



**CITY OF STURGEON BAY BOARD OF PUBLIC WORKS AGENDA
TUESDAY, JANUARY 15, 2019
6:30 P.M.
COUNCIL CHAMBERS, CITY HALL – 421 MICHIGAN ST
KELLY CATAROZOLI, CHAIRPERSON**

1. Call to order.
2. Roll call.
3. Adoption of agenda.
4. Consideration of: Approval of Five Year Capital Plan and 2019 Roadway Improvements.
5. Adjourn.

NOTE: DEVIATION FROM THE AGENDA ORDER SHOWN MAY OCCUR.

Posted:

Date: 1-11-19

Time: 12:00 pm

By: CM

EXECUTIVE SUMMARY

DATE: January 9, 2019

TITLE: 5 Year Capital Plan and 2019 Capital Roadway Improvements

BACKGROUND: Using the PASER Rating System projects have been identified for 2019 through 2023. The five year capital plan is revised and approved each year to adjust for levels of funding, unanticipated deterioration of specific roadways, coordination with SB Utilities, and other issues that warrant the delay or acceleration of various planned roadway projects. For 2019 the proposed capital roadway improvement projects include:

- 1) Georgia Street (from N 3rd Ave to N 4th Ave): Full reconstruction of the roadway. This roadway will have minimal changes but the project will include all new pavement, curbing, sidewalks, and replacement of the sanitary sewer & water mains.
- 2) Georgia Street (from N 4th Ave to N 5th Ave): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing & sidewalks.
- 3) Georgia Street (from N 5th Ave to 580' east of N 5th Ave): Full reconstruction of the roadway. This roadway will have minimal changes but the project will include all new pavement, curbing, sidewalks on the south / east sides of the roadway, and replacement of the sanitary sewer & water mains. The sidewalks on the north / west sides of the roadway were replaced in 2018 by WPS and will remain in place.
- 4) Georgia Street (from 580' east of N 5th Ave to N 8th Ave): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing & sidewalks. In addition, the sidewalk on the west side of N 7th Ave will be extended from its current termination point to Georgia Street. Typically the City has assessed the abutting property Owners for the cost of new sidewalks while the City pays for the remainder of the restoration work to complete the project. The 2019 Capital Roadway Improvements include an estimated special assessment of \$3,414.30. This special assessment would be applied to 1 parcel.
- 5) N 3rd Ave (from Delaware Street to Alabama Street): Mill & pave. On this roadway segment the east curb line was installed with very little pitch resulting in poor drainage that contributed to the deterioration of the roadway. Therefore, the majority of the east curb line will be replaced and 2 new storm sewer inlets & crossings will be added that will drain water to the lawn area on the west side of the roadway. The additional storm sewer work will change the pitch of the curb line enough that rebasing of the roadway at these areas will also be required. Also, the storm sewer on the west side of N 3rd Ave near Delaware Street will be modified to direct more storm sewer water to the engineered wetlands in Sunset Park. The remainder of the project will include replacement of the pavement and spot replacement of the remaining curbing.
- 6) Alabama Street (from N 3rd Ave to 250' west of N 3rd Ave): Mill & pave. This project will include replacement of the pavement and the removal of the "island" at N 3rd Ave to create a more traditional intersection.
- 7) E Pine Street (from S Madison Ave to S Neenah Ave): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing & sidewalks.
- 8) S Kendale Ave (from W Pine Street to Termination): Full reconstruction of the roadway. This project will include all new pavement, curbing, and replacement of the water main. In addition, the roadway width (from face of curb to face of curb) will be reduced by 2'-0" from 33'-0" to 31'-0". This reduction in roadway width was required to reduce the cross slope of the roadway cross section and reduce the roadway pitch at the cul-de-sac on the end of the street. These changes will improve the roadway safety and allow for easier snow removal.

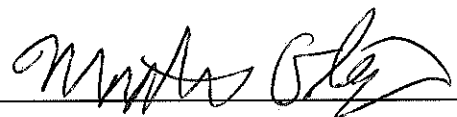
- 9) W Elm Street (from N Hudson Ave to N Duluth Ave): Mill & pave. This project will include replacement of the pavement and spot replacement of the curbing.
- 10) Sidewalk addition on the north side of Florida Street from N 7th Ave to the new development being constructed on the Amity Field site: The approved development currently under construction includes a sidewalk along Florida Street. This sidewalk addition will tie the sidewalk for the development to the sidewalks at N 7th Ave. The cost for this project will be billed to TID #3 (Note: the budget for TID #3 includes money for the proposed sidewalk addition).

FISCAL IMPACT: The proposed 2019 capital roadway improvements are expected to use approximately \$791,842.00 of the \$793,257.00 budgeted for the 2019 capital roadway improvements. 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 2019 capital roadway improvement budgets.

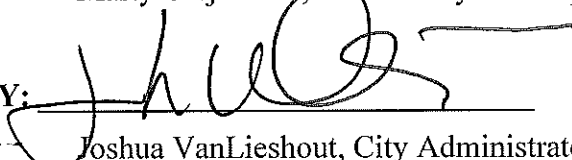
RECOMMENDATION: Staff recommends approval of the five year capital plan including the authorization for the preparation of bid documents for the 2019 capital roadway improvement projects as described above.

SUBMITTED BY: 
Chad Shefchik, City Engineer

Date: 1-9-19

REVIEWED BY: 
Marty Olejniczak, Community Development Director

Date: 1-9-2019

REVIEWED BY: 
Joshua VanLieshout, City Administrator

Date: Jan 9, 2019

Asphalt pavement distress

PASER uses visual inspection to evaluate pavement surface conditions. The key to a useful evaluation is identifying different types of pavement distress and linking them to a cause. Understanding the cause for current conditions is extremely important in selecting an appropriate maintenance or rehabilitation technique.

There are four major categories of common asphalt pavement surface distress:

Surface defects

Raveling, flushing, polishing.

Surface deformation

Rutting, distortion—rippling and shoving, settling, frost heave.

Cracks

Transverse, reflection, slippage, longitudinal, block, and alligator cracks.

Patches and potholes

Deterioration has two general causes: environmental due to weathering and aging, and structural caused by repeated traffic loadings.

Obviously, most pavement deterioration results from both environmental and structural causes. However, it is important to try to distinguish between the two in order to select the most effective rehabilitation techniques.

The rate at which pavement deteriorates depends on its environment, traffic loading conditions, original construction quality, and interim maintenance procedures. Poor quality materials or poor construction procedures can significantly reduce the life of a pavement. As a result, two pavements constructed at the same time may have significantly different lives, or certain portions of a pavement may deteriorate more rapidly than others. On the other hand, timely and effective maintenance can extend a pavement's life. Crack sealing and seal coating can reduce the effect of moisture in aging of asphalt pavement.

With all of these variables, it is easy to see why pavements deteriorate at various rates and why we find them in various stages of disrepair. Recognizing defects and understanding their causes helps us rate pavement condition and select cost-effective repairs. The pavement defects shown on the following pages provide a background for this process.

Periodic inspection is necessary to provide current and useful evaluation data. It is recommended that PASER ratings be updated every two years, and an annual update is even better.

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Year	Street Name	Start	End	2013		2015		2017	
				Paser	Rating	Paser	Rating	Paser	Rating
				Improvement Type					
				Notes					
2021	E Walnut Place	E Walnut Drive	S Tomahawk Ave	5	4	4	4	4	Mill & Pave
2021	Circle Ridge Place	S Ridgeway Drive	Quarter Deck Lane				3		Mill & Pave
2021	S Ridgeway Drive	E Binnacle Place	Termination				5		Mill & Pave
2021	S Ridgeway Ave	E Binnacle Place	Termination				5		Mill & Pave
2021	S Fulton Ave & W Spruce Place	W Spruce Drive	S Geneva Ave				5		Mill & Pave
2021	S Baraboo Ave	W Maple Street	W Oak Street				5		Mill & Pave
2021	Louisiana Street	N 4th Ave	N 5th Ave				5		Mill & Pave
2021	Alabama Street	N 3rd Ave	N 4th Ave				3		Mill & Pave
2021	Alabama Street	N 4rd Ave	N 5th Ave				3		Mill & Pave
2021	N 4th Ave	Alabama Street	490' South	4	4	4	3		Mill & Pave
2021	N 6th Ave	Delaware Street	Belmar Street	4	4	4	4		Mill & Pave
2021	Belmar Street	N 5th Ave	N 6th Ave			5	5		Mill & Pave
2021	Bluebird Street	N 12th Place	N 14th Ave				5		Mill & Pave
2021	N 12th Place	Bluebird Street	700' North of Bluebird Street				5		Mill & Pave
2021	N 10th Place	Louisiana Street	N 11th Place				6		Mill & Pave
2021	Huron Street	N 14th Place	N 15th Place				3		Mill & Pave
									Total Expenses - All Proposed Projects
									\$783,066
									\$785,000
									Total Capital Roadway Improvement Available Budgets

