

Trail Bridge UW Inspection Report

To: Jefferson County

Inspector: Josh Makela (9669)

Inspection Date: 05/06/2022

Structure Number: Trail Bridge

Feature On: Trail Bridge

Location: Trail Bridge over the Rock River. 0.6 Miles East of CTH F

Latitude: 43.12622

Longitude: -88.58077

Eau Claire Office
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Eau Claire, WI 54703
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Condition Ratings:

Very Good Condition – No problems noted.

Good Condition – Some minor problems.

Satisfactory Condition -Structure elements show some minor deterioration.

Fair Condition: Elements are sound but may have minor section loss, cracking, or spalling.

Poor Condition: Advance section loss, deterioration, or spalling.

Reinforced Concrete Elements:

West Abutment: Has cracking throughout with efflorescence. No undermining observed. Abutment in fair condition.

East Abutment: Cracking throughout with efflorescence. Areas of spalls and deterioration at ends. No undermining observed. Abutment in fair condition.

Wingwalls: Cracking through with areas of spalling. Wingwalls in fair condition.

Pier: Has map cracking throughout with efflorescence. Footing with vertical exposure of up to 2.5 feet. No undermining observed. Footing does have minor spalling throughout. Pier is in fair condition.

Recommendations:

-Recommend placing heavy riprap at abutments and pier to prevent scour or undermining.

-Confirm piles were used in construction of substructure units.

UNDERWATER BRIDGE INSPECTION - DIVE LOG

DT2013 1/2004 s.84.17 Wis. Stats.

This form may be used as a supplement to form DT2007 for Underwater Bridge Inspections

Structure Number Trail Bridge

Inspection Date 05/06/2022	Weather Condition Cloudy, 63 degrees	Waterline Elevation 92.6 ft
Safety Concern Current, Low Visibility	Water Temperature 50 degrees	Total Days on Site 1
Current 1.5 ft/sec	Visibility Zero	Total Inspection Time (hrs) 1.5
Elevation Marker Description Top of Pier, Downstream Side		

General Site Conditions

Scour at Bridge Site	Pier footing exposed with up to 2.5 feet of vertical face exposure.
Embankment Erosion/Conditions	Mostly covered with vegetation.

Substructure Unit(s)	West Abutment	East Abutment	Pier	
Level of Inspection	Level I	Level I	Level I	
Abutment/Pier Type	Reinforced Concrete	Reinforced Concrete	Reinforced Concrete	

Dive Log

Maximum Water Depth, at Unit	5.8	5.1	9.4	
Channel Bottom Material, at Unit	Silt	Silt	Silt	
Scour at Unit	None Observed	None Observed	Footing Exposed	
Marine Growth/Cleaning Performed?	N/N	N/N	N/N	
Debris / Clearing Performed?	N/N	N/N	N/N	
Mode: Wade, Scuba, Surface Supplied Air?	SCUBA	SCUBA	SCUBA	
Inspection Comments	Concrete is sound. Condition mirrors that of above water.	Concrete is sound. Condition mirrors that of above water.	Entire footing exposed with a typical vertical face exposure of 2.5 feet. Concrete is sound and mirrors condition of above water. No undermining observed.	

Dive Platform: Shore Boat Other

Location of Boat Access: None

Conclusions

Abutments and pier are in fair condition with map cracking throughout with efflorescence. UW condition mirrors that of above water. The pier footing is exposed, with typical vertical face exposure fo 2.5 feet. Foundation layout of abutments and pier unknown because plansets are not available.

Recommendations

- Place heavy riprap around piers and abutments to prevent scour or undermining.
- Confirm piles were used when originally built.



West Abutment



East Abutment



West Face of Pier



East Face of Pier



Typical Map Cracking with Efflorescence at Pier



Upstream Nose of Pier Vertical Cracks



West Abutment South Wingwall Deterioration



Map Cracking/Spalling at East Abutment



East Abutment South Wingwall Deterioration



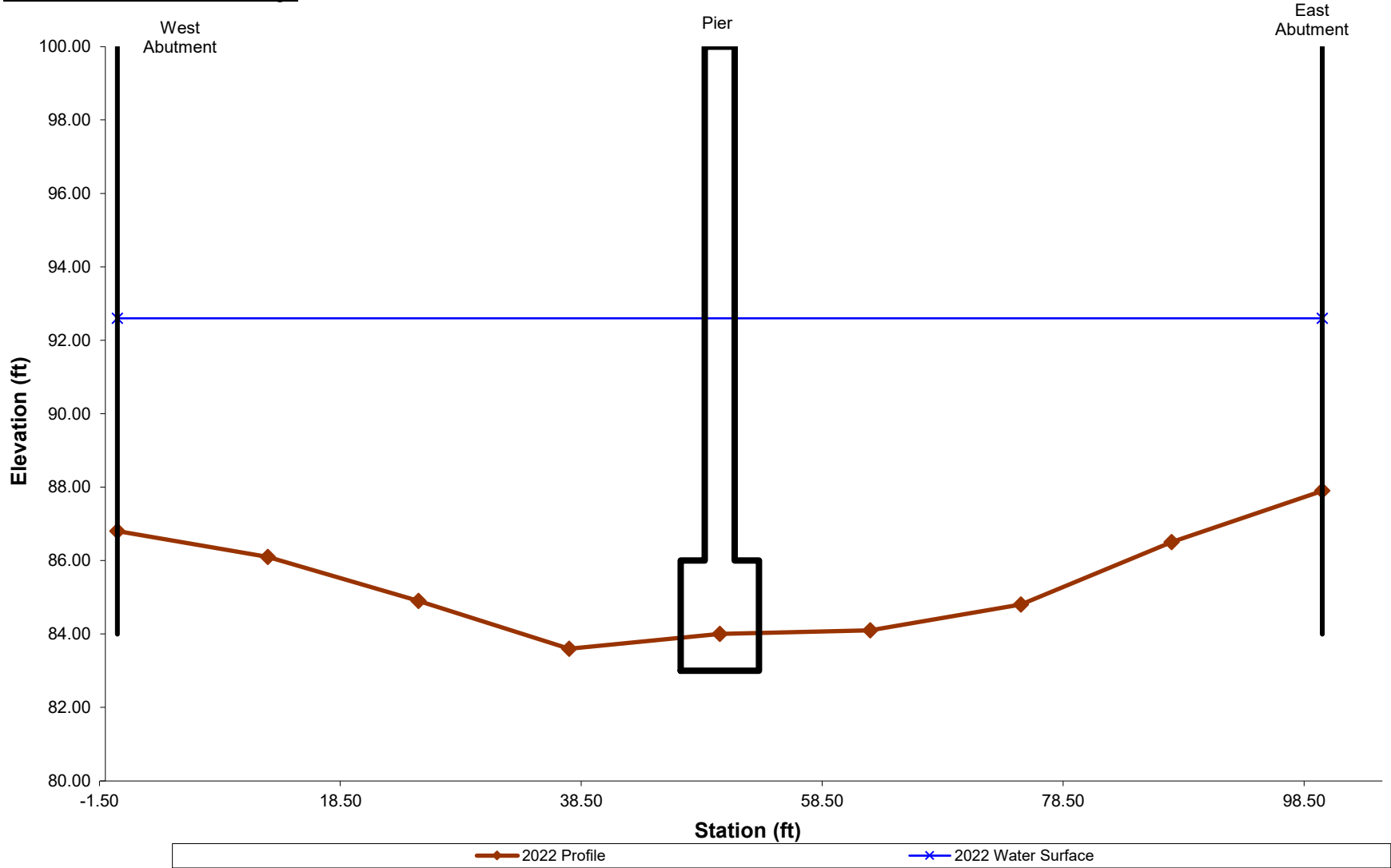
East Abutment South End Spalling

Wisconsin Department of Transportation
STREAMBED PROFILE REPORT

Upstream Fascia Profile

Looking Upstream

Structure Number: Trail Bridge



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