2016 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62008 CSAH 49(RICE ST) over BNSF RR

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

STATE: Minnesota

DISTRICT: Metro

Date of Inspection: 09/15/2016 Equipment Used:

Owner: County Highway Agency

Inspected By: Engel, Michael; Grau, Joe; Reimer, Dan

Report Written By: Dan Reimer Report Reviewed By: Glenn Pagel Final Report Date: 12/06/2016



Table of Contents

SECTION	PAG
COVER	1
STRUCTURE INVENTORY	2
ELEMENTS	3
THUMBNAIL PICTURES	7

Minnesota Structure Inventory Report

Bridge ID: 62008 CSAH 49(RICE ST) over BNSF RR

Date: 11/21/2016

-	GENERAL+	+ R O A D W A Y +	+INSPECTION+
Agency Br. No.	Crew	Bridge Match ID (TIS) 0	Userkey 199
District	05 Maint. Area	<i>,</i>	Structurally Deficient N
County	062 - Ramsey		Functionally Obsolete N
City	St Paul	Route Sys 04 - CSAH Number 49 Roadway Name or Description	Sufficiency Rating 69.8
Township	Strau	CSAH 49	Routine Inspection Date 09/15/2016
Desc. Loc.	0.5 MI N OF JCT UNIV AVE	Level of Service 1 - MAINLINE	Routine Inspection Frequency 24
Sect., Twp., Range	36 - 029N - 23W	Roadway Type 2 - 2-way traffic	Inspector Name Reimer, Dan
Latitude	44 • 57 • 46.72 "	Control Section (TH Only)	Status A - Open
Longitude	93 ° 6 ' 22.49 "	Reference Point 000+00.489	
Custodian	02 - County Highway Agency	Detour Length 1.0 mi.	+NBI CONDITION RATINGS+
Owner	02 - County Highway Agency	Lanes ON ⁴ UNDER 0	Deck 7 Unsound 0
BMU Agreement		ADT 15338 YEAR 2008	Superstructure 7 Deck %
Year Built	1976	HCADT ADTT %	Substructure 7
MN Year Reconstru		Functional Class 16 - Urban - Minor Arterial	Channel N
FHWA Year Recons			Culvert N
MN Temporary Stat			+NBI APPRAISAL RATINGS+
Bridge Plan Locatio		+RDWY DIMENSIONS+	TNDI AFERAIJAL KATINGS+
Date Opened to Tra	-	If Divided NB-EB SB-WB	Structure Evaluation 5
On - Off Syster		Roadway Width 52.00 ft. ft.	Deck Geometry 4
Legislative District	65A	Vertical Clearance ft. ft.	Underclearances 4
Potential ABC	2 - N/A	Max. Vert. Clear. ft. ft.	Waterway Adequacy N
T otomiai ABO		Horizontal Clear. 51.9 ft. ft.	Approach Alignment 9
+ 5	STRUCTURE+	Lateral Clearance ft. ft.	+SAFETY FEATURES+
Service On	5 - Highway-pedestrian	Appr. Surface Width 50.0 ft.	+SAFETY FEATURES+
Service Under	2 - Railroad	Bridge Roadway Width 52.0 ft.	Bridge Railing 1 - MEETS STANDARDS
Main Span Type	5 - Prestress or Precast	Median Width On Bridge ft.	GR Transition N - NOT REQUIRED
Main Span Design	01 - Beam Span		Appr. Guardrail N - NOT REQUIRED
Main Span Detail		+MISC. BRIDGE DATA+	GR Termini N - NOT REQUIRED
Appr. Span Type		Structure Flared 0 - No flare	+IN DEPTH INSP.+
Appr. Span Design		Parallel Structure N - No parallel structure	
Appr. Span Detail		Field Conn. ID	Y/N Freq Date
Skew	0	Abutment 1 - CONC	Frac. Critical N
Culvert Type		Foundation 3 - FTG PILE (Material/Type)	Underwater N
Barrel Length		Pier Foundation 1 - CONC	Pinned Asbly. N
Cantilever ID		(Material/Type) 3 - FTG PILE	Spec. Feat.
		3-1 IGHLE	+ W A T E R W A Y +
Nu	mber of Spans	Historic Status 5 - Not eligible	
MAIN: 4 AP	PR: 0 TOTAL:		Drainage Area (sq. mi.)
Main Span Length	82.0 ft.	+ P A I N T +	Waterway Opening (sf.)
Structure Length	295.2 ft.		Navigation Control N - Not applicable, no
Deck Width (Out-to-	,	Year Painted	Pier Protection
Deck Material	1 - Concrete Cast-in-Place	Unsound Paint %	Nav. Clr. (ft.) Vert. 0.0 Horiz. 0.0
Wear Surf Type	4 - Low Slump Concrete	Painted Area sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)
Wear Surf Install Ye		Primer Type	MN Scour Code A - NON Year
Wear Course/Fill De	•	Finish Type	+CAPACITY RATINGS+
Deck Membrane	0 - None		Design Load 5 - HS 20
Deck Rebars	2 - Galvanized Reinforcing	+BRIDGE SIGNS+	•
Deck Rebars Install		Perford Lond	
Structure Area (Out	<i>,</i>	Posted Load 0 - Not Required	Inventory Rating 2 - HS TRUCK 14.6 Posting VEH: SEMI: DBL:
Roadway Area (Cur	, , ,	Traffic 0 - Not Required	•
Sidewalk Width 5		Horizontal 0 - Not Required	Rating Date 03/31/2015
Curb Height	Lt 0.83 ft. Rt 0.83 ft.	Vertical N - Not Applicable	Overweight Permit Codes
Rail Type	Lt 21 Rt 21		A 1 - No B 1 - No C 1 - No Restriction Restriction Restriction

MINNESOTA BRIDGE INSPECTION REPORT

12/06/2016

Inspector: CO Bridge

BRIDGE 62008 CSAH 49(RICE ST) OVER BNSF RR

City: Townshi Section:	St Paul	Route: 04 - CSAH			Length:					
Fownshi Section:	in [.]		49 Ref. Pt.: 0	00+00.489	Deck Wid	th:	66.3 ft.			
		Rdwy. Area/ Pct. Unsnd: 15349 sq. ft. / 0% Paint Area/ Pct. Unsnd: sq. ft. / %								
·	36 Township: 029N Range: 2									
span Ty	pe: 5 - Prestressed Concrete 2 -	Culvert:	N/A	·						
_ist:	Stringer/Multi-beam or Girder	0,	0		Postings:					
NBI Dec	k: 7 Super: 7 Sub: 7 C	nan: N Culv: N			0					
	·	Open, Pos	sted, Closed: A	- Open						
		• •	Code: A - NON	•						
Appraisa	al Ratings - Approach: 9 Waterwa				Uno	official Stru	ucturally De	eficient	Ν	
Require	d Bridge Signs - Load Posting: 0 - Not F	Required	Traffic: 0 - I	Not Required	Und	official Fur	nctionally O	bsolete	Ν	
	Horizntal: 0 - Not F	Required	Vertical: N -	Not Applicable	Und	official Suf	ficiency Ra	iting	69.8	
ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4		
		-	_							
2	Reinforced Concrete Deck	Routine	09/15/2016	19572 SF	18392	826	354	0		
		Migrated Values		19572 SF	18392	826	354	0		
	Notes: [2004] UNDERSIDE OF DEC			E LEACHING C	RACKS.					
	THERE IS LIGHT SCALING BELOW West gutter line under deck area of c			2012						
	Significant water / salt saturation with									
	510 - Wearing Surfaces	Routine	09/15/2016	15349 SF	14973	375	1	0		
	-		00,10,2010	15349 SF	14973	375	1	0		
	Natao 4 Janas Daak has salverized	Migrated Values		15549 51	14975	575	I	0		
	Notes: 4 Lanes. Deck has galvanized	rebar.								
	Transverse cracks. 2010-14									
	Sealed 2013 4500 LF / 12 = 375 SF of sealed cra	cks. 2016								
	1 SF spall - ½" to 1½" deep. NB left l									
00	Prestressed Concrete Open	Doutino	00/15/2016	2359 LF	2359	0	0	0		
	Girder/Beam	Routine	09/15/2016	2333 EI	2009	0	0	0		
		Migrated Values		2359 LF	2359	0	0	0		
	Notes: 45" DEEP PRESTRESSED E	BEAMS.								
205	Reinforced Concrete Column	Routine	09/15/2016	12 EA	12	0	0	0		
		Migrated Values		12 EA	12	0	0	0		
15	Reinforced Concrete Abutment	Routine	09/15/2016	153 LF	147	6	0	0		
		Migrated Values		153 LF	147	6	0	0		
	Notes: [2001] FACE OF HIGH WALL ABUTMENTS HAVE 100 LF OF VERTICAL CRACKS. SOUTH ABUT PARAPET HAS 7 SF SPALL - 1" DEEP. 2004-16 Vertical cracking present at the abuts. 2012-16									
	N. end has a moderate width vertical [1985/2001] EAST WINGWALLS HA JT HAS OPENED UP 1". [1983] SW SW WINGWALL HAS RUST STAINS	VE SEPARATED FROI WINGWALL HAS 8 LF	M ABUTMENTS: HORIZONTAL C		PENED UP	2" NE				
234	Reinforced Concrete Pier Cap	Routine	09/15/2016	200 LF	200	0	0	0		
		Migrated Values	00,10,2010	200 LF	200	0	0	0		
		myrated values			_00	v	v	5		
	Strip Soal Expansion Joint		00/45/0046	121 -	124	0	0	0		
600	Strip Seal Expansion Joint	Routine Migrated Values	09/15/2016	131 LF 131 LF	131 131	0 0	0 0	0		

BRIDGE 62008 CSAH 49(RICE ST) OVER BNSF RR

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4		
301	Pourable Joint Seal	Routine	09/15/2016	66 LF	36	30	0	0		
	Notes: New bituminous over lay on the S Poured joints only at the N. side approac		016	66 LF	36	30	0	0		
311	Movable Bearing	Routine	09/15/2016	52 EA	52	0	0	0		
	Notes: Changed quantity to 52 each. 2	Migrated Values		52 EA	52	0	0	0		
313	Fixed Bearing	Routine	09/15/2016	16 EA 16 EA	16 16	0 0	0 0	0 0		
	Notes: Changed quantity to 16 each. Fixed bearings located at pier 2. 2014	Migrated Values 2014		10 LA	10	0	0	0		
21	Reinforced Concrete Approach Slab	Routine	09/15/2016	2000 SF	1997	0	3	0		
		Migrated Values		2000 SF	1997	0	3	0		
	Notes: South approach has a new bitum Minor to moderate deterioration. 2012-14 Bituminous wearing surface on the N. en)16						
330	Metal Bridge Railing	Routine	09/15/2016	1936 LF	1934	2	0	0		
		Migrated Values		1936 LF	1934	2	0	0		
	Notes: [1998] FENCE POST BENT AT S Finish coat failing. Rust is present. 201		W of tracks. 2	2010						
	515 - Steel Protective Coating	Routine	09/15/2016	9680 SF	0	0	1936	7744		
	Notes: Moderate finish coat deterioration	Migrated Values and galvanized svs	stem is failing.	9680 SF 2016	0	0	1936	7744		
31	Reinforced Concrete Bridge Railing	Routine	09/15/2016	1936 LF	1936	0	0	0		
		Migrated Values		1936 LF	1936	0	0	0		
	Notes: [1998] FENCE POST BENT AT SW CORNER and NW of tracks. 2010 [2002] Vertical cracks in railing.									
	Surface finish is extremely weathered.	2004								
	Painted parapets. 2010 Insignificant vertical cracks are present.	2016								
00	Critical Deficiencies or Safety Hazards	Routine	09/15/2016	1 EA	1	0	0	0		
		Migrated Values		1 EA	1	0	0	0		
	Notes: NO CRITICAL FINDINGS OBSE	RVED DURING TH	E LAST INSPEC	TION. 2016						
10	Concrete Decks - Cracking & Sealing	Routine	09/15/2016	4500 LF	4500	0	0	0		
		Migrated Values		4500 LF	4500	0	0	0		
	Notes: [1994/95] OVERLAY HAS 4,000 Numerous cracks in overlay, some need Many cracks are not completely sealed. Cracks of moderate size. 2012 Cracks sealed 2013. Looks OK. 2014 Unsealed cracks are present. Less than	additional sealing. 04-12	01.	500 LF OF LON	GITUDINA	L CRACK	5.			
855	Secondary Members (Superstructure)	Routine	09/15/2016	1 EA	1	0	0	0		
	· · · /	Migrated Values		1 EA	1	0	0	0		
	Notes: Consists of concrete diaphragms	. 2016								
56	Secondary Members (Substructure)	Routine	09/15/2016	1 EA	1	0	0	0		
		Migrated Values		1 EA	1	0	0	0		
	Notes: Consists of concrete crash struts	. 2016								

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ELEM NBR	ELEN	IENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
883	Concrete Shear (Cracking	Routine Migrated Values	09/15/2016	1 EA 1 EA	1 1	0 0	0 0	0 0	
	Notes: Use thi prestressed co		he presence of shear c	acking on concre	ete elements. P	ay particul	ar attentior	n to the cor	icrete pier ca	ps and
891	Other Bridge Sig	ning	Routine	09/15/2016	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: All requ	uired signs are presen	t. 2016							
892	Slopes & Slope F	Protection	Routine	09/15/2016	1 EA	1	0	0	0	
	Notes: Use thi	is element to rate the c	Migrated Values condition of slopes and	slope protection	1 EA	1	0	0	0	
			-							
893	Guardrail		Routine Migrated Values	09/15/2016	1 EA 1 EA	1 1	0 0	0 0	0 0	
		speed is NOT over 40 se SE end has impact o) MPH. 2014			ľ	U	0	0	
394	Deck & Approach	n Drainage	Routine	09/15/2016	1 EA	1	0	0	0	
			Migrated Values		1 EA	1	0	0	0	
	Notes: Use thi	is element to rate the c	condition, function, and	adequacy of the	drainage syster	n.				
395	Sidewalk, Curb, &	& Median	Routine	09/15/2016	1 EA	0	0	1	0	
			Migrated Values		1 EA	0	0	1	0	
			-							
		ous minor transverse o walks have settled - 1'	cracks. 2004-16							
		walks have settled - 1'	cracks. 2004-16	09/15/2016	1 EA	1	0	0	0	
899	The approach Miscellaneous Ite	walks have settled - 1' ems	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values		1 EA	1	0 0	0 0	0 0	
	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI	walks have settled - 1 ems ATED WATER MAIN I PE SUPPORT AT SE	racks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDU	T IN 2nd BAY FI	1 EA ROM EAST. [19	1 992]	0	0	0	
899	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI	walks have settled - 1 ms ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4	racks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDU CORNER IS LOOSE.	T IN 2nd BAY FI	1 EA ROM EAST. [19	1 992]	0	0	0	
	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s	racks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDU CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R	0 EMOVED).	0	
	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s	racks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDU CORNER IS LOOSE. , ONE SPUR LINE IN S Routine	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
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900	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4. s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDU CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976.	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
900 36A. E	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes: 58. Deck NBI: Brdg Railings NBI:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4. s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDUC CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976. racking present 2012	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
900 36A. E 36E	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes: 58. Deck NBI: Brdg Railings NBI:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU Minor to moderate cr	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDUC CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976. racking present 2012	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
36A. E 366. 8	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes: 58. Deck NBI: Brdg Railings NBI: 3. Transitions NBI:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU Minor to moderate cr	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDUC CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976. racking present 2012	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
36A. F 36E 36C. Aj 36	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes: 58. Deck NBI: 58. Deck NBI: Brdg Railings NBI: 3. Transitions NBI: opr Guardrail NBI:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU Minor to moderate cr	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDUC CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976. racking present 2012	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
36A. F 36A. F 36E 36C. Aj 36 59. Si	The approach Miscellaneous Ite Notes: INSUL 1st WATER PI 2 ACTIVE RR Protected Specie Notes: Use thi None noticed. General Notes: 58. Deck NBI: 58. Deck NBI: 3. Transitions NBI: opr Guardrail NBI: 50. Appr Guardrail Terminal NBI:	walks have settled - 1' ems ATED WATER MAIN I PE SUPPORT AT SE TRACKS IN SPAN #4 s is element to track the 2016 Bridge #62008 BRIDGE CONSTRU Minor to moderate cr	cracks. 2004-16 ' to 2". 2016 Routine Migrated Values N EAST BAY, CONDUC CORNER IS LOOSE. , ONE SPUR LINE IN S Routine Migrated Values presence of protected s CTED IN 1976. racking present 2012	T IN 2nd BAY FI PAN #3 (TRACK 09/15/2016	1 EA ROM EAST. [19 KS IN SPANS # 1 EA 1 EA	1 992] 1 & 2 HAV	0 E BEEN R 0	0 EMOVED). 0	0 [1996] 0	
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CSAH 49(RICE ST) OVER BNSF RR **BRIDGE 62008**

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
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72. Appr Roadway Alignment NBI:

Inventory Notes:

Dan Reimer

Inspector's Signature

Glenn Pagel Reviewer's Signature



1. bit. approach 022.JPG



6. 5-4-2012 070.jpg



11. underdeck gutterline west_9.jpg



16. NW end block.JPG



2. 5-4-2012 002.jpg



7. 5-4-2012 073.jpg



12. underdeck gutterline west_10.jpg



JPG 17. SE end.JPG



3. 5-4-2012 061.jpg



8. 5-4-2012 074.jpg



13. NE end.JPG



18. SW end (1).JPG



4. 5-4-2012 065.jpg



9. 5-4-2012 077.jpg



14. NB left lane towards the N end.JPG



19. SW end (2).JPG



5. 5-4-2012 069.jpg



10. 5-4-2012 107.jpg



15. N Abutment towards the E.JPG



20. Under W sidewalk near the N end.JPG



21. Underdeck, mid span facing S.JPG