

**2015 ROUTINE
BRIDGE INSPECTION REPORT**



**BRIDGE # 62644
BNSF RR over CSAH 46**

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: St Paul

Date(s) of Inspection: 04/30/2015

Equipment Used:

Owner: Railroad

Inspected By: Ekstrand, Ron; Engel, Michael

Report Written By: Ron Ekstrand

Report Reviewed By: Glenn Pagel

Final Report Date: 11/16/2015

**MnDOT Bridge Office
3485 Hadley Avenue North
Oakdale, MN 55128**



MnDOT Structure Inventory Report

Bridge ID: 62644

BNSF RR

over CSAH 46

Date: 11/16/2015

GENERAL			
Agency Br. No.			
District Metro			
Maint. Area		Crew	
County 062 - Ramsey			
City St Paul			
Township			
Desc. Loc. 0.3 MI SW OF JCT COMO AV			
Sect., Twp., Range		29 - 029N - 23W	
Latitude	Deg 44	Min 58	Sec 30.23
Longitude	Deg 93	Min 11	Sec 36.59
Custodian 27 - Railroad			
Owner 27 - Railroad			
BMU Agreement			
Year Built		1905	
MN Year Reconstructed			
FHWA Year Reconstructed 2009			
MN Temporary Status			
Bridge Plan Location 4 - MUNICIPAL			
Date Opened to Traffic			
On-Off System		0 - OFF	
Legislative District 66B			

STRUCTURE			
Service On 2 - Railroad			
Service Under 1 - Highway, w/ or w/out ped.			
Main Span Type		05 - Thru Girder	
3 - Steel			
Main Span Detail			
Appr. Span Type			
Appr. Span Detail			
Skew	13	R	
Culvert Type			
Barrel Length		ft.	
Cantilever ID			

NUMBER OF SPANS			
MAIN: 1	APPR: 0	TOTAL: 1	
Main Span Length	91.7	ft.	
Structure Length	94.1	ft.	
Deck Width (Out-to-Out)	34.5	ft.	
Deck Material 5 - Steel Plate (includes orthotr			
Wear Surf Type 0 - None (no additional concre			
Wear Surf Install Year 2009			
Wear Course/Fill Depth		0.00 ft.	
Deck Membrane 0 - None			
Deck Rebars 0 - None			
Deck Rebars Install Year 2009			
Structure Area (Out-to-Out)		3246 sq. ft.	
Roadway Area (Curb-to-Curb) sq. ft.			
Sidewalk Width	Lt 0.0	ft.	Rt 0.0 ft.
Curb Height	Lt 0.0	ft.	Rt 0.0 ft.
Rail Type	Lt NN	Rt NN	

ROADWAY			
Bridge Match ID (TIS) 0			
Roadway O/U Key Route On Structure			
Route Sys		Number	
Roadway Name or Description			
BNSF RR			
Level of Service 0 - NONE OF THE BELOW			
Roadway Type 0 - Highway traffic not carried			
Control Section (TH Only)			
Reference Point			
Detour Length		mi	
Lanes	On	Under 2	
	ADT	Year	
HCADT	0	ADTT 0 %	
Functional Class			

RDWY DIMENSIONS			
If Divided	NB-EB	SB-WB	
Roadway Width	ft.	ft.	
Vertical Clearance	ft.	ft.	
Max. Vert. Clear.	ft.	ft.	
Horizontal Clear.	ft.	ft.	
Lateral Clearance	ft.	ft.	
Appr. Surface Width	ft.		
Bridge Roadway Width	ft.		
Median Width On Bridge	ft.		

MISC. BRIDGE DATA	
Structure Flared	0 - No flare
Parallel Structure	N - No parallel structure
Field Conn. ID	
Abutment Foundation	1 - CONC
(Material/Type)	3 - FTG PILE
Pier Foundation	N - N/A
(Material/Type)	N - N/A
Historic Status	5 - Not eligible

PAINT	
Year Painted	
Unsound Paint %	
Painted Area	sq. ft.
Primer Type	
Finish Type	

BRIDGE SIGNS	
Posted Load	0 - Not Required
Traffic	0 - Not Required
Horizontal	0 - Not Required
Vertical	N - Not Applicable

INSPECTION	
Userkey	199
Unofficial Structurally Deficient	N
Unofficial Functionally Obsolete	N
Unofficial Sufficiency Rating	-2
Routine Inspection Date	04/30/2015
Routine Inspection Frequency	12
Inspector Name	City of St. Paul
Status	A - Open

NBI CONDITION RATINGS	
Deck	9 - Excellent Condition
Unsound Deck %	
Superstructure	9 - Excellent Condition
Substructure	9 - Excellent Condition
Channel	N - Not Applicable
Culvert	N - Not Applicable

NBI APPRAISAL RATINGS	
Structure Evaluation N	
Deck Geometry	N
Underclearances	3
Water Adequacy	N - Not Applicable
Approach Alignment	N - Not Applicable

SAFETY FEATURES	
Bridge Railing	N - NOT REQUIRED
GR Transition	N - NOT REQUIRED
Appr. Guardrail	N - NOT REQUIRED
GR Termini	N - NOT REQUIRED

IN DEPTH INSP.		
Y/N	Freq	Date
Frac. Critical		
Underwater		
Pinned Asbly.		
Spec. Feat.		

WATERWAY	
Drainage Area (sq. mi.)	
Waterway Opening	sq. ft.
Navigation Control	N - Not applicable, no waterw
Pier Protection	
Nav. Clr. (ft.)	Vert. ft. Horiz. ft.
Nav. Vert. Lift Bridge Clear. (ft.)	
MN Scour Code	A - NON WATER' Year

CAPACITY RATINGS		
Design Load	8 - RAILROAD	
Operating Rating		
Inventory Rating		
Posting VEH:	SEMI:	DBL:
Rating Date		
MnDOT Permit Codes		
A: N - N/A		
B: N - N/A		
C: N - N/A		

MnDOT BRIDGE INSPECTION REPORT

11/16/2015

Inspector: City of St. Paul

BRIDGE 62644 BNSF RR OVER CSAH 46

ROUTINE INSP. DATE: 04/30/2015

County: Ramsey	Location: 0.3 MI SW OF JCT COMO AV	Length: 94.1 ft.
City: St Paul	Route: Ref. Pt.:	Deck Width: 34.5 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: sq. ft. / %
Section: 29 Township: 029N Range: 23W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 3 - Steel 03 - Girder and Floorbeam	Local Agency Bridge Nbr.:	Culvert: N/A
List: System		Postings:
NBI Deck: 9 Super: 9 Sub: 9 Chan: N Culv: N	Open, Posted, Closed: A - Open	
	MN Scour Code: A - NON WATERWAY	

Appraisal Ratings - Approach: N Waterway: N	Unofficial Structurally Deficient N
Required Bridge Signs - Load Posting: 0 - Not Required	Unofficial Functionally Obsolete N
Horizontal: 0 - Not Required	Unofficial Sufficiency Rating N
Traffic: 0 - Not Required	
Vertical: N - Not Applicable	

Structure 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
106	Weathering Steel Girder or Beam	2	Routine	04/30/2015	188 LF	188	0	0	0	N/A
			Routine	11/01/2013	188 LF	188	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] THRU PLATE GIRDER Quantity = 94' X 2 = 188 LF 2015										
151	Weathering Steel Floorbeam	2	Routine	04/30/2015	1622 LF	1622	0	0	0	N/A
			Routine	11/01/2013	1622 LF	1622	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: Quantity = 34.5' X 47 = 1622 LF 2015										
215	Reinforced Concrete Abutment	2	Routine	04/30/2015	85 LF	85	0	0	0	N/A
			Routine	11/01/2013	85 LF	85	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] CIP ABUTMENT WITH PRECAST BACKWALL. Quantity = 42.5' X 2 = 85 LF 2015										
217	Masonry, Other or Combination Material Abutment	2	Routine	04/30/2015	111 LF	111	0	0	0	N/A
			Routine	11/01/2013	111 LF	111	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] EXISTING ABUTMENTS REMAIN AS WALLS. Quantity = W.side 58' + E.side 53' = 111 LF 2015 Minor deterioration present. 2015										

Structure 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
304	Open Deck Joint	2	Routine	04/30/2015	69 LF	69	0	0	N/A	N/A
			Routine	11/01/2013	69 LF	69	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] LOCATED AT EACH ABUTMENT. Quantity = 34.5' X 2 = 69 LF. 2015										
310	Elastomeric (Expansion) Bearing	2	Routine	04/30/2015	2 EA	2	0	0	N/A	N/A
			Routine	11/01/2013	2 EA	2	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] LOCATED AT THE CENTER OF EACH ABUTMENT. Quantity = 2 total. 2015										
311	Expansion Bearing	2	Routine	04/30/2015	2 EA	2	0	0	N/A	N/A
			Routine	11/01/2013	2 EA	2	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] LOCATED AT THE EAST SIDE ABUTMENT. Quantity = 2 total. 2015										
313	Fixed Bearing	2	Routine	04/30/2015	2 EA	2	0	0	N/A	N/A
			Routine	11/01/2013	2 EA	2	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] LOCATED AT THE WEST SIDE ABUTMENT. Quantity = 2 total. 2015										
380	Secondary Structural Elements	2	Routine	04/30/2015	1 EA	1	0	0	0	N/A
			Routine	11/01/2013	1 EA	1	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] 138 STEEL DIAPHRAGMS.										
401	Steel Ballast Plate Deck (Railroad Bridges)	2	Routine	04/30/2015	3246 SF	3246	0	0	0	0
			Routine	11/01/2013	3246 SF	3246	0	0	0	0
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
Notes: [2013] ACTIVE TRACKS. 2015 Quantity = 34.5' X 94.1' = 3246 SF 2015										

Structure 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
418	Masonry, Other or Combination Material Wingwall	2	Routine	04/30/2015	1 EA	1	0	0	0	N/A
			Routine	11/01/2013	1 EA	1	0	0	0	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
	Notes: [2013] NORTHEAST SIDE ONLY.									

964	Critical Finding Smart Flag	2	Routine	04/30/2015	1 EA	1	0	N/A	N/A	N/A
			Routine	11/01/2013	1 EA	1	0	N/A	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
	Notes: DO NOT DELETE THIS CRTICAL FINDING SMART FLAG.									

984	Deck & Approach Drainage	2	Routine	04/30/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/01/2013	1 EA	1	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
	Notes:									

985	Slopes & Slope Protection	2	Routine	04/30/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/01/2013	1 EA	1	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
	Notes: [2013] NORTHEAST SIDE MINOR EROSION. 2015									

988	Miscellaneous Items	2	Routine	04/30/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/01/2013	1 EA	1	0	0	N/A	N/A
			<input type="checkbox"/> Requires Monitoring			<input type="checkbox"/> Monitored				
	Notes: [2013] EXISTING WALK, RAILING AND PAVED BLVD UNDER BRIDGE.									

General Notes: March 2015: Bridge 62644 added to inventory by MnDOT Bridge Office.
The January 1, 2015, "dummy" inspection was created by the MnDOT Bridge Office --- THIS IS NOT AN ACTUAL FIELD INSPECTION.

Inspection dated 11-01-2013 by RE and GP was entered by MnDOT Bridge Office.

BNSF

Railroad contacts: bridge inspector - Lane Gilliland (612) 219-4219

bridge supervisor - Michael Anderson (763) 782-3310

(612) 749-3401

michael.anderson5@bnsf.com

58. Deck NBI:

36A. Brdg Railings NBI:

36B. Transitions NBI:

Structure 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
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36C. Appr Guardrail NBI:

36D. Appr Guardrail
Terminal NBI:

59. Superstructure NBI:

60. Substructure NBI:

61. Channel NBI:

62. Culvert NBI:

71. Waterway Adeq NBI:

72. Appr Roadway
Alignment NBI:

Inventory Notes:

Ron Ekstrand

Inspector's Signature

Glenn Pagel

Reviewer's Signature



1. 2013 google
view_4.png



2. 2014 elevation view
014.JPG