

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 4301749

Inventory Bridge Number: LAK 00002 16.770

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

Sufficiency Rating: 64.9

Date Built: 7/1/1963

District: 12 Place Code (FIPS): PAINESVILLE TWP

MANTLE RD (CR313) over CR-313 (MANTLE RD)

Type of Service on: HIGHWAY

APPROACH ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c1. Approach Wearing Surface (EA)	2					2
c2. Approach Slabs (SF)	0					2
c3. Relief Joint (LF)						
c4. Embankment (EA) d	4					1
c5. Guardrail (EA)	4					2
N36. Safety Features: Tr, Gr, Tm						
c6. Approach Summary	36)B 0	36)C 1	36)D 1	(9-0)		5

DECK ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c7.1 Floor/Slab (SF)	8749.3					2
c7.2 Edge of Floor/Slab (LF)	474					1
c8. Wearing Surface (SF)	7110					2
c9. Curb/Sidewalk/Walkway (LF)	474.0					1
c10. Median (LF)						
c11. Railing (LF)	474					1
N36. Safety Features: Rail						
c12. Drainage (EA) d	0.0					2
c13. Expansion Joint (LF) d	0.0					2
N58. Deck Summary	36)A 1				(9-0)	5

SUPERSTRUCTURE ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c14. Alignment (EA) d	4					1
c15.1 Beams/Girders (LF)	0.0					3
c15.2 Slab (SF)						
c16. Diaphragm/X-Frames (EA)	0.0					3
c17. Stringers (LF)	0.0					
c18. Floorbeams (LF)	0.0					
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	0.0					2
c27. Arch (LF)						
c28. Arch Column/Hanger (EA)						
c29. Arch Spandrel Walls (LF)						
c30. Prot. Coating System (LF) d	0.0					2
c31. Pins/Hangers/Hinges (EA) d						
c32. Fatigue (LF) d	0.0					1
N59. Superstructure Summary					(9-0)	4

SUBSTRUCTURE ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c33. Abutment Walls (LF)	78.6					1
c34. Abutment Caps (LF)						
c35. Abut. Columns/Bents (EA)						
c36. Pier Walls (LF)						
c37. Pier Caps (LF)	117.9					1
c38. Pier Columns/Bents (EA)	0.0					1
c39. Backwalls (LF)	78.6					1
c40. Wingwalls (EA)	4					1
c42. Scour (EA) d						
c43. Slope Protection (EA) d	2					1
N60. Substructure Summary					(9-0)	7

CULVERT ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
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					(9-0)	N

CHANNEL ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c51. Alignment (LF) d						
c52. Protection (LF) d						
c53. Hydraulic Opening (EA) d						
c54. Navigation Lights (EA) d						
N61. Channel Summary					(9-0)	N

SIGN/UTILITY ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c55. Signs (EA) d	0.0					4
c56. Sign Supports (EA) d						
c57. Utilities (LF) d	0.0					2
General Appraisal					(9-0)	4
N41. Operating Status						A

Inspector Name Persanyi, Andrea
Inspection Date/Type 09/16/2019 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 11/01/2019
PE Number 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

MANY CRACKS. ASPHALT BREAK UP, HEAVIER AT REAR. ASPHALT PATCHES. SMALL POTHOLES IN FORWARD WS.

c2. Approach Slabs

WIDE CRACKS AT REAR. FULL WIDTH CRACK AT FORWARD. BOUNCE ONTO BRIDGE IN BOTH DIRECTIONS. ASPHALT PATCHES, CONCRETE BREAK UP & SOME SPALLS ALONG EXJT HEADERS.

c5. Guardrail

COLLISION DAMAGE AT REAR-RIGHT. POST ROT.

DECK

c7.1 Floor/Slab

TRANSVERSE LEACHING CRACKS. STALACTITES. MANY MOTTLED AREAS. APPROX 20 SF OF SPALLS. SOME DELAMS. SPALL FORMING OVER WB #1 LANE IN BAY 2. A FEW FILLED CORE HOLES. FLOOR IS 10-15% DETERIORATED.

c7.2 Edge of Floor/Slab

A FEW LEACHING CRACKS & STALACTITES.

c8. Wearing Surface

CRACKS, SOME AS WIDE AS 1/8". MANY ASPHALT PATCHES, DELAMS & SHALLOW SPALLS THROUGHOUT SB LANE. OTHER DELAMS. WS IS 10-15% DETERIORATED.

c9. Curb/Sidewalk/Walkway

A FEW DELAMS & SPALLS. RUST STAINS.

c11. Railing

CRACKS. A FEW DELAMS & SPALLS. RUSTING SECTION LOSS TO FENCE HARDWARE (SOME RUST SEVERED).

c12. Drainage

RUSTING SECTION LOSS WITH THRU HOLES TO DOWNSPOUTS. DOWNSPOUT SUPPORTS SEVERED IN BAY 4 SPAN 4.

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c13. Expansion Joint

GOUGES IN REAR DECK ARMOR WITH TWO THRU HOLES & 24" CRACK. FIVE SMALL THRU HOLES & TWO BOLTS MISSING IN FORWARD ARMOR. FORWARD ARMOR SLIGHTLY LOOSE.

SUPERSTRUCTURE

c15.1 Beams/Girders

HEAVY RUSTING SECTION LOSS TO BEAM ENDS. CORROSION HOLES TO REAR LEFT FASCIA WEB AT BOTTOM (19.5") AND TOP (4"); TO REAR RIGHT FASCIA WEB ALONG BOTTOM (TOTALING 18") WHICH EXTENDS 9" NORTH OF BEARING; AND TO BEAM 4 WEB AT REAR, 1"X1" APPROX 17" FROM BOTTOM FLANGE. NOTE: TEMPORARY BOLTED REPAIR PLATES INSTALLED TO BOTH FASCIAS AT REAR ABUTMENT. RUSTING THRU HOLES AS LONG AS 7" TO TOP & BOTTOM OF LEFT FASCIA AT FORWARD ABUTMENT. 50% SECTION LOSS TO BOTTOM FLANGE OF LEFT FASCIA AT REAR BEARING.

c16. Diaphragm/Cross Frames

HEAVY ENDFRAME RUSTING SECTION LOSS. HORIZONTAL ANGLE OF REAR ENDFRAME #4 IS RUST SEVERED. NOTE: TEMPORARY BOLTED REPAIRS TO REAR ENDFRAMES #1 & #4. RUSTING THRU HOLES TO OTHER ENDFRAMES.

c26. Bearing Devices

HEAVY RUSTING. WORN SLIDING (BRONZE) PLATES.

c30. Protective Coating System

5-10% RUST. PAINT FAILURE AT BEAM ENDS. PCS IS 10-15% DETERIORATED.

c32. Fatigue

WELDED MOMENT PLATES AT PIERS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS. MINOR DELAMS. RUST STAINS.

c38. Pier Columns/Bents

2 SF SPALL TO P3C3.

c39. Backwalls

CRACKS.