

**2016 ROUTINE
BRIDGE INSPECTION REPORT**



**BRIDGE # 62J05
CSAH 77 over RICE CREEK**

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: Mounds View

STATE: Minnesota

Date of Inspection: 08/18/2016

Equipment Used:

Owner: County Highway Agency

Inspected By: Bodelson, Dan

Report Written By: Dan Bodelson
Report Reviewed By: Nicklaus Fischer
Final Report Date: 10/04/2016

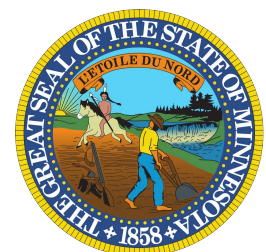


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Minnesota Structure Inventory Report

Bridge ID: 62J05

CSAH 77

over RICE CREEK

Date: 10/04/2016

GENERAL

Agency Br. No.
 District Metro
 Maint. Area Crew
 County 062 - Ramsey
 City Mounds View
 Township
 Desc. Loc. 0.1 MI S OF JCT CSAH 9
 Sect., Twp., Range 8 - 030N - 23W
 Latitude Deg 45 Min 5 Sec 35.94
 Longitude Deg 93 Min 11 Sec 39.27
 Custodian 02 - County Highway Agency
 Owner 02 - County Highway Agency
 BMU Agreement
 Year Built 1997
 MN Year Reconstructed
 FHWA Year Reconstructed
 MN Temporary Status
 Bridge Plan Location 3 - COUNTY
 Date Opened to Traffic
 On-Off System 1 - ON
 Legislative District 51B
 ABC Suitable

STRUCTURE

Service On 1 - Highway
 Service Under 5 - Waterway
 Main Span Type
 5 - Prestress or Precast 13 - Box Culvert
 Main Span Detail
 Appr. Span Type
 Appr. Span Detail
 Skew 15 R
 Culvert Type PCST 128T
 Barrel Length 94 ft.
 Cantilever ID

NUMBER OF SPANS

MAIN: 3 APPR: 0 TOTAL: 3
 Main Span Length 12.4 ft.
 Structure Length 47.6 ft.
 Deck Width (Out-to-Out) 0.0 ft.
 Deck Material N - Not Applicable
 Wear Surf Type 6 - Bituminous
 Wear Surf Install Year
 Wear Course/Fill Depth 3.50 ft.
 Deck Membrane N - Not Applicable (applies onl
 Deck Rebars N - Not Applicable (no deck)
 Deck Rebars Install Year
 Structure Area (Out-to-Out) 0 sq. ft.
 Roadway Area (Curb-to-Curb) 2185 sq. ft.
 Sidewalk Width Lt 0.00 ft. Rt 0.00 ft.
 Curb Height Lt 0.00 ft. Rt 0.00 ft.
 Rail Type Lt NN Rt NN

ROADWAY

Bridge Match ID (TIS) 0
 Roadway O/U Key Route On Structure
 Route Sys 04 - CSAH Number 77
 Roadway Name or Description
 CSAH 77
 Level of Service 1 - MAINLINE
 Roadway Type 2 - 2-way traffic
 Control Section (TH Only)
 Reference Point 004+00.385
 Detour Length 1.0 mi
 Lanes On 2 Under 0
 ADT 6374 Year 2008
 HCADT 0 ADTT 0 %
 Functional Class 16 - Urban - Minor Arterial

RDWY DIMENSIONS

If Divided	NB-EB	SB-WB
Roadway Width	52.00	ft.
Vertical Clearance	ft.	ft.
Max. Vert. Clear.	ft.	ft.
Horizontal Clear.	ft.	ft.
Lateral Clearance	ft.	ft.
Appr. Surface Width	52.0	ft.
Bridge Roadway Width	0.0	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 N - N/A
 (Material/Type) N - N/A
 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 102
 Unofficial Structurally Deficient N
 Unofficial Functionally Obsolete N
 Unofficial Sufficiency Rating 99.4
 Routine Inspection Date 08/18/2016
 Routine Inspection Frequency 48
 Inspector Name CO Bridge
 Status A - Open

NBI CONDITION RATINGS

Deck N - Not Applicable
 Unsound Deck %
 Superstructure N - Not Applicable
 Substructure N - Not Applicable
 Channel 6 - Bank slump; minor damage
 Culvert 6 - Deterioration or initial disint

NBI APPRAISAL RATINGS

Structure Evaluation 6
 Deck Geometry N
 Underclearances N
 Water Adequacy 8 - Bridge Above Approache
 Approach Alignment 6 - Equal to present minimu

SAFETY FEATURES

Bridge Railing N - NOT REQUIRED
 GR Transition N - NOT REQUIRED
 Appr. Guardrail 1 - MEETS STANDARDS
 GR Termini 1 - MEETS STANDARDS

IN DEPTH INSP.

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

WATERWAY

Drainage Area (sq. mi.)
 Waterway Opening 288 sq. ft.
 Navigation Control 0 - No nav. control on waterw
 Pier Protection
 Nav. Clr. (ft.) Vert. ft. Horiz. ft.
 Nav. Vert. Lift Bridge Clear. (ft.)
 MN Scour Code E - CULVERT Year 1997

CAPACITY RATINGS

Design Load 9 - HS 25 (OR GREATER)
 Operating Rating A - Assigned ratir 42.0
 Inventory Rating A - Assigned ratir 25.0
 Posting VEH: SEMI: DBL:
 Rating Date 07/08/2013

Minnesota Permit Codes

A: N - N/A
 B: N - N/A
 C: N - N/A

Minnesota Structure Inventory Report

Bridge ID: 62J05

CSAH 77 over RICE CREEK

Date: 09/26/2016

+ GENERAL +	+ ROADWAY +	+ INSPECTION +																				
Agency Br. No. Crew District 05 Maint. Area County 062 - Ramsey City Mounds View Township Desc. Loc. 0.1 MI S OF JCT CSAH 9 Sect., Twp., Range 8 - 030N - 23W Latitude 45 ° 5 ' 35.94 " Longitude 93 ° 11 ' 39.27 " Custodian 02 - County Highway Agency Owner 02 - County Highway Agency BMU Agreement Year Built 1997 MN Year Reconstructed FHWA Year Reconstructed MN Temporary Status Bridge Plan Location 3 - COUNTY Date Opened to Traffic On - Off System 1 - ON Legislative District 51B Potential ABC 2 - N/A	Bridge Match ID (TIS) 0 Roadway O/U Key Route On Structure Route Sys 04 - CSAH Number 77 Roadway Name or Description CSAH 77 Level of Service 1 - MAINLINE Roadway Type 2 - 2-way traffic Control Section (TH Only) Reference Point 004+00.385 Detour Length 1.0 mi. Lanes ON 2 UNDER 0 ADT 6374 YEAR 2008 HCA DT ADTT % Functional Class 16 - Urban - Minor Arterial	Userkey 102 Structurally Deficient N Functionally Obsolete N Sufficiency Rating 99.4 Routine Inspection Date 08/18/2016 Routine Inspection Frequency 48 Inspector Name Bodelson, Dan Status A - Open																				
		+ NBI CONDITION RATINGS +																				
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		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%; text-align: center;">Y/N</th> <th style="width: 15%; text-align: center;">Freq</th> <th style="width: 15%; text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td>Frac. Critical</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Underwater</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Pinned Asbly.</td> <td style="text-align: center;">N</td> <td></td> <td></td> </tr> <tr> <td>Spec. Feat.</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Y/N	Freq	Date	Frac. Critical	N			Underwater	N			Pinned Asbly.	N			Spec. Feat.			
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Frac. Critical	N																					
Underwater	N																					
Pinned Asbly.	N																					
Spec. Feat.																						
		+ WATERWAY +																				
		Drainage Area (sq. mi.) Waterway Opening (sf.) 288 Navigation Control 0 - No nav. control on Pier Protection Nav. Clr. (ft.) Vert. 0.0 Horiz. 0.0 Nav. Vert. Lift Bridge Clear. (ft.) MN Scour Code E - CULVERT Year 1997																				
		+ CAPACITY RATINGS +																				
		Design Load 9 - HS 25 (OR GREATER) Operating Rating 2 - HS TRUCK 42.0 Inventory Rating 2 - HS TRUCK 25.0 Posting VEH: SEMI: DBL: Rating Date 07/08/2013 Overweight Permit Codes A N - N/A B N - N/A C N - N/A																				
+ STRUCTURE +	+ RDWY DIMENSIONS +																					
Service On 1 - Highway Service Under 5 - Waterway Main Span Type 5 - Prestress or Precast Main Span Design 13 - Box Culvert Main Span Detail Appr. Span Type Appr. Span Design Appr. Span Detail Skew 15 RIGHT Culvert Type PCST 128T Barrel Length 94 Cantilever ID Number of Spans MAIN: 3 APPR: 0 TOTAL: Main Span Length 12.4 ft. Structure Length 47.6 ft. Deck Width (Out-to-Out) 0.0 ft. Deck Material N - Not Applicable Wear Surf Type 6 - Bituminous Wear Surf Install Year Wear Course/Fill Depth 3.50 ft. Deck Membrane N - Not Applicable (applies) Deck Rebars N - Not Applicable (no deck) Deck Rebars Install Year Structure Area (Out-to-Out) 0 sq. ft. Roadway Area (Curb-to-Curb) 2185 sq. ft. Sidewalk Width 50A. Lt 0.00 ft. 50B. Rt 0.00 ft. Curb Height Lt 0.00 ft. Rt 0.00 ft. Rail Type Lt NN Rt NN	If Divided NB-EB SB-WB Roadway Width 52.00 ft. ft. Vertical Clearance ft. ft. Max. Vert. Clear. ft. ft. Horizontal Clear. ft. ft. Lateral Clearance ft. ft. Appr. Surface Width 52.0 ft. Bridge Roadway Width 0.0 ft. Median Width On Bridge ft.																					
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		+ 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																				

MINNESOTA BRIDGE INSPECTION REPORT

10/04/2016

BRIDGE 62J05 CSAH 77 OVER RICE CREEK

ROUTINE INSP. DATE: 08/18/2016

County: Ramsey	Location: 0.1 MI S OF JCT CSAH 9	Length: 47.6 ft.
City: Mounds View	Route: 04 - CSAH 77 Ref. Pt.: 004+00.385	Deck Width: 0.0 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2185 sq. ft. / %
Section: 8 Township: 030N Range: 23W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 1 - Concrete 19 - Culvert (includes frame culverts)	Local Agency Bridge Nbr.:	Culvert: PCST 128T
List:		Postings:
NBI Deck: N Super: N Sub: N Chan: 6 Culv: 6		
	Open, Posted, Closed: A - Open	
	MN Scour Code: E - CULVERT	

Appraisal Ratings - Approach: 6 Waterway: 8	Unofficial Structurally Deficient	N
Required Bridge Signs - Load Posting: 0 - Not Required	Unofficial Functionally Obsolete	N
Horizontal: 0 - Not Required	Vertical: N - Not Applicable	Unofficial Sufficiency Rating 99.4

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
241	Reinforced Concrete Culvert	2	Routine	08/18/2016	282 LF	0	282	0	0	N/A
			Routine	08/21/2012	282 LF	0	282	0	0	N/A

Notes: [2008-2012] Moderate amount of riprap & debris deposited throughout all culverts.
 [2008-2012] Light scaling exists inside all culverts. [2008-2012] Some deterioration at lift holes- cracking with efflorescence.
 [2006-2012] Some rusting of ties. Debris is blocking flow at west end of culvert #2.
 [2003-2012] There is spalling at joint #3 of culvert #1 near the west end.
 [2002-2012] Superficial cracks are present with minor to moderate deterioration & no separation of joints. All joints are tied.

388	Culvert Headwall, Wingwall or Other End Treatment	2	Routine	08/18/2016	2 EA	0	2	0	0	N/A
			Routine	08/21/2012	2 EA	0	2	0	0	N/A

Notes: [2012] Some infiltration at east side headwalls. All the east side aprons have lifted up moderately.
 [2008-2012] Moderate spalling exists on all headwalls. [2008-2012] Cracking & spalling is present both sides culvert #1 inside @ headwall & culvert joint.
 [2003-2012] There is spalling present at the east end of #3 apron. Some spalling @ headwalls - both sides.
 [2001-2012] Some cracking at all aprons. [2000-2006] Minor cracking at east end apron middle span.
 [2008-2012] Trees are growing at headwalls. Trees should be cleared at both sides.

964	Critical Finding Smart Flag	2	Routine	08/18/2016	1 EA	1	0	N/A	N/A	N/A
			Routine	08/21/2012	1 EA	1	0	N/A	N/A	N/A

Notes:

982	Approach Guardrail	1	Routine	08/18/2016	1 EA	0	1	0	N/A	N/A
			Routine	08/21/2012	1 EA	0	1	0	N/A	N/A

Notes: [2008-2012] There is moderate- major collision damage to the NE corner guardrail. [2012] Should be repaired.
 [2006] Guardrail system is in place & functioning properly. Guardrail has been repaired.
 [2004] There is collision damage to the NW corner guardrail - four broken posts. There is collision damage at the NE corner of Old 8 & Co. Rd. H - 2 broken guardrail posts.

985	Slopes & Slope Protection	1	Routine	08/18/2016	1 EA	0	1	0	N/A	N/A
			Routine	08/21/2012	1 EA	0	1	0	N/A	N/A

Notes: [2008-2012] Bank @ NW corner is slumping.
 [2002-2012] Grouted riprap has minor cracking & settlement.
 [2003-2012] Bank @ NE corner is slumping with erosion of material into and blocking culvert #3.

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
987	Roadway over Culvert	2	Routine	08/18/2016	1 EA	0	1	0	N/A	N/A
			Routine	08/21/2012	1 EA	0	1	0	N/A	N/A

Notes: [2008-2012] There is moderate settlement @ both ends of the bridge.

[2008-2012] There is a moderate transverse crack in bituminous pavement at the south end of the bridge.

General Notes: [2016] Bridge safety inspection was completed by Dan Bodelson, Brian Essler, & Randy Bussiere 8/18/2016.
 [2012] Bridge safety inspection was completed by B. Wieman & D. Bodelson 8/21/2012.
 [2008] Safety inspection was completed by B. Paine & B. Wieman 9/22/2008.
 Safety inspection was completed by Bret Wieman 10/06/2006.
 Bridge #62J05 consists of 3 - 12' W X 8' H box culverts. Built in 1997. All sections are tied.

58. Deck NBI: Structure is a culvert

36A. Brdg Railings NBI: Structure is a culvert w/ No Bridge Railing.

36B. Transitions NBI: Guardrail is over culvert & not connected to culvert.

36C. Appr Guardrail NBI: Approach guardrail meets current standards.

36D. Appr Guardrail
Terminal NBI: Guardrail terminations meet current standards.

59. Superstructure NBI: Structure is a culvert

60. Substructure NBI: Structure is a culvert

61. Channel NBI: Channel has minor aggradation w/ debris slightly restricting flow.
Banks have moderate erosion & slumping.

62. Culvert NBI: Concrete culvert has minor to moderate deterioration.

71. Waterway Adeq NBI: Culvert has greater than 3 feet of freeboard.

72. Appr Roadway
Alignment NBI: Very minor speed reduction required.

Inventory Notes:

Dan Bodelson

Inspector's Signature

Nicklaus Fischer

Reviewer's Signature

MINNESOTA BRIDGE INSPECTION REPORT

10/04/2016

Inspector: CO Bridge

BRIDGE 62J05 CSAH 77 OVER RICE CREEK

County: Ramsey	Location: 0.1 MI S OF JCT CSAH 9	Length: 47.6 ft.
City: Mounds View	Route: 04 - CSAH 77 Ref. Pt.: 004+00.385	Deck Width: 0.0 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2185 sq. ft. / %
Section: 8 Township: 030N Range: 23W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 1 - Concrete 19 - Culvert (includes frame culverts)	Local Agency Bridge Nbr.:	Culvert: PCST 128T
List:		Postings:
NBI Deck: N Super: N Sub: N Chan: 6 Culv: 6		
	Open, Posted, Closed: A - Open	
	MN Scour Code: E - CULVERT	

Appraisal Ratings - Approach: 6 Waterway: 8		Unofficial Structurally Deficient N
Required Bridge Signs - Load Posting: 0 - Not Required	Traffic: 0 - Not Required	Unofficial Functionally Obsolete N
Horizontal: 0 - Not Required	Vertical: N - Not Applicable	Unofficial Sufficiency Rating 99.4

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
241	Reinforced Concrete Culvert	Routine	08/18/2016	282 LF	0	282	0	0
		Migrated Values		282 LF	0	282	0	0
Notes: [2016] debris in west end of culverts 1 & 2 [2016] Moderate rust @ lift holes on east ends of culverts 1 & 2 [2016] Moderate crack on the south sides on west ends of culverts 1 & 2 [2008-2012] Moderate amount of riprap & debris deposited throughout all culverts. [2008-2012] Light scaling exists inside all culverts. [2008-2012] Some deterioration at lift holes- cracking with efflorescence. [2006-2012] Some rusting of ties. Debris is blocking flow at west end of culvert #2. [2003-2012] There is spalling at joint #3 of culvert #1 near the west end. [2002-2012] Superficial cracks are present with minor to moderate deterioration & no separation of joints. All joints are tied.								
800	Critical Deficiencies or Safety Hazards	Routine	08/18/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: [2016] No critical structural deficiencies or serious safety hazards are present on this structure.								
870	Culvert End Treatment	Routine	08/18/2016	2 EA	0	2	0	0
		Migrated Values		2 EA	0	2	0	0
Notes: [2012-2016] Some infiltration at east side headwalls. All the east side aprons have lifted up moderately. [2008-2016] Moderate spalling exists on all headwalls. [2008-2016] Cracking & spalling is present both sides culvert #1 inside @ headwall & culvert joint. [2003-2016] There is spalling present at the east end of #3 apron. Some spalling @ headwalls - both sides. [2001-2016] Some cracking at all aprons. [2000-2006] Minor cracking at east end apron middle span. [2008-2016] Trees are growing at headwalls. Trees should be cleared at both sides.								
871	Roadway Over Culvert	Routine	08/18/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
Notes: [2008-2016] There is moderate settlement @ both ends of the bridge. [2008-2016] There is a moderate transverse crack in bituminous pavement at the south end of the bridge.								
892	Slopes & Slope Protection	Routine	08/18/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
Notes: [2008-2016] Bank @ NW corner is slumping. [2002-2016] Grouted riprap has minor cracking & settlement. [2003-2016] Bank @ NE corner is slumping with erosion of material into and blocking culvert #3.								
893	Guardrail	Routine	08/18/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
Notes: [2016] Moderate damage on east guardrail. [2008-2012] There is moderate- major collision damage to the NE corner guardrail. - removed by MnDOT in 2016 [2006] Guardrail system is in place & functioning properly. Guardrail has been repaired. [2004] There is collision damage to the NW corner guardrail - four broken posts. There is collision damage at the NE corner of Old 8 & Co. Rd. H - 2 broken guardrail posts.								

BRIDGE 62J05 CSAH 77 OVER RICE CREEK

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
894	Deck & Approach Drainage	Routine	08/18/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: [2016] Roadway w/ curb & gutter drains to the north over culvert. Use this element to rate the condition, function, and adequacy of the drainage system.								
900	Protected Species	Routine	08/18/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
Notes: [2016] no species found. Use this element to track the presence of protected species living on this structure.								

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- 58. Deck NBI: Structure is a culvert
 - 36A. Brdg Railings NBI: Structure is a culvert w/ No Bridge Railing.
 - 36B. Transitions NBI: Guardrail is over culvert & not connected to culvert.
 - 36C. Appr Guardrail NBI: Approach guardrail meets current standards.
 - 36D. Appr Guardrail Terminal NBI: Guardrail terminations meet current standards.
 - 59. Superstructure NBI: Structure is a culvert
 - 60. Substructure NBI: Structure is a culvert
 - 61. Channel NBI: Channel has minor aggradation w/ debris slightly restricting flow. Banks have moderate erosion & slumping.
 - 62. Culvert NBI: Concrete culvert has minor to moderate deterioration.
 - 71. Waterway Adeq NBI: Culvert has greater than 3 feet of freeboard.
 - 72. Appr Roadway Alignment NBI: Very minor speed reduction required.
- Inventory Notes:

 Dan Bodelson
 Inspector's Signature

 Nicklaus Fischer
 Reviewer's Signature

Pictures



Photo 1 -



Photo 2 -

Pictures



Photo 3 -



Photo 4 -

Pictures



Photo 5 -



Photo 6 -