

SECTION 02611 - CAST IRON SOIL PIPE

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes providing cast iron soil pipe and all appurtenant work.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

1. Section 02140 Dewatering
2. Section 02200 Earthwork
3. Section 02600 Pipeline Construction
4. Section 09800 Protective Coating
5. Section 15000 Piping Components
6. Section 15020 Pipe Supports

1.3 STANDARD SPECIFICATIONS

- A. Except as otherwise indicated in this Section of the Specifications, the CONTRACTOR shall comply with the Standard Specifications for Public Works Construction (SSPWC), as specified in Section 01090 - REFERENCE STANDARDS.

1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

1. ASTM A 74 Specification for Cast Iron Soil Pipe and Fittings
2. ASTM C 564 Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

1. Dimensional drawings of all pipe fittings and appurtenances.

1.6 OWNER'S MANUAL

- A. The following shall be submitted in compliance with Section 01300:

1. A Certificate of Compliance for all pipe and other products or materials furnished under this Section.

1.7 FACTORY INSPECTION AND TESTS

- A. The CONTRACTOR shall be responsible for all costs associated with inspection and testing of materials, products, or equipment at the place of manufacture. This shall include costs for travel, meals, lodging, and car rental for [two] OWNER-designated inspectors for [] days required to complete such inspections or observations exclusive of travel days, if the place of manufacture, fabrication and factory testing is more than fifty (50) miles outside the geographical limit of the City. The CONTRACTOR shall not be responsible for salary or salary-related costs of the inspectors. The CONTRACTOR shall comply with the requirements of Section 01400.
- B. **Inspection:** During the manufacture of the pipe, the CONSTRUCTION MANAGER shall have the option to inspect the pipe at the place of manufacture. It shall be given access to all areas where manufacturing is in progress and shall be permitted to make all inspections necessary to confirm compliance with the Specifications.
- C. **Tests:** Except as modified herein, all materials used in the manufacture of the pipe shall be tested in accordance with the requirements of the referenced standards as applicable.
- D. The CONTRACTOR shall perform said material tests at no additional cost to the OWNER. The CONSTRUCTION MANAGER will witness all testing conducted by the CONTRACTOR; provided, that the CONTRACTOR'S schedule is not delayed for the convenience of the CONSTRUCTION MANAGER.
- E. All pipe shall be subject to inspection at the factory. The CONTRACTOR shall notify the CONSTRUCTION MANAGER in writing of the manufacturing start date and place not less than 14 days prior to the start of manufacture.
- F. In addition to those tests specifically required, the CONSTRUCTION MANAGER may request additional samples of any material including couplings and joint samples for testing by the OWNER. The additional samples shall be furnished at no additional cost to the OWNER.

1.8 MARKING, HANDLING, AND STORAGE

- A. **Markings:** All pipes shall be factory marked indicating size and class.
- B. **Handling and Storage:** The pipe shall be handled by devices designed and constructed to prevent damage to the pipe coating or exterior. The use of equipment which might injure the pipe coating or exterior will not be permitted. Stockpiled pipe shall be suitably supported and shall be secured to prevent accidental rolling.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. **Pipe:** Cast iron soil pipe shall be in accordance with SSPWC, Subsection 207-9-3 and ASTM A 74 and the requirements contained herein. The pipe shall be service weight, of the diameter indicated.

2.2 PIPE JOINTS

- A. Cast iron soil pipe shall have push on bell and spigot joints with rubber gaskets [or caulked lead bell and spigot joints], or hubless joints with Type 304 or 316 stainless steel couplings over suitable rubber gaskets in accordance with ASTM C 564.

2.3 MATERIALS

- A. **Cast Iron Soil Pipe:** Pipe materials shall conform to the requirements of ASTM A 74.
- B. **Elastomer Sleeves:** The material for the elastomer sleeves shall conform to the requirements of ASTM C 564.

2.4 SPECIALS AND FITTINGS

- A. Fittings shall conform to ASTM A 74 and shall be of the diameter indicated, of service weight, with bell and spigot ends, or with plain ends for no-hub joints.

2.5 PROTECTIVE COATING

- A. Exterior coating of the cast iron soil pipe shall be in compliance with Section 09800.

2.6 MANUFACTURERS

- A. Products indicated shall be manufactured by one of the following (or equal):
 - 1. American Brass and Iron Co.
 - 2. Tyler Pipe Industries

PART 3 -- EXECUTION

3.1 INSTALLATION OF PIPE

- A. Cast iron soil pipe shall be installed in accordance with the applicable provisions of SSPWC and the recommendations of the manufacturer.

** END OF SECTION **