

## SECTION 1401

### DUCTILE IRON PIPE

#### 1401.0100 GENERAL

**1401.0101 Description of Work.** The work under this Section shall consist of furnishing ductile iron pipe and fittings. All materials must comply with the Approved Materials List attached hereto as Appendix A. Installation of ductile iron pipe shall be in accordance with the details shown on the plans and the requirements of these specifications.

**1401.0104 Delivery, Storage, and Handling.** Ductile iron pipe shall be delivered to the site, stored, and handled in accordance with the manufacturer's instructions except as modified by the plans, special specifications, or as directed by the Engineer.

During shipment and storage, the pipe ends shall be securely covered. Pipe delivered to a project without the ends covered will be rejected and removed from the site. Cleaning of contaminated pipe is not allowed.

#### 1401.0200 PRODUCTS

##### 1401.0201 Materials.

**(A) Ductile Iron Pipe.** Ductile iron pipe shall comply with the most recent revision of the standards shown in Appendix B.

**(B) Pressure Class.** Ductile iron pipe shall be Class 350 for diameters up to 12 inches. The pressure class of ductile iron pipe greater than 12 inches in diameter shall be Class 250 or as specified on the plans or in the special specifications.

**(C) Cement Mortar Lining.** Ductile iron pipe for potable water installations shall be supplied with a shop-applied cement-mortar interior lining of standard thickness in accordance with ANSI A21.4/AWWA C104. Ductile iron pipe for reclaimed water installations shall have a double thickness cement-mortar interior lining in accordance with the noted ANSI/AWWA Standard. Any delamination of the cement-mortar lining will not be accepted.

#### 1401.0300 EXECUTION

**1401.0301 General.** Ductile iron pipe shall be furnished with either bell-and-spigot, mechanical, or flanged joints as specified on the plans, in the special specifications, or as directed by the Engineer. Restrained joints shall be in accordance with Section 1406. Blind flanges shall be cast iron or ductile iron. Steel flanges will not be permitted.

## SECTION 1401

### 1401.0302 Installation.

**(A) General.** Installation of ductile iron pipe, including polyethylene encasement, shall conform with the applicable requirements of AWWA C600, AWWA C105, AWWA M41, and Section 0209.

**(B) Workmanship.** All the Contractor's or subcontractor's personnel shall be skilled and knowledgeable regarding installation procedures for the pipe, fittings, and appurtenances being installed.