

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 4301714

Inventory Bridge Number: LAK 00002 16.560 R

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

Sufficiency Rating: 81.3

Date Built: 7/1/1964

District: 12 Place Code (FIPS): PAINESVILLE

SR2 over GRAND RIVER

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
2	1.9	0.1			1.07
1500	1500				1.00
60	60				
4	4				1.00
4	4				1.00
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>9</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
9783.00	8706.3	978.3	97.8		1.29
530	530	0	0	0	1.00
7950	7155	795			1.14
530	503.5	26.5			1.07
36)A <u>1</u>					(9-0) <u>9</u>
14	7	7	0	0	1.60
73.8	70.1	3.7	0	0	1.07

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	2.7	0.3			1.14
1325	993.8	265	66.3	0	1.80
84	75.6	4.2	4.2	0	1.68
0.00					
20	12	6	2	0	2.15
1325	0	649.3	662.5	13.3	3.00
0	NaN	0	0	0	
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
78.57	74.7	3.9			1.07
0	NaN	0	0	0	
0.0	NaN	0	0	0	
28	28	0	0	0	1.00
78.57	77.8		0.8		1.17
0.00	0.00				
78.57	62.8	7.9	7.9		2.06
4	3.6	0.2	0.2	0	1.68
4	0	3	1		2.67
2	2	0	0	0	1.00
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
200.00	200.00				1.00
200.00	200.00				1.00
4	0	4	0	0	2.00
N61. Channel Summary					(9-0) <u>6</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	2	0	0	0	1.00
0.0	NaN	0	0	0	
General Appraisal					(9-0) <u>6</u>
N41. Operating Status					<u>A</u>

General Appraisal

N41. Operating Status

Inspector Name Persanyi, Andrea
Inspection Date/Type 05/19/2015 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 08/05/2015
PE Number 59487

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

Structure File Number: 4301714

Inventory Bridge Number: LAK 00002 16.560 R

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

Sufficiency Rating: 81.3

Date Built: 7/1/1964

District: 12 Place Code (FIPS): PAINESVILLE

SR2 over GRAND RIVER

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

INSPECTED AND DRY SUITED WITH MIKE GERSTENSLAGER IN 2015.
A FEW CRACKS. MINOR BREAK UP AT FORWARD EXJT IN LANE #1.

DECK

c7.1 Floor/Slab

TRANSVERSE CRACKS. APPROX 35 SF OF DELAMS & 15 SF OF SPALLS
(MOSTLY HAUNCH).

c8. Wearing Surface

TRANSVERSE & LONGITUDINAL CRACKS AS WIDE AS 1/8". <5%
DELAMINATED. SMALL ASPHALT PATCH IN LANE #2.

c11. Railing

VERTICAL CRACKS.

c12. Drainage

SPRAY FROM DOWNSPOUT ENDS WHICH ARE 3.5" BELOW BOTTOM
FLANGES IS BEING BLOWN ONTO LOWER FLANGES. RUSTING SECTION
LOSS & A FEW RUSTED THRU HOLES IN BOTTOMS OF DOWNSPOUTS.

c13. Expansion Joint

A FEW GOUGES. 2.5' OF REAR RISER BAR CUT OUT IN LANE #2.

SUPERSTRUCTURE

c14. Alignment

LOWER FLANGE OF RIGHT FASCIA BEAM IS SLIGHTLY WARPED IN SPAN 1
(COLLISION DAMAGE FROM DEBRIS DURING HIGH WATER).

c15.1 Beams/Girders

SOME AREAS OF RUSTING SECTION LOSS (HEAVY AT BEAM ENDS).
SCRAPES TO LOWER FLANGES OF BEAMS 4 & 5 IN SPAN 3. 2007 QAR
STICKER 12-0001.

c16. Diaphragm/Cross Frames

ENDFRAME RUSTING SECTION LOSS. BENT HORIZONTAL ANGLE IN BAY 1

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

Structure File Number: 4301714 Inventory Bridge Number: LAK 00002 16.560 R Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 81.3

Date Built: 7/1/1964

District: 12 Place Code (FIPS): PAINESVILLE

SR2 over GRAND RIVER

Type of Service on: HIGHWAY

NEAR FORWARD ABUTMENT.

c26. Bearing Devices

RUSTING, SOME HEAVY. PACK RUST.

c30. Protective Coating System

RUSTING THRU OUT, WORSE AT LOWER FLANGES. PCS FAILING AT BEAM ENDS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS. SOME RUST STAINS.

c37. Pier Caps

SPALL ON REAR SIDE OF P1.

c39. Backwalls

DELAMS. CRACKS & SPALLS, MOSTLY NEAR TOPS. SCALING AT FORWARD.

c40. Wingwalls

A FEW CRACKS & SPALLS. SCALING.

c42. Scour

P1: UP TO 2" OF FOOTING EXPOSURE ALONG ENTIRE EAST FACE. TOP OF FOOTER IS EXPOSED ON ALL SIDES. P2: 5" OF VERTICAL FACE EXPOSURE ALONG WEST SIDE, 18" OF VERTICAL FACE EXPOSURE AT UPSTREAM NOSE, 2" OF VERTICAL FACE EXPOSURE ALONG EAST SIDE AND 16" OF VERTICAL FACE EXPOSURE AT DOWNSTREAM NOSE. NO UNDERMINING. PIER FOOTINGS, 30" DEEP, ARE IN SHALE.

CHANNEL

c53. Hydraulic Opening

EVIDENCE OF FLOWING FULL. LARGE LOGS SNAGGED ON UPSTREAM NOSE OF P2.