2016 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62002 CP RAIL over CSAH 49(RICE ST)

DISTRICT: Metro COUNTY: Ramsey CITY/TOWNSHIP: Shoreview

STATE: Minnesota

Date of Inspection: 10/13/2016 Equipment Used: Bucket Van

Owner: County Highway Agency

Inspected By: Essler, Brian

Report Written By: Brian Essler

Report Reviewed By: Nicklaus Fischer

Final Report Date: 12/02/2016



Table of Contents

SECTION	PAGE
SI&A	1
STRUCTURE INVENTORY	2
ROUTINE INSPECTION DATA	3
ELEMENTS	6
PICTURES	9

Minnesota Structure Inventory Report

Bridge ID: 62002 over CSAH 49(RICE ST) Date: 12/02/2016 **CP RAIL** INSPECTION **GENERAL ROADWAY** Bridge Match ID (TIS) Userkey 102 Agency Br. No. Unofficial Structurally Deficient N **District** Metro Roadway O/U Key none Maint. Area Crew **Route Sys** Number Unofficial Functionally Obsolete N County 062 - Ramsey **Roadway Name or Description Unofficial Sufficiency Rating** City Shoreview **Routine Inspection Date** 10/13/2016 **Township** Level of Service **Routine Inspection Frequency** 12 Desc. Loc. 1.0 MI N OF JCT TH 694 Inspector Name CO Bridge Roadway Type Sect., Twp., Range 30 - 030N - 22W **Status** A - Open Control Section (TH Only) **Deg** 45 Sec 33.62 Latitude Min 3 Reference Point **NBI CONDITION RATINGS** Longitude Deg 93 **Sec** 22.82 Min 6 Deck **Detour Length** 6 - Satisfactory Condition Custodian 02 - County Highway Agency **Unsound Deck %** Lanes On Under 2 Owner 02 - County Highway Agency Superstructure 7 - Good Condition ADT Year **BMU Agreement** Substructure 6 - Satisfactory Condition ADTT 0 % HCADT n Year Built 1988 Channel N - Not Applicable **Functional Class MN Year Reconstructed** Culvert N - Not Applicable **RDWY DIMENSIONS FHWA Year Reconstructed NBI APPRAISAL RATINGS** SB-WB If Divided **NB-EB MN Temporary Status** Structure Evaluation N Roadway Width ft. ft. **Bridge Plan Location** 1 - CENTRAL **Deck Geometry** Vertical Clearance ft **Date Opened to Traffic Underclearances** Max. Vert. Clear. ft. ft. **On-Off System** 0 - OFF Water Adequacy N - Not Applicable Horizontal Clear. ft. Legislative District 54B Approach Alignment N - Not Applicable Lateral Clearance ft. ft. **ABC Suitable SAFETY FEATURES** Appr. Surface Width ft. **STRUCTURE** Bridge Railing N - NOT REQUIRED **Bridge Roadway Width** ft. Service On 2 - Railroad **GR Transition** N - NOT REQUIRED Median Width On Bridge Service Under 1 - Highway, w/ or w/out ped. Appr. Guardrail 0 - SUBSTANDARD MISC. BRIDGE DATA Main Span Type **GR Termini** N - NOT REQUIRED Structure Flared 0 - No flare 05 - Thru Girder 3 - Steel IN DEPTH INSP. Main Span Detail Parallel Structure N - No parallel structure Y/N Freq Date Appr. Span Type Field Conn. ID Frac. Critical Ν Abutment Foundation 1 - CONC Underwater Ν Appr. Span Detail (Material/Type) 3 - FTG PILE Pinned Asblv. Skew 62 R Pier Foundation N - N/A Spec. Feat. **Culvert Type** (Material/Type) N - N/A WATERWAY **Barrel Length** ft. **Historic Status** 5 - Not eligible Drainage Area (sq. mi.) **Cantilever ID Waterway Opening PAINT** NUMBER OF SPANS Navigation Control N - Not applicable, no waterw Year Painted 1988 APPR: 0 TOTAL: 1 MAIN: 1 **Pier Protection Unsound Paint %** Main Span Length Nav. Clr. (ft.) Vert. ft. Horiz. ft. 145.5 ft Painted Area 32218 sq. ft. Structure Length 161.5 Nav. Vert. Lift Bridge Clear. (ft.) ft Primer Type D - Organic Zinc - 3309 MN Scour Code A - NON WATER' Year Deck Width (Out-to-Out) 24.0 ft. Finish Type **Deck Material** N - Not Applicable **CAPACITY RATINGS Wear Surf Type** N - Not Applicable (applies onl **Design Load** 8 - RAILROAD **BRIDGE SIGNS** Wear Surf Install Year Operating Rating 5 - NRAP 80.0 Posted Load 0 - Not Required Wear Course/Fill Depth 0.00 Inventory Rating 5 - NRAP 80.0 Traffic 0 - Not Required Deck Membrane 0 - None Posting VEH: SEMI: DBL: **Deck Rebars** N - Not Applicable (no deck) Horizontal 0 - Not Required **Rating Date Deck Rebars Install Year** Vertical 0 - Not Required **Minnesota Permit Codes** Structure Area (Out-to-Out) 3876 sa. ft. A: N - N/A Roadway Area (Curb-to-Curb) sq. ft. Sidewalk Width Lt 0.00 ft. Rt 0.00 B: N - N/A ft.

Curb Height

Rail Type

Lt 0.00

Lt NN

ft. Rt 0.00

Rt NN

ft

C: N - N/A

Minnesota Structure Inventory Report

	+GENERAL+	+ R (DADWAY+	+INSPECTION+
A manage Dr. No.				
Agency Br. No. District	Crew 05 Maint. Area	Bridge Match ID (TIS)		Userkey 102 Structurally Deficient N
		Roadway O/U Key		
County	062 - Ramsey	Route Sys	Number	Functionally Obsolete N
City	Shoreview	Road	way Name or Description	Sufficiency Rating -2
Township				Routine Inspection Date 10/13/2016
Desc. Loc.	1.0 MI N OF JCT TH 694	Level of Service		Routine Inspection Frequency 12
Sect., Twp., Range		Roadway Type		Inspector Name Essler, Brian
Latitude	45 • 3 • 33.62 "	Control Section (TH O	nly)	Status A - Open
Longitude	93 ° 6 ' 22.82 "	Reference Point		+NBI CONDITION RATINGS+
Custodian	02 - County Highway Agency	Detour Length	mi.	Deck 6 Unsound
Owner	02 - County Highway Agency	Lanes ON	UNDER 2	Deck 6 Unsound Superstructure 7 Deck %
BMU Agreement		ADI	YEAR	Superstructure
Year Built	1988	HCADT	ADTT %	Substructure 6
MN Year Reconstru	ucted	Functional Class		Channel N
FHWA Year Recon	structed			Culvert N
MN Temporary Sta	tus	+ R D W Y	DIMENSIONS+	+NBI APPRAISAL RATINGS+
Bridge Plan Locati	on 1 - CENTRAL	+ 1 7 7 7 1	DINI LINGTON ST	1
Date Opened to Tra		If Divided	NB-EB SB-WB	Structure Evaluation N
On - Off Syste		Roadway Width	ft. ft.	Deck Geometry N
Legislative District		Vertical Clearance	ft. ft.	Underclearances 6
Potential ABC	2 - N/A	Max. Vert. Clear.	ft. ft.	Waterway Adequacy N
r otomiai ABO	2 14/1	Horizontal Clear.	ft. ft.	Approach Alignment N
+	STRUCTURE+	Lateral Clearance	ft. ft.	
Service On	2 - Railroad	Appr. Surface Width	ft.	+SAFETY FEATURES+
Service Under	1 - Highway, w/ or w/out ped.	Bridge Roadway Widtl	n ft.	Bridge Railing N - NOT REQUIRED
Main Span Type	3 - Steel	Median Width On Brid		GR Transition N - NOT REQUIRED
Main Span Design	05 - Thru Girder		5 -	Appr. Guardrail 0 - SUBSTANDARD
Main Span Detail	oo maa	+MISC.	BRIDGE DATA+	GR Termini N - NOT REQUIRED
Appr. Span Type		Structure Flared 0	- No flare	GK Termini
			No parallel structure	+IN DEPTH INSP.+
Appr. Span Design			- No parallel structure	WAL From Both
Appr. Span Detail	an BIOLIT	Field Conn. ID Abutment 1	- CONC	Y/N Freq Date
Skew	62 RIGHT	Foundation		Frac. Critical N
Culvert Type		(Material/Type)	- FTG PILE	Underwater N
Barrel Length		Pier Foundation	I - N/A	Pinned Asbly. N
Cantilever ID		(Material/Tyne)	I - N/A	Spec. Feat.
			,	+ W A T E R W A Y +
Ni	umber of Spans	Historic Status 5	- Not eligible	
MAIN: 1 AI	PPR: 0 TOTAL:			Drainage Area (sq. mi.)
Main Span Length	145.5 ft.	+	PAINT+	Waterway Opening (sf.)
Structure Length	161.5 ft.			Navigation Control N - Not applicable, no
Deck Width (Out-to	o-Out) 24.0 ft.	Year Painted 19	88	Pier Protection _
Deck Material	N - Not Applicable	Unsound Paint %		Nav. Clr. (ft.) Vert. 0.0 Horiz. 0.0
Wear Surf Type	N - Not Applicable (applies	Painted Area 32	218 sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)
Wear Surf Install Y	ear	Primer Type D	- Organic Zinc - 3309	MN Scour Code A - NON Year
Wear Course/Fill D	epth 0.00 ft.	Finish Type		WITERWIN.
Deck Membrane	0 - None			+CAPACITY RATINGS+
Deck Rebars	N - Not Applicable (no deck)	+BRID	GE SIGNS+	Design Load 8 - RAILROAD
Deck Rebars Instal		15,,,,,	. .	Operating Rating 7 - RAILROAD 80.0
Structure Area (Ou		Posted Load 0 -	Not Required	Inventory Rating 7 - RAILROAD 80.0
•	,		Not Required	Posting VEH: SEMI: DBL:
Roadway Area (Cu Sidowalk Width			- Not Required	Rating Date
Sidewalk Width 5			Not Required Not Required	Overweight Permit Codes
Curb Height	Lt 0.00 ft. Rt 0.00 ft. Lt NN Rt NN	vertical 0.	- Not Nequilet	_
Rail Type				A N - N/A B N - N/A C N - N/A

MINNESOTA BRIDGE INSPECTION REPORT

12/02/2016

BRIDGE 62002	CP RAIL OVE	R CSAH 49(F	RICE ST)			ROUTI	NE INSP	. DATE:	10/13/20 ⁻	16
County: Rams	sey	Loca	ation: 1.0 MI	N OF JCT TH 694	4	Length:	1	61.5 ft.		
City: Shore	eview	Rout	te:	Ref. Pt.:		Deck Wid	th:	24.0 ft.		
Township:		Conf	trol Section:			-	ea/ Pct. Ur	-		
Section: 30	Township: 030N R	_				Paint Are	a/ Pct. Uns	and: 3221	8 sq. ft. / %	
Span Type: 3 - St List:	eel 3 - Girder and Floo m	orbeam Lo	ocal Agency Bri	dge Nbr.:		Culvert: Postings:	N/A			
NBI Deck: 6	Super: 7 Sub:	6 Chan: N	N Culv: N							
			Open, Po	sted, Closed: A	- Open					
Annraigal Datings	Approach: N. N	Matamuay N	MN Scou	Code: A - NON	WATERWAY					
Appraisal Ratings	 Approach: N \ Signs - Load Posting: 	Naterway: N	4	Traffic: 0 -	Not Required		official Stru	•		
Required Bridge S		0 - Not Required			Not Required		official Fur official Suf	-		
ELEM						QTY	QTY	QTY	QTY	QTY
	EMENT NAME	ENV R	EPORT TYPE	INSP. DATE	QUANTITY	CS 1	CS 2	CS 3	CS 4	CS 5
07 Painted S	steel Girder or Beam	2	Routine	10/13/2016	322 LF	257	65	0	0	0
			Routine	10/15/2015	322 LF	257	65	0	0	0
52 Painted S	iteel Floorbeam	p weided steel	Routine	's" serve as railing 10/13/2016	1296 LF	1166	130	0	0	0
una Daintad C	taal Elaavbaana		5	10/10/0010	420015	4400	400	0	0	0
.52 Tairited C	nteer i loorbeam	2	Routine	10/15/2015	1296 LF	1166	130	0	0	0
215 Reinforce	[2007-2015] D	iagonal bracing	is in proper alignment in Routine	gnment. 10/13/2016	121 LF	0	121	0	0	N/A
Abutment		_	Routine	10/15/2015	121 LF	0	121	0	0	N/A
	[2013-2015] T [2007-2015] T [2011-2015] W EAST ABUTM [2015] Joint m [2015] modera [2013-2015] 8 [2007-2015] T	- 10' minor crace here are numer he west abut has 4 IENT aterial loose on ate spall on NE of diagonal minor he east abutme	ous moderate sent contains nur horizontal crack north end corner 2' x 3" crack in SE cont has diagonal	spalls at the SW onerous moderate so the entire length	diagonal & veth. e south side.				ent.	
								.5,.50	<u> </u>	
313 Fixed Bea	aring	2	Routine	10/13/2016	2 EA	0	2	0	N/A	N/A
			Routine	10/15/2015	2 EA	0	2	0	N/A	N/A
		Minor paint faild linor deterioration		n is present.						
314 Pot Beari	ng	1	Routine	10/13/2016	4 EA	0	4	0	N/A	N/A
			Routine	10/15/2015	4 EA	0	4	0	N/A	N/A
	[2014-2015] N	Minor paint failulinor deterioration	on with corrosio	n is present. ent. Four expansi	on bearings ch	nanged to p	ot bearings	s in 2011.		

ELEM NBR	ELEMEN	T NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
315	Disk Bearing		1	Routine	10/13/2016	4 EA	0	4	0	N/A	N/A
				Routine	10/15/2015	4 EA	0	4	0	N/A	N/A
			nor deteri	nt failure loration with corrosion esent. Four expansion		jed to disk bear	ings in 20°	11.			
387	Reinforced Con	crete Wingwall	1	Routine	10/13/2016	4 EA	0	4	0	0	N/A
				Routine	10/15/2015	4 EA	0	4	0	0	N/A
		[2013-2015] 14 [2004-2015] Th [2003-2015] SV [2011-2015] SV [2003-2015] SE [2011-2015] NV	' diagonal ere are no V wing ha V wing has W corner I	moderate crack in SW I moderate crack in S umerous minor to mo as minor horizontal, di as occasional moderate minor cracking at the has numerous minor of the last minor cracking at th	W wingwall, nort derate spalls pre agonal & vertica te spalls. e SE corner with cracking with nu	th end esent at all 4 ab I cracking with a some rusting. merous modera	deterioration There is a lite spalls p	on of cork e	expansion jontal crack.		rioration.
401	Steel Ballast Pla (Railroad Bridge		1	Routine	10/13/2016	3875 SF	0	3875	0	0	0
				Routine	10/15/2015	3875 SF	0	3875	0	0	0
964	Critical Finding	[2006-2015] Th floor beam. [2011-2012] Ho Element #30 wa	ere are 5	e than 100 LF of leac 5 ballast hold downs blates are not needed d 2007. Element #401 Routine Routine	that are hanging and could be cu	loose on chain ut off.	s or not bo	olted throug 0 0	h hold dow	n plates an	N/A
		Notos: DO NO	T DELET	E THIS CRITICAL FII	NDING SMADT	FLAC					
		110103. DO 110	1 DELET	E THIS SIGNOALT II	VDIIVO OMIARTI	I LAO.					
982	Approach Guard	drail	2	Routine	10/13/2016	1 EA	0	1	0	N/A	N/A
				Routine	10/15/2015	1 EA	0	1	0	N/A	N/A
		Notes: [2014-2015] minor scrapes on guardrail system [2010-2015] The are no crash attenuators or twisted end treatments present on the guardrail system. Not required as per MNDOT. [2007-2015] The south end of the east guardrail is buried. The north end of the west guardrail is exposed. [2015] guardrail is 8' behind curb.									
985	Slopes & Slope	Protection	2	Routine	10/13/2016	1 EA	0	1	0	N/A	N/A
	, ,			Routine	10/15/2015	1 EA	0	1	0	N/A	N/A
				re is moderate erosiongwall contains mode			ngside the	wingwall.			

General Notes: [2016] Bridge safety inspection was completed by Dan Bodelson & Brian Essler on 10/13/2016

[2015] Bridge safety inspection was completed by Dan Bodelson & Brian Essler on 10/15/2015

[2014] Bridge safety inspection was completed by Dan Bodelson & Brian Essler on 10/13/2014

[2013] Bridge safety inspection was completed by Dan Bodelson & Brian Essler on 9/26/2013

[2012] Bridge safety inspection was completed by B. Wieman on 10/24/2012.

2011 Bridge safety inspection was completed by B. Wieman on 10/28/2011. All lateral bracing is in place. No sign of collision damage 2011.

2010 Bridge safety inspection was completed by B. Wieman & D. Bodelson 11/30/2010.

MN/DOT compliance review team inspected bridge 10/19/2010 along with Ramsey County.

2009 Bridge safety inspection was completed by B. Wieman 10/26/2009.

2007 Bridge safety inspection was completed by B. Wieman and B. Essler 8/23/2007.

2006 Bridge safety inspection was completed by Bret Wieman 10/31/2006.

Bridge # 62002 Built in 1988. Year 1998 turn back to Ramsey County.

BRIDGE 62002 CP RAIL OVER CSAH 49(RICE ST) ELEM REPORT TYPE INSP. DATE QUANTITY QTY Q										
	MENT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY					
58. Deck	NBI: Moderate	paint failure a	& surface corrosion							
36A. Brdg Railings	NBI: CP Rail ov	er CSAH # 4	9 - no bridge railing							
36B. Transitions	NBI: CP Rail ov	er CSAH # 4	9 - no bridge railing							
36C. Appr Guardrai	NBI: Guardrail i	s 8' behind c	urb							
36D. Appr Gua Termina	rdrail CP Rail ov NBI:	er CSAH # 4	9							
59. Superstructure	NBI: Steel deck	& beams ha	ve minor corrosion							
60. Substructure	NBI: Abutments	@ wing wal	ls have minor to mod	derate cracks & s	palls.					
61. Channe	NBI: CP Rail ov	er CSAH # 4	9							
62. Culver	NBI: CP Rail ov	er CSAH # 4	9							
71. Waterway Adec	NBI: CP Rail ov	er CSAH # 4	9							
72. Appr Roa Alignmen	dway CP Rail ov : NBI:	er CSAH # 4	9							

Brian Essler Nicklaus Fischer
Inspector's Signature Reviewer's Signature

Inventory Notes:

MINNESOTA BRIDGE INSPECTION REPORT

12/02/2016

Inspector: CO Bridge

BRIDGE 62002 CP RAIL OVER CSAH 49(RICE ST)

County: Ramsey Location: 1.0 MI N OF JCT TH 694 Length: 161.5 ft. City: Shoreview Route: Ref. Pt.: Deck Width: 24.0 ft. Township: Control Section: Rdwy. Area/ Pct. Unsnd: sq. ft. / % Section: 30 Township: 030N Range: 22W Maint. Area: Paint Area/ Pct. Unsnd: 32218 sq. ft. / % Span Type: 3 - Steel 3 - Girder and Floorbeam Local Agency Bridge Nbr.: Culvert: N/A System List: Postings: NBI Deck: 6 Super: 7 Sub: 6 Ν Culv: N Chan: Open, Posted, Closed: A - Open MN Scour Code: A - NON WATERWAY Appraisal Ratings - Approach: Waterway: Ν **Unofficial Structurally Deficient** Ν Required Bridge Signs - Load Posting: 0 - Not Required Traffic: 0 - Not Required Unofficial Functionally Obsolete Ν Horizntal: 0 - Not Required Vertical: 0 - Not Required **Unofficial Sufficiency Rating** Ν **ELEM** QTY QTY QTY QTY **NBR ELEMENT NAME** REPORT TYPE INSP. DATE **QUANTITY** CS₁ CS₂ CS₃ CS₄ Steel Deck Corrugated/Orthotropic/Etc. 3876 SF 3798 0 78 0 30 Routine 10/13/2016 3876 SF 0 78 0 Migrated Values 3798 Notes: [2014-2016] More than 100 LF of leaching through the bottom of Ballast Plate. [2006-2016] There are 55 ballast hold downs that are hanging loose on chains or not bolted through hold down plates and the floor beam. [2011-2012] Hold down plates are not needed and could be cut off. Element #30 was deleted 2007. Element #401 was created. RR tracks are still active. 510 - Wearing Surfaces 0 0 0 Routine 10/13/2016 3876 SF 3876 0 0 Migrated Values 3876 SF 3876 0 Notes: [2016] Steel ballast plates and ballast. 107 Steel Open Girder/Beam 10/13/2016 311 LF 246 65 0 0 Routine Migrated Values 311 LF 246 65 0 0 Notes: [2016] South girder 150 LF north girder 161 LF [2013-2016] Approximately 35% of the north girder contains peeling of paint and rusting. Approximately 5% of the south girder contains some minor peeling of paint. [2004-2009] No surface rust. Painted organic zinc rich in 1988. [2004-2015] Graffiti is on the inside and outside of both steel girders. Two 169" deep welded steel "Through Girders" serve as railing. 515 - Steel Protective Coating Routine 10/13/2016 9174 SF 5504 3670 0 0 Migrated Values 9174 SF 5504 3670 0 0 Notes: [2016] 2 through girders at 150 LF and 161 LF with 150" web and a 18" flange (150' + 161') (2 X 150" + 3 X 18") [2013-2016] Approximately 35% of the north girder contains peeling of paint and rusting. Approximately 5% of the south girder contains some minor peeling of paint. [2004-2009] No surface rust. Painted organic zinc rich in 1988. [2016] Migrator used inventory quantity of 32,218 SF and estimated the condition states. Steel Floor Beam 1296 LF 1166 130 0 0 152 Routine 10/13/2016 1296 LF 1166 130 0 0 Migrated Values Notes: [2009-2016] 10% of floor beams contain minor peeling of paint system and corrosion. [2007-2016] Diagonal bracing is in proper alignment. [2003-2007] 5% of floor beams contain minor peeling of paint system and corrosion in early signs of distress. 515 - Steel Protective Coating Routine 10/13/2016 10704 SF 10598 106 0 0 0 0 Migrated Values 10704 SF 10598 106 Notes: [2016] 54 W24 X 146 floor beams 24" long. 54 X 24' X (2 X 24.7" + 3 X 12.9") = 10704 SF [2009-2016] 10% of floor beams contain minor peeling of paint system and corrosion. [2003-2007] 5% of floor beams contain minor peeling of paint system and corrosion in early signs of distress.

BRIDGE 62002 CP RAIL OVER CSAH 49(RICE ST)

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4			
215	Reinforced Concrete Abutment	Routine	10/13/2016	160 LF	29	131	0	0			
		Migrated Values		160 LF	29	131	0	0			
	WEST ABUTMENT [2016] West abut has 6 horizontal crack [2013-2016] 2 - 10' minor crack's in NW [2013-2016] There are numerous mode [2007-2016] The west abutment contair [2011-2015] West abut has 4 horizonta EAST ABUTMENT [2015-2016] Joint material loose on nor [2015-2016] Moderate spall on NE corr [2013-2016] 8' diagonal minor crack in [2007-2016] The east abutment has daid [2003-2016] East abutment has 4- 16' r Wingwall notes: [2015-2016] Moderate [2014-2016] 2 - 5' minor horizontal crack [2013-2016] 8' diagonal moderate crack [2013-2016] 14' diagonal moderate crack [2004-2016] There are numerous minor [2003-2016] SW wing has minor horizon	corner erate spalls at the SW as numerous moderate loracks the entire lend then are 2' x 3" SE corner agonal cracking near the moderate vertical cracks in SE corner in SW wingwall, nor to moderate spalls per to moderate spalls pe	the diagonal & vegth. The south side. The south numerous The modern of the end The end The end The end The end The end at all 4 all	us minor horizoi outment wings v	ntal crackir	ng present.	te deteriora	ition.			
	[2011-2016] SW wing has occasional m [2003-2016] SE wing has minor crackin [2011-2016] NW corner has numerous [2003-2016] The NE WW has minor cra	noderate spalls. Ig at the SE corner wi minor cracking with n	th some rusting. umerous moder	There is a 14' l ate spalls prese	norizontal (crack.					
13	Fixed Bearing	Routine	10/13/2016	2 EA	0	2	0	0			
	Migrated Values 2 EA 0 2 0 0 Notes: [2015-2016] Minor paint failure [2009-2016] Minor deterioration with corrosion is present.										
14	Pot Bearing	Routine	10/13/2016	4 EA	0	4	0	0			
		Migrated Values		4 EA	0	4	0	0			
	Notes: [2015-2016] Minor paint failure [2014-2016] Minor deterioration with corrosion is present. Minor deterioration with some corrosion present. Four expansion bearings changed to pot bearings in 2011.										
15	Disk Bearing	Routine	10/13/2016	4 EA	0	4	0	0			
		Migrated Values		4 EA	0	4	0	0			
	Notes: [2015-2016] Minor paint failure [2014-2016] Minor deterioration with corrosion is present. Minor deterioration is present. Four expansion bearings changed to disk bearings in 2011.										
00	Critical Deficiencies or Safety Hazards	Routine	10/13/2016	1 EA	1	0	0	0			
	•	Migrated Values		1 EA	1	0	0	0			
	Notes: NO CRITICAL FINDINGS OBS	•	E LAST INSPEC	CTION.							
92	Slopes & Slope Protection	Routine	10/13/2016	1 EA	0	1	0	0			
-	,	Migrated Values	. 5, 15,2010	1 EA	0	1	0	0			
	Notes: [1992-2016] There is moderate erosion at the SE slope. [2003-2016] The NW wingwall contains moderate erosion and settlement alongside the wingwall.										
393	Guardrail	Routine	10/13/2016	1 EA	0	1	0	0			
				1 EA	0	1	0	0			
	Migrated Values 1 EA 0 1 0 0 Notes: [2014-2016] minor scrapes on guardrail system [2010-2016] The are no crash attenuators or twisted end treatments present on the guardrail system. Not required as per MNDOT. [2007-2016] The south end of the east guardrail is buried. The north end of the west guardrail is exposed. [2016] NW guardrail is buried in the slope. [2015] guardrail is 8' behind curb.										

BRIDGE 62002 CP RAIL OVER CSAH 49(RICE ST)

Inspector's Signature

ELEM NBR	ELEM	IENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
894	Deck & Approach Drainage		Routine	10/13/2016	1 EA	1	0	0	0
			Migrated Values		1 EA	1	0	0	0
		drainage is function oes south along bot	ng adequately. h curb line to a spillway						
900	Protected Specie	s	Routine	10/13/2016	1 EA	1	0	0	0
			Migrated Values		1 EA	1	0	0	0
	Notes: [2016]	No protected specie	s living found on this struc	cture.					
		[2015] Bridge safe [2014] Bridge safe [2013] Bridge safe [2012] Bridge safety damage 2011. 2010 Bridge safety MN/DOT complian 2009 Bridge safety 2007 Bridge safety 2006 Bridge safety	ty inspection was completed ty inspection was completed ty inspection was completed ty inspection was completed to	ted by Dan Bode ted by Dan Bode ted by Dan Bode ted by B. Wieman ed by B. Wieman bridge 10/19/20 ed by B. Wieman ed by Bret Wieman ed by Bret Wieman	Ison & Brian Es Ison & Brian Es Ison & Brian Es n on 10/24/2012 on 10/28/2011. & D. Bodelson 10 along with R 10/26/2009. and B. Essler 8 an 10/31/2006.	sler on 10 sler on 10 sler on 9/2 2. All lateral 11/30/201 camsey Co	/15/2015 /13/2014 26/2013 bracing is 0.	in place. N	o sign of collisior
	58. Deck NBI:	Moderate paint fail	ure & surface corrosion						
36A. E	Brdg Railings NBI:	CP Rail over CSAI	H # 49 - no bridge railing						
36E	3. Transitions NBI:	CP Rail over CSAI	H # 49 - no bridge railing						
36C. Ap	opr Guardrail NBI:	Guardrail is 8' beh	ind curb						
36	D. Appr Guardrail Terminal NBI:	CP Rail over CSAI	H # 49						
59. St	perstructure NBI:	Steel deck & beam	ns have minor corrosion						
60.	Substructure NBI:	Abutments @ wing	walls have minor to mod	lerate cracks & s	palls.				
	61. Channel NBI:	CP Rail over CSAI	H # 49						
	62. Culvert NBI:	CP Rail over CSAI	H # 49						
71. Wa	terway Adeq NBI:	CP Rail over CSA	H # 49						
7	2. Appr Roadway Alignment NBI:	CP Rail over CSAI	H # 49						
	Inventory Notes:								
		Brian Essler		_		Nic	klaus Fis	cher	

Reviewer's Signature

Pictures



Photo 1 - 62002 No side

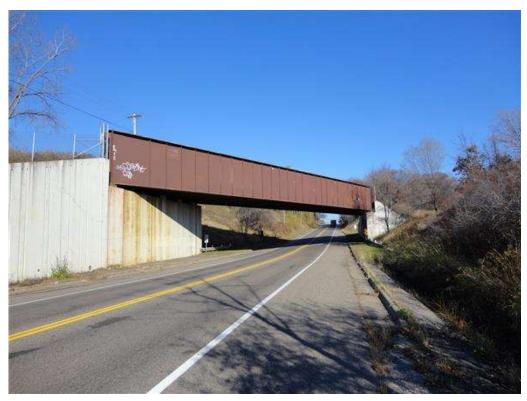


Photo 2 - 62002 So side

Pictures



Photo 3 - 62002 Top

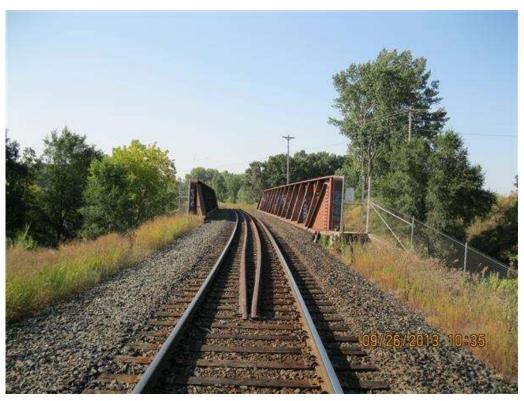


Photo 4 - tracks WB

Pictures



Photo 5 - west abutment