

Inspector: Bardall,Jay

Inspection Date: 10/18/2023

Structure Number: 7900511

Facility Carried: US 36 RAMP

Ohio Bridge Inspection Summary Report**TUS-00036-1817J (7900511)**2: District 78176 - UHRICHSVILLE (TUS county)
ict
11

5A: Inventory Route 1 00036

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 01 - State Highway Agency /
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 117: Facility On US 36 RAMP
6: Feature Ints BIG STILLWATER CR(RAMP J
9: Location ON RAMP J AT JCT. US 250
Lat, Lon 40.40253 , -81.34965

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	2 - Concrete continuous
58.01 Wearing Surface	7 - Good (1% distress)		01 - Slab
58.02 Joint	N- Not Applicable		N- Not Applicable
59: Superstructure	7 - Good Condition	45: Spans Main / Approach	4 / 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	6 - Satisfactory Condition	408: Composite Deck	N - Non-composite Construction
61: Channel	8	414A Joint Type 1	N - None
61.01 Scour	7 - Good	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck) 2- MicroSilica

67.01 GA

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Appraisal			
Sufficiency Rating	84.6	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	0	1 1
72: Approach Alignment	8 - Equal to present desirable criteria		
113: Scour Critical	8 - Stable for scour conditions		
71: Waterway Adequacy	8 - Bridge Above Approaches		

422: WS Date	08/01/1996
423: WS Thick (in)	1.3
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	A - Cast-in-Place Reinforced Concrete Piles (12" diameter)
533: Foundn: Abut Rear	A - Cast-in-Place Reinforced Concrete Piles (12" diameter)
536: Foundn: Pier 1	A - Cast-in-Place Reinforced Concrete Piles (12" diameter)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	45.0
49: Structure Length (ft)	164.0
52: Deck Width, Out-To-Out (ft)	38.3
424: Deck Area (sf)	6281.2
32: Appr Roadway Width (ft)	42.0
51: Road Width, Curb-Curb (ft)	33.7
50A: Curb/SW Width: Left (ft)	1
50A: Curb/SW Width: Right (ft)	1
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service	
27: Year Built/ 106 Rehab	1969 / 0000
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	0
29: ADT	1000
109: % Trucks (%)	

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	120
704: Analysis Date	05/01/2023
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF)

Inspections			
		Months	
90: Routine Insp.		12	10/18/2023
92A: FCM Insp.	N	0	
92B: Dive Insp.	N	60	05/03/2022
92C: Special Insp.	N	0	
92D: UBIT Insp.	N	0	
92E: Drone Insp.	N	0	
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method using HL-93 loadings.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38-Reinforced Concrete Slab	3 - Mod.	6275	sq. ft.	5625	602	48	0
HORIZONTAL CRACKS AND BRAKING OUT AT CONSTRUCTION JOINTS BETWEEN DECK FLOOR AND ABUTMENTS. CRACKING, SEEPAGE AND DELAMINATION AT CENTERLINE AND ELSEWHERE WITH EFFLORESCENCE. 2023 INSP: SPAN 1: CS2- 24 SF OF LONGITUDINAL CRACKS WITH LIGHT EFFLO. SPAN 2: CS3- 48 SF CRACKED AND DELAMINATED AREA WITH RUST STAINS AT CL. SPAN 3: CS2- 8 SF CRACKED AND DELAMINATED AREA AT CL. SPAN 4: CS2- 24 SF OF LONGITUDINAL CRACKS WITH EFFLO AT CL.							
510-Wearing Surfaces		5522	sq. ft.	5243	276	3	0
A FEW RANDOM CRACKS. CS3- 2 SF OF POTHOLES AT FWD DECK JOINT, PATCHED WITH ASPHALT.							
210-Reinforced Concrete Pier Wall	3 - Mod.	48	ft.	48	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	109	ft.	87	22	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	115	ft.	110	5	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	2100	sq. ft.	2018	82	0	0
330-Metal Bridge Railing	3 - Mod.	328	ft.	327	1	0	0
331-Reinforced Concrete Bridge Railing	3 - Mod.	328	ft.	328	0	0	0
815-Drainage	3 - Mod.	12	each	10	2	0	0
840-Approach Slab: Termination or Joint	3 - Mod.	76	ft.	76	0	0	0

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ODOT District: District 11

Major Maint: 01 - State Highway Agency

Routine Maint: 01 - State Highway Agency

FIPS Code: 78176 - UHRICHSVILLE (TUS county)

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Feature Inters: BIG STILLWATER CR(RAMP J Traffic Under: 5 - Waterway

Location: DISTRICT 11

ON RAMP J AT JCT. US 250

Inspector

Bardall,Jay

Inspection Date 10/18/2023

Reviewer Trivoli,Raymond

Date Built: 07/01/1969

Rehab Date:

Insp. 01 - State Highway Agency

Resp A:

Insp

Resp B:

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

HORIZONTAL CRACKS AND BRAKING OUT AT CONSTRUCTION JOINTS BETWEEN DECK FLOOR AND ABUTMENTS. CRACKING, SEEPAGE AND DELAMINATION AT CENTERLINE AND ELSEWHERE WITH EFFLORESCENCE. **2023 INSP: SPAN 1: CS2-** 24 SF OF LONGITUDINAL CRACKS WITH LIGHT EFFLO. **SPAN 2: CS3-** 48 SF CRACKED AND DELAMINATED AREA WITH RUST STAINS AT CL. **SPAN 3: CS2-** 8 SF CRACKED AND DELAMINATED AREA AT CL. **SPAN 4: CS2-** 24 SF OF LONGITUDINAL CRACKS WITH EFFLO AT CL.

Bridge Wearing Surface (SF)

A FEW RANDOM CRACKS. CS3- 2 SF OF POTHOLES AT FWD DECK JOINT, PATCHED WITH ASPHALT.

Bridge Railing (LF)

HAIRLINE CRACKING IN CONCRETE. ALUMINUM RAIL ON TOP OF CONCRETE RAIL. ONE SPLICE IS MISSING ON RT (MID-SPAN).

Deck Drainage (EA)

HEAVY RUST ON DOWNSPOUT BOTTOMS.

Approach

Approach Wearing Surface (EA)

NEW ASPHALT IN 2021.

Approach Slab (SF)

ASPHALT COVERED. NEW ASPHALT IN 2021. BREAKING UP AT DECK JOINTS, FWD AND REAR.

Approach Embankment (EA)

WASHING OUT @ RT FWD AND REAR WINGWALL. REPAIRED IN 2017.

Inspector Comments - General Appraisal

Superstructure

Slab (SF)

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Substructure

Abutment Walls (LF)

REPAIRED AND SEALED '13. SHALLOW SPALLS AT FWD AND REAR. SMALL SPALL ON RT FWD WINGWALL. **2023 INSP: CS2-** 10 LF OF SHALLOW SPALLS AT FWD CONSTRUCTION JOINT. 12 LF OF SHALLOW SPALL AT REAR CONSTRUCTION JOINT (22 LF).

Pier Caps (LF)

MINOR CRACKS AND MINOR SEEPAGE.

Substructure Scour (EA)

UNDERWATER INSPECTION IN 1997. PROBED DURING LOW WATER 10/27/14 HIT TOP OF FOOTER THRU 2' OF MUCK CENTER PIER. WATER HIGH IN 2018, 19.

2022: Pier

2:The

submerged portions of the pier exhibited light scaling up to 1/16 in. deep from the channel bottom to 2 in. above the waterline. Heavy timber debris accumulation consisting of a tree with diameter up to 2 ft and approximately 50 ft long was observed resting on the upstream nose and all along the east face apron of the pier. The footing on the east face of the pier was exposed from the upstream nose to the downstream nose. At the upstream nose, the footing was exposed for up to 1.8 ft vertical before getting covered by timber debris. The footing was exposed 1.3 ft vertical at the midpoint of the east face of the pier. A

scour depression was observed on the west face of the pier. **Pier**

3: The

submerged portions of the pier exhibited light scaling up to 1/16 in. deep from the channel bottom to 2 in. above the waterline.

Slope Protection (EA)

NEW STONE PROTECTION '13.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

2021INSP: LARGE LOG AGAINST FWD PIER AND LAYING ON FWD SLOPE.

Channel

Scour Critical