2015 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62079 CO Road E (CSAH 15 over BNSF RR

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: WHITE BEAR LAKE

Date(s) of Inspection: 11/12/2015 Equipment Used:

Owner: County Highway Agency

Inspected By: Bodelson, Dan; Essler, Brian

Report Written By: Dan Bodelson Report Reviewed By: Nicklaus Fischer Final Report Date: 01/05/2016

MnDOT Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128



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MnDOT Structure Inventory Report

Bridge ID: 62079 CO Road E	(CSAH 15 OVER BNSF RR	Date: 01/05/2016
GENERAL	ROADWAY	INSPECTION
Agency Br. No.	Bridge Match ID (TIS) 0	Userkey 102
District Metro	Roadway O/U Key Route On Structure	Unofficial Structurally Deficient N
Maint. Area Crew	Route Sys 04 - CSAH Number 15	Unofficial Functionally Obsolete N
County 062 - Ramsey	Roadway Name or Description	Unofficial Sufficiency Rating 98.2
City WHITE BEAR LAKE	CSAH 15	Routine Inspection Date 11/12/2015
Township	Level of Service 1 - MAINLINE	Routine Inspection Frequency 24
Desc. Loc. 0.2 MI E OF JCT TH 61	Roadway Type 2 - 2-way traffic	Inspector Name County, Ramsey
Sect., Twp., Range 34 - 030N - 22W	Control Section (TH Only)	Status A - Open
Latitude Deg 45 Min 3 Sec 1.07	Reference Point 009+00.621	NBI CONDITION RATINGS
Longitude Deg 93 Min 1 Sec 57.75	Detour Length 2.0 mi	Deck 7 - Good Condition
Custodian 02 - County Highway Agency	Lanes On 4 Under 0	Unsound Deck %
Owner 02 - County Highway Agency	ADT 12948 Year 2008	Superstructure 7 - Good Condition
BMU Agreement	HCADT 259 ADTT 2 %	Substructure 7 - Good Condition
Year Built 1977		Channel N - Not Applicable
MN Year Reconstructed	Functional Class 16 - Urban - Minor Arterial	Culvert N - Not Applicable
FHWA Year Reconstructed		NBI APPRAISAL RATINGS
MN Temporary Status	If Divided NB-EB SB-WB	Structure Evaluation 7
Bridge Plan Location 1 - CENTRAL	Roadway Width 62.00 ft. ft.	Deck Geometry 6
Date Opened to Traffic 1/1/1977	Vertical Clearance ft. ft.	Underclearances 9
On-Off System 1 - ON	Max. Vert. Clear. ft. ft.	Water Adequacy N - Not Applicable
Legislative District 54B	Horizontal Clear. 61.9 ft. ft.	Approach Alignment 8 - Equal to present desirable
STRUCTURE	Lateral Clearance ft. ft.	
	Appr. Surface Width 60.0 ft.	SAFETY FEATURES
Service On 5 - Highway-pedestrian	Bridge Roadway Width 62.0 ft.	Bridge Railing 1 - MEETS STANDARDS
Service Under 2 - Railroad	Median Width On Bridge ft.	GR Transition 1 - MEETS STANDARDS
Main Span Type 5 - Prestress or Precast 01 - Beam Span	MISC. BRIDGE DATA	Appr. Guardrail 1 - MEETS STANDARDS
	Structure Flared 0 - No flare	GR Termini 1 - MEETS STANDARDS
Main Span Detail Appr. Span Type	Parallel Structure N - No parallel structure	IN DEPTH INSP.
Appl. Spall Type	Field Conn. ID	Y/N Freq Date
Appr. Span Detail	Abutment Foundation 1 - CONC	Frac. Critical
Skew 10 R	(Material/Type) 3 - FTG PILE	Underwater
Culvert Type	Pier Foundation 1 - CONC	Pinned Asbly.
Barrel Length ft.		Spec. Feat.
Cantilever ID	(Material/Type) 1 - SPRD SOIL	WATERWAY
	Historic Status 5 - Not eligible	Drainage Area (sq. mi.)
	PAINT	Waterway Opening sq. ft.
MAIN: 3 APPR: 0 TOTAL: 3	Year Painted	Navigation Control N - Not applicable, no waterw
Main Span Length 50.8 ft.	Unsound Paint %	Pier Protection Nav. Clr. (ft.) Vert. ft. Horiz. ft.
Structure Length 154.0 ft.	Painted Area sq. ft.	Nav. Cir. (ft.) Vert. ft. Horiz. ft. Nav. Vert. Lift Bridge Clear. (ft.)
Deck Width (Out-to-Out) 86.3 ft.	Primer Type	MN Scour Code A - NON WATER' Year
Deck Material 1 - Concrete Cast-in-Place	Finish Type	CAPACITY RATINGS
Wear Surf Type 4 - Low Slump Concrete Wear Surf Install Year 1977		
Wear Course/Fill Depth 0.12 ft.	BRIDGE SIGNS	Design Load 5 - HS 20
Deck Membrane 0 - None	Posted Load 0 - Not Required	Operating Rating 1 - LF (LF) HS 42.6
Deck Rebars 1 - Epoxy Coated Reinforcing	Traffic 0 - Not Required	Inventory Rating 1 - LF (LF) HS 25.5
Deck Rebars Install Year 1977	Horizontal 0 - Not Required	Posting VEH: SEMI: DBL:
	Vertical N - Not Applicable	Rating Date 5/5/2003
Structure Area (Out-to-Out) 13290 sq. ft.		MnDOT Permit Codes
· · · ·		
		A: 1 - No Restriction
Roadway Area (Curb-to-Curb) 9548 sq. ft.		A: 1 - No Restriction B: 1 - No Restriction

MnDOT Structure Inventory Report

Additional Roadways

Bridge ID: 62079

CO Road E (CSAH 15 over BNSF RR

Date: 01/05/2016

MnDOT BRIDGE INSPECTION REPORT

01/05/2016

Inspector: County, Ramsey

BRIDGE 62079 CO Road E (CSAH 15 OVER BNSF RR

ROUTINE INSP. DATE: 11/12/2015

County	r: Ramsey		Location: 0.2 M	I E OF JCT TH 61		Length:	1	54.0 ft.				
City:	WHITE BEAR LAKE	I	Route: 04 - CSAI	H 15 Ref. Pt.:	009+00.621	Deck Width: 86.3 ft.						
Townsl	hip:	(Control Section:			Rdwy. Ar	ea/ Pct. Un	snd: 9548	sq. ft. / %)		
Sectior	n: 34 Township: 030	N Range: 22W	2W Maint. Area:				Paint Area/ Pct. Unsnd: sq. ft. / %					
Span T List:	ype: 5 - Prestressed Concre Stringer/Multi-beam or		Local Agency B	ridge Nbr.:	Culvert: N/A Postings:							
NBI De	eck: 7 Super: 7 S	ub: 7 Chan	: N Culv: N	J		0						
			Open, P	osted, Closed: A	- Open							
			MN Sco	ur Code: A - NON	I WATERWAY							
	sal Ratings - Approach: 8		N			Un	official Stru	acturally De	eficient	Ν		
Require	ed Bridge Signs - Load Post	•			Not Required	Un	official Fun	ctionally C	bsolete	Ν		
	Horiz	ntal: 0 - Not Req	uired	Vertical: N -	Not Applicable	Un	official Suf	ficiency Ra	iting	98.2		
Struct	ure Unit:											
ELEM NBR	ELEMENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5		
109	Prestressed Concrete Giro	der 2	Routine	11/12/2015	1384 LF	0	1382	2	0	N/A		
			Routine	11/27/2013	1384 LF	0	1382	2	0	N/A		
	Requ	iires Monitorin	g	Monitore	b							
		2007-2015] Girde pre-stressed be		nd has moderate s	ize spall.							
205	Reinforced Concrete Colu	mn 2	Routine	11/12/2015	10 EA	0	10	0	0	N/A		
			Routine	11/27/2013	10 EA	0	10	0	0	N/A		
	Requ	iires Monitorin	g	Monitore	b							
	[2003-20	15] Minor spalls a		all at base. e are spalls at sout iers have RR crasl		trut.						
215	Reinforced Concrete Abutment	2	Routine	11/12/2015	180 LF	172	8	0	0	N/A		
			Routine	11/27/2013	180 LF	172	8	0	0	N/A		
	Requ	iires Monitorin	g	Monitore	b							
		2015] 3" x 2" spal 15] The south 1/2		ts have 4 vertical o	cracks. 4X2 X 2	' = 16 LF o	f vertical cr	acks.				
004	Deinforced Constate Dist	Con		4440/004-		100	0	0	0	N1/A		
234	Reinforced Concrete Pier	Cap 2	Routine	11/12/2015	180 LF	180	0	0	0	N/A		
			Routine	11/27/2013	180 LF	180	0	0	0	N/A		
	Requ	iires Monitorin	g		b							
	Notes: [2	2003-2015] No de	eficiencies of conc	crete pier cap. The	re is some debr	is on top o	f the concre	ete caps.				

Structure Unit: ELEM QTY QTY QTY QTY QTY NBR ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS 1 CS 2 CS 3 CS 4 CS 5 0 0 Strip Seal Deck Joint 2 180 LF 180 N/A N/A 300 Routine 11/12/2015 180 LF 0 180 0 N/A N/A Routine 11/27/2013 Requires Monitoring Monitored Notes: [2003-2015] Minor leakage, needs to cleaned and flushed for further inspection. Type "H" strip seal installed at abutments 1977. Poured Deck Joint 0 N/A 301 2 180 LF 0 180 N/A Routine 11/12/2015 0 180 LF 180 0 N/A N/A Routine 11/27/2013 Requires Monitoring Monitored Notes: [2003-2015] Minor adhesion and cohesion failures. Some leaching below pier joints. 310 Elastomeric (Expansion) 2 Routine 11/12/2015 27 EA 27 0 0 N/A N/A Bearing 27 EA 27 0 0 N/A N/A Routine 11/27/2013 Requires Monitoring Monitored Notes: [2003-2015] Abutment bearings encased by concrete diaphragms. Some minor deterioration. **Fixed Bearing** 2 27 EA 27 0 0 N/A N/A 313 Routine 11/12/2015 27 0 0 Routine 11/27/2013 27 EA N/A N/A Requires Monitoring Monitored Notes: [2013-2015] Interior bearings (Both piers) are fixed. Some minor deterioration. **Concrete Approach** 2 EA 0 2 0 0 321 2 11/12/2015 N/A Routine Slab-Concrete Wearing Surface 2 11/27/2013 2 EA 0 0 0 N/A Routine Requires Monitoring Monitored Notes: [2011-2015] Moderate spalls are present on both approach panels. There is some deterioration of the west approach slab at construction joint. [2009-2015] There is minor- moderate settlement of both approach panels. [2013-2015] The west approach slab has 40 LF of major longitudinal cracks. The east approach slab has 40 LF of moderate longitudinal cracking. The approach panel cracks require rehabilitation. Some major spalls are present at cracks. [1985] Approach modified to match widened sidewalk.

Struct	ure Unit:										
ELEM NBR	ELEMEN	Γ NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
333	Masonry, Other Combination Ma		2	Routine	11/12/2015	308 LF	0	308	0	N/A	N/A
NBR 333 358 359		3		Routine	11/27/2013	308 LF	0	308	0	N/A	N/A
		Requires	Monitori	ng	Monitored	ł					
		[2007-2015] T [2007-2015] T Concrete para [2003-2015] C	here are s here are n pet also n Chain link fe	vest end & @ center of ome scrapes on the r nid section vertical cra eeds surface treatme ence is bent outward parapet & 6 FT C-L fe	north side due to acks with efflores nt. at the NW corne	scence at fence	posts.				
358	Concrete Deck (Smart Flag	Cracking	2	Routine	11/12/2015	1 EA	0	1	0	0	N/A
	0			Routine	11/27/2013	1 EA	0	1	0	0	N/A
		Requires	Monitori	ng	Monitored	Ł					
		Notes: [2013- are 250 LF of	2015] The unsealed i	re are numerous moderate size cracks	derate size trans [.]	verse and diago	onal cracks	s. Diagonal	cracking a	t the corne	rs. There
359	Underside of Co Smart Flag	ncrete Deck	2	Routine	11/12/2015	1 EA	0	1	0	0	0
				Routine	11/27/2013	1 EA	0	1	0	0	0
		Requires	Monitori	ng	Monitored	ł					
		Span #1 [2011-2015] B crack w/efflore [2013-2015] B [2013-2015] B [2013-2015] B [2015] Betwee Midspan [2011-2015] T Span #3 [2013-2015] B [2013-2015] B conserverse crassing barrier anchor [2013-2015] B diagonal crack [2013-2015] U	Between gin bescence be between gin between gin en girders a chere are 2 between gin here is a 4 acks w/eff. s placed d between #7 ks w/efflore Inderside c	al distressed area is la rders #2 & #3 near ab etween girders #2 & # i & #6 girders there is rders #7 & #8 @ west rders #8 & #9 @ west abutt transverse cracks w/ rders #2 & #3 at abutt ' diagonal crack w/eff between pier & east a uring staged construct ' & #8 there are 1- 6' isecence . of deck has a total of ing below pier joints.	butment there is a 3 near abutment a 6" X 6" & 1.5' t abutment there t abutment there ment some delar /efflorescence betweet florescence betweet abutment betweet ction 1983. The p and 2- 4' diagona	a 1' X 2' spall witt x 6" spall at pie are 4 diagonal is a 6' diagonal nination (4' x 6" etween #6 & #7 me delamination een girders #6 en girder #6 & # patches are still al cracks w/ effo	r. cracks with crack with & 2' x 6") girders at and corro & #7 near 7. Betwee holding. prescence	n effloresce n effloresce mid span. Dision prese east abutm n #6 & #7 t	ence. nce. nt. hent. There here are se	e are also to everal patc	wo hes from

Struct	ure Unit:										
ELEM NBR	ELEMEN	ΓΝΑΜΕ	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
377	Low Slump O/L Deck with Epoxy		2	Routine	11/12/2015	13293 SF	0	13293	0	0	0
377 L 380 S 387 R		,		Routine	11/27/2013	13293 SF	0	13293	0	0	0
		Requires	Monitorii	ng		i					
		Numerous tran [2007-2015] Di [2011-2015] Th [2005-2015] Lo [1977] Low slu	sverse an stress dec nere are 3 ow slump v mp overlay	e is approximately 2 d diagonal cracks de k area is < 2.0%. moderate - major sp vearing surface has 6 / (3 Lanes - 1 each c overlay has light scal	eveloping through alls@ expansion exposed aggrega firection & center	out deck. Mode device on the e ate.	erate size o	liagonal cra	acking at co	orners.	
380	Secondary Struc Elements	ctural	1	Routine	11/12/2015	72 EA	0	72	0	0	N/A
				Routine	11/27/2013						
		Requires	Monitorii	ng		i					
	Notes: [2005-2015] Concrete diaphragms in place.										
387	Reinforced Cond	crete Wingwall	2	Routine	11/12/2015	4 EA	2	2	0	0	N/A
				Routine	11/27/2013	4 EA	2	2	0	0	N/A
		Requires	Monitorii	ng	Monitored	1					
		[2015] 3' minor [2013-2015] S [2013-2015] N	[·] vertical cr W wingwal E WW con	rack in top of SE win rack in NW wingwall. I has minor horizonta tains two moderate s wingwalls has some	al cracking with a spalls.	-	l on top.				
004	Critical Finding S	Smort Flog	2	Douting	44/40/0045	1 EA	1	0	N/A	N/A	N/A
964	Chicar r multing C	Smart Lag	2	Routine Routine	11/12/2015 11/27/2013	1 EA	1	0 0	N/A	N/A	N/A
		Requires	Monitorii			1					
				· 9 E THIS CRITICAL FI							
981	Signing		2	Routine	11/12/2015	1 EA	1	0	0	0	0
				Routine	11/27/2013	1 EA	1	0	0	0	0
		Requires	Monitorii	ng	Monitored	i					
		Notes: [2007-2	2015] All re	equired signing is in	place.						

Struct	ure Unit:										
ELEM NBR	ELEMENT	NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
982	Approach Guard	rail	2	Routine	11/12/2015	1 EA	0	1	0	N/A	N/A
				Routine	11/27/2013	1 EA	0	1	0	N/A	N/A
ELEM 982 984 985		Requires	s Monitori	ng		Ł					
				rdrail system has no ge to guardrail syste			rs, but due	e to low spe	ed not req	uired.	
004	Dock & Approad	h Drainaga	0	Deuties	44/40/0045	1 EA	1	0	0	N/A	N/A
984	Deck & Approacl	n Dialitage	2	Routine Routine	11/12/2015 11/27/2013	1 EA	1	0	0	N/A	N/A
							·	Ū	Ū		
			s Monitori	-							
		Notes: [2003	3-2015] Drai	ns to the west. Syste	em is functioning	properly.					
985	Slopes & Slope I	Protection	2	Routine	11/12/2015	1 EA	0	1	0	N/A	N/A
505		lotootion	2	Routine	11/27/2013	1 EA	0	1	0	N/A	N/A
		Requires	e Monitori	na	Monitored	4					
	Requires Monitoring Monitored Notes: [1988-2015] Bituminous aggregate slopes are loose and be			ad Minar	to use down	to dotonion					
		application is			opes are loose al	to being displac					
986	Curb & Sidewalk		2	Routine	11/12/2015	1 EA	0	1	0	N/A	N/A
				Routine	11/27/2013	1 EA	0	1	0	N/A	N/A
		Requires	s Monitori	ng		ł					
		[2007-2015] [2007-2015] [2007-2015]	Curb has a : Sidewalk ha There is a 2	n south curb from sn 2' X 6" major spall or s transverse crackin " drop off at SE corn T north, 12 FT south	n south side near g on both sides. S er, 2" drop off at l	Sidewalk has n					
988	Miscellaneous Ite	ems	2	Routine	11/12/2015	1 EA	0	1	0	N/A	N/A
				Routine	11/27/2013	1 EA	0	1	0	N/A	N/A
		[2013-2015]	9-2015] One Graffiti is on	ng active RR track belo abutments, girders, t NE corner is on roa	pier columns, pie	er webs and wir	gwalls.				
	General Notes:	2013 bridge 2011 bridge Photos. 200 2007 Bridge 2005 Bridge	e safety insp e safety insp 05. 2009 Bri e safety insp e safety insp e safety insp	pection by Dan Bode pection by B. Wieman pection by B. Wieman dge safety inspection pection was complete pection by Bret Wiem postructed in 1977.	n and D. Bodelso n and D. Bodelso n was completed ed by B. Wieman	n on 11/27/201 n. by B. Wieman. and B. Essler 8	3. 3/17/2007.				
	58. Deck NBI:	Concrete d	eck has min	or cracking, leaching	g & scale.						
36A. I	Brdg Railings NBI:	Vehicular ra	ailings meet	current standards.							
36E	3. Transitions NBI:	Guardrail tr	ansitions m	eet current standard	S.						
36C. A	ppr Guardrail NBI:	Approach g	juardrail me	ets current standard	S.						

Structure U	nit:										
ELEM NBR	ELEMENT	NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
	pr Guardrail erminal NBI:	Guardrail terr	ninations ı	meet current standar	ds.						
59. Superst	ructure NBI:	Concrete has	minor cra	cking & spalls.							
60. Substructure NBI:		Abutments &	Piers have	e minor cracking & sp	oalls.						
61. C	hannel NBI:	Roadway ove	er BNSF R	R.							
62.	Culvert NBI:	Roadway ove	er BNSF R	R.							
71. Waterwa	y Adeq NBI:	Roadway ove	er BNSF R	R.							
	pr Roadway gnment NBI:	No speed rec	luction req	uired.							
Inve	ntory Notes:										

Dan Bodelson

Inspector's Signature

Nicklaus Fischer

Reviewer's Signature



Photo 1 -



Photo 2 -



Photo 3 -



Photo 4 -



Photo 5 -



Photo 6 -



Photo 7 -



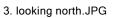
Photo 8 -





2. east bearings.JPG







4. looking south.JPG



5. more cracks under bridge.JPG



6. south beams.JPG



7. west bearings.JPG

8. west pier.JPG



Culvert

Bridge No.: 62079

Culvert								
Item	Description	Condition	Comments					
Culvert Overall:	NBI Item 62	<u>N</u>	- Roadway over BNSF RR.					

MnDOT Scour Code: A - NON WATERWAY

	Waterway Inspection									
ltem No.	Yes, No, NA or Not Visible	Description								
1.		Is there a significant build-up of debris?								
2.		Is there erosion of the embankment around the headwalls?								
3.		Is there any indication of cracking or settlement of the culvert barrel or headwalls?								
4.		Is there shifting of the channel alignment or erosion of the stream banks? Also are there cracks in the soil of the banks parallel to the stream?								
5.		Do scour measurements indicate that the streambed is below the bottom of the cutoff walls at the ends of the culvert?								
6.		Is there evidence of distress in the roadway or approaches such as cracks in the pavement and sags in the guardrail or roadway? Also, is there cracking, erosion, or failure of the side slopes at or adjacent to the culvert?								
7.		Is there an indication of "piping" of water along the outside of the culvert such as cavities adjacent to the barrel?								
8.		Is the culvert without a bottom and scour measurements indicate that the streambed is below the plan streambed elevations?								
9.		Has the riprap or other scour protection been damaged or otherwise made ineffective?								
10.		If the culvert was designed to be buried (fill inside the culvert), is the material still in the barrel?								

Notes:

- Streambed sounding data is to be documented.

- Soundings of the streambed should be done at each end of the culvert. If Items #5 or #8 are "Yes", then a streambed profile of the scoured area should be done.

- If "Yes" is the answer to any items on the checklist, notify the Program Administrator for further instructions.

Comments:

Completed On

Bу

Channel

				Bridge No.: 62079
			Chann	el
	ltem	Description	Condition	Comments
Channe	l Overall:	NBI Item 61	N	- Roadway over BNSF RR.
		В	ank Protection	/Revetment
Upstrea	Item m Bank Protection	Description	Condition	Comments
Downst	ream Bank Protect	ion:		
Bridge I	Revetment:			
MnDOT	Scour Code:	A - NON WATERWAY	, 	
			Underwater In	spection
Underw	ater Inspection By	Divers:		
No. of P	iers To Be Inspect	ed:		
			Naterway Char	acteristics
	ce Point:	High Wat	er Elev.:	Current Water Elev.:
Pile Tip	Elev.:	Low Wate	er Elev.:	Current Streambed Elev.:
		Scour Ho	ble Elev.:	Current Scour Hole Elev.:
		Waterway Ins	spection: (Not a	applicable for culverts)
ltem No.	Yes, No, NA or Not Visible		Descrip	tion
1.		Is there a significant build-	up of debris?	
2.		Is there a change in the ho	rizontal alignment	of the handrail or structure members such as beams?
3.		Is there any indication of ve	ertical movement o	f the superstructure?
4.		Is there shifting of the char banks parallel to the strear		rosion of the stream banks? Also are there cracks in the soil of the
5.		Is there a significant chang	e in the alignment	of hte exterior bearings?
6.		Are there cracks or other s	igns of distress in t	he approach pavement?
7.		Is the water currently on th	e superstructure?	
8.		Are the slopes unstable?		
9.		Do scour measurements in	idicate: (place a ch	eck by all that apply.)
		A. that the streamed	is two or more feet	below the bottom of pier footings which are supported on piles?
		B. scour below the bo	ottom of spread for	ptings?
		C. scour below the be	ottom of high abutr	nent footings?
		D. that the streambed	d has scoured five	feet or more below the original streambed elevation at pier bents?

10.

Notes:

- Streambed sounding data is to be documented.

- Per MnDOT Bridge Inspection Manual Section 2.2.5, at bridges that require x-sections, take channel x-sections, along the upstream and/or downstream face of the bridge.

- If "Yes" is the answer to any items on the checklist, notify the Program Administrator for further instructions.

Comments:

Completed On By

Scour POA

Bridge No.: 62079

Scour POA

1. Is POA on File?

2. Date of most recent POA:

3. Here is a link to MnDOT's Bridge Scour website for other resources:

- <u>http://www.dot.state.mn.us/bridge/hydraulics/scour.html</u>
- The Scour POA should be kept in the bridge file and/or uploaded to SIMS using the "Inspection Files" tab.

Implementation

Scour POAs are required to be implemented by FHWA.

1. Is this POA being implemented?

Channel Section

	<u>Upstream</u>		<u>[</u>	Downstream	
Custom Label	Location	Elevation	Custom Label	Location	Elevation

Distance Measured From: Elev. of Ref. Pt: Depth to Water Surface: WS Elev: Vertical Datum: Comments:

Distance Measured From: Elev. of Ref. Pt: Depth to Water Surface: WS Elev: Vertical Datum:

Maintenance

Element S	Source Code	Work Code	Description	P/R	Priority	Work Order #	Year Due	Last Viewed	Entered	Start Date	Completed	
-----------	-------------	-----------	-------------	-----	----------	--------------	----------	-------------	---------	------------	-----------	--



BRIDGE STRUCTURAL ASSESSMENT REPORT

PURPOSE:

This report is a structural assessment of the structure and its ability to carry loads based on conditions identified in the attached bridge inspection report. The assessment is only a cursory review intended to provide guidance as to the relative hazards for structural conditions and deficiencies identified. This report is mandatory for all fracture critical bridges and is completed by the MnDOT Bridge Office upon receipt of the 7 Day FC Report; however, it is an OPTIONAL tool for agencies to utilize at their discretion for all other inspection types.

BRIDGE NO.: 62079	BRIDGE OWNER: County Highway Agency					
DATE INSPECTED: 11/12/2015	STRUCTURE TYPE: Prestressed Concrete					
FACILITY CARRIED: CO Road E (CSAH 15	Stringer/Multi-beam or Girder FEATURES INTERSECTED: BNSF RR					
TYPE OF INSPECTION: Image: Check all that apply: Image: Check all that apply: Image: Check all that apply: Image: Check all						
Redundancy: Image: Load Path Image: Structural Image: Structural	ConnectionRivetedType:BoltedWeldedOther:					
 Was a critical finding identified during this inspection or upon structural review? 						
a) If selected " Yes " above, state briefly the finding(s):						
2. If a critical finding was identified, what is the	he current status?					
a) Briefly state actions taken:						
3. Does the condition of any bridge component function? Examples of bridge components						

include elements that are: frozen or immoveable, out-of-plumb or

misaligned, distorted or structurally deformed, excessively

deteriorated, cracked, broken, eroded or scoured.

a) If selected "**Yes**" above, state briefly the component(s) and condition(s):

4.	Does the overall condition of the bridge, or any of its components	☐ Yes	🗌 No
	mentioned in Question 3, suggest the need for detailed structural		
	analysis and/or a revised load rating?		

- a) If selected "**Yes**", state the reason for this recommendation and indicate a proposed timeframe in accordance with State of Minnesota Rule 8810.9500 (Subpart 2):
- 5. Based on the structural assessment of these findings, recommendations include:

Repair/Maintenance	Monitoring Plan
Other	Increased Inspection Frequency

Explain recommended actions:

6. Other comments:

Bridge Office Reviewer