



CITY OF MANITOWOC

WISCONSIN, USA

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MEMO

TO: Public Infrastructure Committee
FROM: Greg Minikel, PE, Engineering Division Manager
DATE: July 31, 2023
RE: Request for Re-Lining Storm Sewer at N. 5th & Pine St.

Members of the Public Infrastructure Committee:

This issue came to light a few years ago when there was severe flooding at N. 5th and Pine St. and was part of the recent flood study that was completed by Strand Associates. There is an existing 12-inch CMP storm sewer pipe that runs from the manhole near the pedestrian way (between N. 5th St. and Shorewood Blvd./Fenway Terr.) and it picks-up or catches stormwater from the low area north of this property. The existing storm sewer runs under a portion of the attached garage and the home at 955 N. 5th St. The existing sewer was apparently approved by the City in the early 1970's as part of the subdivision development. It is on our mapping system and the City has been maintaining this storm sewer since its installation.

We have televised the pipe on two separate occasions in the past few years. There is a dip in the pipe where the camera is underwater. That is why we televised it twice. The 2nd time we attempted to draw down the water to get a better video. It was better, but some portions of the pipe were still under water. Anyway, it appears that the pipe is in fair condition. That being said, we know that CMP will eventually deteriorate and rust out. Since, the pipe runs under the garage and home, we feel it is in the best interest of the City, the property owner, and a good insurance policy to assure that this pipe remains in a good condition so that it does not undermine the structure.

The current property owner, Joe Euclide, has been very cooperative and may participate in a cost share with the City for the re-lining. He may be willing to contribute \$2,500 to \$5,000 to make sure that something is done to remedy this situation.

He is also willing to grant a new easement to install a new storm sewer pipe that would not be under the structures. I would agree that this would be the best long term solution, however, I believe that the cost to install a new pipe would be significantly more than the re-lining cost. Another challenge with relocating the pipe is that there is not a lot of working room in this area to install a new storm sewer pipe. A pipe could be directionally bored and that would increase the cost as well.

The cost to re-line this pipe is about \$25,000 per quotes we received from Visu-Sewer.

We have included this project in the 2024 Capital Budget for CAWG to rate and rank.

Another alternative could be to take this project to CAWG now for an unbudgeted request in order to try to complete the work yet in 2023 if the Committee feels that this is an immediate priority.

Either way, we would recommend the PI Committee to approve the request for the City to re-line the existing storm sewer culvert pipe.