# 2015 ROUTINE BRIDGE INSPECTION REPORT



# BRIDGE # 62084 PEDESTRIAN over CSAH 36(WARNER RD)

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

Date(s) of Inspection: 10/03/2015 Equipment Used:

**Owner: County Highway Agency** 

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

Report Written By: Jerry Schaaf Report Reviewed By: Glenn Pagel Final Report Date: 12/29/2015

MnDOT Bridge Office 3485 Hadley Avenue North Oakdale, MN 55128



# **MnDOT Structure Inventory Report**

Bridge ID: 62084 PEDESTRI	AN OVER CSAH 36(WARNE	-				
GENERAL	ROADWAY					
	Bridge Match ID (TIS)	Userkey 199				
Agency Br. No. District Metro	Roadway O/U Key	Unofficial Structurally Deficient N				
Maint. Area Crew	Route Sys Number	Unofficial Functionally Obsolete N				
County 062 - Ramsey						
City St Paul	Roadway Name or Description	Unofficial Sufficiency Rating -2 Routine Inspection Date 10/03/2015				
Township						
Desc. Loc. 0.1 MI W OF JCT TH 61	Level of Service	Routine Inspection Frequency 24				
	Roadway Type	Inspector Name City of St. Paul				
	Control Section (TH Only)	Status A - Open				
-	Reference Point	NBI CONDITION RATINGS				
Longitude Deg 93 Min 2 Sec 33.51	Detour Length mi	Deck 7 - Good Condition				
Custodian 02 - County Highway Agency	Lanes On Under 5	Unsound Deck %				
Owner 02 - County Highway Agency	ADT Year	Superstructure 8 - Very Good Condition				
BMU Agreement	HCADT 0 ADTT 0 %	Substructure 8 - Very Good Condition				
Year Built 1986	Functional Class	Channel N - Not Applicable				
MN Year Reconstructed	RDWY DIMENSIONS	Culvert N - Not Applicable				
FHWA Year Reconstructed	If Divided NB-EB SB-WB	NBI APPRAISAL RATINGS				
MN Temporary Status	Roadway Width ft. ft.	Structure Evaluation N				
Bridge Plan Location 1 - CENTRAL		Deck Geometry N				
Date Opened to Traffic	Vertical Clearance ft. ft.	Underclearances 9				
On-Off System 0 - OFF	Max. Vert. Clear. ft. ft.	Water Adequacy N - Not Applicable				
Legislative District 67B	Horizontal Clear. ft. ft.	Approach Alignment 9 - Superior to present desir				
STRUCTURE	Lateral Clearance ft. ft.					
Service On 3 - Pedestrian-bicycle	Appr. Surface Width ft.					
Service Under 1 - Highway, w/ or w/out ped.	Bridge Roadway Width ft.	Bridge Railing N - NOT REQUIRED GR Transition N - NOT REQUIRED				
Main Span Type	Median Width On Bridge ft.	GR Transition N - NOT REQUIRED Appr. Guardrail N - NOT REQUIRED				
5 - Prestress or Precast 01 - Beam Span	MISC. BRIDGE DATA	GR Termini N - NOT REQUIRED				
Main Span Detail	Structure Flared 0 - No flare					
Appr. Span Type	Parallel Structure N - No parallel structure	IN DEPTH INSP.				
Appl: Spall Type	Field Conn. ID	Y/N Freq Date				
Appr. Span Datail	Abutment Foundation 1 - CONC	Frac. Critical				
Appr. Span Detail Skew 6 R	(Material/Type) 3 - FTG PILE	Underwater				
- · · -		Pinned Asbly.				
Culvert Type	Pier Foundation 1 - CONC	Spec. Feat.				
Barrel Length ft. Cantilever ID	(Material/Type) 3 - FTG PILE	WATERWAY				
	Historic Status 5 - Not eligible	Drainage Area (sq. mi.)				
NUMBER OF SPANS	PAINT	Waterway Opening sq. ft.				
MAIN: 3 APPR: 0 TOTAL: 3	Year Painted	Navigation Control N - Not applicable, no waterw				
Main Span Length 108.8 ft.		Pier Protection				
Structure Length 239.3 ft.	Unsound Paint %	Nav. Clr. (ft.) Vert. ft. Horiz. ft.				
Deck Width (Out-to-Out) 9.5 ft.	Painted Area sq. ft.	Nav. Vert. Lift Bridge Clear. (ft.)				
Deck Material 1 - Concrete Cast-in-Place	Primer Type	MN Scour Code A - NON WATER' Year				
Wear Surf Type N - Not Applicable (applies on	Finish Type	CAPACITY RATINGS				
Wear Surf Install Year	BRIDGE SIGNS	Design Load 7 - PEDESTRIAN				
Wear Course/Fill Depth 0.00 ft.		Operating Rating 5 - NRAP 0.0				
Deck Membrane 0 - None	Posted Load 0 - Not Required	Inventory Rating 5 - NRAP 0.0				
Deck Rebars 0 - None	Traffic 0 - Not Required	Posting VEH: SEMI: DBL:				
Deck Rebars Install Year	Horizontal 0 - Not Required					
Structure Area (Out-to-Out) 2273 sq. ft.	Vertical 0 - Not Required	Rating Date				
Roadway Area (Curb-to-Curb) 1916 sq. ft.		MnDOT Permit Codes				
		<b>A:</b> N - N/A				
Sidewalk Width Lt 0.00 ft. Rt 0.00 ft.						
Sidewalk Width       Lt 0.00       ft.       Rt 0.00       ft.         Curb Height       Lt 0.00       ft.       Rt 0.00       ft.		B: N - N/A C: N - N/A				

#### **MnDOT BRIDGE INSPECTION REPORT**

12/29/2015

Inspector: City of St. Paul

#### ROUTINE INSP. DATE: 10/03/2015

BRIDGE 62084 PEDESTRIAN OVER CSAH 36(WARNER RD)								ROUTINE INSP. DATE: 10/03/2015						
County	: Ramsey		L	ocation: 0.1 MI	W OF JCT TH 61		Length:	2	39.3 ft.					
City:	St Paul		R	oute:	Ref. Pt.: Deck Width: 9.5 ft.									
Townsh	hip:		С		Rdwy. Area/ Pct. Unsnd: 1916 sq. ft. / %									
Sectior	n: 3 Towr	nship: 028N Ra	nge: 22W		Paint Area	a/ Pct. Uns	and: sq. ft	. / %						
Span T List:	ype: 5 - Prestres Stringer/Mu	ssed Concrete 02 Ilti-beam or Girde	2 - er	idge Nbr.:		Culvert: Postings:	N/A							
NBI De	eck: 7 Supe	er: 8 Sub: 8	B Chan:	N Culv: N										
				Open, Po	sted, Closed: A	- Open								
Annroid	sal Ratings - App	reach: 0 M	/aterway:		r Code: A - NON	WATERWAY		<i>(</i> ()   0)						
	• • • •	oroach: 9 V - Load Posting: (	,	N ired	Traffic: 0 - N	Not Required			ucturally De					
rtoquirt		-	) - Not Requ			Not Required			ictionally O ficiency Ra					
Ctructu	uro Liniti						on			ing it	1			
	ure Unit:													
ELEM NBR	ELEMEN	IT NAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5			
012	Top of Concret Overlay - Unco	· ·	1	Routine	10/03/2015	2270 SF	2270	0	0	0	0			
				Routine	10/03/2013	2270 SF	2270	0	0	0	0			
	Requires Monitoring													
		Notes: No spa Minor cracking		or patches. 2013- 13-15	15									
109	Prestressed Co or Beam	oncrete Girder	2	Routine	10/03/2015	459 LF	459	0	0	0	N/A			
				Routine	10/03/2013	459 LF	459	0	0	0	N/A			
		Requires	Monitoring	J	Monitored									
		Notes: 3/4" sh	ift of approa	ch beams to the s	outh. 09-15									
215	Reinforced Cor Abutment	ncrete	2	Routine	10/03/2015	20 LF	20	0	0	0	N/A			
				Routine	10/03/2013	20 LF	20	0	0	0	N/A			
		Requires	Monitored											
		Notes: There i	s a 0.020 ind	ch vertical crack fo	or the height of the	e north abutme	nt at the ce	nter. 08-11	l.					
234	Reinforced Cor	ncrete Pier Cap	2	Routine	10/03/2015	18 LF	18	0	0	0	N/A			
				Routine	10/03/2013	18 LF	18	0	0	0	N/A			
	Requires Monitoring Monitored													
		Notes: Minor of	racking at c	urtain wall cold joi	int, on the pier sup	port S.side. 20	)11-15							

## BRIDGE 62084 PEDESTRIAN OVER CSAH 36(WARNER RD)

ROUTINE INSP. DATE: 10/03/2015

Structu	ure Unit:										
ELEM NBR	ELEMENT N	JAME	ENV	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
300	Strip Seal Deck Joint		2	Routine Routine	10/03/2015 10/03/2013	20 LF 20 LF	20 20	0 0	0 0	N/A N/A	N/A N/A
		]Requires	Monitorin	g	Monitored	1					
	N	otes: Previou	is commen	ts > < none >							
302	Compression Seal	Deck Joint	2	Routine	10/03/2015	10 LF	10	0	0	N/A	N/A
				Routine	10/03/2013	10 LF	10	0	0	N/A	N/A
		Requires	Monitorin	g	Monitored	ł					
	N	otes: Date 20	)02-10-09 -								
311	Expansion Bearing	I	2	Routine	10/03/2015	4 EA	4	0	0	N/A	N/A
				Routine	10/03/2013	4 EA	4	0	0	N/A	N/A
		Requires Monitoring			Monitored						
		otes: revious comm	nents > < r	ione >							
313	Fixed Bearing		2	Routine	10/03/2015	8 EA	8	0	0	N/A	N/A
010	Jan 19		-	Routine	10/03/2013	8 EA	8	0	0	N/A	N/A
		Requires	Monitorin	g	Monitored	1					
		otes: revious comm	nents > < r	ione >							
320	Concrete Approach Slab-Bituminous W Surface		2	Routine	10/03/2015	1 EA	0	0	1	0	N/A
				Routine	10/03/2013	1 EA	0	0	1	0	N/A
		Requires	Monitorin	g	Monitored	ł					
	N	otes: (Bitumi	nous appro	aches) Thirteen tra	insverse cracks ir	n south approac	ch. 94-11.				
321	Concrete Approach Slab-Concrete Wea Surface		2	Routine	10/03/2015	1 EA	1	0	0	0	N/A
				Routine	10/03/2013	1 EA	1	0	0	0	N/A
		Requires	Monitorin	g		ł					
		otes: Numero racks are uns		erse cracks in the ea 15	ast approach wall	k. 06-11.					

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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		
334	Metal Bridge Rai or Painted)	ling (Coated	2	Routine	10/03/2015	449 LF	444	5	0	0	0		
	or Fainted)			Routine	10/03/2013	449 LF	449	0	0	0	0		
		Requires	Monitorii	ng	Monitored	ł							
		Notes: The south end of the east bridge handrail needs the sharp edge feathered. 06-07. Partially corrected. 08-11. The north end of the west rail needs a cap. 07. The bottom pipe (6') at the south ramp is bent out 3 inches on the north side. 08-15 5' of pipe rail is missing - S.side. 2015											
359	Underside of Cor Smart Flag	ncrete Deck	2	Routine	10/03/2015	1 EA	1	0	0	0	0		
	0			Routine	10/03/2013	1 EA	1	0	0	0	0		
		Requires	Monitorii	ng		ł							
		Notes: Previou	us comme	nts > < none >									
380	Secondary Struc Elements	tural	2	Routine	10/03/2015	10 EA	10	0	0	0	N/A		
				Routine	10/03/2013	10 EA	10	0	0	0	N/A		
		Requires	Monitorii	ng		1							
		Notes: Previous comm	nents > <	none >									
387	Reinforced Conc	rete Wingwall	2	Routine	10/03/2015	4 EA	4	0	0	0	N/A		
				Routine	10/03/2013	4 EA	4	0	0	0	N/A		
		Requires	Monitori	ng	Monitored	ł							
		The wing walls Several capsto Dry block retair	are keystones of the ning wall a valls have	northwest wall are of t N. approach. fine vertical cracks	off and only one is	s laying at the b	-	ne wall. 08-	.11.				
409	Chain Link Fence	2	2	Routine	10/03/2015	1 LF	1	0	0	0	0		
403			2	Routine	10/03/2013			Ŭ	<sup>o</sup>	Ŭ	<sup>o</sup>		
		Requires	Monitorii	ng	Monitored	ł							
		Notes: Added element in 2015. Quantity needed next inspection. 5' of pipe rail is missing - S.side.											
964	Critical Finding S	mart Flag	2	Routine	10/03/2015	1 EA	1	0	N/A	N/A	N/A		
				Routine	10/03/2013	1 EA	1	0	N/A	N/A	N/A		
	Requires		Requires Monitoring										
		Notes: DO NOT DELETE THIS CRITICAL FINDING SMART FLAG.											

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Structure 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
981	Signing		1	Routine	10/03/2015	1 EA	1	0	0	0	0
				Routine	10/03/2013	1 EA	1	0	0	0	0
		Requires	Monitorin	g		I					
		he east end of t	the bridge	ramp is do	wn on the (	ground. 98-	08.				
984	Deck & Approad	ch Drainage	2	Routine	10/03/2015	1 EA	1	0	0	N/A	N/A
		-		Routine	10/03/2013	1 EA	0	1	0	N/A	N/A
		Requires	Monitorin	g		I					
		Notes:		•							
988	Miscellaneous I	tems	1	Routine	10/03/2015	1 EA	1	0	0	N/A	N/A
				Routine	10/03/2013	1 EA	1	0	0	N/A	N/A
		Requires	Monitorin	D	Monitored	l					
		Notes: none		0							
	General Notes	: < none >									
	58. Deck NBI	: Minor cracki	ng and wea	r. 2011							
36A. I	Brdg Railings NBI	:									
36E	3. Transitions NBI	:									
36C. A	ppr Guardrail NBI	:									
36	D. Appr Guardrai Terminal NBI	l :									
59. Si	uperstructure NBI	:									
60.	Substructure NBI	:									
	61. Channel NBI	:									
	62. Culvert NBI	:									
71. Wa	aterway Adeq NBI	:									
7	72. Appr Roadway Alignment NBI	/ :									
	Inventory Notes	:									

Jerry Schaaf

Inspector's Signature

Glenn Pagel



1. 2010 deck view ramp\_to\_trail.jpg



6. CB repair area\_1.jpg



11. joint\_ramp\_1.jpg



16. joint\_ramp\_lack\_of.jpg



21. pier\_support S.side\_N.bearing.jpg



26. 10-3-13 236.jpg



2. 2011 deckview\_1.jpg



7. curtain\_wall\_crack\_1.jpg



12. joint\_ramp\_2.jpg



17. joint\_S.side\_north.jpg



22. pier\_support S.side\_S.bearing.jpg



27. 10-3-13 237.jpg



3. 2011 deckview\_2.jpg



8. curtain\_wall\_crack\_2.jpg



13. joint\_ramp\_3.jpg



18. joint\_S.side\_south\_1.jpg



23. pier\_support\_S.side.jpg



28. 2013 deckview.jpg



4. 2011 elevation view.jpg



9. fence damage\_1.jpg



14. joint\_ramp\_4.jpg



19. joint\_wall\_1.jpg



24. ramp cracks\_1.jpg



29. 2013 deckview.jpg



5. bearing.jpg



10. fence damage\_2.jpg



15. joint\_ramp\_5.jpg



20. joint\_wall\_2.jpg



25. ramp cracks\_2.jpg

