

**ROGERS WATER UTILITIES
ROGERS, ARKANSAS**

**SPECIFICATIONS FOR STEEL CASINGS
DECEMBER 2004**

1. **SCOPE**

This product specification covers steel casings required under streets, highways, railroads and other structures of which water or sanitary sewer pipe (carrier) are installed with casing spacers. Steel casing pipe shall be supplied in nominal sizes of 16 in., 18 in., 20 in., 24 in., 30 in., 36 in. and 48 in.

2. **GENERAL STEEL CASING REQUIREMENTS**

- a. Steel casing pipe shall have a minimum yield strength of 35,000 psi and conform to ASTM A139 for Grade B or ASTM A252. All casing pipe shall be new (used casing pipe is not allowed).
- b. Steel pipe for casing installation shall be shop fabricated in sections at least 18 feet in length (except last section, if a shorter section is required to obtain total casing length) for transportation from the shop to the project site. Sections shall be combined by field welding to provide a single casing assembly to the required length as specified in the plans.
- c. All welding procedures used to fabricate steel casings shall be performed under the provisions of ANSI/AWS D1.1. Welding procedures shall be required for, but not limited to, longitudinal and special welds for pipe cylinders, reinforcing plates and casing joint welds.
- d. The casing pipe diameter with minimum wall thickness are as follows:

<u>Pipe Diameter</u>	<u>Minimum Wall Thickness</u>
16"	0.250"
18"	0.250"
20"	0.375"
24"	0.375"
30"	0.500"
36"	0.500"
48"	0.625"

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3. **QUALITY ASSURANCE**

- a. The Rogers Water Utilities may, at no cost to the manufacturer, subject random steel casings to testing by an independent laboratory for compliance with these standards. Any visible defect or failure to meet the quality standards herein will be grounds for rejecting.
- b. The pipe supplier/manufacturer shall furnish a certified affidavit of compliance for all casing pipe (including physical and chemical properties of all casing pipe) to the design engineer and the Rogers Water Utilities for review and approval.
- c. All steel casings shall be domestically manufactured.