

Inspector: Bardall,Jay

Inspection Date: 10/24/2023

Structure Number: 7901534

Facility Carried: SR 39

Ohio Bridge Inspection Summary Report**TUS-00039-1294 (7901534)**2: District 55216 - NEW PHILADELPHIA (TUS county)
ict
11

5A: Inventory Route 1 00039

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 04 - City or Municipal Highway /
Agency
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 117: Facility On SR 39
6: Feature Ints TUSCARAWAS RIVER
9: Location 0.10 MI. E. OF IR 77
Lat, Lon 40.493511 ,-81.476597

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	7 - Good (1% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	7 - Good (no leaking)		N- Not Applicable
59: Superstructure	6 - Satisfactory Condition	45: Spans Main / Approach	6 / 0
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	7 - Good Condition	408: Composite Deck	Y - Composite Construction
61: Channel	6	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	7 - Good	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
			N- Not Applicable
67.01 GA	6	422: WS Date	11/22/1996

Appraisal				
Sufficiency Rating	92.2	SD/FO	0 - ND	
36: Rail, Tr, Gd, Term Std	1	1	1	1
72: Approach Alignment	7 - Better than present minimum criteria			
113: Scour Critical	8 - Stable for scour conditions			
71: Waterway Adequacy	8 - Bridge Above Approaches			

Geometric	
48: Max Span Length (ft)	80.0
49: Structure Length (ft)	452.5
52: Deck Width, Out-To-Out (ft)	69.0
424: Deck Area (sf)	31222.5
32: Appr Roadway Width (ft)	61.0
51: Road Width, Curb-Curb (ft)	61.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	5
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

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 (%)	150
704: Analysis Date	07/01/1996
63: Analysis Method	6 - Load Factor (LF) rating reported by

423: WS Thick (in)	1.0
482: Protective Coating	9 - Paint System IZEU
483: PCS Date	05/15/1997
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	B - Fixed
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)

Age and Service	
27: Year Built/ 106 Rehab	1956 / 1996
42A: Service On	5 - Highway-pedestrian
42B: Service Under	5 - Waterway
28A: Lanes on	04
28B: Lanes Under	00
19: Bypass Length	6
29: ADT	16740
109: % Trucks (%)	10

Inspections			
		Months	
90: Routine Insp.		12	10/24/2023
92A: FCM Insp.	N	0	
92B: Dive Insp.	N	60	06/29/2022
92C: Special Insp.	N	0	
92D: UBIT Insp.	Y	60	04/11/2022
92E: Drone Insp.	Y	24	03/15/2021

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	rating factor (RF) method using MS18 loading.		

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TUS-00039-1294 _(7901534)

ODOT District: District 11

Major Maint: 01 - State Highway Agency

Facility Carried: SR 39

Traffic On: 5 - Highway-pedestrian

Date Built: 07/01/1956

Rehab Date: 11/22/1996

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: TUSCARAWAS RIVER

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 55216 - NEW PHILADELPHIA (TUS county)

Location: DISTRICT 11

0.10 MI. E. OF IR 77

Insp
Resp B:

Inspector

Bardall,Jay

Inspection Date 10/24/2023

Reviewer Trivoli,Raymond

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

HAIRLINE TRANSVERSE CRACKS W/EFFLOR SHOWING, SOME 2'-4' SPACING. CRACKING ON OUTSIDE EDGES WITH EFFLOR.

WEARING SURFACE (SF)

CS2-HL CRACKS OVER PIERS. CS3-6SF SPALL AT RT FWD, NEAR EXPANSION JOINT, PATCHED WITH ASPHALT.

Curbs/Sidewalk (LF)

Walk rt only. Small spalls top edge of curb mid span and some hairline vertical and transverse cracks. Curb broken and humped up at fwd right end of approach. Dirt on the right sidewalk.

Bridge Railing (LF)

33" HIGH WALL ON STR. CS2- MINOR VERTICAL CRACKS. TUBULAR ALUMINUM TOP RAIL ON RIGHT SIDE HAS COLLISION DAMAGE BENDING ONE SECTION OUTWARD AT REAR IN2ND SPAN. CS3- SM BROKEN OUT PLACE @ BOTTOM LT SIDE, TOWARDS FWD END

Deck Drainage (EA)

WATER PONDING ALONG OUTSIDE LT EDGE (60LF).

Expansion Joint (LF)

DIRT CLOGGED IN BOTH JOINTS. MINOR RUST ALONG EDGES

Approach

Approach Wearing Surface (EA)

New asphalt in 2020.

APPROACH SLABS (SF)

CS2- (97 SF) OF LONGITUDINAL CRACKS CS3- (40 SF) OF ASPHALT PATCHES AT FWD. (24

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SF) OF ASPHALT PATCHES AT REAR.

Approach Embankment (EA)

Washing out and erosion of slopes just off the bridge. Much washing out of embankment at right forward by storm sewer pipe outlet, the end pipe @ this outlet has come apart.

Approach Guardrail (EA)

MINOR COLLISION DAMAGE TO LT REAR (2 PANELS) AND RT REAR (1 PANEL). MINOR COLISION DAMAGE TO LT FWD. Broken block at rt fwd turn radius.

Inspector Comments - General Appraisal

Superstructure

Beams/Girders (LF)

8 BEAMS. SEVERE OLD LOSS OF SECTION ON 3RD BEAMS IN FROM RIGHT AND LEFT SIDES, WOULD HAVE BEEN OUTSIDE BEAMS ON ORIGINAL STRUCTURE. SEE PHOTOS 4,5,7

Diaphragm/X-Frames (EA)

Bent crossframe in forward span.

Bearing Devices (EA)

FWD 1ST AND 2ND ROCKER FROM RIGHT HAS SEVERE TILT TOWARDS REAR. RUST DUST ON MANY. BEARINGS 1,4, AND 5, AT REAR, EXCESSIVE TILTING.2023 INSP: CS2- Minor corrosion. CS3- Fwd bearing 7 and 8 are tilted towards rear. Rust dust on many. Bearings 1,4,and 5, at rear, excessive tilting.

Protective Coating System (LF)

IZEU, 5-97. A LITTLE RUST, LESS THAN 1%.

Fatigue (LF)

Beam weld over piers on 4 interior beams.

Utilities (LF)

In good condition, light rust on cover. Re-wrapped some joints of the 4" gas line in 2018.

Substructure

Abutment Walls (LF)

HORIZONTAL CRACKS IN FORWARD ABUTMENT WITH DELAMINATION AT EDGE (14LF). VERTICAL CRACK WITH DELAMINATION IN REAR AT CENTER OF ABUTMENT. RUST STAINS.

Pier Walls (LF)

VERTICAL CRACKS IN OLD SECTIONS. SEE PHOTOS 10,15. CS3- RUST STAINS. VERTICAL CRACK IN ALL

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WALLS AT CENTER WITH WIDEST IN FWD PIER 1/8".

Backwalls (LF)

VERTICAL CRACKS W/EFFLOR. CRACKS ON TOP WITH BREAKING OUT AT EDGES.

Substructure Scour (EA)

Probed 2014. No footers exposed. Probed pier 3, 4, & 5 from rear 19, 2020, 2023. Could not get to 1 & 2 high water.

Slope Protection (EA)

Washing away of slope protection at right forward. 2 sections of storm sewer are dislocated due to the erosion of the slope.

2022: Piers 2 through 6: The

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

5: Moderate

timber debris accumulation consisting of logs up to 24 in. diameter from the channel bottom to 4 ft above the waterline was observed on the upstream nose, east face, and west face of the pier. **Pier**

6: Light

timber debris accumulation consisting of branches up to 6 in. diameter from the channel bottom to 2 ft above the waterline was observed on the upstream nose and east face of the pier. A

scour depression up to 6 ft diameter by 3 ft deep was observed at the downstream nose of Pier 6.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

TREE LODGED IN BAY 2 FROM REAR.

Channel

Scour Critical

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Bridge Inspection Report

Pictures