REHABILITATION STRUCTURE SURVEY REPORT

DT1696 6/2012

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

Sign Structure Other:

For guidance see: http://dotnet/dtid_bos/extranet/structures/reports-checklists.htm

Design Project ID	Construction Project ID	Highway (Project Name)				
1090-35-00	1090-35-70	Rock Freeway IH 43				
Final Plan Due Date	Preliminary Plan Due Date	🛛 Town 🗌 Villag	e 🗌 City			
12/1/2019	5/15/2019	Vernon				
PS&E Date	Letting Date	County				
2/1/2020	5/12/2020	Waukesha				
Structure Number	Section	Town		Range		
B-67-114	B-67-114 S06 T05N R20E			E		
Station	Latitude: 42°55'27.52"					
100+00	Longitude: 88°11'19.56"					
For Survey and CADD Files		Traffic Forecast Data				
Horizontal Coordinate System: WCC						
NAD 83 (2011)			Average Daily	Roadwa	,	
Vertical Datum: NAVD88 (2012)		Design Year	Traffic (ADT)	Design Sp	beed	Functional Class
Feature On		Feature On	3,000	40 mp	h	Collector-
Crowbar Dr		2040	0,000	10 mp		Urban
Feature Under		Feature Under	42,500	75 mp	h	Interstate-
IH 43	2040	42,500	75 mp	11	Urban (11)	
Region Contact: Lance Parve	Consultant Contact: Mohammed Zagloul ,PE,SE					
(Area Code) Telephone Number(s):	(Area Code) Telephone Number(s): (414) 751-7223					
Email: lance.parve@dot.wi.go	Email: mzagloul@kapurinc.com					

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
	١.	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
	М.	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.
- \Box 11. Location of existing construction joints in the deck.
- ⊠12. Estimated Quantities:

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

- ⊠13. Sufficiency number: <u>96.3</u> (obtain from HSI Bridge Inventory System)
- ⊠14. Appraisal and Condition Rating

	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
Current	9 Excellent	8 Very Good	7 Good	5-Legal Load Stress Not Exceeded	7-Condition Better Than Min. Criteria

⊠ 15. Load Ratings

	Inventory	Operational		
Current Calculated Date: 07/08/2013	HS18	HS30		
After Completed by Bridge Designer	To Be Completed During Final Design	To Be Completed During Final Design		

☑ 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						
		ned on bridge during work? o If Yes – Include sketches						
	20. Will guard rail □ Yes ⊠ N	be attached? o If Yes – Which corners?						
		e performed eliminate all deficiencies? o If No – Explain:						
		aste (asbestos) to be removed? lo 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. valk clear width: Left: Ft. Right: Ft						
\boxtimes	26. Maximum incr	ease in grade line elevation 0.25 In.						
	27. Benchmark de	escription to be shown						
\boxtimes	28. Desired final cross slopes on bridge <u>0.02</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.						

CY.

Extra Heavy Riprap

- 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.

WisDOT SE Region advanced Let from 9/2021 to 5/2020 and is developing the roadway plans. this bridge is added to the project.

Item #10: Polymer overlay to be done with traffic staging. Traffic staging to be determined during the final design

- Item #13, 14, 15: These values were taken from the HSI system on 04/26/2019.
- Item #16: No existing utilites on the bridge per the existing structure plans
- Item #18: Existing deck drains to remain. Polymer overlay to be tapered at existing drains.
- Item #19. Traffic staging to be determined during the final design.