2015 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 62567 CSAH 58(EDGERTON) over PHALEN BL. BUSH; UP RR

DISTRICT: Metro COUNTY: Ramsey CITY/TOWNSHIP: St Paul

Date(s) of Inspection: 10/07/2015

Equipment Used:

Owner: County Highway Agency

Inspected By: Engel, Michael; Lee, Joseph; Schaaf, Jerry

Report Written By: Joseph Lee Report Reviewed By: Glenn Pagel Final Report Date: 12/30/2015

MnDOT Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128



MnDOT Structure Inventory Report

over PHALEN BL. BUSH; UP RR Bridge ID: 62567 CSAH 58(EDGERTON) Date: 12/30/2015 **GENERAL** INSPECTION **ROADWAY** Bridge Match ID (TIS) 1 Userkey 199 Agency Br. No. **District** Metro Roadway O/U Key Route On Structure Unofficial Structurally Deficient N Maint. Area Crew Route Sys 04 - CSAH Number 58 Unofficial Functionally Obsolete N County 062 - Ramsey **Roadway Name or Description Unofficial Sufficiency Rating** 93.0 City St Paul **Routine Inspection Date** 10/07/2015 CSAH 58 **Township** Level of Service 1 - MAINLINE **Routine Inspection Frequency** 24 Desc. Loc. 0.2 MI N OF JCT PAYNE AV Inspector Name City of St. Paul Roadway Type 2 - 2-way traffic - 029N - 22W Sect., Twp., Range 29 **Status** A - Open Control Section (TH Only) Deg 44 **Sec** 54.59 Latitude Min 57 Reference Point 000+00.800 **NBI CONDITION RATINGS** Longitude Deg 93 Min 4 Sec 33.92 Deck **Detour Length** 7 - Good Condition 1.0 Custodian 02 - County Highway Agency **Unsound Deck %** Lanes **On** 2 Under 2 Owner 02 - County Highway Agency Superstructure 8 - Very Good Condition **ADT** 4950 Year 2005 **BMU Agreement** Substructure 9 - Excellent Condition HCADT 0 ADTT 0 Year Built 1998 Channel N - Not Applicable Functional Class 16 - Urban - Minor Arterial **MN Year Reconstructed** Culvert N - Not Applicable **RDWY DIMENSIONS FHWA Year Reconstructed NBI APPRAISAL RATINGS** SR-WR If Divided NB-EB **MN Temporary Status** Structure Evaluation 6 Roadway Width 40.00 ft. ft. Bridge Plan Location 4 - MUNICIPAL **Deck Geometry** 6 Vertical Clearance ft. **Date Opened to Traffic Underclearances** Max. Vert. Clear. ft. ft. **On-Off System** 1 - ON Water Adequacy N - Not Applicable Horizontal Clear. 39.9 ft. Legislative District 66A Approach Alignment 9 - Superior to present desir Lateral Clearance ft. ft. **STRUCTURE SAFETY FEATURES** Appr. Surface Width 40.0 ft. Service On 5 - Highway-pedestrian **Bridge Railing** 1 - MEETS STANDARDS **Bridge Roadway Width** 40 O ft. Service Under 4 - Highway - railroad **GR Transition** 1 - MEETS STANDARDS Median Width On Bridge Main Span Type Appr. Guardrail 1 - MEETS STANDARDS MISC. BRIDGE DATA 5 - Prestress or Precast 01 - Beam Span **GR Termini** N - NOT REQUIRED Structure Flared 0 - No flare Main Span Detail IN DEPTH INSP. Parallel Structure N - No parallel structure Appr. Span Type Y/N Freq Date Field Conn. ID Frac. Critical Abutment Foundation 8 - CIP Appr. Span Detail Underwater (Material/Type) 3 - FTG PILE Skew Pinned Asblv. **Culvert Type** Pier Foundation 8 - CIP Spec. Feat. **Barrel Length** ft (Material/Type) 3 - FTG PILE WATERWAY **Cantilever ID Historic Status** 5 - Not eligible Drainage Area (sq. mi.) NUMBER OF SPANS **Waterway Opening PAINT** APPR: 0 MAIN: 6 Navigation Control N - Not applicable, no waterw TOTAL: 6 Year Painted **Pier Protection** Main Span Length 68.0 ft. **Unsound Paint %** Nav. Clr. (ft.) Vert. ft. Horiz. ft. Structure Length 4129 ft Painted Area 0 sq. ft. Nav. Vert. Lift Bridge Clear. (ft.) Deck Width (Out-to-Out) 58.3 ft. **Primer Type** MN Scour Code A - NON WATER' Year **Deck Material** 1 - Concrete Cast-in-Place Finish Type **CAPACITY RATINGS** 1 - Monolithic Concrete (concu **Wear Surf Type** Wear Surf Install Year **Design Load** 9 - HS 25 (OR GREATER) **BRIDGE SIGNS** Wear Course/Fill Depth 0.17 Operating Rating 1 - LF (LF) HS 25.6 Posted Load 0 - Not Required Deck Membrane 0 - None Inventory Rating 1 - LF (LF) HS 15.3 Traffic 0 - Not Required **Deck Rebars** 1 - Epoxy Coated Reinforcing Posting VEH: DBL: Horizontal 0 - Not Required Deck Rebars Install Year 1998 Rating Date 03/31/2015 Structure Area (Out-to-Out) sq. ft. Vertical N - Not Applicable **MnDOT Permit Codes** Roadway Area (Curb-to-Curb) 16512 sq. ft. A: N - N/A Sidewalk Width Lt 8.00 ft. Rt 8.00 ft.

Lt 0.67

Lt 28

ft. Rt 0.67

Rt 28

ft

Curb Height

Rail Type

B: N - N/A

C: N - N/A

MnDOT BRIDGE INSPECTION REPORT

12/30/2015

Inspector: City of St. Paul

	GE 62567 C	SAH 58(EDG	ERTON) C	VER PHALE	I BL. BUSH; U	P RR	ROUTI	NE INSP	. DATE:	10/07/20	15		
County	: Ramsey Location: 0.2 MI N OF JCT PAYNE AV							4	12.9 ft.				
City:	St Paul		Ro	oute: 04 - CSAF	I 58 Ref. Pt.: 0	008.00+000	Deck Wid	lth:	58.3 ft.				
Towns	hip:		Co	ontrol Section:			Rdwy. Area/ Pct. Unsnd: 16512 sq. ft. / %						
Section	n: 29 Town	ship: 029N Ra	ange: 22W	Maint. Area:			Paint Are	a/ Pct. Uns	nd: 0 sq.	ft. / %			
Span ٦ List:	Type: 5 - Prestres Stringer/Mul	sed Concrete 02 ti-beam or Girde											
NBI De	eck: 7 Super	: 8 Sub: 9	Chan:	N Culv: N			_						
				Open, Po	sted, Closed: A	- Open							
					r Code: A - NON	WATERWAY							
	sal Ratings - Appr		Vaterway: I				Un	official Stru	cturally De	eficient N	1		
Requir	ed Bridge Signs -	•	•		·			official Fun	ctionally O	bsolete N	1		
		Horizntal: () - Not Requi	red				official Suff	iciency Ra	ting 9	3.0		
Struct	ure Unit:												
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		
09	Prestressed Co	ncrete Girder	2	Routine	10/07/2015	2441 LF	2440	1	0	0	N/A		
				Routine	10/07/2013	2441 LF	2441	0	0	0	N/A		
		Requires	Monitoring		Monitored	1							
					der the railroad spa eam, over Bush St		2015						
205	Reinforced Con	crete Column	1	Routine	10/07/2015	10 EA	9	1	0	0	N/A		
				Routine	10/07/2013	10 EA	9	1	0	0	N/A		
		Requires	Monitoring		Monitored	I							
		The 1st and 2n	d pier from t	he north end has	nas minor constructions several small spa	lls from poor ag			-08.				
2 10	Reinforced Con	crete Pier Wall	4	Routine	10/07/2015	48-LF	48	θ	θ	θ	N/A		
				Routine	10/07/2013	48 LF	48	0	0	0	N/A		
		Requires	Monitoring		Monitored	I							
		Notes: need p	hotos										
		crata	2	Routine	10/07/2015	121 LF	121	0	0	0	N/A		
215	Reinforced Con Abutment	CICIO											
215		oroto		Routine	10/07/2013	121 LF	121	0	0	0	N/A		
215			Monitoring		10/07/2013		121	0	0	0	N/A		

Struct	ure Unit:											
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	
234	Reinforced Concrete Pier Cap		1	Routine Routine	10/07/2015 10/07/2013	285 LF 7 LF	285 7	0	0	0	N/A N/A	
		Requires	Monitori		Monitored	1						
		Requires Monitoring Monitored Notes: Pier 5 cantilevers are cracked at the outside edge of pier columns. 2015 Quantity = 5 piers X 57' each = 285 LF total 2015										
300	Strip Seal Deck	Joint	2	Routine	10/07/2015	112 LF	112	0	0	N/A	N/A	
	•			Routine	10/07/2013	112 LF	112	0	0	N/A	N/A	
		Requires	Monitori	ng	Monitored	i						
		Notes: Joints										
301	Poured Deck Jo	pint	2	Routine	10/07/2015	303 LF	303	0	0	N/A	N/A	
				Routine	10/07/2013							
		Requires	Monitori	ng	Monitored	i						
		Notes: Added	element i	n 2015.								
311	Expansion Bear	ring	2	Routine	10/07/2015	72 EA	72	0	0	N/A	N/A	
				Routine	10/07/2013	72 EA	72	0	0	N/A	N/A	
		Requires	Monitori	ng	Monitored	i						
			outment be	c bearing pads are t earings are 1/2" out = 72 see sheet 2								
313	Fixed Bearing		2	Routine	10/07/2015	24 EA	24	0	0	N/A	N/A	
				Routine	10/07/2013	24 EA	24	0	0	N/A	N/A	
		Requires	Monitori	ng	Monitored	1						
		Notes: Fixed B	Bearing To	otal = 16 Located at	pier 2 and pier 3	. 2013						
321	Concrete Appro Slab-Concrete \ Surface	ach Wearing	2	Routine	10/07/2015	2 EA	1	1	0	0	N/A	
				Routine	10/07/2013	2 EA	1	1	0	0	N/A	
		Requires	Monitori	ng	Monitored	d						
		Minor to mode	rate deteri	nhole there is a one soration of the N.approsent. Recommend s	roach. 2015		15					

Structu	ure Unit:										
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
333	Masonry, Other Combination Ma	or sterial Railing	1	Routine	10/07/2015	1020 LF	1020	0	0	N/A	N/A
	Combination We	aterial realing		Routine	10/07/2013	1020 LF	1020	0	0	N/A	N/A
		Requires	Monitori	ng	Monitored	I					
		Notes: Parap Minor impact of	et, W.side damage at	has longitudnal cract the SW corner bridg	king. 2013 le rail. 2015						
334	Metal Bridge Ra	iling (Coated	2	Routine	10/07/2015	1020 LF	820	200	0	0	0
	o aoa,			Routine	10/07/2013	1020 LF	1020	0	0	0	0
		Requires	Monitori	ng	Monitored	I					
				howing the primer coent. CS-2 2015	oat through out. R	ecommend pa	inting. 20°	15			
358	Concrete Deck (Cracking	2	Routine	10/07/2015	1 EA	0	1	0	0	N/A
	Smartriag			Routine	10/07/2013	1 EA	1	0	0	0	N/A
		Requires	Monitori	ng	Monitored	I					
		Notes: Wearing	ng surface	has unsealed cracks	s of moderate size	e or density. 2	015				
359	Underside of Co Smart Flag	oncrete Deck	2	Routine	10/07/2015	1 EA	1	0	0	0	0
				Routine	10/07/2013	1 EA	1	0	0	0	0
		Requires	Monitori	ng	Monitored	I					
		There is a slig	ht soot sta	ransverse cracks wi in from trains under t leaching present. 2	the railroad span.						
377	Low Slump O/L Deck with Epoxy		2	Routine	10/07/2015	16342 SF	0	16342	0	0	0
	Deck with Epoxy	y Rebai)		Routine	10/07/2013	16342 SF	16342	0	0	0	0
		Requires	Monitori	ng	Monitored	I					
				rlay quantity to 16,34 nsound wearing surfa				2015			
380	Secondary Struc	ctural	2	Routine	10/07/2015	1 EA	1	0	0	0	N/A
	Elements			Routine	10/07/2013	1 EA	1	0	0	0	N/A
		Requires	Monitori	ng	Monitored	I					
		Notes: Chang 80 steel diaph	jed quantity rams + 10	y to 1 Total. 2013 concrete diaphrams at the railroad track							

Struct	ure Unit:														
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				
387	Reinforced Concrete Wingwall		2	Routine Routine	10/07/2015 10/07/2013	4 EA 4 EA	3	1 1	0 0	0 0	N/A N/A				
		Requires	Monitori	ng	Monitored	j									
		Notes: There i	s moderat	e map cracking of th	e west wing of th	e north abutme	nt. 06-15								
418	Masonry, Other Combination Ma Wingwall		1	Routine	10/07/2015	1 EA	0	0	1	0	N/A				
				Routine	10/07/2013	1 EA	0	0	1	0	N/A				
		Requires	Monitori	ng	Monitored	d				CS 3 CS 4 CS 5 0 0 N/A 0 0 N/A 1 0 N/A					
		Notes: The ma	asonry wa	ll at the northeast ap	proach area is fa	lling apart on th	e top 1 ft.	for a 10 ft.	length. 07-	15	4 CS 5 N/A N/A N/A N/A N/A N/A N/A N/				
964	Critical Finding	Smart Flag	2	Routine	10/07/2015	1 EA	1	0							
				Routine	10/07/2013	1 EA	1	0	N/A	N/A	N/A				
		Requires	Monitori	ng	Monitored	d									
		Notes: Date 2		- D NOT DELETE THI	S CRITICAL FINI	DING SMART F	LAG.								
982	Approach Guard	ach Cuardrail		Routine	10/07/2015	1 EA	1	0	0	NI/A	NI/A				
902	Approach Guan	uran	2	Routine	10/07/2013	TLA	'	U	U	IN/A	IN/A				
		Requires	Monitori	ng	Monitored	i									
		Notes: Added NW, NE, SE -	element ir	_											
984	Deck & Approac	ch Drainage	2	Routine	10/07/2015	1 EA	1	0	0	N/A	N/A				
				Routine	10/07/2013										
		Requires	Monitori	ng	Monitored	d									
		Notes: Aded e Deck water dra		2015. South and to the No	orth off of the brid	ge. 2015									
985	Slopes & Slope	Protection	2	Routine	10/07/2015	1 EA	1	0	0	N/A	N/A				
			_	Routine	10/07/2013	1 EA	1	0	0	N/A					
		Requires	Monitori	ng	Monitored	i									
		·		nts > < none >											

NBR ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS 1 CS 2 CS 3 CS 4 CS 2 986 Curb & Sidewalk 2 Routine 10/07/2015 1 EA 0 1 0 N/A N/A Routine 10/07/2013 1 EA 1 0 0 N/A N/A Requires Monitoring				-							
NBR ELEMENT NAME ENV REPORT TYPE INSP. DATE QUANTITY CS1 CS2 CS3 CS4 CS2	Struct	ure Unit:									
Requires Monitoring			ΓNAME ENV	REPORT TYPE	INSP. DATE	QUANTITY					QTY CS 5
Requires Monitoring	986	Curb & Sidewalk	. 2	Routine	10/07/2015	1 EA	0	1	0	N/A	N/A
Notes: East sidewalk has a longitudnal crack 2.5' from the wall, runs the length of the bridge. 2013-15 Cracks on walk are unsealed. Any existing sealant has failed. 2015 988 Miscellaneous Items 1 Routine 10/07/2015 1 EA 1 0 0 N/A N/A Routine 10/07/2013 1 EA 1 0 0 N/A N/A Routine 10/07/2013 1 EA 1 0 0 N/A N/A Requires Monitoring Monitored Notes: The N.E. stone retaining wall needs tuckpointing. 98-15 Lighting is in the concrete bridge rail on the West and East sides. 2015 General Notes: UP-RR contact: Mark Wattington (651) 552-3934 cell (1402) 570-6947 mww.wattin@up.com 58. Deck NBI: Minor cracking and leaching is present. 2015 36C. Appr Guardrail NBI: 36C. Appr Guardrail NBI: 59. Superstructure NBI: 61. Channel NBI: 62. Culvert NBI: 71. Waterway Adeq NBI: 72. Appr Roadway Alignment NBI: Inventory Notes:				Routine	10/07/2013	1 EA	1	0	0	N/A	N/A
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Requires Monitoring Monitored	900	Miscellarieous III	enis i								N/A
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71. Waterway Adeq NBI: 72. Appr Roadway Alignment NBI: Inventory Notes:		61. Channel NBI:									
72. Appr Roadway Alignment NBI: Inventory Notes:		62. Culvert NBI:									
Alignment NBI: Inventory Notes:	71. Wa	aterway Adeq NBI:									
	7	72. Appr Roadway Alignment NBI:									
Joseph Lee Glenn Pagel		Inventory Notes:									
Joseph Lee Glenn Pagel											
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Inspector's Signature Reviewer's Signature		Ins	•		_						



1. approach NE.side_1.jpg



2. E.side_1.jpg



3. guardrail NE_1-1.jpg



4. guardrail NE_1-2.jpg



5. underdeck_1-1.jpg



6. underdeck_1-2.jpg



7. underdeck_1-3.jpg



8. underdeck_1-4.jpg



9. underdeck_1-5.jpg



10. wingwall NE.jpg



11. 10-15-13 063.jpg



12. 10-15-13 066.jpg



13. 10-15-13 067.jpg



14. 10-15-13 068.jpg



15. 10-15-13 069.jpg



16. 10-15-13 070.jpg



17. 10-15-13 071.jpg



18. 10-15-13 072.jpg



19. 10-15-13 073.jpg



20. 10-15-13 074.jpg



21. 10-15-13 075.jpg



22. 10-15-13 076.jpg



23. 10-15-13 079.jpg



24. 10-15-13 080.jpg



25. 024 SE corner paint failure on railing..JPG



26. 025 NE corner paint failure on railing..JPG



27. 026 N approach unsealed cracks..JPG



28. 027 SW parapet collision damage..JPG



29. 029 Deck cracking smart flag..JPG



30. 031 E facia girder minor collision damage from traveling W bound on Bush..JPG



31. pier 5_se-1.JPG



32. pier 5_sw-1.JPG