

Inspector: Spisak,Vince

Inspection Date: 10/26/2023

Structure Number: 4774760

Facility Carried: LORAIN ROAD

Ohio Bridge Inspection Summary Report**LOR-M0010-2044 (4774760)**2: District 56966 - N RIDGEVILLE (LOR county)
ict
03

5A: Inventory Route 1 M0010

21: Major Maint A/B 04 - City or Municipal Highway /
Agency

7: Facility On LORAIN ROAD

225 Routine Main A/B 04 - City or Municipal Highway /
Agency

6: Feature Ints CONRAIL RR - LORAIN ROAD

221 Inspection A/B 04 - City or Municipal Highway /
Agency

9: Location 0.2 MI E. OF BAGLEY ROAD

220: Inv. Location CITY OF NORTH RIDGEVILLE

Lat, Lon 41.3751836298661 , -81.9890923636306

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	7 - Good Condition	45: Spans Main / Approach	3 / 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	N	414A Joint Type 1	8 - Elastomeric Strip Seal
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)

67.01 GA 7

Appraisal		422: WS Date	01/01/1998
Sufficiency Rating	69.3 SD/FO 0 - ND	423: WS Thick (in)	1.0
36: Rail, Tr, Gd, Term Std	1 1 1 1	482: Protective Coating	9 - Paint System IZEU
72: Approach Alignment	6 - Equal to present minimum criteria	483: PCS Date	
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	C - Elastomeric (laminated)
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None
Geometric		528: Foundn: Abut Fwd	A - Cast-in-Place Reinforced Concrete Piles (12" diameter)
48: Max Span Length (ft)	97.5	533: Foundn: Abut Rear	A - Cast-in-Place Reinforced Concrete Piles (12" diameter)
49: Structure Length (ft)	259.6	536: Foundn: Pier 1	4 - Spread Footing (on soil)
52: Deck Width, Out-To-Out (ft)	67.0	539: Foundn: Pier 2	N - None (Such as most Culverts)
424: Deck Area (sf)	17393.2		

Age and Service	
32: Appr Roadway Width (ft)	52.0
51: Road Width, Curb-Curb (ft)	52.0
50A: Curb/SW Width: Left (ft)	6.4
50A: Curb/SW Width: Right (ft)	6.4
34: Skew (deg)	42
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	22.33
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0
27: Year Built/ 106 Rehab	1998 / 0000
42A: Service On	5 - Highway-pedestrian
42B: Service Under	2 - Railroad
28A: Lanes on	04
28B: Lanes Under	00
19: Bypass Length	2
29: ADT	13716
109: % Trucks (%)	4

Load Posting		Inspections	
41: Op/Post/Closed	A - Open	90: Routine Insp.	Months 24 10/26/2023
70: Posting	5 - Equal to or above legal loads	92A: FCM Insp.	N 0
70.01: Date		92B: Dive Insp.	N 0
70.02: Sign Type		92C: Special Insp.	N 0
734: Percent Legal (%)	150	92D: UBIT Insp.	N 0
704: Analysis Date	05/24/2019	92E: Drone Insp.	N 0
8 - Load and Resistance Factor Rating		Inspector	Spisak,Vince

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63: Analysis Method	(LRFR) rating report by rating factor (RF) method using HL-93 loadings.		

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ODOT District: District 03

LOR-M0010-2044 _(4774760)

Date Built: 07/01/1998

Major Maint: 04 - City or Municipal Highway
Agency

Facility Carried: LORAIN ROAD

Traffic On: 5 - Highway-pedestrian

Rehab Date:

Routine Maint: 04 - City or Municipal Highway
Agency

Feature Inters: CONRAIL RR - LORAIN ROAD

Traffic Under: 2 - Railroad

Insp. 04 - City or Municipal
Resp A: Highway Agency

FIPS Code: 56966 - N RIDGEVILLE (LOR county)

Location: CITY OF NORTH
RIDGEVILLE

0.2 MI E. OF BAGLEY ROAD

Insp
Resp B:

Inspector

Spisak,Vince

Inspection Date 10/26/2023

Reviewer Homan,Christopher

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

- Cracks with efflorescence at abutments.

Bridge Wearing Surface (SF)

- Small holes 75 feet from rear abutment in northernmost lane and over pier 1 in southernmost lane.

Curbs/Sidewalk (LF)

- Cracks throughout
- Spall at SW curb
- Broken north and south curbs at east expansion joint.

Bridge Railing (LF)

- Cracks and spalls in parapet.
- Vandal protection fence has many pipe railing connections rusted completely through at posts and horizontal rails (Worst at NW and towards bottom of posts). Almost all fence rail and post connections below 5 ft. above the bridge deck are completely rusted through and broken.
- Vines growing through fence at NW corner

Deck Drainage (EA)

- Evidence of ponding along curbs.

Expansion Joint (LF)

- Some debris in joints (mostly at curbs).

Approach

Approach Wearing Surface (EA)

- Cracks and spalls in concrete approaches.

Approach Slab (SF)

- Minor longitudinal cracks both rear and forward.
- spalls at edges and along both backwalls.
- spall along north approach roadway.
- Curbs broken with large spall at NW and SE.

Approach Relief Joint (LF)

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- Spalls and rutting.
- South relief joint has pulled away from concrete on both sides

Approach Embankment (EA)

- Settlement at ends

Approach Guardrail (EA)

- Vehicle damage at southeast and northeast.

Inspector Comments - General Appraisal

Superstructure

Bearing Devices (EA)

- Nut on anchor bolt at Forward Abutment under Beam 2 and 4 cannot be tightened because of clearance issues.
- Nuts on anchor bolts at Rear Abutment under Beam 2.

Protective Coating System (LF)

- The weathering steel beams are beginning to show some discoloration.
- Paint on ends is faded.

Substructure

Abutment Walls (LF)

- Vertical cracks with efflorescence

Abutment Caps (LF)

- Debris at ends of abutment.
- Small spalls typ.

Pier Caps (LF)

- Minor spalls and rust staining from bearings and beams.

Pier Columns/Bents (EA)

- Minor cracks on pier columns typ.
- Minor map cracking on columns 3 and 4 from the north end of Pier 2.
- Spall at top of column 3 from south end of Pier 1.

Backwalls (LF)

- Cracks with efflorescence and staining.
- Spall at north side of forward abutment

Slope Protection (EA)

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- Trees growing under bridge on slopes.
- Footer Exposed at S end of RA

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

Scour (EA)

- Bridge is listed as "not over waterway"

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Bridge Inspection Report

Pictures



PHOTO 1

Description



PHOTO 1

Description

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Bridge Inspection Report

Pictures



PHOTO 1

Description



PHOTO 1

Description Deck Underside

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Bridge Inspection Report

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PHOTO 2

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PHOTO 2

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PHOTO 2

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PHOTO 3

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Bridge Inspection Report

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PHOTO 3

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PHOTO 3

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Bridge Inspection Report

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PHOTO 4

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PHOTO 4

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PHOTO 4

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PHOTO 5

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PHOTO 5

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PHOTO 6

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Bridge Inspection Report

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PHOTO 7

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PHOTO 8

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Bridge Inspection Report

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PHOTO 9

Description