

**2015 ROUTINE  
BRIDGE INSPECTION REPORT**



**BRIDGE # 62554  
CSAH 30(LARPENT A) over DNR TRAIL**

**DISTRICT:** Metro

**COUNTY:** Ramsey

**CITY/TOWNSHIP:** Maplewood

**Date(s) of Inspection:** 10/12/2015

**Equipment Used:**

**Owner:** County Highway Agency

**Inspected By:** Essler, Brian

**Report Written By:** Brian Essler

**Report Reviewed By:** Nicklaus Fischer

**Final Report Date:** 01/07/2016

MnDOT Bridge Office  
3485 Hadley Avenue North  
Oakdale, MN 55128



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# MnDOT Structure Inventory Report

Bridge ID: 62554

CSAH 30(LARPENT A)

over DNR TRAIL

Date: 01/07/2016

GENERAL			
<b>Agency Br. No.</b>			
District Metro			
<b>Maint. Area</b>		<b>Crew</b>	
County 062 - Ramsey			
City Maplewood			
Township			
Desc. Loc. 0.4 MI E OF JCT TH 35E			
Sect., Twp., Range 20 - 029N - 22W			
<b>Latitude</b>		<b>Sec</b>	
Deg 44	Min 59	30.85	
<b>Longitude</b>		<b>Sec</b>	
Deg 93	Min 4	49.65	
Custodian 02 - County Highway Agency			
Owner 02 - County Highway Agency			
<b>BMU Agreement</b>			
<b>Year Built</b>		1992	
<b>MN Year Reconstructed</b>			
<b>FHWA Year Reconstructed</b>			
<b>MN Temporary Status</b>			
Bridge Plan Location 3 - COUNTY			
<b>Date Opened to Traffic</b>			
On-Off System 1 - ON			
Legislative District 66A			

STRUCTURE			
<b>Service On</b> 1 - Highway			
<b>Service Under</b> 3 - Pedestrian - bicycle			
<b>Main Span Type</b>			
1 - Concrete	08 - Rigid Frame		
<b>Main Span Detail</b>			
<b>Appr. Span Type</b>			
<b>Appr. Span Detail</b>			
<b>Skew</b>	44	R	
<b>Culvert Type</b>			
<b>Barrel Length</b>	ft.		
<b>Canterlever ID</b>			

NUMBER OF SPANS			
<b>MAIN:</b>	1	<b>APPR:</b>	0
<b>TOTAL:</b>	1		
<b>Main Span Length</b>	33.3	ft.	
<b>Structure Length</b>	38.4	ft.	
<b>Deck Width (Out-to-Out)</b>	81.0	ft.	
<b>Deck Material</b>	1 - Concrete Cast-in-Place		
<b>Wear Surf Type</b>	6 - Bituminous		
<b>Wear Surf Install Year</b>			
<b>Wear Course/Fill Depth</b>	5.20	ft.	
<b>Deck Membrane</b>	0 - None		
<b>Deck Rebars</b>	1 - Epoxy Coated Reinforcing		
<b>Deck Rebars Install Year</b> 1992			
<b>Structure Area (Out-to-Out)</b>	3110	sq. ft.	
<b>Roadway Area (Curb-to-Curb)</b>	2002	sq. ft.	
<b>Sidewalk Width</b>	Lt 0.00	ft.	Rt 0.00
<b>Curb Height</b>	Lt 0.50	ft.	Rt 0.50
<b>Rail Type</b>	Lt 28	Rt 28	

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> 30	
<b>Roadway Name or Description</b>			
CSAH 30			
<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> 006+00.230			
<b>Detour Length</b>	1.0	mi	
<b>Lanes</b>	On 2	Under 0	
	ADT 9960	Year 2008	
<b>HCACT</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>	52.00	ft.	ft.
<b>Vertical Clearance</b>		ft.	ft.
<b>Max. Vert. Clear.</b>		ft.	ft.
<b>Horizontal Clear.</b>		ft.	ft.
<b>Lateral Clearance</b>		ft.	ft.
<b>Appr. Surface Width</b>	52.0	ft.	
<b>Bridge Roadway Width</b>	52.0	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>	1 - SPRD SOIL
<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>	97.1
<b>Routine Inspection Date</b>	10/12/2015
<b>Routine Inspection Frequency</b>	24
<b>Inspector Name</b>	County, Ramsey
<b>Status</b>	A - Open

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

NBI APPRAISAL RATINGS	
<b>Structure Evaluation</b> 7	
<b>Deck Geometry</b>	9
<b>Underclearances</b>	N
<b>Water Adequacy</b>	N - Not Applicable
<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>	0 - SUBSTANDARD

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

WATERWAY			
<b>Drainage Area (sq. mi.)</b>			
<b>Waterway Opening</b>		sq. ft.	
<b>Navigation Control</b>	N - Not applicable, no 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>	A - NON WATER'	<b>Year</b>	

CAPACITY RATINGS			
<b>Design Load</b>	9 - HS 25 (OR GREATER)		
<b>Operating Rating</b>	5 - NRAP	74.9	
<b>Inventory Rating</b>	5 - NRAP	25.0	
<b>Posting VEH:</b>	<b>SEMI:</b>	<b>DBL:</b>	
<b>Rating Date</b>	10/17/1991		

MnDOT Permit Codes	
<b>A:</b>	N - N/A
<b>B:</b>	N - N/A
<b>C:</b>	N - N/A

# MnDOT Structure Inventory Report

## Additional Roadways

**Bridge ID:** 62554

CSAH 30(LARPENT A) over DNR TRAIL

**Date:** 01/07/2016

# MnDOT BRIDGE INSPECTION REPORT

01/07/2016

Inspector: County, Ramsey

**BRIDGE 62554 CSAH 30(LARPENT A) OVER DNR TRAIL**

**ROUTINE INSP. DATE: 10/12/2015**

County: Ramsey	Location: 0.4 MI E OF JCT TH 35E	Length: 38.4 ft.
City: Maplewood	Route: 04 - CSAH 30 Ref. Pt.: 006+00.230	Deck Width: 81.0 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2002 sq. ft. / %
Section: 20 Township: 029N Range: 22W Maint. Area:		Paint Area/ Pct. Unsnd: sq. ft. / %
Span Type: 1 - Concrete 07 - Frame (except frame culverts)	Local Agency Bridge Nbr.:	Culvert: N/A
List:		Postings:
NBI Deck: 6 Super: 7 Sub: 7 Chan: N Culv: N		

Open, Posted, Closed: A - Open  
MN Scour Code: A - NON WATERWAY

Appraisal Ratings - Approach: 7 Waterway: N		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 97.1

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
052	Top of Concrete Slab (No Overlay - Epoxy Rebar)	1	Routine	10/12/2015	3111 SF	0	3111	0	0	0
			Routine	10/15/2013	3111 SF	0	3111	0	0	0

Requires Monitoring                       Monitored

Notes: Moderate cracking of the bituminous 2007-2015.  
Select granular borrow with bituminous roadway was placed on top of bridge. Difficult to determine the condition of the deck 2005-2015.  
Bituminous pavement was milled 1 1/2" in preparation for overlay at the time of inspection 2007.

145	Masonry, Other or Combination Material Arch	2	Routine	10/12/2015	112 LF	0	112	0	0	N/A
			Routine	10/15/2013	112 LF	0	112	0	0	N/A

Requires Monitoring                       Monitored

Notes: Minor paint failure on east & west sides 2013-2015.  
Minor spalls on east side 2013-2015.  
Graffiti has been painted over 2013.  
There are 7 minor vertical cracks east side & 7 minor vertical cracks west side 14 X 14' = 196 LF 2013-2015.  
Minor deterioration - some vertical cracking and efflorescence present 2003-2011.  
There are 6 minor vertical cracks east side & 7 minor vertical cracks west side 13 X 14' = 182 LF 2005-2011.

333	Masonry, Other or Combination Material Railing	2	Routine	10/12/2015	297 LF	0	297	0	N/A	N/A
			Routine	10/15/2013	297 LF	0	297	0	N/A	N/A

Requires Monitoring                       Monitored

Notes: Railing on both sides have minor - moderate spalls cracks and spalls w/efflorescence 1997-2015.  
Paint on metal railing is chalking and flaking off 2005-2015.  
Minor deterioration of cork in joints 2013-2015.  
Railing is combination conc. parapet and metal railing. 154 LF north side and 143 LF south side.

## 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
359	Underside of Concrete Deck Smart Flag	2	Routine	10/12/2015	1 EA	0	1	0	0	0
			Routine	10/15/2013	1 EA	0	1	0	0	0

 Requires Monitoring Monitored

Notes: There are 175 LF of unsealed minor to moderate size cracks. Distressed area <2%. 2015  
Underside has minor - moderate cracks. (4 X 24') + (8 X 8') = 160 LF of cracks 2007-2013. Distressed area <2% 2007-2013.  
Underside has 4 - 24' cracks w/efflorescence across span. Approximately 100 feet of cracks 2005.  
Also rusting where shoe rested on forming 1995-2013.  
There also is leaching of the south construction joint 2003-2015.

387	Reinforced Concrete Wingwall	2	Routine	10/12/2015	4 EA	0	4	0	0	N/A
			Routine	10/15/2013	4 EA	0	4	0	0	N/A

 Requires Monitoring Monitored

Notes: Some corrosion @ SE corner 2015  
Abutment sidewalls south side caulked. 2015  
Abutment wings have minor vertical & horizontal cracking & spalling w/efflorescence 2003-2015.  
Spalling on exposed aggregate @ all 4 corners 2007-201.  
Abutment sidewalls south side need caulking. Some corrosion @ SE corner 2003-2013.  
Minor deterioration of cork in joints 2013.  
Graffiti has been painted over 2013.

407	Bituminous Approach Roadway	1	Routine	10/12/2015	2 EA	0	2	0	0	N/A
			Routine	10/15/2013	2 EA	0	2	0	0	N/A

 Requires Monitoring Monitored

Notes: No settlement but bituminous approach has moderate cracking 2005-2015.  
Bituminous mill & overlay operation in progress at the time of inspection 2007.

964	Critical Finding Smart Flag	2	Routine	10/12/2015	1 EA	1	0	N/A	N/A	N/A
			Routine	10/15/2013	1 EA	1	0	N/A	N/A	N/A

 Requires Monitoring Monitored

Notes: DO NOT DELETE THIS CRITICAL FINDING SMART FLAG.

981	Signing	2	Routine	10/12/2015	1 EA	1	0	0	0	0
			Routine	10/15/2013	1 EA	1	0	0	0	0

 Requires Monitoring Monitored

Notes: All appropriate signing in place 2003-2015.  
New horizontal clearance signs in place 2005.

## 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
982	Approach Guardrail	2	Routine	10/12/2015	1 EA	1	0	0	N/A	N/A
			Routine	10/15/2013	1 EA	1	0	0	N/A	N/A

 Requires Monitoring Monitored

Notes: Twisted end treatment on all 4 corners. speed limit 35 MPH 2015  
Guardrail system in place 2003-2015.

984	Deck & Approach Drainage	2	Routine	10/12/2015	1 EA	1	0	0	N/A	N/A
			Routine	10/15/2013	1 EA	1	0	0	N/A	N/A

 Requires Monitoring Monitored

Notes: Drainage runs to the west and is functioning properly 2005-2015.

985	Slopes & Slope Protection	1	Routine	10/12/2015	1 EA	0	1	0	N/A	N/A
			Routine	10/15/2013	1 EA	0	1	0	N/A	N/A

 Requires Monitoring Monitored

Notes: There is some settlement of material at behind all wing walls 2011-2015.  
There is some major erosion @ NW corner behind the wing wall 2009-2015. Material has been deposited on the DNR trail.  
Requires maintenance.  
Moderate erosion @ NW corner 2007.  
Minor erosion @ NW corner 2003-2005.

General Notes: 2013 Bridge safety inspection was conducted by Brian Essler & Dan Bodelson on 10/15/2015.  
2013 Bridge safety inspection was conducted by Dan Bodelson & Brian Essler on 10/14/2013.  
2011 Bridge safety inspection was conducted by B. Wieman on 10/14/2011.  
2009 Bridge safety inspection was completed by B. Wieman on 8/14/2009.  
2007 Bridge safety inspection was conducted by B. Wieman 8/3/2007.  
Bridge safety inspection was conducted by Bret Wieman 9/9/2005.  
1 1/2" bituminous mill & overlay by Ramsey County Maintenance Department 2007.  
Graffiti is on both abutments and all wing walls 2005-2007.  
Concrete rigid frame was built in 1992.

58. Deck NBI: Moderate cracking with leaching

36A. Brdg Railings NBI: Type F concrete railing

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail design speed 40 MPH. Twisted end treatment  
Terminal NBI:

59. Superstructure NBI: Nonstructural cracking

60. Substructure NBI: Minor cracking and isolated spalls

61. Channel NBI: No waterway

62. Culvert NBI: Bridge

71. Waterway Adeq NBI: No waterway

72. Appr Roadway Alignment NBI: Minor sight distance problems with no speed reduction

Inventory Notes:

Structure Unit:

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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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Brian Essler  
Inspector's Signature

Nicklaus Fischer  
Reviewer's Signature



# Pictures



Photo 1 -



Photo 2 -

# Pictures



Photo 3 -



Photo 4 -

# Pictures



Photo 5 -



Photo 6 -

# Pictures



Photo 7 -



Photo 8 -

# Pictures



Photo 9 -



Photo 10 -

# Pictures



Photo 11 -



Photo 12 -



1. erosion @ NW wing wall.JPG



2. erosion @ NW wingwall-2.JPG



3. joint in SW wing wall.JPG



4. joint in SW wing wall-2.JPG



5. looking east.JPG



6. looking east-2.JPG



7. looking west.JPG



8. NE wing wall.JPG



9. north side.JPG



10. NW wing wall.JPG



11. railing south side.JPG



12. south side.JPG

## Culvert

Bridge No.: 62554

<b>Culvert</b>
----------------

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
<b>Culvert Overall:</b>	<b>NBI Item 62</b>	<u>N</u>	Bridge

**MnDOT Scour Code:** A - NON WATERWAY

<b>Waterway Inspection</b>
----------------------------

Item No.	Yes, No, NA or Not Visible	Description
1.	<u>        </u>	Is there a significant build-up of debris?
2.	<u>        </u>	Is there erosion of the embankment around the headwalls?
3.	<u>        </u>	Is there any indication of cracking or settlement of the culvert barrel or headwalls?
4.	<u>        </u>	Is there shifting of the channel alignment or erosion of the stream banks? Also are there cracks in the soil of the banks parallel to the stream?
5.	<u>        </u>	Do scour measurements indicate that the streambed is below the bottom of the cutoff walls at the ends of the culvert?
6.	<u>        </u>	Is there evidence of distress in the roadway or approaches such as cracks in the pavement and sags in the guardrail or roadway? Also, is there cracking, erosion, or failure of the side slopes at or adjacent to the culvert?
7.	<u>        </u>	Is there an indication of "piping" of water along the outside of the culvert such as cavities adjacent to the barrel?
8.	<u>        </u>	Is the culvert without a bottom and scour measurements indicate that the streambed is below the plan streambed elevations?
9.	<u>        </u>	Has the riprap or other scour protection been damaged or otherwise made ineffective?
10.	<u>        </u>	If the culvert was designed to be buried (fill inside the culvert), is the material still in the barrel?

**Notes:**

- Streambed sounding data is to be documented.
- Soundings of the streambed should be done at each end of the culvert. If Items #5 or #8 are "Yes", then a streambed profile of the scoured area should be done.
- If "Yes" is the answer to any items on the checklist, notify the Program Administrator for further instructions.

Comments:

Completed On \_\_\_\_\_ By \_\_\_\_\_



### Channel

Bridge No.: 62554

#### Channel

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
<b>Channel Overall:</b>	<b>NBI Item 61</b>	N	No waterway

#### Bank Protection/Revetment

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
<b>Upstream Bank Protection:</b>	_____	_____	_____
<b>Downstream Bank Protection:</b>	_____	_____	_____
<b>Bridge Revetment:</b>	_____	_____	_____
<b>MnDOT Scour Code:</b>	<u>A - NON WATERWAY</u>		

#### Underwater Inspection

**Underwater Inspection By Divers:** \_\_\_\_\_

**No. of Piers To Be Inspected:** \_\_\_\_\_

#### Waterway Characteristics

<b>Reference Point:</b> _____	<b>High Water Elev.:</b> _____	<b>Current Water Elev.:</b> _____
<b>Pile Tip Elev.:</b> _____	<b>Low Water Elev.:</b> _____	<b>Current Streambed Elev.:</b> _____
	<b>Scour Hole Elev.:</b> _____	<b>Current Scour Hole Elev.:</b> _____

#### Waterway Inspection: (Not applicable for culverts)

Item No.	Yes, No, NA or Not Visible	Description
1.	_____	Is there a significant build-up of debris?
2.	_____	Is there a change in the horizontal alignment of the handrail or structure members such as beams?
3.	_____	Is there any indication of vertical movement of the superstructure?
4.	_____	Is there shifting of the channel alignment or erosion of the stream banks? Also are there cracks in the soil of the banks parallel to the stream?
5.	_____	Is there a significant change in the alignment of the exterior bearings?
6.	_____	Are there cracks or other signs of distress in the approach pavement?
7.	_____	Is the water currently on the superstructure?
8.	_____	Are the slopes unstable?
9.	_____	Do scour measurements indicate: (place a check by all that apply.)
	<input type="checkbox"/>	A. that the streambed is two or more feet below the bottom of pier footings which are supported on piles?
	<input type="checkbox"/>	B. scour below the bottom of spread footings?
	<input type="checkbox"/>	C. scour below the bottom of high abutment footings?
	<input type="checkbox"/>	D. that the streambed has scoured five feet or more below the original streambed elevation at pier bents?

10. \_\_\_\_\_ Have the scour countermeasures been damaged or otherwise made ineffective?

**Notes:**

- Streambed sounding data is to be documented.

- Per MnDOT Bridge Inspection Manual Section 2.2.5, at bridges that require x-sections, take channel x-sections, along the upstream and/or downstream face of the bridge.

- If "Yes" is the answer to any items on the checklist, notify the Program Administrator for further instructions.

Comments:

Completed On \_\_\_\_\_ By \_\_\_\_\_

## Scour POA

Bridge No.: 62554

<b>Scour POA</b>
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1. Is POA on File? \_\_\_\_\_
2. Date of most recent POA: \_\_\_\_\_
3. Here is a link to MnDOT's Bridge Scour website for other resources:
  - <http://www.dot.state.mn.us/bridge/hydraulics/scour.html>
  - The Scour POA should be kept in the bridge file and/or uploaded to SIMS using the "Inspection Files" tab.

### Implementation

Scour POAs are required to be implemented by FHWA.

1. Is this POA being implemented? \_\_\_\_\_

# Channel Section

## Upstream

Custom Label	Location	Elevation
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## Downstream

Custom Label	Location	Elevation
--------------	----------	-----------

Distance Measured From:

Elev. of Ref. Pt:

Depth to Water Surface:

WS Elev:

Vertical Datum:

Comments:

Distance Measured From:

Elev. of Ref. Pt:

Depth to Water Surface:

WS Elev:

Vertical Datum:

# Maintenance

Element	Source Code	Work Code	Description	P/R	Priority	Work Order #	Year Due	Last Viewed	Entered	Start Date	Completed
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# BRIDGE STRUCTURAL ASSESSMENT REPORT

## PURPOSE:

This report is a structural assessment of the structure and its ability to carry loads based on conditions identified in the attached bridge inspection report. The assessment is only a cursory review intended to provide guidance as to the relative hazards for structural conditions and deficiencies identified. This report is mandatory for all fracture critical bridges and is completed by the MnDOT Bridge Office upon receipt of the 7 Day FC Report; however, it is an OPTIONAL tool for agencies to utilize at their discretion for all other inspection types.

BRIDGE NO.: 62554	BRIDGE OWNER: County Highway Agency
DATE INSPECTED: 10/12/2015	STRUCTURE TYPE: Concrete Frame (except frame culverts)
FACILITY CARRIED: CSAH 30(LARPENT A)	FEATURES INTERSECTED: DNR TRAIL
TYPE OF INSPECTION: <input checked="" type="checkbox"/> ROUTINE <input type="checkbox"/> FRACTURE CRITICAL <input type="checkbox"/> PINNED ASSEMBLY: <input type="checkbox"/> SPECIAL: <input type="checkbox"/> DAMAGE: <input type="checkbox"/> OTHER:	
<u>Check all that apply:</u>	
Redundancy: <input type="checkbox"/> Load Path <input type="checkbox"/> Structural <input type="checkbox"/> Internal	Connection Type: <input type="checkbox"/> Riveted <input type="checkbox"/> Bolted <input type="checkbox"/> Welded <input type="checkbox"/> Other:

- Was a critical finding identified during this inspection or upon structural review?  Yes  No  
  - If selected "Yes" above, state briefly the finding(s):
- If a critical finding was identified, what is the current status?  Pending  
 Resolved  
 N/A  
  - Briefly state actions taken:
- Does the condition of any bridge component indicate impaired function? Examples of bridge components with impaired function include elements that are: frozen or immovable, out-of-plumb or misaligned, distorted or structurally deformed, excessively deteriorated, cracked, broken, eroded or scoured.  Yes  No

a) If selected "Yes" above, state briefly the component(s) and condition(s):

4. Does the overall condition of the bridge, or any of its components mentioned in Question 3, suggest the need for detailed structural analysis and/or a revised load rating?  Yes  No

a) If selected "Yes", state the reason for this recommendation and indicate a proposed timeframe in accordance with State of Minnesota Rule 8810.9500 (Subpart 2):

5. Based on the structural assessment of these findings, recommendations include:

- Repair/Maintenance       Monitoring Plan  
 Other       Increased Inspection Frequency

Explain recommended actions:

6. Other comments:

**Bridge Office Reviewer**