Wisconsin De DT1696 4/2	SURVEY REPOR	T 06/28/2019 BUREAU OF STRUCTURES				
Grade Separation	Stream Crossing	Culvert				
🗌 Railroad 🛛 🗌 Ret	aining Wall 🛛 🗌 Noise Barr	ier				
Sign Structure	Other:					
For guidance see: http://wi	sconsindot.gov/Pages/doing-bus/e	ng-consultants/cnslt-rs	srces/strct/survey.a	<u>spx</u>		
Design Project ID 1050-01-11	Construction Project ID 1050-01-81	Highway (Project Na Chippewa Falls	,			
Final Plan Due Date June 1, 2021	Preliminary Plan Due Date July 1, 2019	X Town □ Village □ City Lafayette				
PS&E Date August 1, 2021	Letting Date February 2, 2022	County Chippewa				
Structure Number B-09-174		Section 12	Town Range T28N R07W		•	
Station 209"EB"+85.76	Latitude: 44°54'42"N Longitude: 91°17'12"W	YES 🗌 NO	YES NO Structure Located on National Highway System			
For Survey and CADD Files			Traffic Forecast Data			
Horizontal Coordinate System: Vertical Datum: N/A (No Sur		Design Year	Average Daily Traffic (ADT)	Roadway Design Spee		
Feature On STH 29 EB		Feature On 2042	11,300	70	Principal Arterial	
Feature Under 190 th Street		Feature Under 2015	150	60	Local Road	
Region Contact: Tyler Rongstad, P.E.		Consultant Contact:	Consultant Contact: Sean Spromberg, P.E.			
(Area Code) Telephone Number(s): (715) 461-0372			(Area Code) Telephone Number(s): (715) 304-0451			
Email: Tyler.Rongstad@dot.wi.gov		Email: sspromber	Email: sspromberg@msa-ps.com			

RECEIVED

Work To Be Performed

				Field Information Required Item Number (see Pages 2–4)
	Α.	Structural Repair		
\boxtimes	В.	Overlay		1–3, 10–22, 26–28, 32, 34
		🛛 Concrete Overlay	Asphalt Overlay	
		Polymer Modified Asphalt Overlay	Thin Bonded Polymer Overlay	
		□ Other:		
	C.	New Bearings		3, 8, 9, 22
	D.	New Railings		15–17, 20–23
	Ε.	Curb and Sidewalk Repair		2, 3, 16, 22, 23
	F.	Abutment Repair		2, 3, 12, 16
	G.	Pier Repair		2, 3, 12, 16
	Н.	New Deck		1–6, 9, 10, 13–28, 32–34
	I.	Widening		1–28, 30, 32–35
	J.	Joint Repair		2, 3, 8, 16, 19, 22
	K.	Surface Repair		2, 3, 22
	L.	Raising Bridge		3, 6, 9, 16, 20–24
	M.	Slope Stabilization		1–3, 30
	N.	Scour Repair		1, 2 or 3, 16, 19, 21, 27, 29, 31–35
	О.	Painting		16, 22, 24
	Ρ.	Other:		

Field Information Required

If no structure number exists provide the following: Small County Map on which the location of proposed structure is shown in red and any highway relocation in green. In addition, provide Location Map of scale not less than 1" = 2000' showing the structure location and number.

- 1. Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
- 2. Outline deficient areas on existing structure plan or drawing.
- 3. Photographs of details requiring repairs or modifications, such as: bearings, x-frames, joints, etc. Photograph all deficient areas. Clearly label all photographs.
- □ 4. Provide proposed typical section for roadway and structure showing dimensions and cross slopes.
- □ 5. Survey beam seat or girder elevations at both sides of bridge at all substructure units.
- 6. Provide cross-section elevations at 10 foot intervals extending across the structure and a minimum of 100 feet beyond each end. Sections should be normal to centerline and show elevations at centerline roadway and gutter line. Take elevations along joints and at floor drains.
- □ 7. Show and identify starting stationing on bridge.
- □ 8. Record measurement, temperature of the structure, and date taken for each of the following:
 - (a) Joint opening measured normal to joint at centerline of roadway and both curb lines.
 - (b) Clearance between girder ends at piers.
 - (c) Distance from front face of abutment backwall to closest point of girder end measured parallel to girder.
 - (d) Temperature of structure determined by averaging top and under deck (if accessible) readings.
- 9. Fixed and expansion bearings condition and orientation.
- ⊠10. Number and width of proposed pours including construction staging sequence.
- \boxtimes 11. Location of existing construction joints in the deck.
- \boxtimes 12. Estimated Quantities:

Preparation, Decks, Type 1	Sq. Yd. <u>21</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>8</u>	
Full Depth Deck Repair	Sq. Yd. <u>1</u>	Galvanic Anodes?
Concrete Surface Repair Superstructure	Sq. Ft	Galvanic Anodes?
Concrete Surface Repair Substructure	Sq. Ft	Galvanic Anodes?
Curb Repair	LF	Galvanic Anodes?

- ⊠ 13. Sufficiency number: <u>89.5</u> (obtain from HSI Bridge Inventory System)
- ⊠ 14. Appraisal and Condition Rating

	Deck Condition Superstructur		Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal	
Current	6 - Satifactory Condition	6 - Satisfactory Condition	7 - Good Condition	5 - Legal Load Stress Not Exceeded	6 - Condition Equal to Minimum Criteria	

☑ 15. Load Ratings

	Inventory	Operational
Current Calculated Date: June 13, 2013	HS27	HS46
After Completed by Bridge Designer	TBD	TBD

☑ 16. Utilities on/near Structure. (WisDOT policy is to avoid placing utilities on the structure.) □ Yes ☑ No

	Туре	Owner and Contact Information	Size	Opening at Abutment	Weight	Pressure
	-	lge railing deficient? lo If Yes – Replacement Rail Type:				
	18. Drains to be: □ Raised	□ Closed □ Downspouted □ New				
\boxtimes		ned on bridge during work? lo If Yes – Include sketches				
\boxtimes	20. Will guard rail □ Yes ⊠ N	be attached? lo If Yes – Which corners?				
		e performed eliminate all deficiencies? lo If No – Explain:				
	22. Hazardous waste (asbestos) to be removed? □ Yes ⊠ No If Yes – Explain:					
	23. Wing location(s) for surface drain anchors:				
]24. Painting? □ Yes □ No If Yes – Explain on Page 4 (all, part, railing, color system, containment, bid items)					
		vay width: <i>(new deck / widening)</i> Ft. ralk clear width: Left: Ft. Right: Ft				
\boxtimes	26. Maximum incr	ease in grade line elevation <u>0.50</u> In.				
\boxtimes	27. Benchmark description to be shown					
\boxtimes	28. Desired final cross slopes on bridge <u>0.020</u> Ft./Ft.					
	 29. Underwater Inspection Report including: Streambed Cross Section With Pier, Footing and Seal Elevations Pier Elevation Drawings Pier Layout Hydrographic Survey 					
	30. Slope stabiliza Type: Slope:	ation, provide: Quantity: CY. _ Ft./Ft. Fill: CY.				
		yout of grout bags or proposed scour repair. lated Mats (for Scour) CY. (for Scour) CY.				

Grout Bags (for Scour)	CY.
Heavy Riprap	CY.
Extra Heavy Riprap	CY.

- 32. Report submitted with Preliminary Plan requires no CADD file submittal (See ESubmittal instructions).
- 33. Report submitted for development of Preliminary Plan to structure design engineer requires CADD file (if available) submittal and Report submittal to Soils Engineer if project involves foundation modifications.
- 34. Coordinate with structure design engineer **before** going into the field if existing structure has no available plans, if staged construction is planned, or if there are adjoining/adjacent structures that will remain in place.
- □ 35. If project involves substructure widening coordinate with structure and/or hydraulic design engineer to determine if information on the separation and/or stream crossing SSR will be required.

Additional Information

Elaborate on other concerns such as: DNR, Local, Utility Conflicts, Aesthetics, Railing Type and Staged Construction. Please be as detailed and specific as possible.

1. The last inspection date was April 23, 2019. The bridge was constructed in 1993. The structure is a 3-span haunched slab bridge with a 27'-6" length for span 1, a 37'-6" length for span 2, and a 31'-0" length for span 3. See Attachment A for the current inspection report.

2. See Attachment B for existing structure plans detailing deficient areas.

3. See Attatchment C for photos of details requiring repairs.

10. The work activities along STH 29 EB will be broken up into construction stages. Traffic will be controlled with lane closures using concrete barriers. See preliminary plans for construction staging details.

11. There are no construction joints in the existing deck.

12. Quantities for Preparation Decks Type 1 and Preparation Decks Type 2, and concrete deck repair are based on recent inspections and photographs. A small quanitity of Full Depth Deck Repair is included in the plans to be implemented as needed and as directed by the field engineer.

17. Bridge railing modification or replacement is not within the scope of this rehabilitation project.

18. There are no existing or proposed drains on the structure.

19. The work activities along STH 29 EB will be broken out into construction stages. Traffic will be controlled with lane closures using concrete barriers. The order and number of construction stages are shown in the road plans.

22. There is no hazardous waste (asbestos) per the asbestos inspection completed on April 23, 2019.

26. Concrete Overlay: A minimum of 1" will be removed from the existing deck. The minimum concrete overlay thickness will be 1.5" and there will be no change to the roadway cross slope.

27. No benchmark description or elevation will be shown. There was no survey conducted for this project. All dimensions shown are based on the as-built bridge plans.

DNR:

Initial concurrence received January 7, 2019 and a revised concurrence received June 14, 2019. See Attachment D. There are no known Endangered Resource or suitable habitat that could be impacted by this project.

Utility Conflicts: No conflicts anticipated.

Aesthetics: No aesthetic treatments are anticipated.

Staged Construction:

The work activities along STH 29 EB will be broken out into construction stages. Traffic will be controlled with lane closures using concrete barriers.

Rehabilitation Scope: The rehabilitation scope for this project was provided by WisDOT NW Region. Repairs for this structure include a concrete overlay with deck repairs and cleaning and sealing of parapets.

Note: wing numbering convention was selected to match that used in the as-built structure drawings.