#### WISCONSIN

#### **NOTICE OF PUBLIC MEETING**



#### Public Works Committee/

Ryan Austin, Chairperson Sheri Evanson, Secretary Dennis Polach Mayor Blaser

Notice is hereby given of a meeting of the Public Works Committee to be held in the Council Chambers at City Hall, 444 West Grand Avenue, Wisconsin Rapids, at 5:00 p.m. on Thursday, December 8, 2022. The meeting will be streamed live on the City of Wisconsin Rapids Facebook page and will also be broadcast live on Charter Cable Channel 985 and Solarus HD Cable Channel 3. If a member of the public wishes to access this meeting live via Zoom audio conferencing, you must contact the City Clerk at least 24 hours prior to the start of the meeting to coordinate your access. This meeting is also available after its conclusion on the City's Facebook page and Community Media's YouTube page, which can be accessed at <a href="https://www.wr-cm.org">www.wr-cm.org</a>. It is possible that members of the Committee may appear remotely via video or audioconferencing for this meeting.

#### Agenda

- 1. Call to order
- 2. Review Engineering & Street Department Monthly Activity Report.
- 3. Review the bid results for the West Riverview Expressway Traffic Signal Improvement project and consider awarding the contract to the low, qualified bidder.
- 4. Request from Alderperson Zacher to consider removing pavers in west boulevard of 2<sup>nd</sup> Ave S between roundabout and Lyons St and replacing with colored, stamped concrete.
- 5. Request to remove no parking ordinance on the south side of Clyde Ave from 250 ft to 350 ft west of Lincoln St.
- 6. Request by Gary Wilhorn, 4281 14th Pl S, to install street lighting at the intersection of 14th Pl and Whitrock Ave.
- 7. Review the traffic signal outage at 2<sup>nd</sup> Ave S and Riverview Expressway and consider spare equipment options in the event of future outages.
- 8. Request to solicit proposals for a Bridge Rehabilitation Report for the Grand Ave Bridge in preparation of applying for the 2024-2026 BIL Local Bridge program.
- 9. Request to apply for a Highway Safety Improvement Program grant for pedestrian safety improvements at Wood Ave and 8<sup>th</sup> St S.
- 10. Review the Pavement Replacement Plan

- 11. Review referral list
- 12. Set Next Meeting Date
- 13. Adjourn

#### Ryan Austin, Chairperson

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The City of Wisconsin Rapids provides access to meetings to all citizens. If access to this meeting through video or audio means is not possible due to a disability, notification to the City's IT Manager at 715-421-8288 at least 48 hours prior to the scheduled meeting is encouraged to request accommodations.

#### WISCONSIN



# PUBLIC WORKS DEPARTMENT

1411 CHASE STREET WISCONSIN RAPIDS, WI 54495 (715) 421-8218 FAX (715) 421-8281

#### **November 2022**

#### Refuse and Recycling

- Garbage Collection estimate 438.71 tons (2021 368.29 tons)
- Recycling Collection estimate 108.31 tons (2021 100.91 tons)

#### Construction

#### Cherry Street (Riverview Drive – $1^{\underline{st}}$ St North, Smith St (Railroad St – Riverview Drive)

• Project completed

#### Rosecrans Street (9th Ave - Dead End)

• Project completed

#### Lyons Park Flood Levee (1681 2nd Ave to Lyon Park)

- Installed 382' of bottom retaining wall block
- Installed 346' of top retaining wall block
- Poured 3,684 sq feet of Concrete pavement and thickened slab footing along retaining wall
- Built earth berm from retaining wall south to trail crossing at Woodbine, riverside is seeded and erosion matted to protect in spring
- Installed 24 block with cap at Woodbine and 2<sup>nd</sup> Ave

#### Items to complete in spring:

- Asphalt trail tie in at river wall (North and South)
- Finish rake and seed earth berm and disturbed areas
- Asphalt trail tie in at Woodbine and 2<sup>nd</sup> Ave
- Install metal railing along river wall
- Asphalt patch between wall and back of curb

#### 18th Ave South (Russel Street – West Grand Ave)

Project completed

#### West Jackson Street (West Riverview Expressway - Wisconsin River)

• City portion of project completed

#### <u>Freemont Street (14th Street – 13th Street)</u>

• Project completed

#### 9th Ave North (West Grand Ave – Freemont Street)

• Backfilled curb and gutter

#### Items to complete in spring:

- Restoration of green spaces from West Grand Ave High Street
- Entire construction of High Street Freemont Street
- Some Concrete Carriage Walks

#### <u>Freemont Street (7<sup>th</sup> Ave N – 10<sup>th</sup> Ave N</u>

- Finish Graded Freemont Street to get ready for Asphalt pavement
- Backfill curb for driveways
- Backfill curb and gutter in green spaces that don't have sidewalk section

#### Items to complete:

- Concrete sidewalks and curb ramps
- Asphalt patch driveways
- Backfill of curb and site restoration

#### 17th Ave North (Rosecrans Ave – Jefferson Street)

• Project completed

#### Streets Maintenance

- Cut grass in ROW city maintains
- Assisted WWLC with Raw water main site restoration
- Site restoration for Curb and Gutter maintenance contractor
- Provided monthly Brush pickup and Fall yard waste collection
- Dig out and Install Asphalt Patches on 8th Street and various sanitary repairs
- Haul chip seal chips back from wash plant to be reused next season
- Shoulder restoration on new paved alleys and bike trails, 14<sup>th</sup> Ave North, and 2<sup>nd</sup> and Drake Street, West River bank by Fire Fighters memorial
- Remove river dock and garbage containers along West Grand Ave
- Street Sweeping
- Placed Salt sand bins at locations within the City
- Poured Curb and Gutter repair for WWLC raw water line construction
- Split Stumps at West compost site to prepare for grinding
- Worked six small snow events with salting mains and brushing sidewalks
- Loaded out Sludge for Waste Water Contractor
- Checked over plow routes for high manholes and low tree branches
- Hauled sweepings to Waste Management
- Participated in the Rekindle the Spirit Parade
- Fixed Culvert pipes that failed in ditch ends
- Final sweeping of chip seal streets

#### Paint and Signs

- Change out fall banners downtown to winter banners
- Install flags for Veterans day and remove
- Installed new signs on 9<sup>th</sup> Ave North Construction project
- Removed WIAA banners over State highways for State football
- Removed banners from Veterans memorial walk
- Installed Christmas decorations along Grand Ave and Expressway Bridge
- Delivered Happy Holidays sign for highway entrances

• Installed LED School Crossing signs on 32<sup>nd</sup> Street and Baker Street

#### Shop and Repairs

- Routine service work fleet trucks
- Annual Vehicle Inspections
- Service Police and Fire's fleet
- Finished preparation for snow fighting equipment
- Prepared Unit 26, Old office trailer and Drill Rig for pickup. Units were sold at auction



# ENGINEERING DEPARTMENT 444 West Grand Avenue Wisconsin Rapids, WI 54495-2780 Engineering (715) 421-8205 FAX (715) 421-8291

#### **ENGINEERING DEPARTMENT Monthly Activity Report**

November 2022

#### Permits & Degradation

- 16 Permits/Applications (34 last month) for asphalt paving (1), driveway grades/concrete pour inspections (1), storm water (0), excavating (10), Street Privilege (1), storm connection (0), permit parking (2), banner (0), environmental testing well (0), contractor licenses (1)
  - This year 313 permits & licenses
- 125 Diggers Locates for Storm Sewer & Sanitary Sewer (205 last month)
  - 4 Emergency locates
- Degradation fees this year = \$93,403.57
  - This month = \$3,178.13 (\$8,136.00 last month)

#### Traffic

#### • Vision Triangle Complaints

4<sup>th</sup> Ave N and W Grand Ave – Southbound left – review is complete. The westerly
most parking stall on the north side of W Grand Ave closest to 4<sup>th</sup> Ave will be
removed to allow better visibility and increase the safety of motorists attempting to
see traffic coming from the east. Work order will be sent out for painting in spring.

#### • Stop Sign / Yield Sign Requests

- $\circ$  2<sup>nd</sup> St S and Davis Ave 4/28/22 counter placed 11/22/22.
- 13<sup>th</sup> St N & Prospect St 10/6/22 counter placed 11/29/22.
  - 13<sup>th</sup> St N at Saratoga St, Avon and Wisconsin
  - 14<sup>th</sup> St N at Prospect St, Avon St and Wisconsin
  - 15<sup>th</sup> St N at Prospect St, Avon St and Wisconsin

#### • ITS Standalone Signal Grant

 Bid opening is scheduled for Dec. 8<sup>th</sup> at 10am. Results will be presented at the Public Works meeting that evening.

#### • Signal complaints

- 2<sup>nd</sup> Ave and Expressway accident. Cabinet arrived and installed on Thursday, 11/3/22. Intersection is back to normal operation.
- o Request to make 3<sup>rd</sup> St / Market St / Jackson St intersection an all-way stop.
- Chase St & Expressway red light running, pedestrian safety, queueing. verified equipment and performed visual observations in October.
- STH 54 & CTH W too few cars can get through (9/20/2022)
- Chestnut & 8<sup>th</sup> St too few cars can get through (9/20/2022)

11/29/2022



#### ENGINEERING DEPARTMENT 444 West Grand Avenue Wisconsin Rapids, WI 54495-2780

Engineering (715) 421-8205 FAX (715) 421-8291

W Grand & Expressway – left turn coming on when it shouldn't (9/30/2022)

#### Project Designs/Construction underway:

#### **Maintenance Projects**

• Sidewalk and Curb & Gutter Maintenance

#### 2022 Reconstruction Projects

- Construction for 2022 Projects
  - DOA/Lyon Park Levee Lyon Park work began October 24<sup>th</sup> and is primarily complete on 11/23/22.
  - 2022 Concrete contract will remain open to complete spring of 2023 to complete 9<sup>th</sup> Ave. and Fremont St projects.

#### 2023 Reconstruction Projects

- Preliminary Survey for 2023 Projects are complete.
- Design for 2023 Projects
  - Oak St (E Jackson St to 16<sup>th</sup> St) 85%
  - Shorewood Terrace (1<sup>st</sup> St N to Termini) 85%
  - Apricot St and Broadway St 90%
- 2023 Contracts
  - Sewer Lining Contract 0%
  - Crushing Contract 0%
  - Asphalt Contract 0%
  - Concrete Contract 0%

#### 2024 Reconstruction Projects

- Preliminary Survey for 2024 Projects
  - Lincoln St (Expressway to Peach St) 100%
  - Wylie St (8<sup>th</sup> St N to 10<sup>th</sup> St N) − 100%
  - o 14<sup>th</sup> Ave N (W Grand Ave to Fremont St) 0%
  - 15<sup>th</sup> Ave N (W Grand Ave to High St) − 0%
- Design for 2024 Projects
  - o 9<sup>th</sup> St S (Peach St to Chestnut St) 40%
  - Lincoln St (Expressway to Peach St) 5%
  - Wylie St (8<sup>th</sup> St N to 10<sup>th</sup> St N) 15%
  - 14<sup>th</sup> Ave N (W Grand Ave to Fremont St) 0%
  - o 15<sup>th</sup> Ave N (W Grand Ave to High St) 0%



# ENGINEERING DEPARTMENT 444 West Grand Avenue Wisconsin Rapids, WI 54495-2780 Engineering (715) 421-8205 FAX (715) 421-8291

#### Storm Water Utility

- Storm Utility Billing Update/Audit Proposed scope of work consists of reviewing and updating the utility database to make sure billing is accurate. Work is expected to be complete by Dec. 31<sup>st</sup>, 2022.
- Illicit Discharge and Detection Outfall Testing is complete.
- One Mile Cr. We are waiting for DNR to provide comments on the permit application for the dams. A letter will be sent to property owners in December with general updates on the project.

#### **Transportation Utility**

Began review of 28 new accounts added.

#### Capital Improvement Planning

No new updates at this time.

#### Other Highlights

- Rail Study Kick-off meeting was held on 9/29/2022. Data collection began on October 12<sup>th</sup>.
  - Preliminary rail data is attached
  - o Public Survey 700+ responses as 11/28/22. Survey will run until Dec. 30<sup>th</sup>.
  - Completing data collection and starting work on the final report the week of Dec. 5<sup>th</sup>
  - LingThingz moved data collection equipment to 17<sup>th</sup> Ave N and Bonow Ave on 11/28/22.
- Baker St ped crossing. Preparation and coordination is complete. Bases are installed. Waiting for the remaining equipment to ship 12/9/22.
- W Jackson St Update
  - Street lights are scheduled to arrive 12/9/22.
- Downtown Riverwall project scoping
  - Diver inspection was complete this summer
  - Working with contractors on repair options and repair costs
- Dog Park
  - Preliminary survey was complete 11/29/22. Survey data is being sent to MSTC for the Highway Tech students to design.

A WI DNR Construction Permit was applied for 11/30/22

11/29/2022 3



# Rail Crossing Data Collection Wisconsin Rapid. 2022/11/07

#### **PRELIMINARY**

Increasing freight rail traffic has plagued communities for decades with increased congestion, delays, noise and safety consequences. Wisconsin Rapids experiences 1500' backups multiple times a day, frequent complains about noise and a plethora of rail congestion related issues. There is a history of searching for solutions including a rail relocation initiative back in 2000. The data collection will focus on the grade crossings at Gaynor Ave, W Grand Ave.



We have installed temporary sensors on municipal property along CN line to measure rail traffic. These sensors collect blocked crossings data at 0.1 second intervals along with measurement of speed, direction and length of train traffic. This is being performed using LinqThingz's TrainLinq product at W Grand Ave and Gaynor Ave. The data includes actual measurement of rail blockages and frequency of road vehicles. The analysis includes calculated count of blocked vehicles, estimated fuel usage, estimated carbon pollution, estimated excess fuel usage, estimated citizen productivity costs, estimated logistics impacts, and estimated emergency response impacts at all crossings along that stretch of CN line.

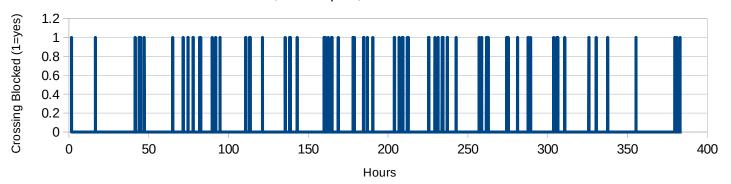




### Rail Crossing Data Collection Wisconsin Rapids, Grand Av. 2022/11/07

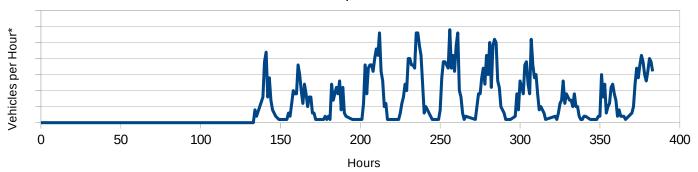
Rail Traffic

Grand Av., Wis Rapids, 20221023 to 20221107



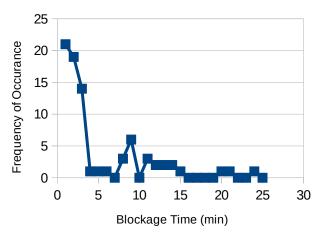
#### Vehicle Frequency

Grand Ave, Wisconsin Rapids, 20221023-20221107



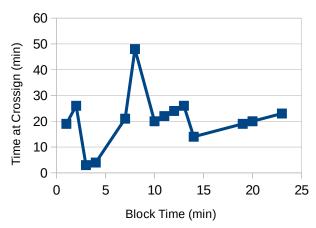
#### Rail Blockage Histogram

Wis Rapids, Grand Avenue, 2022-10-23 to 2022-11-06



#### Time At Crossing Historgram

Wis Rapids, Grand Av 20221023 to 20221107



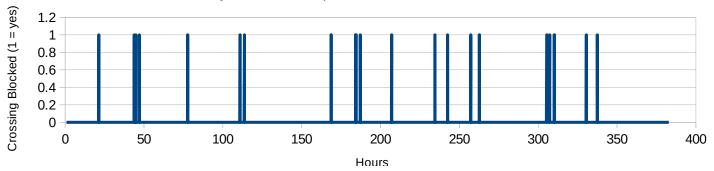
minutes are spent by most vehicles waiting at crossings
minutes is the average time the crossing blocked each day
minutes is the average time the crossing blocked each year
ton of pollution from waiting
Dollars of excess fuel usage
Dollars of citizens productivity
Dollars of logistics productivity



### Rail Crossing Data Collection Wisconsin Rapids, Gaynor Av.. 2022/11/07

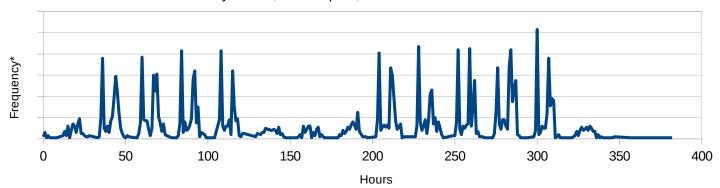
#### Rail Traffic

Gaynor St, Wis Rapids, 20221023 to 20221107



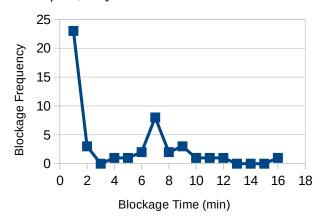
#### Vehicle Frequency

Gaynor Av, Wis Rapids, 20221023 to 20221107



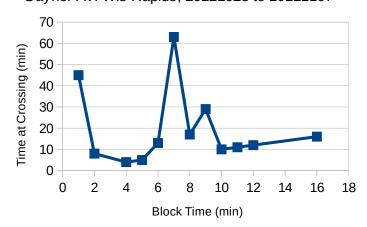
#### Rail Blockage Histogram

#### Wis Rapids, Gaynor St. 20221023 to 20221107



#### Time At Crossing Histogram

Gaynor Av. Wis Rapids, 20221023 to 20221107



- minutes are spent by most vehicles waiting at crossings minutes is the average time the crossing blocked each day minutes is the average time the crossing blocked each year ton of pollution from waiting Dollars of excess fuel usage
- Dollars of excess fuel usageDollars of citizens productivity

6855

Dollars of logistics productivity



#### **Public Works Committee**

**Date of Request: 11/30/2022** 

Requestor: Joe Eichsteadt, City Engineer

**Request/Referral:** Review the bid results for the West Riverview Expressway Traffic Signal Improvement project and consider awarding the contract to the low, qualified bidder.

#### **Background information:**

Bid opening is scheduled for December 8<sup>th</sup>. Results will be provided at Public Works Meeting that evening.

#### From September Public Works Meeting

The project was rebid mid-August with one bid from Pember Companies at \$793,617.05. The Engineering Estimate was \$465,285.65. Here is a summary of major cost discrepancies.

| 1                |             |   |      |          | Enginee     | r Estimate  | Pember Cor   | mpanies, Inc. |               |
|------------------|-------------|---|------|----------|-------------|-------------|--------------|---------------|---------------|
| Line Item<br>No. | Item Code   | Item Description  | UofM | Quantity | Unit Price  | Extension   | Unit Price   | Extension     |               |
| -                | Base Bid    |   |      |          |             |             |              |               |               |
|                  | 2           | NEMA TS-2 Type 2 Traffic Signal Control   | 3    |          |             |             |              |               |               |
| 59               | SPV.0060.09 | Cabinet and Controller  | EA   | 3        | \$23,000.00 | \$69,000.00 | \$44,000.00  | \$132,000.00  | (\$63,000.00) |
| 48               | 661.02      | Temporary Traffic Signals   | LS   | 1        | \$50,000.00 | \$50,000.00 | \$110,000.00 | \$110,000.00  | (\$60,000.00) |
| 2                | N/A         | Traffic Control   | LS   | 1        | \$10,000.00 | \$10,000.00 | \$52,000.00  | \$52,000.00   | (\$42,000.00) |
| 1                | N/A         | Mobilization, Bonds, and Insurance  | LS   | 1        | \$25,000.00 | \$25,000.00 | \$63,825.00  | \$63,825.00   | (\$38,825.00) |
| 60               | SPV.0060.10 | Railroad Preemption System Interface  | EA   | 3        | \$3,000.00  | \$9,000.00  | \$13,200.00  | \$39,600.00   | (\$30,600.00) |
| 52               | SPV.0060.02 | Remove, Salvage and Reinstall Traffic<br>Signal Equipment (W Riverview Expy &<br>W Grand Ave) | EA   | 1        | \$4,000.00  | \$4,000.00  | \$20,550.00  | \$20,550.00   | (\$16,550.00) |
| 51               | SPV.0060.01 | Remove, Salvage and Reinstall Traffic<br>Signal Equipment (W Riverview Expy &<br>High St)     | EA   | 1        | \$500.00    | \$500.00    | \$15,600.00  | \$15,600.00   | (\$15,100.00) |
| 62               | SPV.0060.12 | Video Vehicle Tracking and Detection<br>System (W Riverview Expy & High St)                   | EA   | 1        | \$31,000.00 | \$31,000.00 | \$45,000.00  | \$45,000.00   | (\$14,000.00) |
| 64               | SPV.0060.14 | Video Vehicle Tracking and Detection<br>System (W Riverview Expy & Chase St)                  | EA   | 1        | \$31,000.00 | \$31,000.00 | \$45,000.00  | \$45,000.00   | (\$14,000.00) |

#### From the June Public Works Meeting

January 2022 – MSA & CBS Squared firms were selected to design the signal improvements along the Expressway at Chase St, Grand Ave and High St.

The DOT Grant is funding  $\sim$ \$535,000 at a 90/10 split for the upgrade of the traffic signals along the Expressway at Chase St, W Grand Ave and High St.

*The engineering fees are \$71,355.* 



The project design is complete and has been out for bid for several weeks. Bid results are due June 17<sup>th</sup>.

Results will be reviewed ahead of the meeting and a staff recommendation will be provided at the meeting along with a summary of the bid results.

#### **Options available:**

Award to the low, qualified bidder or consider denying bids.

**Action you are requesting the committee take:** Award the project to the low, qualified bidder.

**How will the item be financed?** The project is financed through the 2022/2023 Traffic Control Budget and 90% of the original grant amount will be reimbursed by the DOT.

#### WISCONSIN



# PUBLIC WORKS DEPARTMENT

1411 CHASE STREET WISCONSIN RAPIDS, WI 54495 (715) 421-8218 FAX (715) 421-8281

A request was made by Alderperson Zacher to look at the boulevard on the west side of 2<sup>nd</sup> Ave South from the roundabout north to the north property line of 1320 2<sup>nd</sup> Ave. The boulevard was redone with brick pavers as part of a DOT Construction project in 2004. The pavers have settled in many spots more than 2" along the curb and 1" or more along the sidewalk. The area that is within question is approximately 3,380 sq ft. I have put together multiple solutions to fixing this problem.

In all cases the existing brick pavers will be removed and existing road base leveled. In some locations additional road base will be added to prepare for proper depth of proposed material.

| Option 1 | Asphalt Pavement                      | \$15,326.05 |
|----------|---------------------------------------|-------------|
| Option 2 | Concrete Pavement                     | \$23,807.89 |
| Option 3 | Colored Concrete Pavement             | \$27,774.56 |
| Option 4 | Colored and Stamped Concrete Pavement | \$29,663.45 |

In option 3 and option 4 cost estimate is calculated using the Berry wine (DOT Red) colorant for the concrete mix.

Sincerely

Paul Vollert

**Public Works Superintendent** 

Weller



#### **Public Works Committee**

**Date of Request: 11/11/2022** 

Requestor: Joe Eichsteadt, City Engineer

**Request/Referral:** Remove no parking signs and ordinance on the south side of Clyde Street from 250 ft to 350 ft west of Lincoln St.

#### **Background information:**

The south side of Clyde St from 250 ft to 350 ft west of Lincoln driveway is signed "NO PARKING 7:30 AM TO 4:30 PM SCHOOL DAYS". The signs correspond with ordinance 27.13 (1)(c)(13) "[No Parking] Clyde Avenue, the south side, from a point 250 feet west of Lincoln Street to a point 350 feet west of Lincoln Street". The area is used as student pick up and drop for Grove Elementary. The area also includes the driveway entrance to the Grove Elementary parking lot.

There have been concerns that the no parking signs lead drivers to believe that no parking is allowed for the entire south side of Clyde Street from 16<sup>th</sup> to Sampson. This may be causing more drivers to park on Lincoln St during student pick up and drop off, causing congestion.

This was noticed to the Engineering Dpt by Officer Pelot (school liaison officer). The school has been contacted and is in favor of removing the signs.





#### **Options available:**

- Remove no parking signs and repeal ordinance
- Leave signs in place and modify parking ordinance to match the text on the signs AND to add text 'Between Signs'.

#### WISCONSIN



Action you are requesting the committee take: Remove no parking signs and repeal ordinance

How will the item be financed? N/A



#### **Public Works Committee**

Date of Request: 11/11/22

**Requestor: Alderperson Bemke** 

**Request/Referral:** Request by Gary Wilhorn, 4281 14th PI S, to install street lighting at the intersection of 14th PI S and Whitrock Ave.

#### **Background information:**

The intersection of Whitrock Ave and 14<sup>th</sup> PI S is a 3-way intersection of a local street and minor collector, respectively. Traffic on 14<sup>th</sup> PI S is controlled by stop signs and traffic on Whitrock Ave is uncontrolled. North of the intersection is a driveway entrance to Aborwood Lodge, a 48 unit assisted living facility.

The WisDOT Facilities Development Manual recommends a conservative approach to the use of lighting, primarily because of the high cost of installation, coupled with the long-term maintenance and energy expenditures involved.

There has been one accident at this intersection in the last 10 years. The incident occurred in the daytime.

WWLC fee for street light installation is \$722 plus additional ongoing fees for the light unit operation.

There is a two-block gap without street lighting on Whitrock Ave. Placing a light at 14<sup>th</sup> Pl S would reduce that unlit area.

Street Light Policy is attached.





**Options available:** There is not a strong case for a light at 14<sup>th</sup> PI S., but it certainly would not be detrimental. In fact, there is a more of a case for a light at 16<sup>th</sup> St S and Whitrock Ave.

- 1. Approve the installation
- 2. Forego the installation

Action you are requesting the committee take: Discretionary

How will the item be financed? 2022 Traffic Control Budget

#### WATER WORKS LIGHTING COMMISSION

#### **Estimate Sheet**

#### THIS IS AN ESTIMATE ONLY.

PSC 113.96: Upon completion of an installation which differs from the Utility's original cost estimate, a recalculation of the customer contribution shall be made using the same method as was used to determine the original contribution. If said recalculation differs by more than \$20 from original estimate, a refund or additional billing shall be rendered to the customer.

CITY OF WISCONSIN RAPIDS 1331 WHITROCK AVE DATED:

11/10/22

INSTALL 190' OF #6AT STREET LIGHT WIRE AND INSTALL

30 WATT LED LIGHT W/ 8' ARM

| 80 WATT LED LIGHT W/ 8' ARM           |                       |        |        |          |
|---------------------------------------|-----------------------|--------|--------|----------|
| ITEM (DESCRIPTION)                    |                       | NUMBER | PRICE  | COST     |
| #6AT STREET LIGHT WIRE                |                       | 190    | \$3.80 | 722.00   |
| #4/0 ATU 600 VOLT URD - TOTAL SERVICE |                       |        |        |          |
|                                       | 1ST 75 FEET           | 0      | 12.00  | FREE     |
|                                       | OVER 75 FEET          | 0      | 21.00  | 0.00     |
|                                       |                       |        | 650.00 | 0.00     |
| #4/0 ATU 600 VOLT URD - TOTAL SERVICE |                       |        |        |          |
|                                       | 1ST 75 FEET           | 0      | 12.00  | FREE     |
|                                       | OVER 75 FEET          | 0      | 21.00  | 0.00     |
|                                       |                       |        | 650.00 | 0.00     |
| #4/0 AQU 600 VOLT URD - TOTAL SERVICE |                       |        |        |          |
|                                       | 1ST 75 FEET           | 0      | 13.00  | FREE     |
|                                       | OVER 75 FEET          | 0      | 21.00  | 0.00     |
|                                       |                       |        | 650.00 | 0.00     |
|                                       | SUBTOTAL              |        |        | 722.00   |
|                                       | LABOR \$400/HR        |        | 400.00 | 722.00   |
| -                                     | ROST CHARGES PER FOOT |        | 4.00   | 0.00     |
| r                                     | CREDIT                |        | 4.00   | 0.00     |
|                                       |                       |        |        | \$722.00 |
|                                       | TOTAL                 |        |        | \$122.00 |

#### ENGINEERING DEPARTMENT POLICIES AND PROCEDURES

#### **SUBJECT:**

#### **Policy for Street Lights**

#### **PURPOSE**:

To set policy for adding, modifying, replacing, or installing new lighting facilities.

The purpose of street lighting, and the governance of this policy, pertain strictly to lighting the street right-of-way and in no way is intended to provide security lighting for private property. A request for street lighting, which in the professional opinion of the City Engineer and/or WWLC's Electrical Engineer is for private security purposes, is not provided by the City of Wisconsin Rapids and will be denied.

This policy is effective 4/21/2015.

#### POLICY:

#### **Light Fixture Standards**

• All new lighting fixtures shall be LED

#### **Pole Standards**

- Downtown areas to be black decorative poles with banner arms, flower basket arms and festoon outlets.
- Areas with green fiberglass poles will indefinitely remain as such, but will transition to white fiberglass poles in the future.
- Areas with existing wood poles and aerial power lines shall be wood poles.
- Areas with underground electric shall be white fiberglass poles.

#### **Street Lighting Design Standards**

These manuals will be consulted when adding, modifying, replacing, or installing new lighting facilities. Design standards provide guidance on recommended practices to facilitate and safeguard vehicular and pedestrian traffic within the street right-of-way.

- RP-8-14 publication from the Illuminating Engineering Society (IES)
- AASHTO Roadway Lighting Design Guide
- City of Wisconsin Rapids Lighting Specifications & Standards (NEW CONSTRUCTION)

#### **Requests for Street Lighting**

• Requests that are in accordance with the purpose of this policy shall require Council Approval unless street lighting is budgeted through street reconstruction projects and subsequently approved with the street reconstruction budget.

#### **Requests Above Standards**

- Street Lighting requests that are in accordance with the purpose of this policy can be upgraded above the pole standards based upon the following:
  - A requestor for street lights must pay initial installed costs above the standard pole costs.
     If the standard poles for street lights are already installed, then the requestor(s) would pay the whole cost above standard poles and fixture, plus removal costs of standard poles.

#### **PROCEDURES**:

- 1. A request shall be made to the Engineering Department and/or WWLC.
- 2. An internal review of the location and existing facilities will be made by the Engineering Department and WWLC staff in accordance with this policy and professional judgement.
- 3. Review the current budget.
- 4. Review the Capital Improvement Plan to see if the request can be filled in the near future.
- 5. Review compliance of the request with the Design Standards.
- 6. Refer item to the Public Works Committee.

| POLICY DATE: _       | SIGNATURE: |
|----------------------|------------|
| DEL (15) 4 / D 4 T 5 |            |
| REVIEW DATE:         | SIGNATURE: |



#### **Public Works Committee**

Date of Request: 11/11/22

Requestor: Joe Eichsteadt, PE City Engineer

**Request/Referral:** Review the traffic signal outage at 2<sup>nd</sup> Ave S and Riverview Expressway and consider spare equipment options in the event of future outages.

#### **Background information:**

2<sup>nd</sup> Ave S at W Riverview Expressway

Events starting 10/27/22 a vehicle accident impacted the traffic signal cabinet at the NW corner of the intersection at 2<sup>nd</sup> Ave and the Expressway. That afternoon a call was in to the equipment supplier to see if they had spares and an order placed. That evening there were discussions with DOT electricians on possible spares or other equipment options that could be utilized in the meantime. A red flasher unit was installed on Monday, 10/31/22, to illuminate the signal heads. By Thursday, November 3<sup>rd</sup>, a new cabinet was installed and the signals operational.

#### **Supply Chain**

Given the current supply chain issues, the supplier had just enough components to get a cabinet assembled for us in this short of time. The current delivery time, if ordered today, would be April.

#### Risk

Besides the original accident on the 27<sup>th</sup>, there was only one other accident recorded at 2<sup>nd</sup> Ave during the signal outage, which occurred on the 29<sup>th</sup>. However, for anyone that drove through that intersection during the outage it was chaotic and dangerous for vehicles and certainly not safe for pedestrians.

#### **Accident History**

Since 2008 there have been two cabinet impacts (8<sup>th</sup> St & Griffith and 2<sup>nd</sup> Ave S and Expressway). In checking with the former City Engineer, who was employed by the City for ~34 years, there was at least 1 or maybe 2 similar instances. Thankfully, this issues doesn't occur that often.

WISCONSIN



#### Comparison

Some communities (usually larger communities) choose to have a spare, some do not.

#### **Financing**

With accident damage such as this, the City is reimbursed (made whole) through insurance.

#### **Options available:**

- 1. Purchase a spare cabinet at a cost of approximately \$22,000 along with a red flasher unit for \$700.
- 2. Purchase a red flasher unit
- 3. Do nothing

**Action you are requesting the committee take:** approve the purchase of a spare cabinet and red flasher unit.

**How will the item be financed?** Utilize any remaining Traffic Control Budget dollars from 2022. Final numbers won't be available for a couple months. Also, some of the proposed 2023 dollars can be utilized for this purchase (\$10k to \$14k).



#### **Public Works Committee**

Date of Request: 11/11/22

Requestor: Joe Eichsteadt, PE City Engineer

**Request/Referral:** Request to solicit proposals for a Bridge Rehabilitation Report for the Grand Ave Bridge in preparation of applying for the 2024-2026 BIL Local Bridge program.

#### **Background information:**

The 2024-2026 BIL Local Bridge Program application is due March 24<sup>th</sup>, 2023 and requires that a Bridge Rehabilitation Report be completed, approved by the Bureau of Structures and submitted with the application. A Bridge Rehab Report is expected to be around \$15,000 to \$20,000.

The local bridge program is 80% state funded and 20% locally funded including design costs.

The Grand Ave Bridge rehabilitation work is included in the Public Works CIP for 2025.

The latest bridge inspection report is attached as is an example Bridge Rehabilitation Report.

#### **Options available:**

- 1. Approve solicitation of proposals and consider those proposals at a future meeting with the intent to pursue an application.
- 2. Do nothing at this time, but reconsider next budget cycle.

**Action you are requesting the committee take:** 1. Approve solicitation of proposals and consider those proposals at a future meeting with the intent to pursue an application.

**How will the item be financed?** Public Works Construction Fund - reserves



#### **Inspection Report for**

### B-71-057 (GRAND AVE.)

## E GRAND AVE over WISCONSIN RIVER 21 Oct 25,2022



| Туре       | Prior    | Team Leader               | Frequency (mos) | Performed |
|------------|----------|---------------------------|-----------------|-----------|
| Routine    | 06-30-22 | Green, Justin (4524)      | 24              |           |
| Interim    |          |                           |                 | X         |
| Uw-Dive    | 07-23-21 | Bigelow, Michael J (9628) | 60              |           |
| Reach All  | 06-30-22 | Green, Justin (4524)      | 24              | X         |
| SIA Review | 06-15-20 | Ortman, Joel (4526)       | 48              |           |
| Uw-Profile | 07-23-21 | Bigelow, Michael J (9628) | 60              |           |

E-signed by Justin Green(greenju17)

10-25-22

| SIA           | Review        |           | 06-15-20     | Ortman, Joel (4526)       | 48       |                |
|---------------|---------------|-----------|--------------|---------------------------|----------|----------------|
| Uw            | -Profile      |           | 07-23-21     | Bigelow, Michael J (9628) | 60       |                |
| Star          | t Coordinates |           |              | End Coordinates (op       | otional) |                |
| Latitude 44°  | °23'31.94"N   |           |              | Latitude                  |          |                |
| Longitude 89° | °49'36.98"W   |           |              | Longitude                 |          |                |
|               |               |           |              |                           |          |                |
| Owner CI7     | ГҮ            |           |              | Maintainer CITY           |          |                |
|               |               |           | Team members |                           |          |                |
| Time Log Ho   | urs           | Minutes   |              |                           |          |                |
| 2             |               | 0         |              |                           |          |                |
|               | mperature (f) | Condition |              |                           |          |                |
| 44            | •             | Overcast  |              |                           |          |                |
| Nan           | ne            |           | Number       | Signature                 |          | Signature Date |
| Inspector     |               |           | 4504         | Justin Green              |          |                |

4524

Green, Justin

#### page 2

#### **Identification & Location**

| Feature On:<br>E GRAND AVE           | Section Town Range:<br>S17 T22N R06E | Structure Number:             |
|--------------------------------------|--------------------------------------|-------------------------------|
| Feature Under:<br>WISCONSIN RIVER 21 | County:<br>WOOD                      | B-71-057                      |
| Location<br>0.5M N JCT STH 54 TO E   | Municipality: WISCONSIN RAPIDS       | Structure Name:<br>GRAND AVE. |

Geometry Traffic

| measurements in feet, except where noted |                       |                             |  |  |  |
|--|-----------------------|-----------------------------|--|--|--|
| Approach Roadway Width:                  | Bridge Roadway Width: | Total Length:               |  |  |  |
| 36                                       | 36.0                  | 532.3                       |  |  |  |
| Approach Pavement Width: 36              | Deck Width: 52.0      | Deck Area (sq ft):<br>27680 |  |  |  |

| _  | Lanes | ADT  | ADT year | Traffic Pattern |
|----|-------|------|----------|-----------------|
| On | 3     | 4800 | 2017     | TWO WAY TRAFFIC |
|    |       |      |          |                 |

Capacity Load Rating

| Jupuoity                    | Loud Hatting                           |                            |                   |
|-----------------------------|--|----------------------------|-------------------|
| Inventory rating: HS17      | Overburden depth (in): 0.0             | Last rating date: 12-21-09 | Controlling:      |
| Operating rating: HS30      | Deck surface material: CONCRETE        |                            | Control location: |
| Posting:                    | Emergency Vehicle Weight Limit (tons): |                            |                   |
| Re-rate for capacity (Y/N): | Re-rate notes:                         |                            |                   |

Hydraulic Classification

| Scour Critical Code(113): (8) STABLE-ABOVE TOP FOOTING | Q100 (ft3/sec):<br>78000  |                     |
|--|---------------------------|---------------------|
| High water elevation (ft): 992.8                       | Velocity (ft/sec):<br>9.1 | Sufficiency #: 68.8 |

Span(s)

| Span # | Material        | Configuration | Depth (in) | Length (ft) | Main |
|--------|-----------------|---------------|------------|-------------|------|
| 1      | CONT PREST CONC | DECK GIRDER   | 45         | 70.3        |      |
| 2      | CONT PREST CONC | DECK GIRDER   | 45         | 74.0        |      |
| 3      | CONT PREST CONC | DECK GIRDER   | 45         | 78.0        |      |
| 4      | CONT PREST CONC | DECK GIRDER   | 45         | 84.0        | Υ    |
| 5      | CONT PREST CONC | DECK GIRDER   | 45         | 78.0        |      |
| 6      | CONT PREST CONC | DECK GIRDER   | 45         | 74.0        |      |
| 7      | CONT PREST CONC | DECK GIRDER   | 45         | 70.3        |      |

| Expansion jo | oint(s)       |           | Temperature:         | File:70           | New:44           |
|--------------|---------------|-----------|----------------------|-------------------|------------------|
| Joint #      | Location      | Туре      | Last inspection date | Last measure (in) | New measure (in) |
| 1            | WEST ABUTMENT | STRIPSEAL |                      |                   |                  |
| 2            | EAST ABUTMENT | STRIPSEAL |                      |                   |                  |

#### Clearance

| Item                             | File Measurement (ft) | File Date | New Measurement (ft) |
|----------------------------------|-----------------------|-----------|----------------------|
| Highway Min Vertical On Cardinal |                       |           |                      |
| Horizontal On Cardinal           |                       |           |                      |

#### **Construction History**

| 1986 | NEW STRUCTURE   | 6999-05-16 |
|------|-----------------|------------|
| Year | vvork Performed | FOSIa      |

page 3 Structure No.:**B-71-057** 

#### **Maintenance Items**

| Item                                  | Priority | Recommended by       | Status     | Status change |
|---------------------------------------|----------|----------------------|------------|---------------|
| Expansion Joints - Clean              | HIGH     | Green, Justin (4524) | IDENTIFIED | 07/26/22      |
| ·                                     |          |                      |            |               |
| Comment:<br>Remove debris from joints |          | Status Comment:      |            |               |

#### **Elements**

|     |         |        |   |   |   |  |              | ondition State |       |
|-----|---------|--------|---|---|---|--|--------------|----------------|-------|
| Chk | Element | Defect | Description   | UOM   | Total   | 1                                      | 2            | 3              | 4     |
| X   | 12      |        | Reinforced Concrete Deck-Coated Reinforcing   | SF  | 27,680  | 26,713                                 | 937          | 30             | 0     |
|     |         |        | Delamination - Spall - Patched Area   | SF  |   | 0                                      | 11           | 0              | 0     |
|     |         | 1080   | Span 1 1-Transverse Crack near pier w/light efflor Span 2 Scattered Transverse Cracks w/light efflore Span 3  Bay 1 Crack (4'x8.5') near Pier 2 w/light effloresce Crack (4'x8.5') near Pier 3 CS2  Bay 2 Crack (4'x8.5') near Pier 3 w/light effloresce Bay 3 Transverse Crack near Pier 2 CS1  Transverse Crack near Pier 3 CS1  Repaired Delam 1' X 8' in bay 3 10' West of Pi Span 4 Crack (12'X8.5') near Pier 3 @ diaphragm (Span 5 Several transverse cracks near Pier 4 w/light Span 6 Minor cracking 36 SF CS1  Span 7 Good Condition no cracking - repairs made | scence nce CS nce CS er 3 CS CS1 nt efflore | (Approx 10<br>2<br>2<br>2 (Sound pescence (15 | 'X50') CS2<br>atched are<br>50 SF) CS2 | a)           | ned areas) (   | (3SF) |
|     |         |        | Cracking (RC)   | SF  |   | 88                                     | 926          | 30             | 0     |
|     |         | 1130   | See Notes in Delam - Spall - Patched Area Above Cracking by each Pier w/Efflo. West side: Pier 1 Span 1 52 SF CS2, Span 2 500 SF CS2 Span 3 102 SF CS2 52SF CS1 Span 4 102 SF CS2 Span 5 150 SF CS2 Span 6 0 CS2 36SF CS1 Span 7 0 CS2  | , Pier 2                                    | 2, Pier 3, Pi                                 | er 4, Pier t                           | 5, Pier 6: : | 20 CS2/30      | CS3   |
|     | 8000    |        | Wearing Surface (Bare) SEE ATTACHMENT   | SF  | 27,680  | 23,123                                 | 4,557        | 0              | 0     |
|     |         |        | <br> Debonding/Spall/Patched Area/Pothole   | SF  |   | 0                                      | 405          | 0              | 0     |
|     |         | 3210   | Several areas were repaired that had previously h<br>Patch at mid. bridge 27'x5' CS2 - 405 SF CS3   |   | spalled or                                    |  |              |                |       |
|     |         |        | Crack (Wearing Surface)   | SF  |   | 2,997                                  | 4,152        | 0              | 0     |
|     |         | 3220   | Several areas were repaired that previously had b<br>All cracks were filled and deck sealed since last ins<br>A few cracks need to be re-sealed   | een CS<br>pection                           | 2 or CS3 ci                                   | racking                                |              |                |       |
|     |         |        | Prestressed Concrete Open Girder  | LF  | 3,166   | 3,162                                  | 0            | 4              | 0     |
| X   | 109     |        | Span 1 All Good CS1 Span 2 Good Except by East Abut. See Commer Span 3 All Good CS1 Span 4 All Good CS1 Span 5 G1, G2, G5, G6 short cracks in West & East Ends  | - groute                                    |   | inj, All CS                            | 1            |                |       |
|     |         |        | Delamination - Spall - Patched Area   | LF  |   | 0                                      | 0            | 4              | 0     |
|     |         | 1080   | Span 2: Exposed Strands where girder meets  | pearing                                     | at East Ab                                    | outment. (                             | CS3 4LF      |                |       |

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| age    | 4   |      |   |   |  |   |                                       | Structure No.:           | B-71-05             |
|--------|-----|------|---|---|--|---|---------------------------------------|--------------------------|---------------------|
|        |     |      | Reinforced Concrete Pier Wall   | LF  | 101  | 61                                      | 0                                     | 40                       | 0                   |
| Х      | 210 |      | All of the piers exhibited a band of scaling at the vin. typical to 1/2 in. maximum penetration. Voids in steel.  | vaterline<br>Pier 3,                        | from 6 in. a<br>4, and 6 foo               | above to 6<br>otings up to              | in. below<br>o 1 ft. dee <sub>l</sub> | the waterling with no ex | e with 1/<br>cposed |
|        |     |      | Delamination - Spall - Patched Area   | LF  |  | 0                                       | 0                                     | 40                       | 0                   |
|        |     | 1080 | CS3 Spalls on piers 2, 3 and 5 footing. UWD 201   |   |  | U                                       |                                       | 1 40                     |                     |
|        |     |      | Scour   | LF  |  | 0                                       | 101                                   | 0                        | 0                   |
|        |     | 6000 | All the piers have CS2 scour.   |   | <u> </u>                                   |   |                                       |                          |                     |
|        |     |      | Reinforced Concrete Abutment  | LF  | 104  | 99                                      | 3                                     | 2                        | 0                   |
| X      | 215 |      | SEE ATTACHMENT  |   |  |   |                                       |                          |                     |
| $\top$ |     |      | Delamination - Spall - Patched Area   | LF  |  | 0                                       | 0                                     | 0                        | 0                   |
|        |     | 1080 | Delam, 2SF, 2LF bay 2   |   |  |   |                                       |                          |                     |
| -      |     |      | Cracking (RC)   | LF  |  | 0                                       | 3                                     | 2                        | 0                   |
|        |     |      | WEST ABUTMENT-2 VERT CRACKS.  | ļ   |  |   |                                       | 1                        |                     |
|        |     | 1130 | East Abutment Bay 2 - 1' TVC CS2, Bays 3 & 4 - e 2 LF bay 4 - CS2   | ach 1' T                                    | VC CS3 wit                                 | th lite rust s                          | stain in ba                           | y 4                      |                     |
|        |     |      | Reinforced Concrete Pile Cap/Footing  | LF  | 6  | 3                                       | 3                                     | 0                        | 0                   |
| x      | 220 |      | Voids in Pier 3, 4, and 6 footings up to 1 ft. deep   | with no e                                   | exposed ste                                | el.                                     |                                       |                          |                     |
|        |     | 1080 | Delamination - Spall - Patched Area   | LF  |  | 0                                       | 0                                     | 0                        | 0                   |
|        |     | 1000 | Cracking (RC)   | LF  |  | 0                                       | 0                                     | 0                        | 0                   |
|        |     | 1130 | 3(-7)   |   | <u> </u>                                   |   |                                       |                          |                     |
| f      |     |      | Abrasion-Wear (PSC-RC)  | LF  |  | 0                                       | 3                                     | 0                        | 0                   |
|        |     | 1190 | Minor abrasion on pile cap  |   |  |   |                                       |                          |                     |
| (      | 234 |      | Reinforced Concrete Cap   | LF  | 276  | 221                                     | 55                                    | 0                        | 0                   |
|        |     |      | Delamination - Spall - Patched Area   | LF  |  | 0                                       | 0                                     | 0                        | 0                   |
|        |     | 1080 | - Стания |   | <u> </u>                                   |   |                                       |                          |                     |
| ŀ      |     |      | Cracking (RC)   | LF  |  | 18                                      | 55                                    | 0                        | 0                   |
|        |     | 1130 | Pier Cap 1 - 4' CS1 & 10' CS2 (8 Trvs Crk east s<br>Pier Cap 2 - 2' CS1 & 10' CS2 (14 Trvs Crk east s<br>Pier Cap 3 - 2' CS1 5' CS2 (3 crks east side, 5 on v<br>Pier Cap 4 - 4' CS1 & 2' CS2 (4 tvc east side, 5 tv.<br>Pier Cap 5 - 6' CS1 & 8' CS2 - mainly center 1/3 of<br>Pier Cap 6 20' CS2 (10 vert crks east side 8 west s   | ide, 15 T<br>west, 2' s<br>c west si<br>cap | Frvs Crk we<br>spall south<br>ide) Spall o | st side - m<br>end east s<br>n both end | ostly cento<br>ide, expos<br>s        | er of pier)              |                     |
|        |     |      | Strip Seal Expansion Joint  | LF  | 98   | 26                                      | 66                                    | 6                        | 0                   |
| (      | 300 |      |   |   |  |   |                                       |                          |                     |
|        |     | 2310 | Leakage, Seal Adhesion, Damage,Cracking   | LF  |  | 0                                       | 0                                     | 0                        | 0                   |
| -      |     |      | Debris Impaction  | LF  |  | 26                                      | 66                                    | 6                        | 0                   |
|        |     | 2350 | West Abutment 36' CS2 debri Impaction. Steel plate covers outside 8' on all four corners of steel.  |   | <u> </u>                                   |   |                                       | <u> </u>                 | . <u> </u>          |

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| 31 | 11   | Moveable Bearing  | EA  | 60                         | 17                        | 40                            | 3          | 0                                     |
|----|------|---|---|----------------------------|---------------------------|-------------------------------|------------|---------------------------------------|
|    |      |   |   |                            |                           |                               |            |                                       |
|    |      | Corrosion   | EA  |                            | 17                        | 40                            | 3          | 0                                     |
|    | 1000 | West Abutment (6 Expansion Bronze Plates<br>Pier 1 - 12 Bearing Plates, lite to mod corrosic<br>Pier 2 - 12 Bearing Plates, bearings on exterior<br>Pier 3, 4 - Fixed CIP<br>Pier 5 - 12 Bearing Plates, all freckled rust CS<br>Pier 6 - 12 Bronze Plates, all freckled rust CS<br>East Abutment 6 Bronze Plates, B5 & B6 in C | on on all, exte<br>or girders (4 e<br>32,<br>2. | rior bearin<br>each) in CS | g show moi<br>2, remainir | re corr. 12 i<br>ng (8) in CS | n CS2<br>1 |                                       |
|    |      | Movement  | l EA  |                            | 0                         | 0                             | 0          | 0                                     |
|    | 2210 |   |   |                            | _                         | -                             | -          |                                       |
|    |      | Alignment   | EA  |                            | 0                         | 0                             | 0          | 0                                     |
|    | 2220 |   |   | 1                          | '                         | '                             | •          |                                       |
| +  |      | Reinforced Concrete Bridge Rail   | LF  | 1,091                      | 1,041                     | 50                            | 0          | 0                                     |
| 33 | 31   | TYPE H W/ GALV. RAIL; SCAT TVCS THRI  |   | . KUDDIN                   |                           |                               |            |                                       |
|    |      | Delamination - Spall - Patched Area   | LF  |                            | 0                         | 13                            | 0          | 0                                     |
|    | 1080 | North Rail - Popout/Delam under light pole w<br>South Rail - Popout/Spall 5' CS2<br>North Rail 1' Bay 5, 1' Bay 4<br>North Rail under center light pole 2' CS2  | vest end 4 CC                                   | 52                         |                           |                               |            |                                       |
|    |      | Cracking (RC)   | LF  |                            | 64                        | 37                            | 0          | 0                                     |
|    | 1130 | Scattered Traverse Cracks Throughout<br>North rail 35' CS1 22' CS2<br>South rail 29' CS1 22' CS2  |   |                            |                           |                               |            |                                       |
|    |      | Integral Wingwall   | EA  | 4                          | 4                         | 0                             | 0          | 0                                     |
| 84 | 00   | SEE ATTACHMENT  |   |                            |                           |                               |            |                                       |
|    |      | Wall Movement   | EA  |                            | 0                         | 0                             | 0          | 0                                     |
|    | 8902 |   | ,   |                            | •                         |                               | 1          |                                       |
|    |      | Wall Deterioration  | EA  |                            | 0                         | 0                             | 0          | 0                                     |
|    | 8903 | NORTHWEST CORNER- 2'X2' SPALL WITH<br>SOUTHWEST CORNER- SMALL VERT AND  | -I CRACKING                                     |                            |                           |                               |            | · · · · · · · · · · · · · · · · · · · |

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#### **Assessments**

| 1331 | 555111 <del>C</del> 1 |  |   |   |  | Quantity in Co                             | ondition State                           |                     |
|------|-----------------------|--|---|---|--|--|--|---------------------|
| Chk  | Element               | Defect Description   | UOM   | Total   | 1  | 2  | 3  | 4                   |
| Х    | 9001                  | Drainage - Ends of Structure   | EA  | 4   | 4  | 0  | 0  | 0                   |
|      |                       | Sidewalk   | EA  | 2   | 0  | 2  | 0  | 0                   |
| X    | 9009                  | Scattered Transverse Cracks Throughout, lit SW Pier 1, north side, minor efflorescence univers 3 & Pier 4,  Minor spall on North side, East edge, and West N. side approx. 130' cracking Has been crack filled - North: 10' new CS2, Some SEE ATTACHMENT. AREAS OF SPALLING CURB FACES. OTHER SPALLING AND CRA   | der SW on so<br>st edge<br>outh: 15' new<br>WITH EXPC   | outh side s<br>CS2<br>SED REB                     | oan 2 & 3, c   | crack unde                                 | r SW north                               | side @              |
| Х    | 9011                  | Utilities 4 - electric (lights), telephone 8 conduits, gas   | EA<br>s, water  | 4   | 4  | 0  | 0  | 0                   |
| Х    | 9045                  | Slope Protection- Riprap   | EA  | 2   | 2  | 0  | 0  | 0                   |
| X    | 9168                  | Concrete Diaphragm  CIP; PIERS AND MIDSPAN; SCAT CRKS, E Pier Cap 1- North: 3-1'x1' Spalls CS2; South Pier Cap 2- North: 3-1'x1' Spalls CS2, 1-2'x1 Pier Cap 3- North: 1-2'x2' Spall CS2, 1-1'x'1 w/exposed rebar CS3, 1-1'x1' Spall CS2 Pier Cap 4- North: 1-2'x1' Spall CS2, 1-2'x1' Pier Cap 5- North: 1-1'x1' Spall CS2, 1-2'x1' rebar CS3, 1-2'x1' Spall w/Delam CS2, 1-1'x Pier Cap 6- North: 1-1'x1' Spall CS2; South Spall CS2 | n: 2-1'x1' Spall CS2,<br>Spall w/Del<br>Spall w/exp<br>Spall w/exp<br>Spall w/exp<br>1' Spall CS2 | alls CS2<br>1-3'x2' Spa<br>am CS2, 3<br>osed reba | all w/ expos<br>' Delam CS<br>ir CS3; Sou<br>ir CS3; Sou | 32; South:<br>uth: 1-2'x2'<br>uth: 1-2'x'1 | 1-1'x1' Sp<br>' Spall CS2<br>' Spall w/e | all<br>2<br>exposed |
| Х    | 9322                  | Approach Roadway - Concrete (non-structing CRACKS AND LITE SPALL EAST., Trans craws the CRACKS Approach spall repaired. MASTIC   |   | 2<br>side @ br                                    | 1<br>idge  | 1  | 0  | 0                   |
|      |                       | Decorative Rail  | EA  | 2   | 0  | 2  | 0  | 0                   |
| Χ    | 9335                  | Galvinized starting to wear  |   |   |  |  |  |                     |

#### **NBI** Ratings

|                | File | New |
|----------------|------|-----|
| Deck           | 7    | 7   |
| Superstructure |      | 7   |
| Substructure   | 6    | 6   |
| Culvert        |      | N   |
| Channel        | 8    | 8   |
| Waterway       | 8    | 8   |

Structure Specific Notes

Nameplate in SW wingwall

Inspection was initiated on 6-9-16 with WDOT Snooper truck. J. Green & R Hawk inspected the underside of the deck, piers, girders, and abutments, also partially inspected the deck.

On 7-11-16 B Dammann & R Hawk completed the inspection of the deck, SW, railing and approaches.

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#### **Inspection Specific Notes**

Swallow nests throughout

Maintain brush and vegetation near west abut

Clean expansion joints

Seal cracks & repair spalls on sidewalk and concrete railing

Monitor delam and spalls on deck

Monitor corrosion on bearings

The 2016 UWD was done on 7/11/16, HSI would not allow, so it went in as 7/12/16.

#### **Inspector Site-Specific Safety Considerations**

Traffic Control provided by City of Wisconsin Rapids

Steps to abutment in SW corner

#### **Structure Inspection Procedures**

Schedule inspection same day as Jackson St Bridge B-71-11

Inspect with minimum 2 WCH inspectors and DOT Reachall Truck to reduce amount of time City of WR has to maintain traffic control. Utilize closure or detour for reachall truck to inspect surface at the same time.

UW Profile performed by DOT staff - side imaging and sonar devices

UW Dive inspection completed by KBIS

#### **Routine Specific Procedures (prior)**

The City of WR has a project on Jackson St Bridge and so the traffic was moved to W Grand Bridge and therefore the Reachall was not able to do the bottom side of the bridge inspection. The Reachall will be back in September to redo the inspection and the full bottom side. See attachments from previous inspection for June completion.

#### **Interim Specific Procedures**

#### Special Requirements

|                           | Chk | Hours | Cost | Comments  |
|---------------------------|-----|-------|------|---|
| Traffic Control           | Х   |       |      | Traffic Control provided by City of Wisconsin Rapids  |
| A52 Reach-All Unit        | Х   |       |      |   |
| Other Access<br>Equipment |     |       |      | Bottomside of deck and substructure units inspected by DOT's Reachall Truck. Topside inspected by foot. |

page 8 Structure No.: **B-71-057** 

#### **Underwater Probe Form** B-71-057

#### **General Site Conditions - Scour**

Minor local at each pier.

## General Site Conditions - Embankment Erosion/Conditions Both embankments are stable and protected with heavy rip rap.

#### **Substructure Notes**

| Chk |              | Max Water Depth(ft) | Mode  | Notes  |
|-----|--------------|---------------------|-------|--|
| X   | Cardinal     |                     | Dry   |  |
| X   | Pier 1       | 5.5                 | Scuba | Scaling at the waterline up to 1/4 in deep from 6 in above to 6 in below the waterline typical. Top footing completely exposed (2 ft vertically). Bottom footing exposed on the north and east faces up to 1 ft vertically. Probe did not penetrate the streambed. Void NW corner.   |
| X   | Pier 2       | 6.7                 | Scuba | Scaling at the waterline up to 1/4 in deep from 6 in above to 6 in below the waterline typical. Top footing completely exposed with several small voids in the top face. Bottom footing exposed around entire perimeter, vertical exposure up to 4 ft maximum. Probe did not penetrate the streambed. Has gap in concrete at bottom, East face.  |
| X   | Pier 3       | 6.5                 | Scuba | Scaling at the waterline up to ½ in deep from 6 in above to 6 in below the waterline typical. Top footing completely exposed. Bottom footing exposed around entire perimeter with vertical exposure of 4 ft. Void in top of bottom footing and into top footing 2 ft L x 2 ft W x 3 in D with no exposed steel. Void in NE corner of bottom footing 2 ft L x 1 ft H x 4 in D. Probe did not penetrate the streambed. Has gap in concrete at bottom, East face. |
| X   | Pier 4       | 6.8                 | Scuba | Scaling at the waterline up to ½ in deep from 6 in above to 6 in below the waterline typical. Top footing completely exposed. Void in east side of top footing 8 ft L x 4 in H x 1 ft D. Bottom footing exposed around entire perimeter, vertical exposure up to 4 ft maximum at the upstream nose. Probe did not penetrate the streambed.   |
| X   | Pier 5       | 6.7                 | Scuba | Scaling at the waterline up to ½ in deep from 6 in above to 6 in below the waterline typical. Top footing completely exposed. Bottom footing exposed around entire perimeter, vertical exposure up to 3 ft maximum at the north face. Probe did not penetrate the streambed. CS3 Spall, 10 ft long, 3 inch high, 1 inch deep, at pier wall and footing. No cracks.   |
| X   | Pier 6       | 5.2                 | Scuba | Scaling at the waterline up to 1/4 in deep from 6 in above to 6 in below the waterline typical. Minor spall in NW and NE corners of the footing. Void in NE corner of shaft and top of footing 2 ft L x 3 in H x 4 in D. Top footing completely exposed. Bottom footing exposed around entire perimeter up to 2 ft vertically. Probe did not penetrate the streambed.  |
| X   | Non Cardinal |                     | Dry   |  |
|     |              |                     |       |  |

page 9 Structure No.: **B-71-057** 

#### **Interim Item 1**

| PIER CAP DRAWING | b71-057_22_xtd1.pdf (included) |
|------------------|--------------------------------|
|                  |                                |

#### **Interim Item 2**

PIER 2, BAY 3- NORTH



Linked Element(s): Concrete Diaphragm

#### **Interim Item 3**

PIER 3 WEST EDGE



b71-057\_22\_xtd3.jpg

Linked Element(s): Concrete Diaphragm

#### **Interim Item 4**

PIER 4 BAY 5-NORTH



Linked Element(s): Concrete Diaphragm

page 10 Structure No.: **B-71-057** 

#### **Interim Item 5**

PIER 5, BAY 5-NORTH



Linked Element(s): Concrete Diaphragm

#### **Interim Item 6**

PIER 5 BAY 1-SOUTH



b71-057\_22\_xtd6.jpg

Linked Element(s): Concrete Diaphragm

#### **Interim Item 7**

PIER 5 BAY 1 - SOUTH



b71-057\_22\_xtd7.jpg

Linked Element(s): Concrete Diaphragm

Structure No.:**B-71-057** page 11

#### **Interim Item 8**

EAST ABUT EXPOSED STRANDS



Linked Element(s):
Prestressed Concrete Open Girder
Reinforced Concrete Abutment
Strip Seal Expansion Joint

#### **Interim Item 9**

HEAVY SPALL PIER 1 DIAPHRAGM WEST EDGE



b71-057\_22\_xtd9.jpg

Linked Element(s): Concrete Diaphragm

#### **Interim Item 10**

PIER 4 WEST EDGE DIAPHRAGM



Linked Element(s): Concrete Diaphragm

page 12 Structure No.: **B-71-057** 

#### **Interim Item 11**

DECK CRACKING



Linked Element(s): Reinforced Concrete Deck-Coated Reinforcing

#### Interim Item 12

DECK CRACKING WITH EFFLO.



b71-057\_\_xtd12.jpg

Linked Element(s):
Reinforced Concrete Deck-Coated Reinforcing

#### **Interim Item 13**

DECK CRACKING WITH EFFLO



b71-057\_\_xtd13.jpg

Linked Element(s): Reinforced Concrete Deck-Coated Reinforcing

page 13 Structure No.: **B-71-057** 

#### **Interim Item 14**

WEST ABUT BEARING



Linked Element(s):
Reinforced Concrete Abutment
Strip Seal Expansion Joint
Moveable Bearing

#### **Interim Item 15**

UWD

b71-057\_\_xtd15.pdf (included)

# **Interim Item 16**

CS3 scaling, Pier 3



Linked Element(s):
Reinforced Concrete Pier Wall

# **Interim Item 17**

Diagram of deck deficiencies

b71-057\_\_xtd17.pdf (included)

Linked Element(s):

Reinforced Concrete Deck-Coated Reinforcing

# **Interim Item 18**

SPALLING WITH EXPOSED REBAR ON SIDEWALK CURB FACE, SOUTH SIDE, NORTH EDGE.



b71-057\_\_xtd18.jpg

Linked Element(s):

Sidewalk
Reinforced Concrete Deck-Coated Reinforcing -> Wearing Surface (Bare)

page 14 Structure No.: **B-71-057** 

# **Interim Item 19**



b71-057\_\_xtd19.jpg

Linked Element(s):
Reinforced Concrete Bridge Rail
Sidewalk
Reinforced Concrete Deck-Coated Reinforcing -> Wearing Surface (Bare)

# **Interim Item 20**

| ABUTMENT DRAWING | b71-057xtd20.pdf (included) |
|------------------|-----------------------------|
|------------------|-----------------------------|

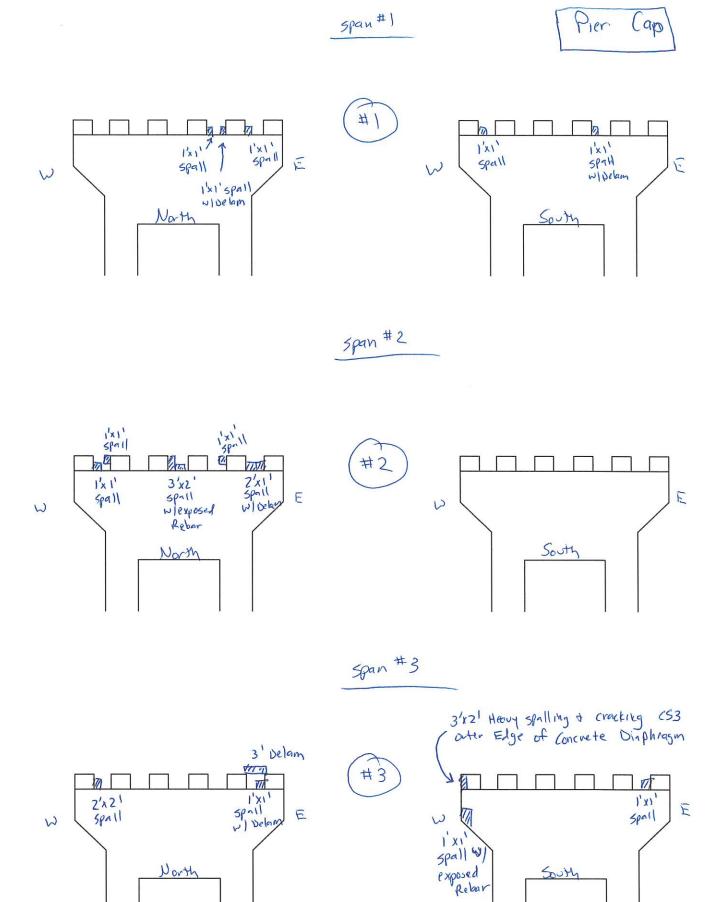
# **Interim Item 21**

| SIDEWALK DRAWING            | b71-057xtd21.pdf (included) |
|-----------------------------|-----------------------------|
| Linked Element(s): Sidewalk |                             |

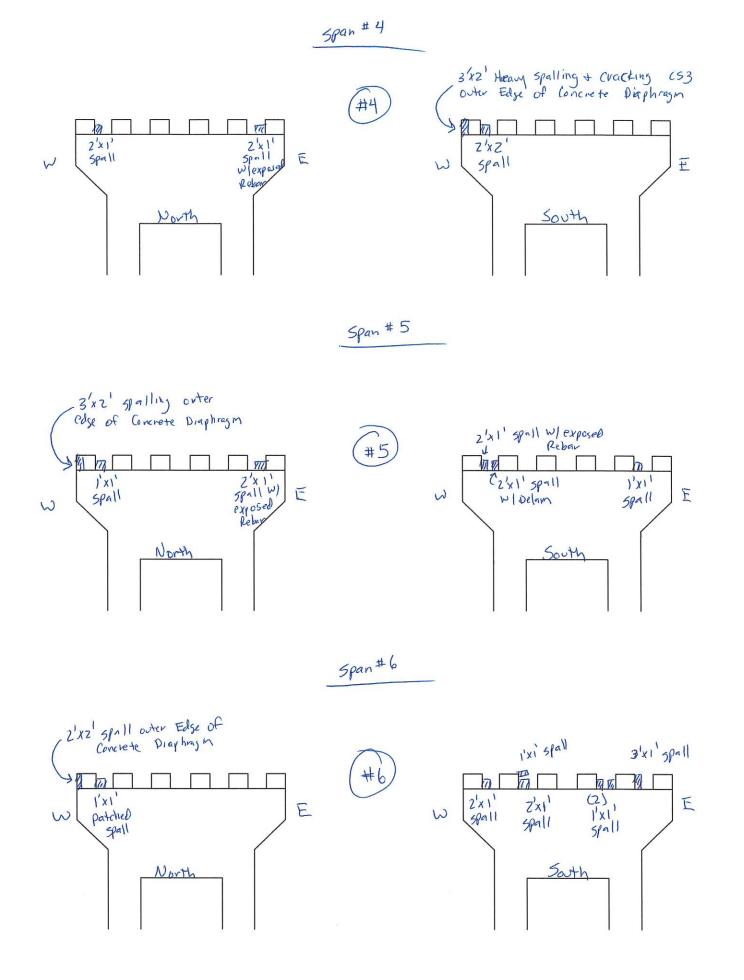
# **Interim Item 22**



Linked Element(s): Concrete Diaphragm



span#4



span #7

782

Dive Inspection Procedure for: B-71-057

#### Procedure:

Enter water from the shore. The two divers will swim to the first pier. The divers will descend down the wall. The divers will look for scour around the bottom. If footing/seal is exposed the divers will determine if it exposed. The divers will then progress up the wall in a spiral pattern to ensure 100% coverage of the pier. If any major deficiencies the divers will either document the notes or will communicate them to the surface. The divers will exit the water at the same entry point.

Metric Items for diving of the abutments.

No Scour Countermeasures present/needed.

No Special Access needed, shore is adequate, boat landing also adjacent for use.

The units to be dove are all 6 piers. It will need to have a UW Dive and UW profile Inspection every 60 months.

Inspection equipment for 2021 dive was dive gear, light, probe, hammer.

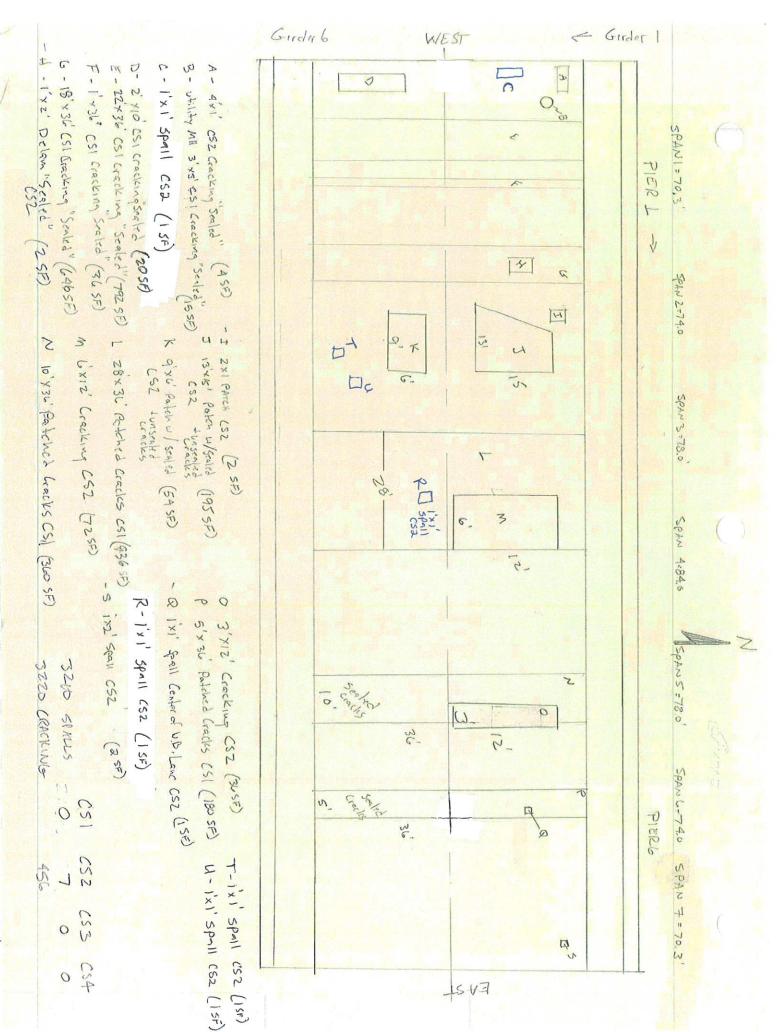
The high risk factor are not present on this structure. Boat traffic needs to be considered.

No debris piles, hard bottom, etc. High water events would present a risk factor that may terminate dive plans until the water returns to normal. Moderate level of risk would be current, boat traffic, minor debris, and visibility. All factors that can be mitigated.

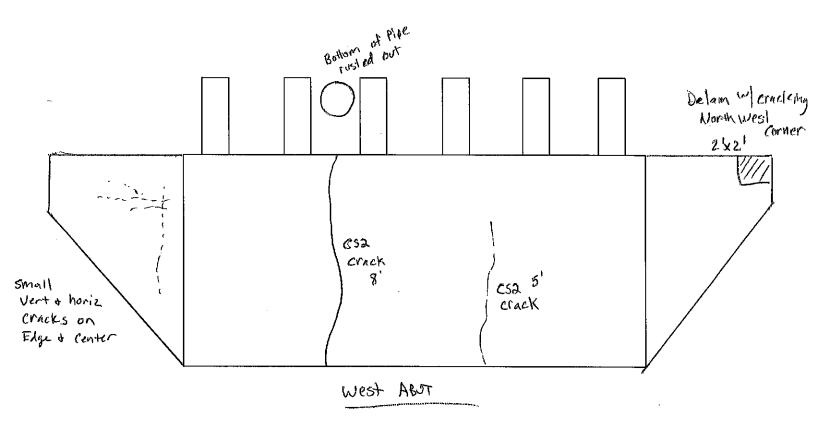
All divers will need to be certified divers, and the team leader will need the FHWA Underwater Inspection course. Each diver will need to be a WisDOT qualified bridge inspector at a minimum. The Underwater Course is highly suggested of each member.

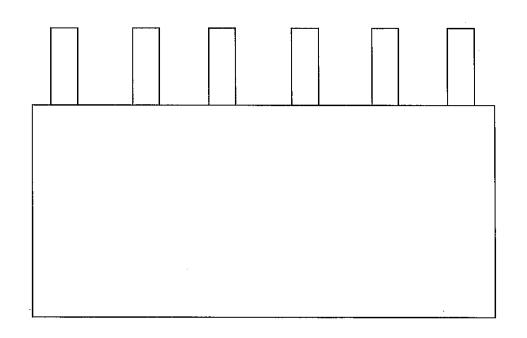
The waterway has no special contacts or requirements.

Scheduling concerns would only be high water.



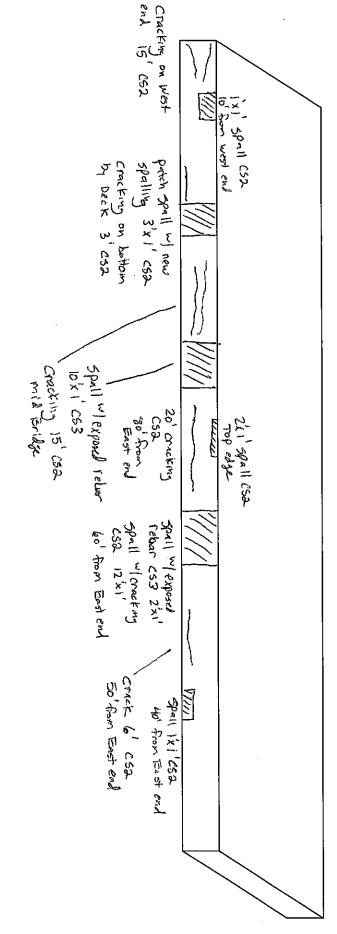
\* UPDATED-6/30/22 \*





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end



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6/30/22

# B-43-0046 TOWN ROAD X ONEIDA COUNTY BRIDGE REHABILITATION REPORT



PREPARED BY





Engineers - Architects - Surveyors www.jewellassoc.com 560 SUNRISE DRIVE SPRING GREEN, WI 53588 608-588-7484 Concur with recommendations subject to comments on page 2/62 RAC WisDOT Bureau of Structures 3-22-2022

Comments 3-22-2022

B-43-46

By RAC

We concur with recommended **Alternative 2: Rehabilitation of the Existing Structure** subject to the following comments:

BOS recommends that a 3D acoustic image of each pier be obtained to provide the most accurate estimates of removals and placement quantities.

#### **INTRODUCTION**

Structure B-43-0046 is located on Town Road X over the Eagle River, 4 miles North of the Town Road X and STH 32 junction, near the Town of Three Lakes, Oneida County, Wisconsin (See Exhibit A, Project Location Map). The Town of Three Lakes initiated this report to determine the feasibility and cost effectiveness of the rehabilitation of this structure versus replacement.

The existing structure B-43-0046 was built in 1996. It is a 202.5 feet long four span reinforced concrete haunched slab structure (See Exhibit B, Existing Plans B-43-0046). The superstructure has a 20 inch slab thickness and 34 inch haunch thickness. The abutments are reinforced concrete Type A1 abutments with fixed seats, supported on 10.75-inch cast-in-place concrete piling. The wings are 45 degrees with respect to the abutment centerline. The existing structure has three piers. Each pier is a reinforced concrete pile encased pier supported on 10.75-inch cast-in-place concrete piling. The existing structure has a clear roadway width of 26 feet and Type F tubular steel railings.

The Highway Structures Inventory, produced by the Wisconsin Department of Transportation, indicates that average daily traffic on this section of Town Road X is approximately 365 vehicles per day (See Exhibit C, Average Annual Daily Traffic). Assuming an annual traffic increase of 2%, the Average Daily Traffic in the design year 2043 is estimated to be 670 vehicles per day. Town Road X is functionally classified as a minor collector.

#### **INSPECTION**

The existing structure was visually inspected with an underwater dive inspection in July of 2021. All units of the structure were accessible to the inspector with the aid of a boat. (See Exhibit D, Inspection Report and Photos). The following is a summary of the inspections.

**Piers** – Reinforced concrete pier walls show segregation of the concrete near the waterline and streambed. Concrete spalling is noted on each pier wall, with exposed reinforcing steel. Exposed piling is noted on Piers 1 and 2, where moderate mature MIC (Microbiologically Influenced Corrosion) is present on both the rebar and the piling. Piers 2 and 3 have voids through the width of the piers. See Exhibit D for detailed description and pictures of deficiencies.

**Abutments** – Each abutment has one vertical medium width crack.

**Deck/Slab** – cracking is noted on the top and bottom of slab. Some of the cracks exhibit the presence of efflorescence. No delamination was noted.

Metal Bridge Rail – minor rusting and scraping throughout.

**Bituminous Approach** – Slight settlement at both asphaltic approaches.

#### **SUFFICIENCY RATING**

The method of reporting the structure's sufficiency to remain in service is by evaluating a number of factors and calculating a sufficiency rating. The method used for this calculation follows the Federal Highway criteria. A totally sufficient bridge has a rating a 100 while a totally insufficient bridge would have a rating of 0. Existing bridge B-43-0046 currently has a sufficiency rating of 65.1 (see Exhibit E, Existing Bridge Sufficiency Rating). The bridge is classified as structurally deficient because the condition of the substructure is rated 4.

#### **ALTERNATIVES**

Three alternatives were evaluated as a part of this study:

## Alternative 1. Do Nothing

This alternative would allow the bridge to remain in service but it will continue to deteriorate to a point where the piers would need to be replaced. The bridge piers are showing areas of corrosion and concrete deterioration. Exposed reinforcing bars near the water surface will continue to corrode. MIC (Microbiologically Influenced Corrosion) will continue to corrode the piling at an advanced rate, decreasing the life expectancy of the bridge.

This alternative would not result in correction of the deficiencies. The eventual result is a bridge substructure with compromised structural integrity. This would lead to eventual road closure.

### Alternative 2. Rehabilitation of the Existing Structure

This alternative consists of repairing the bridge piers to correct the deficiencies. Spalled concrete surfaces will be cleaned with all loose concrete removed. Corroded reinforcing steel will be replaced with new reinforcing steel. All exposed steel would be cleaned to remove MIC. The whole pier would be encased with structural grout. (See Exhibit I – Rehabilitation Plan).

The inventory rating of the existing structure is HS25 and operating rating is HS42. These values were calculated by the Department of Transportation.

Hydraulic impacts of the added pier width will need to be determined during design, as well as coordinating with dam owners/licensee for the potential impact from the rehabilitation project. An underwater inspection is due July, 2022 and the owner will request that a more detailed report of both quantity and location of needed repair areas is completed.

It is estimated that the cost of this structure rehabilitation project to be \$1,128,035 (see Exhibit G, Structure Rehabilitation and Structure Replacement Costs). It is anticipated that this work will provide up to 57 years of additional use before replacement would be required.

The sufficiency rating of this structure, once rehabilitation has taken place, would be approximately 92.4 (see Exhibit F, Proposed Bridge Sufficiency Rating After Rehabilitation).

# Alternative 3. Replace the Existing Structure

This alternative involves removing the entire existing structure and replacing it with a four span reinforced concrete haunched slab bridge. The proposed bridge would have a clear roadway width of 30 feet and new tubular railing Type M will be installed on both sides.

The abutments will consist of Type A1 with fixed seats supported on steel pilings, with wings parallel to the roadway. The piers will be pile encased piers supported on steel pilings.

At this time the existing bridge is not eligible for Federal Bridge Replacement Funding because the current sufficiency rating is 65.1. To be eligible for replacement the sufficiency rating would need to be 50 or under. The Town of Three Lakes would have to fund the entire replacement project at this time.

It is estimated that the cost of replacing this structure to be \$2,028,313 (see Exhibit G, Structure Rehabilitation and Structure Replacement Costs). It is anticipated that this work will provide up to 87 years of additional use before replacement would be required. The sufficiency rating of this structure, once replaced, would be approximately 100 as it would be totally sufficient.

#### **RECOMMENDATION**

A Life-Cycle Cost Analysis, per FHWA publication Life-Cycle Cost Analysis Primer, was performed to compare the Structure Rehabilitation Alternative with the Structure Replacement Alternative (see Exhibit H, Life Cycle Cost Analysis). The analysis assumed a 5% discount rate and an analysis period of 87 years. A summary of the Life-Cycle Cost Analysis follows:

#### Alternative 1. Do Nothing

Not recommended because this alternative does not remove the structural deficiency of the existing bridge.

# Alternative 2. Rehabilitation of the Existing Structure

Assume 57 year service life with structure replacement at year 57.

Federal Cost (in present dollars) = \$1,334,574

Municipality Cost (in present dollars) = \$337,765

Alternative 3. Replace the Existing Structure
Assume 87 year service life.
Federal Cost (in present dollars) = \$98,451
Municipality Cost (in present dollars) = \$2,119,430

Jewell Associates Engineers Inc. recommends **Alternative 2 – Rehabilitation of the Existing Structure** due to the lower Total Life Cycle Cost of \$1,672,339 and Municipality Life Cycle Cost of \$337,765 compared to the other alternative. This alternative provides the best value for the Town of Three Lakes. Advantages of this alternative include increasing the sufficiency rating to 92.4 and maintaining a load rating higher than HS20.

The purpose of the recommended alternative is to correct existing structural deficiencies, which will remove all structural defects in a cost effective manner.

This proposed alternative will extend the life of Structure B-43-0046 beyond the 10 year minimum requirement of Trans 213.03, is the most cost effective alternative, and will remove all structural deficiencies. It is the Town of Three Lake's desire to extend the life of this bridge with the proposed rehabilitation.



# **Public Works Committee**

Date of Request: 11/28/22

Requestor: Joe Eichsteadt, City Engineer

**Request/Referral:** Request to apply for a Highway Safety Improvement Program grant for pedestrian safety improvements at Wood Ave and 8th St S.

# **Background information:**

Highway Safety Improvement Program (HSIP) is a 90% State/Federal and 10% local cost.

8<sup>th</sup> St & E Grand and 8<sup>th</sup> St and Chestnut St intersection projects were HSIP projects.

Tony Kemnitz, Traffic Safety Engineer at the DOT contacted us regarding WIS 13 and Wood Avenue. This intersection was identified as a potential crash location of concern. As part of the DOT's annual safety screening, they evaluate all intersections on the State highway network, including those intersections on Connecting highways. The intersection at WIS 13 and Wood Avenue ranked 14<sup>th</sup> in the NC region so they pulled crash reports and developed the attached crash plot. It appears that there is a need to better enhance motorist's awareness of the pedestrian cross walk at this location similar to the ped crossing at 8<sup>th</sup> St and Grove Ave.

We have developed an exhibit and are completing a cost estimate in preparation of the DOT's initial ranking. If it meets the DOT's ranking we would need to have applications in by February 1<sup>st</sup>, 2023.

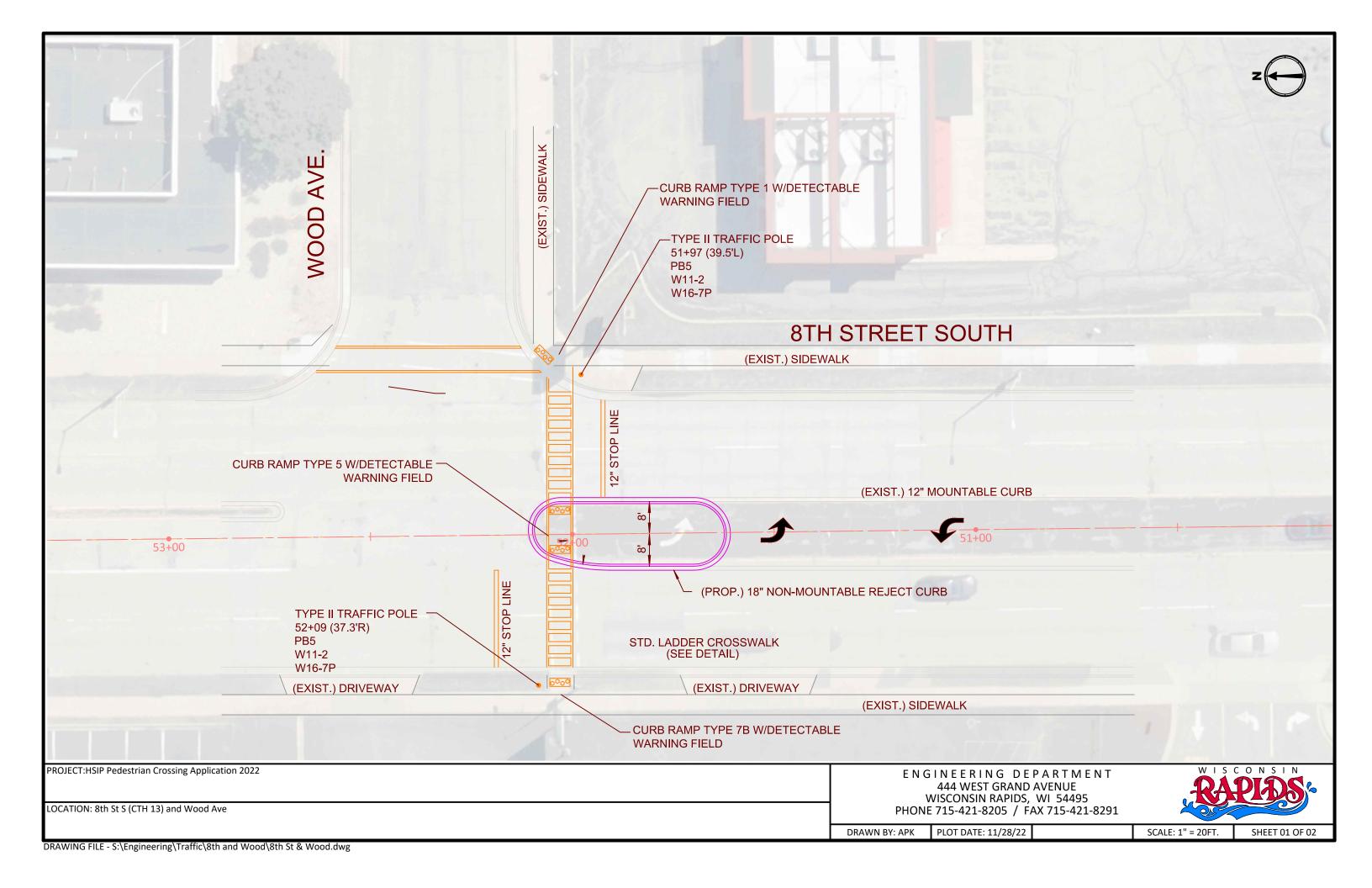
PW Committee & Council approval is in preparation if the project meets ranking as well if it is something the City would like to pursue.

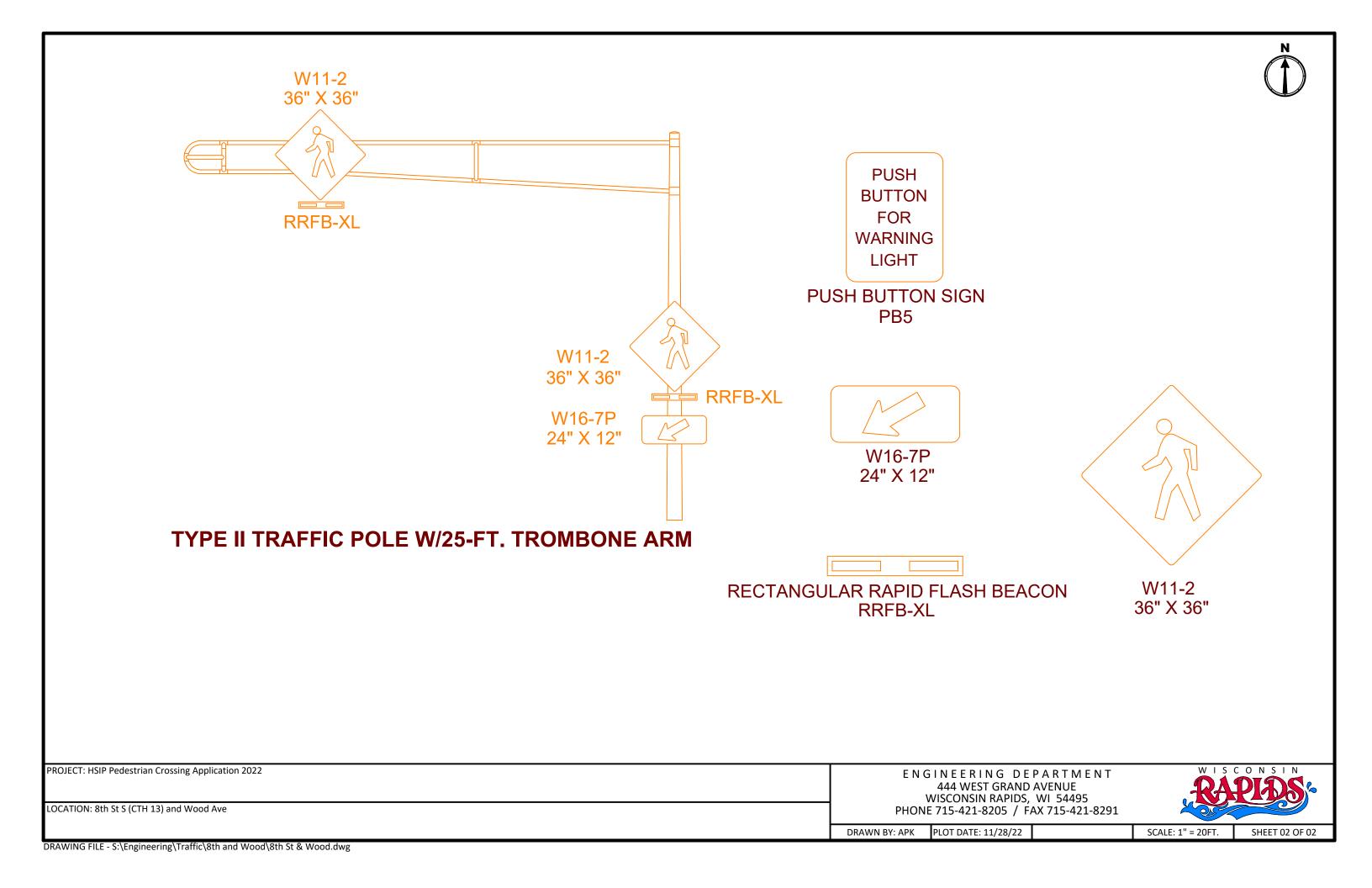
#### **Options available:**

- 1. Approve applying for the HSIP funding for pedestrian improvements at 8<sup>th</sup> St S and Wood Ave, if eligible.
- 2. Do nothing

**Action you are requesting the committee take:** 1. Approve applying for the HSIP funding for pedestrian improvements at 8th St S and Wood Ave, if eligible.

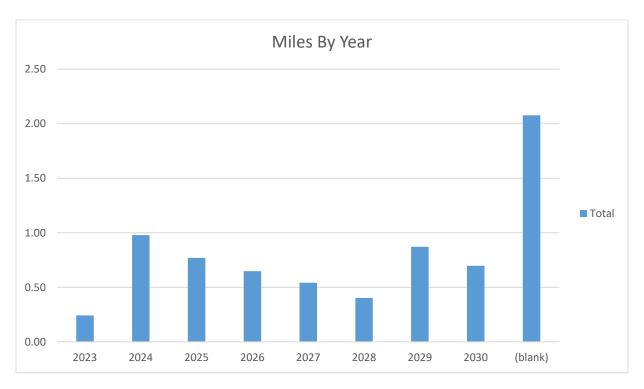
**How will the item be financed?** 2024 or 2025 Public Works Construction Fund at 10% of the project cost.



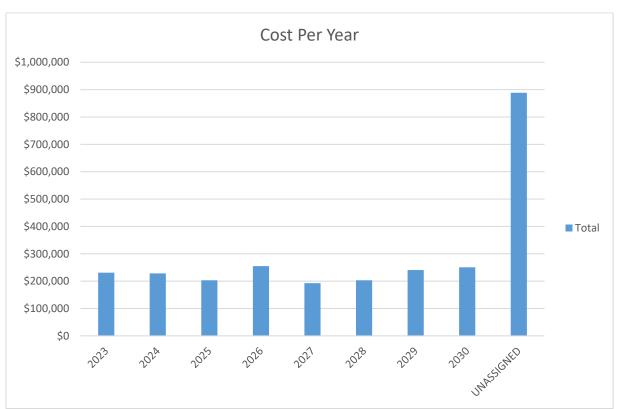


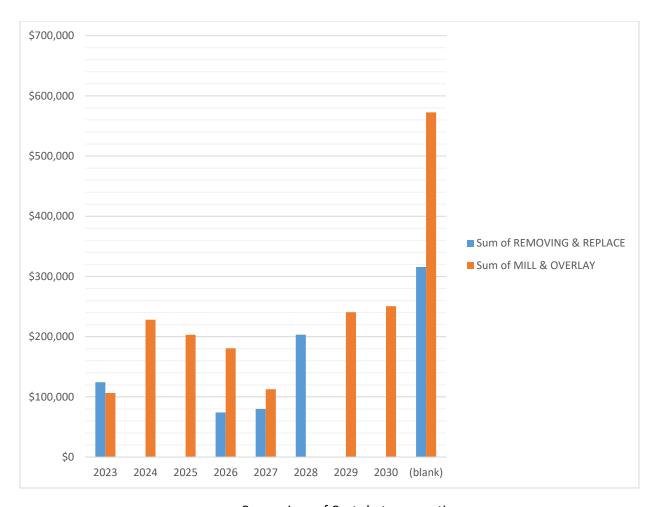
# **PAVEMENT REPLACEMENT PLAN**

# 12/2/2022



- 7.23 Miles Identified
- 5.15 Miles Assigned by year
- Average Miles Per Year = 0.64





# Comparison of Costs between options

- All Roads Remove & Replace = \$3.04 M
  - All Roads Mill & Overlay = \$2.2M

| PAVEMENT REPLACE | MENT PLAN |
|------------------|-----------|
|------------------|-----------|

\$11.04 2" mat per SY \$13.80 2.5" mat per SY

|                   |                   |                     | 1       |              |      | ī              |   |      |    |        | 2.5" mat per SY |      |               |
|-------------------|-------------------|---------------------|---------|--------------|------|----------------|---|------|----|--------|-----------------|------|---------------|
| STREET NAME       | FROM              | ТО                  | SY      |              |      | MILL & OVERLAY |   |      |    | FT     |                 |      | TOTAL COST    |
| 32ND STREET NORTH | WASHINGTON STREET | NORTON STREET       | 6246    | \$124,378.35 |      | \$106,455.26   |   | 1996 | 26 |        |                 |      | \$ 230,833.62 |
| 20TH STREET SOUTH | GRIFFITH AVENUE   | TWO MILE AVENUE     | 10009   |              | 2024 | \$170,590.89   | L |      |    | 3879   | 0.73            |      | \$ 170,590.89 |
| TWO MILE AVENUE   | 16TH STREET SOUTH | CITY LIMITS         | 3379    |              | 2024 | \$57,590.83    |   |      |    | 1287   | 0.24            |      | \$ 57,590.83  |
| PLOVER STREET     | 1ST STREET NORTH  | APRICOT STREET      | 4991    | \$0.00       |      | \$85,065.36    |   | 1973 | 49 |        | 0.28            |      | \$ 85,065.36  |
| 16TH STREET NORTH | TWO MILE AVENUE   | KUHN AVENUE         | 6929    |              | 2025 | \$118,096.14   | Α |      |    | 2604   | 0.49            |      | \$ 118,096.14 |
| BIRCH STREET      | 3RD STREET SOUTH  | LINCOLN STREET      | 4106    | \$74,190.65  | 2026 | \$69,981.64    | L | 1982 | 40 | 1350   | 0.26            | 2.25 | \$ 144,172.28 |
| DRAKE STREET      | 1ST STREET NORTH  | WASHINGTON STREET   | 3118    | \$0.00       | 2026 | \$53,142.41    | L | 1974 | 48 | 1100   | 0.21            | 2.45 | \$ 53,142.41  |
| EAST G STREET     | 13TH STREET SOUTH | 16TH STREET SOUTH   | 3381    | \$0.00       | 2026 | \$57,624.92    | L | 19?? |    | 970    | 0.18            | 2.64 | \$ 57,624.92  |
| 21ST AVE SOUTH    | BOLES STREET      | GAYNOR AVE          | 4877    | \$0.00       | 2027 | \$83,122.37    | С | 1972 | 50 | 1375   | 0.26            | 2.90 | \$ 83,122.37  |
| 22ND AVE SOUTH    | WICKHAM AVE       | BOLES STREET        | 3529    | \$79,987.60  | 2027 | \$0.00         | L | 1970 | 52 | 994    | 0.19            | 3.09 | \$ 79,987.60  |
| WICKHAM AVE       | 23RD AVE SOUTH    | 21ST AVE SOUTH      | 1734    | \$0.00       | 2027 | \$29,553.86    | L | 1970 | 52 | 490    | 0.09            | 3.18 | \$ 29,553.86  |
| PARK AVE          | 2ND AVE SOUTH     | 13TH AVE SOUTH      | 2511    | \$56,913.82  | 2028 | \$0.00         | L | 1981 | 41 | 300    | 0.06            | 3.24 | \$ 56,913.82  |
| 13TH AVE SOUTH    | PARK AVE          | SOUTH DEAD END      | 2641    | \$59,860.37  | 2028 | \$0.00         | L | 1981 | 41 | 780    | 0.15            | 3.38 | \$ 59,860.37  |
| BOLES STREET      | 13TH AVE SOUTH    | 17TH AVE SOUTH      | 3815    | \$86,470.02  | 2028 | \$0.00         | L | 1981 | 41 | 1045   | 0.20            | 3.58 | \$ 86,470.02  |
| 3RD STREET SOUTH  | EAST GRAND AVE    | EXPRESS WAY         | 11493   | \$0.00       | 2029 | \$195,883.82   | С | 1980 | 42 | 3990   | 0.76            | 4.34 | \$ 195,883.82 |
| 3RD STREET S/N    | EAST GRAND AVE    | EAST JACKSON STREET | 2630    | \$0.00       | 2029 | \$44,825.06    | С | 1980 | 42 | 609    | 0.12            | 4.45 | \$ 44,825.06  |
| WASHINGTON STREET | STH 54            | 32ND STREET         | 14704   | \$0.00       | 2030 | \$250,611.30   | С | 1973 | 49 | 3680   | 0.70            | 5.15 | \$ 250,611.30 |
| RIVERWOOD LANE    | 1ST STREET SOUTH  | SOUTH DEAD END      | 11125   | \$153,118.44 | UNAS | \$189,611.72   | L | 1972 | 50 | 2534   | 0.48            | 1    | \$ 342,730.15 |
| 16TH STREET SOUTH | BAKER STREET      | MONROE STREET       | 5499    | \$162,641.52 | UNAS | \$0.00         | С | 1990 | 32 | 1600   | 0.30            | 5.93 | \$ 162,641.52 |
| 13TH STREET SOUTH | CHESTNUT STREET   | DALY AVE            | 4502    | \$0.00       | UNAS | \$76,730.96    | L | 1996 | 26 | 1345   | 0.25            | 6.19 | \$ 76,730.96  |
| MARKET STREET     | BAKER STREET      | EAST JACKSON STREET | 2348    | \$0.00       | UNAS | \$40,018.73    | С | 1980 | 42 | 420    | 0.08            | 6.27 |               |
| 12TH AVE SOUTH    | WEST GRAND AVE    | CHASE STREET        | 5950    |              | UNAS |                | 1 | 1976 | 46 | 1682   | 0.32            | 6.59 | \$ 101,410.31 |
| 17TH STREET NORTH | BAKER STREET      | APRICOT STREET      | 3441    | -            | UNAS | · ·            |   | 1981 | 41 |        | 0.19            | 6.78 |               |
| 18TH STREET NORTH | BAKER STREET      | APRICOT STREET      | 3218.5  |              | UNAS |                |   | 1968 | 54 | 900    | 0.17            | 6.95 | \$ 54,855.31  |
| APRICOT STREET    | 17TH STREET NORTH | BAKER DRIVE         | 3013    | \$0.00       | UNAS |                |   | 1973 | 49 | 1470   | 0.28            |      | \$ 51,352.82  |
| -                 | •                 | TOTAL               | 129,190 | \$797,561    |      | \$1,895,171    | _ | •    |    | 38,160 | 7.23            |      |               |

#### PUBLIC WORKS COMMITTEE REFERRAL LIST:

#### 2022

- 1. Request from Alderperson Tom Rayome to discuss the future of 8th St S. (2016)
- 2. Request by Alderperson Cattanach to reconsider the City's overnight parking ordinance (2021)
- 3. Request by Alderperson Austin to consider developing a Responsible Bidder Ordinance
- 4. Request by Alderperson Kellogg to study traffic speed along Chestnut from 8<sup>th</sup> Street to Hill Street and make recommendations (2020)—study was done when there were no school related activities. Will continue study when school is in session and will report back to committee.
- 5. Request by Alderperson Evanson to review parking ordinance for any inconsistencies between ordinance language and signage throughout the City (2021)
- 6. Request by Alderperson Bemke to perform an intersection analysis and determine sign warrants, if any, for 12<sup>th</sup> St S and Chestnut St.
- Request by Alderperson Austin to consider a feasibility study for reducing noise and vehicle
  delays due to railroad tracks along the west side of the City at and between crossing from
  Gaynor Ave to High St.
- 8. Request by residents along Smith St and Cherry St to not reinstall sidewalk along these road projects.
- 9. Review and approve the conditions for a street privilege permit for Mead Witter Foundation, Inc.
- 10. Review the bid results for the West Riverview Expressway Traffic Signal Improvement project and consider awarding the contract to the low, qualified bidder.
- 11. Request from Zacher to consider removing pavers in west boulevard of 2<sup>nd</sup> Ave S between roundabout and Lyons St and replacing with colored, stamped concrete.
- 12. Request from Austin to discuss the Biron wastewater agreement at a special PW meeting.
- 13. Request from Rayome for Quiet Zones for trains on the east side of city. (Referral Attached)
- 14. Request from Polach to change traffic control at the intersection of Peach St and 13<sup>th</sup> St S from uncontrolled to either yield or stop control.
- 15. Request by Gary Wilhorn, 4281 14th PI S, to install street lighting at the intersection of 14th PI and Whitrock Ave.
- 16. Update Degradation Fees for 2023.
- 17. Consider Highway Safety Improvement Grant for pedestrian crossing at 8<sup>th</sup> St S at Wood Ave.
- 18. Consider possible solutions to possible lack of sufficient overnight and extended parking for semi-trucks within the City.