



TO: Mayor Shaun Sipma
Members of the City Council

FROM: Emily Huettl, PE, Assistant City Engineer

DATE: 8/19/2019

SUBJECT: **STORM SEWER DISTRICT 123 – 10TH ST SW – ENGINEERS REPORT (4393)**

I. RECOMMENDED ACTION

It is recommended that the City Council adopt the following resolutions:

1. Create Storm Sewer District 123.
2. Direct preparation of the Engineer’s Report.
3. Approve the Engineer’s Report.
4. Waive the resolution of necessity since the project is a storm sewer district listed in NDCC 40-22-01.1
5. Direct preparation of Plans and Specifications.

II. DEPARTMENT CONTACT PERSONS

Lance Meyer, City Engineer	857-4100
Emily Huettl, Assistant City Engineer	857-4100

III. DESCRIPTION

A. Background

10th Street SW from 37th Avenue to 31st Avenue SW and surrounding areas have long been identified as known storm water problem areas. 10th Street SW and much of the residential neighborhood to the west do not currently have any storm sewer inlets. Runoff is collected in the curb and gutter system which is often overwhelmed during even minor rain events. The 2015 City of Minot Storm Water Management Plan analyzed this area and provided preliminary engineering and cost estimates to address these drainage problems. This project is included in the approved capital improvements plan for 2019 design and 2020 construction.

B. Proposed Project

The preliminary design includes:

- Storm sewer extended south along 7th Street SW and 10th Street SW
- Storm sewer extend on local roads west of 10th Street SW
- Disconnect existing storm at the intersection of 10th Street SW and 31st Avenue SW so that 10th Street SW does not outlet to Puppy Dog Coulee at 7th Street SE, through the existing pipe
- Extend new pipe north in 10th Street SW to outlet to Puppy Dog Coulee at 10th Street SW

The installation of 55 storm water inlets, drain tile in low areas, and associated pipe, as well as the additional outlet into Puppy Dog Coulee to take pressure off of the 7th St SW system,

results in greatly improved conditions throughout the district area. Additionally, 10th Street SW will be reconstructed following the storm sewer installation, as it is currently in very poor condition, with constant storm water inundation contributing to its poor condition. The street reconstruction costs are not a part of the proposed storm sewer district.

This design alternative was selected over the planning level design which was completed in 2015. The planning level design was to upsize the existing infrastructure in 31st Avenue and 7th Street SW in place. By disconnecting the system, routing 10th Street SW storm sewer north to Puppy Dog Coulee, and leaving existing 31st Avenue and 7th Street SW infrastructure in place, there is a cost savings of \$400,000. Additionally, this alternative minimizes the construction in 31st Avenue SW, which is a minor arterial roadway.

A public information meeting was held on July 30, 2019. Additional detailed information, including the presentation from that meeting, can be found on the City website: <https://www.minotnd.org/685/Storm-Sewer-District-123---10th-Street-S>

C. Consultant Selection

Ackerman-Estvold was selected through an RFQ process.

IV. IMPACT:

A. Strategic Impact:

10th Street SW and surrounding areas have long been identified as known storm water problem areas and this project will address those problems.

B. Service/Delivery Impact:

During construction, traffic will be disrupted but care will be taken to maintain local access. Following construction, traffic will no longer be disrupted by flooding roads during rain events.

C. Fiscal Impact:

Project Costs

Estimated Storm Sewer Cost	\$2,600,310.19
Estimated Street Cost	\$ 934,835.00
<u>Estimated Water Cost</u>	<u>\$ 29,871.25</u>
Total	\$3,565,016.44

Project Funding

Storm Sewer Development Fund	\$1,300,155.09
Special Assessment	\$1,300,155.09
Street Improvement Fund	\$ 934,835.00
<u>Watermain Utility</u>	<u>\$ 29,871.25</u>
Total	\$3,565,016.44

The proposed project will have two main funding sources – storm sewer development funds and special assessments (10-year term) of the benefiting properties. Additionally, a portion of the roadway reconstruction will be funded through the street improvement fund for roadway reconstruction that is not a direct result of the storm sewer improvement work. The City will also fund the costs of minor water replacements through the watermain utility.

The costs above are an estimate with a 15% contingency. Actual bid prices may vary.

In 2015, in the City of Minot Storm Water Management Plan, an estimated project construction cost was developed at \$3.7 million.

V. ALTERNATIVES

Council could choose not to move forward with the project. By not moving forward, this will continue to be a storm water problem area and public safety issue.

VI. TIME CONSTRAINTS

If council authorizes the project, the project can be bid this winter so that construction can begin in early 2020.

VII. LIST OF ATTACHMENTS

- A. Engineering Report
 - 1. Map of the District
 - 2. Engineer's Opinion of Probable Cost
 - 3. Schedule
 - 4. Preliminary Assessment Roll