SEPARATION STRUCTURE SURVEY REPORT

DT1694 6/2012

Grade Separation 🗌 Railroad	Retaining Wall	Noise Barrier
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Sign Structure 🗌 High Mast Lighting 🗌 Other:

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

Design Project ID	Construction Project ID	Highway (Project Na	me)			
Final Plan Due Date	Preliminary Plan Due Date	Town Village City				
PS&E Date	Letting Date	County				
New Structure Number	Existing Structure Number	Section	Town		Range	9
Station 6	Latitude:	□ YES □ NO	Structure Located	on National H	ighway	System
For Survey and CADD Files	For Survey and CADD Files					
Horizontal Coordinate System: Vertical Datum:		Design Year	Average Daily Traffic (ADT)	Roadwa Design Sp		Functional Class
Feature On		Feature On				
Feature Under		Feature Under				
Region Contact:		Consultant Contact:	1			L
(Area Code) Telephone Number(s):		(Area Code) Telepho	one Number(s):			
Email:		Email:				

Instructions for Structure Survey

Report submitted with Preliminary Plan requires **no** CADD file submittal (see ESubmittal instructions).

⁸ Report submitted for development of Preliminary Plan to structure design engineer requires CADD file(s) submittal and Report submittal to Soils Engineer.

Coordinate with 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.

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 feature on and feature under showing the following:

 (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;
 (g) For railroad project, survey top of each rail and provide proposed geometrics in conformance with railroad company standards.
- Layout Sketch of the site drawn to a scale of not less than 1 inch = 100 feet showing the following:

 (a) Existing highway and structure;
 (b) Proposed highway alignment and R/W;
 (c) Station numbers;
 (d) Reference line intersection stationing and intersection angle;
 (e) North Arrow;
 (f) Buildings;
 (g) Above and below ground facilities;
 (h) Proposed structure when report submitted with Preliminary Plan;
 (l) Railroad company stationing;
 (j) Station at ends of existing structure;
 (k) Other features which influence the design.
- 4. Typical Sections of all roadways showing the following:
 (a) Dimensions; (b) Slopes; (c) Type and width of surfacing or pavement; (d) Subgrade; (e) Sidewalk, curb and gutter;
 (f) Median treatment at underpass mounted or ditch section; (g) Clear zone width; (h) Horizontal clearances at underpass.



Labeled Photographs of: (a) Existing structure; (b) Site pictures in all controlling directions including, but not limited to North, East, South and West; (c) Buildings within 100 feet of proposed structure.

Summary of Comments on Microsoft Word dt1694.doc

Page: 1

뼺 Number: 1	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 8:54:14 AM -06'00'
Select the type	e of structure work that is	being submitted.	
回 Number: 2	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 8:54:28 AM -06'00'
Example: Pede	estrian tunnel under railro	ad.	
回 Number: 3	Author: BOS Comment	Subject: Sticky Note	Date: 11/17/2015 1:35:11 PM -06'00'
Insert date 12 m	onths prior to earliest PS&E o	late.	
) Number: 4	Author: BOS Comment	Subject: Sticky Note	Date: 11/17/2015 1:35:41 PM -06'00'
Insert date 3 mc	onths prior to earliest PS&E da		
回 Number: 5	Author: BOS Comment	Subject: Sticky Note	Date: 11/17/2015 1:41:36 PM -06'00'
	gitude of proposed structure	can be found using interne	t mapping. Helps design engineer or reviewer to locate the
structure.			
⊜ <mark>Number: 6</mark>	Author: BOS Comment		Date: 10/15/2015 12:12:37 PM
Station at estimation	ated start of structure; helps o	lesigner to quickly locate str	ructure in alignment file.
🤤 Number: 7	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 8:43:23 AM -06'00'
Traffic data is us	ed in structure design, displa	yed on structure plans.	
) Number: 8	Author: BOS Comment	Subject: Sticky Note	Date: 11/25/2015 5:00:29 PM -06'00'
			omment in Additional Information section detailing who will
			ant). If known, what is the anticipated schedule for this work?
			ed as DGNs. Use Civil 3D export workflow to produce
MicroStation fil	es (a copy can be found in	Chapter 7 of the SSR Manu	ual).

Number: 9 Author: BOS Comment Subject: Sticky Note Date: 11/30/2015 12:29:15 PM -06'00' Submit .pdf full page photos. Label photos or provide a key describing what is shown in each photo. (There's no such thing as too many pictures!)

		Pro	posed Structu	re			
Preference for Stru	cture Type at this Site:		🗌 No	Preference			
	Arethetics Level – See Bridge Manual Chapter 4 2 1 2 3 4 (For Levels 2, 3 & 4 Explain on Page 3)						
Spans- Number							
Clear Roadway Width on Structure Cross Slope on Deck or N.C. (Normal Crown) 5 Skew 7 6 Ft. Ft./Ft. L.H.F. L.H.F.] L.H.F.		
9ewalks/Multi-Us Yes IN	Dewalks/Multi-Use Path Left Clear Sidewalk/Path Width Beparation Barrier Right Clear Sidewalk/Path Width Separation Barrier Yes No Ft. Yes No Ft. Yes No						
Type of Slope Prote	ection 10	_					
Specify Wing Locat	tion(s) for Beam Guard Attachn		Specify Wing Location	n(s) for Surface Dra	ain Anchors	2	
Specify Wing Locat	tion(s) where Bridge Barrier/Ra	il Continues on Roadway	Approach 713				
	 Structure Will be Constructed to Accommodate Traffic Staging 14 Structural Approach Slab Lighting Required: Bolt Circle Diameter inches Traffic/Lighting Staff been Notified for Review Conduit in Parapet: Diameter Number 						
Utilities on S	Structure (WisDOT po	licy is to avoid pla	cing utilities on th	e structure.)			
(if	YES NO						
	Utilities have been approved by Region Utility Coordinator or previously approved by the Bureau of Structures? (if NO, please explain on Page 3)						
Туре	Owner and Contact Info	ormation		Size	Opening at Abutment	Weight	Pressure

Proposed Disposition of Existing Structure

YES	NO	
		Structure will be Removed
		□ Bid Item 💭 Later Contract □ Other:
		Structure will Remain in Service, Purpose:

For Structure Designers Use Only Proposed Structure					
Spans – Number:	Span Lengths (C.L. to C.L. of Substructure): Skew:	R.H.F. L.H.F.			
Latitude:	Longitude:				

Page: 2

■Number: 1	Author: BOS Comment	Subject: Sticky Note	Date: 11/17/2015 2:24:10 PM -06'00'
	ual Chapter 5 for guidance. He		imated scoped hours for the structure design process to
Number: 2	Author: BOS Comment	Subject: Sticky Note	Date: 11/19/2015 10:52:57 AM -06'00'
requirements s	<i>ual 4.6 Levels of Aesthetics</i> f uch as railing type, pier shap	or a description of each. De, special form liners, col	If level 2 or greater is indicated, you must suggest particu or, etc. in the <i>Additional Information</i> section at the end of lied to structure is required as it can significantly affect
<mark>∍Number: 3</mark>	Author: BOS Comment	Subject: Sticky Note	Date: 10/15/2015 2:21:40 PM
	measured from centerline of ed up to the nearest foot.	f bearing of substructure	to centerline of bearing of substructure. Span lengths are
<mark>⊜</mark> Number: 4	Author: BOS Comment	Subject: Sticky Note	Date: 11/18/2015 10:29:08 AM -06'00'
	ors an indication of bridge so sign work. Also gives structu		date estimated scoped hours for the structure design process nt.
■ Number: 5	Author: BOS Comment		Date: 11/19/2015 10:53:19 AM -06'00'
lo ease desigi applicable).	h and construction super e	elevation transitions sho	ould not take place on the bridge or approach slabs (if
pNumber: 6	Author: BOS Comment	Subject: Sticky Note	Date: 11/18/2015 10:28:57 AM -06'00'
			skew indicates that looking up station, the left side of the H.F.) skew indicates that the right side of the structure is furthe
up station than t			-
Number: 7	the left side. Author: BOS Comment		Date: 10/15/2015 11:39:53 AM
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Comments from page 2 continued on next page

Proposed Structure					
Preference for Structure Type at this Site:	Preference for Structure Type at this Site:				
Aesthetics Level – See Bridge Manual Chapter 4					
☐ 1 ☐ 2 ☐ 3 ☐ 4 (For Levels 2, 3 & 4 Explain on Page 3)					
Spans- Number					
Clear Roadway Width on Structure Cross Slope on Deck or N.C. (Normal Crown) Skew Image: Cross Slope on L.H.F. Ft. Ft./Ft. L.H.F.] L.H.F.
idewalks/Multi-Use Path Left Clear Sidewalk ☐ Yes ☐ No Ft.	k/Path Width Separation Barrier	Right Clear Sidewa Ft.	alk/Path Width	Separation E	Barrier
Type of Slope Protection					
Specify Wing Location(s) for Beam Guard Attachme	ent Specify Wing Location	(s) for Surface Dra	in Anchors		
Specify Wing Location(s) where Bridge Barrier/Rail	Continues on Roadway Approach				
YES NO			Vertical Cle	earance Desig	n
Constructure Will be Constructer	ed to Accommodate Traffic Staging		□ 14' 9" to	-	
🔲 🔲 Structural Approach Slab			□ 16' 3" to	16' 9"	
Lighting Required: Bolt Circ	cle Diameter inches				
□ □ Traffic/Lighting Staff been N	Notified for Review		Other:		
Conduit in Parapet: Diameter	er Number				
Historical Properties (Archa	aeological, Historic) Present Near Struct	ture <mark>16</mark>			
Utilities on Structure (WisDOT pol	licy is to avoid placing utilities on the	e structure.)			
YES NO					
 Utilities have been approved by Region Utility Coordinator or previously approved by the Bureau of Structures? (if NO, please explain on Page 3) 				•	
Type Owner and Contact Infor		Size	Opening at Abutment	Weight	Pressure

Proposed Disposition of Existing Structure

YES	NO		
		Structure will be Removed	
		Bid Item	Other:
		Structure will Remain in Service, Pu	

18 r Structure Designers Use Only Proposed Structure					
Spans – Number:	Span Lengths (C.L. to C.L. of Substructure): Skew:	R.H.F. L.H.F.			
Latitude: Longitude:					

If YES, please describe in detail under Additional Information on the last sheet and include staging sketch in submittal.

- Number: 15 Author: BOS Comment Subject: Sticky Note Date: 11/18/2015 9:08:28 AM -06'00' Structural approach slabs should be considered depending on design speeds, ADT, and settlement susceptibility. See Bridge Manual Chapter 12 for more details. This affects bridge design and plans (i.e. abutment width, wing location and sizing, parapet length).
- Number: 16 Author: BOS Comment Subject: Sticky Note Date: 11/18/2015 9:09:06 AM -06'00' Foundation types or construction could be affected by sensitive nearby sites. Proper coordination needs to be made when archaeological sites are present.
- Number: 17 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 1:12:19 PM -06'00' If structure is to be removed in a different contract list the construction ID for the removal.
- Number: 18 Author: BOS Comment Subject: Sticky Note Date: 11/19/2015 8:55:00 AM -06'00' For consultant designs: fill out this portion based on the preliminary plans and submit with the plans.

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.

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 more is indicated, you must suggest particular requirements such as railing type, pier shape, 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 stage construction or current structure that remain 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.