

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## BRIDGE INSPECTION FIELD REPORT

Structure File Number: 4305191

Inventory Bridge Number: LAK 00091 04.490

Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 87.3

Date Built: 7/1/1969

District: 12 Place Code (FIPS): EASTLAKE

SR 91 over LAKELAND BLVD

Type of Service on: HIGHWAY

### APPROACH ITEMS

- c1. Approach Wearing Surface (EA)
- c2. Approach Slabs (SF)
- c3. Relief Joint (LF)
- c4. Embankment (EA) d
- c5. Guardrail (EA)
- N36. Safety Features:  
Tr, Gr, Tm
- c6. Approach Summary

QTY.	condition state				cr
	1	2	3	4	TR
4	2	2		0	1.60
4500	4275	225	0	0	1.07
180	180				
4	4				1.00
4.0	4		0	0	1.00
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>6</u>

### DECK ITEMS

- c7.1 Floor/Slab (SF)
- c7.2 Edge of Floor/Slab (LF)
- c8. Wearing Surface (SF)
- c9. Curb/Sidewalk/Walkway (LF)
- c10. Median (LF)
- c11. Railing (LF)
- N36. Safety Features: Rail
- c12. Drainage (EA) d
- c13. Expansion Joint (LF) d
- N58. Deck Summary

QTY.	condition state				cr
	1	2	3	4	TR
13086.2	3796	7328	1962	0	2.43
290	271	14	5	0	1.33
12421.72	3721	8700	0		1.78
	7				
145	137	8			1.08
290	188	87	15		1.88
36)A <u>1</u>					(9-0) <u>5</u>
4	4	0	0	0	1.00
180.5	157.5	18	5	0	1.51

### SUPERSTRUCTURE ITEMS

- c14. Alignment (EA) d
- c15.1 Beams/Girders (LF)
- c15.2 Slab (SF)
- c16. Diaphragm/X-Frames (EA)
- c17. Stringers (LF)
- c18. Floorbeams (LF)
- c19. Truss Verticals (EA)
- c20. Truss Diagonals (EA)
- c21. Truss Upper Chord (EA)
- c22. Truss Lower Chord (EA)
- c23. Truss Gusset Plate (EA) d
- c24. Lateral Bracing (EA)
- c25. Sway Bracing (EA)
- c26. Bearing Devices (EA) d
- c27. Arch (LF)
- c28. Arch Column/Hanger (EA)
- c29. Arch Spandrel Walls (LF)
- c30. Prot. Coating System (LF) d
- c31. Pins/Hangers/Hinges (EA) d
- c32. Fatigue (LF) d
- N59. Superstructure Summary

QTY.	condition state				cr
	1	2	3	4	TR
3	3				1.00
1740	1374	348	18	0	1.41
150	135	15	0	0	1.14
0.00					
48.0	36	12	0	0	1.33
1740.0	1374	348	18	0	1.41
1740	1740	0	0	0	1.00
N59. Superstructure Summary					(9-0) <u>7</u>

### SUBSTRUCTURE ITEMS

- c33. Abutment Walls (LF)
- c34. Abutment Caps (LF)
- c35. Abut. Columns/Bents (EA)
- c36. Pier Walls (LF)
- c37. Pier Caps (LF)
- c38. Pier Columns/Bents (EA)
- c39. Backwalls (LF)
- c40. Wingwalls (EA)
- c42. Scour (EA) d
- c43. Slope Protection (EA) d
- N60. Substructure Summary

QTY.	condition state				cr
	1	2	3	4	TR
217.71	191.7	22	4		1.40
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
217.71	204.7	10	3		1.28
16	4	5	7	0	3.00
217.71	159.7	10	48		2.45
4	4		0	0	1.00
2	2	0	0	0	1.00
N60. Substructure Summary					(9-0) <u>5</u>

### CULVERT ITEMS

- c44. General (LF)
- c45. Alignment (LF) d
- c46. Shape (LF) d
- c47. Seams (LF) d
- c48. Headwall/Endwall (LF)
- c49. Scour (LF) d
- c50. Abutments (LF)
- N62. Culvert Summary

QTY.	condition state				cr
	1	2	3	4	TR
N62. Culvert Summary					(9-0) <u>N</u>

### CHANNEL ITEMS

- c51. Alignment (LF) d
- c52. Protection (LF) d
- c53. Hydraulic Opening (EA) d
- c54. Navigation Lights (EA) d
- N61. Channel Summary

QTY.	condition state				cr
	1	2	3	4	TR
N61. Channel Summary					(9-0) <u>N</u>

### SIGN/UTILITY ITEMS

- c55. Signs (EA) d
- c56. Sign Supports (EA) d
- c57. Utilities (LF) d

QTY.	condition state				cr
	1	2	3	4	TR
2.0	0	0	0	2	3.00
	NaN	0	0	0	
General Appraisal					(9-0) <u>5</u>
N41. Operating Status					<u>A</u>

### General Appraisal

N41. Operating Status

<b>Inspector Name</b>	Gerstenslager, Michael
<b>Inspection Date/Type</b>	11/06/2019 Routine
<b>PE Number</b>	
<b>Reviewer Name</b>	Seif, Youssef
<b>Review Date</b>	01/06/2020
<b>PE Number</b>	59487

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Key: "Qty" = Quantity for Element Level inspection; "(LF)" = Linear Feet; "(SF)" = Square Feet; "(EA)" = Each or count; "CR" = 1-4 Condition Rating or average of worst span unless Summary item 9-0, then the average of entire bridge influenced by the bold boxes; "TR" = Transition Rating or weighted average of condition states; "d" = dedicated or specific chart and guidance, all others use Material specific chart/guidance; "c" = condition prefix; "N" = NBIS rating

### Inspection Procedures

### Comments

#### APPROACH

##### c1. Approach Wearing Surface

CRACKS, AREAS OF ASPHALT BREAKING UP, ASPHALT PATCHES MAINLY AT REAR (REAR-RIGHT WORST) . SHALLOW SPALL ALONG FORWARD RISER BAR IN SB LANE 2.

##### c2. Approach Slabs

PAVED OVER. ASPHALT ALONG EXPANSION JOINTS SHOWS SIGNS OF DISTRESS.

#### DECK

##### c7.1 Floor/Slab

CRACKS, SOME LEACHING WITH STALACTITES. DELAMS. SPALLS. MOTTLED AREAS (AT LEAST 50% OF FLOOR IS SATURATED). FAILING PATCH IN BAY 7 AT REAR ABUTMENT. PATCH FORMWORK IN BAY 3. TIMBER SUBDECKED OVER TRAFFIC.

##### 2017 QA Floor inspection (MB JB)

##### c7.2 Edge of Floor/Slab

SOME CRACKS. SMALL SPALLED AREAS AT ALL 4 CORNERS.

##### c8. Wearing Surface

LONG LONGITUDINAL CRACK IN SB LANE 2. OTHER AREAS OF TRANSVERSE AND LONGITUDINAL CRACKS, SOME AS WIDE AS 1/8". CONCRETE PATCHES. WS HAS BEEN SEALED.

##### c10. Median

A FEW CRACKS.

##### c11. Railing

VERTICAL & HORIZONTAL CRACKS. MOST SEALER HAS PEELED OFF. DELAMS & SPALLS TO OUTSIDE RAILINGS. CONCRETE PATCHES TO RIGHT RAIL.

##### c12. Drainage

NOTE: DOWNSPOUTS ARE PLUGGED.

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c13. Expansion Joint

A FEW GOUGES TO ARMOR. LEAKING IN FORWARD BAY 7. NOTE: PARTIAL REPAIR TO BOTH NB JOINTS WITH PORTIONS OF EXJT HEADERS CUT AWAY. 5' OF NB JOINT DECK ARMOR AT FORWARD IN LANE 1 IS LOOSE.

SUPERSTRUCTURE

c15.1 Beams/Girders

SURFACE RUST. MINOR RUSTED SECTION LOSS AT ABUTMENTS. MINOR SCRAPE TO LOWER FLANGE OF BEAM 2 OVER CENTER LINE.

c16. Diaphragm/Cross Frames

ENDFRAME RUSTED SECTION LOSS.

c26. Bearing Devices

PACK RUST BETWEEN SHIM PLATES UNDER MASONRY PLATES & ROCKERS.

c30. Protective Coating System

SURFACE RUST. AREAS OF PEELING & PAINT RUNS.

c32. Fatigue

WELDED MOMENT PLATES AT PIERS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, SOME LEACHING. SPALLS AT FORWARD CONSTRUCTION JOINT. A FEW DELAMINATED AREAS. CONSTRUCTION DEBRIS ON SEATS BELOW MEDIAN BAY.

c38. Pier Columns/Bents

SPALLS AS LARGE AS 15 SF TO P1C5 & C6, P2C1, C2, C4, C6 & C7.  
DELAMS AS LARGE AS 20 SF TO P1C7 & C8, P2C3, C5 & C8.

c37. Pier Caps

CRACKS. DELAMS & SPALL WITH EXPOSED REBAR TO P2 CAP BELOW MEDIAN BAY.

c39. Backwalls

SPALLS / DETERIORATION AT REAR CONSTRUCTION JOINTS. 2 SF BY 3" DEEP SPALL WITH EXPOSED REBAR IN FORWARD BAY 5. 1' X 2' X 3" DEEP SPALL IN FORWARD BACKWALL IN BAY 1. 6" VOIDS UNDER EXJT ARMOR IN REAR BACKWALL ALONG ENTIRE WIDTH OF BAY 5 & SECTION OF BAY 6 AND IN FORWARD BAYS 5-7 WHERE EXJT HAS BEEN PARTIALLY REPAIRED NOTE: DECK ARMOR IS LOOSE HERE. SMALL SPALL THRU TO TOP IN BAY 5 AT REAR.

c40. Wingwalls

MINOR DELAMS & CRACKS.

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