

## MATERIAL SPECIFICATION

### **553. DUCTILE-IRON PIPE**

#### 1. SCOPE

This specification covers the quality of ductile-iron pipe and fittings.

#### 2. PIPE

Ductile-Iron Pipe shall conform to the requirements of ANSI/AWWA C151/A21.51, Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds for Water or Other Liquids and ANSI/AWWA C115/A21.15, Flanged Ductile-Iron Pipe with Threaded Flanges.

#### 3. FITTINGS

Ductile-Iron Pipe Fittings shall conform to the requirements of ANSI/AWWA C110/A21.10, Ductile-Iron and Gray-Iron Fittings, 3-inch through 48-inch, for Water and Other Liquids. Also, ANSI/AWWA C153/A21.53, Ductile-Iron Compact Fittings, 3-inch through 12-inch, for Water and Other Liquids.

#### 4. JOINTS

Rubber-gasket joints for ductile-iron pipe and fittings where either mechanical or push-on joints are used shall conform to the requirements of ANSI/AWWA C111/A21.11, Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings.

#### 5. LINING

Interior lining for Ductile-Iron Pipe and Fittings shall conform to the requirements of ANSI/AWWA C104/A21.4, Cement Mortar Lining for Ductile-Iron Pipe and Fittings for Water.

#### 6. ENCASEMENT

Encasement for ductile-iron pipe and fittings shall conform to the requirements of ANSI/AWWA C105/A21.5-88, Polyethylene Encasement for Ductile-Iron Pipe for Water and Other Liquids.