

CIPP 2022 – Lake Mendota Dr.

General Information

MUNIS No: 14093
Contract No.: 9173
Project Engineer: Tim Pearson
Project Alder: Keith Furman (AD 19)
Project Limits: Lake Mendota Drive, Spring Harbor Drive to just East of 4900 Lake Mendota Drive

Utilities

This water pipeline rehabilitation project will use a lining technology known as structural cured-in-place pipe (CIPP), a process where a woven fabric tube is saturated with a liquid epoxy resin, pulled through the inside of the deteriorated pipe, and then inflated and cured with hot water or steam to form a new plastic pipe inside the old pipe. The rehabilitated pipes have full structural strength (more than simply a coating or lining inside the old pipe) and are expected to last at least 50 years before additional maintenance needs to be considered.

This will be Madison Water Utility's tenth year doing water main rehabilitation contracts in this manner. We have been working with the DNR through these years to develop, evaluate and refine successful specifications for this technology.

Street

The operations will include excavation pits for pipe liner entry points; segments may take several weeks to fully complete. Pipe lining trench pits will be patched with asphalt to match the existing grade, geometry, and surface level.

Traffic will be restricted for the safety of the workers and the public. This will likely involve short term, off peak closures.

Water System Impacts

During construction the existing water main will be out of service, so affected properties will be served by a temporary above-ground water main system that is installed prior to the rehab work. Ramps will be used to protect this temporary system at vehicle and pedestrian crossings. As applicable, piping at high-traffic street crossings and bus routes will be buried flush with the roadways. The temporary water main and temporary service laterals will be required to be constructed from certified potable water products, and will undergo the same disinfection and testing requirements of a standard water main prior to connection to any properties.

Costs:

Total Cost: \$ 517,000
Assessments: \$ 0
Water: \$ 467,000 (including street restore)
Engineering: \$ 50,000
City Cost: \$ 517,000

Schedule:

Advertise for Bids: May 2022
Construction Start: July 2022
Construction End: November 2022
