

A QUARTERLY MAGAZINE FROM MCWANE DUCTILE

IRON STRONG INSIGHTS[®]

FALL 2024



**McWANE
DUCTILE**

BUILDING IRON STRONG UTILITIES FOR GENERATIONS[®]

Who Are Circuit Riders, and How Can They Assist Your Small Water Utility?

PG. 4

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**McWANE
DUCTILE**

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IRON STRONG INSIGHTS[®]

McWane Ductile has been an industry leader in the manufacture of water distribution and infrastructure products since 1921. With three U.S. foundries, McWane Ductile offers superior service while supplying Ductile iron pipe across North America and beyond, all while maintaining an unwavering commitment to safety and quality. Through continued innovation, it is our goal to meet the customer needs and industry demands of the future in order to Build Iron Strong Utilities for Generations.

PG. 4

Who Are Circuit Riders, and How Can They Assist Your Small Water Utility?

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Welcome to Iron Strong Insights®

Dear Readers,

As we transition into fall, we are reminded of the beauty and change that this season brings. The changing colors of the leaves, the cooler temperatures and shorter days serve as a gentle reminder of the cycles of renewal and growth. In our line of work, where water and wastewater professionals like yourselves ensure vital infrastructure continues to thrive, this sense of transition mirrors the progress we continually strive for.

This year, we have faced significant challenges, not the least of which include the recent devastating hurricanes that have impacted many of our communities in the U.S. and beyond. We want to take a moment to extend our deepest concerns and best wishes to all those affected. We hope for a safe and speedy recovery for everyone as these areas rebuild and recover. The resilience of these communities inspires us all, and we stand ready to support them in any way we can.

At our company, we are committed to being a reliable partner in helping communities rebuild and improve. By investing significantly in capital improvement initiatives in recent years, we are prepared to meet growing demand and ensure we can fulfill the tight deadlines for Ductile iron pipeline projects. These investments enable us to increase our production capabilities,

maintain the high quality you expect, and ensure timely delivery of the materials needed to keep water and wastewater projects on track.

Our commitment to infrastructure projects has taken us coast to coast this year, where our sales staff and engineers have been involved in various learning and development initiatives. From hands-on job site training to Lunch & Learn sessions and even our Day of Water events, we have worked hard to empower and educate the professionals who rely on our products.

Alongside our dedication to educating the industry, we have been focused on the continuous development of our internal teams. We continued the training for our newest sales representatives, ensuring they are equipped with advanced product knowledge. This in-depth training helps them to better serve you, our customers, so they can confidently address even the toughest questions and provide expert recommendations. Whether you are working on a challenging pipeline installation or navigating specific technical requirements, our team is here to offer the support you need to succeed.

Speaking of customer service, we are also focused on continuously improving how we engage and support you. In the

coming weeks, some of our readers may receive an email invitation to participate in our annual customer satisfaction survey. We encourage your participation and appreciate your feedback, as it helps us better understand your needs and identify areas where we can enhance our services. Your input is invaluable, and we are thankful for your time.

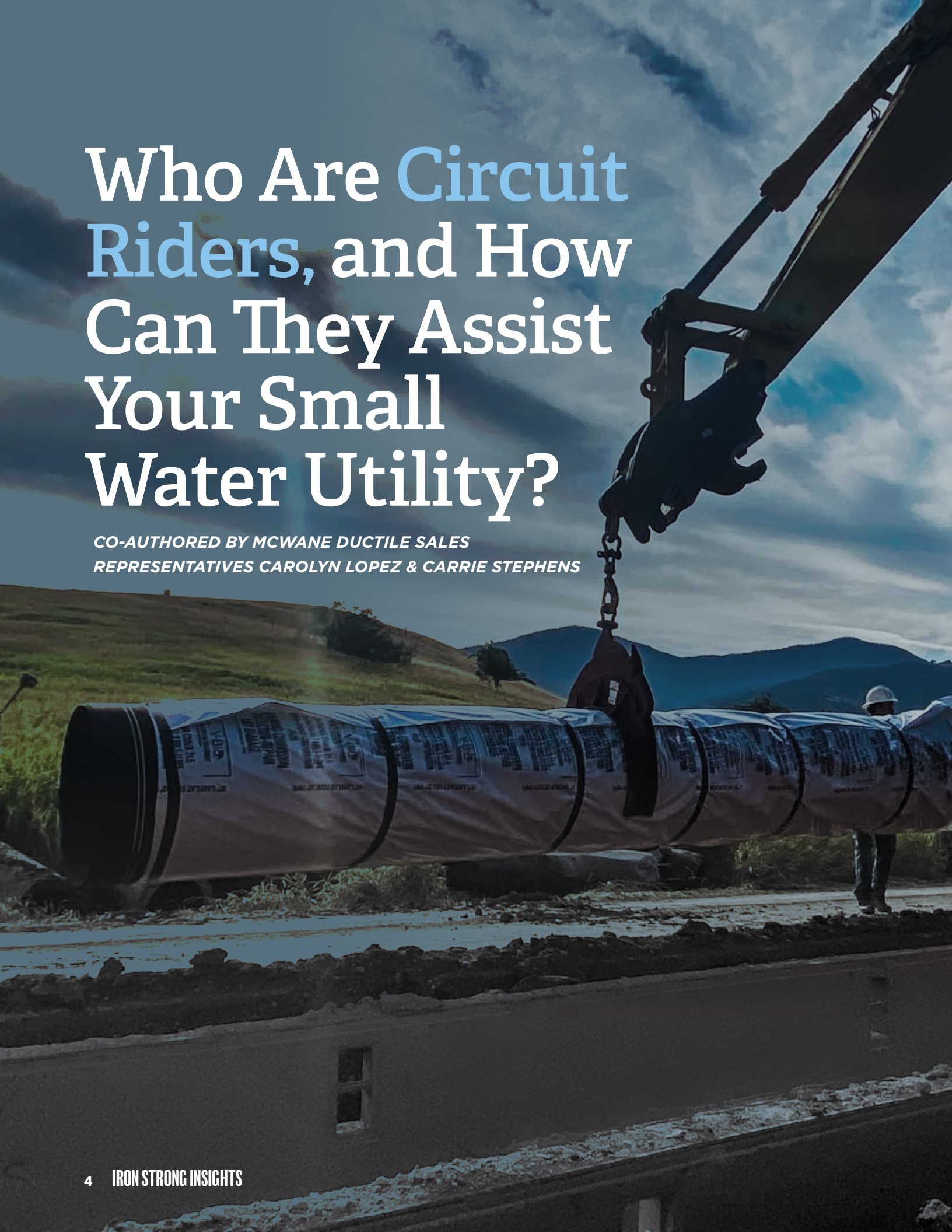
If you have not had the opportunity to explore our Learning Center on our website recently, now is the perfect time! As of this quarter, we have added 17 new blogs this year, covering a wide range of topics that we know are important to you and your teams. From water industry issues to best practices for installation, these articles are designed to provide practical insights that you can use in your day-to-day work. Many of these blogs also feature instructional videos and helpful tip sheets, offering you even more resources to stay informed and efficient on the job. And with more content planned for release before the year ends, there is always something new to learn.

As we look ahead to the final months of 2024, we remain committed to being a strong partner in your projects, whether through delivering quality materials or sharing the expertise that helps bring those projects to life. Enjoy the fall season and the upcoming holidays, and we look forward to connecting with you in the months ahead!

Warm regards,



Stuart Liddell
Sales Operations Manager
Sales Operations Department

A large pipe is being lifted by an excavator at a construction site. The pipe is wrapped in a protective material and is being hoisted by a chain. A worker in a hard hat is visible in the background. The scene is set against a backdrop of rolling hills and a cloudy sky.

Who Are Circuit Riders, and How Can They Assist Your Small Water Utility?

*CO-AUTHORED BY MCWANE DUCTILE SALES
REPRESENTATIVES CAROLYN LOPEZ & CARRIE STEPHENS*

Dedicated professionals in cities and water utilities across the United States work hard every day to consistently provide clean, safe drinking water to their communities. In the best of situations, it can be challenging to keep up with the demands of daily operations, maintenance, administrative duties, and compliance with various regulations and emergencies. It can be even more daunting for smaller, rural water systems with minimal staff and resources. Where to turn? Who can help? This article will provide answers to those questions.

HOW DID THE CIRCUIT RIDER PROGRAM ORIGINATE AND EVOLVE?

In 1980, the Circuit Rider Program was established in a collaboration between the U.S. Department of Agriculture Farmers Home Administration and the National Rural Water Association. The program provides skilled nationwide water professionals with technical assistance to water utility managers, boards and operations specialists. It helps protect USDA Rural Development water utility infrastructure investments and plan for a sustainable future. The National Rural Water Association is the largest water and wastewater utility membership association in the U.S., dedicated to training and supporting professionals serving small communities and advocating on legislative issues. It was formed in 1976 by people committed to providing rural communities with clean, safe drinking water.¹

WHAT ARE THE CORE PROVISIONS OF THE CIRCUIT RIDER PROGRAM?

The Circuit Rider Program focuses on the following:

- ▶ Personal and professional help is at the heart of the program
- ▶ Hands-on training and technical assistance 24/7

- ▶ On-site activity-based training for participants to take ownership in learning how to resolve current and future problems
- ▶ For day-to-day operations and financial and managerial issues
- ▶ Continues to grow and adapt to changing circumstances like the COVID-19 pandemic
- ▶ The program benefits rural water agencies both nationally and internationally

WHO ARE CIRCUIT RIDERS?

Joseph Pheil, Executive Director, Ohio Rural Water Association, describes, “Circuit Riders are the backbone of the rural water industry, offering exceptional technical assistance and serving as vital communication hubs. They unite rural communities and foster collaboration and sharing of resources and experience. By acquiring and transferring the wisdom of veteran operators to the next generation, they help ensure systems can maintain continuous operations and growth of their knowledge base. Moreover, they champion the rural cause with state agencies,

skillfully guiding industry professionals through the ever-changing complexities of funding and regulatory landscapes.”

The Circuit Riders consist of:

- ▶ A nationwide team of experienced drinking water professionals providing training to water utility managers, boards and operation specialists
- ▶ Roving technical experts in the water and wastewater industry, including Disaster Circuit Riders
- ▶ Currently, there are 132 Circuit Riders across the U.S.
- ▶ Circuit Riders have provided technical assistance for more than 1.1M hours to help rural systems and communities since 2009
- ▶ Individuals can apply to become a Circuit Rider at NRWA.org

IS THERE AN INTERNATIONAL CIRCUIT RIDER PROGRAM?

Globally, 2 billion people still lack access to safe water, 3.6 billion live without improved sanitation and 122 million





still collect drinking water directly from surface water sources.² Contaminated water and poor sanitation contribute to 88% of all diseases in the developing world. To address these issues, the Desert Research Institute Center for International Water and Sustainability implements the International Circuit Rider Program, which focuses on three key areas: technical, administrative and community. The International Circuit Rider Program has been implemented in Ghana, Chile and Honduras.

IS THERE A TRIBAL CIRCUIT RIDER PROGRAM IN THE U.S.?

The Tribal Circuit Rider Program is the oldest and largest tribal-specific program of its kind. This program provides ongoing assistance to California, Arizona and Nevada tribes to help them provide safe water under the Safe Drinking Water Act. Assistance includes identifying affordable solutions, responding to emergencies, improving financial sustainability, ensuring compliance with federal regulations, and offering support in utility management and operations. Eligible project areas must serve a population of 10,000 or less and be owned and operated by

a public, nonprofit corporation or an Indian tribe with legal authority to operate the water facility.

ARE THERE STATE-SPECIFIC EXAMPLES?

In certain states, such as Oregon, contracts have been established with drinking water Circuit Riders to provide on-site technical assistance for small water systems. Oceanside Water District in northwest Oregon used the Circuit Rider Program to analyze costs, saving about \$2,500. Many states host Rural Water Association conferences yearly to provide training and support for the water and wastewater industry.

“The primary purpose of the West Virginia Rural Water Association is to provide technical support, training and workforce development to the state’s water and wastewater utilities. The Water Circuit Rider Program is the flagship program in West Virginia and most states. In West Virginia, three on-site Circuit Rider technicians assist water systems with leak detection, water tank inspection, line location, rate reviews, water utility management, operation and maintenance support, regulatory compliance, cybersecurity, and much more,” said Todd Grinstead, Executive Director of the West Virginia Rural Water Association.

“Collectively, all programs in West Virginia have over 360 years of experience working for rural water systems! In

addition, West Virginia has a particular tie to the Water Circuit Rider Program. The USDA Water Circuit Rider Program began under the direction of Mr. Dwight Calhoun. Following his retirement from USDA, Mr. Calhoun served West Virginia as a member of the West Virginia Rural Water Association board of directors.”

WHO SHOULD YOU CONTACT FOR MORE INFORMATION, OR HOW SHOULD YOU APPLY?

McWane Ductile offers training and a Preliminary Engineering Report template for smaller utilities, highlighting the benefits of Ductile iron pipe. We can honestly say that those within the Rural Water Association and Circuit Rider Program have seen the value of Ductile iron pipe, such as its energy savings, sustainability, service life, savings on construction costs and reliability.

To learn more about Circuit Rider assistance, check out the National Rural Water Association at NRWA.org or your state or local Rural Water Association. The USDA Rural Development and Rural Utilities Service Office at RD.USDA.gov provides valuable resources.

When we first considered writing an article about the Circuit Rider Program, we weren’t familiar with it. The more we read and learned about it, the more we found it interesting, and we felt compelled to spotlight the dedicated, hardworking professionals who provide such a critical service to rural water communities.

REFERENCES

1. National Rural Water Association, “Circuit Rider Program,” Accessed June 10, 2024. <https://nrwa.org/circuit-rider-program/>.
2. World Health Organization, “WHO/UNICEF Joint Monitoring Program for Water Supply, 2021,” Accessed June 10, 2024. <https://www.unwater.org/publications/who/unicef-joint-monitoring-program-water-supply-sanitation-and-hygiene-jmp-progress-0>.
3. Rural Water Association of Utah, Accessed July 14, 2024. <https://rwau.net>.



**McWANE
DUCTILE**

IRON STRONG

TR FLEX[®]

**PROVEN AND FLEXIBLE
RESTRAINED JOINT PIPE**

- **Proven** and versatile
- Easy to use
- **Flexible** yet strong
- Up to 350 psi pressure rating
- Install above or below ground
- Ideal joint for HDD installations
- Available 4"–36"

CONNECT WITH US



POCKET ENGINEER

Available for iOS + Android or
online at pe.mcwane.com

McWaneDuctile.com

TR FLEX[®] is a registered trademark of U.S. Pipe & Foundry Co.

IRON STRONG INSIGHTS 7

TR FLEX® PIPE: The Truth About Availability and Pressure Ratings

Misleading information has recently circulated regarding the availability of TR Flex® restrained joint pipe and fittings, creating a flurry of questions and uncertainty for engineers and utilities about its service performance and integrity. How can an engineer design a project without knowing the facts? After reviewing the information in this article, one can better understand future expectations.



HOW LONG HAS TR FLEX® PIPE BEEN IN SERVICE?

Before going further, let's first provide a brief history. TR Flex pipes have been installed for decades and have proven reliable. They are suitable for use in high-pressure applications, seismic-prone areas, deep bury, HDD (horizontal directional drilling) and penstocks, among others. McWane Ductile has yet to experience any TR Flex joint failures during our 15+ years of manufacturing more than 40,000 pieces annually.

HOW IS TR FLEX® PIPE MANUFACTURED BY MCWANE DUCTILE TESTED?

McWane Ductile manufactures various Ductile iron pipe joints, including the TR Flex pipe, which conforms to ANSI/AWWA C150 and C151 standards. All pipes, regardless of class, undergo rigorous hydrostatic testing to a minimum of 500 psi. This testing ensures the pipe can withstand significant pressure without leaks or failures. Additionally, McWane Ductile conducts random testing of

assembled pipe joints at a minimum of two times the rated pressure, exceeding AWWA standards. This additional testing provides an extra layer of assurance about the product's quality and reliability. For instance:

- ▶ Testing at 300 psi equates to a 150 psi rating
- ▶ Testing at 500 psi equates to a 250 psi rating
- ▶ Testing at 700 psi equates to a 350 psi rating

WHAT IS THE BASIS FOR THE CONFUSION?

Who enjoys a good word salad? Conflicting information regarding the pressure ratings for TR Flex pipe has been posted on the U.S. Pipe website and published in formal letters over the years. For example:

- ▶ In 2013, the pressure ratings for all sizes of TR Flex pipe were published in product literature found on the website.

- ▶ Beginning in 2016, it was stated that 30" and 36" TR Flex pipe and fittings had a 100 psi reduction in joint rating for a given parent pipe.
- ▶ Subsequently, in 2019, the word "fittings" was dropped without explanation.
- ▶ Lastly, in 2021, a letter was published that stated that 30" and 36" Pressure Class 150 pipe was only rated to 50 psi working pressure for TR Flex restrained joint pipe.

The published information continuously evolved, leading one to wonder why a flagship product that a company developed and proudly heralded for decades is now being "weakened in words only" by that same company.

During the same period that this confusing information was presented, the HDSS joint was actively promoted as a substitute product. Therefore, it's important to question whether the gradual changes in performance information were an attempt to "buy time" during the product development and testing process and reduce the surprise felt by engineers as they realized that the products they had been so sure about were no longer the same.

AS AN ENGINEER, WHY IS THIS APPROACH HARMFUL TO ME?

Having multiple approved products for piping ensures the strength and stability

of our nation's infrastructure. Eliminating competition and available product options could lead to increased pricing and the potential for supply chain disruptions. This is especially true on large-scale projects, which are often broken down into various phases. Completion dates are more easily met due to multiple contractors and suppliers working on separate phases simultaneously.

SO, WHAT IS REALLY NEEDED?

Design engineers usually consider operating or "working" pressure when designing for maximum efficiency. Most waterlines operate well below the previously mentioned thresholds, often at less than 100 psi working pressure.

For example, using the internal pressure and the ANSI/AWWA C151 Thickness Design of Ductile-Iron Pipe, take the following parameters: 36" pipeline operating at 100 psi (typically Hydrostatic tested at 150 psi), depth of bury at 8', and a Trench Type of II. See the diagram below which shows the calculation results for wall thickness.

The required wall thickness for Ductile iron pipe is a mere .068 thickness. The standard wall thickness for a 36" TR Flex Class 150 pipe is .38 nominal, five times the required calculated thickness for the given parameters. This additional thickness provides a safety margin, ensuring the pipe's structural integrity under various operating conditions.

Additional considerations are found in paragraph 4.1.2 of the ANSI/AWWA C151 Standard "Design for Trench Load" for the depth of bury and a trench Type II; this project's suggested class of pipe will be C200 pipe. Would anyone specify a Class 350 pipe for this project? Quite simply, NO. The 36" TR Flex Class 200 pipe is more than sufficient. Calculations are provided within seconds using the McWane Pocket Engineer at PE.McWane.com.



CLEAR PRODUCT INFORMATION IS CRITICAL

In conclusion, as key decision-makers in water projects, engineers and utilities deserve and should demand accurate information. This is crucial for making sound decisions and ensuring the success of their projects. The facts presented show that TR Flex pipe joints have a proven track record of success. We want to be clear: McWane Ductile has not de-rated any products.

McWane Ductile is committed to manufacturing the TR Flex joint and will continue to do so. We manufacture our products in our three domestic facilities, employing local union workers who prioritize safety and environmental responsibilities. We encourage water professionals to contact your local McWane Ductile representatives or Technical Engineers for further information or clarification.

Determining the Pressure Rating

ANSI/AWWA C150	or	McWane Pocket Engineer									
$\text{Thickness} = \frac{150\text{psi} \times 38.30 = 5,745}{2 \times 42,000 = 84,000}$ $5,745 \div 84,000 = .068$ <p>36 TR Flex C150 = .38 Nominal</p>											
<p>Where:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">t = net thickness, in.</td> <td style="width: 33%;">P_s = surge allowance, 100' psi</td> <td style="width: 33%; text-align: right;">$t = \frac{P_i D}{2S}$ (Eq 1)</td> </tr> <tr> <td>P_i = design internal pressure, psi = 2 ($P_w + P_s$)</td> <td>D = outside diameter of pipe, in.</td> <td></td> </tr> <tr> <td>P_w = working pressure, psi</td> <td>S = minimum yield strength in tension = 42,000 psi</td> <td></td> </tr> </table>			t = net thickness, in.	P_s = surge allowance, 100' psi	$t = \frac{P_i D}{2S}$ (Eq 1)	P_i = design internal pressure, psi = 2 ($P_w + P_s$)	D = outside diameter of pipe, in.		P_w = working pressure, psi	S = minimum yield strength in tension = 42,000 psi	
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P_i = design internal pressure, psi = 2 ($P_w + P_s$)	D = outside diameter of pipe, in.										
P_w = working pressure, psi	S = minimum yield strength in tension = 42,000 psi										



DEAR DITCH DOCTOR,

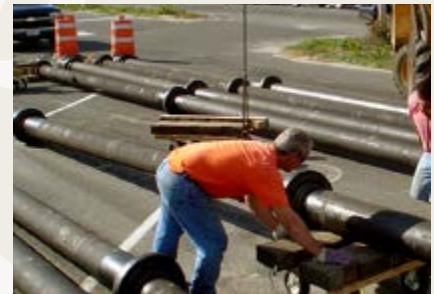
I am installing a portion of a new 20-inch Ductile iron pipeline by horizontal directional drilling (HDD). The pipeline segment to be pulled is about 1,000 feet long and already assembled above ground. It is sitting there, ready to be installed through the open bore already drilled under a large body of water adjacent to a golf course. The entry and exit pits are dug, the machinery is ready, my guys are ready, and just now, the Project Inspector shut me down because he says I need "protective rollers" under the pipe to be pulled and a "schedule of rest" must be submitted for the pipe segment following the pull-into-place. Am I missing something here? That all sounds so unnecessary to me!

Sincerely,
Stopped in Stockton

DEAR STOPPED,

Well Stopped, I must tell you, it sounds so unnecessary because it is ... at least when using Ductile iron pipe! The innate properties of DI make most if not all the "additional concerns" encountered during HDD with alternate pipeline materials, especially plastic pipes (PVC or HDPE) a "nonissue." A true "nothing burger" as some like to say these days.

Most commonly, these additional needs or practices with plastic pipes involve supportive rollers underneath the entirety of the plastic pipeline to protect it from disqualifying scratches or scrapes in their pipe wall contact with the ground and then a period of "rest" post-pull to allow



the plastic pipeline to "relax" back to its original length before connecting to other pipeline portions or structures, as plastic pipes are known to "stretch" during the pulling portion of HDD installations. This rest period is commonly three to five days at a minimum. And, like in all of construction, TIME IS MONEY, and doesn't that sound like a waste of both?

No "extras" are needed when using strong yet flexible and resilient Ductile iron pipe. DI pipe is not prone to scratching from what it rides against and requires no rest after work! Connect it to other sections or structures immediately after pulling it into place if you want to. It won't ever "shrink." If anything, perhaps the Inspector is concerned

that the iron-strong durable DI pipe might damage the curbs or asphalt of a parking lot or roadway that you might be dragging along or across while installing it. I mean, you did say you were doing this next to a golf course, and they tend to like their grounds perfect! Check the pictures on this page to see the differences I am talking about. I hope this helps you get going again! Happy HDD'ing!

Sincerely,
The Ditch Doctor



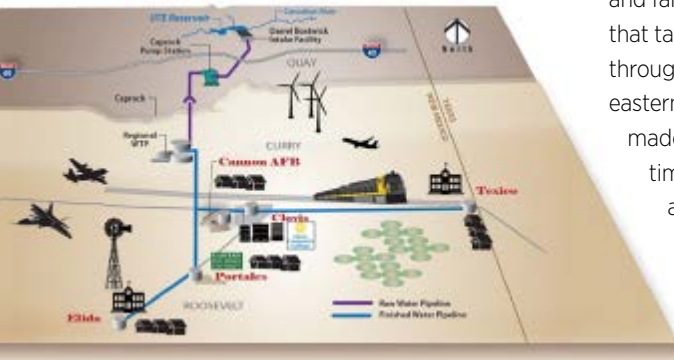
PROJECT PROFILES



West

PROJECT PROFILE

The Eastern New Mexico Water Utility Authority has been working on multiple phases of this project over many years. McWane Ductile has partnered with them again for this phase, which is expected to last an estimated one year of production time. The project aims to provide potable water to four city and county member agencies and Cannon Air Force Base for municipal, commercial and industrial use. The Eastern New Mexico Water Utility Authority members include the city of Clovis, the town of Elida, the city of Portales and the city of Texico. Partnering



with Smithco Construction, Inc., McWane Ductile Engineer Jacob Lovin and Sales Representative Ben Johnson were on-site for delivery to help teach, train and answer any questions the contractor had.

Along with the pipe listed below, McWane Ductile was tasked with supplying over 100 custom TR Flex® closure pieces, Flange spools and TR Flex fittings to meet the complex project needs. There was a spec called out for three, 20" TR Flex pieces of pipe to have a 6" welded outlet flange we supplied for air release assemblies as well. Core & Main, located in Albuquerque, New Mexico, was the distributor on this project.

Smithco Construction, founded in 1969 and family-owned, is a general contractor that takes great pride in the work it does throughout West Texas, New Mexico and eastern Arizona. Partnering with them made this yearlong process from bid time to material delivery as smooth as possible. The three pieces of 20"

TR Flex listed as "other" were the full pipe sticks with 6" welded outlet flanges provided by McWane Ductile — Utah. With miles of Ductile iron pipe already installed for this project and more miles to come, this line will be iron strong for generations.



- Sales Region:** West
- Sales Representative:** Ben Johnson
- Project Location:** Portales, NM
- Project Name:** Finished Water 3B (FW3B)
- Project Owner/Utility:** Eastern NM Water Utility Authority
- Project Engineer:** Jacobs
- Project Contractor:** Smithco Construction, Inc.
- Project Distributor:** Core & Main, Albuquerque, NM

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	TR Flex®	350	360
20"	TR Flex®	250	5,078
20"	Other	250	54

Sales Region: Midwest

Sales Representative: Clinton "CJ" Fowler

Project Location: Columbus, OH

Project Name: Columbus Airport Waterline

Project Owner/Utility: City of Columbus Water

Project Contractor: Beaver Excavating

Project Distributor: Core & Main, Columbus, OH

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
12"	Tyton®	52	700
12"	TR Flex®	52	300
16"	Tyton®	52	7,400
16"	TR Flex®	52	2,300



Columbus, Ohio, has been in the news quite a bit lately for a new Intel® Chip factory being built, but another significant project is also underway at the same time. John Glenn Columbus International Airport, located in the heart of Columbus, recently received approval for a \$2 billion expansion project. This project, which focuses on constructing one large terminal instead of the three terminals the airport currently has, is set to enhance airline passengers' experience and provide a state-of-the-art facility. The airport will also include a new pedestrian bridge allowing passengers to walk to the rental car center and a new 5,000-space parking garage. "Columbus should be proud of a top-tier, world-class airport. We are determined to deliver on that," said Joseph Nardone, President and CEO of the Columbus Regional Airport Authority.

Many people overlook the underground infrastructure necessary for an undertaking of this size and nature, but that tends to be the first thing completed in a project. This crucial task is being accomplished by Beaver Excavating, a local business based out of Canton, Ohio. They are focused on installing some 1,000 feet of 12" and 9,000-plus feet of 16" Ductile iron pipe for water supply to support the new building project slated to be completed in 2029. Beaver Excavating, a long-standing contractor for Ohio, has been instrumental in installing bridges, roads and waterlines for decades, and their

role in this project is a testament to the capabilities of local businesses in contributing to the city's development.



PROJECT PROFILE

Midwest





Northeast

PROJECT PROFILE

The New York State Department of Transportation is building a new bridge for Transit Road over Cazenovia Creek in Elma, New York. This project required relocating an existing 36" Prestressed Concrete Pressure Pipe (PCCP) waterline. The NYSDOT chose 36"

TR Flex® boltless restrained joint Ductile iron for the 1,300-foot-long new waterline. Union Concrete & Construction Corp., a reputable company in business since 1950 and known for its quality work, took on the task of installing the new water main, which included both

vertical and horizontal bends. This transmission line relocation included installing 36" DI pipe under Cazenovia Creek and up a solid rock embankment on both sides of the creek.

The DI pipe was anchored to the rock barrier and encased in concrete to secure the installation. Garrett Chilson, Union Concrete's Project Superintendent, worked with Core & Main and McWane Ductile to help facilitate the installation. This pipeline is a major transmission main for the Erie County Water Authority, Buffalo, New York. McWane Ductile is proud to collaborate with Bill Kelley of Core & Main, Lockport, New York, and Union Concrete on this project.



Sales Region: Northeast

Sales Representative: Mike Palermo

Project Location: Elma, NY

Project Name: NYSDOT U.S. Route 20

Project Owner/Utility: New York State Department of Transportation

Project Engineer: NYSDOT

Project Contractor: Union Concrete & Construction Corp.

Project Distributor: Core & Main, Lockport, NY

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
36"	Tyton®	52	108
36"	TR Flex®	52	1,196

Sales Region: South
Sales Representative: Tyler Phillips
Project Name: The Millington Contracts 1 & 2
Project Location: Millington, TN
Project Owner/Utility: Millington Water Department
Project Engineer: Fisher Arnold
Project Contractor: Argo Construction Corp.
Project Distributor: Consolidated Pipe & Supply, Collierville

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
16"	Tyton®	250	11,808
16"	TR® Flex	350	702



The city of Millington, Tennessee, had been looking to expand its water system for its citizens for quite some time. The two combined projects aimed to open a new distribution system and close the waterline loop around the entire city to give them a redundancy and additional agility if something were to happen somewhere in the water distribution system.

Wayne Cole has been with the city of Millington Water Department for a long time and finally saw his years of hard work pay off with this latest expansion project. When asked what the project would bring to the city of Millington, he quickly answered, "It is going to bring our

citizens another 1,000 acres." The added acreage will soon be developed into neighborhoods and shopping centers for the citizens of Millington. Cole describes how the city has worked for years to "close the water loop" around the town with this last expansion phase. He knew it wouldn't be easy with a railroad crossing and a creek crossing or two that would come into play and would add some difficult challenges to the design.

The project was designed by a Professional Engineer at Fisher Arnold, located on the eastern side of Memphis, Tennessee. It cost \$2,764,656 with zero outside funding from the federal or state levels. They were tasked with designing the waterline project with input from Cole and his department. This project included a horizontal directional drill under a railroad crossing using 16" TR Flex. This task can easily be tackled using a McWane Ductile-provided puller head and the cartridge method, which



involves pulling the pipe one stick at a time through the drill profile. Argo Construction Corp. (Cordova, Tennessee) handled the drilling efficiently as they are a professional contractor supporting our partner Consolidated Pipe & Supply. The job was bid on in the middle of the third quarter of 2023. McWane Ductile started shipping the pipe, which was installed later that same year. Consolidated Pipe & Supply supplied the pipe and all other waterworks items in Collierville, Tennessee.

PROJECT PROFILE
South





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