

Inspector: Miller,Jason

Inspection Date: 10/20/2023

Structure Number: 4305078

Facility Carried: COUNTY LINE RD

Ohio Bridge Inspection Summary Report

LAK-00090-2920 (4305078)

2: District 46494 - MADISON TWP (LAK county)
ict
12

5A: Inventory Route 1 00141

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 12

7: Facility On COUNTY LINE RD
6: Feature Ints IR 90
9: Location 6.5 MI E GRAND RIVER
Lat, Lon 41.763739 ,-81.002807

Condition	Structure Type
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58: Deck **5 - Fair Condition**
58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)
58.02 Joint 4- Poor (heavy leaking, offset)
59: Superstructure **7 - Good Condition**
59.01 Paint & PCS 6 - Satisfactory (5-10% corr.)
60: Substructure **5 - Fair Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**
67.01 GA **5**

43: Bridge Type 4 - Steel continuous
02 - Stringer/Multi-beam or Girder
N- Not Applicable
45: Spans Main / Approach 4 / 0
107: Deck Type 1 - Concrete Cast-in-Place
408: Composite Deck N - Non-composite Construction
414A Joint Type 1 2 - Sliding Metal Plate Angle
414B: Joint Type 2 N - None
108A: Wearing Surface 3 - Latex Concrete or similar additive
N- Not Applicable

Appraisal

Sufficiency Rating 72.6 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std 1 1 1 1
72: Approach Alignment 8 - Equal to present desirable criteria
113: Scour Critical N - Not over waterway
71: Waterway Adequacy N - Not Applicable

422: WS Date 05/01/1990
423: WS Thick (in) 1.2
482: Protective Coating 5 - Paint System OZEU
483: PCS Date 01/01/1989
453: Bearing Type 1 2 - Rockers & Bolsters
455: Bearing Type 2 N - None
528: Foundn: Abut Fwd 4 - Spread Footing (on soil)
533: Foundn: Abut Rear 4 - Spread Footing (on Soil)
536: Foundn: Pier 1 4 - Spread Footing (on soil)
539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 83.0
49: Structure Length (ft) 302.0
52: Deck Width, Out-To-Out (ft) 30.3
424: Deck Area (sf) 9150.6
32: Appr Roadway Width (ft) 26.0
51: Road Width, Curb-Curb (ft) 26.3
50A: Curb/SW Width: Left (ft) 0
50A: Curb/SW Width: Right (ft) 0
34: Skew (deg) 10
33: Bridge Median 0 - No median
54B: Min Vert Underclearance (ft) 16.38
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 1959 / 0000
42A: Service On 1 - Highway
42B: Service Under 1 - Highway, with or w/out pedestrian
28A: Lanes on 02
28B: Lanes Under 04
19: Bypass Length 2
29: ADT 1000
109: % Trucks (%) 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 07/01/1995
63: Analysis Method 6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections

90: Routine Insp. *Months* 12 10/20/2023
92A: FCM Insp. N 0
92B: Dive Insp. N 0
92C: Special Insp. N 0
92D: UBIT Insp. N 0
92E: Drone Insp. N 0

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	9161	sq. ft.	4561	3500	1100	0
	Timber sub-decked only over traffic. CS2- Transverse cracks. A few small full depth repairs. CS3-Mottled areas with stalactites, delams, spalls. Heavy map cracked areas.						
805-Wearing Surface - Monolithic Concrete		7953	sq. ft.	4843	2500	500	110
	CS2- Cracks. CS3- Wide cracking. Shallow spalls throughout . A few delams. CS4- Small asphalt patches, as large as 3sf throughout.						
107-Steel Open Girder/Beam	3 - Mod.	1156	ft.	1036	120	0	0
	CS2- Rust initiated at some beam ends. Areas of surface rust throughout.						
515-Steel Protective Coating		10548	sq. ft.	0	9998	500	50
	CS2- Chalking. Freckled rust. CS3- Blistered paint. CS4- Surface rust.						
205-Reinforced Concrete Column	3 - Mod.	9	each	7	1	1	0
	CS2- P1C3=4 sf delam at top. CS3- P1C2=20 sf delam with leaching cracks.						
521-Concrete Protective Coating		1187	sq. ft.	0	0	0	1187
	CS4- Not effective.						
215-Reinforced Concrete Abutment	3 - Mod.	62	ft.	33	10	14	5
	CS2- Cracks. CS3- 3 sf spall in forward bay 2. Spall to rear-left cheekwall. A few delams. Wide horizontal crack in rear bay 1. Rust leaching and efflorescence built up cracks at forward. CS4- 15 sf by 9" deep spall with 360° rebar exposure with rusting section loss in rear bay 3.						
521-Concrete Protective Coating		248	sq. ft.	0	0	0	248
	CS4- Not effective.						
234-Reinforced Concrete Pier Cap	3 - Mod.	99	ft.	96	2	1	0
	CS2- A few cracks. CS3- 1 sf spall with exposed rebar to north face of P3.						
521-Concrete Protective Coating		900	sq. ft.	0	0	0	900
	CS4- Not effective.						

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305-Assembly Joint without Seal	3 - Mod.	56	ft.	8	0	0	48
<p>Rear riser bar is loose and bangs in NB lane.</p> <p>CS3- Rusting section loss. Areas of collision damage to rear riser bar. Gouges to forward and rear riser bars. Forward deck armor slightly lower than approach armor.</p> <p>CS4- The SB rear header has been replaced with asphalt. The forward header has been replaced with asphalt patch. 1' riser bar missing at rear in NB lane. Rear joint closed.</p>							
311-Movable Bearing	3 - Mod.	16	each	0	9	7	0
<p>CS2- Stacked shim plates under forward rockers. Surface rusting to all.</p> <p>CS3- Heavy rusting with some pack rust to rockers at both abutments.</p>							
313-Fixed Bearing	3 - Mod.	4	each	0	4	0	0
<p>Fixed at P2.</p> <p>CS2- Surface rust.</p>							
321-Reinforced Concrete Approach Slab	3 - Mod.	1400	sq. ft.	965	400	0	35
<p>Bounce onto bridge at rear. Deck is 1" higher than rear slab. Slab is 1/2" higher than deck at forward.</p> <p>CS2- Scaling at rear.</p> <p>CS3-</p> <p>CS4- Asphalt patched longitudinal spall that is full length at rear. Asphalt patch at forward in NB lane.</p>							
330-Metal Bridge Railing	3 - Mod.	604	ft.	604	0	0	0
331-Reinforced Concrete Bridge Railing	3 - Mod.	604	ft.	545	45	14	0
<p>CS2- Cracks. delaminated areas.</p> <p>CS3- Spalls. Failed patches with exposed wire mesh to both rails.</p>							
521-Concrete Protective Coating		3020	sq. ft.	0	0	0	3020
<p>CS4- Not effective.</p>							
815-Drainage	3 - Mod.	12	each	6	6	0	0
<p>Debris/dirt in bulb angle. Concrete debris in both berms.</p> <p>CS2- Partially plugged scuppers.</p>							
830-Abutment Backwall	3 - Mod.	62	ft.	0	46	16	0
<p>CS2- Leaching cracks, rust stains, delams. Patch at rear in bays 2 and 3. Most height, full width patch at forward.</p> <p>CS3- Spalls with exposed rebar as deep as 4" at rear and one at forward.</p>							
521-Concrete Protective Coating		248	sq. ft.	0	0	0	248
<p>CS4- Not effective.</p>							

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ODOT District: District 12

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Date Built: 07/01/1959

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: IR 90

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 46494 - MADISON TWP (LAK county)

Location: DISTRICT 12

6.5 MI E GRAND RIVER

Insp Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Curbs/Sidewalk

Leaching cracks. Shallow spalls.

Approach

Approach Wearing Surface

Many cracks, most sealed. Areas of asphalt break up. Asphalt rusting to both.

Approach Embankment

Settlement as great as 2.5" of both forward approach rails.

Approach Guardrail

Minor collision damage to forward-left. Post rot. Note: both forward guardrails are 22" high.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames

Rusting section loss to some endframes.

Fatigue

Welded cover plates at piers (rusty welds).

Substructure

Wingwalls

Spalled / crumbling concrete at forward-right. Spall with exposed mesh at rear left corner.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures