

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: HENNEPIN

BRIDGE 90625 BNSF RR OVER CSAH 153(LOWRY AVE NE)

INSP. DATE: 05-14-2014

County: HENNEPIN	Location: 0.3 MI E OF JCT TH 47	Length: 78.0 ft
City: MINNEAPOLIS	Route: CSAH 153 Ref. Pt.: 002+00.980	Deck Width: 86.1 ft
Township:	Control Section: Maint. Area:	Rdwy. Area / Pct. Unsnd: 6,717 sq ft
Section: 11 Township: 029NN Range: 24W	Local Agency Bridge Nbr: 708	Paint Area / Pct. Unsnd: 20,000 sq ft
Span Type: CONC SLAB SPAN		
NBI Deck: 5 Super: 5 Sub: 3 Chan: N Culv: N	Open, Posted, Closed: OPEN	
Appraisal Ratings - Approach: N Waterway: N	MN Scour Code: A-NON WATERWAY	Def. Stat: UNKN Suff. Rate: UNKN
Required Bridge Signs - Load Posting: NOT REQUIRED	Traffic: NOT REQUIRED	
Horizontal: OBJECT MARKERS	Vertical: ROADWAY RESTRICTION	

STRUCTURE UNIT: 0

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
12	TOP OF CONCRETE DECK	1	05-14-2014	5,005 SF	0	0	5,005	0	0
	Notes: [12. Conc spalled w/ rebar exp @ W coping over EB. '13-No change. '14-same.]								
38	TOP OF CONCRETE SLAB	1	05-14-2014	1,701 SF	0	0	1,701	0	0
	Notes: [38. RR tracks and ballast on top of slab. Joint @ N and S spans misaligned vertically. '13-No change. '14-same.]								
331	CONCRETE RAILING	1	05-14-2014	157 LF	141	9	7	0	N/A
	Notes: [331. Conc weathered and spalled. W rail spalled w/ rebar exp and rusted in a few places. Ballast rocks can fall through E rail onto traffic below. '13-No change. '14-plywood put behind E rail and wire tied to railing.]								
107	PAINTED STEEL GIRDER	4	05-14-2014	2,221 LF	0	0	2,221	0	0
	Notes: [107. Stringers hit and scraped many times. Different widths on the bottom of flanges. Several bottom flanges have minor dents from traffic impact. '13-Some section loss over bearings@ center & N Piers. 1 interior beam bent about 1" from traffic impact-WB @ center pier. '14-minor surface rust on all beams. Section loss of 6 inner beams @ center pier and 5 inner beams @ N pier.]								
110	CONCRETE GIRDER	4	05-14-2014	157 LF	0	150	0	7	N/A
	Notes: [110. Conc fascia beams. W fascia is a combination steel beam w/ conc on W face to make beam look like a "T". NE fascia severely damaged w/ rebar exp and one rebar & several stirrups sheared off. Fascia beams have impact damage and spalls. '13-No change. '14-same.]								
380	SECONDARY ELEMENTS	2	05-14-2014	1 EA	1	0	0	0	N/A
	Notes: [380. '14-steel diaphragms in roadway spans have surface rust.]								
311	EXPANSION BEARING	4	05-14-2014	88 EA	0	88	0	N/A	N/A
	Notes: [311. Rusted. '13-No change. '14-same.]								
313	FIXED BEARING	4	05-14-2014	88 EA	0	88	0	N/A	N/A
	Notes: [313. Rusted. Pack rust and some advanced corrosion on both sides of pier 2. '13-No change. '14-same.]								
205	CONCRETE COLUMN	4	05-14-2014	46 EA	0	7	20	19	N/A
	Notes: [205. Many columns cracked w/ large delams and spalls. Rebar exp w/ section loss @ all piers. Center pier has 11 columns w/ major loss of section. BJJ to request BNSF RR complete analysis of deteriorated columns. When columns are repaired, place crash strut @ center columns. Lower portion painted white @ all piers. '13-No change. '14-same.]								
215	CONCRETE ABUTMENT	4	05-14-2014	190 LF	180	10	0	0	N/A
	Notes: [215. A few vert cracks. Popouts on faces. Lower portions painted white. S stained by seepage @ joint. Rust @ old form ties. Leakage in E center of N. Fine map cracking in S. Spalls in E const joint of S. '13-No change. '14-108 LF of vert cracks. Widest crack is 1/16".]								

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INSP. DATE: 05-14-2014

234	CONCRETE CAP	4	05-14-2014	279 LF	259	14	6	0	N/A
Notes: [234. Center and N cap stained from leakage thru deck. A few vert cracks in some caps. Vert spalls w/ exp rebar N side pier 2 and S side pier 1. '13-No change. '14-same.]									
387	CONCRETE WINGWALL	4	05-14-2014	4 EA	0	4	0	0	N/A
Notes: [387. Walls weathered. Rust @ old wire form ties. Diag cracks in NE. Numerous popouts in NW, SE and SW. Fine horiz and map cracks in NW. '13-No change. '14-rust stains on lower portion of NW. Exposed rusted rebar @ 4th step from bottom in NW.]									
358	CONC DECK CRACKING	2	05-14-2014	1 EA	1	0	0	0	N/A
Notes: [358.]									
359	CONC DECK UNDERSIDE	2	05-14-2014	1 EA	0	0	1	0	0
Notes: [359. Spans 2 and 3 - Efflor @ stringer flanges. Considerable leakage over N and center piers. Conc spalled w/ rebar exp @ W coping over EB. Leaking and efflor @ const joint in all spans. Long cracks in N span, W side. Spalls, some w/ rebar exp in N span. '13-No change. '14-leakage over all piers. Cracks w/ efflor & stains in N span.]									
362	TRAFFIC IMPACT	2	05-14-2014	1 EA	0	0	1	N/A	N/A
Notes: [963. Fascia beam and steel girder impacts. '13-Interior beam WB @ center pier. '14-same.]									
964	CRITICAL FINDING	2	05-14-2014	1 EA	1	0	N/A	N/A	N/A
Notes: [964.]									
981	SIGNING	2	05-14-2014	1 EA	0	0	1	0	0
Notes: [981. Horiz clearance marker X4-4 @ NE and SW corners. Center pier has reflector signs-WB sign damaged. Lights mounted on center pier. Directional signs @ center pier. WB restricted clearance sign on bridge is missing, EB is damaged. Vert clearance sign (13'-6") @ approaches. Narrow bridge sign @ E approach, none @ W. No parking between 7-9 AM and 4-6 PM M-F @ N side of street. No parking between 4-6 PM @ S side. All Keep Right and horiz clearance signs on approach columns are discolored and have graffiti on them. '13-No change. '14-same.]									
984	DRAINAGE	2	05-14-2014	1 EA	1	0	0	N/A	N/A
Notes: [984. OK.]									
988	MISCELLANEOUS	2	05-14-2014	1 EA	0	0	1	N/A	N/A
Notes: [988. 1" conduit attached to N abut, pier 3 and between beams near E side. 1" conduit is attached to W fascia and runs along S pier to luminaires. 1" conduit S side pier 1. 2 lights @ N walkway, 2 @ WB roadway, 2 @ EB roadway and 2 @ S walkway. Curb spalled @ median and outside gutters. S curb has several areas of exp rebar. Curb @ median is badly deteriorated, w/ 20% of it gone. Minimal horiz clearance. 3' high metal ret wall holding ballast rock @ SE corner. Graffiti on S pier. '13-No change. '14-all curbs have areas w/ rebar exposed.]									

General Notes: Bridge 90625(708) BNSF RR/CSAH 153(Lowry Ave NE) 5/14/14. PTH and WJM.
 NOTES: Call Pat Grant for sign issues on bridges in City of Minneapolis-office 612-673-5757; cell 612-221-5305.
 Minimum vert clearance = 13.8' @ WB. Repair agreement: BNSF RR. Still no advance warning signs EB or WB-2012, 2013.

Recommended Repairs:

- 205. Repair severely deteriorated conc columns-request BNSF RR to complete analysis of columns - HIGH PRIORITY.
- 331. Plywood attached to railing on E side needs to be lowered as there is still a gap for ballast to fall through.
- 981. No advance vertical clearance signs-reported to operations and City of Minneapolis.
- 988. Repair curbs.
- 988. Repair 3 SF pothole in EB lane - through overlay and down to cobblestone.

Inspector's Signature

Reviewer's Signature / Date

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: DISTRICT1

BRIDGE 69833**DM&IR ORE DOCK #6 OVER I 35****INSP. DATE: 06-26-2014**

County: ST LOUIS	Location: AT ORE DOCKS	Length: 265.1 ft
City: DULUTH	Route: Isth 35 Ref. Pt.: 254+00.199	Deck Width: 34.0 ft
Township:	Control Section: 6982 Maint. Area: 1A	Rdwy. Area / Pct. Unsd:
Section: 05 Township: 049NN Range: 14W	Local Agency Bridge Nbr:	Paint Area / Pct. Unsd: 80 %
Span Type:		
NBI Deck: 7 Super: 5 Sub: 3 Chan: N Culv: N		
Open, Posted, Closed: OPEN		
Appraisal Ratings - Approach: 8 Waterway: N		
MN Scour Code: A-NON WATERWAY Def. Stat: UNKN Suff. Rate: UNKN		
Required Bridge Signs - Load Posting: NOT REQUIRED Traffic: NOT REQUIRED		
Horizontal: OBJECT MARKERS Vertical: NOT REQUIRED		

STRUCTURE UNIT: 0

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
401	BALLAST PLATE DECK	2	06-26-2014	9,013 SF	9,013	0	0	0	0
	Notes: [Deck is 1/4" plate steel. 2014- Need access]								
334	METAL RAIL-COATED	2	06-26-2014	530 LF	0	265	265	0	0
	Notes: [Steel rail has freckled to active corrosion. 2014- Top of deck]								
107	PAINTED STEEL GIRDER	2	06-26-2014	1,060 LF	318	212	212	318	0
	Notes: [Paint on center pier is 90% rusted on northerly and interior surface. Southerly surface is rusted. Pan paint on bottom is rusting on much of the surface. 10 feet from center pier, joint in deck allows water to flow onto splice plates and stiffeners. Pack rust in these areas 1/2 in. 2014- No Change]								
113	PAINT STEEL STRINGER	1	06-26-2014	97 LF	0	97	0	0	0
	Notes: [On 8/03/2009, G. Elmquist added element 113. Rail road has not allowed access to super structure for recent inspections, but from the ground it appears that steel is rusting. 2014- No Change]								
311	EXPANSION BEARING	2	06-26-2014	4 EA	3	1	0	N/A	N/A
	Notes: [Anchor bolt girder 4 east pier 75% section loss. West Pier, Beam 1 and 2, anchor hole enlarged, bolt heavily rusted. 1 in deformation between retainer and sole plate.2014- No access]								
313	FIXED BEARING	2	06-26-2014	8 EA	8	0	0	N/A	N/A
	Notes: [NW column has new anchor bolts but are loose. E. column has anchor bolt rusted off. W. column, 2 of the northern anchor plates are cracked all the way through.2014- No Change]								
202	PAINT STL COLUMN	2	06-26-2014	8 EA	0	0	0	5	3
	Notes: [Active Railroad Line - West Bent ; Pier legs have 3/16 to 1/4 in. L.O.S. at junction with concrete encasement near bottom. There is also heavy rust at these locations. The steel is mostly covered with moderate to heavy rust. There are some areas of heavy pack rust on the pier legs with some loss of section. North lower horizontal brace between NW leg and east outside channel top flange has a rust hole. The 10 in channel diagonal from the SE column on the west side has a 2 ft X 8 in area with LOS from 0 at the edge to a pin hole in the center. The SW column on the west side has a 1 1/2 in X 3/4 in hole in the web of the column at the top of the concrete. The horizontal legs of the top angles of the South bottom horizontal brace have 100% LOS and the vertical legs have 60% LOS at the SE connection. The center pier columns are 98% rusted. The south channel of the north horizontal brace at the east end has a three inch hole. Note: Loss of section drawings in Shared Drive. (2009 - West pier is constructed with 4 steel columns that are referenced by quadrant. Loss of section survey in 2008 estimated the SE column to have 30% loss of section. Loss of section survey in 2009 estimated the NW column to have 20% loss of section, and the SW column to have 15% loss of section. An analysis is required. Pier in median has anchor bolts with section loss up to 1/8 inch, and column flanges and webs have areas of 1/8 in. section loss. 2010/ - Cross bracing have areas of up to 1/8 in. LOS in 3/8 in. The West pier has lower horizontal bracing constructed of built up members of 2 channels. The channels from the NE column to the NW column has one web 90% rusted away and the other web has a 1 1/2 x 2 in. long hole. 2011/- The north and south channels between the pier legs and mostly covered in dirt. 2012/- Batten plates are bent 1/2 in. - 1 in. due to heavy pack rust. 2014- West Bent: SE colu								

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: DISTRICT1

BRIDGE 69833 DM&IR ORE DOCK #6 OVER I 35**INSP. DATE: 06-26-2014**

231	PAINTED STEEL CAP	2	06-26-2014	48 LF	0	14	34	0	0
Notes: [Pier caps and legs on either side of T.H. 35 are 70% rusted and peeling with pack rust at connections. 2014- No Change]									
357	PACK RUST	2	06-26-2014	1 EA	0	0	1	0	N/A
Notes: [Batten plates on old pier bents bowed out up to 3/4 in. -1" from pack rust. There is also sheet rust at several locations.]									
359	CONC DECK UNDERSIDE	2	06-26-2014	1 EA	1	0	0	0	0
Notes: [2014- Need access]									
363	SECTION LOSS	2	06-26-2014	1 EA	0	0	0	1	N/A
Notes: [10/25/08 South east steel column of Pier at west side of SB I-35 has 30% loss of section just above the concrete footing. Field measurements have been sent in for analysis. There is some LOS on this bridge. Note: Drawings in Shared Drive (Bridge photos) (10/05/09 - Pier west of interstate, NW column has 20% loss of section, SW column has 15% Loss of section. Field measurements have been sent in for analysis and drawings are in file.)2014-]									
964	CRITICAL FINDING	2	06-26-2014	1 EA	1	0	N/A	N/A	N/A
Notes: [DO NOT DELETE THIS CRITICAL FINDING SMART FLAG. 2014-No change]									
981	SIGNING	2	06-26-2014	1 EA	0	1	0	0	0
Notes: [Signs Required: Horizontal Clearance 20154- Markers missing]									
982	GUARDRAIL	2	06-26-2014	1 EA	1	0	0	N/A	N/A
Notes: [New Guardrail 2011 2014 - No change]									
984	DRAINAGE	2	06-26-2014	1 EA	1	0	0	N/A	N/A
Notes: [2014- No Access]									

General Notes: Utilities are 1- Rubber power, 2- Gal. conduit , 1- Phone. 10/25/08 Inspection: G. Elmquist made request to RR personnel for permission for access the upper portion of bridge by MnDOT inspection teams Have not received permission to access bridge. (2009 - Railroad said they would notify MnDOT this summer to join their inspections for inspection of bridges 69833 and 69829. They have not contacted us as of 10/05/09, so we have not had access to the superstructure of this bridge.) (2010 - No access to top of bridge in 2010. Check if RR can furnish inspection as they do with the Oliver bridge.) 2011 inspection M. Chell/C.Werner. (PC: To date (11/11), we have not received permission to access superstructure or copies of CNRR's reports.)
08/20/2012 Inspection: G.Elmquist/W. Ek
05/16/13 G.Wright/J.Benson
2014-6-26 D Rychlak/ James Pratt

Inspector's Signature

Reviewer's Signature / Date

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: MINNEAPOLIS

BRIDGE 92338 BNSF RR OVER 15TH AVE SE**INSP. DATE: 04-30-2014**

County: HENNEPIN	Location: 0.5 MI NE OF UNIV AVE	Length: 80.8 ft
City: MINNEAPOLIS	Route: MSAS 233 Ref. Pt.: 000+00.421	Deck Width: 100.0 ft
Township:	Control Section: Maint. Area:	Rdwy. Area / Pct. Unsd:
Section: 24 Township: 029NN Range: 24W	Local Agency Bridge Nbr: 4636	Paint Area / Pct. Unsd: 65 %
Span Type: CONC SLAB SPAN		
NBI Deck: 5 Super: 5 Sub: 4 Chan: N Culv: N	Open, Posted, Closed: OPEN	
Appraisal Ratings - Approach: N Waterway: N	MN Scour Code: A-NON WATERWAY	Def. Stat: UNKN Suff. Rate: UNKN
Required Bridge Signs - Load Posting: NOT REQUIRED	Traffic: NOT REQUIRED	
Horizontal: OBJECT MARKERS	Vertical: ROADWAY RESTRICTION	

STRUCTURE UNIT: 0

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
401	BALLAST PLATE DECK	1	04-30-2014	8,084 SF	0	0	0	8,084	0
	Notes: [DID NOT VIEW TOP OF DECK AREA BECAUSE OF RR AUTHORITY. THE PROTECTION FABRIC COVER OF THE DECK HAS HOLES IN IT AND DEBRIS IS FALLING THROUGH, HAZARDOUS TO PEDESTRIANS AND VEHICLES. SIX TRACKS, 3 MAIN LINE. TWO FIBER LINES LAY ON TOP OF WOOD DECK. THE WOODEN PLANK SIDEWALK ON THE SOUTH IS GOOD.]								
301	POURED DECK JOINT	2	04-30-2014	364 LF	0	364	0	N/A	N/A
	Notes: [THE STRUCTURE HAS SEVERE SEEPAGE PROBLEMS.]								
334	METAL RAIL-COATED	2	04-30-2014	105 LF	0	0	105	0	0
	Notes: [THERE IS UNIFORM MODERATE SCALE AND RUST ON THE SOUTH PIPE RAIL.]								
107	PAINTED STEEL GIRDER	2	04-30-2014	755 LF	0	0	717	38	0
	Notes: [THERE IS UNIFORM SCALING AND MODERATE RUST THROUGHOUT. HEAVY PACK RUST AT THE FLANGES, STIFFENERS, AND GUSSET PLATES. THERE ARE SCRAPE MARKS ON THE LOWER FLANGES FROM HIGH LOAD DAMAGE. NORTH GIRDER IN NORTH BOUND LANE HAS MANY HITS ACCIDENT DAMAGE AND IS BENT UPWARDS AND OUT OF ALIGNMENT. TYPE B PAINT IS ASSUMED. GRAFFITI]								
380	SECONDARY ELEMENTS	1	04-30-2014	1 EA	0	0	0	1	N/A
	Notes: [DIAPHRAGMS, STIFFENERS AND SWAY BRACING. EXTENSIVE DETERIORATION, CONNECTIONS HAVE CORROSION, PACK RUST, SECTION LOSS, WITH HOLES THROUGH MEMBERS. MANY OF THE BRACING AND CONNECTION PLATES SHOW BUCKLING, SEVERAL HAVE BEEN REPLACED OR REMOVED.]								
202	PAINT STL COLUMN	2	04-30-2014	16 EA	0	0	0	16	0
	Notes: [ALL OF THE COLUMNS HAVE SEVERE SCALING AND RUST WITH PACK RUST THAT'S CAUSING DEFORMATION, BUCKLING AND HEAVY MATERIAL LOSS ON ALL OF THE LOWER MEMBERS.]								
215	CONCRETE ABUTMENT	2	04-30-2014	207 LF	0	0	207	0	N/A
	Notes: [THERE ARE FINE SIZED VERTICAL, HORIZONTAL CRACKS, AREAS OF EFFLORESCENCE, INCRUSTATION AND AREAS OF DELAMINATED LOOSE CONCRETE, LEACHING AND SPALLING THROUGHOUT WITH A MASSIVE SPALL AT THE S.E. CAP, LARGE CONCRETE SPALL ABOVE THE BENT, HAZARDOUS TO PEDESTRIANS. SEVERE CRUSHING S.W. CORNER. GRAFFITI BOTH SIDES.]								
231	PAINTED STEEL CAP	2	04-30-2014	197 LF	0	0	0	197	0
	Notes: [THERE IS UNIFORM SCALING AND RUST THROUGHOUT, WITH HEAVY PACKRUST AT THE GUSSET PLATES, BOTTOM CONNECTION PLATES BUCKING, SECTION LOSS.]								
387	CONCRETE WINGWALL	2	04-30-2014	2 EA	0	2	0	0	N/A
	Notes: [MANY FINE SIZE CRACKS.]								
357	PACK RUST	2	04-30-2014	1 EA	0	0	1	0	N/A
	Notes: [LOOK AT ELEMENTS 107, 202, 231 AND 380.]								

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: MINNEAPOLIS

BRIDGE 92338 BNSF RR OVER 15TH AVE SE

INSP. DATE: 04-30-2014

359	CONC DECK UNDERSIDE	2	04-30-2014	1 EA	0	0	1	0	0	
Notes: [THE SUBSURFACE ON BOTH HAS HEAVY SPALLING WITH REBARS EXPOSED. ONE LARGE AREA OF EXPOSED REBARS ON THE WEST IS UNDERMINED INTO THE SECOND MAT. THE CONCRETE ABOVE THE BENT CAPS IS SEVERELY SPALLED WITH REBARS EXPOSED. LARGE CHUNKS OVER THE E. AND W. SIDEWALK ARE LOOSE AND HAZARDOUS.]										
362	TRAFFIC IMPACT	1	04-30-2014	1 EA	1	0	0	N/A	N/A	
Notes: [HIGH LOAD DAMAGE HAS BENT THE GIRDER AND STIFFENER. THE RIVETS ON THE DIAPHRAGM WERE SHEARED OFF. NO TRAIN RUNS DIRECTLY OVER THIS GIRDER.]										
363	SECTION LOSS	1	04-30-2014	1 EA	0	0	1	0	N/A	
Notes: [SEE ELEMENTS 107,202 231 AND 380.]										
964	CRITICAL FINDING	2	04-30-2014	1 EA	1	0	N/A	N/A	N/A	
Notes: [NO CRITICAL FINDINGS.]										
981	SIGNING	2	04-30-2014	1 EA	1	0	0	0	0	
Notes: [ADVANCED LOW CLEARANCE, ANOTHER AT APPROACH, POSTED 13'-0" WITH OBJECT MARKER MOUNTED ON POST. KEEP RIGHT SIGN AND DIAMOND OBJECT MARKER AT CENTER ISLAND. RESTRICTED CLEARANCE SIGN MOUNTED ON SOUTH FASCIA GIRDER. GRAFFITI.]										
984	DRAINAGE	2	04-30-2014	1 EA	0	1	0	N/A	N/A	
Notes: [DRAINAGE PROBLEMS FROM ELEVATED AREA E. OF STRUCTURE. PVC EXTENSION ADDED E. SIDE, ABOVE SIDEWALK AREA.]										
988	MISCELLANEOUS	2	04-30-2014	1 EA	1	0	0	N/A	N/A	
Notes: [LIGHTING GOOD. CONDUIT JUNCTION BOX IS OPEN.]										

General Notes: RR #61197. SOUTH BRIDGE. BNSF EMERGENCY CONTACT NUMBER 800-832-5452. AREA UNDER; ROADWAY GOOD. CURB GOOD. SIDEWALK GOOD.

 Inspector's Signature

 Reviewer's Signature / Date

Mn/DOT BRIDGE INSPECTION REPORT

Inspector: DISTRICT4

BRIDGE 6408

BNSF RR OVER US 10

INSP. DATE: 08-12-2014

County: CLAY

Location: IN MOORHEAD

Length: 193.5 ft

City: MOORHEAD

Route: USTH 10 Ref. Pt.: 001+00.013

Deck Width: 21.0 ft

Township:

Control Section: 1401 Maint. Area: 4A

Rdwy. Area / Pct. Unsd:

Section: 09 Township: 139NN Range: 48W

Local Agency Bridge Nbr:

Paint Area / Pct. Unsd:

Span Type:

NBI Deck: 7 Super: 4 Sub: 7 Chan: N Culv: N

Open, Posted, Closed: OPEN

Appraisal Ratings - Approach: N Waterway: N

MN Scour Code: A-NON WATERWAY

Def. Stat: UNKN Suff. Rate: UNKN

Required Bridge Signs - Load Posting: NOT REQUIRED

Traffic: NOT REQUIRED

Horizontal: OBJECT MARKERS

Vertical: NOT REQUIRED

STRUCTURE UNIT: 0

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	QTY CS 5
30	OTHER DECK	2	08-12-2014	4,063 SF	4,063	0	0	0	0
Notes: 08-new timber (ties) for ballast deck solid no spaces, 2011 not inspected as per mn/dot bridge office directive									
304	OPEN DECK JOINT	2	08-12-2014	36 LF	36	0	0	N/A	N/A
Notes: N/									
333	RAILING - OTHER	2	08-12-2014	140 LF	140	0	0	N/A	N/A
Notes: N/									
106	WEATH STEEL GIRDER	4	08-12-2014	357 LF	0	357	0	0	N/A
Notes: 2012-water coming through ballast has deteriorated coating on all girders.									
107	PAINTED STEEL GIRDER	4	08-12-2014	638 LF	0	400	178	60	0
Notes: Cracked tack welds throughout. (16) rivets sheared from bottom of girder over the WB lane. Paint chalking throughout both girders. [2007-2013](2) rivets sheared each girder EB. Bolted splice over center pier has broken bolts 3 of 14 on E pier, 6 of 14 on W pier. Other bolts are loose. 2010-rust over rdwys, [2013] 2 bolts sheared off at splice West girder @ pier 2. [2014] At approximately mid point of span 3, the bottom flange of the east girder is bent up out of plane approximately 1". The heads of approximatel 30 rivets are sheared off or distorted on both of the girders lower flange cover plates. The west girder in span 3 over the westbound right lane has scrapes and gouges on the bottom flange from a high load hit.									
113	PAINT STEEL STRINGER	4	08-12-2014	638 LF	0	0	600	38	0
Notes: 2011 prevelant flaking rust with minor section loss. 2012-Water through ballast has corroded all top flanges of stringers. [2014] Stringers in area of high load hit over westbound right lane have scrapes and damage from sway bracing contacting them due to being bent.									
152	PAINT STL FLOORBEAM	4	08-12-2014	609 LF	0	500	69	40	0
Notes: 2011 prevelant flaking rust with minor section loss [2014] Floor beams 10, 11 and 12 have scrapes and 12 has minor upward out of plane bend.									
380	SECONDARY ELEMENTS	4	08-12-2014	3 EA	0	0	0	1	N/A
Notes: Sway braces, Diaphragms, & struts between column [2006-2013]Sway brace over EB left lane and WB right lane is bent. [2009-2013]bent gusset between girder and brace at N abut S side. [2014] 2 sets of sway braces over westbound right lane have severe traffic impact damage. Steel angle supports on these members are bent and partially torn.									
311	EXPANSION BEARING	4	08-12-2014	10 EA	10	0	0	N/A	N/A
Notes: 07-Bearings at S abut covered by rock and dirt. 2012-Weld at sole plate over E abutment, N side is cracked at the edge of the weathering steel girder.									
313	FIXED BEARING	4	08-12-2014	20 EA	20	0	0	N/A	N/A
Notes: < none >									