#### STREAM CROSSING STRUCTURE SURVEY REPORT

Wisconsin	Department of	Transportation
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DT1698 6/2012								
D Stream Crossing D Box Culvert D Box Culvert Extension: D Right								
Other:			Left					
For guidance see: http://dotnet	/dtid_bos/extranet/structures/repor	ts-checklists.htm						
Design Project ID	Design Project ID Construction Project ID Highway (Project Name)							
Final Plan Due Date	Final Plan Due Date Preliminary Plan Due Date Town Village City							
PS&E Date	PS&E Date County							
New Structure Number	Existing Structure Number	Section	Town		Range	e		
Station 5	Latitude:	□ YES □ NO	Structure Located o	on National Hi	ighway	System		
For Survey and CADD Files			Traffic For	ecast Data				
Horizontal Coordinate System:			Average Daily	Roadwa	ıy			
Vertical Datum:		Design Year	Traffic (ADT)	Design Sp	eed	Functional Class		
Feature On				m	iph			
Feature Under								
Waterway:		Other:						
Region Contact: Consultant Contact:								
(Area Code) Telephone Number(s): (Area Code) Telephone Number(s):								
Email:								

#### Instructions for Structure Survey



Report submitted with Preliminary Plan requires no CADD file submittal (See ESubmittal instructions). Report submitted for development of Preliminary Plan to structure design engineer requires CADD file(s) submittal and Report submittal to Soils Engineer.

Coordinate with hydraulic 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.

In addition to this report, the following information shall be submitted.

- 1. Small County Map on which the location of proposed structure is shown in red, any highway relocation in green, and Location Map of scale not less than 1" = 2000' showing the structure location and number.
- Plan and Profile Sheet on proposed reference line of highway showing: (a) Ground line: (b) Finished grade line: (c) Profile grade line elevations at least every 100 feet for 1,000 feet each side of the structure; (d) Vertical curve control points; (e) Horizontal curve control points; (f) Curve data, including full SE and runoff distance.



**Contour Map** of the site drawn to a scale of not less than 1" = 20' with one-foot contours and showing: (a) Existing highway and structure; (b) Proposed highway alignment and R/W; (c) Station numbers; (d) North arrow; (e) Buildings; (f) Above and below ground facilities; (g) Recommended channel change; (h) Direction of stream flow; (i) Station at ends of existing structure; (j) Location of river cross sections or individual survey shots; (k) Proposed structure and extent of riprap for report submitted with preliminary plans; (I) Other features that influence design.

Typical Roadway Cross Section of proposed approaches showing: (a) Dimensions; (b) Slopes; (c) Type and width of surfacing or pavement; (d) Sidewalk, curb & gutter; (e) Subgrade and pavement thickness; (f) Clear zone width.

Stream Cross Sections at upstream and downstream face of existing bridge and at one structure length upstream and downstream. Water and streambed elevations to be taken at structure and water surface elevations 1500 feet upstream and downstream of existing bridge.



Labeled Photographs of: (a) Existing structure; (b) Upstream and downstream structures; (c) Buildings within 100 feet of the proposed structure; (d) Unobstructed panoramic view looking upstream and downstream from location of proposed structure, showing stream and floodplains; (e) Any noteworthy details on existing structure or surrounding site (i.e. downstream obstructions); (f) Air photo mosaics referenced to contour map DGN if available.



Attach a copy of the regulatory floodplain map (FEMA map) depicting the site.

Report submitted with preliminary plans - Hydraulic Report (See Bridge Manual Chapter 8) which may contain: (a) USGS guadrangle sheet showing proposed location, highway alignment and reach of river; (b) All available flood history, high water marks with date of occurrence, nature of flooding, damages, scour information, and factors affecting water stages; (c) Navigation clearance; (d) Discussion of alternatives considered, factors influencing selection.



Attach a copy of DNR initial concurrence letter.

# Summary of Comments on DT1698 Stream Crossing Structure Survey Report

## Page: 1

<ul> <li>Select the type of structure work that is being submitted if a bridge is the anticipated structure type, "Stream Crossing" should be checked. If a culvert is the anticipated structure type, "Stream Crossing" should be checked. If a culvert is the anticipated structure type, "Stream Crossing" should be checked.</li> <li>Number: 3 Author: BOS Comment Subject: Sticky Note Date: 2/2/2016 12:22:14 PM -06'00' Insert date 3 months prior to earliest PS&amp;E date.</li> <li>Number: 4 Author: BOS Comment Subject: Sticky Note Date: 11/20/2015 9:10:28 AM -06'00' Insert date 12 months prior to earliest PS&amp;E date.</li> <li>Number: 5 Author: BOS Comment Subject: Sticky Note Date: 11/20/2015 9:10:28 AM -06'00' Insert date 12 months prior to earliest PS&amp;E date.</li> <li>Number: 6 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 7:54:27 AM -06'00' Station at estimated start of structure, helps designe tro quickly locate structure in alignment file.</li> <li>Number: 6 Author: BOS Comment Subject: Sticky Note Date: 11/17/2015 4:18:42 PM -06'00' Traffic data is used in structure design and displayed on structure plans.</li> <li>Number: 7 Author: BOS Comment Subject: Sticky Note Date: 11/25/2015 5:00:28 PM -06'00' Traffic data is used in structure designed by Bio: CADD files should be submitted are Comment in Additional Information section detailing who will be doing the geotechnical work? Stor SCADD files should be submitted as CDKs. Use Gwill 30 export workflow to produce MicroStation files (a copy can be found in Chapter 7 of the SSR Manua).</li> <li>Number: 8 Author: BOS Comment Subject: Sticky Note Date: 12/11/2015 4:22:31 PM -06'00' To rotives in a DGN file are required for all in-house designed by Bio: CADD files should be submitted and Chapter and the elevation labels or elevations defined in the line properties. Ideally, contours will extend several hundred fet out form the roadway alignment. Items a-1 should be included in the super propresed structure and proximage composed ri</li></ul>	-			
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<ul> <li>geotechnical work/soil borings (In-house or Consultant). If known, what is the anticipated schedule for this work?</li> <li>For structures designed by BOS: CADD files should be submitted as DGNs. Use Civil 3D export workflow to produce MicroStation files (a copy can be found in Chapter 7 of the SSR Manual).</li> <li>Number: 8 Author: BOS Comment Subject: Sticky Note Date: 12/11/2015 4:22:31 PM -06'00'</li> <li>Ti contours in a DGN file are required for all In-house designed stream crossings; contours should be continuous line strings and have elevation labels or elevations defined in the line properties. Ideally, contours will extend several hundred feet out from the roadway alignment. Items a-I should be included in the alignment, topo/base mapping and field survey ground shots DGN files. Be sure to include proposed right-of-way or provide existing if no changes are expected; contact BOS regarding any updates. A PDF copy of the contour map is required with submittal of Consultant designed preliminary structure plan submittals.</li> <li>Number: 9 Author: BOS Comment Subject: Sticky Note Date: 12/11/2015 4:40:14 PM -06'00'</li> <li>DGN and DWG files containing surveyed stream shots are requested. It is most important to survey several points in the channel and on the stream banks. Fewer points are needed outside the banks where the surface is flatter. Include CSV file that contains point coordinates, ID and elevation labels for each shot. Cross sections should be taken at both faces of the existing structure and approximately 1 bridge length upstream and downstream. Cross sections should be the dege of the floodplain if 1' contours don't cover the desired extents.</li> <li>Number: 10 Author: BOS Comment Subject: Sticky Note Date: 12/11/2015 4:26:16 PM -06'00'</li> <li>Submit a .zip file or PDF of full page photos. Label photos or provide a key describing what is shown in each photo. See Chapter 7 of SSR Manual for examples and label/description list. (There's no such thin</li></ul>	p <u>Number:</u> 7	Author: BOS Comment	Subject: Sticky Note	
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DGN and DWG files containing surveyed stream shots are requested. It is most important to survey several points in the channel and on the stream banks. Fewer points are needed outside the banks where the surface is flatter. Include CSV file that contains point coordinates, ID and elevation labels for each shot. Cross sections should be taken at both faces of the existing structure and approximately 1 bridge length upstream and downstream. Cross sections should extend to the edges of the floodplain if 1' contours don't cover the desired extents.         Number: 10       Author: BOS Comment       Subject: Sticky Note       Date: 12/11/2015 4:26:16 PM -06'00'         Submit a .zip file or PDF of full page photos. Label photos or provide a key describing what is shown in each photo. See Chapter 7 of SSR Manual for examples and label/description list. ( <i>There's no such thing as too many pictures!</i> )         Number: 11       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 9:17:09 AM -06'00'         A FEMA floodplain map should be included for all stream crossings that are located in a mapped floodplain and can be printed from FEMA's online Flood Map Service Center (https://msc.fema.gov/portal).       Number: 12       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 8:58:14 AM -06'00'         Number: 12       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 8:58:14 AM -06'00'         Only required when submitting Consultant designed preliminary structure plans.       Date: 11/19/2015 8:58:14 AM -06'00'	1' contours in a D elevations defined in the alignment, are expected; con	GN file are required for all In-hou I in the line properties. Ideally, c topo/base mapping and field sur	use designed stream crossings; ontours will extend several hun vey ground shots DGN files. Be	contours should be continuous line strings and have elevation labels or dred feet out from the roadway alignment. Items a-I should be included sure to include proposed right-of-way or provide existing if no changes
DGN and DWG files containing surveyed stream shots are requested. It is most important to survey several points in the channel and on the stream banks. Fewer points are needed outside the banks where the surface is flatter. Include CSV file that contains point coordinates, ID and elevation labels for each shot. Cross sections should be taken at both faces of the existing structure and approximately 1 bridge length upstream and downstream. Cross sections should extend to the edges of the floodplain if 1' contours don't cover the desired extents.         Number: 10       Author: BOS Comment       Subject: Sticky Note       Date: 12/11/2015 4:26:16 PM -06'00'         Submit a .zip file or PDF of full page photos. Label photos or provide a key describing what is shown in each photo. See Chapter 7 of SSR Manual for examples and label/description list. ( <i>There's no such thing as too many pictures!</i> )         Number: 11       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 9:17:09 AM -06'00'         A FEMA floodplain map should be included for all stream crossings that are located in a mapped floodplain and can be printed from FEMA's online Flood Map Service Center (https://msc.fema.gov/portal).       Number: 12       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 8:58:14 AM -06'00'         Number: 12       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 8:58:14 AM -06'00'         Only required when submitting Consultant designed preliminary structure plans.       Date: 11/19/2015 8:58:14 AM -06'00'	■ Number: 9	Author: BOS Comment	Subiect: Sticky Note	Date: 12/11/2015 4:40:14 PM -06'00'
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examples and label/description list. (There's no such thing as too many pictures!)          Number: 11       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 9:17:09 AM -06'00'         A FEMA floodplain map should be included for all stream crossings that are located in a mapped floodplain and can be printed from FEMA's online Flood Map Service Center (https://msc.fema.gov/portal).         Number: 12       Author: BOS Comment       Subject: Sticky Note       Date: 11/19/2015 8:58:14 AM -06'00'         Only required when submitting Consultant designed preliminary structure plans.	) Number: 10			
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Only required when submitting Consultant designed preliminary structure plans.	A FEMA floodplair Map Service Cente	n map should be included for all er (https://msc.fema.gov/portal).	stream crossings that are locate	ed in a mapped floodplain and can be printed from FEMA's online Flood
	ο Number: 12			Date: 11/19/2015 8:58:14 AM -06'00'
Number: 13 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 8:58:18 AM -06'00'	Only required whe	en submitting Consultant designe	ed preliminary structure plans.	
	) Number: 13	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 8:58:18 AM -06'00'

Number: 13 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 8:58:18 AM -C E-Submit with SSR or provide to structural or hydraulic designer via email if letter is received from DNR after SSR submittal.

### **Proposed Structure**

Preference for Structure Type at this Site:							
2 esthetics Level – See Bridge Manual Chapter 4	5)						
Clear Roadway Width on Structure Ft.	Cross Slope on Deck or N.C. (Normal Crown) Ft./Ft.						
5     Sidewalks/Multi-Use Path     Left Clear Sidewalk/Path Width     4     4     4     6     6     6     7     6     7     6     7     6     7     <	ier Right Clear Sidewalk/Path Width Separation Barrier						
Specify Wing Location(s) for Beam Guard Attachment	Clear Zone Width When Beam Guard Not Used on Culvert						
Specify Wing Location(s) for Surface Drain Anchors	Ving Location(s) where Bridge Barrier/Rail Continues on Roadway Approach						
YES NO							
Project Is in Flood Hazard Area (FIS Mapped Floodplain	n)						
Structure Will be Constructed to Accommodate Traffic S	Staging $\mathcal{O}^{9}$						
Temporary Structure Required							
Riprap Required      III							
Structural Approach Slab							
Lighting Required: Bolt Circle Diameter inches							
Traffic/Lighting Staff been Notified for Review							
Conduit in Parapet: Diameter Number							
Historical Properties (Archaeological, Historic) Present N	Near Structure						
Utilities on Structure (WisDOT policy is to avoid placing utilit	ties on the structure.)						
YES NO							
Utilities will be located on the structure? (if YES, provide the following information as well as the alignme	ant and profile on Page ()						
Utilities have been approved by Region Utility Coordinate (if NO, please explain on Page 4)							
Type Owner and Contact Information	Opening at         Opening at           Size         Abutment         Weight         Pressure						

### Proposed Disposition of Existing Structure

\_

YES	NO		Removal <sup>13</sup>
		Structure will be Removed	Normal Removal
		$\Box$ Bid Item $\int 14$ ter Contract $\Box$ Other:	Removal With Minimal Debris
		Structure will Remain in Service, Purpose:	Removal With Capture System

# Page: 2

ο Number: 1	Author: BOS Comment	Subject: Sticky Note	Date: 2/2/2016 12:23:28 PM -06'00'
See <i>Bridge Manual</i> work.	<i>l Chapter 5</i> for guidance. Helps s	supervisors update estimated so	coped hours for the structure design process to appropriately assign
Number: 2	Author: BOS Comment	Subject: Sticky Note	Date: 2/2/2016 12:23:47 PM -06'00'
railing type, pier s		etc. in the Additional Information	greater is indicated, you must suggest particular requirements such as on section at the end of the form. Early notification regarding any ffect design.
p Number: 3	Author: BOS Comment	Subject: Sticky Note	Date: 2/2/2016 12:26:10 PM -06'00'
To ease design an	d construction super elevation t	ransitions should not take place	e on the bridge or approach slabs (if applicable).
Number: 4	Author: BOS Comment		Date: 11/19/2015 8:20:19 AM -06'00'
			gner. Coordination for determining if they are warranted <b>should be</b> start without confirmation of bridge cross section and total width.
pNumber: 5	Author: BOS Comment		Date: 11/19/2015 1:13:01 PM -06'00'
			y designer. Coordination for determining if they are warranted <b>should</b> of preliminary structure design and plans development.
p Number: 6	Author: BOS Comment	Subject: Sticky Note	Date: 9/21/2015 11:55:22 AM
Location (i.e. NE, S attachment is nece		affects design of the parapet.	The front face of parapet requires a transition area if beam guard
■Number: 7	Author: BOS Comment		Date: 11/19/2015 8:29:35 AM -06'00'
Location (i.e. NE, S	E, etc.). Modifications to structure	re plans are required when surf	ace drains will be used adjacent to wings.
= Number: 8	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:16:46 PM -06'00'
Location (i.e. NE, S	E, etc.). Roadway parapet may d	etermine parapet used on brid	ge, if any transitions are necessary, conduit placement, etc.
<mark>∍</mark> Number: 9	Author: BOS Comment		Date: 2/2/2016 12:25:40 PM -06'00'
Does the structura describe in detail	al designer need to design for te under <i>Additional Information</i> on	emporary roadway conditions of the last sheet and include stage	or design the structure so that it can be built in sections? If YES, please ging sketch in submittal.
■Number: 10	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:17:19 PM -06'00'
Slope protection u in front of stream	nder the bridge. See <i>Bridge Mar</i> crossing abutments. Other prote	nual Chapter 15. This will be inc ection may be considered if a p	corporated into the structure plans. Riprap slopes are commonly placed ath is present under the bridge.
<mark>∍</mark> Number: 11	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:17:36 PM -06'00'
Structural approac details. This affects	h slabs should be considered de s bridge design and plans (i.e. ab	epending on design speeds, AD outment width, wing location a	)T and settlement susceptibility. See <i>Bridge Manual Chapter 12</i> for more nd sizing, parapet length).
Number: 12	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:17:54 PM -06'00'
Foundation types present.	or construction could be affected	d by sensitive nearby sites. Pro	per coordination needs to be made when archaeological sites are
■Number: 13	Author: BOS Comment		Date: 11/19/2015 1:18:24 PM -06'00'
See comments in I spanned. See Stan	DNR Initial Review letter regardin dardized Special Provisions (STS	ng preferred removal method.   P) Articles 39, 40 and 41.	Level of removal should correspond with quality of waterway being
Number: 14	Author: BOS Comment	Subject: Sticky Note	Date: 11/20/2015 9:11:38 AM -06'00'
	e removed in later contract list th		

	Existi	ng Structures		
STRUCTURE DAT	A		AT SITE	DOWNSTREAM
Structure Number (B/P/C)	$\mathbf{C}$			2
Highway, Railroad, Path, or Structure	e Name			
Year Built				
◊ Latitude	C	5		
◊ Longitude	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	T		
‡ Distance from Proposed Site in Mil	es 🔽 🔂			
Number of Spans				
Clear Span (Between Inside Faces of S Lengths Along C.L. Rdwy/Track	ubstructure Units)			
Sidewalk: Right Side Clear Width				
Left Side Clear Width				
Roadway Width on Structure Betwee	n Curbs			
Superstructure Type		8		
Abutment Type(s)	9			
Pier Type(s) and Width(s)		10		
Is Structure Supported on Piles?		1		
Condition: Superstructure Rating	(NBI)			
Substructure Rating (N		12		
Sufficiency Rating (NB		7 <u>—</u> ———		
Skew: Stream	13			
Structure		14		
* Elevation Finished Grade				
+ + Low Chord		16		
Character of Material in Stream Bed		1		
Does Drift Pass Satisfactorily (Y/N/no	p record)			
Does Ice Pass Satisfactorily (Y/N/no	n			
Evidence of Damage From Floating I				
Streambed Scour Visible (Y/N) ®	Provide Additiona			
Streambank Scour Visible (Y/N) ®	Details on Page 5	19		
Recorded High Water Elevation - Da				
** Observed High Water Mark Elevat		<b>1</b>		
History of Flooding over Roadway (D				
	ream Flow ®	4		
•	badway Drainage ®			
Low Water Elevation				
° Ordinary High Water Mark				
Observed Water Elevation				
		4		
Streambed Elevation	Data	1500' Lipotroom ±	At Site	1500' Downotre are
Water Surface	Date	1500' Upstream ‡	At Site	1500' Downstream

Provide labeled photograph.

\* Use same vertical datum for all structures within 1500' of existing structure.

\*\* High water marks may include, but are not limited to, debris, leaves, or dirt on structure that appear to have been left by recent flooding.

+ + Take these elevations at the same location.

† Information on high water can be obtained from observation, owner, adjacent property owner, County Road Commission, Regional Planning Commission, DNR, FIS, local officials, bridge inspector, or WisDOT bridge maintenance engineer.

<sup>o</sup> If marked by DNR, "The point on the bank or shore up to which the presence and action of water is so continuous as to leave a distinct mark either by erosion, destruction of terrestrial vegetation, or other easily recognized characteristic."

‡ Measured along thread of channel. If there is an abrupt river profile change within 1500' contact hydraulic engineer for revised location.

 $\diamond~$  Lat./Long. taken at name plate location (with photograph or sketch of location).

# Page: 3

		Date: 11/19/2015 12:50:47 PM -06'00'
more stream branches upstream	of subject structure, survey b	ridge on branch with larger drainage area.
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:27:28 PM -06'00'
ctures located downstream of m	outh of the subject stream.	
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:27:11 PM -06'00'
Author: BOS Comment	Subiect: Sticky Note	Date: 11/17/2015 4:25:27 PM -06'00'
railroad name, path name (e.g. H	ank Aaron State Trail), or struc	ture name (e.g. Hoan Bridge).
Author: BOS Comment	Subiect: Sticky Note	Date: 11/19/2015 1:27:15 PM -06'00'
n one line (e.g. "43.0732, -89.459	96" copied from internet mapp	ing, decimal degrees preferred)
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:30:27 AM -06'00'
or further from the subject stru	cture this distance can be mea	sured as the crow flies, rather than along the stream thread.
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:00:45 AM -06'00'
Author: BOS Commont	Subject: Sticky Note	Date: 11/19/2015 9:00:49 AM -06'00'
Author: POS Commont	Subject: Sticky Note	Date: 11/19/2015 9:01:01 AM -06'00'
	Subject. Sticky Note	Date. 11/19/2015 9.01.01 AM -06 00
-	Culsia et: Ctialus Nata	
		Date: 11/19/2015 9:00:58 AM -06'00'
	•	
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:01:04 AM -06'00'
	Subject: Sticky Note	Date: 11/19/2015 4:57:45 PM -06'00'
<b>C</b> , , ,		
		Date: 11/19/2015 1:37:43 PM -06'00'
		The of the toadway and a line parallel to the direction of how (i.e. now
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 1:36:35 PM -06'00'
he acute angle formed by the int	ersection of a line normal to t	he centerline of the roadway with a line parallel to the face of the
j.		
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:34:15 AM -06'00'
	at face of parapet or rail; eleve	ations should be taken at each corner of the bridge and be included in
2.		
Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:34:08 AM -06'00'
girder/slab elevation at lowest c	orner of the bridge. Elevations	s should be taken at each corner of the bridge and be included in the
		Date: 11/19/2015 1:34:20 PM -06'00' mples of bed material character include, but are not limited to, silt, san
	ani bed material, il visible. Exa	inples of bed material character include, but are not influed to, sit, san
5		
	Subject: Sticky Note	Date: 11/19/2015 1:39:36 PM -06'00'
Author: BOS Comment on the superstructure may indica	ate contact between the struct	Date: 11/19/2015 1:39:36 PM -06'00' ure and ice or debris carried by high water. This will be taken into
Author: BOS Comment on the superstructure may indica	ate contact between the struct	
	More stream branches upstream Author: BOS Comment Author: BOS Comment Author: BOS Comment Author: BOS Comment railroad name, path name (e.g. H Author: BOS Comment on one line (e.g. "43.0732, -89.459 Author: BOS Comment of or further from the subject strue Author: BOS Comment and or parapets if curbs are not p Author: BOS Comment and or parapets if curbs are not p Author: BOS Comment and or parapets if curbs are not p Author: BOS Comment d, concrete, masonry. Author: BOS Comment d, concrete, masonry. Author: BOS Comment d, concrete, masonry. Author: BOS Comment atti-column, pile bents (photos ar Author: BOS Comment et timber, H-pile, cast in place, etc Author: BOS Comment n HSI Bridge Inventory System. Author: BOS Comment et angle formed by the intersectio cture is 0 degrees). Author: BOS Comment the acute angle formed by the int s. Author: BOS Comment the acute angle formed by the int s. Author: BOS Comment f girder/slab elevation at lowest c Author: BOS Comment	Author: BOS Comment       Subject: Sticky Note         ulti-column, pile bents (photos are helpful).         Author: BOS Comment       Subject: Sticky Note         e: timber, H-pile, cast in place, etc.         Author: BOS Comment       Subject: Sticky Note         m HSI Bridge Inventory System.         Author: BOS Comment       Subject: Sticky Note         e angle formed by the intersection of a line normal to the center         cture is 0 degrees).         Author: BOS Comment       Subject: Sticky Note         the acute angle formed by the intersection of a line normal to the center         cture is 0 degrees).         Author: BOS Comment       Subject: Sticky Note         the acute angle formed by the intersection of a line normal to t         s.         Author: BOS Comment       Subject: Sticky Note         corner of the bridge, top of deck at face of parapet or rail; elevation         e.         Author: BOS Comment       Subject: Sticky Note         f girder/slab elevation at lowest corner of the bridge. Elevations         Author: BOS Comment       Subject: Sticky Note

# Comments from page 3 continued on next page

		Existir	ng Structures		
	STRUCTURE DATA		UPSTREAM	AT SITE	DOWNSTREAM
Structure Number (B	3/P/C)	$\mathbf{C}$			
Highway, Railroad, F	Path, or Structure Name				
Year Built					
◊ Latitude		C			
◊ Longitude					
‡ Distance from Prop	posed Site in Miles				
Number of Spans					
Clear Span (Between Lengths Along C.L. F	n Inside Faces of Substructure Unit Rdwy/Track	ts)			
Sidewalk: Right S	Side Clear Width				
Left Si	ide Clear Width				
Roadway Width on S	Structure Between Curbs	$\mathcal{O}$			
Superstructure Type	;				
Abutment Type(s)		$\mathcal{O}^{-}$			
Pier Type(s) and Wid	dth(s)		)		
Is Structure Supporte	ed on Piles?				
Condition: Supers	structure Rating (NBI)				
Substr	ructure Rating (NBI)	C			
Sufficie	ency Rating (NBI)				
Skew: Stream	n	$\bigcirc$			
Structu	ure				
* Elevation Fi	inished Grade				
+ + Lo	ow Chord				
Character of Materia	al in Stream Bed				
Does Drift Pass Satis	sfactorily (Y/N/no record)				
Does Ice Pass Satist	factorily (Y/N/no record)				
Evidence of Damage	e From Floating Debris	$\Sigma$			
Streambed Scour Vis		litiona			
Streambank Scour V	/isible (Y/N)   Details on P	age 5			
Recorded High Wate	er Elevation - Date		20		
** Observed High Wa	ater Mark Elevation ®	O <sup>21</sup>			
History of Flooding o	over Roadway (Date or Freque	ncy)	22		
Abutment Slope Was	shout From: Stream Flow ®				
	Roadway Draina	age 🖻			
Low Water Elevation	1	23		_	
<sup>o</sup> Ordinary High Wate	er Mark			24	
Observed Water Ele	vation		25 <mark>(</mark>		
Streambed Elevation	า	26			
Water Surface Elevation	Date		1500' Upstroom ‡	At Site	1500' Downstream ‡

Provide labeled photograph.

\* Use same vertical datum for all structures within 1500' of existing structure.

\*\* High water marks may include, but are not limited to, debris, leaves, or dirt on structure that appear to have been left by recent flooding.

+ + Take these elevations at the same location.

† Information on high water can be obtained from observation, owner, adjacent property owner, County Road Commission, Regional Planning Commission, DNR, FIS, local officials, bridge inspector, or WisDOT bridge maintenance engineer.

<sup>o</sup> If marked by DNR, "The point on the bank or shore up to which the presence and action of water is so continuous as to leave a distinct mark either by erosion, destruction of terrestrial vegetation, or other easily recognized characteristic."

‡ Measured along thread of channel. If there is an abrupt river profile change within 1500' contact hydraulic engineer for revised location.

 $\diamond~$  Lat./Long. taken at name plate location (with photograph or sketch of location).

回 Number: 20	Author: BOS Comment	Subiect: Sticky Note	Date: 12/9/2015 10:17:50 AM -06'00'
	rom observation, by owner, adjac	cent property owner, County p	ersonnel, DNR, local officials, bridge maintenance/inspection personnel,
			than no elevation. Provides valuable information for evaluating potential
vulnerabilities of the	he proposed structure. May also	be used to help validate bridg	e hydraulic model.
回 Number: 21	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:01:36 AM -06'00'
			ter mark, sediment, or debris on the bridge or abutments; record
elevation at the to	p of such a mark. Indicates level	to which flood waters rose.	
回 Number: 22	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:01:38 AM -06'00'
It is important to a	account for roadway overtopping	in design if it is known to occ	ur; in some cases it may be possible and appropriate to alleviate
roadway overtopp	ing when sizing structure. May b	e acquired from local sources	listed for Recorded High Water Elevation.
= Number: 23	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 9:01:40 AM -06'00'
T			ter is 1' deep, dry, etc.). May be acquired from local sources listed for
Recorded High Wa		elevation is sufficient (e.g. wa	ter is i deep, dry, etc.j. May be acquired from local sources listed for
i i ceci a ca i i gii i re			
Number: 24	Author: BOS Comment		Date: 11/19/2015 12:53:30 PM -06'00'
			I navigation clearance is a consideration for the proposed structure. Early
			o be collected near the structure being replaced. If required, the DNR
will mark the eleva	ation at the site so that it can be	surveyed.	
回 Number: 25	Author: BOS Comment	Subiect: Sticky Note	Date: 11/19/2015 12:55:08 PM -06'00'
	ater surface in the channel near t		
		<u> </u>	
回 Number: 26	Author: BOS Comment		Date: 11/19/2015 12:53:43 PM -06'00'
Take stream bed e	levation at same location as obs	erved water elevation.	
Number: 27	Author: BOS Comment	Subject: Sticky Note	Date: 12/9/2015 10:23:12 AM -06'00'
<b>—</b> · · · · · ·			
			nge in stream profile is present. Only use elevation at upstream structure bed elevation if dry. If water surface elevation is taken at an alternate
	he distance to this point along the		See elevation in ary. If water surface elevation is taken at all diterrible
issueri, provide a	the alstance to this point doing a		

Number: 28 Author: BOS Comment Subject: Sticky Note Date: 12/9/2015 10:23:27 AM -06'00' Should be taken about 1500' downstream, location can be adjusted if subject stream joins a larger stream/river (confluence). Take elevation at mouth of subject stream if confluence exists. Only use elevation at downstream structure if it is about 1500' away or further. Used in hydraulic model input. Record streambed elevation if dry. If water surface elevation is taken at an alternate location, provide the distance to this point along the channel thread.

Number: 29 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 12:51:54 PM -06'00' Same as observed above.

### kisting Culvert Information

Number of Ba	rrels		
Barrel Width F	Perpendicular to	Walls	
Allowable Hig	h Water		
Floor: Concret	te, Earth, Silted		
If Silted	Indicate Depth	of Silt in Barrel	
Elevation:	Inlet	Invert	
		Finished Grade	
		Top of Opening	
		Top of Water	
	Discharge	Invert	
		Finished Grade	
		Top of Opening	
		Top of Water	
	For Structure	s with Concrete Aprons:	
	At Beginning	of Upstream Apron	
		Apron Elevation	
		Streambed	
		Top of Water	
	At End of Dov	wnstream Apron	
		Apron Elevation	
		Streambed	
		Top of Water	
Condition®:	Wingwalls		
	Barrel		

Attach Sketch Provide labeled photograph.

### Page: 4

Number: 1 Author: BOS Comment Subject: Sticky Note Date: 10/14/2015 10:27:29 AM See additional information for Existing Culvert section in Chapter 9 of the SSR Manual.

 Number: 2
 Author: BOS Comment
 Subject: Sticky Note
 Date: 11/20/2015 9:01:50 AM -06'00'

 Provide culvert length in addition to span of box culvert cell(s) or pipe(s).
 Date: 11/20/2015 9:01:50 AM -06'00'

#### **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.

1

The more information that can be provided, the better. This will result in fewer questions from BOS during structure design or consultant review and a better end product.

The following is not all inclusive; please add/delete discussion items to fit site/project specific details that may influence structure design:

#### Geotechnical Coordination:

Detail who is completing geotechnical work/soil borings (in-house or consultant) and anticipated schedule of work.

#### Aesthetics:

If aesthetic level 2 or higher is indicated, you must suggest particular requirements such as railing type, pier shape, new aesthetic option (type I,II or III), special form liners, stain/paint color (federal color number), etc. See Bridge Manual Chapter 4 for updated information. Also include coordination that is yet to be made. If applicable, provide B-##-### for example structures in the area that are similar to proposed or desired; attach an exhibit for reference. Contact BOS with questions.

#### Structural Approach Slabs:

If requested, provide justification for their inclusion. See Bridge Manual Chapter 12.11.

#### Proposed Structure (& Future Expansion):

Discuss proposed size and type of structure and vertical/horizontal clearances (if special clearances are required for construction staging). Describe future expansion, if any is anticipated, which may include lower roadway lane expansion, upper roadway widening, etc. Anticipated future expansion of bridge may have impacts to profile grade, consider vertical clearance requirement.

#### **Temporary Shoring:**

Describe anticipated locations of temporary shoring needed for construction. Especially important for staged construction or current structure that remains in service during construction.

#### **Construction Staging:**

Discuss construction staging in detail and describe desired sequencing; provide sketches of staging.

#### Traffic Barrier:

Discuss barrier locations, type and heights approaching the structure, if applicable.

#### Bike/Pedestrian/Other Structure Accommodations:

Discuss proposed sidewalks, multi-use paths, separation barriers, medians, wildlife passages, etc.

#### Utilities:

List utilities located under, near, or on the proposed structure. Include type of utility, action to be taken and who owns the utility. If conduit/utility will be on the proposed structure describe who will be servicing it, number and size of conduits needed and any other pertinent information. Justification for placing utilities on proposed structure and means of attaching.

#### Site Drainage:

Discuss potential drainage concerns involving the proposed structure. Possible concerns include proposed roadway drainage pipes under substructure units, anticipated need for deck drains and median drainage. Include locations of pipes and invert elevations as appropriate.

#### DNR:

Discuss the status of coordination between Region/Consultant and DNR. Include any agreements made, concerns with the site, or areas requiring special attention as expressed by DNR (e.g. AOP, etc.).

For Structure Designers Use Only Proposed Box Culvert						
Aprons		Туре		Elevations		
Inlet						
Outlet						
Openings - Number		Clear Span at Right Angl	es to Axis of Box	Inside Height of Box		
Slope of Channel at Culvert		1				
		All Propos	sed Structures			
Spans – Number:		Spans Lengths (C.L. to C	C.L. of Substructure):	Skew:	🗌 R.H.F. 🗌 L.H.F.	
Latitude:			Longitude:			
Drainage Area	Sq. Mi.	Q (100)	cfs	Existing Bridge		
High Water (100)	Ft.	Q (Struct.)	cfs	High Water (100)	Ft.	
Velocity	Ft/Sec.	Q (Rdwy.)	cfs	Regulatory High V	Vater	
Waterway Area	Sq. Ft.	Q (Suple. Struct.)	cfs		Ft.	
Scour Code				Source FIS		
Erosion Control		Temporary Structure	1	Overtopping Frequencies	uency (If>100YrsNA)	
Q <sub>2</sub> =	cfs.	Q Yr	cfs.	Q Yr	cfs.	
HW <sub>2</sub> =	Ft.	High Water	Ft.	High Water	Ft.	
		Min. A (BR)	Sq. Ft			