

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## BRIDGE INSPECTION FIELD REPORT

Structure File Number: 4305167

Inventory Bridge Number: LAK 00091 04.230

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

Sufficiency Rating: 90.5

Date Built: 7/1/1969

District: 12 Place Code (FIPS): EASTLAKE

SR 91 over NSC,CSX RR N. OF US 20

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	1	3	0	0	1.82
4000	2920	1000	80	0	1.57
4	3	1			1.33
4	0	4	0	0	2.00
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
32775.9	2130	9832	1638		1.87
816	59 204	204	408		3.00
30872.1	2469 8.1	3087	3087		2.05
816	204	571.2	40.8	0	2.11
816	123	571	122		2.47
36)A <u>1</u>					(9-0) <u>6</u>
4	4	0	0	0	1.00
160.7	8	144.6	8	0	2.22

### 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
4	4				1.00
4080	408	3264	404	4	2.37
304	0	271	30	3	2.52
50	30	20	0	0	1.50
4080	0	3020	40	1020	4.00
	NaN	0	0	0	
N59. Superstructure Summary					(9-0) <u>6</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
244.8	61.8	122	61		2.61
	NaN	0	0	0	
	NaN	0	0	0	
171	161	10	0	0	1.09
367.3	349.3	18			1.07
	NaN	0	0	0	
244.8	158.8	61	25		2.14
4	4	0	0	0	1.00
2	0	2	0	0	2.00
N60. Substructure Summary					(9-0) <u>6</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	2	3.00
	NaN	0	0	0	
General Appraisal					(9-0) <u>6</u>
N41. Operating Status					<u>A</u>

### Inspector Name

Gerstenslager, Michael

Inspection Date/Type

08/15/2019 Routine

PE Number

Reviewer Name

Seif, Youssef

Review Date

09/25/2019

PE Number

59487

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION FIELD REPORT**

Structure File Number: 4305167

Inventory Bridge Number: LAK 00091 04.230

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

Sufficiency Rating: 90.5

Date Built: 7/1/1969

District: 12 Place Code (FIPS): EASTLAKE

SR 91 over NSC,CSX RR N. OF US 20

Type of Service on: HIGHWAY

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, SOME SEALED. SPALL ALONG SLAB AT REAR IN NB LANE 2. SMALL ASPHALT PATCHES .

**c2. Approach Slabs**

SOME SETTLEMENT TO FORWARD SLAB. SPALLS & ASPHALT PATCHES ALONG EXJT HEADERS. DEEP FULL WIDTH SPALL IN REAR-RIGHT SLAB. CRACKS

**c4. Embankment**

SOME EROSION & MINOR UNDERMINING AS DEEP AS 2.5' TO FORWARD-LEFT APPROACH SLAB.

**c5. Guardrail**

COLLISION DAMAGE TO ALL 4 GUARDRAIL. REAR-LEFT CONCRETE RAIL IS SLIGHTLY TIPPED OUT. 1 1/4" WIDE X 32" DEEP GAP BETWEEN FORWARD-LEFT CONCRETE APPROACH RAIL AND SLAB.

**DECK**

**c7.1 Floor/Slab**

A FEW LEACHING CRACKS. MANY MOTTLED AREAS. SOME SPALLS & DELAMS. SEVERAL SMALL FULL DEPTH REPAIRS.

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

LEACHING CRACKS. APPROX 100 SF OF SPALLS & DELAMS, MAINLY IN MEDIAN BAY. MOTTLED AREAS WITH STALACTITES ALONG LEFT EDGE IN SPAN 3.

**c8. Wearing Surface**

AREAS OF MAP CRACKS. LONGITUDINAL & TRANSVERSE CRACKS AS WIDE AS 1/16". SHALLOW POP OUT IN SB LANE #1 AT FORWARD ALONG DECK ARMOR.

**c10. Median**

SPALLS WITH EXPOSED REBAR. MANY CRACKS. DELAMS. NEOPRENE COVER IS DISPLACED IN AREAS. EDGE OF LONGITUDINAL JOINT FAILING FOR 10' OVER GRASSY AREA BETWEEN TRACKS.

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION**  
**BRIDGE INSPECTION FIELD REPORT**

Structure File Number: 4305167

Inventory Bridge Number: LAK 00091 04.230

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

Sufficiency Rating: 90.5

Date Built: 7/1/1969

District: 12 Place Code (FIPS): EASTLAKE

SR 91 over NSC,CSX RR N. OF US 20

Type of Service on: HIGHWAY

c11. Railing

MANY CRACKS, SOME LEACHING. SPALLS WITH EXPOSED REBAR & RUST STAINS TO EXTERIORS & TO LIGHT POLE BASES.

c12. Drainage

NOTE: DOWNSPOUTS ARE SEALED OVER.

c13. Expansion Joint

AREAS OF TORN SEAL. ASPHALT PATCHES IN REAR SB AND FWD NB EXJT HEADERS. REAR SEAL IS CLOSED IN SB LANE 2 AND BERM AT 82 DEGREES F.

SUPERSTRUCTURE

c15.1 Beams/Girders

SURFACE RUST. AREAS OF RUSTED SECTION LOSS. SMALL RUSTED THRU HOLE IN WEB OF LEFT FASCIA AT FORWARD ABUTMENT. RUSTED THRU HOLE TO BOTTOM OF STIFFENER OF BEAM 6 AT FORWARD ABUTMENT. RUSTED THRU HOLE IN WEB OF RIGHT FASCIA IN FRONT OF FORWARD ABUTMENT BEARING. LEFT HALF OF LOWER FLANGE OF BEAM 6 IS BENT UP AS MUCH AS 3/4" NEAR MID SPAN IN SPAN 4. BEAM 9 INTO FORWARD BACKWALL & BEAM 1 INTO REAR BACKWALL. NOTE: END OF LEFT FASCIA HAS BEEN TRIMMED AT REAR BACKWALL.

c16. Diaphragm/Cross Frames

SURFACE RUST. RUSTED SECTION LOSS TO ENDFRAMES WITH SMALL THRU HOLE IN FORWARD BAY 4. THE ANGLE TO GUSSET PLATE WELDS OF REAR ENDFRAMES ARE CRACKED IN BAY 4 & BROKEN IN BAY 6. DAMAGED LOWER ANGLE IN BAY 1 SPAN 1.

c26. Bearing Devices

SURFACE RUST. SOME PACK RUST & SECTION LOSS. SOME FORWARD ABUTMENT & PIER ROCKERS ARE SLIGHTLY TIPPED OUT AT 70°. BEARING 10 ON P3 IS TIPPED IN.

c30. Protective Coating System

SURFACE RUST. AREAS OF PEELING & FADED PAINT. NOTE: SPAN 3 WAS NOT REPAINTED.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, SOME LEACHING. RUST STAINS. SPALL WITH EXPOSED REBAR AT REAR-LEFT CORNER. DELAMS & LARGE SPALLS WITH EXPOSED REBAR TO FORWARD.

c36. Pier Walls

A FEW CRACKS.

c37. Pier Caps

**STATE OF OHIO DEPARTMENT OF TRANSPORTATION  
BRIDGE INSPECTION FIELD REPORT**

Structure File Number: 4305167

Inventory Bridge Number: LAK 00091 04.230

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

Sufficiency Rating: 90.5

Date Built: 7/1/1969

District: 12 Place Code (FIPS): EASTLAKE

SR 91 over NSC,CSX RR N. OF US 20

Type of Service on: HIGHWAY

A FEW CRACKS. NOTE: HANGING GROUND STRAPS ON BOTH P2 CAPS.

**c39. Backwalls**

CRACKS. RUST STAINS. 1 SF BY 7" DEEP SPALL AT REAR NEAR LEFT FASCIA  
& 3 SF SPALL TO FORWARD BAY 8 AT CONSTRUCTION JOINT. OTHER  
SPALLS & AREAS OF DETERIORATION, MAINLY TO FORWARD.

**c43. Slope Protection**

BOTH ABUTMENT FOOTERS EXPOSED IN AREAS AS MUCH AS 19",  
PARTIALLY COVERED BY RIP-RAP.