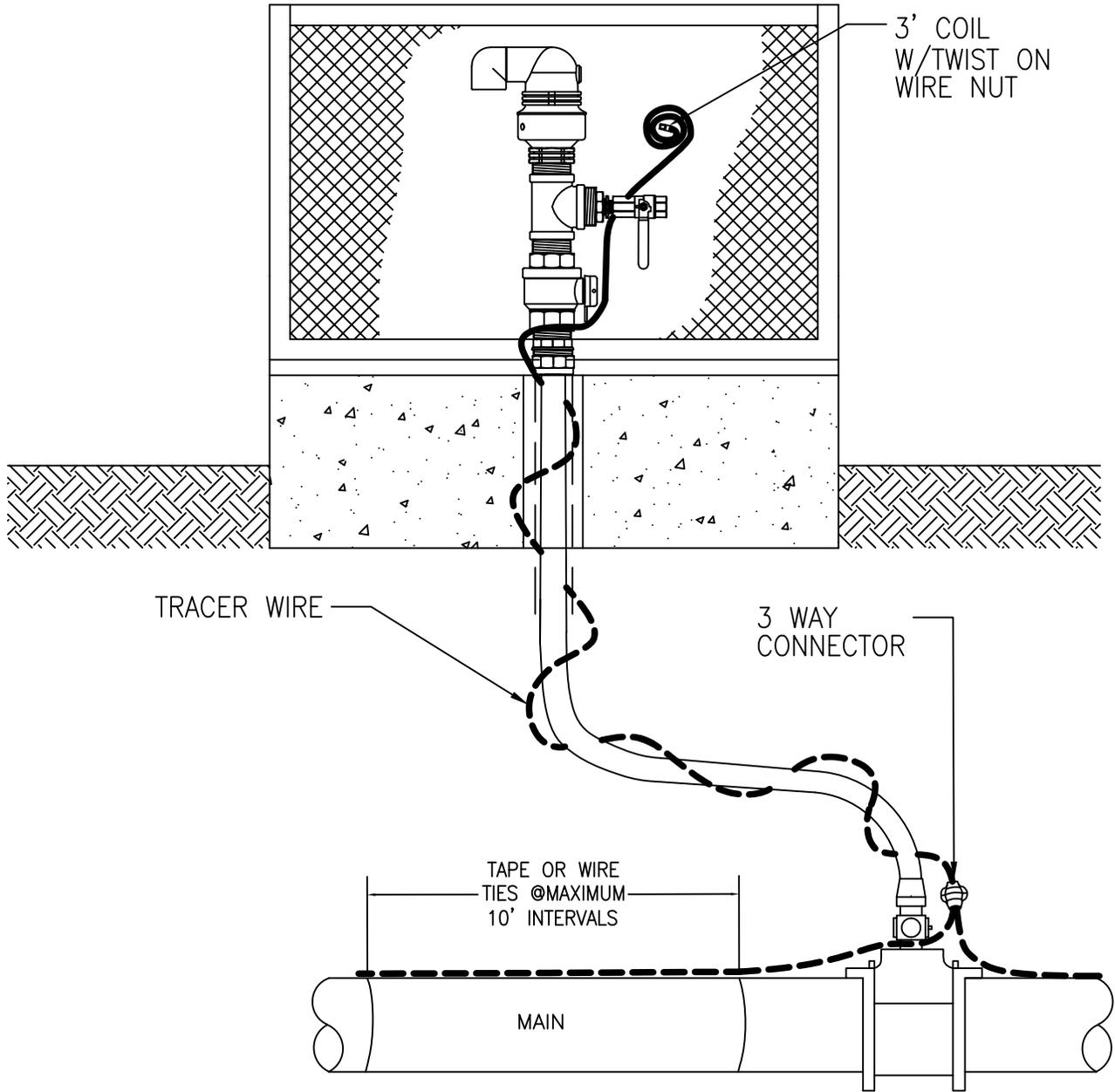


CONNECTION TO IN-LINE VALVES

NOTES:

1. TRACER WIRE SHALL BE SECURED TO THE RISER AT MAXIMUM INTERVALS OF 1'.
2. THREAD TRACER WIRE THROUGH $\frac{1}{4}$ " HOLE DRILLED IN THE RISER PIPE 2" TO 4" BELOW THE VALVE BOX. A KNOT SHALL BE TIED IN THE TRACER WIRE INSIDE THE RISER PIPE AND A 3' COIL OF WIRE LEFT NEATLY INSIDE THE RISER.
3. A TWIST ON WIRENUT SHALL BE INSTALLED ON END OF TRACER WIRE INSIDE OF RISER.

ISSUED:		STANDARD DETAIL		DETAIL NO.	
8/06		TRACER WIRE		SD-116	
REVISED:					SHEET 2 OF 7
11/17					

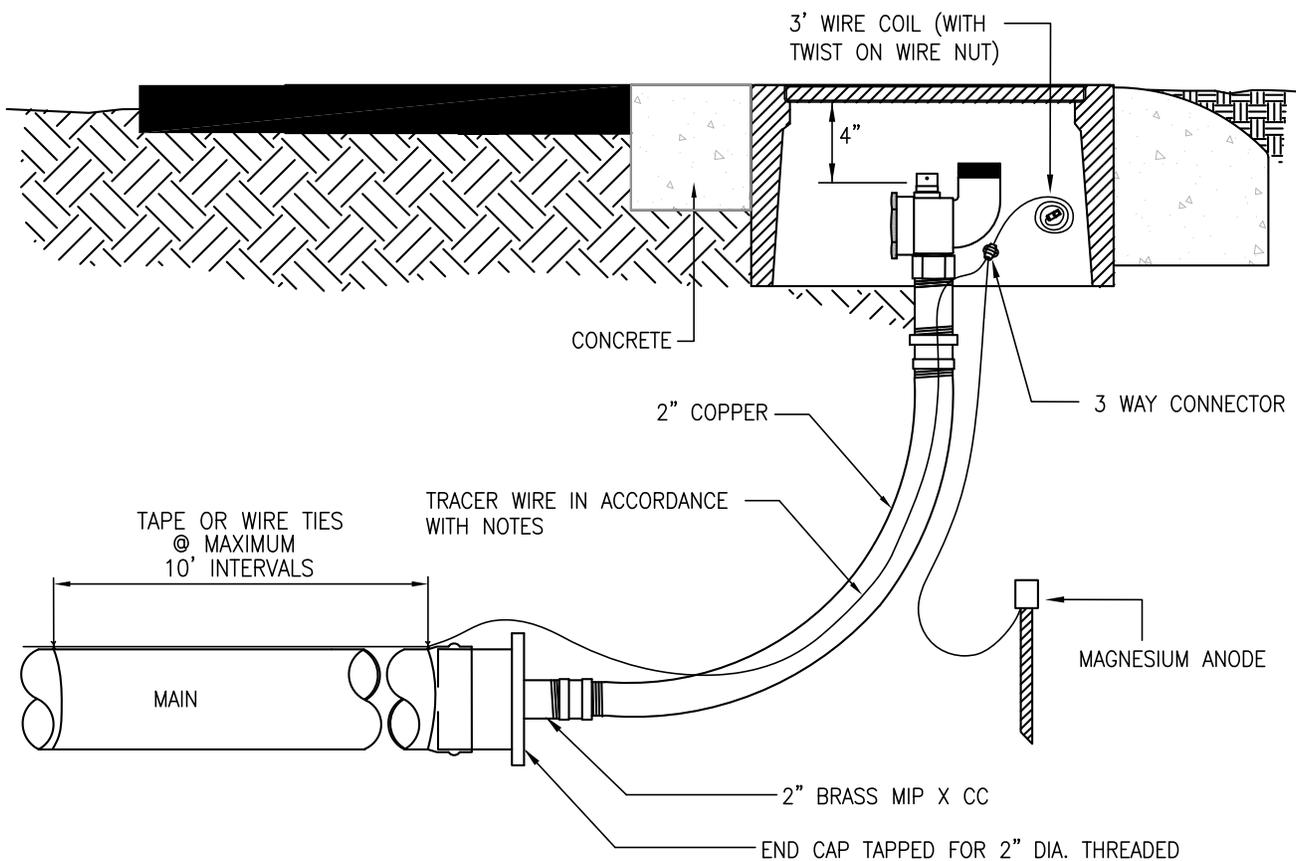


AIR RELEASE VALVE
NOT TO SCALE

NOTES:

1. THE TRACER WIRE SHALL BE ATTACHED TO THE AIR RELEASE LINE WITH TAPE AT 1' INTERVALS. A 3' COIL OF WIRE SHALL BE LEFT IN THE METER BOX
2. THIS DETAIL APPLIES TO AIR RELEASE VALVES IN SD-330 AND SD-331.

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/06		TRACER WIRE		SD-116
REVISED:		SHEET 3 OF 7		
8/16				



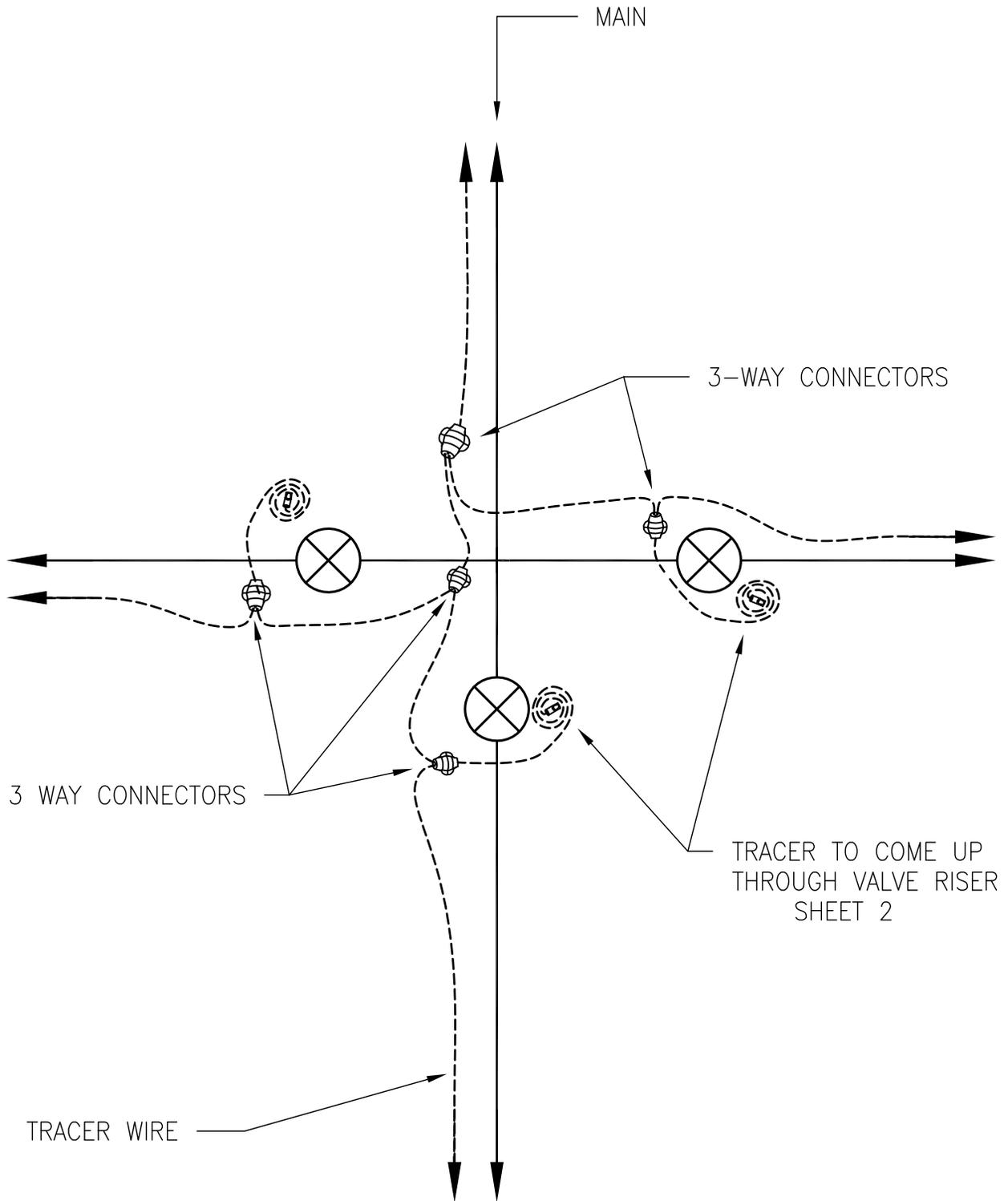
DRAIN VALVE ASSEMBLY

NOTES:

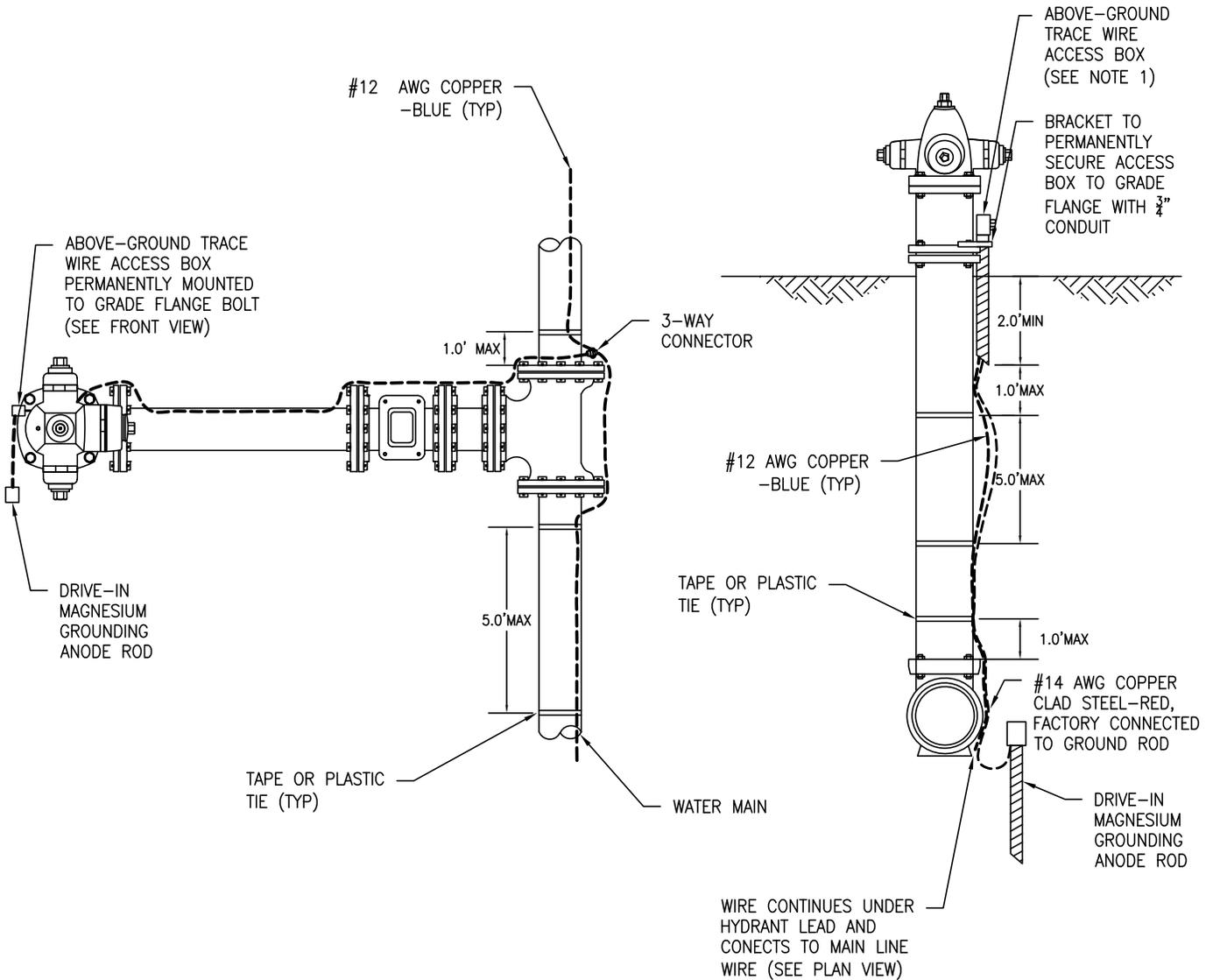
1. TYPICAL TRACER WIRE INSTALLATION FOR DRAIN VALVE ASSEMBLY (SD-400)
2. THE TRACER WIRE SHALL BE ATTACHED TO THE COPPER PIPING WITH TAPE AT 1' INTERVALS.

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/06		TRACER WIRE		SD-116
REVISED:				
6/16				SHEET 4 OF 7

EXAMPLE OF 4-WAY CROSS USING 3-WAY CONNECTORS



ISSUED:		STANDARD DETAIL		DETAIL NO.
8/06		TRACER WIRE		SD-116
REVISED:				SHEET 5 OF 7
6/16				



HYDRANT – PLAN VIEW

NO SCALE

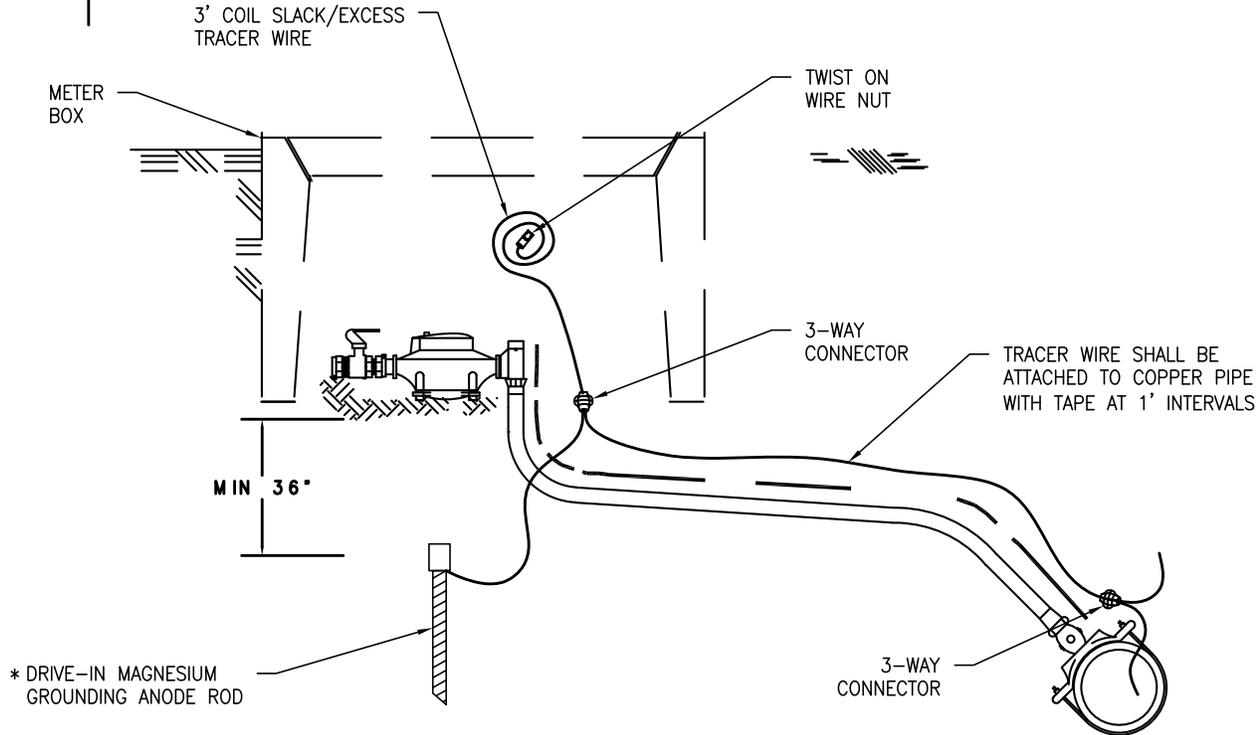
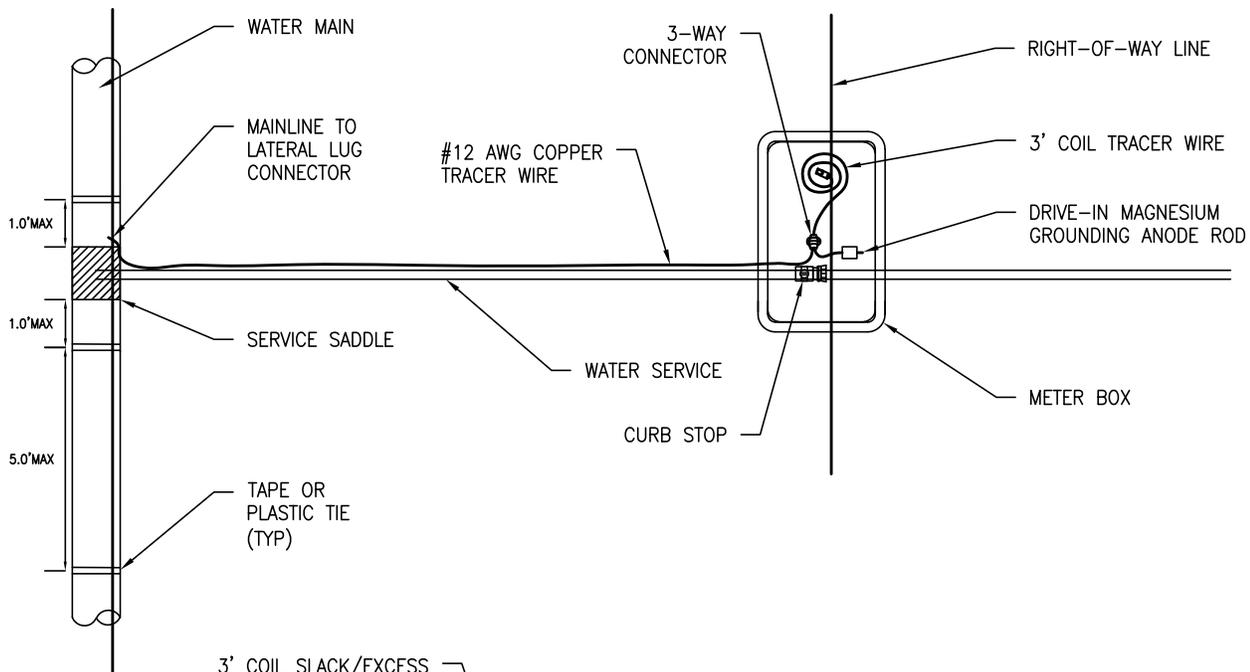
HYDRANT – SECTION VIEW

NO SCALE

NOTES:

1. TRACER WIRE BOX SHALL NOT BE INSTALLED BELOW PUMPER NOZZLE OF HOSE NOZZLE, BOX SHALL BE INSTALLED AT THE BACKSIDE OF THE FIRE HYDRANT. ALL OUTLETS MUST HAVE SUFFICIENT CLEARANCE TO OPEN WITHOUT AFFECTING THE TRACER WIRE BOX. MINIMUM 2' OF $\frac{3}{4}$ " CONDUIT SHALL BE INSTALLED TO ACCESS BOX.

ISSUED:		STANDARD DETAIL		DETAIL NO.
8/06		TRACER WIRE		SD-116
REVISED:		HYDRANT DETAIL		SHEET 6 OF 7
4/17				



***NOTE:**

WATER SERVICE ANODES ARE NOT REQUIRED WHERE METERS ARE LOCATED WITHIN 150FT FROM EACH OTHER IN SUBDIVISIONS WITH MULTIPLE RESIDENTIAL LOTS.

ISSUED:		STANDARD DETAIL WATER SERVICE TRACER WIRE (ALL SERVICES)		DETAIL NO.
8/06				SD-116
REVISED:				SHEET 7 OF 7
8/17				