Section 841—Iron Pipe

841.1 General Description
This section includes the requirements for iron pipe, including cast iron soil pipe and fittings, and ductile iron pipe and appurtenances.

841.1.01 Related References
A. Standard Specifications
   Section 106—Control of Materials
   Section 848—Pipe Appurtenances

B. Referenced Documents
   ASTM A 74
   ASTM B 29
   ASTM C 564
   ANSI/AWWA A 21.4
   ANSI/AWWA A 21.10
   ANSI/AWWA A 21.11
   ANSI/AWWA A 21.50
   ANSI/AWWA A 21.51

841.2 Materials
For each item in this Section, submit a certification from the manufacturer as per the requirements in Subsection 106.05, “Materials Certification.”

Include the chemical and physical properties of the materials and their conformance with this Specification on the certification.

841.2.01 Cast Iron Soil Pipe and Fittings
A. Requirements
   1. Type
      Use cast iron soil pipe and fittings that meet the requirements of ASTM A 74, including the inside and outside coatings.
      Rubber Gasket Joints: Use rubber gasket joints for cast iron soil pipes that meet the requirements of ASTM C 564.
      Lead Joints: Use refined lead that meets the requirements of ASTM B 29. Do not use reclaimed lead.
      Plain End Cast Iron Soil Pipe: Plain end cast iron soil pipe may be joined with steel bolted couplings if they meet the requirements of Subsection 848.2.02.

B. Fabrication
   General Provisions 101 through 150.

C. Acceptance
   The Department accepts material that is properly certified by the manufacturer.
D. Materials Warranty

General Provisions 101 through 150.

841.2.02 Ductile Iron Pipe and Appurtenances

A. Requirements

Use ductile iron pipe that meets the requirements of ANSI/AWWA A 21.50 and A 21.51 for the class and joint specified.

1. Fittings

   Use fittings that meet the requirements of ANSI/AWWA A 21.10 for the class and joint specified.

2. Rubber Gasket Joints

   Use rubber gasket joints that meet the requirements of ANSI/AWWA A 21.11.

3. Flanges

   Use flanges that meet the requirements of ANSI/AWWA A 21.11.

4. Plain End Ductile Iron Pipe

   Plain end ductile iron pipe may be joined with steel-bolted couplings if they meet the requirements of Subsection 848.2.02.

5. Cement Mortar Linings

   Use cement mortar linings that meet the requirements of ANSI/AWWA A 21.4. Line all ductile iron pipe and fittings with cement mortar unless specified otherwise.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

The Department accepts material that is properly certified by the manufacturer.

D. Materials Warranty

General Provisions 101 through 150.