



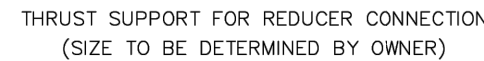
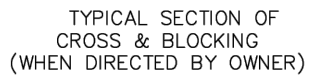
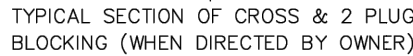
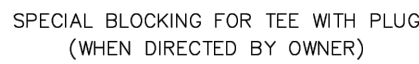
TRENCH WIDTH SCHEDULE

The diagrams illustrate two installation methods for a 2-wire loop antenna system:

- NORMAL INSTALLATION:**
 - Shows a cross-section of the antenna assembly with a 6" typical depth.
 - Labels include: CAST IRON COVER (7 1/4" wide), CAST IRON TOP SECTION, CAST IRON BOTTOM SECTION, and COMPACTED SOIL.
 - The antenna is shown in its normal position, with the 2-wire loop (typical) at the bottom.
- DEEP INSTALLATION:**
 - Shows a cross-section of the antenna assembly with a 16" depth.
 - Labels include: PROVIDE 12" LONG 2-WIRE PIGTAIL. JOIN ENDS WITH SCOTCHLOK CONNECTOR, GROUND OR FINISHED SURFACE (TYP.), CAST IRON COVER (9" wide), 1/2" HOLE, 1"-2" BELOW TOP. SEAL WITH SILICONE, CAST IRON TOP SECTION, CAST IRON EXTENSION PIECE MUELLER H-10375 5-1/4" SHAFT OR EQUAL, CAST IRON BOTTOM SECTION, and COMPACTED SOIL.
 - The antenna is shown in its deep position, with the 2-wire loop (typical) at the bottom.



SCALE: NONE



- NOTES ON THRUST BLOCKING:**
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED HAND DUG SOIL.
 2. WHERE SOIL CONDITIONS MAKE IT NECESSARY TO POUR CONCRETE BLOCKING OVER JOINTS, THE ENDS OF THE ADJACENT PIPES MUST HAVE A KICKER BLOCK TO RESIST MOVEMENT OF THESE JOINTS.
 3. WEIGHT CALCULATIONS TO BE BASED ON THRUST DUE TO TEST PRESSURE + 50% THRUST = $2AP \sin 1/2 \theta$
WHERE A = AREA OF PIPE IN SQUARE INCHES, P = WATER PRESSURE IN POUNDS PER SQUARE INCH.
 4. WHERE BLOCKING OVER PLUG, PLUG SHOULD BE COVERED WITH VINYL TO PREVENT BINDING OF CONCRETE.
 5. WHERE SKEAR BECOMES A PROBLEM, PROPER REINFORCING MUST BE INSTALLED INTO THE BLOCKING.
 6. CLEARANCE SHALL BE A MINIMUM OF 6" BETWEEN PIPE AND ANY OBSTRUCTION.
 7. WEIGHT OF CONCRETE BLOCKING TO BE EQUAL TO OR GREATER THAN WEIGHT CALCULATION DEFINED ABOVE.
 8. MINIMUM COVER SHALL BE 24" BELOW ROAD GRADE, OR GROUND. PIPE SHALL BE DEEPER WHEN APPROACHING VALVE LOCATIONS, UNDER OR OVER OBSTRUCTIONS, CLEARANCE SHALL BE A MINIMUM OF 6'.
 9. CLEARANCE ON PIPE BELONGING TO CITY & GAS COMPANIES SHALL BE 18" UNLESS OTHERWISE DIRECTED BY THE OWNER.
 10. ALL BOLT ASSEMBLIES & GLANDS SHALL HAVE PROTECTIVE WRAP SO WRAP WON'T INTERFERE WITH FUTURE MAINTENANCE. (SEE SPECS.)

2) SCALE: NONE

3) SCALE: NONE

4) ITF, ITIR
SCALE: NONE

