☐ Grade Separation ☐ Stream Crossing ☐ Culvert								
☐ Railroad ☐ Retaining	g Wall 🔲 Noise Barrier							
☐ Sign Structure ☐ Oth	her:							
For guidance see: http://wisconsin	ndot.gov/Pages/doing-bus/eng-c	consultants/cnslt-rsr	ces/st	rct/survey.as	<u>spx</u>			
<u> </u>	Construction Project ID	Highway (Project Nan	ne)					
	1196-05-77 Preliminary Plan Due Date	USH 53 NB ☑ Town ☐ Village	. П	`itv				
4/1/2019	Chetek		nty					
PS&E Date 5/1/19	County BARRON							
Structure Number B-03-0021		Section 31	n Town Range T33N R10W					
Station	Latitude: 45DEG 18'05'N	⊠ YES □ NO	Struct	ure Located o	n National Hi			
	Longitude: 91DEG 39'14"W							
For Survey and CADD Files Horizontal Coordinate System: BARRO	ON COUNTY		Δνα	Traffic For rage Daily	ecast Data Roadwa	av/	<u> </u>	
Vertical Datum: NAVD 88		Design Year		ffic (ADT)	Design Sp		Functional Class	
Feature On USH 53 NB		Feature On 2014		5550	70MPI	1	PRINCIPAL ARTERIAL	
Feature Under CHETEK RIVER		Feature Under						
Region Contact: BERNDEN DIRKE	:S	Consultant Contact: J	larrod	Starren				
(Area Code) Telephone Number(s): (71	15	(Area Code) Telephor			20-6261			
Email: brendan.dirkes@dot.wi.go	DV .	Email: jstarren@se	ehinc.	com				
	Repair				<u>Item Nur</u> 1–3, 22	<u>mber</u>	nation Required (see Pages 2–4)	
·	□ B. Overlay							
IXI Concre	4- O							
	ete Overlay	☐ Asphalt Overla	ay					
☐ Polyme	er Modified Asphalt Overlay	☐ Asphalt Overla	ay					
☐ Polyme ☐ Other: _	er Modified Asphalt Overlay	☐ Asphalt Overla	ay Polym	er Overlay	2 0 0 22			
☐ Polyme ☐ Other: _ ☐ C. New Bearin	er Modified Asphalt Overlay	☐ Asphalt Overla	ay Polym	er Overlay				
☐ Polyme ☐ Other: _ ☐ C. New Bearin ☐ D. New Railing	er Modified Asphalt Overlay ngs gs	☐ Asphalt Overla	ay Polym	er Overlay	15–17, 20	-23		
☐ Polyme ☐ Other: _ ☐ C. New Bearin ☐ D. New Railin ☐ E. Curb and S	er Modified Asphalt Overlay ngs gs Sidewalk Repair	☐ Asphalt Overla	ay Polym	er Overlay	15–17, 20 2, 3, 16, 2	–23 2, 23		
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railin ☐ E. Curb and S ☐ F. Abutment R	er Modified Asphalt Overlay ngsgs Sidewalk Repair	☐ Asphalt Overla	ay Polyma	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1	–23 2, 23 6		
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair	er Modified Asphalt Overlay ngs Sidewalk Repair Repair	☐ Asphalt Overla	ay Polym	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1	-23 2, 23 6 6	8 32-3 <i>4</i>	
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck	er Modified Asphalt Overlay ngsgs Sidewalk RepairRepair	☐ Asphalt Overla	Polymo	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10	–23 2, 23 6 6 , 13–2		
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck. ☐ I. Widening	er Modified Asphalt Overlay ngs Sidewalk Repair Repair	☐ Asphalt Overla	Polymo	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30,	-23 2, 23 6 6 , 13-2 32-35		
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck ☐ I. Widening ☐ J. Joint Repai	er Modified Asphalt Overlay ngs gs Gidewalk Repair r	☐ Asphalt Overla	ay Polyma 	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30,2, 3, 8, 16	-23 2, 23 6 6 , 13-2 32-35		
☐ Polyme ☐ Other: ☐ ☐ C. New Bearing ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck ☐ I. Widening ☐ J. Joint Repai	er Modified Asphalt Overlay ngs Sidewalk Repair Repair ir	☐ Asphalt Overla	ay Polyme	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30, 2, 3, 8, 16 2, 3, 22	-23 2, 23 6 6 , 13-2 32-35 , 19, 2	2	
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck ☐ I. Widening ☐ J. Joint Repai ☐ K. Surface Re ☐ L. Raising Brid	er Modified Asphalt Overlay ngs Sidewalk Repair Repair r epair dge	☐ Asphalt Overla	ay Polyma 	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30, 2, 3, 8, 16 2, 3, 22 3, 6, 9, 16	-23 2, 23 6 6 , 13-2 32-35 , 19, 2	2	
☐ Polyme ☐ Other: ☐ ☐ C. New Bearing ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck ☐ I. Widening ☐ J. Joint Repair ☐ K. Surface Re ☐ L. Raising Brid	er Modified Asphalt Overlay ngs Sidewalk Repair Repair ir epair dge	☐ Asphalt Overla	ay Polymo	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30, 2, 3, 8, 16 2, 3, 22 3, 6, 9, 16 1–3, 30	-23 2, 23 6 6 , 13-2 32-35 , 19, 2	2	
☐ Polyme ☐ Other: ☐ ☐ C. New Bearin ☐ D. New Railing ☐ E. Curb and S ☐ F. Abutment R ☐ G. Pier Repair ☐ H. New Deck ☐ I. Widening ☐ J. Joint Repai ☐ K. Surface Re ☐ L. Raising Brid ☐ M. Slope Stabi ☐ N. Scour Repai	er Modified Asphalt Overlay ngs Sidewalk Repair Repair r epair dge	☐ Asphalt Overla	ay Polyman	er Overlay	15–17, 20 2, 3, 16, 2 2, 3, 12, 1 2, 3, 12, 1 1–6, 9, 10 1–28, 30, 1 2, 3, 8, 16 2, 3, 22 3, 6, 9, 16 1–3, 30 1, 2 or 3, 1	-23 2, 23 6 6 6, 13-2 32-35 , 19, 2 , 20-2	2	

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.

- ☐ 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.
- □11. Location of existing construction joints in the deck.

Preparation, Decks, Type 1	Sq. Yd. <u>100</u>	
Preparation, Decks, Type 2	Sq. Yd. <u>50</u>	
Full Depth Deck Repair	Sq. Yd. <u>25</u>	Galvanic Anodes?
Concrete Surface Repair Superstructure	Sq. Ft. <u>N/A</u>	Galvanic Anodes?
Concrete Surface Repair Substructure	Sq. Ft. <u>2</u>	Galvanic Anodes?
Curb Repair	LF. <u>N/A</u>	Galvanic Anodes?

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

	Inventory	Operational
Current	110.40	110.05
Calculated Date: 8/21/2013	HS 16	HS 25
After		
Completed by Bridge Designer		

\boxtimes	16. Utilities on/near Structure. (WisDOT policy is to avoid placing utilities on the structure.) ☐ Yes ☑ No							
	Туре	Owner and Contact I	nformation		Size	Opening at Abutment	Weight	Pressur
	•	dge railing deficient lo If Yes – Replac ntire bridge.		Wing parpaets v	will be repla	aced in kind, A	luminum ra	il will be
	18. Drains to be: ☐ Raised	☐ Closed	□ Downspouted	□ New				
		ined on bridge durir lo If Yes – Include	-					
	20. Will guard rail ⊠ Yes □ N	be attached? lo If Yes – Which	corners? South sid	de				
		e performed elimina lo If No – Explain)				
		aste (asbestos) to b lo If Yes – Explair						
\boxtimes	23. Wing location	(s) for surface drain	anchors: All four o	corners				
\boxtimes		lo If Yes – Explair ,, color system, contai	-					
		vay width: <i>(new deck</i> valk clear width: L		Ft. Right: Ft	t.			
\boxtimes	26. Maximum inci	rease in grade line	elevation <u>0</u> In.					
\boxtimes	27. Benchmark de	escription to be sho	wn					
\boxtimes	28. Desired final of	cross slopes on brid	lge <u>0.02</u> Ft./F	=t.				
		:	•	Seal Elevations	6			
	30. Slope stabiliza	·	ty: CY. CY.					
	•	ap		repair.				

\bowtie	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: Concrete overlay, replace all four wings - upper section only with in kind parapets, epoxy seal ends of prestressed girder, miscellaneous concrete repair, and replace aluminum J-rail on bridge.

Bridge will be open to traffic while construction takes place. Traffic will be maintained on the structure during construction by reducing traffic to one lane during each stage. The concrete overlay will require two pours with the first pour being 18 feet wide, and the second between 22 feet wide. Additional pours of 12 feet and 22 feet will occur on the on ramp also on the structure.

Deficient areas consist of the deck, wings.

Fixed connections.

No utilities are known to exist on the bridge.

No drains on existing bridge deck.

The beam guard at the south end of the structure will be reconstructed too current standards. The terminals at the concrete parapet on the wings will be constructed with the new attachments to accept thrie beam.

No widening of the deck will take place.

Asbestos reports are in the process of being completed by a WisDOT subconsultant.