☑ P. Other: <u>Sidewalk Widening</u>

RECEIVED 3/12/2019 BUREAU OF STRUCTURES

☐ Grade Separation	Stream Crossing 🔲 (Culvert				
☐ Railroad ☐ Retainir	ng Wall 🔲 Noise Barrie	r				
☐ Sign Structure ☐ O	ther:					
For guidance see: http://wiscons	indot.gov/Pages/doing-bus/eng	-consultants/cnslt-rs	srces/strct/survey.a	<u>spx</u>		
Design Project ID						
5992-10-02 Final Plan Due Date	5992-10-16 Preliminary Plan Due Date	Atwood Avenue				
6/1/2019	3/12/2019	☐ Town ☐ Village ☒ City Madison				
PS&E Date 8/1/2019	Letting Date 11/12/2019	County Dane				
Structure Number B-13-254		Section 05	Town 07N		Range 10E	
Station	Latitude: 43°05'27.70"N	☐ YES ☒ NO Structure Located on National Highway System				
32+18	Longitude: 89°20'03.20"W				_	
For Survey and CADD Files Horizontal Coordinate System: WCC	S, Dane County (NAD 88)		Average Daily	recast Data Roadwa	av	
Vertical Datum: NAVD 88	·	Design Year	Traffic (ADT)	Design Sp	•	Functional Class
Feature On Atwood Avenue		Feature On 2040	18,950	35		Urban Minor Arterial
Feature Under Starkweather Creek		Feature Under				
Region Contact: Mark Westerveld		Consultant Contact: Dan Wagner, MSA Professional Services, Inc.				
(Area Code) Telephone Number(s): (6	,	(Area Code) Telephone Number(s): 608-355-8952				
Email: mark.westerveld@dot.wi	.gov	Email: dwagner@	msa-ps.com			
	Work	To Be Performe	ed			
						nation Required
□ Λ Structural	<u>Item Number (see Pages 2-</u> 1–3, 22				(see Pages 2–4)	
_	1–3, 10–22, 26–28, 32, 34			20 22 24		
∐ B. Overlay □ Conc						
	ner Modified Asphalt Overlay	·	•			
☐ Other	•	Thin bonded	r diyinici Ovenay			
☐ C. New Bear	ings			3, 8, 9, 22	2	
☐ D. New Raili			15–17, 20	-23		
☐ E. Curb and			2, 3, 16, 2	2, 23		
☐ F. Abutment Repair				2, 3, 12, 1	6	
☐ G. Pier Repair						
☐ H. New Deck		1–6, 9, 10, 13–28, 32–34			28, 32–34	
☐ I. Widening1–28, 30, 32–35			5			
☐ J. Joint Repair			22			
☐ K. Surface Repair						
☐ L. Raising Bridge			24			
☐ M. Slope Sta	bilization			1–3, 30		
☐ N. Scour Repair			, 21, 27, 29, 31–35			
□ O. Painting						

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, bri	ef history of bridge of	construction date, an	d description of repai	rs 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	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	beyond eac		ld be normal to cente		structure and a minir rations at centerline ro	
⊠ 7	. Show and id	dentify starting statior	ning on bridge.			
□ 8	 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. 					
). Fixed and e	expansion bearings - o	condition and orienta	tion.		
□10). Number and	d width of proposed p	ours including const	ruction staging sequ	ence.	
□11	. Location of	existing construction	joints in the deck.			
□12	Prepar Full De Concre	ation, Decks, Type 1 ation, Decks, Type 2 opth Deck Repair opte Surface Repair Su opte Surface Repair Su	Sq. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ft Ga Ft Ga	Ivanic Anodes? Ivanic Anodes? Ivanic Anodes? Ivanic Anodes?	_ _ _
⊠13	3. Sufficiency	number: <u>64.7</u> (obtai	n from HSI Bridge In	ventory System)		
⊠14	l. Appraisal a	nd Condition Rating				
		Deck Condition	Superstructure Condition	Substructure Condition	Load Capacity Appraisal	Structural EVAL Appraisal
	Current	5	5	5	5	5
⊠ 15	5. Load Rating	s	,	•		•

	Inventory	Operational
Current	11040	11000
Calculated Date: 2018-07-31	HS19	HS33
After	TDD	TDD
Completed by Bridge Designer	TBD	TBD

Туре	Owner and Contact Information	Size	Opening at Abutment	Weight	Pressure	
ELECTRIC	CITY OF MADISON	Conduit	None			
	ridge railing deficient? No If Yes – Replacement Rail Type:		1			
] 18. Drains to be □ Raised	18. Drains to be: ☐ Raised ☐ Closed ☐ Downspouted ☐ New					
	tained on bridge during work? No If Yes – Include sketches					
⊒ 20. Will guard ra □ Yes □	ail be attached? No If Yes – Which corners?					
	be performed eliminate all deficiencies? No If No – Explain:					
	waste (asbestos) to be removed? No If Yes – Explain:					
23. Wing location	n(s) for surface drain anchors:					
	No If Yes – Explain on Page 4 ng, color system, containment, bid items)					
	dway width: <i>(new deck / widening)</i> 45 Ft. ewalk clear width: Left: 9.00 Ft. Right: 6.0	<u>00 No Change</u> Ft.				
☐ 26. Maximum in	crease in grade line elevation In.					
27. Benchmark	description to be shown					
28. Desired fina	l cross slopes on bridge Ft./Ft.					
 Streambe 		vations				
∃ 30. Slope stabili Type: Slope:	zation, provide: Quantity: CY. Ft./Ft. Fill: CY.					
C.I.P. Artic	· ——					

\boxtimes	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.

- 16. Utilities: There is an existing Electric conduit hung on the south side of the bridge on the outside face of the south wings and along the outside edge of the rigid frame superstructure. This conduit is expected to remain. There is another electric conduit, also expected to remain, which is hung under the bridge along the face of the east abutment. These conduits will not conflict with construction.
- 19. Traffic will be staged during the reconstruction of the bridge approaches on Atwood Avenue. The contractor is expected to do the bridge sidewalk widening work when two-way traffic is shifted toward the south side of the roadway and bridge.

The load rating with the proposed increased load from the sidewalk widening will be completed at final design. The bridge was recently rerated in 2018 by the Bureau of Structures to account for the recent "epoxy overlay". MSA has coordinated with the BOS and they have committed to updating the ratings based on the proposed work. These updates will be provided with the final plans and Inventory form.