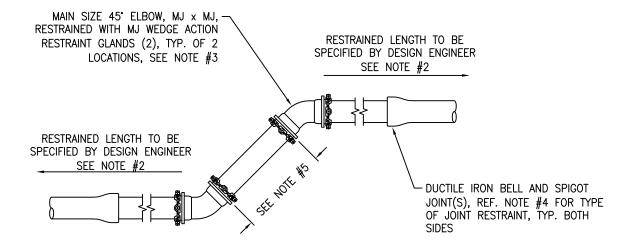
NOTES:

- 1. REFERENCE TMWA ENGINEERING & CONSTRUCTION STANDARDS SECTIONS 7, 8, AND/OR 8A FOR UTILITY SEPARATION REQUIREMENTS.
- 2. ALL RESTRAINED JOINT PIPING SHALL BE DUCTILE IRON PIPE (RJ—DIP). RESTRAINED LENGTHS OUTSIDE OUTERMOST ELBOWS SHALL BE CALCULATED BY THE DESIGN ENGINEER AND SPECIFIED ON THE WATER IMPROVEMENT PLANS.
- RESTRAINED JOINT FITTINGS SHALL BE MECHANICAL JOINT (MJ) DUCTILE IRON RESTRAINED WITH MECHANICAL JOINT WEDGE ACTION
 RESTRAINT GLANDS.
- 4. BELL AND SPIGOT PUSH-ON JOINTS SHALL BE RESTRAINED USING RUBBER GASKETS WITH STAINLESS STEEL LOCKING SEGMENTS VULCANIZED INTO THE RUBBER GASKET.
- 5. PIPING BETWEEN ELBOWS MUST ALSO BE RESTRAINED.
- 6. ALL BOLTS AND EXPOSED METAL SHALL BE COATED WITH BRUSHED-ON MASTIC.
- 7. FITTINGS, DUCTILE IRON PIPE, AND OTHER METAL PARTS SHALL BE ENCASED WITH POLYETHYLENE WRAP PER AWWA C105.





DATE

7/2001

REV 7/2011 APPENDIX 10I VERTICAL ELBOW INSTALLATION

RESTRAINED JOINT SINGLE OFFSET FOR MAINS 6" TO 12" DRAWING NUMBER

10I-4