

A QUARTERLY MAGAZINE FROM MCWANE DUCTILE

IRON STRONG INSIGHTS™

SPRING 2024



**McWANE
DUCTILE**

BUILDING IRON STRONG UTILITIES FOR GENERATIONS

How To Ensure Proper Installation of Ductile Iron Pipe During Hot Weather

PG. 4

ALSO IN THIS ISSUE

- OSHA Heat Illness Tip Sheet
- Project Profiles



**McWANE
DUCTILE**

Contact Us: McWaneDuctile.com

Mike Dodge, VP Sales & Marketing
Stuart Liddell, Sales Operations Manager
Andrea Kubik, Marketing Manager

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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

How To Ensure Proper Installation of Ductile Iron Pipe During Hot Weather

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Welcome to Iron Strong Insights™

Dear Readers,

Welcome to the Spring edition of our quarterly magazine. As we embrace the season of renewal, let's reflect on recent milestones and upcoming endeavors within the McWane family.

In the first quarter of 2024, McWane orchestrated a remarkable team-building event that transcended boundaries. Employees from the various waterworks divisions converged for a unified purpose—to fortify our brand and cultivate synergy. This event not only strengthened internal relationships but also amplified our collective vision, propelling us toward the shared objective of better serving our customers and building solid relationships.

As we delve into the bustling construction season, rest assured that lead times for our products are no longer a concern. Thanks to substantial capital improvements across our facilities in the past two years, delivery expectations for almost all products have normalized.

Our dedicated staff remains deeply engaged, participating as exhibitors and presenters in multiple tradeshows and conferences. Moreover, we invite all to explore the diverse training opportunities McWane Ductile offers, ranging from insightful Lunch & Learns to immersive Day of Water events. To discover more about our resources, including these educational initiatives, visit our Learning Center on our website.

Looking ahead, mark your calendars for ACE23 in Anaheim, CA, where the entire waterworks group from the McWane family will be at Booth #2419. We eagerly await the chance to connect with fellow waterworks professionals, discussing how we can collaboratively build iron-strong utilities for future generations.



Stuart Liddell
Sales Operations Manager
Sales Operations Department



CELEBRATING 2023 PERFORMANCE ACHIEVEMENTS

McWane Ductile (MD) was proud to participate in the recent 2024 McWane Waterworks Sales Conference held in Naples, Florida. The conference focused on team building, enhanced collaboration and heightened synergy among the McWane family of waterworks companies.

Following the first two days of meetings, the gathering transitioned into breakout sessions, with individual companies convening to share updates, discuss strategic initiatives and celebrate achievements.



Recipients, pictured left to right, were: West — **Jason Harrison**. South — **Josh Baker**. Midwest — **Clinton (CJ) Fowler** and North — **Jeff Houser**.

Four MD sales reps earned 2023 Salesperson of the Year in their respective regions. Those selected demonstrated outstanding customer service and account management performance and surpassed assigned goals.



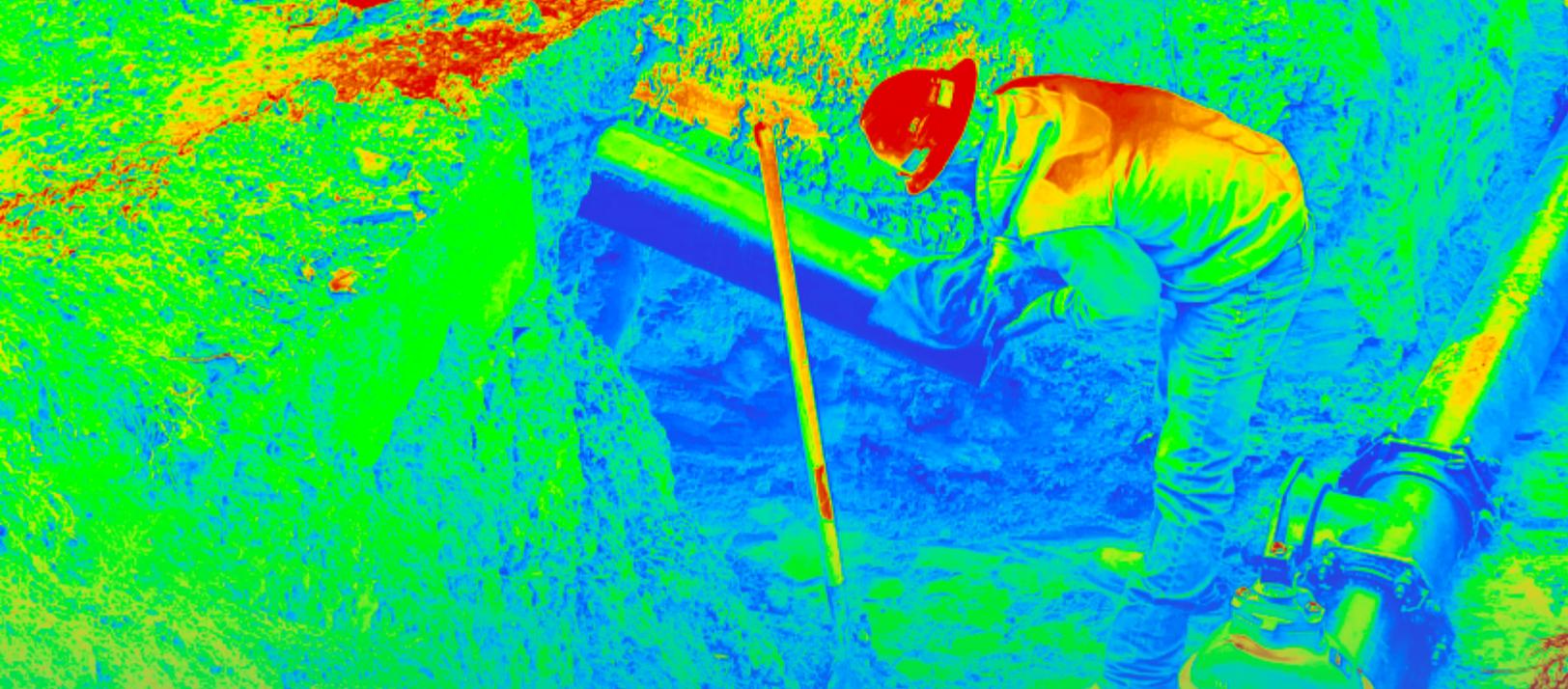
Josh Baker, pictured with Mike Dodge, VP Sales & Marketing, earned the 2023 Terry Lynch National Sales Professional of the Year Award for demonstrating excellence in customer service, account management, specification work, customer training and presentations, internal/external communications, supporting marketing efforts, completing assignments, and overall leadership.

Five employees were recognized for their outstanding efforts in 2023 toward crafting informative blogs, creating educational videos and their engagement with water professionals. Categories and recipients were:

- Most Engaged on Social Media — **Cole Mitcham**
- Most Prepared — **David Bridge**
- Most Instructional Video Series — **Jerry Regula**
- Best Fake It Till You Make It Video — **Chris Howe**
- Best Performing Blog and Video — **Josh Baker**

The 2023 Best Photo Contest winners were:

- Gary Gula
- Jaycie Howell
- Josh Baker



HOW TO ENSURE PROPER INSTALLATION OF DUCTILE IRON PIPE DURING HOT WEATHER

BY TYLER PHILLIPS AND GARY GULA

AS WE WELCOME THE LONGER DAYS AND NIGHTS ASSOCIATED WITH SPRING AND SUMMER, THE OUTSIDE TEMPERATURES ACROSS THE COUNTRY WILL NO DOUBT RISE AS WELL. AT SOME POINT THROUGHOUT THE SPRING, SUMMER AND EVEN FALL MONTHS, NEARLY EVERY TOWN ACROSS THE U.S. WILL LIKELY EXPERIENCE UNUSUALLY WARM AND SOMETIMES DANGEROUS CONDITIONS.

This article will cover some key points to remember when working in extreme heat and humidity on a Ductile iron pipe (DI pipe) installation project. These tips can apply regardless of whether you are in a traditionally cooler climate, rural town or "asphalt jungle."

YOUR SAFETY COMES FIRST

PROTECTING YOU AND OTHERS: At McWane Ductile, we have a saying

in our foundries and facilities with high-temperature indoor working conditions: "You are your brother's and sister's keeper." This also applies in the field. Your team goes to work every day installing pipelines to ensure society has reliable drinking water, and the most important thing on a job site is your safety and those around you.

Employee safety can be affected by several factors during warmer months. Any process or job site likely to raise the

worker's deep core temperature (often listed as higher than 100.4 degrees Fahrenheit (38°C)) raises the risk of heat stress. Operations involving high air temperatures, radiant heat sources, high humidity, direct physical contact with hot objects or strenuous physical activities have a high potential for inducing heat stress in employees. Heat disorders and life-threatening health effects from extreme heat include heat fatigue, rashes, heat exhaustion and even heat stroke.¹

Team members must know their bodies and recognize predisposing factors, danger signs and symptoms of heat stress that may affect themselves and others. Employees should understand job site emergency protocols if a co-worker falls ill due to heat stress. Cut out OSHA's handy tip sheet found on page 8 and post it for your crews.

Staying well hydrated and cool during elevated dew points will keep workers thinking clearly and safely while avoiding exhaustion and overheating. Another thing to remember is that when temperatures outside start to rise, so might temperatures on the job site. Crews must take adequate breaks in shady, cool recovery areas to remain aware and focused. It's recommended that crews start earlier in the morning and thus finish earlier to avoid working in the hottest part of the day. Understand labor laws in your respective state regarding the health and safety of your construction crews.

PROTECTING YOUR BODY: Protecting your skin against direct sunlight is also very important. A bottle of SPF 30 or higher sunscreen, hats, neck gators, shaded safety glasses and long-sleeve



shirts will protect against sunburn and avoid serious skin issues now and later in life.

Ductile iron pipe, valves and fittings sitting in the sun for more than 10 minutes can generate a surface temperature far above a touchable temperature if the skin is unprotected. Just think about how often your hands touch something on the job site that has been baking in the sun throughout the day. Wearing appropriate gloves and long-sleeved shirts can protect against burns when maneuvering pipe and help reduce downtime and costs incurred from hand injuries.

In addition, the black exterior sealcoat on the surface of the DI pipe may become tacky during extreme

temperatures. Wearing gloves and protective clothing can prevent black, sticky paint on the skin.

PROTECTING AND INSTALLING THE PIPE

Ductile iron pipe and related materials should be stored in a suitable location on the job site. When storing DI pipe for extended periods, it is important to cover or cap the ends. This added precaution will reduce the possibility of damage to your linings and coatings due to UV rays and help keep the gasket seat area of the bell clean and dry.

Due to extreme heat, you may also notice some "cracking and crazing" of the cement lining inside your pipe. Don't be alarmed by this, as it is not a defect. The crazing pattern will repair itself once the pipeline is filled with water through autogenous healing. Please see our blog on this topic to further explore what autogenous healing of DI pipe is at McWaneDuctile.com/blog (keyword: autogenous).

Although sometimes tricky, avoid storing the pipe on open dirt where dust, mud and other debris can easily enter it.





Extreme heat may also cause drought-like conditions, creating the potential for dust build up in the gasket seat. And let's not forget the storms. Thunderstorms typically develop in the warmer months of spring, summer and fall, but they can occur at any time of the year over most of the U.S. Three basic ingredients are needed for thunderstorm development: moisture, an unstable atmosphere and some way to start the atmosphere moving.² (Remember to seek shelter during thunder/lightning storms.)

If you experience both weather conditions — dusty drought followed by extreme storms — rainwater can settle inside the gasket seat area. When the water evaporates, a layer of dirt may form inside the gasket seat, which can cause displaced gaskets. It is paramount that the bells and spigots are wiped clean with water and a rag before gaskets are inserted. Keeping a good water supply on the job site can safeguard against a pressure test failure.

WHAT ABOUT POLYWRAP? Research shows that polyethylene encasement (aka polywrap) used for DI pipe installations generally holds up well in extreme heat and sunlight. The AWWA C105 Standard notes that prolonged

exposure to sunlight will eventually deteriorate polyethylene film.³ Other research by the Ductile Iron Pipe Research Association has found it remains effective at temperatures up to near 180°F but can soften or melt in the 200°F–230°F range.

CARING FOR AND INSTALLING RUBBER GASKETS

Gaskets must be stored and treated with care during extreme heat to ensure the best performance. If possible, avoid leaving the gaskets in direct sunlight. When left in direct sunlight, gaskets can become softer and more pliable. This change in firmness can lead to potential installation issues, such as the gasket slipping and rolling out of the seating area. Storing the gaskets in the shade will also limit any possible adverse effects from interacting with the sun's UV rays. Installing gaskets during extreme heat is the same as any other time of the year.

The best practice is to keep the gaskets in a shaded, cool and dry place until needed. You should install the gaskets as the pipe is being laid in the trench, just before the next piece of pipe is inserted. This process keeps the gaskets from sitting against extremely hot pipe surfaces for too long. For additional information on the types of gaskets and how to store them, please review McWaneDuctile.com/blog (keyword: gaskets).

PROTECTING AND USING THE RIGHT PIPE LUBE

Again, the same care given to gaskets applies to pipe lubricant. If possible, store lube in a cool, shaded area before installation. The typical usable temperature range for pipe lubricants is -10°F to 150°F, with a boiling point starting at >180°F to 220°F. Finally, the typical flash point for these pipe lubricants is around >220°F.



If lube looks separated, oily, puttied, or hard from old age or poor storage, dispose of it. Using pipe lube provided by the pipe supplier is always recommended, while purchasing lube from a local distributor is a better option than using old lube.

McWane Ductile ships pipe lubricant with every pipe load and, currently, only recommends using three different brands of pipe lubricant during



installation: Phoenix 27-XL and Black Swan for general use and NO-OX-ID Lubricant for subaqueous installations. These products have been thoroughly tested for their effectiveness in our Universal Test Facility located in Ohio.

LEARN MORE SAFETY AND INSTALLATION TIPS

As with cold temperatures, installing Ductile iron pipe in hot temperatures presents its own challenges. During such

conditions, our first concern is always the health of our foundry employees and the safety of waterworks crews in the field. Applying the recommendations in this article can help you avoid heat stress hazards, ensure the best material performance and efficiently install your Ductile iron pipeline system in extreme heat. To learn more about combating heat stress, check out our national award-winning blog and video at McWaneDuctile.com/blog (keyword heat stress). If you have additional questions related to Ductile iron pipe, please contact your local representative for assistance.

REFERENCES

¹ U.S. Department of Labor, "Heat Stress Guide," OSHA.gov, 2024, Accessed March 24, 2024. <https://www.osha.gov/emergency-preparedness/guides/heat-stress>.

² National Weather Service, "Understanding Lightning: Thunderstorm Development," Weather.gov, 2024, Accessed March 24, 2024. <https://www.weather.gov/safety/lightning-thunderstorm-development>.

³ American Water Works Association, "AWWA C105-10 Polyethylene Encasement for Ductile-Iron Pipe Systems (PDF)", [awwa.org](https://engage.awwa.org/PersonifyEbusiness/Bookstore/Product-Details/productId/25362), 2024, Accessed March 24, 2024, <https://engage.awwa.org/PersonifyEbusiness/Bookstore/Product-Details/productId/25362>.

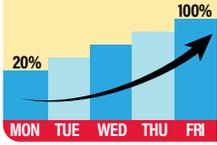


Prevent Heat Illness at Work

Outdoor and **indoor** heat exposure can be dangerous.

Ways to Protect Yourself and Others

Ease into Work. Nearly 3 out of 4 fatalities from heat illness happen during the first week of work.



- ✓ **New and returning** workers need to build tolerance to heat (acclimatize) and take frequent breaks.
- ✓ **Follow the 20% Rule.** On the first day, work no more than 20% of the shift's duration at full intensity in the heat. Increase the duration of time at full intensity by no more than 20% a day until workers are used to working in the heat.



Drink Cool Water

Drink cool water even if you are not thirsty — at least 1 cup every 20 minutes.



Dress for the Heat

Wear a hat and light-colored, loose-fitting, and breathable clothing if possible.



Take Rest Breaks

Take enough time to recover from heat given the temperature, humidity, and conditions.



Watch Out for Each Other

Monitor yourself and others for signs of heat illness.



Find Shade or a Cool Area

Take breaks in a designated shady or cool location.



If Wearing a Face Covering

Change your face covering if it gets wet or soiled. Verbally check on others frequently.

First Aid for Heat Illness

The following are signs of a medical emergency!



- Abnormal thinking or behavior
- Slurred speech
- Seizures
- Loss of consciousness

- 1 >> **CALL 911 IMMEDIATELY**
- 2 >> **COOL THE WORKER RIGHT AWAY WITH WATER OR ICE**
- 3 >> **STAY WITH THE WORKER UNTIL HELP ARRIVES**



Watch for any other signs of heat illness and act quickly. When in doubt, call 911.

If a worker experiences:

- Headache or nausea
- Weakness or dizziness
- Heavy sweating or hot, dry skin
- Elevated body temperature
- Thirst
- Decreased urine output



Take these actions:

- >> Give water to drink
- >> Remove unnecessary clothing
- >> Move to a cooler area
- >> Cool with water, ice, or a fan
- >> Do not leave alone
- >> Seek medical care if needed



**For more information: 1-800-321-OSHA (6742)
TTY 1-877-889-5627 www.osha.gov/heat**

Federal law entitles you to a safe workplace. You have the right to speak up about hazards without fear of retaliation. See www.osha.gov/workers for information about how to file a confidential complaint with OSHA and ask for an inspection.

CUT OUT OSHA'S HANDY TIP SHEET FOUND ON PAGE 8 OF THIS MAGAZINE AND POST IT FOR YOUR CREWS.



OSHA 3431-05ER 2021



DEAR DITCH DOCTOR,

The inspector on my current installation is raising a fit saying, "I still see the stripes ... redo that pipe joint!" Is he right, or should I tell him that's not a problem?

**Sincerely,
Annoyed in Andalusia**

DEAR ANNOYED,

Tiger stripes, zebra stripes, roadway stripes, candy stripes and even barcode stripes ... all have a purpose, and each is different. The same goes for the stripes at the end of a Ductile iron pipe spigot. Tyton® joint pipe has two stripes around the barrel near the beveled spigot end as received from the factory. These indicate the portion of that pipe end that will be homed (inserted to the stripes) of the bell section of another DI pipe of the same diameter. They are circumferentially parallel to each other and approximately 1/2 inch apart. When the spigot is homed correctly, you'll hear the "thump" during assembly. The second stripe, the one furthest from the bell being inserted into,

finishes in a position flush or thereabouts with the entry lip of the bell. Anything near that is fine. When you deflect a joint in any direction post-assembly, a portion of this same second stripe — and often the first stripe — will be exposed to the outside radius of the offset joint. Again, common by design. So, seeing at least one of the stripes when set straight in is like knowing a tiger by its stripe, which is perfectly normal. Truthfully, these spigot stripes are most useful as an "alignment gauge" BEFORE you push the pipe home. Simply compare the spigot stripes to the face of the bell it is entering as you set the spigot gently on the bell lip, and if they look like train tracks, parallel to each other from any direction you view them, PUSH the pipe home and get you your traditional THUMP of completion. "Over-homing" is NOT a concern with DI pipe. So yes, it is not a problem. It's a Ductile iron pipe design feature! And much less dangerous than encountering the stripes of a tiger in person!

**Sincerely,
The Ditch Doctor**



DD



DEAR DITCH DOCTOR,

Now that I'm actually constructing this pipeline, I am being told that any pipe I cut must be "re-zinc'd" before assembly into a joint per the project specifications. This seems crazy to me, and I've never had to do it before. What should I do now?

**Sincerely,
Zinc'd Up in Zanesville**

DEAR ZINCED,

The factory-applied zinc coating on the barrel exterior of Ductile iron pipe is applied by vaporizing zinc wire with a significant electric arc inside special machinery, so it becomes a permanently affixed portion of the non-flyable metal surface. There is no potential nor fear to be had of fluids or other corrosives migrating under the zinc at a cut end, as can be the case with most paints or some epoxies. The zinc coating itself is not a stand-alone corrosion prevention mechanism on DI pipe. It works best with appropriate polyethylene pipe encasement, like antibacterial ointment under a Band-Aid on your skin! There is no need to

"re-zinc" or otherwise coat the vertical surface of the cut end as it becomes an "interior surface" in the joint, not subject to the corrosive mechanisms that might want to attack the outside of the pipe. So that you know, the inside surfaces of the bell section on DI pipes are not zinc-coated. Doing so could affect the dimensional needs of the joint, and there truly is no purpose to it, as, again, inside surfaces are coated with other special linings if a corrosive fluid service is anticipated. That's a whole different discussion we could have at another time. So, for your question here ... cut and move on. No worries. But I must also tell you, in all sincerity and experience, the time to question or amend project specifications is BEFORE you begin installation, not DURING. Most authorities avoid discussing changes during the construction, and it is difficult to change their minds at that point. Talk first, cut second. Always a good plan.

**Sincerely,
The Ditch Doctor**

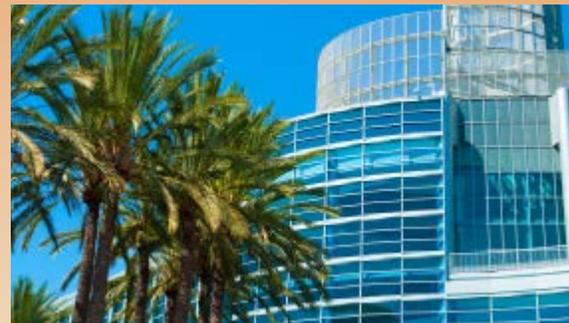
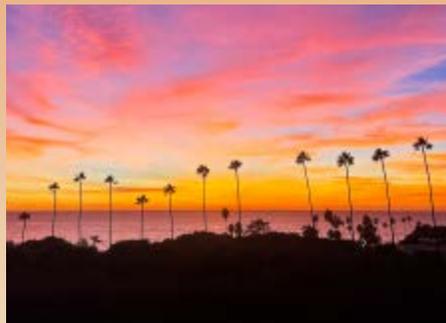
CHAT WITH US AT

ACE24

June 10-13

Anaheim Convention Center
Anaheim, CA

Booth #2134



SPLASH INTO ANAHEIM WITH US!

Visit McWane Ductile in the happiest place on earth this summer.

We'll be at the annual ACE24 conference in Anaheim, California — and we want to see you! Stop by **booth #2134** to find out how McWane Ductile is **Building Iron Strong Utilities for Generations.**

McWaneDuctile.com





West

PROJECT PROFILE

Boulder Creek is a small community nestled in the hills between the Bay Area and the Pacific Ocean that has been dealing with an aging infrastructure. It's the home of the San Lorenzo Valley Water District, and the area that received

this system acquired a much-needed upgrade. They upsized their water main while abandoning two aging and existing water mains. This challenging install had tight easements and steep and drastic roadway profiles, all while working through a reduced construction envelope. MPE installed the project within budget and on time despite all the challenges faced throughout this project. The Ductile iron manufactured by McWane Ductile

was made available through Core & Main Salinas, which continues to be a great partner with McWane Ductile.



Sales Region: West
Sales Representative: Bill Kleczka
Project Location: Boulder Creek, CA
Project Name: Lyon and Big Steel Zone Pipeline Improvement Project
Project Owner/Utility: San Lorenzo Valley Water District
Project Engineer: Schaaf & Wheeler
Project Contractor: Monterey Peninsula Engineering
Project Distributor: Core & Main Salinas

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	350	360
8"	Tyton®	350	720
12"	Tyton®	350	11,200



Sales Region: Midwest
Sales Representative: Shawn Smith
Project Location: Kenosha, WI
Project Name: Innovation Neighborhood
Project Owner/Utility: Kenosha Water Utility
Project Engineer: R.H. Batterman & Co., Inc.
Project Contractor: A.W. Oakes & Son, Inc.
Project Distributor: Ferguson Waterworks Pewaukee

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	53	273
8"	Tyton®	52	4,327
12"	Tyton®	52	2,618



The Kenosha Innovation Neighborhood is designed to be a place where tech startups and other forward-thinking companies can share ideas and change the future of their various industries. The site was previously used as an American Motors and Chrysler engine plant. The plant closed in 2010, and the site has been vacant ever since. Contaminated soils were a significant concern because

the site was previously home to an engine plant. The city decided to use Ductile iron pipe instead of PVC pipe for the project because there was concern about the possibility of contaminants leaching through the plastic pipe material. They are also choosing to use Viton gaskets in the contaminated areas. Local McWane Ductile Sales Representative Shawn Smith was

involved in the design process and provided preconstruction on-site training to all inspectors and contractors. He was also there to assist in job startup for the project.



PROJECT PROFILE

Midwest





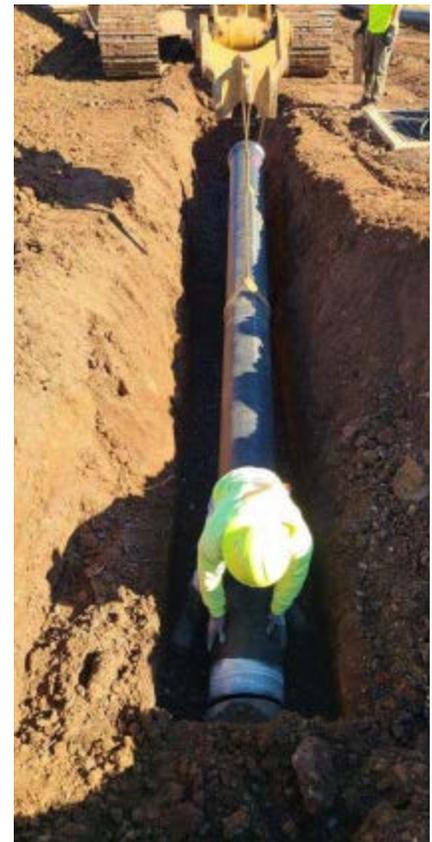
Northeast

PROJECT PROFILE

Schlouch Incorporated of Blandon, Pennsylvania, was named the site contractor by Foxlane Homes at Highpoint, LLC, to prepare the 33.12-acre site for the High Point Racquet Club project. The site will consist of 28 twin homes, 48 two-story townhomes and 61 three-story townhomes. The project is in New Britain Township, Bucks County, Pennsylvania. Doug Gable is Schlouch's site coordinator and Taylor Noggle is project manager/estimator. Work will be completed in summer of 2024.

The overall scope of the High Point project includes earthwork, drainage systems, sediment and erosion control, sanitary and storm sewers, water line installation, curbs, paving, and seeding. Here is the history of how Schlouch Incorporated got started. Barry and Deb Schlouch founded Schlouch Incorporated on March 3, 1983, in the basement of their home in Berks County, PA, to do excavating and utilities.

Their first job in 1983 was a \$15k assignment to prepare a site for Wendy's® in West Reading, PA. They recently celebrated 41 years in business! Today, Schlouch has 275 employees and has expanded services to survey, blasting, concrete and paving. Schlouch Incorporated provides quality site design/site construction services and solutions to clients throughout southeast PA and the surrounding states. Schlouch Incorporated has been a McWane Ductile customer since 1989.



Sales Region: Northeast

Sales Representative: Bob Hartzel

Project Location: New Britain Township, Bucks County, PA

Project Owner/Utility: North Wales Water Authority

Project Engineer: Van Cleef Engineering Associates

Project Contractor: Schlouch Incorporated

Project Distributor: Ferguson Waterworks

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
6"	Tyton®	52	36
8"	Tyton®	52	3,186
12"	Tyton®	52	1,530

Sales Region: South
Sales Representative: Gary Gula
Project Location: Gibsonton, FL (Hillsborough County)
Project Owner/Utility: FDOT/Hillsborough County Utilities
Project Engineer: Dewberry Engineers Inc. (Orlando, FL)
Project Contractor: Skanska USA Civil Southeast Inc. (Maitland, FL)

Types of Ductile iron pipe used on the project:

DIAMETER	JOINT	CLASS	FOOTAGE
4"	Tyton®	52	90
4"	Tyton®	51	378
12"	Tyton®	50	144
12"	TR® Flex	50	216
16"	Tyton®	50/P401	342
16"	Tyton®	50	342
16"	TR® Flex	50	864
36"	Tyton®	50	1,962
36"	TR® Flex	50	4,104



The I-75 Interchange Improvements at CR 672 (Big Bend Road) project was initially bid and began shipments during the height of the supply chain issues the underground utility industry was facing in 2021-2022. This Florida Department of Transportation (FDOT) project entails a complete reconstruction of the I-75 ramps at Big Bend Road, various drainage and utility adjustments, additional lanes, and other roadwork associated with expanding the interchange to accommodate recent and future growth.

Without any prior history of working directly with McWane Ductile in Florida, Skanska USA Civil Southeast Inc. (Maitland, FL) showed confidence in partnering with us to fulfill their needs during the uncertain times experienced

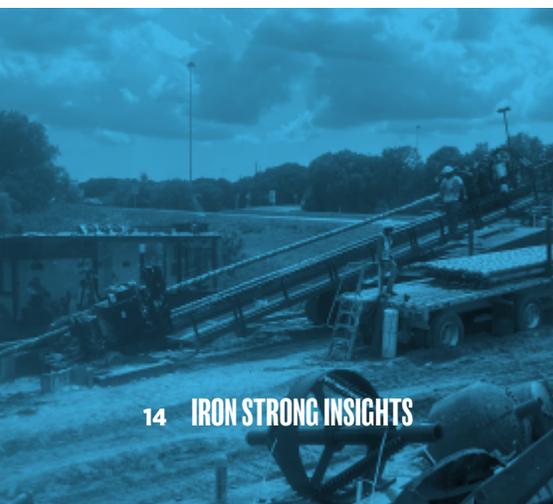
by everyone in the industry. As with almost every project in that same time frame, there were hurdles to overcome regarding production, shipments and unforeseen market adjustments resulting in some concessions to be agreed upon by both parties. That said, as partners do, Skanska USA Civil Southeast Inc. and McWane Ductile were able to navigate the uncertain times together.

Skanska USA Civil Southeast Inc. employees directly involved in the project were very professional at all levels, and it was a pleasure to partner with them. The same could be said for the employees of their subcontractor, Gator Boring & Trenching, Inc. (Pensacola, FL). Gator Boring & Trenching, Inc. performed the project's highlight in terms of utility

construction. Their role was to install approximately 1,100 LF of McWane Ductile 36" TR Flex® restrained Ductile iron pipe by the horizontal directional drilling method. This pipeline segment is located just east of I-75 (Exit 246). It is installed running east along the southern edge of CR 672 (Big Bend Road). Throughout the project, both Skanska USA Civil Southeast Inc. and Gator Boring & Trenching, Inc. took full advantage of the learning opportunities and job site training that McWane Ductile offers free of charge to any customer. During these in-person sessions and conference calls, our experienced staff shared various installation methods and tips based on the application.

As mentioned, the project's overall scope includes various drainage and utility adjustments, additional lanes, and other roadwork associated with expanding the interchange to accommodate recent and future growth in the area. The utility relocation package required a lot of planning, communication, skill and teamwork. The project's construction cost was estimated at nearly \$82 million and is scheduled to be completed in the summer of 2025. Although the Ductile iron package was just a small portion of the project's scope, Skanska USA Civil Southeast Inc. earned recognition as a "McWane Ductile Million Dollar Customer" in 2022.

PROJECT PROFILE
South





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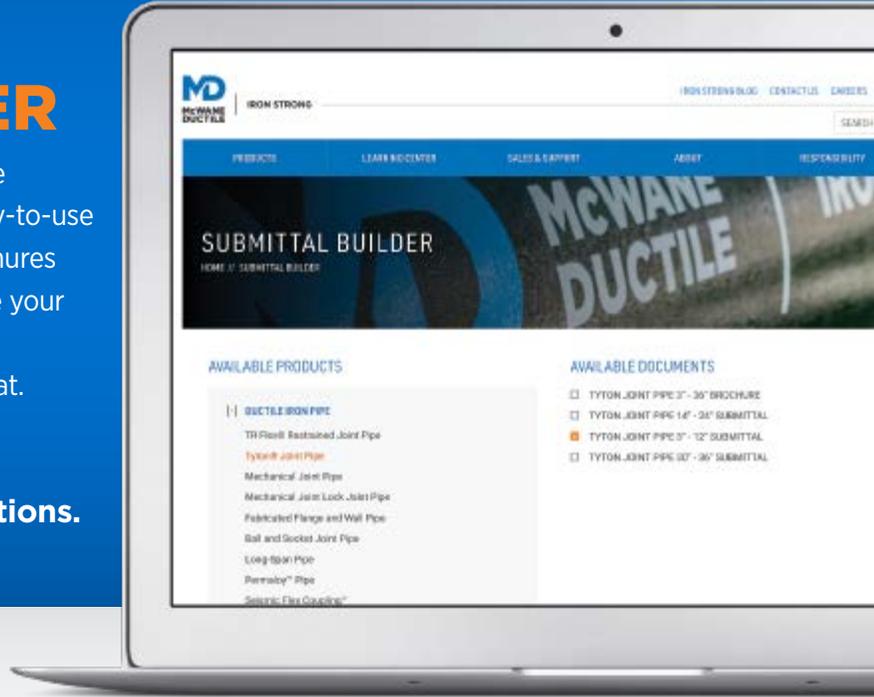
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