



## **Agenda**

### **Work Session**

20 Second Avenue SW, Oelwein

5:30 PM

January 17, 2022

Oelwein, Iowa

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**Mayor:** Brett DeVore

**Mayor Pro Tem:** Lynda Payne

**Council Members:** Karen Seeders, Tom Stewart, Matt Weber, Dave Garrigus, Dave Lenz

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### **Pledge of Allegiance**

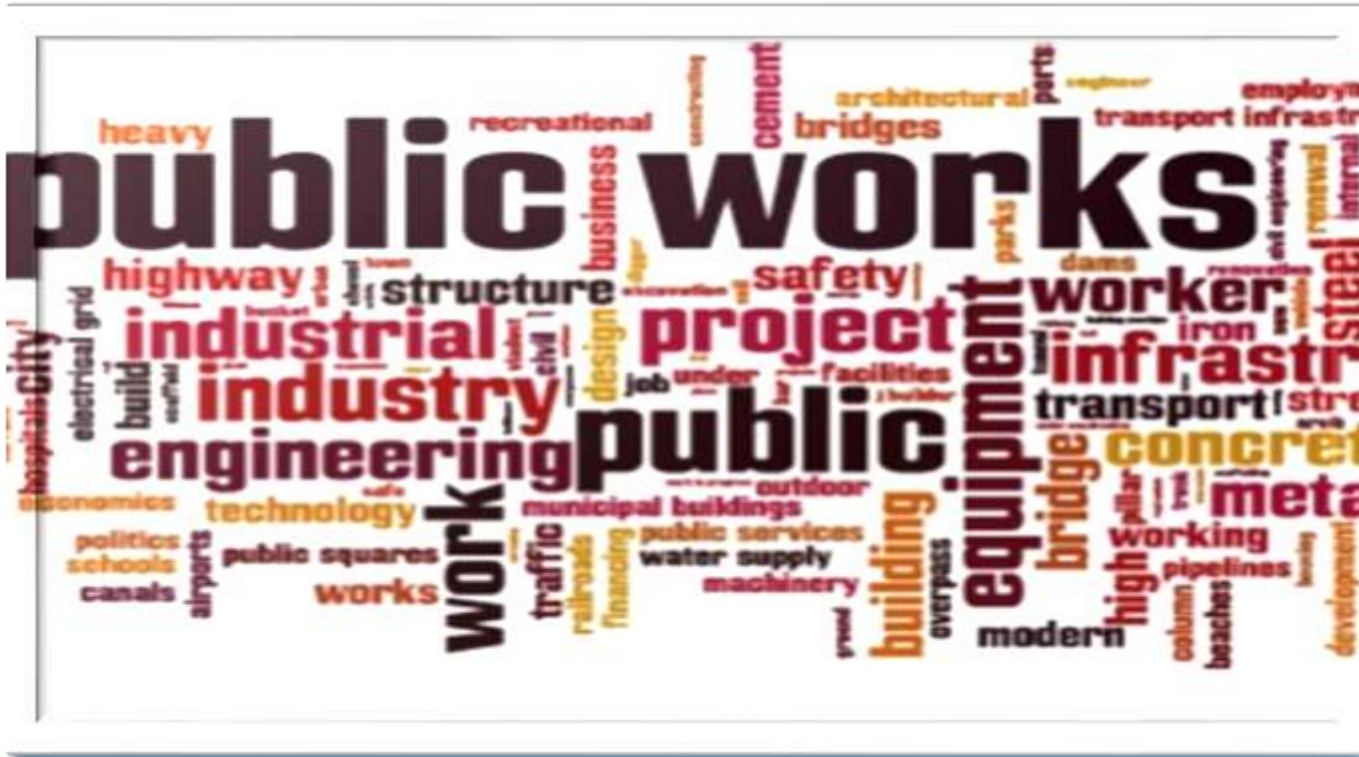
### **Discussions**

- [1.](#) Discussion of proposed Streets, Water, and Sewer/Wastewater budget

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### **Adjournment**

In compliance with the Americans with Disabilities Act, those requiring accommodation for Council meetings should notify the City Clerk's Office at least 24 hours prior to the meeting at 319-283-5440



# Departmental Project Review

Item 1.

## Water:

- \*#42 well rehabilitation & #80 well CL2 conversation
- \*Currently evaluating east tower paint system
- \*West Tower paint system project nearing completion
- \*Water Main Replacements ongoing

## Wastewater Facility:

- \*Compiled sludge storage study
- \*UV light rehab
- \*Industry Pretreatment agreement with DNR guidelines for Transco, DCW, City Laundry, & Ashley Molding
- \*SCADA system upgrade

## Equipment upgrades:

- \*Loader, Bobcat, Breaker, John Deere land plane, dump trucks, pickups, spray patcher, sweeper,
- \*Rehabilitate 570 grader

## Other Departments & Public:

- \*Update City radios, Wings School project & High school project discussion
- \*Previous trailer court ideas, Kwik Star meetings, Prison home assistance
- \*Library electric fuel site. City Hall electric & plumbing work.
- \*Website & Phone system research / upgrade

## Large Events effecting departments:

- \*We have had to clean up from several wind events, 2 tornados and 2 floods, plus working through a winter with severe frost depths.
- \*There have been several retirements and staff leaving city employment and a Pandemic!

*This has and continues to slow everything!*

## Sanitary sewer collections:

- \*1<sup>st</sup> Ave lift station
- \*4<sup>th</sup> Ave NE sanitary project looking at funding

## Policy updates:

- \*Snow policy, City Policy
- \*Review code sections, On Call

## Street:

- \*Upgraded all 5-traffic light cross walks; currently upgrading traffic signal controls – 3 of 5 completed.
- \*Removed failed portion of the Viaduct and discussing future rehab work
- \*Seal coated several Frost Boil areas, most recently completed West Charles & 10th street NW
- \*Completed full scale evaluation of city roads
- \*Graded and rocked shoulders, gravel roads and alleys
- \*Completed asphaltting of 12<sup>th</sup> Ave SE by Jr. High area
- \*Completed asphaltting Wings East, Outer Road & portion of 6th St. NE
- \*Completed construction of 14<sup>th</sup> St. SE & finish 10<sup>th</sup> St. SE to East Line Rd.
- \*Completed Street department rehab & building addition
- \*Worked with railroad to exempt and remove crossings
- \*Repaired storm culvert damage areas and road failure on South Frederick near City Park
- \*Working on ditches throughout city, currently in the NW
- \*Working on street sign upgrades
- \*Updating both City Fuel sites - Airport & City
- \*Setup paint striping information for streets parking, center lines, lots and crosswalks
- \*Preliminary Bridge Study completed and currently researching funding options
- \*New Dollar General area and one way traffic flow changes
- \*220 plus ash trees and stumps removed of the approx. 350 total to be removed
- \*Hauled roughly 350 loads of tree grindings to various locations

# 2022 PUBLIC WORKS STAFF

**Vic Kane** - 40-year employee - 23 years as Superintendent.

\*Is a (CPM) Certified Public Manager from Drake University

Item 1.

\*Carries a Grade 4 Wastewater\*Grade 4 Water Distribution certification

\*Grade 3 Water Treatment \*Class A (CDL) commercial driver's license

**Herb Doudney** - 22-year employee - 17 years as Lead Operator.

\*Currently in the Drake CPM program

\*Carries a Grade 2 Wastewater Certification

\*Class B CDL

**Steve Cherrier** - 22-year employee.

\*Carries a Grade 2 Water Treatment Certification

\*Class B CDL

**James Spence** - 11-year employee.

\*Class A CDL

**Matt Rogers** - 10-year employee.

\*Carries a Grade 1 Water Distribution Certification

\*Associate Degree (AA) Computer Info Systems

\*Grade 2 Wastewater Certification

\*Class B CDL

**Jason Lumbus** - 6-year employee.

\*Carries a Grade 1 Water Treatment Certification

\*Class B CDL

**Josh Loban** - 5-year employee.

\*Carries a Grade 2 Water Distribution Certification

\*Class B CDL

\* State Licensed Journeyman Plumber

**Shawn Kuennen** - 4-year employee.

\*Class B CDL

**Jerrold Rechkemmer** - 3-year employee.

\*Carries a Grade 1 Water Distribution Certification

\*Class A CDL

**Laura Holmes** - under 1-year employee.

\*Carries a Masters in Business Administration (MBA)

\* Bachelors Degree in Science (BS)

\*Associate Degree in Accounting (AA)

**Jay Perkins** - under 1-year employee.

\*Reserve Police Officer

▪ [Open Position - Wastewater Treatment Operator](#)



# Street budget 2023

	FY 2023	
	2022	Proposed 6/30/2023
110-2100-60100 Salary	245,000	258,000.00
110-2100-61990 Employee Personnel Expense	2,500	2,500.00
110-2100-63100 Building	2,000	2,000.00
110-2100-63200 Snow Supplies	13,000	15,000.00
110-2100-63310 Vehicle	15,000	15,000.00
110-2100-63730 Communications	2,200	2,300.00
110-2100-63810 Utilities	9,000	9,000.00
110-2100-64900 GIS	4,500	3,500.00
110-2100-64950 Contracts	15,000	15,000.00
110-2100-65041 Equipment	40,000	40,000.00
110-2100-65060 Office Supplies	600	700.00
110-2100-65070 Supplies	80,000	100,000.00
110-2100-67611 Curb Replacement system	2,000	2,000.00
110-2100-67612 Fay Co Outer Rd & Q Ave Pmt	40,915	40,915.00
110-2100-67614 Street Signs	5,000	10,000.00
110-2100-67990 <u>Capital Outlay</u>	<u>520,000</u>	<u>68,000.00</u>
<b>STREETS Total</b>	<b>996,715.00</b>	<b>583,915.00</b>

## Street Lights budget 2023

			FY 2022	FY 2023 Proposed 6/30/2023
			2022	6/30/2023
110-2300-60100	Salary		500.00	500.00
110-2300-63810	Utilities		100,700.00	107,000.00
110-2300-64950	Contracts		1,500.00	1,500.00
110-2300-65041	Equipment		700.00	10,000.00
		<b>STREET LIGHTS Total</b>	<b>103,400.00</b>	<b>119,000.00</b>

Item 1.

## Traffic Safety budget 2023

			FY 2022	FY 2023 Proposed 6/30/2023
			2022	6/30/2023
110-2400-60100	Salary		500.00	500.00
110-2400-63810	Utilities		300.00	3,000.00
110-2400-64950	Contracts		8,000.00	1,000.00
110-2400-65041	Equipment		1,000.00	0.00
		<b>TRAFFIC SAFETY Total</b>	<b>9,800.00</b>	<b>4,500.00</b>

## Street Sweeping budget 2023

			FY 2022	FY 2023 Proposed 6/30/2023
			2022	6/30/2023
110-2700-60100	Salary		13,000.00	13,500.00
110-2700-61990	Empl Pers. Exp		0.00	0.00
110-2700-65041	Equipment		0.00	2,500.00
		<b>STREET SWEEPING Total</b>	<b>13,000.00</b>	<b>16,000.00</b>

# Street CIP 2023

									Item 1.
									TOTAL
Street	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Traffic Lights	Done 2020		\$45,000.00	\$45,000.00					\$90,000.00
Street Replacements			\$300,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$800,000.00
Sealcoat			\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$300,000.00
Replace S14			\$10,000.00						\$10,000.00
Bridge Replacement	10th St Bridge	2023 Plan		\$3,500,000.00					\$3,500,000.00
Bridge Design			\$306,000.00						\$0.00
Viaduct									\$0.00
6th St NE	Upper Exp. Land		\$117,000.00						\$117,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$828,000.00</b>	<b>\$3,695,000.00</b>	<b>\$150,000.00</b>	<b>\$150,000.00</b>	<b>\$150,000.00</b>	<b>\$150,000.00</b>	<b>\$4,817,000.00</b>

# ROW / Fuel fund CIP 2023

									TOTAL
ROW Tree Utility	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Grinding contract			\$27,000.00	\$32,000.00	\$32,000.00	\$32,000.00	\$32,000.00		\$155,000.00
Stump grinding			\$6,500.00	\$6,500.00	\$6,500.00	\$6,500.00	\$3,500.00		\$29,500.00
Tree Trim/Remove			\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$15,000.00		\$115,000.00
Extra Tree Grinding	Storm event		\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00		\$75,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$73,500.00</b>	<b>\$78,500.00</b>	<b>\$78,500.00</b>	<b>\$78,500.00</b>	<b>\$65,500.00</b>	<b>\$0.00</b>	<b>\$374,500.00</b>

									TOTAL
Fuel Fund	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Fuel Card System			\$50,000.00						\$50,000.00
Above Ground Tanks				\$200,000.00					\$200,000.00
Remove old tanks				\$10,000					\$10,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$50,000.00</b>	<b>\$210,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$260,000.00</b>



# Water budget 2023

Item 1.

			FY 2023
			Proposed
		2022	6/30/2023
600-8100-60100	Salary	238,445	250,367.00
600-8100-61990	Employee Personnel Expense	2,000	2,000.00
600-8100-63100	Building	2,500	2,500.00
600-8100-63310	Vehicle	4,400	4,400.00
600-8100-63730	Communications	3,300	3,800.00
600-8100-63810	Utilities	101,000	103,000.00
600-8100-64900	GIS	2,500	2,500.00
600-8100-64920	One Call	485	485.00
600-8100-64950	Contracts	6,000	5,000.00
600-8100-65041	Equipment	7,800	15,000.00
600-8100-65060	Office Supplies	800	800.00
600-8100-65070	Supplies	77,000	79,310.00
600-8100-67850	Meter System	22,000	12,000.00
600-8100-67990	Capital Outlay	50,000	50,000.00
<b>WATER Total</b>		<b>518,230</b>	<b>576,269.00</b>

# Water CIP 2023

Item 1.

									TOTAL
<b>Water</b>	<b>Project Number</b>		<b>FY 2023</b>	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Replace W-2	600-8100-67990		<b>\$45,000</b>						\$45,000.00
Water Main replace	601-8140-67850		<b>\$200,000.00</b>	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,200,000.00
Develop New Well								\$1,200,000.00	\$1,200,000.00
Rehab #59 Well 6 yrs.	Done 2018			\$55,000.00					\$55,000.00
Rehab #42 Well 6 yrs.	Done 2019				\$55,000.00				\$55,000.00
East Tower						\$250,000.00			\$250,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$245,000.00</b>	\$255,000.00	\$255,000.00	\$450,000.00	\$200,000.00	\$1,400,000.00	\$2,805,000.00

# Water - Future

<b>Water -</b>	<b>Project Number</b>	<b>FY 2023</b>	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Replace Backhoe			\$150,000.00					\$150,000.00
West Tower 20 yrs.	Done 2021							\$0.00
Paint East Tower 20 yrs.	Done 2006				\$250,000.00			\$250,000.00
Rehab #59 Well 6 yrs.	Done 2018		\$55,000.00					\$55,000.00
Rehab #80 Well 6 yrs.	Done 2016							\$0.00
Rehab #42 Well 6 yrs.	Done 2019			\$55,000.00				\$55,000.00
Scada Upgrade 7 yrs.	Done 2020							\$0.00
GenSet #59	Done 2010							\$0.00
GenSet #42	NEW 2019							\$0.00
Booster Pumps 1&2	New 2006							\$0.00
Fire Pumps 1&2	New 2006							\$0.00
<b>TOTAL FOR DEPARTMENT</b>		\$0.00	\$205,000.00	\$55,000.00	\$250,000.00	\$0.00	\$0.00	\$510,000.00

# Wastewater budget 2023

Item 1.

			FY 2023
			Proposed
		2022	6/30/2023
700-8500-60100	Salary	265,000	225,000.00
700-8500-61990	Employee Personnel Expense	2,000	2,000.00
700-8500-63100	Building	4,000	4,000.00
700-8500-63310	Vehicle	2,000	2,000.00
700-8500-63730	Communications	2,500	2,800.00
700-8500-63810	Utilities	120,000	120,000.00
700-8500-64950	Contracts	21,000	10,000.00
700-8500-65041	Equipment	45,000	45,000.00
700-8500-65060	Office Supplies	1,000	1,000.00
700-8500-65070	Supplies	50,000	50,000.00
700-8500-67990	Capital Outlay	50,000	50,000.00
	<b>WASTE TREATMENT Total</b>	<b>562,500</b>	<b>511,800.00</b>

Item 1.

									TOTAL
Sewer Line	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Sewer Main replace	1st St SW / 10 blk	701-8500-67850	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00		\$1,000,000.00
Sewer Main replace	W. Charles / 10 blk	700-8500-67990	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00		\$1,000,000.00
Manhole replacement			\$50,000.00						\$50,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$450,000.00</b>	\$400,000.00	\$400,000.00	\$400,000.00	\$400,000.00	\$0.00	\$2,050,000.00

## Wastewater - Future

Wastewater -	Project Number	FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
Aerzon Blower Rebuild	1&2							\$0.00
Aerzon Blower Rebuild	3&4							\$0.00
Aerzon Blower Rebuild	5&6							\$0.00
Clean Out SBRS 2006	1&2							\$0.00
Clean Out SBRS 2006	3&4							\$0.00
Raw Pump #1 - 10 yrs.								\$0.00
Raw Pump #2 - 10 yrs.	Done 2017							\$0.00
Raw Pump #3 - 10 yrs.	Done 2017							\$0.00
Replace 2nd GEO Unit								\$0.00
Limitorque Actuator	Done 2020							\$0.00
SCADA Upgrade - 7 yrs.	Done 2020							\$0.00
Diffusers replace 10 yrs.	Done 2019 & 20							\$0.00
Building Addition	Done 2020							\$0.00
Scada Upgrade 7 yrs.	Done 2020							\$0.00
Replace J3 Pickup	Done 2020							\$0.00
Plant GenSet - 15 yrs	2024 ?							\$0.00
Raw GenSet - 15 yrs	2006							\$0.00
Non pot #1 & #2- 6 yrs.	Done 2017							\$0.00
Sludge Pump	2006							\$0.00
Dimminutor - 5 yrs.	Done 2018			\$60,000.00				\$60,000.00
Two DO probes - 6 yrs.	Done 2018					\$9,000.00		\$9,000.00
Plant Drain pumps	????							\$0.00
<b>TOTAL FOR DEPARTMENT</b>		\$0.00	\$0.00	\$60,000.00	\$0.00	\$9,000.00	\$0.00	\$69,000.00



12

# Sewer budget 2023

Item 1.

			FY 2023
			Proposed
		2022	6/30/2023
700-8310-60100	Salary	42,000.00	45,000.00
700-8310-61990	Employee Personnel Expense	600.00	600.00
700-8310-63100	Building	500.00	500.00
700-8310-63310	Vehicle	4,000.00	3,000.00
700-8310-63810	Utilities	8,200.00	8,400.00
700-8310-64900	GIS	2,000.00	2,000.00
700-8310-64920	One Call	485.00	485.00
700-8310-64950	Contracts	5,000.00	5,000.00
700-8310-65041	Equipment	9,500.00	9,500.00
700-8310-65070	Supplies	5,200.00	5,200.00
700-8310-67850	Meter System	22,000.00	12,000.00
700-8310-67990	Capital Outlay	50,000.00	50,000.00
<b>SEWER MAINS Total</b>		<b>149,485.00</b>	<b>141,685.00</b>



# Sewer CIP

Sewer Line	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	TOTAL FY23 to FY28
Sewer Main replace	1st St SW / 10 blk	701-8500-67850	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00		\$1,000,000.00
Sewer Main replace	W. Charles / 10 blk	700-8500-67990	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00		\$1,000,000.00
Manhole replacement			\$50,000.00						\$50,000.00
<b>TOTAL FOR DEPARTMENT</b>			<b>\$450,000.00</b>	\$400,000.00	\$400,000.00	\$400,000.00	\$400,000.00	\$0.00	\$2,050,000.00

# Sewer - Future

Sewer -	Project Number		FY 2023	FY 2024	FY 2025	FY2026	FY2027	FY2028	FY23 to FY28
INI Sewer Study									\$0.00
Scada Upgrade 7 yrs.	Done 2020								\$0.00
1st Ave Lift Station									\$0.00
20th St Lift Station									\$0.00
6th Ave Lift Station									\$0.00
KOEL Lift Station									\$0.00
Wildwood Lift Station									\$0.00
GenSet 1st Ave									\$0.00
Portable Generator									\$0.00
<b>TOTAL FOR DEPARTMENT</b>			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00



# Street Rehabilitation 2022

# Transportation Mapping Focus Areas

## 8<sup>th</sup> Ave NE/SE Corridor

The 8<sup>th</sup> Ave. NE/SE corridor connects major community facilities, including the city swimming pool and Wings Park, Wings Park Elementary, Mercy Hospital, Oelwein High School and the Little Husky Learning Center, Grandview Health Care Center, and Platt Park. It is a minor arterial road. Public meeting participants identified the corridor as a key pedestrian route, and the Charles St. E/8<sup>th</sup> Ave NE intersection as a key intersection. The following were identified issues/needs for this corridor:

- Sidewalk gaps at the south end of 8<sup>th</sup> Ave. SE (and going east along 7<sup>th</sup> St SE), and at the north end of 8<sup>th</sup> Ave NE (from Wings park Elementary heading north), need to be filled to support connectivity.
- The 8<sup>th</sup> Ave/2<sup>nd</sup> St SE, 8<sup>th</sup> Ave/Charles St E, and 8<sup>th</sup> Ave/1<sup>st</sup> St NE intersections all have congestion and pedestrian safety/movement concerns.
- Pedestrian safety concerns were identified on 8<sup>th</sup> Ave NE at Wings Park Elementary.
- Bicycle routes were recommended from the 8<sup>th</sup> Ave/1<sup>st</sup> St SE intersection, north to 6<sup>th</sup> St NE.
- Pavement condition on 8<sup>th</sup> Ave between 2<sup>nd</sup> St SE and 3<sup>rd</sup> St SE, and between 5<sup>th</sup> St SE and 7<sup>th</sup> St SE, *is rated poor*.

## 12<sup>th</sup> Ave SE Corridor

The 12<sup>th</sup> Ave SE corridor connects the community to the Oelwein Middle School and Reidy park. The following were identified issues/needs for this corridor:

- Maintenance concerns were identified along this road segment, and pavement condition *is rated poor*.
- Walking infrastructure was identified as a need along the entire corridor, and pedestrian safety was a concern at the south end near the middle school. Walking infrastructure was also identified as a need on Hillside Dr. E (immediately west of 12<sup>th</sup> Ave SE)

## 6<sup>th</sup> St NW/NE Corridor

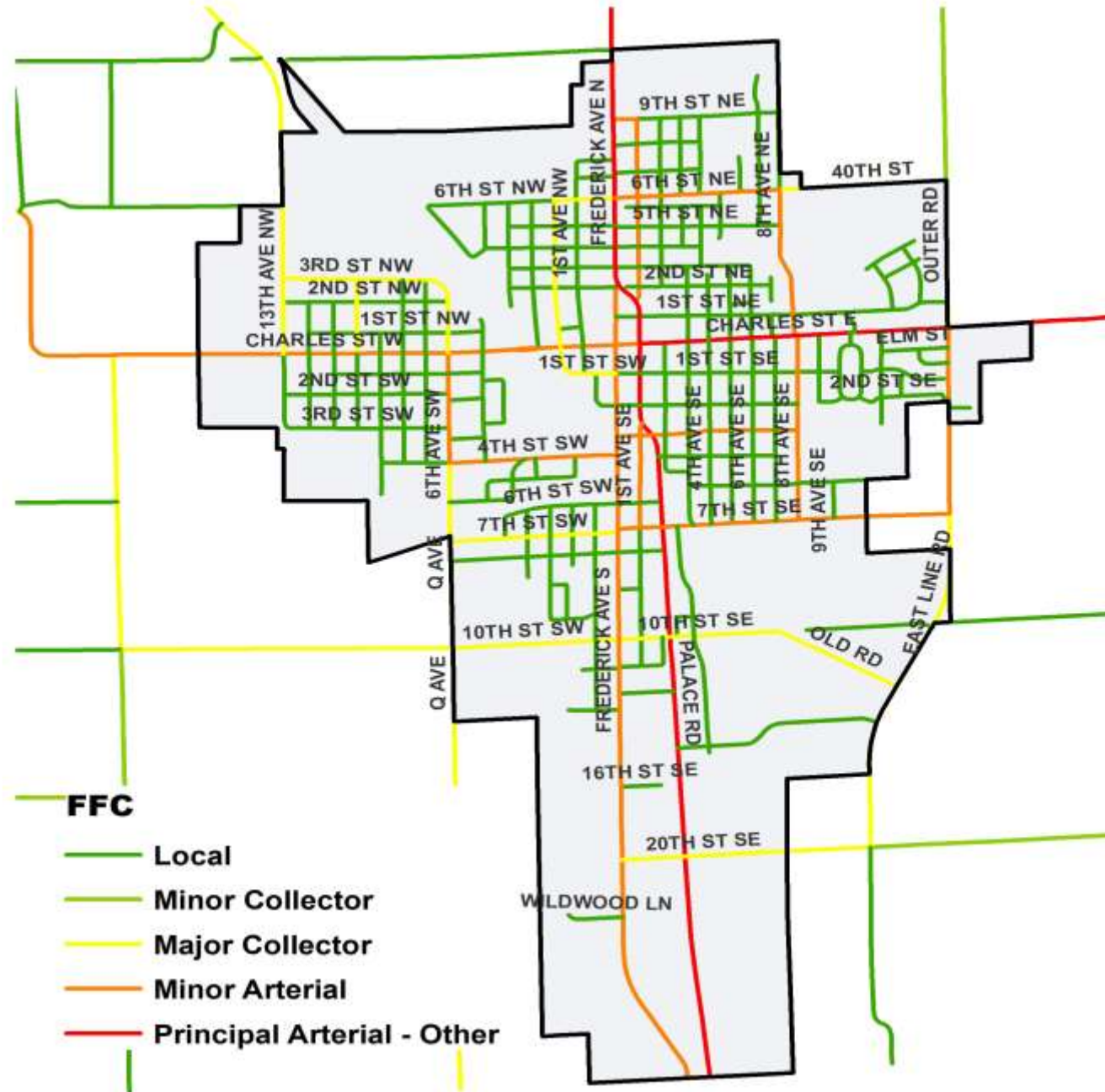
The 6<sup>th</sup> Ave NW/NE corridor runs east-west through northern Oelwein. The 6<sup>th</sup> St NE/Frederick Ave intersection was identified as a key intersection in the community. The following were identified issues/needs for this corridor:

- Maintenance concerns were identified between 8<sup>th</sup> Ave NE and Frederick Ave N, and pavement condition *is rated poor in several areas* of 6<sup>th</sup> Ave NE
- Walking infrastructure and bicycle routes were recommended along the entire 6<sup>th</sup> St NE/NW corridor.



# Federal Functional Classification (FFC)

Source: Iowa Dept. of Transportation, Office of Analytics, Roadway Asset Management System (RAMS), Data; Upper Explorerland Regional Planning Commission, Map

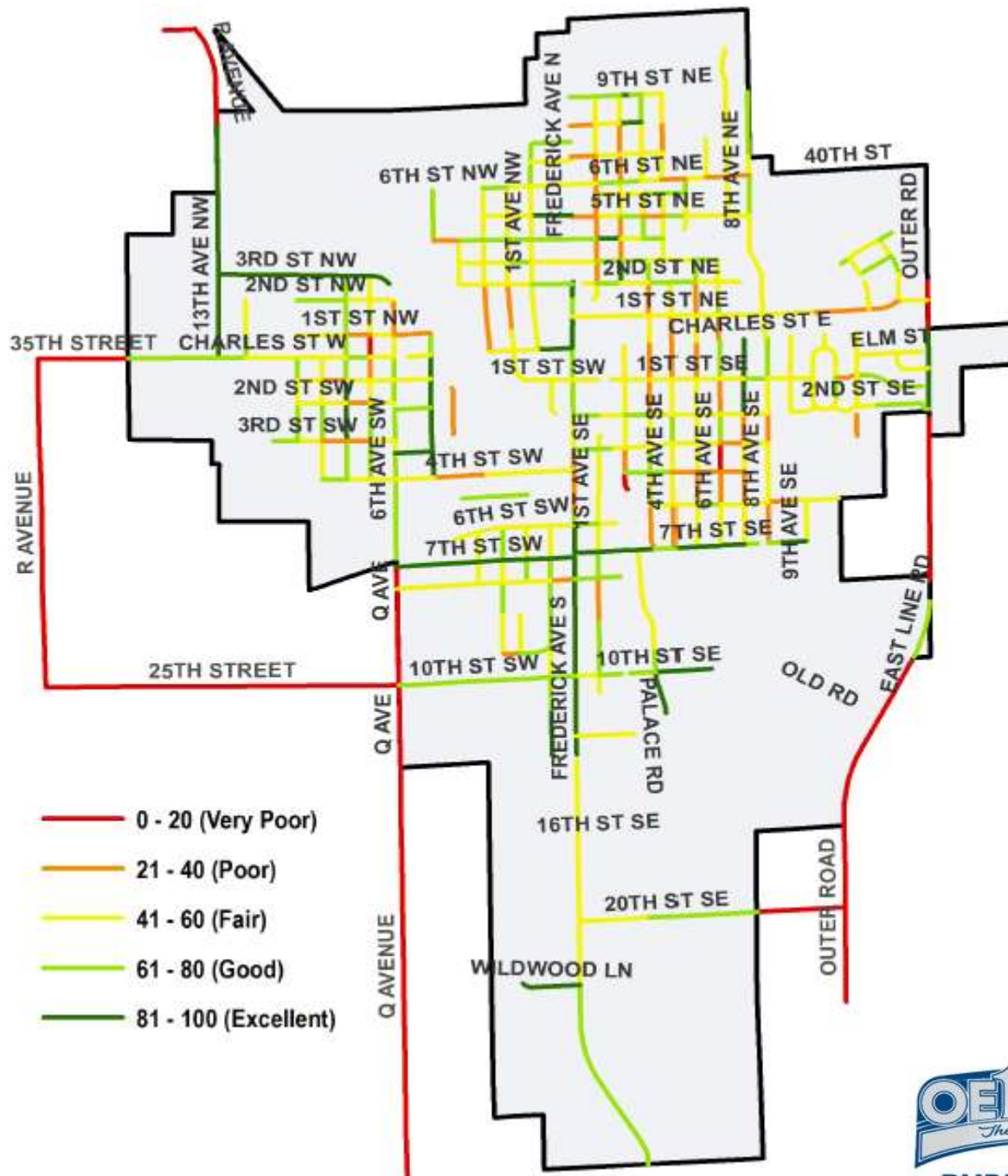


# 3-1. Pavement Condition Index

Source: Iowa State University, Institute for Transportation, Center for Transportation Research and Education, Iowa Pavement Management Program (IPMP) Data; Upper Explorerland Regional Planning Commission, Map

## PCI is Calculated By:

- 1) Identifying thresholds for various asphalt, composite, and concrete road distress types (e.g. International Roughness Index (IRI), cracking, patching, rutting, etc.)
- 2) Reviewing images of road segments to determine whether a distress threshold has been met
- 3) Starting with 100, subtracting a weighted number given to each distress type should the threshold be met. If the threshold is not met, the weighted number for the distress type is not subtracted.
- 4) Creating rating categories based on the final number arrived at after the methodology has been applied, from Very Poor (1 - 20 points) up to Excellent (81 - 100 points).



Item 1.



# PASER Asphalt Roads Manual

## What is the PASER rating?

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- The Pavement Surface and Rating (PASER) system is used to evaluate the condition of road segments. The PASER system rates each segment on a scale of 1-10 with 1 being the worst condition, and 10 being the best condition (new pavement).



# Rating Surface conditions of Sealcoated roads



Surface age	Visible distress	General condition, drainage, and recommended improvement	Surface rating
1 year old	No distress. Excellent surface and ride.	New surface condition. Excellent drainage. No maintenance required.	<b>5</b> Excellent
2-4 years old	Slight surface wear from traffic. Slight loss of surface aggregate. Minor flushing or tracking.	Excellent or good drainage. Little or no maintenance required.	<b>4</b> Good
3-5 years old	Moderate surface wear and/or flushing. Slight edge cracking. Occasional patch or loss of top layer of sealcoat.	Good or fair drainage. May need spot drainage improvement and/or minor patching. Preventive maintenance sealcoat recommended.	<b>3</b> Fair
more than 5 years old	Severe wear or flushing. Moderate to severe edge cracking or patching. Potholes or significant loss of surface sealcoat. Alligator cracking.	Fair or poor drainage. Ditching or culvert improvements needed. Patching or surface wedging needed. New surface sealcoat required.	<b>2</b> Poor
more than 5 years old	Extensive loss of surface sealcoat. Severe edge cracking and/or alligator cracking. Extensive patching in poor condition and/or rutting.	Extensive poor drainage. Needs base improvement and new double sealcoat.	<b>1</b> Failed

# Asphalt Pavement Surface Rating system

Surface rating	Visible distress*	General condition/ treatment mea
10 - Excellent	None.	New construction.
9 - Excellent	None.	Recent overlay. Like new.
<b>8</b> Very Good	No longitudinal cracks except reflection of paving joints. Occasional transverse cracks, widely spaced (40' or greater). All cracks sealed or tight (open less than 1/4").	Recent sealcoat or new cold mix. Little or no maintenance required.
<b>7</b> Good	Very slight or no raveling, surface shows some traffic wear. Longitudinal cracks (open 1/4") due to reflection or paving joints. Transverse cracks (open 1/4") spaced 10' or more apart, little or slight crack raveling. No patching or very few patches in excellent condition.	First signs of aging. Maintainwith routine crack filling.
<b>6</b> Good	Slight raveling (loss of fines) and traffic wear. Longitudinal cracks (open 1/4"– 1/2"). Transverse cracks (open 1/4"– 1/2"), some spaced less than 10'. First sign of block cracking. Sight to moderate flushing or polishing. Occasional patching in good condition.	Shows signs of aging. Sound structural condition. Could extend life with sealcoat.
<b>5</b> Fair	Moderate to severe raveling (loss of fine and coarse aggregate). Longitudinal and transverse cracks (open 1/2" or more) show first signs of slight raveling and secondary cracks. First signs of longitudinalcracks near pavement edge. Block cracking up to 50% of surface. Extensive to severe flushing or polishing. Some patching or edgewedging in good condition.	Surface aging. Sound structural condition. Needs sealcoat or thin non-structural overlay (less than 2")
<b>4</b> Fair	Severe surface raveling. Multiple longitudinal and transverse crackingwith slight raveling. Longitudinal cracking in wheel path. Block cracking (over 50% of surface). Patching in fair condition. Slight rutting or distortions (1/2" deep or less).	Significant aging and first signs ofneed for strengthening. Would benefit from a structural overlay (2" or more).
<b>3</b> Poor	Closely spaced longitudinal and transverse cracks often showing raveling and crack erosion. Severe block cracking. Some alligator cracking (less than 25% of surface). Patches in fair to poor condition. Moderate rutting or distortion (greater than 1/2" but less than 2" deep). Occasional potholes.	Needs patching and repair prior to major overlay. Milling and removal of deterioration extendsthe life of overlay.
<b>2</b> Very Poor	Alligator cracking (over 25% of surface). Severe rutting or distortions (2" or more deep). Extensive patching in poor condition. Potholes.	Severe deterioration. Needs reconstruction with extensive base repair. Pulverization of old pavement is effective.
<b>1</b> Failed	<b>Severe distress with extensive loss of surface integrity.</b>	<b>Failed. Needs total reconstruction.</b>

# Concrete Pavement Surface Rating system

Surface rating	Visible distress*	General condition/ treatment measures
<b>10 - Excellent</b>	None.	New pavement. No maintenance required.
<b>9 - Excellent</b>	Traffic wear in wheelpath. Slight map cracking or pop-outs.	Recent concrete overlay or joint rehabilitation. Like new condition. No maintenance required.
<b>8 Very Good</b>	Pop-outs, map cracking, or minor surface defects. Slight surface scaling. Partial loss of joint sealant. Isolated meander cracks, tight or well sealed. Isolated cracks at manholes, tight or well sealed.	More surface wear or slight defects. Little or no maintenance required.
<b>7 Good</b>	More extensive surface scaling. Some open joints. Isolated transverse or longitudinal cracks, tight or well sealed. Some manhole displacement and cracking. First utility patch, in good condition. First noticeable settlement or heave area.	First sign of transverse cracks (all tight); first utility patch. More extensive surface scaling. Seal open joints and other routine maintenance.
<b>6 Good</b>	Moderate scaling in several locations. A few isolated surface spalls. Shallow reinforcement causing cracks. Several corner cracks, tight or well sealed. Open (1/4" wide) longitudinal or transverse joints and more frequent transverse cracks (some open 1/4").	First signs of shallow reinforcement or corner cracking. Needs general joint and crack sealing. Scaled areas could be overlaid.
<b>5 Fair</b>	Moderate to severe polishing or scaling over 25% of the surface. High reinforcing steel causing surface spalling. Some joints and cracks have begun spalling. First signs of joint or crack faulting (1/4"). Multiple corner cracks with broken pieces. Moderate settlement or frost heave areas. Patching showing distress.	First signs of joint or crack spalling or faulting. Grind to repair surface defects. Some partial depth patching or joint repairs needed.
<b>4 Fair</b>	Severe polishing, scaling, map cracking, or spalling over 50% of the area. Joints and cracks show moderate to severe spalling. Pumping and faulting of joints (1/2") with fair ride. Several slabs have multiple transverse or meander cracks with moderate spalling. Spalled area broken into several pieces. Corner cracks with missing pieces or patches. Pavement blowups.	Needs some full depth repairs, grinding, and/or asphalt overlay to correct surface defects.
<b>3 Poor</b>	Most joints and cracks are open, with multiple parallel cracks, severe spalling, or faulting. D-cracking is evident. Severe faulting (1") giving poor ride. Extensive patching in fair to poor condition. Many transverse and meander cracks, open and severely spalled.	Needs extensive full depth patching plus some full slab replacement.
<b>2 Very Poor</b>	Extensive slab cracking, severely spalled and patched. Joints failed. Patching in very poor condition. Severe and extensive settlements or frost heaves.	Recycle and/or rebuild pavement.
<b>1 Failed</b>	<b>Restricted speed. Extensive potholes. Almost total loss of pavement integrity.</b>	<b>Total reconstruction.</b>



# Gravel Pavement Surface Rating system

Surfac rating	Visible distress*	General condition/ treatment measures
<p><b>5</b> <b>Excellent</b></p>	<p>No distress. Dust controlled. Excellent surface condition and ride.</p>	<p>New construction—or total reconstruction. Excellent drainage. Little or no maintenance needed.</p>
<p><b>4</b> <b>Good</b></p>	<p>Dust under dry conditions. Moderate loose aggregate. Slight washboarding.</p>	<p>Recently regraded. Good crown and drainage throughout. Adequate gravel for traffic. Routine grading and dust control may be needed.</p>
<p><b>3</b> <b>Fair</b></p>	<p>Good crown (3"-6"). Adequate ditches on more than 50% of roadway. Gravel layer mostly adequate but additional aggregate may be needed in some locations to correct washboarding or isolated potholes and ruts. Some culvert cleaning needed. Moderate washboarding (1"-2" deep) over 10%-25% of the area. Moderate dust, partial obstruction of vision. None or slight rutting (less than 1" deep). An occasional small pothole (less than 2" deep). Some loose aggregate (2" deep).</p>	<p>Shows traffic effects. Regrading (reworking) necessary to maintain. Needs some ditch improvement and culvert maintenance. Some areas may need additional gravel.</p>
<p><b>2</b> <b>Poor</b></p>	<p>Little or no roadway crown (less than 3"). Adequate ditches on less than 50% of roadway. Portions of the ditches may be filled, over- grown and/or show erosion. Some areas (25%) with little or no aggregate. Culverts partially full of debris. Moderate to severe washboarding (over 3" deep) over 25% of area. Moderate rutting (1"-3"), over 10%-25% of area. Moderate potholes (2"-4") over 10%-25% of area. Severe loose aggregate (over 4").</p>	<p>Travel at slow speeds (less than 25 mph) is required. Needs additional new aggregate. Major ditch construction and culvert maintenance also required.</p>
<p><b>1</b> <b>Failed</b></p>	<p><b>No roadway crown or road is bowl shaped with extensive ponding.</b> <b>Little if any ditching. Filled or damaged culverts. Severe rutting (over 3" deep), over 25% of the area. Severe potholes (over 4" deep), over 25% of area. Many areas (over 25%) with little or no aggregate.</b></p>	<p><b>Travel is difficult and road may be closed at times. Needs complete rebuilding and/or new culverts.</b></p>



# 6<sup>th</sup> St NE – (2<sup>nd</sup> Ave to 8<sup>th</sup> Ave)

\*650 linear ft of concrete and 1350 linear ft of Asphalt overlay

\*possibly crack and seat and overlay concrete portion

\*would need 650 ft of water main replaced and 1280 ft of sewer inspected and possibly rehabbed

**\$112,000 -**



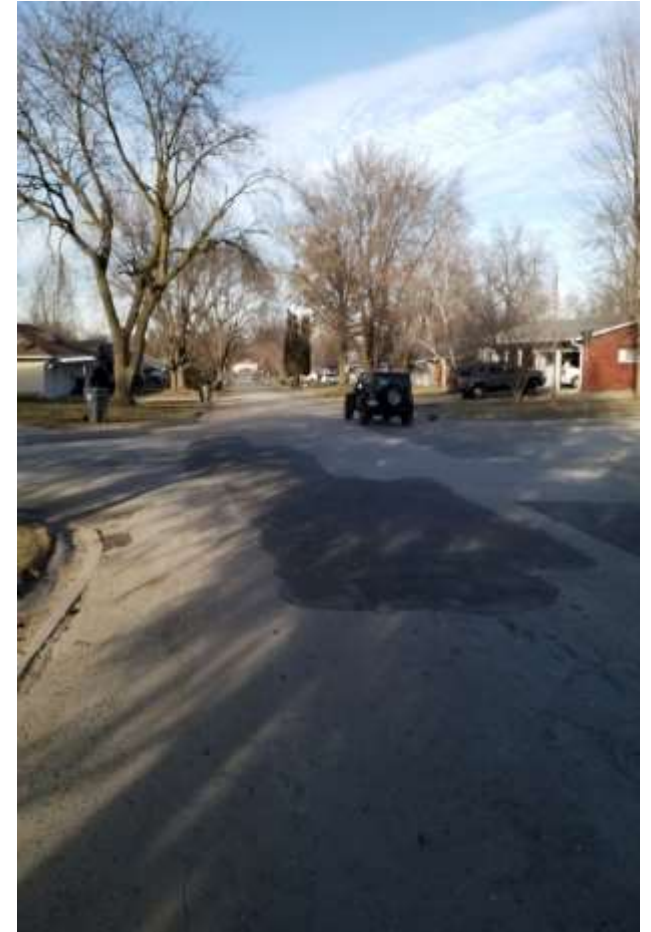
# 12<sup>th</sup> Ave SE – (E. Charles to 2<sup>nd</sup> St)

\*1350 Linear feet at 34-ft width Asphalt overlay

\*Would need 1500 ft of sanitary sewer inspected for condition

\*Asphalt overlay estimate including a 1" leveling course followed by a 2" overlay

**\$81,000 -**





# 2<sup>nd</sup> St SE — (2<sup>nd</sup> Ave to 8<sup>th</sup> Ave)

\*2150 linear ft at 30-ft width Asphalt overlay and complete curb replacement

\*would need to inspect sewer crossings

\*water main is back of curb

\*Asphalt overlay estimate not including the necessary curb work including a 1" leveling course followed by a 2" overlay

**\$166,425 -**



# 3<sup>rd</sup> Ave NE – (6<sup>th</sup> St to 8<sup>th</sup> St)

\*950 linear ft at 32-foot

\*would need 950 ft of water main replaced and 950 ft of sanitary sewer inspected and possibly rehabbed

**\$62,500 -**





# Oak St. (East Line Rd. to Elm St.)

**\$44,500 -**

Item 1.

- \*636 Linear ft concrete at 34-ft width
- \*Would need 562 ft of sanitary sewers that is questionable inspected
- \*has 632 ft of 6" water main that has only had one leak in 20+ years and it was a blown-out corporation stop
- \*Crack and seat estimate including a 1" leveling course followed by a 2" overlay





# 8<sup>th</sup> Ave SE - (2<sup>nd</sup> St to 5<sup>th</sup> St)

Item 1.

\*1425 linear ft at 45 ft width

\*Would need 1200 ft of water main replaced and 300 ft of sanitary sewer inspected and possibly rehabbed

**\*\* Possible collaboration with OCSD**



5<sup>th</sup> St SE

## Proposed Seal Coat List 2022

1<sup>st</sup> Ave NE 2<sup>nd</sup> Street to 9<sup>th</sup> Street 10,050 Sq Yards single seal  
2<sup>nd</sup> Street NW 10<sup>th</sup> Ave to 13<sup>th</sup> Ave 2,360 Sq Yards double seal  
2<sup>nd</sup> Street SW 10<sup>th</sup> Ave to 13<sup>th</sup> Ave 2,400 Sq Yards double seal  
2<sup>nd</sup> Street SW 10<sup>th</sup> Ave to 6<sup>th</sup> Ave 3,200 Sq Yards single seal  
12<sup>th</sup> Ave NW West Charles to 2<sup>nd</sup> Street NW 2,044 Sq Yards single seal  
7<sup>th</sup> Street NE North Fredrick to 4<sup>th</sup> Ave NE 3,820 Sq Yards single seal  
9<sup>th</sup> Street NE North Fredrick to 7<sup>th</sup> Ave NE 5,100 Sq Yards single seal  
4<sup>th</sup> Ave NE 6<sup>th</sup> Street to 9<sup>th</sup> Street 3,111 Sq Yards single seal  
8<sup>th</sup> Street SW South Fredrick to 6<sup>th</sup> Ave SW 7,555 Sq Yards single seal  
South Fredrick Fidelity Driveway to 5<sup>th</sup> Street SE 7,944 Sq Yards single seal  
8<sup>th</sup> Ave NE 6<sup>th</sup> Street to 9<sup>th</sup> Street 3,422 Sq Yards single seal  
7<sup>th</sup> Ave NE 6<sup>th</sup> Street to 9<sup>th</sup> Street 4,977 Sq Yards single seal  
5<sup>th</sup> Street NE North Fredrick to 4<sup>th</sup> Ave NE 4,846 Sq Yards single seal  
1<sup>st</sup> Ave NW West Charles to Maplewood Drive 9,951 Sq Yards single seal  
2<sup>nd</sup> Ave NW West Charles to 6<sup>th</sup> Street NW 8,666 Sq Yards  
4<sup>th</sup> Street NW North Fredrick to 5<sup>th</sup> Ave NW 6,150 Sq Yards single seal  
5<sup>th</sup> Street NW North Fredrick to 3<sup>rd</sup> Ave NW 4,533 Sq Yards single seal  
West Charles Plaza to Viaduct 4,000 Sq Yards single seal  
3<sup>rd</sup> Street SE Rock Island Road to 7<sup>th</sup> Ave SE 6,500 Sq Yards single seal  
4<sup>th</sup> Street SE 2<sup>nd</sup> Ave to 7<sup>th</sup> Ave 5,688 Sq Yards single seal  
5<sup>th</sup> Street SE 3<sup>rd</sup> Ave to 8<sup>th</sup> Ave 8,177 Sq Yards single seal (when and if water main project is completed)  
North Parking Lot 8,000 Sq Yards single seal  
South Parking Lot 8,800 Sq Yards single seal  
Old City Hall parking Lot 950 Sq Yards single seal  
Imoehl Parking Lot 3,055 Sq Yards single seal  
City Hall Parking Lot 2,333 Sq Yards single seal  
Downtown Alleys 7,488 Sq Yards

145,120 Sq. Yards = **\$300,000** –  
chip seal and sealcoat

Item 1.

# Proposed Seal Coat Option 1

Item 1.

Fidelity Bank

South Frederick Fidelity Driveway to 5<sup>th</sup> Street SE 7,944 Sq Yards 1" leveling coarse followed by a 2" overlay

\$120,000





# Proposed Seal Coat Option 2

Item 1.

6<sup>th</sup> Ave SW from West Charles to 4<sup>th</sup> Street SW 8,888 Sq Yards 1" leveling coarse followed by a 2" overlay

2,000 feet of water main replacement and 2,000 feet of sanitary sewer to be inspected and possibly rehabbed *in addition to* overlay cost below

\$132,000

W. Charles St.



4<sup>th</sup> St SW