



**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

**Inspection Report for
B-16-038-0001**

**USH 2 over IH 35-MINNESOTA
Oct 19,2015**



Type	Prior	Frequency (mos)	Performed
Routine	10-19-15	24	X
Interim	09-27-05	0	
SI&A	08-19-13	48	

Latitude 46°44'35.57"N
Longitude 92°09'17.45"W

Owner STATE HIGHWAY DEPT
Maintainer STATE HIGHWAY DEPT

Time Log

Team members

Hours	Minutes	
1	0	

	Name	Number	Signature	Date
Inspector	Bjorklund, Allan M	8003	Completed by HSI System Account(HSI)	
Reviewer				

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Identification & Location

Feature On: USH 2	Section Town Range: S08 T49N R14W	Structure Number: B-16-038-0001
Feature Under: IH 35-MINNESOTA	County: DOUGLAS(16)	
Location 1.1M W MINN STATE LINE	Municipality: CITY-SUPERIOR(16281)	Structure Name:

Geometry

measurements in feet, except where noted

Approach Roadway Width: 54	Bridge Roadway Width: 66.0	Total Length: 285.1
Approach Pavement Width: 38	Deck Width: 76.4	Deck Area (sq ft): 21781

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	4	17500	2010	TWO WAY TRAFFIC
Under	4	41500	2012	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating: HS28	Overburden depth (in): 1.5	Last rating date: 10-16-03	Controlling:
Operating rating: HS45	Deck surface material: CONCRETE	Re-rate for capacity (Y/N): Y	Control location:
Posting:	Re-rate notes: Concrete overlay finished WB in 2014, EB in 2015 Project 8060-04-71		

Hydraulic

Classification

Scour Critical Code(113): (N) NO WATERWAY	Q100 (ft3/sec): 0	
High water elevation (ft): 0.0	Velocity (ft/sec): 0.0	Sufficiency #: 92.6

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONT STEEL	DECK GIRDER		76.0	
2	CONT STEEL	DECK GIRDER		133.0	Y
3	CONT STEEL	DECK GIRDER		74.0	

Expansion joint(s)

Temperature:

File:	New:
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Vertical Clearance

	Measurement file (ft)	File Date	Measurement new (ft)
Highway Minimum Under Cardinal	16.72		
Highway Minimum Under Non-Cardinal	16.72		
Highway Minimum On			
Railroad Minimum Under			

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Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	12		Reinforced Concrete Deck	SF	21,781	21,781	0	0	0
			Chloride content (LB/CY) is high enough to warrant a NBI 4. Border bridge agreement to place deck at NBI 5. Testing report in files at NWR/Superior. Deck overlay in progress, complete in 2015.						
		8514	Concrete Overlay	SF	21,781	0	21,781	0	0
			Concrete overlay completed on WB 2014, EB 2015.						
		3220	Crack (Wearing Surface)	SF		0	21,781	0	0
			Map cracked through out.						
X	107		Steel Open Girder	LF	2,538	2,438	100	0	0
			painted 2010 &11						
		1000	Corrosion	LF		0	100	0	0
			paint will need touch up in 2015 after second half of deck overlay below expansion joints. Not done at time of inspection.						
		8516	Painted Steel	SF	27,563	27,563	0	0	0
			painted 2010 &11						
		3440	Effectiveness (Steel Protective Coatings)	SF		27,563	0	0	0
			paint will need touch up in 2015 after second half of deck overlay below expansion joints						
X	210		Reinforced Concrete Pier Wall	LF	228	219	9	0	0
			Four vertical cracks on Pier #3 below bearings						
		1130	Cracking (RC)	LF		0	9	0	0
			Four vertical cracks on Pier #3 below bearings						
X	215		Reinforced Concrete Abutment	LF	75	73	2	0	0
		1130	Cracking (RC)	LF		0	2	0	0
			NE corner vertical crack.						
X	300		Strip Seal Expansion Joint	LF	154	154	0	0	0
			New WB 2014, EB 2015.						
X	311		Moveable Bearing	EA	27	27	0	0	0
			painted 2010 &11						
X	313		Fixed Bearing	EA	9	9	0	0	0
			painted 2010 &11						
X	330		Metal Bridge Rail	LF	380	380	0	0	0
			SW corner top metal railing hit and twisted in radius of ramp. Repaired 2015.						
		1900	Distortion	LF		0	0	0	0
			SW corner top metal railing hit and twisted in radius of ramp. Repaired 2015.						
X	331		Reinforced Concrete Bridge Rail	LF	380	380	0	0	0
			SW corner top metal railing hit and twisted in radius of ramp. Repaired 2015.						
		1080	Delamination - Spall - Patched Area	LF		0	0	0	0
			SW corner top. Repaired 2015.						

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X	8400		Integral Wingwall At Minnesota abutment.	EA	2	2	0	0	0
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Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State			
						1	2	3	4
X	9004		Drainage - Deck	EA	2	2	0	0	0
X	9007		Median ends are being replaced with the joint replacements and curb repaired.	EA	190	190	0	0	0
X	9043		Slope Protection- Crushed Aggregate with Bit. Resprayed 2015.	EA	2	2	0	0	0
X	9167		Steel Diaphragm	EA	104	104	0	0	0
X	9169		Lateral Bracing	EA	32	32	0	0	0
X	9322		Approach Roadway - Concrete (non-structural) New WB 2014, EB 2015.	EA	2	2	0	0	0

NBI Ratings

	File	New
Deck	5	7
Superstructure	7	7
Substructure	7	7
Culvert	N	N
Channel	N	N
Waterway	N	N

Structure Specific Notes

Inspection Specific Notes

Put in program for painting. Delam survey. (03) Inspected by Minnesota DOT copy of inspection report on file in District 8 office. (2004) Traffic ADT data from Minnesota DOT 2003 counts. 2007 inspection took place from 8/17 to 8/30/2007. MNDOT inspected 2008 file in bridge office Superior NWR entered for date by DJH. Inspected by DJH etal between 8-24-2009 and 9-4-2009. Inspected 2010 by Mndot, Gary Elmquist et al. Signed copy of inspection in bridge file Superior office. Entered for date only by D. Harrington. Inspected 2011 by DJH etal between 8/22/2011 and 8/31/2011 during constuction project on IH 35 paint not yet completed on girders but scheduled 2011. Inspected 2012 by DJH etal between 8/15/12 and 8/30/12. Inspected 2013 by DJH etal between 8/12/13 and 8/29/13. Inspected 2014 by DJH etal between 8/19/14 and 8/28/14. Project 8680-04-71 in progress, complete in 2015.

Inspector Site-Specific Safety Considerations

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Structure Inspection Procedures

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Special Requirements

	Chk	Comments
Traffic Control		
ReachAll Vehicle		
Access Equipment		
Other		

Construction History

Year	Work Performed	FOS id
9999	NOT BUILT	8680-04-71
1984	NEW DECK	8680-01-85
1984	NEW SUPERSTRUCTURE	8680-01-84
1983	NEW STRUCTURE	8680-01-81

Maintenance Items History

Item	Recommended by	Status	Status change	Year completed
Drainage - Clean Downspouts	Harrington, Daniel J (8004)	REJECTED	03/02/15	
Clean out downspouts and catch basins in span 1				
Drainage - Repair Washouts / Erosion	Harrington, Daniel J (8004)	REJECTED	03/02/15	
repair washouts and clean drains/catchbasins span #1				
Slope Protection - Reseal Slope Paving	Harrington, Daniel J (8004)	REJECTED	03/02/15	
reseal slope paving				
Deck - Repair Railing	Harrington, Daniel J (8004)	REJECTED	03/02/15	
repair railing SW corner of bridge.				

Maintenance Items

Item	Priority	Recommended by	Status	Status change
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Routine
Document Comment/Description
Looking North from I35



Routine

Document Comment/Description

Typical underside over I35.



Routine
Document Comment/Description

Repaired SW wing.



Routine

Document Comment/Description

Repaired curb on median.



Routine
Document Comment/Description

Looking west. Note new coverplates on median.

