

## EXECUTIVE SUMMARY

**DATE:** December 7, 2020

**TITLE:** 5 Year Capital Plan and 2021 Capital Roadway Improvements

**BACKGROUND:** Using the PASER pavement rating system projects have been identified for 2021 through 2025. The five-year capital plan is revised and approved each year to adjust for levels of funding, unanticipated deterioration of specific roadways, coordination with Sturgeon Bay Utilities, and other issues that warrant the delay or acceleration of various planned roadway projects. For 2021 the proposed capital roadway improvement projects include:

- 1) S Neenah Ave (from 300' south of E Maple Street to E Yew Street): Combination mill & pave and mill & overlay. This project has been pushed back for several years now due to coordination efforts with ATC (for their project that is currently in progress to replace the high transmission power lines that run underneath the bay). The portion of their project that has affected S Neenah Ave will be wrapping up shortly, and we will be able to begin the reconstruction of this roadway in the Spring of 2021. While it has been painful to see this project delayed, one benefit of the delay was that this project was originally planned to stop at HWY 42/57. However, in March the City received a grant that will allow this project to continue on to E Yew Street. In March or April WPS will begin replacing the gas infrastructure within the project areas as well. The remainder of the work is anticipated to start in April or May. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing & sidewalks, and replacement of the pavement. The majority of the project will be a full depth mill & pave project, which means that all of the existing asphalt will be removed down to the existing gravel base and replaced full depth. However, two portions of S Neenah Ave between E Maple Street and S Oxford Ave are in decent shape and will be a mill & overlay, which means that only the top 1-1/2" of asphalt will be removed and replaced. This will allow for a consistent crown and profile of the street when completed, and extend the life of these previously replaced areas.
- 2) Memorial Drive (from S 3<sup>rd</sup> Ave to S 9<sup>th</sup> Ave) and S 9<sup>th</sup> Ave (from Memorial Drive to Texas Street): Mill & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, spot replacement of the curbing & sidewalks, and replacement of the pavement.
- 3) N 18<sup>th</sup> Ave (from Michigan Street to Iowa Street): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
- 4) Alabama Street (from N 15<sup>th</sup> Place to N 18<sup>th</sup> Ave): Pulverize & pave. This project will include manhole and water valve adjustments, misc. storm sewer repairs, replacement of the pavement, and gravel shouldering.
- 5) Florida Street (from N 8<sup>th</sup> Ave to N 6<sup>th</sup> Place), N 7<sup>th</sup> Ave (from Florida Street to Georgia Street), and N 6<sup>th</sup> Place (from Florida Street to Erie Street): Mill & overlay. This project will include manhole and water valve adjustments along with the replacement of the top 1-1/2" of pavement. These three roadway segments have inverted crowns and a concrete roadway beneath the current asphalt surfaces. It would be ideal to reconstruct these roadways to remove the inverted crowns but the adjacent properties are not graded to accept roadway water, and the cost to remove the concrete below and install a new gravel base would be very cost prohibitive. Therefore, it is being proposed to essentially "replace in kind".

- 6) N 6<sup>th</sup> Ave (from Delaware Street to Belmar Street) and Belmar Street (from N 6<sup>th</sup> Ave to N 5<sup>th</sup> Ave): Mill & pave. This project will include manhole and water valve adjustments, spot replacement of the curbing, and replacement of the pavement.
- 7) Alabama Street (from N 3<sup>rd</sup> Ave to N 5<sup>th</sup> Ave) and N 4<sup>th</sup> Ave (from Alabama Street to 525' south of Alabama Street): Pulverize & pave. This project will include manhole and water valve adjustments, replacement of the pavement, and gravel shouldering. In addition, a concrete spillway will be added at the intersection of Alabama Street and N 3<sup>rd</sup> Ave to prevent the ponding that currently occurs at that intersection.
- 8) Intersection improvements at S 18<sup>th</sup> Place & Memorial Drive: There is very little pitch (from west to east) across S 18<sup>th</sup> Place, and the properties on the west side of the roadway have natural springs that have been running continuous for the past several years. The springs cause water to run down the west side of the roadway, and with no catch basins to collect the water and very little pitch across the intersection it causes significant ice buildup in the winter. In addition, removal of the ice has caused significant damages to the concrete spillway, thus creating a hazardous condition for bicyclists and other pedestrians. Therefore, an additional storm sewer inlet will be added to the west side of S 18<sup>th</sup> Place. This will allow for the capture of the spring water so that the intersection can be repaired, and so that less water will need to cross that intersection in the winter.

**FISCAL IMPACT:** The proposed 2021 capital roadway improvement projects are expected to use approximately \$983,476.00 of the \$991,075.00 budgeted. Therefore, if the bids come in favorably all of the projects should be able to be completed as proposed. If not, modifications to the plan may be needed in order to stay within the overall 2021 capital roadway improvement budgets.

**RECOMMENDATION:** Staff recommends approval of the five-year capital plan, including the authorization for the preparation of bid documents for the 2021 capital roadway improvement projects as described above.

**SUBMITTED BY:** \_\_\_\_\_ Date: \_\_\_\_\_  
 Chad Shefchik, City Engineer

**REVIEWED BY:** \_\_\_\_\_ Date: \_\_\_\_\_  
 Marty Olejniczak, Community Development Director

**REVIEWED BY:** \_\_\_\_\_ Date: \_\_\_\_\_  
 Joshua VanLieshout, City Administrator