



**TO:** Mayor Shaun Sipma  
Members of the City Council

**FROM:** Stephen Joersz, PE, PTOE, Traffic Engineer

**DATE:** January 21, 2020

**SUBJECT:** 4511 – NDDOT URBAN ROAD PROGRAM SUBMITTAL FOR 2021-2024

**I. RECOMMENDED ACTION**

1. Recommend council approve the listed priority of projects for submittal to the NDDOT.

**II. DEPARTMENT CONTACT PERSONS**

Lance Meyer, City Engineer	857-4100
Stephen Joersz, Traffic Engineer	857-4100
Jesse Berg, Project Manager	857-4100

**III. DESCRIPTION**

A. Background

Yearly, the NDDOT requests projects funded by federal funds to be submitted for programming into the 5 year Statewide Transportation Improvement Plan (STIP). 31<sup>st</sup> Avenue SW, which will be constructed in 2020, is the last City of Minot Urban Road Project in the NDDOT STIP.

B. Proposed Project

The engineering department is proposing two projects for council consideration, and if approved will be submitted to the NDDOT by the February deadline.

Urban Road Program:

1. 16<sup>th</sup> Street SW Mill and Overlay between 24<sup>th</sup> Avenue SW and 37<sup>th</sup> Avenue SW and 37<sup>th</sup> Avenue SW Mill and Overlay between 16<sup>th</sup> Street SW and S Broadway – Priority 1

These two corridors, 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW, are in need of a resurfacing project. The corridors have not been improved since they were last reconstructed, a mill and overlay is a typical project that occurs 10-15 after a roadway reconstruction in an effort to prolong the lifespan of the roadway. Additionally, the Engineering Department is programming this improvement to be completed after a majority of the Trinity hospital construction has taken place. The intent of this is to allow a majority of the construction related truck loads to occur before the roadways are improved.

2. 16<sup>th</sup> Street SW Reconstruction between 2<sup>nd</sup> Avenue SW and 11 ½ Avenue SW – Priority 2

The 16<sup>th</sup> Street SW reconstruction will replace stretches of 16<sup>th</sup> Street SW that were impacted during the flood control construction as well as repair the W Burdick and 16<sup>th</sup> Street SW intersection that has cracked concrete panels. Storm sewer, water main

replacement, lighting, signal improvements, and pedestrian shared-use path improvements will also be incorporated within this project. The pavement will be replaced with concrete pavement.

C. Consultant Selection

Consultants will not be selected until the projects are programmed. Once programmed, an RFQ will be issued.

**IV. IMPACT:**

A. Strategic Impact:

Both 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW are on the functional classification system and are designated as minor arterials through Minot. Because of their status and the significant volumes of traffic both corridors carry, maintenance funds will always be a high priority for these corridors.

B. Service/Delivery Impact:

During construction of both projects, likely half of the road section will be completed at a time. A complete shutdown will generally not be feasible, especially for long periods.

C. Fiscal Impact:

Because the 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW corridors are on the city’s functional classification system, both corridors qualify for 80% federal/state funding. The City’s local share would be 20% of roadway construction. Additionally, storm sewer is federally eligible at a 50% federal/50% local cost share and all water main cost would be 100% covered by local funds.

The 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW mill and overlay project will be funded by General Fund Reserves/Tax Levy. Whereas the 16<sup>th</sup> Street SW reconstruction project will be in part by Water and Sewer Utility Reserves and in part by Hub City Funds. These details will be refined in the future as the projects are programmed and placed into the Capital Improvement Plan.

16th Street SW and 37<sup>th</sup> Avenue SW Mill and Overlay Project Costs

<u>Engineer’s Construction Estimate</u>	\$2,499,887.90
NDDOT Federal Cost Share (80%)	\$1,999,910.16
Local Cost Share	
20% Construction	\$ 499,977.54
<u>18% Engineering + 3% Admin</u>	<u>\$ 524,976.42</u>
Local Cost Share Total	\$1,024,953.96

Project Funding

General Fund Reserves/Tax Levy	\$1,024,953.96
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16th Street SW Reconstruction Project Costs

<u>Engineer’s Construction Estimate</u>	\$8,255,423.00
NDDOT Federal Cost Share	\$6,205,014.40
Local Cost Share	
Construction	\$2,050,408.60
<u>15% Engineering + 3% Admin</u>	<u>\$1,125,739.50</u>
Local Cost Share Total	\$3,176,148.10

Project Funding

Water & Sewer – Water/Sewer Utility Reserves	\$ 530,010.00
Roadway, Signals & Lighting – Hub City Funds	\$2,646,138.10

**V. ALTERNATIVES**

Alt 1. Council can choose to delay programming of these corridors. However, both the mill and overlay of 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW and the reconstruction of 16<sup>th</sup> Street SW are much needed maintenance projects.

**VI. TIME CONSTRAINTS**

The NDDOT programming deadline is January 31<sup>st</sup>, 2020. Council needs to take action at the January 21<sup>st</sup>, 2020 meeting to allow staff time to complete the applications and send to the NDDOT.

**VII. LIST OF ATTACHMENTS**

- A. 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW Mill and Overlay Exhibit
- B. 16<sup>th</sup> Street SW and 37<sup>th</sup> Avenue SW Mill and Overlay Cost Estimate
- C. 16<sup>th</sup> Street SW Reconstruction Exhibit
- D. 16<sup>th</sup> Street SW Reconstruction Cost Estimate