

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

Date: September 23, 2021

To: Public Infrastructure Committee

From: Greg Minikel, P.E., Engineering Division Manager

Re: Update on Flooding Issues at South 29th and Mero St. (Item #21-0800)

As requested by the Committee, we have contacted SMI about the possibility and cost to perform a feasibility study and design of a stormwater pond to be located on the eastern most portion of Halvorsen Park.

See the attached broad concept drawing and a quote from SMI for the proposed work.

The Feasibility Study has a cost of \$5,000 and the cost to design the pond is \$10,000.

In addition, we are planning to have our televising contractor, Green Bay Pipe, televise the 212 feet of existing 24-inch Corrugated Metal Pipe (CMP) that runs from South 29th St. east through the DeNoyer property. This will be add-on work to the contract that Green Bay Pipe already has with the City. They will be here in the next couple of weeks to do the work included in our fall televising project. Assuming that the televising report is favorable, we should probably reline this 24" CMP with a cured in-place pipe (CIPP). The estimated cost for the relining work is \$15,000 to \$20,000. The re-lining of this pipe will increase the capacity of the storm sewer due to the new smooth lined interior.

We have also reached out to Strand Associates who will be working on our Stormwater Planning Grant in regards to this site at S. 29th and Mero St. as well as a possible stormwater pond on Custer St. across from the Senior Center.

We are looking for a decision from the Committee if they would like staff to continue working towards implementing the design of the stormwater pond within Halvorsen Park and the Re-Lining of the existing 24-Inch pipe by DeNoyer's property. We will need direction on the funding mechanism for this work. Does the Committee want to forward this issue to CAWG and the Finance Committee for inclusion in the 2023 budget as it was not included for 2022?

Dir. of Public Infrastructure Daniel J. Koski
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Paul Steinbrecher

From: Greg Minikel <gminikel@manitowoc.org>
Sent: Thursday, September 2, 2021 3:11 PM
To: Andrew Sorenson
Cc: Paul Steinbrecher; Matt Smits; Mike Zimmer; Dan Koski; Curtis Hall; Brock Wetenkamp; Sonja Birr; Sandy Ronski
Subject: Proposed Stormwater Detention Pond on East End of Halvorsen Park
Attachments: Concept Drawing for Proposed Stormwater Pond at Halvorsen Park.pdf

Hi Andy,

The issue of flooding at S. 29th and Mero St. was discussed last night at the PI Committee meeting. There was a suggestion/recommendation to look at a stormwater pond for this area.

Due to a long history of flooding on South 29th St. and Mero Street, we are looking at the feasibility of a new stormwater pond on the east end of Halvorsen Park.

I have drafted a very rough concept plan just to get an idea of how big it could be. See attachment.

I was thinking of keeping a 30 foot buffer between the sidewalk and the start of the pond or top of pond berms.

In addition, I was looking to keep the pond berm about 40 feet east of the fence for the upper ball diamond.

It looks like the overall area is about 2 Acres. So, the pond water surface area might be on the order of 1.5 Acres.

The pond would be for flood control first. So, in order to get the largest volume of stormwater storage, a dry stormwater detention pond might be best.

However, if we could create a quality pond for the treatment of total suspended solids (TSS) that would even be better and would help us with the upcoming TMDL mandates.

I guess I am looking for 2 separate proposals from SMI.

The first one would be to determine whether or not a stormwater pond (Dry or Wet) would work at this location and how large of storm this size pond could detain. What does this cost?

Assuming a pond is feasible (dry or wet), the second proposal would be the cost to complete all survey data, detailed design of the pond and pond capacity/calculations analysis, preparation of plans and specifications, and an Engineer's Opinion of Probable Cost. What is the cost for this effort?

Please call me if you have more questions. Thanks.



SMI
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QUOTE

PROJECT: STORM POND DESIGN
 LOCATION: SO 30TH & MERO
 CLIENT: CITY OF MANITOWOC
 GREG MINIKEL
 JOB DESCRIPTION: FEASIBILITY STUDY AND STORM POND DESIGN

BILLING WILL BE BY TIME AND MATERIALS AND THE PRICE WILL BE
\$15,000.00 UNLESS THE SCOPE OF THE PROJECT IS CHANGED
 BY THE CLIENT AND ACKNOWLEDGED BY THE ENGINEER/SURVEYOR
 IN WRITING.

ESTIMATED COMPLETION DATE: 2 WEEKS FROM NOTICE

ITEM	AMOUNT
FEASIBILITY STUDY	\$5,000
POND DESIGN, PLANS, SPECS, COSTS , DNR SUBMITTAL (>1.0 ACRE DISTURBED) PER ATTACHED EMAIL	\$10,000

ALL REVIEW FEES TO BE PAID BY THE CLIENT EXCEPT CITY OF MANITOWOC SITEPLAN REVIEW FEE IF APPLICABLE
 ALL PROJECTS OVER \$2,000 WILL BE BILLED MONTHLY UNTIL 80% IS PAID. THE REMAINING
 20% TO BE PAID UPON COMPLETION OF THE PROJECT
 PAYMENT IN THE AMOUNT OF 50% OF THE QUOTED AMOUNT IS DUE PRIOR TO SUBMITTAL TO APPROVING AGENCIES
 QUOTE PREPARED BY: PAUL STEINBRECHER

PROPOSAL ACCEPTED BY: _____

TYPE OR PRINT NAME: _____

COMPANY: _____

DATE: _____

Terms: Net 30 days - 1-1/2% FINANCE CHARGE PER MONTH ON PAST DUE ACCOUNTS. ANNUAL PERCENTAGE RATE 18%