Wisconsin Department of Transportation DT1696 4/2017

Grade Separation	🖂 Stream Crossing	Culvert
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□ Railroad □ Retaining Wall □ Noise Barrier

Sign Structure Other:

For guidance see: http://wisconsindot.gov/Pages/doing-bus/eng-consultants/cnslt-rsrces/strct/survey.aspx

Design Project ID	Construction Project ID	Highway (Project Nar	me)				
1196-05-07	1196-05-77	USH 53 NB					
Final Plan Due Date	Preliminary Plan Due Date	🛛 Town 🗌 Village	e 🗌 C	City			
2/1/2019	11/16/2018	Chetek					
PS&E Date	Letting Date	County					
5/1/19	11/12/2019	BARRON					
Structure Number	·	Section		Town		Range	
B-03-0021		31		T33N		R10	W
Station	Latitude: 45DEG 18'05'N	YES 🗆 NO	Struct	ure Located o	on National Hi	ighway	System
480+17	Longitude: 91DEG 39'14"W						
For Survey and CADD Files	Traffic Forecast Data						
Horizontal Coordinate System: BARF		Ave	rage Daily	Roadwa	ay		
Vertical Datum: NAVD 88	Design Year	Tra	ffic (ADT)	Design Sp	beed	Functional Class	
Feature On		Feature On		5550	70MPH		PRINCIPAL
USH 53 NB		2014		3330	701011	1	ARTERIAL
Feature Under		Feature Under					
CHETEK RIVER							
Region Contact: BERNDEN DIRK	Consultant Contact: Jarrod Starren						
(Area Code) Telephone Number(s): (7	(Area Code) Telephone Number(s): (715)720-6261						
Email: brendan.dirkes@dot.wi.g	Email: jstarren@sehinc.com						

## Work To Be Performed

				Field Information Required Item Number (see Pages 2–4)
	Α.	Structural Repair		1–3, 22
	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
	Е.	Curb and Sidewalk Repair		2, 3, 16, 22, 23
	F.	Abutment Repair		2, 3, 12, 16
	G.	Pier Repair		2, 3, 12, 16
$\boxtimes$	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
	Ο.	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.
- $\boxtimes$  9. Fixed and expansion bearings condition and orientation.
- ⊠10. Number and width of proposed pours including construction staging sequence.
- □11. Location of existing construction joints in the deck.
- □12. Estimated Quantities:

Preparation, Decks, Type 1	Sq. Yd	
Preparation, Decks, Type 2	Sq. Yd	
Full Depth Deck Repair	Sq. Yd	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>93.4</u> (obtain from HSI Bridge Inventory System)
- ⊠14. Appraisal and Condition Rating

	Deck Condition Condi		Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal	
 Current	5	7	6	5	6	

⊠ 15. Load Ratings

	Inventory	Operational
Current Calculated Date: 8/21/2013	HS 16	HS 25
After Completed by Bridge Designer		

## ☑ 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
	-	dge railing deficient? Io If Yes – Replacement Rail Type: 42 SS				
	18. Drains to be: □ Raised	□ Closed □ Downspouted □ New				
		ined on bridge during work? Io If Yes – Include sketches				
	20. Will guard rail □ Yes ⊠ N	be attached? Io If Yes – Which corners? South side				
		e performed eliminate all deficiencies? Io If No – Explain:				
		aste (asbestos) to be removed? Io If Yes – Explain:				
$\boxtimes$	23. Wing location	(s) for surface drain anchors: All four corners				
	24. Painting? ☐ Yes ⊠ No If Yes – Explain on Page 4 (all, part, railing, color system, containment, bid items)					
	25. Desired roadway width: (new deck / widening)44.71 FT at E Abut, 48.88 FT at W AbutFt.Desired sidewalk clear width:Left: Ft.Right: Ft.					
$\boxtimes$	26. Maximum incr	rease in grade line elevation 2.16 In.				
$\boxtimes$	27. Benchmark de	escription to be shown				
$\boxtimes$	28. Desired final of	cross slopes on bridge <u>0.02</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 stabiliza	•				

neavy Niprap	01.
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.

Work to be performed consists of the following: Redeck, replace all four wings, provide new 42SS parapet, fiber wrap ends of prestressed girder, miscellaneous concrete repair.

Bridge will be closed to traffic while construction takes place.

- Deficient areas consist of the deck, wings.
- Fixed connections.
- No utilities are known to exist on the bridge.
- No drains on existing bridge deck.
- Beam guard will be attached to the south wings only.

No widening of the deck will take place.