

# SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS

## SPECIFICATIONS DUCTILE-IRON PIPE REVISED March 2004

### 1. SCOPE

This specification covers 3" through 64" ductile-iron pipe, centrifugally cast, for water or other liquids, with push-on or mechanical joints. All pipe furnished shall be in conformance with ANSI/AWWA Standard C151/A21.51.91, or latest revision thereof.

### 2. GENERAL REQUIREMENTS

- a. All pipe shall conform to the following pressure classes, based upon Type 3 bedding conditions, a depth of bury of 6 feet, and a working pressure of 150 pounds per square inch:

3" through 12"	350 psi
16" and 20"	250 psi
24"	200 psi
30" through 64"	150 psi

- b. Dimensions and tolerances for each nominal pipe size shall be in accordance with Table 51.5 (push-on) or Table 51.5 (mechanical joint) of AWWA Standard C151 for pipe with a nominal laying length of 20 feet.
- c. All pipes shall have an interior cement mortar lining applied in accordance with ANSI/AWWA C104/A21.4, latest revision. No asphaltic coating will be required on the interior cement mortar lining.
- d. Exterior coating shall consist of a nominal one-mil thick asphaltic material applied to the outside of the pipe as described in Section 51.8 of AWWA C151.
- e. All rubber joint gaskets utilized on ductile-iron pipe shall be conformance with ANSI/AWWA C111/A21.11 Standard, latest revision.

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- f. Each length of pipe furnished shall bear identification markings in conformance with Sec. 51.10 of AWWA Standard C151.
  - g. The manufacturer shall take adequate measures during pipe production to assure compliance with AWWA C151 by performing quality-control tests and maintaining results of those tests as outlined in Sec 51.14 of that Standard.
3. The San Antonio Water System may, at no cost to the manufacturer, subject random lengths of pipe for testing by an independent laboratory for compliance with this specification. Any visible defects or failure to meet the quality standards herein will be grounds for rejecting the entire order.
4. The attached manufacturers product list identifies approved products.

**APPROVED MANUFACTURER LIST**

American  
Griffin  
U.S. Pipe Company  
Clow Water Systems Company  
Atlantic States Cast Iron Pipe Company  
Pacific States Cast Iron Pipe Company  
McWane Cast Iron Pipe Company

**Previous Specification**  
September 1999