DT1696 6/2012									
M. Crada Sanaration M. Straam Craasing Culvert					RECEIVED				
☐ Grade Separation ☐ Stream Crossing ☐ Culvert					8/1/2019				
	☑ Railroad    ☐ Retaining Wall    ☐ Noise Barrier    BUREAU OF STRUCTURES								
☐ Sign Structure ☐ Other:									
For guidance see	e: <u>htt</u>	p://dotnet/d	tid bos/extranet/structures/repo	rts-checklists.htm					
Design Project ID 1491-21-00			Construction Project ID 1491-21-71	Highway (Project Nature USH 8/141 over		lane			
Final Plan Due Date	e		Preliminary Plan Due Date	☐ Town ☐ Village ☐ City					
Sept 1, 2020			Aug 1, 2019	Pembine					
PS&E Date Nov 1, 2020			Letting Date Mar 9, 2021	County Marinette					
Structure Number				Section Town			Range		
B-38-0015 Station			Latitude: 45°38'53.36" N	26	04	37N	NI-4:	20E	
1319+05.44			Longitude: 87°57'53.31" W	☑ YES ☐ NO	Struc	ture Located	on National H	ignway	System
For Survey and CAI			I				recast Data		
Horizontal Coordinate Vertical Datum: NA				Design Year		erage Daily affic (ADT)	Roadwa Design Sp		Functional Class
Feature On USH 8/141				Feature On 2018		4 400	22		Other
050 6/141				2016		4,100	60 mp	n	Principle Arterial-Rural
Feature Under Crain Lane/SOO Line/Peme Bon Won River				Feature Under 2018		200	XX mph L		Local-Rural
Region Contact: Pa			<u> </u>	Consultant Contact: Pat Cashin					<u> </u>
(Area Code) Teleph			(Area Code) Telephone Number(s): (414) 359-2300						
Email: Paul.Zoel	llner	@dot.wi.go	V	Email: pcashin@h	nntb.c	om			
			Work	To Be Performe	d				
			WOIK	TO De l'enomieu			Field Information Required		
_		<b>.</b>						<u>mber</u>	(see Pages 2–4)
			•				•		
	В.	-						-28, 32, 34	
			rete Overlay	☐ Asphalt Overlay					
		-	ner Modified Asphalt Overlay	☐ Thin Bonded Polymer Overlay					
_	_	☐ Other	- <del></del>						
			ings						
		ngs							
F. Abutment Repair									
G. Pier Repair									
		<b>(</b>							
	_								
			air					, 19, 2	22
			epair						
	L.	Raising B	ridge				3, 6, 9, 16	, 20–2	24
	☐ M. Slope Stabilization1–3, 30								

□ P. 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.

$\boxtimes$	1.	. Most recent inspection report, brief history of bridge construction date, and description of repairs with dates.
$\boxtimes$	2.	. Outline deficient areas on existing structure plan or drawing.
$\boxtimes$	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.
$\square$	11.	. Location of existing construction joints in the deck.

Preparation, Decks, Type 1	Sq. Yd. <u>425</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>310</u>	
Full Depth Deck Repair	Sq. Yd. <u>69</u>	Galvanic Anodes? No
Concrete Surface Repair Superstructure	Sq. Ft	Galvanic Anodes? No
Concrete Surface Repair Substructure	Sq. Ft. <u>100</u>	Galvanic Anodes? Yes
Curb Repair	LF. <u>——</u>	Galvanic Anodes?

## 

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal	
Current	6	5	5	5	5	

## 

	Inventory	Operational		
Current	LIC17	UC27		
Calculated Date: 8/14/2013	HS17	HS37		
After				
Completed by Bridge Designer				

	Type Owne	er and Contact Ir	nformation			Size	Opening at Abutment	Weight	Pressure	
$\boxtimes$	17. Is existing bridge rai	iling deficient?								
		Yes – Replace	ement Rail Type:	: 42SS						
	18. Drains to be:  ☐ Raised ☐	] Closed	☐ Downspouted	d [	∃ New					
	19. Traffic maintained on bridge during work?  ☑ Yes □ No If Yes – Include sketches									
	20. Will guard rail be attached?  ☑ Yes ☐ No If Yes – Which corners? All 4 corners									
$\boxtimes$	21. Will work to be performed eliminate all deficiencies?  ☑ Yes ☐ No If No – Explain:									
$\boxtimes$	22. Hazardous waste (asbestos) to be removed?  ☑ Yes ☐ No If Yes – Explain: Gaskets under tubular railing posts contain friable asbestos at 60 locations totaling 24 S.F.									
$\boxtimes$	23. Wing location(s) for surface drain anchors: None									
	24. Painting?  ☐ Yes ☐ No If (all, part, railing, color	•	-							
	25. Desired roadway width: (new deck / widening) Ft.  Desired sidewalk clear width: Left: Ft. Right: Ft.									
$\boxtimes$	26. Maximum increase i	in grade line e	levation <u>0</u> In.							
$\boxtimes$	27. Benchmark descript	tion to be show	vn							
$\boxtimes$	28. Desired final cross s	slopes on brid	ge <u>0.01</u> Ft.	./Ft.						
	<ul> <li>29. Underwater Inspection Report including:</li> <li>Streambed Cross Section With Pier, Footing and Seal Elevations</li> <li>Pier Elevation Drawings</li> <li>Pier Layout</li> <li>Hydrographic Survey</li> </ul>									
	30. Slope stabilization, μ Type: Slope: Ft./F	Quantit	y: CY. CY.							
	31. Preliminary layout o C.I.P. Articulated I Grout Bags (for So Heavy Riprap Extra Heavy Ripra	Mats (for Scou cour)		r repair.						

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.

Work to be Performed:

Concrete overlay with 42SS parapet retrofit

Existing wings will be modified to accommodate 42SS parapets

Replace expansion joint at south abutment

Concrete surface repair at abutments

Debris Containment bid item included since thermography shows full depth deck preparation over railroad. Bridge Manual p. 6-35.

1. See B-38-0015 oth.pdf for most recent inspection report.

Recent construction history:

1970 - New Structure

1982 - Paint Bearing

1985 - Concrete Overlay

1988 - Bearing - Misc. Work

1990 - Repair Deck

1993 - Repair Joints

1993 - Repair Deck

1994 - Repair Joints

2002 - Concrete Overlay

- 2. See B-38-0015 oth.pdf for deficient areas.
- 3. See B-38-0015\_pic.pdf for photographs.
- 8. Joint opening at south abutment not provided in time for preliminary design. The south abutment expansion joint will be completely replaced with deck replacement and to be sized appropriately during final design.
- 9. All piers are fixed with full depth diaphragms, and north abutment is semi-expansion with full depth diaphragm. The south abutment bearings have been switched to reinforced elastomeric bearings with little maintenance. The scope of work for this project does not include bearing work.
- 10. The overlay will be poured in two stages to allow for traffic to be maintained on bridge. Each stage will be approximately half of the deck width. See Construction Staging sheet included with preliminary structure plans.
- 17. Existing bridge railing is old brush style curb with combination railing. These railings are obsolete. New retrofit railing will be 42SS parapet to adhere to current standards. Retrofit detail shown on preliminary bridge plans.
- 18. No drains on bridge.
- 19. The new bridge deck will be poured approximately half at a time, with a single traffic lane open in each stage. A portable signal with alternating directions will be used to control traffic through the work zone. See Construction Staging sheet included with preliminary structure plans.
- 28. Per Region, match existing deck cross-slope.