

Ohio Bridge Inspection Summary Report

LAK-00090-1007 (4304144)

2: District 40670 - KIRTLAND HILLS (LAK county)
 ict
 12

5A: Inventory Route 1 M0502

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 CHILLICOTHE RD
 6: Feature Ints I-90
 9: Location .7 MI. E SR615
 Lat, Lon 41.647814 , -81.328094

Condition	Structure Type
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58: Deck **6 - Satisfactory Condition**
 58.01 Wearing Surface 7 - Good (1% distress)
 58.02 Joint 6- Satisfactory (isolated leaking)
59: Superstructure **6 - Satisfactory Condition**
 59.01 Paint & PCS 5 - Fair (10-15% corr.)
60: Substructure **7 - Good Condition**
61: Channel **N**
61.01 Scour **N - Not Applicable**
62: Culverts **N - Not Applicable**
67.01 GA **6**

43: Bridge Type 4 - Steel continuous
 02 - Stringer/Multi-beam or Girder
 N- Not Applicable
 45: Spans Main / Approach 6 / 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 79.8 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 08/31/2005
 423: WS Thick (in) 1.2
 482: Protective Coating 5 - Paint System OZEU
 483: PCS Date 10/21/2001
 453: Bearing Type 1 2 - Rockers & Bolsters
 455: Bearing Type 2 N - None
 528: Foundn: Abut Fwd 1 - Steel H Piles (Other size)
 533: Foundn: Abut Rear 1 - Steel H Piles (Other Size)
 536: Foundn: Pier 1 1 - Steel H Piles (Other size)
 539: Foundn: Pier 2 0 - Other

Geometric

48: Max Span Length (ft) 114.0
 49: Structure Length (ft) 620.0
 52: Deck Width, Out-To-Out (ft) 34.3
 424: Deck Area (sf) 21266
 32: Appr Roadway Width (ft) 28.0
 51: Road Width, Curb-Curb (ft) 28.0
 50A: Curb/SW Width: Left (ft) 2.1
 50A: Curb/SW Width: Right (ft) 2.1
 34: Skew (deg) 51
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 16.48
 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 1962 / 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 7114
 109: % Trucks (%) 8

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 (%) 125
 704: Analysis Date 09/12/2019
 63: Analysis Method 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspections

90: Routine Insp.	<i>Months</i> 12	06/09/2022
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
Inspector	Persanyi,Andrea	

Inspector: Andrea Persanyi
 Inspection Date: 06/09/2022

Structure Number: 4304144
 Facility Carried: CHILLICOTHE RD

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	21235	sq. ft.	8055	13000	180	0
	CS2- Transverse crack, some leaching. A few full depth repairs. Some areas of honeycombing. Some mottled areas.						
	CS3- Spalls, mainly in span 2. Delams over grass median.						
510 - Wearing Surfaces		17360	sq. ft.	10960	6400	0	0
	CS2- Many hairline cracks.						
107 - Steel Open Girder/Beam	3 - Mod.	2452	ft.	2407	3	36	6
	CS2- Bolted plate repair to left fascia web at P2.						
	CS3- A few drilled out cracks in beams 3 and 4 in spans 4 and 5. Rusted section loss at abutments. Some deep pitting of fascia beams at forward abutment.						
	CS4- 3 rusted thru holes as large as 3", in web of left fascia between backwall and bearing stiffeners (2 at rear 1 at fwd)						
515 - Steel Protective Coating		36658	sq. ft.	18098	18000	460	100
	CS2- Areas of fading						
	CS3- Peeling paint, rust areas						
	CS4- Bare metal rust.						
205 - Reinforced Concrete Column	3 - Mod.	20	each	20	0	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	109	ft.	97	12	0	0
	CS2- Cracks, some with rust stains.						
234 - Reinforced Concrete Pier Cap	3 - Mod.	272	ft.	261	10	1	0
	CS2- Some cracks						
	CS3- Delam at P3						
305 - Assembly Joint without Seal	3 - Mod.	24	ft.	6	18	0	0
	CS2- Minor gouges to forward deck in armor in SB lane. Some section loss.						
311 - Movable Bearing	3 - Mod.	24	each	0	24	0	0
	CS2- Surface rust, pack rust forming.						
313 - Fixed Bearing	3 - Mod.	4	each	4	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	1400	sq. ft.	1400	0	0	0
	Paved over with asphalt. Slight bounce onto bridge from rear approach.						

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Element Inspection

331 - Reinforced Concrete Bridge Railing	3 - Mod.	1240	ft.	960	250	30	0
<p>CS2- Vertical cracks, some leaching. A few areas where aluminum sleeve has slid out from post.</p> <p>CS3- Spalls, some with exposed rebar. Collision damage to right rail concrete and metal tube.</p>							
815 - Drainage	3 - Mod.	24	each	0	24	0	0
<p>CS2- Rusting thru holes to ends of downspouts. Some ponding to berms at midspan. Scuppers partially plugged.</p>							
830 - Abutment Backwall	3 - Mod.	109	ft.	93	10	6	0
<p>CS2- Cracks, some with rust stains.</p> <p>CS3- Minor spalls and delaminated areas.</p>							

ODOT District: District 12

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Date Built: 07/01/1962

Major Maint: 01 - State Highway Agency

Facility Carried: CHILLICOTHE RD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: I-90

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

Insp: 01 - State Highway Agency

FIPS Code: 40670 - KIRTLAND HILLS (LAK county)

Location: DISTRICT 12

.7 MI. E SR615

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 06/09/2022

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Curbs/Sidewalk

Minor cracks & rust stains. Many shallow spalls, some with exposed wire mesh. Concrete patches.

Approach

Approach Wearing Surface (EA)

A few cracks. Minor break up (sealed) along both EXJTS.

Approach Guardrail

Minor collision damage to rear right.

Signs

No bridge end markers.

Inspector Comments - General Appraisal

Superstructure

Superstructure Alignment

Minor horizontal misalignment of right fascia in span 2 near P1.

Diaphragm/X-Frames

Rusting section loss. Small rusted thru hole in rear bay 3 endframe.

Fatigue

Transverse web & flange welds in tension areas.

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures