



www.madisonwater.org • 119 East Olin Avenue • Madison, WI 53713-1431 • TEL 608.266.4651 • FAX 608.266.4426

April 7th, 2025

Dear Water Utility Customer:

Madison Water Utility (MWU) is committed to delivering innovative and environmentally-friendly solutions to improve water service, water quality and fire protection throughout our system. This requires continual investment in our distribution system. In the coming months, one of these distribution system improvements is proposed to take place in your neighborhood and we want to provide you with some information regarding the proposed project.

This project will utilize structural cured-in-place pipe (CIPP) lining methods. The CIPP process allows a new pipe to be constructed inside of the existing deteriorated pipe, with minimal excavation in the street. The structural liner is designed to meet the physical strength properties of a new pipe. The contractor that is awarded the contract for this work will be working on-site along with Madison Water Utility crews.

This area was selected primarily because of the history of water main breaks. During construction, the existing water main must be taken out of service. Affected customers will be provided water service through an above-ground, temporary drinking water system. The temporary system is disinfected, sampled and tested using the same procedures as all City of Madison water pipe installations. Driveway and roadway crossings of the bypass system will be ramped or buried to maintain vehicular access and traffic flow during construction. While being served on the bypass system, affected properties could have their existing water meter removed and then reinstalled once the rehabilitation is complete. Any such meter work will require the contractor to make appointments for entering a property/home, just as MWU does for its own water meter work. More detailed information regarding the temporary water system and associated water meter work will be distributed closer to the start of construction activity.

Water Utility staff will survey outside hose connections after houses are restored to the lined water main. These surveys will be used to confirm that proper backflow protection is in place.

In order to ensure a safe and efficient working environment, street parking within these areas will be prohibited during the project, and there will be short-term, off-peak closures to through traffic.

Construction is proposed to begin in June and be completed by September. **There will not be any special assessments associated with this water main rehabilitation.** Please see the reverse side of this letter for more information regarding this upcoming work in your neighborhood.

If you need any accommodations, would like more information, or have any additional questions/comments regarding this project, please feel free to contact me directly by phone or email below.

Sincerely,
Ryan Newman
Madison Water Utility Project Manager

cc (email only): Alder Figueroa Cole – Madison Alder District 10
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(SEE REVERSE)

MWU will be seeking bids to rehabilitate existing water mains in 2025. The mains will be rehabilitated using structural cured-in-place pipe (CIPP) lining methods. The structural CIPP liner is a new structurally-sound pipe constructed inside of the existing deteriorated pipe with minimal excavation and disturbance at the surface compared to typical open-trench utility construction projects. Please see the following FAQ for more information on the upcoming project.

Why not install new water mains instead of rehabilitating the existing ones?

- CIPP is one of the most cost effective and expedient options for rehabilitating water mains, when compared to traditional open trench construction. This technology also lessens the impact on residents, by reducing excavation and overall construction duration. CIPP also becomes a viable alternative in other cases such as socially or environmentally sensitive areas.

Is CIPP as good as traditional pipe replacement materials?

- The structural CIPP pipe meets the WI-DNR's physical requirements for new pipes. The CIPP design calculations are prepared by a Professional Engineer and submitted to WI-DNR for review and approval prior to beginning construction. The CIPP liner pipe is designed to withstand a constant working pressure of at least 100-psi for at least 50-years, with a factor of safety of 2.5. The calculations are to assume the CIPP liner as a stand-alone pipe, not relying on any remaining integrity of the deteriorated "host pipe".

What is involved in CIPP process?

- The pipe itself consists of two polyester layers and a durable water-tight surface layer. The polyester tubes are filled with a liquid epoxy resin. The resin-saturated tube is installed inside the existing water main between two small excavations at each end of the pipe segment. The tube is pressurized to form tightly against the existing pipe-walls, and heat is then applied to solidify the resin as a new continuous pipe.
- After the pipe is installed, service connections are reinstated from within the pipeline using a small robotic drilling system. The CIPP project will be subjected to the same water pressure and water quality testing requirements as any other new water main.

Are CIPP systems safe for drinking water?

- All CIPP systems for use in drinking water systems must be certified by the National Sanitation Foundation (NSF) "Standard 61: Drinking Water System Components – Health Effects", which is the standard required by the Wisconsin Department of Natural Resources. The NSF 61 standard tests for the presence of regulated substances set by the Environmental Protection Agency (EPA) Safe Drinking Water Act, and to be certified no substance may exceed 10% of the EPA's maximum contaminant level.

Will I still have water service during construction?

- Before construction begins, customers will be provided constant water service through a temporary, above-ground water main. The temporary main will be constructed entirely from NSF 61 drinking water components, and will be disinfected and tested prior to providing service. The temporary main is connected to the house at an exterior hose bib. Existing water meters may need to be removed while connected to the bypass system.

What can I expect during construction?

- Construction activities are planned to begin in June and finish in September. The contractor may work between the hours of 7:00 AM and 7:00 PM, Monday through Saturday and 10:00 AM and 7:00 PM Sunday. Roads will be open with some through traffic restrictions, however there will be several excavation areas that will be fenced and well-marked. Temporary water main will be ramped or buried where it crosses street traffic, driveways and sidewalks. Madison Metro Bus services will be impacted. Please view their website to see those impacts. Street parking will be eliminated during the project.