

ANSI/AWWA C600-17 (Revision of ANSI/AWWA C600-10)

**AWWA Standard** 

# Installation of Ductile-Iron Mains and Their Appurtenances

Effective date: July 1, 2017. First edition approved by AWWA Board of Directors May 8, 1977. This edition approved Jan. 14, 2017. Approved by American National Standards Institute Feb. 14, 2017.





#### **AWWA Standard**

This document is an American Water Works Association (AWWA) standard. It is not a specification. AWWA standards describe minimum requirements and do not contain all of the engineering and administrative information normally contained in specifications. The AWWA standards usually contain options that must be evaluated by the user of the standard. Until each optional feature is specified by the user, the product or service is not fully defined. AWWA publication of a standard does not constitute endorsement of any product or product type, nor does AWWA test, certify, or approve any product. The use of AWWA standards is entirely voluntary. This standard does not supersede or take precedence over or displace any applicable law, regulation, or code of any governmental authority. AWWA standards are intended to represent a consensus of the water industry that the product described will provide satisfactory service. When AWWA revises or withdraws this standard, an official notice of action will be placed on the first page of the Official Notice section of *Journal – American Water Works Association*. The action becomes effective on the first day of the month following the month of *Journal – American Water Works Association* publication of the official notice.

#### **American National Standard**

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. An American National Standard is intended as a guide to aid the manufacturer, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone, whether that person has approved the standard or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standard. American National Standards are subject to periodic review, and users are cautioned to obtain the latest editions. Producers of goods made in conformity with an American National Standard are encouraged to state on their own responsibility in advertising and promotional materials or on tags or labels that the goods are produced in conformity with particular American National Standards.

CAUTION NOTICE: The American National Standards Institute (ANSI) approval date on the front cover of this standard indicates completion of the ANSI approval process. This American National Standard may be revised or withdrawn at any time. ANSI procedures require that action be taken to reaffirm, revise, or withdraw this standard no later than five years from the date of publication. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute, 25 West 43rd Street, Fourth Floor, New York, NY 10036; 212.642.4900; or emailing info@ansi.org.



This AWWA content is the product of thousands of hours of work by your fellow water professionals. Revenue from the sales of this AWWA material supports ongoing product development. Unauthorized distribution, either electronic or photocopied, is illegal and hinders AWWA's mission to support the water community.

ISBN-13, print: 978-1-62576-227-6

elSBN-13, electronic: 978-1-61300-424-1 DOI: http://dx.doi.org/10.12999/AWWA.C600.17

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information or retrieval system, except in the form of brief excerpts or quotations for review purposes, without the written permission of the publisher.

> Copyright © 2017 by American Water Works Association Printed in USA

# **Committee Personnel**

The AWWA A21 Subcommittee on the Installation of Ductile-Iron Pipe, which reviewed and approved this standard, had the following personnel at the time of approval:

# J. Hal Eddings, Chair

### General Interest Members

S.M. Passarelli,* Standards Engineer Liaison, AWWA, Denver, Colo.	(AWWA)
J.R. Plattsmier, HDR Engineering Inc., Denver, Colo.	(AWWA)
P.A. Selig, Consultant, Birmingham, Ala.	(AWWA)
J.M. Vellano, Vellano Brothers Inc., Latham, N.Y.	(AWWA)

#### Producer Members

L.R. Dunn, U.S. Pipe & Foundry Company, Birmingham, Ala.	(AWWA)
J.H. Eddings, McWane Ductile, Phillipsburg, N.J.	(AWWA)
J.A. Fancher II, <sup>†</sup> American Cast Iron Pipe Company, Birmingham, Ala.	(AWWA)
M.D. Gaston, American Cast Iron Pipe Company, Birmingham, Ala.	(AWWA)
L.G. Horn, Ductile Iron Pipe Research Association, Birmingham, Ala.	(DIPRA)
H. Kennedy Jr., Harold Kennedy & Associates, Fuquay Varina, N.C.	(AWWA)

## User Members

D.T. Bradley, Oak Lodge Water District, Portland, Ore.	(AWWA)
J.L. Doane, Tualatin Valley Water District, Beaverton, Ore.	(AWWA)
R.Y. Matsui, Honolulu, Hawaii	(AWWA)
D.D. Montgomery, Independence Water Department, Independence, Mo.	(AWWA)
C.J. Patla, Connecticut Water Service Inc., Clinton, Conn.	(AWWA)
T.J. Roode, Denver Water, Denver, Colo.	(AWWA)
R.L. Worden, COMCD, Norman, Okla.	(AWWA)

†Alternate

<sup>\*</sup> Liaison, nonvoting

The AWWA Standards Committee on Ductile-Iron Pipe and Fittings, which reviewed and approved this standard, had the following personnel at the time of approval:

# John R. Plattsmier, Chair

#### General Interest Members

J. Hebenstreit, Underwriters Laboratories Inc., Northbrook, Ill.	(AWWA)
M.B. Horsley, Horsley Engineering LLC, Overland Park, Kan.	(AWWA)
D.H. Kroon, Corrpro Companies Inc., Houston, Texas	(AWWA)
D.D. Lary,* Wright-Pierce, Topsham, Maine	(NEWWA)
P.J. Mourt, Mott MacDonald, Philadelphia, Pa.	(AWWA)
S.M. Passarelli, <sup>†</sup> Standards Engineer Liaison, AWWA, Denver, Colo.	(AWWA)
J.R. Plattsmier, HDR Engineering Inc., Denver, Colo.	(AWWA)
S. Pool,* HDR Engineering Inc., Denver, Colo.	(AWWA)
T.M. Stinson, Kleinfelder, Cambridge, Mass.	(NEWWA)
L.C. Yates, McGoodwin, Williams & Yates, Fayetteville, Ark.	(AWWA)

#### Producer Members

L.R. Dunn, U.S. Pipe & Foundry Company, Birmingham, Ala.	(AWWA)
J.H. Eddings, McWane Ductile, Phillipsburg, N.J.	(AWWA)
J.A. Fancher II,* American Cast Iron Pipe Company, Birmingham, Ala.	(AWWA)
M.D. Gaston, American Cast Iron Pipe Company, Birmingham, Ala.	(AWWA)
L.G. Horn, Ductile Iron Pipe Research Association, Birmingham, Ala.	(DIPRA)
M. Horton,* U.S. Pipe & Foundry Company, Birmingham, Ala.	(AWWA)
J.C. Jones, S&B Technical Products, Fort Worth, Texas	(AWWA)
H. Kennedy Jr., Harold Kennedy & Associates, Fuquay Varina, N.C.	(AWWA)
T.J. Muntz, National Association of Pipe Fabricators, Stillwater, Minn.	(AWWA)
M.D. Wooten, Griffin Pipe Products Company, Downers Grove, Ill.	(AWWA)

# User Members

D.T. Bradley, Oak Lodge Water District, Portland, Ore.	(AWWA)
M.J. Britch, Tualatin Valley Water District, Portland, Ore.	(AWWA)
A.J. DeBoy,* Indiana American Water, Greenwood, Ind.	(AWWA)

<sup>\*</sup> Alternate

<sup>†</sup>Liaison, nonvoting

W.C. Duke, Bureau of Reclamation, Denver, Colo.	(AWWA)
M.W. Griffin, American Water Company, Saint Louis, Mo.	(AWWA)
J.M. Kennedy, Tampa Bay Water, Clearwater, Fla.	(AWWA)
D.D. Montgomery, Independence Water Department, Independence, Mo.	(AWWA)
K.C Morgan,* Standards Council Liaison, City of Phoenix Water Services,	
Phoenix, Ariz.	(AWWA)
G.M. Page, Cobb County–Marietta Water Authority, Marietta, Ga.	(AWWA)
C.J. Patla, Connecticut Water Service Inc., Clinton, Conn.	(AWWA)
T.J. Roode, Denver Water, Denver, Colo.	(AWWA)
A. Shively, City of Kansas City, Kansas City, Mo.	(AWWA)
R.L. Worden, COMCD, Norman, Okla.	(AWWA)

<sup>\*</sup> Liaison, nonvoting

This page intentionally blank.