

**2015 ROUTINE
BRIDGE INSPECTION REPORT**



**BRIDGE # 62537
CSAH 22(KELLER PY) over KOHLMAN CREEK**

DISTRICT: Metro

COUNTY: Ramsey

CITY/TOWNSHIP: Maplewood

Date(s) of Inspection: 11/02/2015

Equipment Used:

Owner: County Highway Agency

Inspected By: Bodelson, Dan

Report Written By: Dan Bodelson

Report Reviewed By: Nicklaus Fischer

Final Report Date: 01/05/2016

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



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MnDOT Structure Inventory Report

Bridge ID: 62537

CSAH 22(KELLER PY)

over KOHLMAN CREEK

Date: 01/05/2016

GENERAL			
Agency Br. No.			
District Metro			
Maint. Area		Crew	
County 062 - Ramsey			
City Maplewood			
Township			
Desc. Loc. 0.2 MI NE OF JCT CSAH 23			
Sect., Twp., Range 4 - 029N - 22W			
Latitude		Sec	
Deg 45	Min 1	21.82	
Longitude		Sec	
Deg 93	Min 3	50.54	
Custodian 02 - County Highway Agency			
Owner 02 - County Highway Agency			
BMU Agreement			
Year Built		1982	
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 55A			

STRUCTURE	
Service On	5 - Highway-pedestrian
Service Under	5 - Waterway
Main Span Type	
2 - Concrete Continuous 09 - Slab Span	
Main Span Detail	
Appr. Span Type	
Appr. Span Detail	
Skew	0
Culvert Type	
Barrel Length	ft.
Canterlever ID	

NUMBER OF SPANS			
MAIN:	3	APPR:	0
TOTAL:	3		
Main Span Length	26.0	ft.	
Structure Length	75.3	ft.	
Deck Width (Out-to-Out)	46.4	ft.	
Deck Material	1 - Concrete Cast-in-Place		
Wear Surf Type	4 - Low Slump Concrete		
Wear Surf Install Year	1982		
Wear Course/Fill Depth	0.17	ft.	
Deck Membrane	0 - None		
Deck Rebars	1 - Epoxy Coated Reinforcing		
Deck Rebars Install Year	1982		
Structure Area (Out-to-Out)	3494	sq. ft.	
Roadway Area (Curb-to-Curb)	2713	sq. ft.	
Sidewalk Width	Lt 0.70	ft.	Rt 6.00
Curb Height	Lt 0.50	ft.	Rt 0.50
Rail Type	Lt 17		Rt 17

ROADWAY			
Bridge Match ID (TIS) 0			
Roadway O/U Key Route On Structure			
Route Sys 04 - CSAH		Number 22	
Roadway Name or Description			
CSAH 22			
Level of Service 1 - MAINLINE			
Roadway Type 2 - 2-way traffic			
Control Section (TH Only)			
Reference Point 001+00.070			
Detour Length	3.0	mi	
Lanes	On 2	Under 0	
	ADT 2689	Year 2008	
HCACT	0	ADTT 0 %	
Functional Class 16 - Urban - Minor Arterial			

RDWY DIMENSIONS			
If Divided	NB-EB	SB-WB	
Roadway Width	36.00	ft.	ft.
Vertical Clearance		ft.	ft.
Max. Vert. Clear.		ft.	ft.
Horizontal Clear.	35.9	ft.	ft.
Lateral Clearance		ft.	ft.
Appr. Surface Width	36.0	ft.	
Bridge Roadway Width	36.0	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	1 - CONC
(Material/Type)	3 - FTG PILE
Pier Foundation	8 - CIP
(Material/Type)	4 - PILE BENT
Historic Status	5 - Not eligible

PAINT	
Year Painted	1982
Unsound Paint %	
Painted Area	250 sq. ft.
Primer Type	2 - Lead, Iron Oxide - non
Finish Type	G - Chorinated Rubber Alum

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	97.4
Routine Inspection Date	11/02/2015
Routine Inspection Frequency	24
Inspector Name	County, Ramsey
Status	A - Open

NBI CONDITION RATINGS	
Deck	5 - Fair Condition
Unsound Deck %	
Superstructure	6 - Satisfactory Condition
Substructure	7 - Good Condition
Channel	6 - Bank slump; minor damage
Culvert	N - Not Applicable

NBI APPRAISAL RATINGS	
Structure Evaluation	6
Deck Geometry	5
Underclearances	N
Water Adequacy	8 - Bridge Above Approache
Approach Alignment	6 - Equal to present minimu

SAFETY FEATURES	
Bridge Railing	1 - MEETS STANDARDS
GR Transition	1 - MEETS STANDARDS
Appr. Guardrail	1 - MEETS STANDARDS
GR Termini	1 - MEETS STANDARDS

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

WATERWAY			
Drainage Area (sq. mi.)			
Waterway Opening	500	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	M - STBL - ABV V	Year	1990

CAPACITY RATINGS		
Design Load	5 - HS 20	
Operating Rating	1 - LF (LF)	HS 37.6
Inventory Rating	1 - LF (LF)	HS 22.8
Posting VEH:	SEMI:	DBL:
Rating Date	05/14/2012	

MnDOT Permit Codes	
A:	N - N/A
B:	N - N/A
C:	N - N/A

MnDOT Structure Inventory Report

Additional Roadways

Bridge ID: 62537

CSAH 22(KELLER PY) over KOHLMAN CREEK

Date: 01/05/2016

MnDOT BRIDGE INSPECTION REPORT

01/05/2016

Inspector: County, Ramsey

BRIDGE 62537 CSAH 22(KELLER PY) OVER KOHLMAN CREEK

ROUTINE INSP. DATE: 11/02/2015

County: Ramsey	Location: 0.2 MI NE OF JCT CSAH 23	Length: 75.3 ft.
City: Maplewood	Route: 04 - CSAH 22 Ref. Pt.: 001+00.070	Deck Width: 46.4 ft.
Township:	Control Section:	Rdwy. Area/ Pct. Unsnd: 2713 sq. ft. / %
Section: 4 Township: 029N Range: 22W Maint. Area:		Paint Area/ Pct. Unsnd: 250 sq. ft. / %
Span Type: 2 - Concrete Continuous 01 - Slab	Local Agency Bridge Nbr.:	Culvert: N/A
List:		Postings:

NBI Deck: 5 Super: 6 Sub: 7 Chan: 6 Culv: N
 Open, Posted, Closed: A - Open
 MN Scour Code: M - STBL - ABV WATER

Appraisal Ratings - Approach: 6 Waterway: 8
 Required Bridge Signs - Load Posting: 0 - Not Required Traffic: 0 - Not Required
 Horizontal: 0 - Not Required Vertical: N - Not Applicable

Unofficial Structurally Deficient N
 Unofficial Functionally Obsolete N
 Unofficial Sufficiency Rating 97.4

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
215	Reinforced Concrete Abutment	2	Routine	11/02/2015	92 LF	0	92	0	0	N/A
			Routine	11/12/2013	92 LF	0	92	0	0	N/A

Requires Monitoring Monitored

Notes: There is minor vertical cracking at south end abutment. There is some evidence of corrosion at the east side of the north abutment 2007-2015.
 Minor cracks present but no exposed rebar. Vertical cracking w/efflorescence on the north abutment 2001-2015.
 Leakage from strip seal is causing deterioration 2005-2015.

234	Reinforced Concrete Pier Cap	2	Routine	11/02/2015	92 LF	0	92	0	0	N/A
			Routine	11/12/2013	92 LF	0	92	0	0	N/A

Requires Monitoring Monitored

Notes: There is 1' vertical crack in the south cap 2007-2015.
 Minor cracks and spalls are present 2001-2015.

300	Strip Seal Deck Joint	2	Routine	11/02/2015	92 LF	0	92	0	N/A	N/A
			Routine	11/12/2013	92 LF	0	92	0	N/A	N/A

Requires Monitoring Monitored

Notes: There is failure at both ends 2003-2015.
 Minor leakage both ends 2001-2015.
 Strip seal expansion joints need to be cleaned and flushed for further inspection 2001-2015.

301	Poured Deck Joint	2	Routine	11/02/2015	92 LF	0	92	0	N/A	N/A
			Routine	11/12/2013	92 LF	0	92	0	N/A	N/A

Requires Monitoring Monitored

Notes: Minor deterioration and adhesion failures are present 2001-2015.

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
320	Concrete Approach Slab-Bituminous Wearing Surface	2	Routine	11/02/2015	2 EA	0	2	0	0	N/A
			Routine	11/12/2013	2 EA	0	2	0	0	N/A

 Requires Monitoring Monitored

Notes: The bituminous has been patched by Ramsey County 2015.
There is some deterioration of the bituminous 2013-2015.
The south approach slab has moderate cracking and moderate settlement 2009-2015.
The north approach slab has moderate cracking and settlement 2015.

333	Masonry, Other or Combination Material Railing	2	Routine	11/02/2015	154 LF	0	154	0	N/A	N/A
			Routine	11/12/2013	154 LF	0	154	0	N/A	N/A

 Requires Monitoring Monitored

Notes: [2013-2015] minor damage on rail supports #2, #3, #4, #5 on east side - traffic damage (snow plow)
Both sides have minor vertical cracking and spalls present 2009-2015.
There is a 6" spall on the west side at mid span 2007-2015.
There is a 4" spall at west side expansion joint 2013-2015.
Minor damage to 4 eastside rail supports - caused by traffic. (snow plow) 2003-2015.
Railing is a combination concrete parapet & metal railing. Paint system has failed. Needs paint 2003-2015.

358	Concrete Deck Cracking Smart Flag	2	Routine	11/02/2015	1 EA	0	1	0	0	N/A
			Routine	11/12/2013	1 EA	0	1	0	0	N/A

 Requires Monitoring Monitored

Notes: Minor to moderate cracks w/ spalls in deck 2015
Minor but numerous cracks are present 2001-2013.

359	Underside of Concrete Deck Smart Flag	2	Routine	11/02/2015	1 EA	0	0	1	0	0
			Routine	11/12/2013	1 EA	0	0	1	0	0

 Requires Monitoring Monitored

Notes: [2013-2015] paint is failing on east fascia
[2013-2015] moderate spall (1' x 0.5') w/ delamination on east side fascia between piling.
There is cracking with corrosion the entire length east fascia. Cracking underneath and side 10" down from top 2007-2015.
There is a 1.5' X 1.0' area with exposed re-bar @ NE corner near north abutment 2007-2015.
Between south abutment and the C-I-P piling:
Paint failure on the SE fascia 2015.
2 cracks w/ delamination.
There is a diagonal crack with efflorescence @ SW corner near abutment 2007-2013.
There are 3 longitudinal cracks w/efflorescence & corrosion 2005-2013.
Between the C-I-P piling:
There are 2 longitudinal crack w/efflorescence & corrosion 2005-2013.
Delamination with exposed rebar & corrosion present @ east fascia between piling 2009-2013.
Between the C-I-P piling and north abutment:
3' x 1' delamination @ CL., moderate crack 15' long - 20' from west end. There are 2 longitudinal cracks w/efflorescence & moderate corrosion and 1 moderate longitudinal crack w/efflorescence & corrosion 2005-2015.
There is delamination present under railing at the NE corner. Distressed area >2% and <10% 2003-2015.

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
361	Scour Smart Flag	2	Routine	11/02/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/12/2013	1 EA	1	0	0	N/A	N/A

 Requires Monitoring Monitored

Notes: Scour is OK 2003-2015.

362	Traffic Impact Smart Flag	1	Routine	11/02/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/12/2013	1 EA	1	0	0	N/A	N/A

 Requires Monitoring Monitored

Notes: Minor damage to bridge rail supports #2, #3, #4, #5 on the east side doesn't affect the strength of the bridge 2003-2015.

378	Low Slump O/L (Concrete Slab with Epoxy Rebar)	2	Routine	11/02/2015	3498 SF	0	0	3498	0	0
			Routine	11/12/2013	3498 SF	0	0	3498	0	0

 Requires Monitoring Monitored

Notes: [2015] CL crack has 10 moderate spalls 1 w/ rust on north end.
 [2013-2015] There are 3 longitudinal cracks on entire length of deck - NB, CL, SB (w/ moderate spall in CL crack)
 [2013-2015] minor 10' diagonal crack in NW corner
 Some moderate spalling exists on deck 2011 - 2015.
 There is 15' diagonal cracking @ SW corner 2007-2015.
 There are 2 longitudinal cracks the entire length of deck 2001-2015.
 There is a total of 181 LF of longitudinal cracking 2009-2013.
 Minor transverse cracking in deck 2001-2015.
 There is a total of 36 LF of transverse cracking 2009-2015.
 Distressed is >2% and <10% 2005-2015.
 Deterioration of the east 1/2 of wearing surface due to vandalism after low slump overlay placement.

382	Cast-In-Place (CIP) Piling	2	Routine	11/02/2015	16 EA	0	16	0	0	N/A
			Routine	11/12/2013	16 EA	0	16	0	0	N/A

 Requires Monitoring Monitored

Notes: Paint is cracking & peeling. Some minor corrosion is present @ waterline of all piling 2003-2015.

387	Reinforced Concrete Wingwall	2	Routine	11/02/2015	4 EA	0	4	0	0	N/A
			Routine	11/12/2013	4 EA	0	4	0	0	N/A

 Requires Monitoring Monitored

Notes: [2015] minor paint failure on NE, SE, & SW wing walls.
 There is a 6" spall @ NW wing wall 2007-2015.
 Minor cracks & spalls are present on all 4 wingwalls 2001-2015

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
964	Critical Finding Smart Flag	2	Routine	11/02/2015	1 EA	1	0	N/A	N/A	N/A
			Routine	11/12/2013	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	11/02/2015	1 EA	1	0	0	0	0
			Routine	11/12/2013	1 EA	1	0	0	0	0

 Requires Monitoring Monitored

Notes: Horizontal clearance signs are in place 2003-2015.

982	Approach Guardrail	2	Routine	11/02/2015	1 EA	0	1	0	N/A	N/A
			Routine	11/12/2013	1 EA	0	1	0	N/A	N/A

 Requires Monitoring Monitored

Notes: There is a broken post @ eighth post north of NE corner 2007-2015.
Guardrail system is in place 2003-2015.
There are no crash attenuators on guardrail system 2009-2015.
Not required as per MNDOT 2011.

984	Deck & Approach Drainage	2	Routine	11/02/2015	1 EA	1	0	0	N/A	N/A
			Routine	11/12/2013	1 EA	1	0	0	N/A	N/A

 Requires Monitoring Monitored

Notes: Drainage system is functioning 2003-2015.

985	Slopes & Slope Protection	2	Routine	11/02/2015	1 EA	0	1	0	N/A	N/A
			Routine	11/12/2013	1 EA	0	1	0	N/A	N/A

 Requires Monitoring Monitored

Notes: There is moderate cracking & moderate settlement. There is severe settlement @ SE corner -3' X 3' void 2009-2015.
There is moderate deterioration of grouted riprap slope protection 2007-2015.
The SW corner has moderate deterioration of grouted riprap slope protection 2007-2015.
There is settlement of riprap @ wingwalls 2007-2015.
Settlement @ NW, SE and SW corners 1999-2015.

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
986	Curb & Sidewalk	2	Routine	11/02/2015	1 EA	0	1	0	N/A	N/A
			Routine	11/12/2013	1 EA	0	1	0	N/A	N/A

 Requires Monitoring Monitored

Notes: [2013] bituminous walk on east side has been repaired
 There is a 7" major settlement @ NE corner and a 5" major settlement @ SE corner. 2009-2011.
 There is a 6" major settlement @ NE corner and a 4" major settlement @ SE corner 2007.
 The sidewalk on the east side has numerous transverse cracking 2009-2015.
 Sidewalk on the east side has settled 2005.
 Minor cracks & spalls are present 2003-2005.

General Notes: 2015 Bridge safety inspection was conducted by Dan Bodelson on 11/02/2015.
 2013 Bridge safety inspection was conducted by Dan Bodelson & Brian Essler on 11/12/2013.
 2011 Bridge safety inspection was conducted by B. Wieman & D. Bodelson on 11/2/2011.
 2009 Bridge safety inspection was completed by B. Wieman 10/07/2009.
 2007 Bridge safety inspection was conducted by B. Wieman & B. Essler 8/09/2007.
 2005 Bridge safety inspection was conducted by Bret Wieman 9/8/2005.
 Tomaseal is flaking off and could be reapplied.
 There is settlement of bituminous bike path matching the bridge concrete sidewalk at the SW & NE corners. 2001-2009. Will talk to Ramsey County Public Works Maintenance Dept.

58. Deck NBI: Concrete deck has moderate cracking, spalls & leaching.

36A. Brdg Railings NBI: Vehicular railings meet current standards.

36B. Transitions NBI: Guardrail transitions meet current standards.

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

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

59. Superstructure NBI: Concrete deck has moderate cracking, spalling & delamination.

60. Substructure NBI: Abutments & piers have minor cracking, leaching & scale.

61. Channel NBI: Channel banks have minor to moderate erosion & slumping.

62. Culvert NBI: Structure is not a culvert.

71. Waterway Adeq NBI: Greater than 3' 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 -

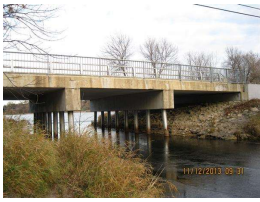


Photo 6 -

Pictures



Photo 7 -



1. east side.JPG



2. erosion on SE corner.JPG



3. looking north.JPG



4. looking south.JPG



5. spall on deck.JPG



6. spall under deck east side near north pier.JPG



7. west side.JPG

Culvert

Bridge No.: 62537

Culvert

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
Culvert Overall:	NBI Item 62	<u>N</u>	Structure is not a culvert.

MnDOT Scour Code: M - STBL - ABV WATER

Waterway Inspection

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.: 62537

Channel

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
Channel Overall:	NBI Item 61	<u>6</u>	Channel banks have minor to moderate erosion & slumping.

Bank Protection/Revetment

<i>Item</i>	<i>Description</i>	<i>Condition</i>	<i>Comments</i>
Upstream Bank Protection:	_____	_____	_____
Downstream Bank Protection:	_____	_____	_____
Bridge Revetment:	_____	_____	_____
MnDOT Scour Code:	<u>M - STBL - ABV WATER</u>		

Underwater Inspection

Underwater Inspection By Divers: _____

No. of Piers To Be Inspected: _____

Waterway Characteristics

Reference Point: _____	High Water Elev.: _____	Current Water Elev.: _____
Pile Tip Elev.: _____	Low Water Elev.: _____	Current Streambed Elev.: _____
	Scour Hole Elev.: _____	Current Scour Hole Elev.: _____

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.: 62537

Scour POA

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
--------------	----------	-----------

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
---------	-------------	-----------	-------------	-----	----------	--------------	----------	-------------	---------	------------	-----------



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.: 62537	BRIDGE OWNER: County Highway Agency
DATE INSPECTED: 11/02/2015	STRUCTURE TYPE: Concrete Continuous Slab
FACILITY CARRIED: CSAH 22(KELLER PY)	FEATURES INTERSECTED: KOHLMAN CREEK
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	Connection Type: <input type="checkbox"/> Riveted
<input type="checkbox"/> Structural	<input type="checkbox"/> Bolted
<input type="checkbox"/> Internal	<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