

PUBLIC NOTICE OF A COMMITTEE MEETING OF THE COMMON COUNCIL OF THE CITY OF WATERLOO

Pursuant to Section 19.84 Wisconsin Statutes, notice is hereby given to the public & news media, that the following meeting will be held:

COMMITTEE:PUBLIC WORKS & PROPERTY COMMITTEEDATE:January 2, 2025TIME:6:30 p.m.LOCATION:Municipal Building Council Chambers, 136 N. Monroe Street

1) COMMITTEE REGULARLY SCHEDULED MEETING

- 2) PLEDGE OF ALLEGIANCE, CALL TO ORDER AND ROLL CALL
- 3) APPROVAL OF MEETING MINUTES December 5, 2024
- 4) CITIZEN INPUT / PUBLIC COMMENT (3 minutes per individual)
- 5) PROJECT OVERSIGHT & UPDATES
- 6) UNFINISHED BUSINESS
- 7) NEW BUSINESS
 - a) Structural Repairs to the Pedestrian Bridge in Fireman's Park.
- 8) FUTURE AGENDA ITEMS AND ANNOUNCEMENTS -- Committee Calendar
- 9) ADJOURNMENT

Jeanne Ritter Clerk/Deputy Treasurer

Committee Members: Weihert, Haseleu, and A. Kuhl

posted, e-mailed & distributed: 12/26/2024

PLEASE NOTE: IT IS POSSIBLE THAT MEMBERS OF AND POSSIBLY A QUORUM OF MEMBERS OF OTHER GOVERNMENTAL BODIES OF THE MUNICIPALITY MAY BE IN ATTENDANCE AT THE ABOVE MEETING(S) TO GATHER INFORMATION. NO ACTION WILL BE TAKEN BY ANY GOVERNMENTAL BODY OTHER THAN THAT SPECIFICALLY NOTICED. ALSO, UPON REASONABLE NOTICE, EFFORTS WILL BE MADE TO ACCOMMODATE THE NEEDS OF DISABLED INDIVIDUALS THROUGH APPROPRIATE AIDS AND SERVICES. FOR ADDITIONAL INFORMATION OR TO REQUEST SUCH SERVICES PLEASE CONTACT THE CLERK'S OFFICE AT THE ABOVE LOCATION.

CITY OF WATERLOO

PUBLIC WORKS & PROPERTY COMMITTEE MEETING <u>MINUTES</u>: December 5, 2024

Digital audio files are archived with these written minutes additionally serving as the official record.

COMMITTEE REGULARLY SCHEDULED MEETING

- PLEDGE OF ALLEGIANCE, CALL TO ORDER AND ROLL CALL. Weihert called the meeting to order at 6:30 pm. Committee members present: A. Kuhl, Haseleu & Weihert. Absent: none Others in attendance: Mayor Quimby; DPW Supervisor Yerges; Water & Light Superintendent Sorenson; Police Chief Sorenson; Alder C.Kuhl; Clerk Ritter and WLOO Cable.
- APPROVAL OF MEETING MINUTES October 3, 2024 [A. Kuhl/J. Haseleu] VOICE VOTE: Motion carried.
- 3. CITIZEN INPUT / PUBLIC COMMENT none
- 4. PROJECT OVERSIGHT & UPDATES
- 5. UNFINISHED BUSINESS
- 6. NEW BUSINESS
 - a. Hendricks Street Project bid mid January
 - b. Indian Hills Street Project Alternative with sidewalk on Lum and Henry Discussion
- 7. FUTURE AGENDA ITEMS AND ANNOUNCEMENTS. April/May schedule Tour of Facilities.
- 8. ADJOURNMENT [A. Kuhl/J. Haseleu] VOICE VOTE: Motion carried. 6:40 pm

Jeanne Ritter Clerk/Deputy Treasurer October 4, 2024



Mr. Chad Yerges Director of Public Works 136 N Monroe Street Waterloo, WI 53594

2024 Pedestrian Bridge Inspections Waterloo Firemen's Park

Dear Mr. Yerges:

CORRE, Inc. (CORRE) has completed a routine, visual inspection of the two (2) pedestrian bridges in Firemen's Park over the Maunesha River. The following is a summary of the inspection findings, photographs taken during the inspection, and maintenance recommendations for each structure.

#1 - WEST PEDESTRIAN BRIDGE (NEAR PARK AVE ENTRANCE)

The structure is a single span, prefabricated, steel truss superstructure with an overall length of 95' and 8' width between rails. The truss is comprised of self-weathering steel with a concrete overlay and galvanized stay-in-place forms. The structure is rated for 5 Tons per the manufacturer's loading plate. For the purposes of the inspection, the bridge is considered to be running North and South. It is our understanding that this bridge remains open during the winter months and is subject to deicing and snow removal operations.

Overall, the structure is in good condition. The following are detailed inspection observations for each bridge element.

- **Approach Path:** Both ends are settled at the bridge up to 1.5", with the worst settlement being at the North end. The joints at each end are unsealed and open, allowing water to leak down to the abutment and affect the steel floor beams, abutment concrete, and concrete overlay.
- **Concrete Overlay:** The overlay is in good condition along the top surface, but fair condition beneath near the abutments. There is some insignificant cracking in the surface, but no other defects were noted. The galvanized stay-in-place (SIP) forms below have moderate to severe corrosion at both abutments as well as each construction joint in the concrete overlay. This corrosion is due to water leakage through the joints and de-icing efforts. Corroded portions at the abutments have areas of full section loss in the forms, and also exhibits concrete which has spalled off and exposed the reinforcing steel.
- **Bridge Rails:** The steel railings show no defects. The wooden rub rail has sections with checks/splits specifically the East rail, 4th board from the North.
- **Reinforced Concrete Abutments:** Both abutments have rust staining from leaking through the open joints above. The North abutment has spalled concrete at the top corner beneath the northwest bearing pad exposing the anchor bolt. The South abutment exhibited no other defects.
- **Steel Truss Superstructure:** The truss is in relatively good condition with exceptions at the Northern-most and Southern-most transverse floor beams. Each of these floor beams exhibits severe corrosion and section loss due to water leakage from the open joints. Both floor beams have sections with full section loss holes due to the corrosion.

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East elevation view



North approach pavement settlement



North abutment spall at northeast bearing plate



Severe corrosion at north floor beam



Section loss and corrosion at North floor beam



Concrete spall/exposed reinforcing steel at North SIP forms

MAINTENANCE RECOMMENDATIONS

The following maintenance recommendations, including priority rankings (low, medium, high), we feel should be taken in the next 3-5 years to preserve the structure and extend its useful life:

- **Repair Corroded Floor Beams High:** The end floor beams at each abutment should be removed and replaced. After replacement, the last 10' of the steel truss lower cord and floor beams should be painted to preserve the self-weathering steel.
- **Repair Galvanized Stay-in-Place Forms High:** While the floor beams are removed for repair, the SIP forms with corrosion should be cleaned and painted with a galvanizing paint. The areas of exposed concrete and reinforcing steel should be repaired. Exposed reinforcing steel should be cleaned and painted with a 2-part epoxy paint and the concrete should be repaired with a surface repair material.
- Approach Pavement and Joints High: Approach pavement should be wedged or resurfaced to match bridge's walking surface elevation. The open joints at each end should be sealed with a flexible, pourable joint sealant to prevent water leakage through joint.
- **Concrete Overlay Medium:** Seal transverse construction joints with a flexible/pourable joint sealant to prevent water leakage through joint.

#2 – EAST PEDESTRIAN BRIDGE (NEAR BASEBALL FIELD)

The structure is a single span, prefabricated, steel truss superstructure with an overall length of approximately 75' and 8' width between rails. The truss is comprised of self-weathering steel with a concrete overlay and galvanized stay-in-place forms. The structure is rated for 5 Tons per the manufacturer's loading plate. For the purposes of the inspection, the bridge is considered to be running East and West. It is our understanding that this bridge is not salted/de-iced during the winter months.

Overall, the structure is in very good condition. The following are detailed inspection observations for each bridge element.

- **Approach Path:** Both ends are settled at the bridge up to 3/4" and have previously been wedged with additional asphalt. The joints at each end are unsealed and open, allowing water to leak down to the abutment and potentially affect the steel floor beams, abutment concrete, and concrete overlay.
- **Concrete Overlay:** The overlay is in good condition with some insignificant cracking in the surface, but no other defects were noted. The galvanized stay-in-place (SIP) forms exhibit no defects.
- **Bridge Rails:** The steel railings and wooden rub rail have algae growth throughout, but no other noted defects.
- **Reinforced Concrete Abutments:** Both abutments are in good condition. The West abutment, northwest corner, has a small section with minor map cracking that is delaminated but has not spalled off.
- **Steel Truss Superstructure:** The truss is in good condition and has algae growth throughout, but no other defects were noted.





Typical algae growth on rails and truss



West approach pavement and longitudinal view looking East



Typical view of SIP and truss lower cord



West abutment and floor beam typical condition



Minor map cracks at West abutment, North bearing

MAINTENANCE RECOMMENDATIONS

The following maintenance recommendations, including priority rankings (low, medium, high), we feel should be taken in the next 3-5 years to preserve the structure and extend its useful life:

- Clean Truss and Rails Low: The algae growth throughout the structure should be cleaned or powerwashed off to limit moisture being trapped against the steel which can lead to corrosion and deterioration of the self-weathering steel members.
- **Approaches and Joints Medium:** Spray vegetation and brush to remove/kill growth from approaches, pavement joints and surrounding abutment/wing walls.

ADDITIONAL SERVICES

If the City would like to pursue the above maintenance recommendations, CORRE is able to provide engineering design services to develop a set of maintenance and repair plans for the structural repairs listed for the West pedestrian bridge. To complete these design services, CORRE estimates a cost of \$4900.00. The final cost would be adjusted based on the scope and needs should the City choose to use CORRE's engineering services.

Should you have any questions, please feel free to contact me at the information provided below. We appreciate the opportunity to provide bridge inspection services for the City and look forward to working with you in the future.

Sincerely,

CORRE, Inc.

Andrew Leden Project Manager/Inspection Team Leader 262.403.0360 aleden@correinc.com

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Eric Price, PE Structural Services Directors eprice@correinc.com