STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Inspection Report for C-13-2023

STH 89 over BR OF MUD CREEK

May 23,2019

Type	Prior	Team Leader	Frequency (mos)	Performed
Routine - Culvert	11-28-18	Doocy, Steve (9028)	12	X

Latitude	43°14'10.00"N	Owner	STATE HIGHWAY DEPT
Longitude	89°00'57.00"W	Maintainer	STATE HIGHWAY DEPT

Time Log

Hours	Minutes
0	30

Team members

Shannon Lipe
Jack Martzke
Travis McDaniel

	Name	Number	Signature	Signature Date
Inspector	Coset, Madison	9025	Madison Coset E-signed by Travis McDaniel(dotwtm)	06-03-19

BRIDGE INSPECTION REPORT
Wisconsin Department of Transportation
DT2007 2003 s.84.17 Wis. Stats.

Identification & Location

Feature On: STH 89	Section Town Range: S24 T09N R12E	Structure Number: C-13-2023
Feature Under: BR OF MUD CREEK	County: DANE	
Location 2.5M S CTH V	Municipality: YORK	Structure Name:

Geometry

measurements in feet, except where noted

Approach Roadway Width: 0	Bridge Roadway Width:	Total Length: 11.5
Approach Pavement Width: 0	Deck Width:	Deck Area (sq ft):

Traffic

	Lanes	ADT	ADT year	Traffic Pattern
On	2	1100	2000	TWO WAY TRAFFIC

Capacity

Load Rating

Inventory rating:	Overburden depth (in): 2.0	Last rating date:	Controlling:
Operating rating:	Deck surface material: BITUMINOUS	Re-rate for capacity (Y/N):	Control location:
Posting:	Re-rate notes:		

Hydraulic

Classification

Scour Critical Code(113): (8) STABLE-ABOVE TOP FOOTING	Q100 (ft3/sec):	
High water elevation (ft):	Velocity (ft/sec):	Sufficiency #:

Span(s)

Span #	Material	Configuration	Depth (in)	Length (ft)	Main
1	CONCRETE	RIGID FRAME		11.0	Y

Expansion joint(s)

Temperature:

File:	New:

Clearance

Item	File Measurement (ft)	File Date	New Measurement (ft)
Highway Min Vertical On Cardinal			
Horizontal On Cardinal			

Construction History

Year	Work Performed	FOS id
2014	NEW STRUCTURE	0000-00-00

Maintenance Items

Item	Priority	Recommended by	Status	Status change
IMP-Structure Replacement	HIGH	Doocy, Steve (9028)	IDENTIFIED	12/11/18
Recommend replacement.				

Elements

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State 1	2	3	4
X	**38**		**Reinforced Concrete Slab** No plans exist, but it appears to be a rigid frame structure resting on spread footings. It has been widened on both ends onto the old wings.	SF	340	314	6	20	0
		1080	Delamination - Spall - Patched Area spall at construction joint for widening (both sides). Edge of slab (both sides) also has delams.	SF		0	6	0	0
		1130	Cracking (RC) Wide cracks along edge of slab.	SF		0	0	20	0
	8511		AC Overlay	SF	340	0	340	0	0
		3220	Crack (Wearing Surface) transverse cracking over slab area.	SF		0	340	0	0
X	**215**		**Reinforced Concrete Abutment**	LF	68	0	4	64	0
		1130	Cracking (RC) Vertical cracks near wingwalls and NW Corner.	LF		0	4	64	0
		1190	Abrasion-Wear (PSC-RC) South Footing along waterline has heavy abrasion, with aggregate missing, exposed rebar and heavy SL of the rebar. Joint between footing and abutment (both north and south) is abraded.	LF		0	0	64	0
		6000	Scour South abutment undermined up to 1'0" under footing for 2/3 of width of structure. Cannot tell, but there does not appear to be piling, so the assumption is this is a spread footing. North abutment has footing exposed **Slight** undermining **of North Abutment, about 3-6 in**	LF		0	0	48	20
X	**330**		**Metal Bridge Rail** Continuous Beamguard over bridge (Not connected to structure). One block broken on NW side (off bridge). Some deformations (pack rust) of beamguard, but is performing its intended function.	LF	22	22	0	0	0
X	**8400**		**Integral Wingwall** **Erosion behind upstream wingwall**	EA	4	0	2	2	0
		8903	Wall Deterioration Spalls at wing to abutment connections typical throughout. Large spalls in NE and SE Wings (see photos). Spall at end of NW wing near construction joint.	EA		0	2	2	0

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Structure No.:**C-13-2023**

Assessments

Chk	Element	Defect	Description	UOM	Total	Quantity in Condition State 1	2	3	4
X	**9001**		**Drainage - Ends of Structure** NW corner has some erosion behind wing.	EA	4	3	1	0	0
X	**9030**		**Signs - Object Markers** All but one marker needs re-adjustment; leaning away from roadway.	EA	4	1	0	3	0
X	**9323**		**Approach Roadway - Asphalt** Settled on North End.	EA	2	1	1	0	0

NBI Ratings

	File	New
Deck	7	7
Superstructure	7	7
Substructure	3	3
Culvert	N	N
Channel	8	8
Waterway	8	8

Structure Specific Notes

Scour hole forming under south abutment.

Inspection Specific Notes

Inspector Site-Specific Safety Considerations

Structure Inspection Procedures

Special Requirements

	Chk	Hours	Cost	Comments
Other Access Equipment	X			Hip Waders

Structure No.:**C-13-2023**

Underwater Probe Form
C-13-2023

General Site Conditions - Scour

Scour evident under south abutment.

General Site Conditions - Embankment Erosion/Conditions

Stable.

Substructure Notes

Chk	Unit	Max Water Depth(ft)	Mode	Notes
X	Cardinal	2.5	Wade	
X	Non Cardinal	2.5	Wade	

Culvert

Document Comment/Description

Roadway over Structure

Culvert

Document Comment/Description

West end of Structure.

Culvert

Document Comment/Description

NW Wing Extension construction joint.

Culvert

Document Comment/Description

North Footing to NW wing interface with abrasions and spalls.

Culvert

Document Comment/Description

North Footing.

Culvert

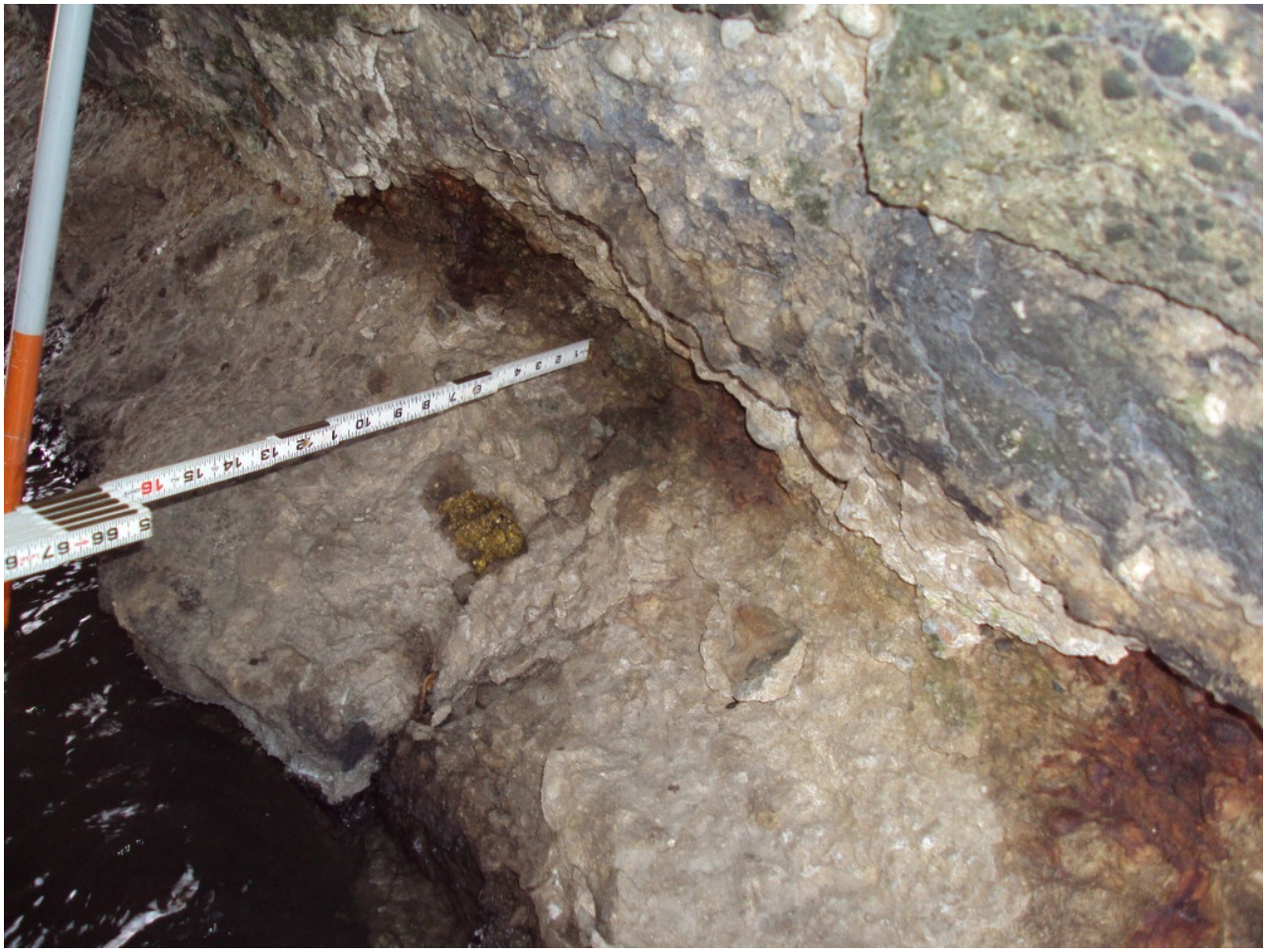
Document Comment/Description

South Footing (undermined).

Culvert

Document Comment/Description

Typical cracks, abrasions, and deterioration of footing to abutment wall interface.



Culvert

Document Comment/Description

Spalls and delaminations of widened portion of slab

Culvert

Document Comment/Description

Typical footing

Culvert

Document Comment/Description

Typical Footing.

Culvert

Document Comment/Description

NE Corner of bridge.

Culvert

Document Comment/Description

NE Wing to abutment interface

Culvert

Document Comment/Description

SE Wing to abutment interface.

Culvert

Document Comment/Description

NE Wing to abutment interface.

Culvert

Document Comment/Description

East side slab widening.

Culvert

Document Comment/Description

East end of bridge.

Culvert

Document Comment/Description

NW Wing erosion

Culvert

Document Comment/Description

NW Wing erosion.

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