

# Ohio Bridge Inspection Summary Report

**LAK-00615-0189 (4304055)**

2: District 49056 - MENTOR (LAK county)  
 12

5A: Inventory Route 1 00615

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 12

7: Facility On SR 615  
 6: Feature Ints I-90 (CENTER SR-615)  
 9: Location 3.2 MI E SR306  
 Lat, Lon 41.64615 , -81.340303

Condition	Structure Type
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**58: Deck** **8 - Very Good Condition**  
 58.01 Wearing Surface 6 - Satisfactory (1-10% distress)  
 58.02 Joint 7- Good (no leaking)  
**59: Superstructure** **8 - Very Good Condition**  
 59.01 Paint & PCS 7 - Good (1-5% corr.)  
**60: Substructure** **8 - Very Good Condition**  
**61: Channel** **N**  
**61.01 Scour** **N - Not Applicable**  
**62: Culverts** **N - Not Applicable**  
**67.01 GA** **8**

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 8 - Elastomeric Strip Seal  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 3 - Latex Concrete or similar  
 additive  
 N- Not Applicable

Appraisal
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Sufficiency Rating 96.5 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 06/30/2004  
 423: WS Thick (in) 1.2  
 482: Protective Coating 7 - Metalized (Alum/Zinc)  
 483: PCS Date 01/01/2001  
 453: Bearing Type 1 C - Elastomeric (laminated)  
 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
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48: Max Span Length (ft) 72.0  
 49: Structure Length (ft) 391.0  
 52: Deck Width, Out-To-Out (ft) 54.0  
 424: Deck Area (sf) 21114  
 32: Appr Roadway Width (ft) 40.0  
 51: Road Width, Curb-Curb (ft) 40.0  
 50A: Curb/SW Width: Left (ft) 6  
 50A: Curb/SW Width: Right (ft) 6  
 34: Skew (deg) 11  
 33: Bridge Median 0 - No median  
 54B: Min Vert Underclearance (ft) 16.92  
 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
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27: Year Built/ 106 Rehab 2001 / 2004  
 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 17402  
 109: % Trucks (%) 7

Load Posting
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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 07/01/2000  
 63: Analysis Method 7 - Allowable Stress (AS) rating reported  
 by rating factor (RF) method using MS18  
 loading.

Inspections
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90: Routine Insp.	<i>Months</i>	04/20/2022
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: 04/20/2022

Structure Number: 4304055  
 Facility Carried: SR 615

**Bridge Inspection Report**

**Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	3 - Mod.	21114	sq. ft.	20903	211	0	0
	CS2- A few cracks.						
510 - Wearing Surfaces		15640	sq. ft.	14140	1500	0	0
	CS2- Map cracking. Transverse crack in some areas at a 5' to 10' spacing. Light scaling near forward end. Minor small pop outs.						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	2346	ft.	2346	0	0	0
515 - Steel Protective Coating		21680	sq. ft.	300	21360	20	0
	CS2- Facia beams have fading and chalking. Interior beams have no finish coat. CS3- Rust initiated						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	20	each	18	1	1	0
	CS2- P5C4- scaling. CS3- P5C1- 8 SF delam with cracks.						
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	110	ft.	82	28	0	0
	CS2- Vertical cracks, some leaching, a few horizontal cracks. A few rust stained cracks at forward.						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	275	ft.	218	57	0	0
	CS2- Vertical cracks. A few other diagonal cracks. Some areas of light map cracking.						
<b>300 - Strip Seal Expansion Joint</b>	3 - Mod.	80	ft.	0	76	0	4
	CS2- Both joint full with debris. Surface rust. CS4- 2 FT torn seal leaking into rear bay 4 and forward bay 1.						
<b>310 - Elastomeric Bearing</b>	3 - Mod.	36	each	36	0	0	0
<b>313 - Fixed Bearing</b>	3 - Mod.	6	each	6	0	0	0
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	2080	sq. ft.	1175	900	5	0
	CS2- Longitudinal and transverse cracks to both. Diagonal cracks at the corners. Full length longitudinal cracks at a 2' spacing at the forward. CS3- Minor small spalls. Wide diagonal crack at forward right corner.						
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	782	ft.	577	185	20	0
	CS2- Vertical cracks thru out. A few horizontal cracks to top of rail. CS3- Minor spalls thru out.						
<b>815 - Drainage</b>	3 - Mod.	2	each	2	0	0	0
<b>830 - Abutment Backwall</b>	3 - Mod.	110	ft.	67	36	7	0
	CS2- Vertical and transverse cracks thru out. CS3- Spalls at rear bays 1 and 5, also forward bay 1,2.						
<b>840 - Approach Slab: Termination or Joint</b>	3 - Mod.	80	ft.	0	68	12	0
	CS2- Cracks, asphalt patches. CS3- Humped areas. Small potholes.						

ODOT District: District 12

## LAK-00615-0189\_(4304055)

Major Maint: 01 - State Highway Agency

Facility Carried: SR 615

Traffic On: 1 - Highway

Date Built: 07/01/2001

Rehab Date: 06/30/2004

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: I-90 (CENTER SR-615)

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

Insp: 01 - State Highway Agency

FIPS Code: 49056 - MENTOR (LAK county)

Location: DISTRICT 12

3.2 MI E SR306

Resp A:

Insp

Resp B:

Inspector

Persanyi,Andrea

Inspection Date 04/20/2022

Reviewer Seif,Youssef

### Inspector Comments - Deck and Approach

#### Deck

##### Bridge Railing (LF)

Rear right brick pedestals breaking apart. Areas of fence rusting.

##### Expansion Joint (LF)

Concrete headers/sidewalk breaking up around joint at rear right & fwd right.

#### Approach

##### Approach Wearing Surface

Transverse cracks. Asphalt patches at forward. 1" crack at rear.

##### Approach Embankment

Backfill erosion under read right wingwall. Rear left undermined as much as 18".

##### Signs

No bridge end markers.

### Inspector Comments - General Appraisal

#### Superstructure

##### Beams/Girders (LF)

Open bolt holes in webs of fascia beams in span 3 (4 in right fascia, 2 in left fascia).

##### Diaphragm/X-Frames (EA)

Xframe missing bolt in bay 4 (first from rear). Areas of surface rust.

##### Bearing Devices (EA)

Several fixed bearings on pier 3 have fasteners not fully tightened.

#### Substructure

##### Slope protection

Forward has shallow ruts under bay 1 and rear under bay 4.

##### Wingwalls (EA)

Minor cracks.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

**Inspector:** Andrea Persanyi  
**Inspection Date:** 04/20/2022

**Structure Number:** 4304055  
**Facility Carried:** SR 615

**Bridge Inspection Report**

**Pictures**