

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 2800152

Inventory Bridge Number: GEA 00044 01.350 N

Bridge Type: 1 - CONCRETE/1 - SLAB/2 - CONTINUOUS

Sufficiency Rating: 64.9

Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP

SR44 over LA DUE RES. 1.23 MIS 422

Type of Service on: HIGHWAY-PEDESTRIAN

APPROACH ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c1. Approach Wearing Surface (EA)	2					2
c2. Approach Slabs (SF)	0					1
c3. Relief Joint (LF)						
c4. Embankment (EA) d	4					3
c5. Guardrail (EA)	0.0					2
N36. Safety Features: Tr, Gr, Tm						
c6. Approach Summary		36)B 1	36)C 1	36)D 1	(9-0)	4

DECK ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c7.1 Floor/Slab (SF)	4646.3					3
c7.2 Edge of Floor/Slab (LF)	212					4
c8. Wearing Surface (SF)	4646.3					4
c9. Curb/Sidewalk/Walkway (LF)						
c10. Median (LF)						
c11. Railing (LF)	212					1
N36. Safety Features: Rail						
c12. Drainage (EA) d	0.0					1
c13. Expansion Joint (LF) d	0.0					
N58. Deck Summary		36)A 1			(9-0)	4

SUPERSTRUCTURE ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c14. Alignment (EA) d	3					1
c15.1 Beams/Girders (LF)	0.0					
c15.2 Slab (SF)	4650					3
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	0.0					
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						
N59. Superstructure Summary					(9-0)	4

SUBSTRUCTURE ITEMS

	QTY.	condition state				cr
		1	2	3	4	TR
c33. Abutment Walls (LF)	87.7					2
c34. Abutment Caps (LF)	0.0					
c35. Abut. Columns/Bents (EA)	0.0					
c36. Pier Walls (LF)	0.0					
c37. Pier Caps (LF)	87.7					1
c38. Pier Columns/Bents (EA)	0.0					2
c39. Backwalls (LF)						2
c40. Wingwalls (EA)	0.0					2
c42. Scour (EA) d	4					3
c43. Slope Protection (EA) d	0.0					4
N60. Substructure Summary					(9-0)	4

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	200.0					1
c52. Protection (LF) d	200.0					3
c53. Hydraulic Opening (EA) d	1					1
c54. Navigation Lights (EA) d						
N61. Channel Summary					(9-0)	4

SIGN/UTILITY ITEMS

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

Inspector Name Sutak, Mike
Inspection Date/Type 10/20/2014 Routine and Underwater
PE Number
Reviewer Name Seif, Youssef
Review Date 12/29/2014
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

INSPECTED WITH DB IN 2014.
CRACKS. ASPHALT PATCHES ALONG TOPS OF BOTH BACKWALLS WITH
SOME BREAKING UP AREAS.

c4. Embankment

EROSION @ ALL FOUR CORNERS WHICH EXTENDS AS MUCH AS 20" INTO
THE BERM & PARTIALLY EXPOSES SOME GUARDRAIL POSTS @ THE
REAR-LEFT (SW). EROSION ALONG NORTHWEST CAUSEWAY EMBANKMENT
WITH SEVERAL WASHOUTS THAT EXTEND TO GUARDRAIL POSTS.

c5. Guardrail

SEE EMBANKMENT COMMENTS (POST EXPOSURE).

DECK

c7.1 Floor/Slab

SEE SLAB. FLOOR IS 25-30% DETERIORATED.

c7.2 Edge of Floor/Slab

BOTH DECK EDGES ARE COMPLETELY SPALLED WITH 360 DEGREE REBAR
EXPOSURE, SOME HANGING.

c8. Wearing Surface

CRACKS, SOME AS WIDE AS 1/4". APPROXIMATELY 450+ SF OF ASPHALT
PATCHES (PATCHES ARE DETERIORATED & BREAKING UP) AND 20 SF OF
BREAKING UP CONCRETE. 15% DELAMINATED. WS IS 25-30%
DETERIORATED.

c11. Railing

VERTICAL CRACKS, SOME LEACHING.

SUPERSTRUCTURE

c15.2 Slab

APPROXIMATE SPALLED AREAS UNDER TRAFFIC ARE AS FOLLOWS: SPAN
#1=200 SF, SPAN #2=225 SF, SPAN #3=185 SF. ALL THREE SPANS HAVE LONG
LENGTHS OF 360 DEGREE REBAR EXPOSED UNDER TRAFFIC.

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c30. Protective Coating System

AREAS OF PEELING. PCS IS 5-10% DETERIORATED.

SUBSTRUCTURE

c33. Abutment Walls

SPALLS. CRACKS. AREAS OF HEAVY EFFLORESCENCE. CONCRETE
DETERIORATION @ CORNERS WITH 360 DEGREE REBAR EXPOSURE.

c38. Pier Columns/Bents

RUSTING SECTION LOSS OF STEEL PIER COLUMNS NEAR WATERLINE.

c37. Pier Caps

MINOR DELAMS & SPALLS.

c40. Wingwalls

CRACKS. SPALLS. DETERIORATING CONCRETE.

c42. Scour

BOTTOM OF ENTIRE REAR ABUTMENT FOOTING IS EXPOSED WITH 1' OF
PILES EXPOSED. SCOUR HAS PUNCHED THRU UNDER REAR ABUTMENT TO
APPROACH FILL.

c43. Slope Protection

UNDERMINING OF BOTH ABUTMENTS (38' OF FORWARD & ENTIRE WIDTH OF
REAR) EXPOSES SOME PILES @ FORWARD & ALL PILES @ REAR TO AIR &
WATER WHEN LAKE IS HIGH. NOTE: UNDERMINING IS AS DEEP AS 36" @
FORWARD & 44" @ REAR.

CHANNEL

c52. Protection

ALMOST ALL OF THE STONE HAS WASHED AWAY FROM BOTH ABUTMENTS.

c53. Hydraulic Opening

NOTE: MAX WATER DEPTH @ THE CENTER LINE OF THE BRIDGE BETWEEN
P1 & P2 IS 12.4'. REFERENCE POINT IS BOTTOM OF THE CAP @ WEST END
OF P2 TO WATER IS 6.8'.