Wisconsin Department of Transportation DT1696 4/2017			RECEIVED 12/12/2018 BUREAU OF STRUCTURES			
☐ Grade Separation ☐ Stream Crossing ⊠ Culvert						
🗌 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 9110-09-30	Construction Project ID 9110-09-60	Highway (Project Na STH 139	Highway (Project Name) STH 139			
Final Plan Due Date 12/1/2019	Preliminary Plan Due Date 12/1/2018	⊠ Town □ Village □ City Fence				
PS&E Date 5/1/2021	Letting Date 8/10/2021	County Florence				
Structure Number C-19-1		SectionTownRange1739N15E			•	
Station 115+30	Latitude: 455140.00 Longitude: 883913.30	TES NO	☐ YES ☐ NO Structure Located on National Highway System			
For Survey and CADD Files			Traffic Forecast Data			
Horizontal Coordinate System: WCCS FLORENCE Vertical Datum: NAD 83		Design Year	Average Daily Traffic (ADT)	Roadway Design Speed	Functional Class	
Feature On STH 139		Feature On 2041	900	60	Rural Minor Art (06)	
Feature Under Long Lake Outlet		Feature Under				
Region Contact: Jesse Jefferson		Consultant Contact:	Consultant Contact: Phil Roberts			
(Area Code) Telephone Number(s): (715) 365-5739		· / ·	(Area Code) Telephone Number(s): (920) 830-6178			
Email: jesse.jefferson@dot.wi.gov		Email: phil.roberts	Email: phil.roberts@omnni.com			

Work To Be Performed

	A.	Structural Repair		Field Information Required <u>Item Number (see Pages 2–4)</u> 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
	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
	0.	Painting		16, 22, 24
\boxtimes	Ρ.	Other: Wingwall replacement		

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	
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>N/A</u> (obtain from HSI Bridge Inventory System)
- □ 14. Appraisal and Condition Rating

_	Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
Curr	ent				

□ 15. Load Ratings

	Inventory	Operational
Current		
Calculated Date:		
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		
-	I7. Is existing bridge railing deficient? □ Yes □ No If Yes – Replacement Rail Type:						
18. Drains to be: □ Raised	□ Closed □ Downspouted □ New						
	ined on bridge during work? lo If Yes – Include sketches						
20. Will guard rail be attached? □ Yes ⊠ No If Yes – Which corners?							
21. Will work to be performed eliminate all deficiencies? ⊠ Yes □ No If No – Explain:							
22. Hazardous waste (asbestos) to be removed? □ Yes □ No If Yes – Explain:							
23. Wing location	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)							
25. Desired roadway width: <i>(new deck / widening)</i> Ft. Desired sidewalk clear width: Left: Ft. Right: Ft.							
26. Maximum increase in grade line elevation In.							
27. Benchmark description to be shown							
28. Desired final cross slopes on bridge 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.

See drawing in C-19-0001_oth.pdf for description of wing replacement on one side only. Due to the amount of the apron removal required, the complication of preserving rebar, and the impact on the remaining wing we feel it will be more cost effective to replace the entire apron and both wings. A single wing or both wings will block nearly the entire opening so in either case the stream flow will need to be diverted during construction.