

# EXPECTED IMPLEMENTATION JULY 2012

## 556 JACK AND BORE. (REV 10-31-11) (FA 1-27-12) (7-12)

ARTICLE 556-2. (Page 702) Table 556-2.2 is deleted and the following substituted:

Table 556-2.2 Material Standards Acceptable for J&B and MT Installations		
Material Type	Non-Pressure	Pressure
Ductile Iron (DI)	AWWA C150/C151 ASTM A 716	AWWA C150/C151
Fiberglass Reinforced Polymer Mortar (FRPM)	ASTM D 3262	ASTM D 3517 AWWA C950
Polymer Concrete (PC)	DIN 54815-1 & 2	N/A
Prestressed Concrete Cylinder Pipe (PCCP)	N/A	AWWA C301
Reinforced Concrete Cylinder Pipe (RCCP)	N/A	ASTM C 361
Reinforced Concrete Pipe (RCP)	ASTM C 76	ASTM C 361 AWWA C300/C302
Steel	ASTM A 139 Grade B <sup>(1)</sup> API 2B <sup>(2)</sup>	AWWA C200 API 2B <sup>(2)</sup>
Polyvinyl Chloride (PVC)	ASTM D 1785	ASTM D 1785
Acrylonitrile Butadiene Styrene (ABS)	ASTM D 1527	ASTM D 1527
Reinforced Thermosetting Resin Pipe (RTRP)	ASTM D 2296 or ASTM D 2997	ASTM D 2996 or ASTM D 2997

<sup>(1)</sup> No hydrostatic test required  
<sup>(2)</sup> Dimensional tolerances only

SUBARTICLE 556-2.1 (Pages 702 and 703) is deleted and the following substituted:

**556-2.1 Steel Pipe Casing and Welds:** In addition to meeting or exceeding the conditions contained in Table 556-2.1 and Table 556-2.2, meet the following requirements:

(a) The size of the steel casing must be at least 6 inches larger than the largest outside diameter of the carrier. Casing size must accommodate pressure pipe or carrier pipe joint restraints.

(b) The casing pipe must be straight seam pipe, spiral seam pipe, or seamless pipe.

(c) All steel pipe may be bare inside and out, with the manufacturer's recommended minimum nominal wall thicknesses to meet the greater of either installation, loading or carrier requirements.

(d) All steel casing pipe must be square cut and have dead-even lengths which are compatible with the J&B equipment.

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Use steel pipe casings and welds meeting or exceeding the thickness requirements to achieve the service life requirements noted in the Department Drainage Manual Chapter 6. For purposes of determining service life, ensure that casings installed under roadways meet or exceed cross drain requirements and casings under driveways meet or exceed side drain pipe requirements. For purposes of material classification, consider steel pipe casing structural plate steel pipe. Ensure that steel pipe casing of insufficient length achieves the required length through fully welded joints. Ensure that joints are air-tight and continuous over the entire circumference of the pipe with a bead equal to or exceeding the minimum of either that required to meet the thickness criteria of the pipe wall for jacking and loading or service life. A qualified welder must perform all welding.

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