



SECTION 15105

TRACER WIRE INSTALLATION FOR NON-ELECTRICALLY CONDUCTIVE PIPE

PART 1. GENERAL

A coated copper clad steel tracer wire of #12 gauge (or larger) (KUB item # 300362) shall be installed with all buried plastic mains and services. The tracer wire shall be laid within 6 inches of the plastic pipe where practical and directly above if possible. Tracer wire should not be wrapped around pipe or connectors except at the riser. **Never** wrap tracer wire around polyethylene pipe or fittings.

PART 2. PRODUCTS

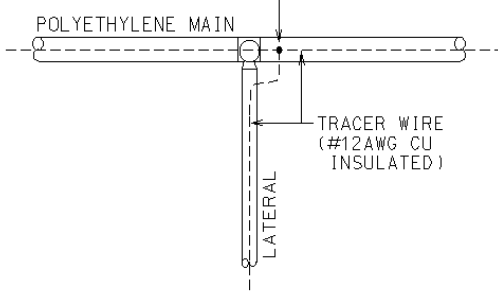
2.1 TRACER WIRE: Item # 300362; #12 AWG copper clad steel insulated wire.

PART 3. EXECUTION (See Figures 1-15105-a, 2-15105-b, 3-15105-c, and 4-15105-d)

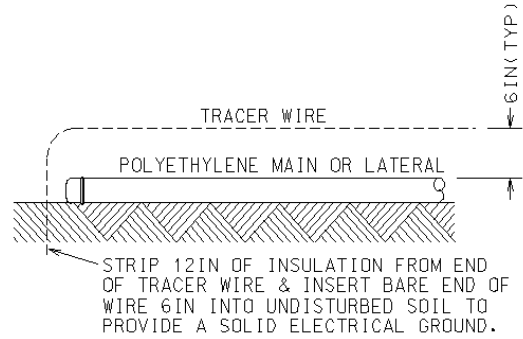
The contractor shall install a #12 (or larger) insulated tracer wire, in the trench above the polyethylene pipe. The tracer wire shall be approximately 6 inches above the pipe where practical. The tracer wire shall be installed so that electrical continuity is maintained throughout the pipe system. As few connections as possible shall be made in the tracer wire. Connections will be made by stripping the insulation back one inch and joining the two ends using an approved mechanical connector (KUB item # 362134) and a split bolt connector. **(Twisting of copper wire will not be acceptable.)** To complete this connection, wrap all exposed wire thoroughly with electrical tape. A minimum 5 foot of additional tracer wire will be coiled, buried and terminate at the ends of the gas pipeline. Of the 5 foot tracer wire section at the ends of the pipeline, one foot of insulation will be stripped back, prior to burial.

INSTALLATION OF TRACER WIRE
AT LATERAL
(TOP VIEW)

STRIP 1IN OF INSULATION FROM MAIN WIRE & FROM END OF LATERAL WIRE TO INSTALL SPLIT-BOLT "KEARNEY" OR KUB-APPROVED CONNECTOR. THOROUGHLY WRAP CONNECTOR & BARE WIRE WITH ELECTRICAL TAPE.



INSTALLATION OF TRACER WIRE
AT END OF LINE
(SIDE VIEW)

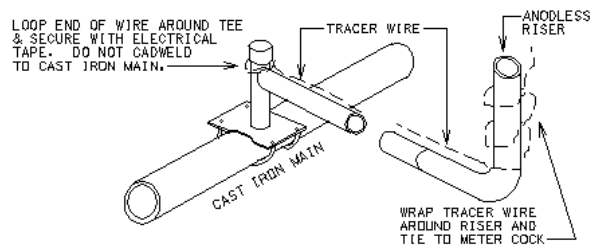


Notes:

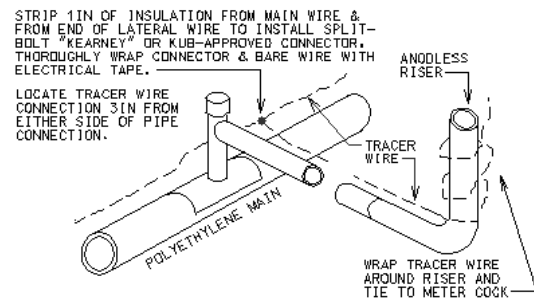
- I. Locate tracer wire connection 3" from either side of pipe connection.

Figure 1-15105-a (Tracer Wire Installation at Laterals and at Line Deadends)

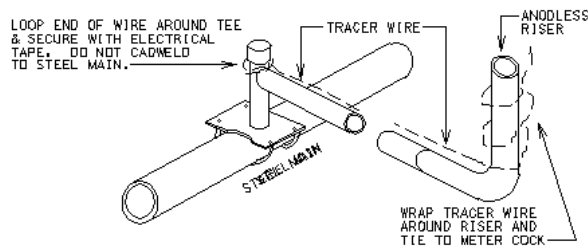
POLYETHYLENE SERVICE OFF CAST IRON MAIN



POLYETHYLENE SERVICE OFF POLYETHYLENE MAIN



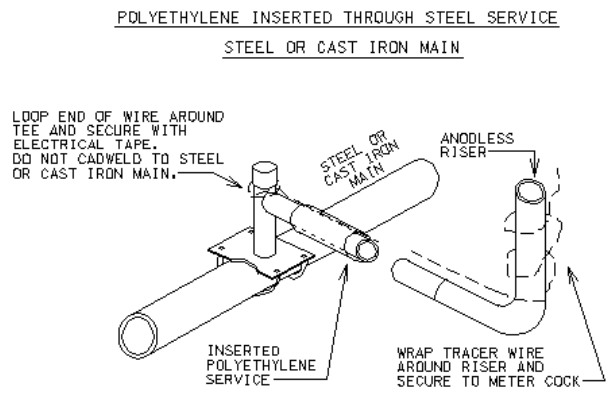
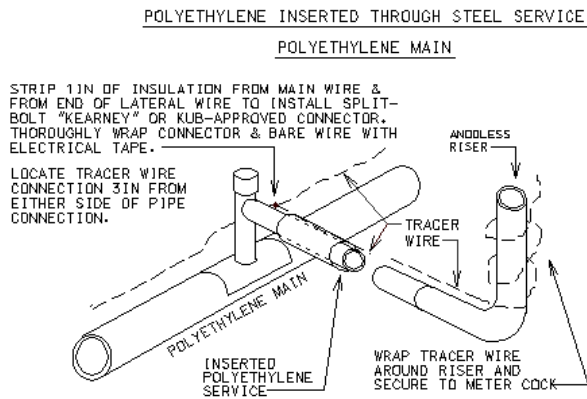
POLYETHYLENE SERVICE OFF STEEL MAIN



Notes:

- I. All tracer wire to be brought above ground at riser using tracer wire clamp specified in Section 15345.
- II. Tracer wire to be laid 6" directly above plastic pipe.

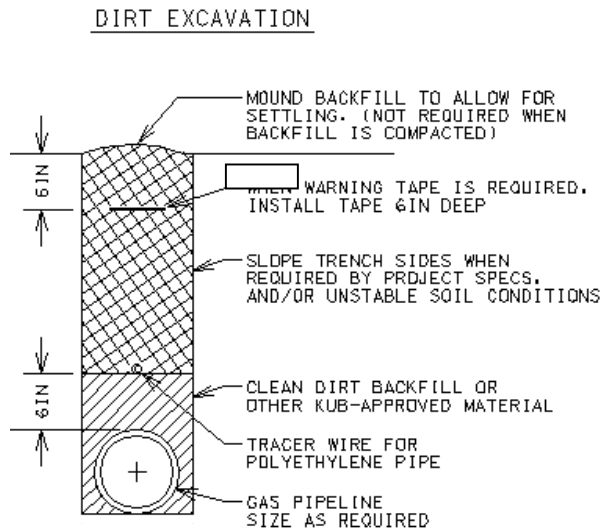
Figure 2-15105-b (Tracer Wire Installation Gas Polyethylene Pipe Services)



Notes:

- I. If inserting polyethylene in steel casing too small to include tracer wire, tracer wire shall be cadweld to both ends of steel casing 1 inch diameter or larger. Tracer wire shall be connected to steel casing smaller than 1 inch diameter using a grounding clamp.
- II. All tracer wire to be brought above ground at riser using tracer wire clamp specified in Section 15345.

Figure 3-15105-c (Tracer Wire Installation Inserted Polyethylene Services)



Notes:

- I. Trench to be backfilled and compacted in accordance with local governing body and/or project specifications.
- II. Warning tape shall be installed directly above the gas main or service, 6 inches below the finished grade.

Figure 4-15105-d (Standard Trench Dimensions - Mains)

END OF SECTION