

**2016 ROUTINE  
BRIDGE INSPECTION REPORT**



**BRIDGE # 62566  
CSAH 51(LEXINGTON) over RICE CREEK**

**DISTRICT: Metro                      COUNTY: Ramsey                      CITY/TOWNSHIP: Shoreview  
STATE: Minnesota**

**Date of Inspection: 09/14/2016  
Equipment Used: Life Jacket**

**Owner: County Highway Agency**

**Inspected By: Essler, Brian**

**Report Written By: Brian Essler  
Report Reviewed By: Nicklaus Fischer  
Final Report Date: 01/06/2017**



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# Minnesota Structure Inventory Report

**Bridge ID:** 62566

**CSAH 51(LEXINGTON)**

**over** RICE CREEK

**Date:** 01/06/2017

GENERAL	
<b>Agency Br. No.</b>	
<b>District</b> Metro	
<b>Maint. Area</b>	<b>Crew</b>
<b>County</b> 062 - Ramsey	
<b>City</b> Shoreview	
<b>Township</b>	
<b>Desc. Loc.</b> 0.2 MI S OF JCT CSAH 1	
<b>Sect., Twp., Range</b> 3 - 030N - 23W	
<b>Latitude</b> Deg 45 Min 7 Sec 14.76	
<b>Longitude</b> Deg 93 Min 9 Sec 54.99	
<b>Custodian</b> 02 - County Highway Agency	
<b>Owner</b> 02 - County Highway Agency	
<b>BMU Agreement</b>	
<b>Year Built</b>	1993
<b>MN Year Reconstructed</b>	
<b>FHWA Year Reconstructed</b>	
<b>MN Temporary Status</b>	
<b>Bridge Plan Location</b> 3 - COUNTY	
<b>Date Opened to Traffic</b>	
<b>On-Off System</b> 1 - ON	
<b>Legislative District</b> 50B	
<b>ABC Suitable</b>	

STRUCTURE	
<b>Service On</b> 5 - Highway-pedestrian	
<b>Service Under</b> 5 - Waterway	
<b>Main Span Type</b>	
1 - Concrete 09 - Slab Span	
<b>Main Span Detail</b>	
<b>Appr. Span Type</b>	
<b>Appr. Span Detail</b>	
<b>Skew</b> 10 L	
<b>Culvert Type</b>	
<b>Barrel Length</b> ft.	
<b>Cantilever ID</b>	

NUMBER OF SPANS			
<b>MAIN:</b> 1	<b>APPR:</b> 0	<b>TOTAL:</b> 1	
<b>Main Span Length</b>	39.0	ft.	
<b>Structure Length</b>	41.0	ft.	
<b>Deck Width (Out-to-Out)</b>	66.8	ft.	
<b>Deck Material</b>	1 - Concrete Cast-in-Place		
<b>Wear Surf Type</b>	1 - Monolithic Concrete (concr)		
<b>Wear Surf Install Year</b>	1993		
<b>Wear Course/Fill Depth</b>	0.17	ft.	
<b>Deck Membrane</b>	0 - None		
<b>Deck Rebars</b>	1 - Epoxy Coated Reinforcing		
<b>Deck Rebars Install Year</b>	1993		
<b>Structure Area (Out-to-Out)</b>	2739	sq. ft.	
<b>Roadway Area (Curb-to-Curb)</b>	2250	sq. ft.	
<b>Sidewalk Width</b>	Lt 8.00	ft.	Rt 0.00
<b>Curb Height</b>	Lt 0.00	ft.	Rt 0.00
<b>Rail Type</b>	Lt 22		Rt 22

ROADWAY	
<b>Bridge Match ID (TIS)</b> 0	
<b>Roadway O/U Key</b> Route On Structure	
<b>Route Sys</b> 04 - CSAH <b>Number</b> 51	
<b>Roadway Name or Description</b>	CSAH 51
<b>Level of Service</b> 1 - MAINLINE	
<b>Roadway Type</b> 2 - 2-way traffic	
<b>Control Section (TH Only)</b>	
<b>Reference Point</b> 015+00.330	
<b>Detour Length</b> 4.0 mi	
<b>Lanes</b> On 4 Under 0	
<b>ADT</b> 7968 <b>Year</b> 2008	
<b>HCADT</b> 0 <b>ADTT</b> 0 %	
<b>Functional Class</b> 16 - Urban - Minor Arterial	

RDWY DIMENSIONS			
<b>If Divided</b>	<b>NB-EB</b>	<b>SB-WB</b>	
<b>Roadway Width</b>	54.80	ft.	ft.
<b>Vertical Clearance</b>		ft.	ft.
<b>Max. Vert. Clear.</b>		ft.	ft.
<b>Horizontal Clear.</b>	54.7	ft.	ft.
<b>Lateral Clearance</b>		ft.	ft.
<b>Appr. Surface Width</b>	52.0	ft.	
<b>Bridge Roadway Width</b>	54.8	ft.	
<b>Median Width On Bridge</b>		ft.	

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

PAINT	
<b>Year Painted</b>	
<b>Unsound Paint %</b>	
<b>Painted Area</b> sq. ft.	
<b>Primer Type</b>	
<b>Finish Type</b>	

BRIDGE SIGNS	
<b>Posted Load</b> 0 - Not Required	
<b>Traffic</b> 0 - Not Required	
<b>Horizontal</b> 0 - Not Required	
<b>Vertical</b> N - Not Applicable	

INSPECTION	
<b>Userkey</b> 102	
<b>Unofficial Structurally Deficient</b> N	
<b>Unofficial Functionally Obsolete</b> N	
<b>Unofficial Sufficiency Rating</b> 80.2	
<b>Routine Inspection Date</b> 09/14/2016	
<b>Routine Inspection Frequency</b> 24	
<b>Inspector Name</b> CO Bridge	
<b>Status</b> A - Open	

NBI CONDITION RATINGS	
<b>Deck</b> 6 - Satisfactory Condition	
<b>Unsound Deck %</b> 2	
<b>Superstructure</b> 6 - Satisfactory Condition	
<b>Substructure</b> 6 - Satisfactory Condition	
<b>Channel</b> 7 - Needs minor repairs	
<b>Culvert</b> N - Not Applicable	

NBI APPRAISAL RATINGS	
<b>Structure Evaluation</b> 6	
<b>Deck Geometry</b> 5	
<b>Underclearances</b> N	
<b>Water Adequacy</b> 8 - Bridge Above Approache	
<b>Approach Alignment</b> 7 - Better than present minir	

SAFETY FEATURES	
<b>Bridge Railing</b> 1 - MEETS STANDARDS	
<b>GR Transition</b> 0 - SUBSTANDARD	
<b>Appr. Guardrail</b> 0 - SUBSTANDARD	
<b>GR Termini</b> N - NOT REQUIRED	

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

WATERWAY			
<b>Drainage Area (sq. mi.)</b> 146.0			
<b>Waterway Opening</b> 168		sq. ft.	
<b>Navigation Control</b> 0 - No nav. control on waterw			
<b>Pier Protection</b>			
<b>Nav. Clr. (ft.)</b> <b>Vert.</b> ft. <b>Horiz.</b> ft.			
<b>Nav. Vert. Lift Bridge Clear. (ft.)</b>			
<b>MN Scour Code</b> I - LOW RISK <b>Year</b> 1998			

CAPACITY RATINGS		
<b>Design Load</b> 9 - HS 25 (OR GREATER)		
<b>Operating Rating</b> 1 - LF (LF) HS 45.9		
<b>Inventory Rating</b> 1 - LF (LF) HS 25.0		
<b>Posting VEH:</b> <b>SEMI:</b> <b>DBL:</b>		
<b>Rating Date</b> 12/7/1992		
<b>Minnesota Permit Codes</b>		
<b>A:</b> N - N/A		
<b>B:</b> N - N/A		
<b>C:</b> N - N/A		



**MINNESOTA BRIDGE INSPECTION REPORT**

01/06/2017

**BRIDGE 62566 CSAH 51(LEXINGTON) OVER RICE CREEK ROUTINE INSP. DATE: 09/14/2016**

County: Ramsey	Location: 0.2 MI S OF JCT CSAH 1	Length: 41.0 ft.
City: Shoreview	Route: 04 - CSAH 51 Ref. Pt.: 015+00.330	Deck Width: 66.8 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2250 sq. ft. / 2%
Section: 3 Township: 030N Range: 23W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 1 - Concrete 1 - Slab	Local Agency Bridge Nbr.:	Culvert: N/A
List:		Postings:

NBI Deck: 6 Super: 6 Sub: 6 Chan: 7 Culv: N  
 Open, Posted, Closed: A - Open  
 MN Scour Code: I - LOW RISK

Appraisal Ratings - Approach: 7 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 80.2

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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038	Top of Concrete Slab (No Overlay - Uncoated Rebar)	2	Routine	09/14/2016	2734 SF	0	2734	0	0	0
			Routine	09/19/2014	2734 SF	0	2734	0	0	0

Notes: [2010-2014] There is a total of 250 LF of minor- moderate but numerous cracks in the concrete slab with spalls present.  
 [2008] There is a total of 205 LF of minor cracking of the concrete slab.  
 [2010-2014] There are 3- 41' longitudinal cracks on the deck. Deck also contains a diagonal crack @ NW & SW corners, 2 diagonal cracks @ SE corner and 3 diagonal cracks @ NE corner. [2006-2014] Distress is less than 2%.  
 [2001-2004] 2 minor cracks at west edge. Minor cracking present in east 1/2 with spalling.  
 Deck was constructed with full depth concrete. No low slump overlay. Reinforcement has 3" of concrete cover.

215	Reinforced Concrete Abutment	2	Routine	09/14/2016	141 LF	0	140	1	0	N/A
			Routine	09/19/2014	141 LF	0	140	1	0	N/A

Notes: [2014] There is graffiti on the north abutment.  
 [2014] There are major spall at the SW corner. and 6"X3" at SW corner.  
 [2014] There are major spalls at the SE corner. 6"X2" at upper SE corner and 6"X3" at lower SE corner.  
 [2010-2012] There are major spalls at the SE corner. One at upper SE corner and one at lower SE corner.  
 [2008-2014] There is moderate cracking @ abutment seats at all 4 corners.  
 [2008-2014] There is graffiti on the south abutment.  
 [2001-2014] Abutments have minor to moderate vertical and horizontal cracking w/efflorescence.  
 [2006] There is minor spalling at SE corner.

301	Poured Deck Joint	2	Routine	09/14/2016	141 LF	0	0	141	N/A	N/A
			Routine	09/19/2014	141 LF	0	0	141	N/A	N/A

Notes: [2006-2014] Centerline joints of both approach panels need replacement. No joints in deck.

321	Concrete Approach Slab-Concrete Wearing Surface	2	Routine	09/14/2016	2 EA	0	0	2	0	N/A
			Routine	09/19/2014	2 EA	0	0	2	0	N/A

Notes: [2010-2014] Bituminous patches are letting loose. There is significant deterioration of concrete at joints adjacent to deck.  
 [2012-2014] Rehabilitation of the concrete adjacent to deck joints is recommended.  
 [2010] Both slabs have moderate cracking & spalling.  
 [2001-2008] Both slabs have minor cracking & spalling.  
 [2004-2010] There is moderate deterioration of concrete at joints adjacent to deck.

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
331	Reinforced Concrete Bridge Railing	2	Routine	09/14/2016	82 LF	0	82	0	0	N/A
			Routine	09/19/2014	82 LF	0	82	0	0	N/A
Notes: [2010-2014] The west rail contains 4 vertical cracks with moderate spalls. [2010-2014] The east rail contains vertical cracking with numerous moderate size spalls. No exposed rebar. [2008] There are moderate spalls on the east side concrete railing. [2001-2008] Minor vertical cracks with spalls present.										
358	Concrete Deck Cracking Smart Flag	2	Routine	09/14/2016	1 EA	0	1	0	0	N/A
			Routine	09/19/2014	1 EA	0	1	0	0	N/A
Notes: [2010-2014] There are numerous minor to moderate cracks in the concrete deck (approximately 250 LF). [2002-2006] Minor cracking.										
359	Underside of Concrete Deck Smart Flag	2	Routine	09/14/2016	1 EA	0	0	1	0	0
			Routine	09/19/2014	1 EA	0	0	1	0	0
Notes: [2014] There are 10 longitudinal cracks across the bridge + diagonal cracking at sides. Approximately 10 X L= 300 LF of cracks. [2010-2014] Moderate cracking w/efflorescence [2010-2012] There are 6 longitudinal cracks across the bridge + diagonal cracking at sides. Approximately 6 X L= 240 LF of cracks. [2002-2008] Cracking with efflorescence underside the deck is light. [2004] There are three longitudinal cracks across the bridge and diagonal cracking near corners. Approximately 5 X L = 200 LF of cracks.										
387	Reinforced Concrete Wingwall	2	Routine	09/14/2016	4 EA	0	3	1	0	N/A
			Routine	09/19/2014	4 EA	0	3	1	0	N/A
Notes: [2014] There is 2-1.5' horizontal cracks in NW WW [2004-2014] There is minor diagonal cracking at bridge seats all four corners. The SE WW contains some minor cracking w/spalling at expansion joint. [2010-2014] SW wingwall at expansion joint has separation of 0.1' and wing wall section to the south has dropped 1/2". [2004-2012] There is a 10' diagonal crack at the SW corner.										
964	Critical Finding Smart Flag	2	Routine	09/14/2016	1 EA	1	0	N/A	N/A	N/A
			Routine	09/19/2014	1 EA	1	0	N/A	N/A	N/A
Notes: DO NOT DELETE THIS CRITICAL FINDING SMART FLAG.										
981	Signing	2	Routine	09/14/2016	1 EA	1	0	0	0	0
			Routine	09/19/2014	1 EA	1	0	0	0	0
Notes: [2012-2014] All appropriate signing is present.										
982	Approach Guardrail	2	Routine	09/14/2016	1 EA	0	1	0	N/A	N/A
			Routine	09/19/2014	1 EA	0	1	0	N/A	N/A
Notes: [2008-2014] There are moderate damage to the guardrail system. [2006-2014] Guardrail system is in place and functioning properly. [2004] There is collision damage to the SE end of the SE guardrail. Need to repair guardrail.										
984	Deck & Approach Drainage	2	Routine	09/14/2016	1 EA	1	0	0	N/A	N/A
			Routine	09/19/2014	1 EA	1	0	0	N/A	N/A
Notes: [2002-2014] Drainage system is operating properly.										

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
985	Slopes & Slope Protection	2	Routine	09/14/2016	1 EA	0	1	0	N/A	N/A
			Routine	09/19/2014	1 EA	0	1	0	N/A	N/A
Notes: [2014] Moderate erosion at the NW corner [2014] Rip rap is filled with sediment [2006-2014] There is some movement of riprap south side of Rice Creek. [2012-2014] Riprap is operating as intended. Some settlement both sides. The north side has been grouted. [2012-2014] Also settlement of the concrete wall south side of Rice Creek at the SW corner.										

986	Curb & Sidewalk	2	Routine	09/14/2016	1 EA	0	1	0	N/A	N/A
			Routine	09/19/2014	1 EA	0	1	0	N/A	N/A

Notes: [2014] Sidewalk under bridge at the west and east ends of concrete sidewalk was patched with bituminous.  
 [2010-2014] There is 10 lf of major cracking @ SW corner under bridge.  
 [2008-2012] There is settlement north side of sidewalk under bridge with cracks at west and east ends of concrete sidewalk.  
 [2012] The sidewalk settlement is 4" at south abutment and pulling away from abutment 2".  
 [2008-2014] Sidewalk on bridge is on the west side. Sidewalk contains moderate spalling & diagonal cracking at ends.  
 [2002-2014] Sidewalk under bridge shows sign of movement at abutment. [2002-2006] No additional movement.

General Notes: [2016] Bridge safety inspection was completed by B. Essler, D. Bodelson & R. Bussiere on 9/14/2016.  
 [2014] Bridge safety inspection was completed by B. Essler & D. Bodelson on 9/19/2014.  
 [2012] Bridge safety inspection was completed by B. Wieman, D. Bodelson & B. Essler on 9/19/2012.  
 [2002-2006] Bituminous approach roadway to concrete approach panels have settled & need patching.  
 [2010] Bridge safety inspection was completed by B. Wieman 9/29/2010.  
 [2008] Bridge safety inspection was completed by B. Paine & B. Wieman 9/11/2008.  
 [2002-2008] Bituminous approach roadway to concrete approach panels have settled & need patching.  
 Bridge safety inspection was completed by Bret Wieman 10/03/2006.  
 [2008] Graffiti is on the south abutment [2006] Graffiti is on the abutments and wingwalls.  
 [2006-2008] There is some cracking of the sidewalk under the bridge east and west sides.  
 Bridge #62566 was constructed in 1993.

58. Deck NBI: Numerous moderate numerous cracks with spalls.

36A. Brdg Railings NBI:

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail  
Terminal NBI:

59. Superstructure NBI: Numerous moderate cracking

60. Substructure NBI: Moderate cracking with 4 spalls

61. Channel NBI: Minor erosion

62. Culvert NBI: Bridge

71. Waterway Adeq NBI: Greater than 3' of freeboard

72. Appr Roadway  
Alignment NBI: No speed reduction required

Inventory Notes:

Brian Essler  
Inspector's Signature

Nicklaus Fischer  
Reviewer's Signature

# MINNESOTA BRIDGE INSPECTION REPORT

01/06/2017

Inspector: CO Bridge

## BRIDGE 62566 CSAH 51(LEXINGTON) OVER RICE CREEK

County: Ramsey	Location: 0.2 MI S OF JCT CSAH 1	Length: 41.0 ft.
City: Shoreview	Route: 04 - CSAH 51 Ref. Pt.: 015+00.330	Deck Width: 66.8 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2250 sq. ft. / 2%
Section: 3 Township: 030N Range: 23W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 1 - Concrete 1 - Slab	Local Agency Bridge Nbr.:	Culvert: N/A
List:		Postings:
NBI Deck: 6 Super: 6 Sub: 6 Chan: 7 Culv: N	Open, Posted, Closed: A - Open	
	MN Scour Code: 1 - LOW RISK	

Appraisal Ratings - Approach: 7 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 80.2

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
38	Reinforced Concrete Slab	Routine	09/14/2016	2739 SF	2439	0	300	0
		Migrated Values		2739 SF	2439	0	300	0
<p>Notes: [2016] There are moderate spalls at the SE corner underside of the deck                      [2014-2016] There are 10 longitudinal cracks across the bridge + diagonal cracking at sides. Approximately 10 X L= 300 LF of cracks.                      [2010-2016] Moderate cracking w/efflorescence                      [2010-2012] There are 6 longitudinal cracks across the bridge + diagonal cracking at sides. Approximately 6 X L= 240 LF of cracks.                      [2002-2008] Cracking with efflorescence underside the deck is light.                      [2004] There are three longitudinal cracks across the bridge and diagonal cracking near corners. Approximately 5 X L = 200 LF of cracks.</p>								
510	- Wearing Surfaces	Routine	09/14/2016	2250 SF	2205	0	45	0
		Migrated Values		2250 SF	2205	0	45	0
<p>Notes: [2010-2016] There is a total of 250 LF of minor- moderate but numerous cracks in the concrete slab with spalls present.                      [2010-2016] There are 3- 41' longitudinal cracks on the deck. Deck also contains a diagonal crack @ NW &amp; SW corners, 2 diagonal cracks @ SE corner and 3 diagonal cracks @ NE corner. [2006-2014] Distress is less than 2%.                      [2008] There is a total of 205 LF of minor cracking of the concrete slab.                      [2001-2004] 2 minor cracks at west edge. Minor cracking present in east 1/2 with spalling.                      Concrete Slab with Uncoated Rebar. Deck was constructed with full depth concrete. No low slump overlay. Reinforcement has 3" of concrete cover.</p>								
215	Reinforced Concrete Abutment	Routine	09/14/2016	181 LF	0	170	11	0
		Migrated Values		181 LF	0	170	11	0
<p>Notes: [2016] There are 1' X 9" spall at the SW corner.                      [2016] There are major spalls at the SE corner. 6"X2' at upper SE corner and 6"X3" at lower SE corner.                      [2016] There are 1' X 6" spall at the NW corner.                      [2008-2016] There is moderate cracking @ abutment seats at all 4 corners.                      [2008-2016] There is graffiti on the south abutment.                      [2001-2016] Abutments have minor to moderate vertical and horizontal cracking w/efflorescence.                      [2014-2016] There is graffiti on the north abutment.</p> <p>Wingwall notes: [2014-2016] There is 2-1.5' horizontal cracks in NW WW                      [2004-2016] There is minor diagonal cracking at bridge seats all four corners. The SE WW contains some minor cracking w/spalling at expansion joint.                      [2010-2016] SW wingwall at expansion joint has separation of 0.1' and wing wall section to the south has dropped 1/2". [2004-2012] There is a 10' diagonal crack at the SW corner.                      [2016] Migrator added 40 LF to abutment quantity to account for wingwalls (CS1:0 CS2:30 CS3:10 CS4:0).</p> <p>[2014] There are major spall at the SW corner. and 6"X3" at SW corner.                      [[2010-2012] There are major spalls at the SE corner. One at upper SE corner and one at lower SE corner.                      [2006] There is minor spalling at SE corner.</p>								
301	Pourable Joint Seal	Routine	09/14/2016	141 LF	0	141	0	0
		Migrated Values		141 LF	0	141	0	0
<p>Notes: [2016] B3 repairs were done on all joints on both approach panels                      [2006-2014] Centerline joints of both approach panels need replacement. No joints in deck.</p>								

**BRIDGE 62566 CSAH 51(LEXINGTON) OVER RICE CREEK**

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
321	Reinforced Concrete Approach Slab	Routine	09/14/2016	2080 SF	0	2080	0	0
		Migrated Values		2080 SF	0	2080	0	0
	Notes: [2016] B3 repairs were done on all joints on both approach panels [2016] there is moderate cracking and spalling on both approach panels. [2016] Migrator assumed an approach slab length of 20FT and used the inventory quantity of 52FT for the width. [2010-2014] Bituminous patches are letting loose. There is significant deterioration of concrete at joints adjacent to deck. [2012-2014] Rehabilitation of the concrete adjacent to deck joints is recommended. [2010] Both slabs have moderate cracking & spalling. [2001-2008] Both slabs have minor cracking & spalling. [2004-2010] There is moderate deterioration of concrete at joints adjacent to deck.							
331	Reinforced Concrete Bridge Railing	Routine	09/14/2016	82 LF	0	82	0	0
		Migrated Values		82 LF	0	82	0	0
	Notes: [2016] The west rail contains 5 vertical cracks with moderate spalls. [2010-2014] The west rail contains 4 vertical cracks with moderate spalls. [2010-2014] The east rail contains vertical cracking with numerous moderate size spalls. No exposed rebar. [2008] There are moderate spalls on the east side concrete railing. [2001-2008] Minor vertical cracks with spalls present.							
800	Critical Deficiencies or Safety Hazards	Routine	09/14/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
	Notes: NO CRITICAL FINDINGS OBSERVED DURING THE LAST INSPECTION.							
810	Concrete Decks - Cracking & Sealing	Routine	09/14/2016	300 LF	0	300	0	0
		Migrated Values		300 LF	0	300	0	0
	Notes: [2014-2016] There are 10 longitudinal cracks across the bridge + diagonal cracking at sides. Approximately 10 X L= 300 LF of cracks. [2010-2014] There are numerous minor to moderate cracks in the concrete deck (approximately 250 LF). [2002-2006] Minor cracking.							
891	Other Bridge Signing	Routine	09/14/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
	Notes: [2012-2016] All appropriate signing is present.							
892	Slopes & Slope Protection	Routine	09/14/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
	Notes: [2014-2016] Moderate erosion at the NW corner [2014-2016] Rip rap is filled with sediment [2006-2016] There is some movement of riprap south side of Rice Creek. [2012-2016] Riprap is operating as intended. Some settlement both sides. The north side has been grouted. [2012-2016] Also settlement of the concrete wall south side of Rice Creek at the SW corner.							
893	Guardrail	Routine	09/14/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0
	Notes: [2016] SE end has been replaced [2008-2016] There are moderate damage to the guardrail system. [2006-2016] Guardrail system is in place and functioning properly. [2004] There is collision damage to the SE end of the SE guardrail. Need to repair guardrail.							
894	Deck & Approach Drainage	Routine	09/14/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0
	Notes: [2002-2016] Drainage system is operating properly.							

**BRIDGE 62566 CSAH 51(LEXINGTON) OVER RICE CREEK**

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
895	Sidewalk, Curb, & Median	Routine	09/14/2016	1 EA	0	1	0	0
		Migrated Values		1 EA	0	1	0	0

Notes: [2016] Sidewalk under bridge has moderate crack at centerline of sidewalk.  
 [2008-2016] Sidewalk on bridge is on the west side. Sidewalk contains moderate spalling & diagonal cracking at ends.  
 [2010-2016] There is 10 lf of major cracking @ SW corner under bridge.  
 [2014] Sidewalk under bridge at the west and east ends of concrete sidewalk was patched with bituminous.  
 [2012] The sidewalk settlement is 4" at south abutment and pulling away from abutment 2".  
 [2008-2012] There is settlement north side of sidewalk under bridge with cracks at west and east ends of concrete sidewalk.  
 [2002] Sidewalk under bridge shows sign of movement at abutment. [2002-2006] No additional movement.

900	Protected Species	Routine	09/14/2016	1 EA	1	0	0	0
		Migrated Values		1 EA	1	0	0	0

Notes: No protected species living found on this structure.

General Notes: [2016] Bridge safety inspection was completed by B. Essler, D. Bodelson & R. Bussiere on 9/14/2016.  
 [2014] Bridge safety inspection was completed by B. Essler & D. Bodelson on 9/19/2014.  
 [2012] Bridge safety inspection was completed by B. Wieman, D. Bodelson & B. Essler on 9/19/2012.  
 [2002-2006] Bituminous approach roadway to concrete approach panels have settled & need patching.  
 [2010] Bridge safety inspection was completed by B. Wieman 9/29/2010.  
 [2008] Bridge safety inspection was completed by B. Paine & B. Wieman 9/11/2008.  
 [2002-2008] Bituminous approach roadway to concrete approach panels have settled & need patching.  
 Bridge safety inspection was completed by Bret Wieman 10/03/2006.  
 [2008] Graffiti is on the south abutment [2006] Graffiti is on the abutments and wingwalls.  
 [2006-2008] There is some cracking of the sidewalk under the bridge east and west sides.  
 Bridge #62566 was constructed in 1993.

58. Deck NBI: Numerous moderate numerous cracks with spalls.

36A. Brdg Railings NBI:

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail Terminal NBI:

59. Superstructure NBI: Numerous moderate cracking

60. Substructure NBI: Moderate cracking with 4 spalls

61. Channel NBI: Minor erosion

62. Culvert NBI: Bridge

71. Waterway Adeq NBI: Greater than 3' of freeboard

72. Appr Roadway Alignment NBI: No speed reduction required

Inventory Notes:

Brian Essler  
 Inspector's Signature

Nicklaus Fischer  
 Reviewer's Signature

# Pictures



Photo 1 - cracks under deck north side cl



Photo 2 - cracks under deck south side cl

# Pictures



Photo 3 - cracks under deck south side cl2



Photo 4 - cracks under deck south side cl3

# Pictures



Photo 5 - cracks under deck west side



Photo 6 - east concrete rail 2

# Pictures



Photo 7 - east side



Photo 8 - looking north

# Pictures



Photo 9 - looking south

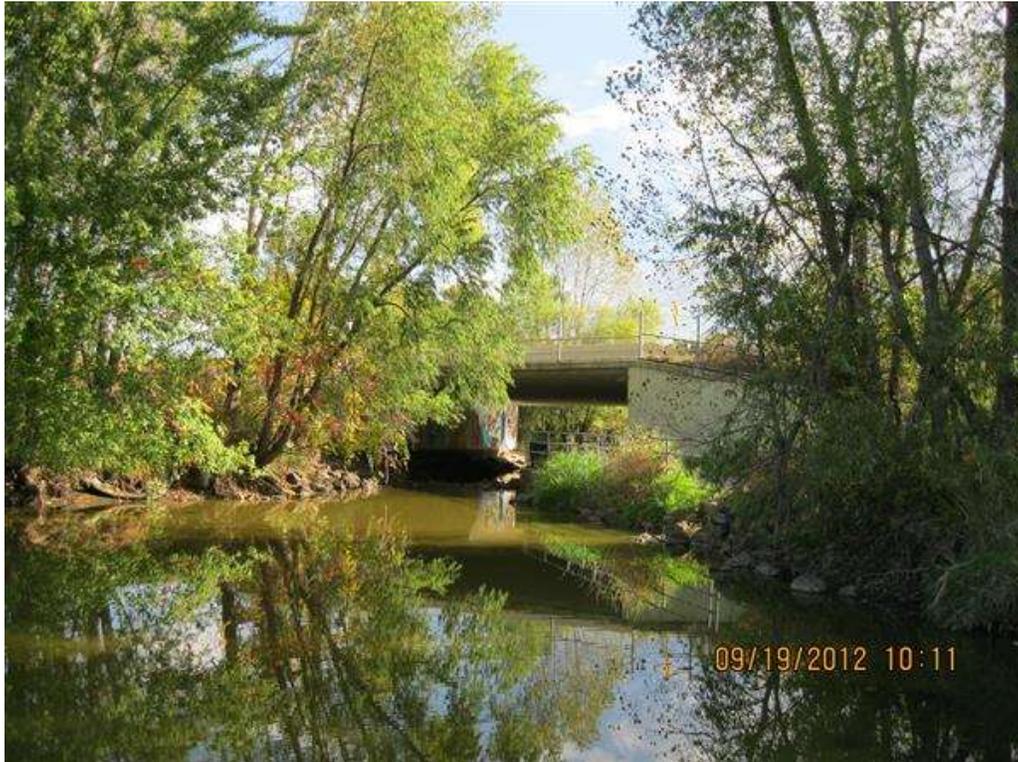


Photo 10 - west side

# Pictures



Photo 11 - west side 2



Photo 12 - B3 repair 2016

# Pictures



Photo 13 - B3 repair1 2016



Photo 14 - B3 repair2 2016

# Pictures



Photo 15 - SE Guardrail 2016



Photo 16 - North approach panel 2016

# Pictures



Photo 17 - South approach panel 2016