

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1808745

Inventory Bridge Number: CUY 00090 20.430 R

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

Sufficiency Rating: 89.3

Date Built: 7/1/1938

District: 12 Place Code (FIPS): CLEVELAND

IR90-EB over CEI OUTLET CHANNEL

Type of Service on: HIGHWAY

APPROACH ITEMS

	condition state					cr
	QTY.	1	2	3	4	
c1. Approach Wearing Surface (EA)	2					2
c2. Approach Slabs (SF)	0					1
c3. Relief Joint (LF)						
c4. Embankment (EA) d	4					1
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)	6

DECK ITEMS

	condition state					cr
	QTY.	1	2	3	4	
c7.1 Floor/Slab (SF)	14244.7					1
c7.2 Edge of Floor/Slab (LF)	368					1
c8. Wearing Surface (SF)	13922.7					1
c9. Curb/Sidewalk/Walkway (LF)						
c10. Median (LF)						
c11. Railing (LF)	368					1
N36. Safety Features: Rail						
c12. Drainage (EA) d	0.0					2
c13. Expansion Joint (LF) d	0.0					
N58. Deck Summary		36)A 1			(9-0)	8

SUPERSTRUCTURE ITEMS

	condition state					cr
	QTY.	1	2	3	4	
c14. Alignment (EA) d	3					1
c15.1 Beams/Girders (LF)	0.0					2
c15.2 Slab (SF)						
c16. Diaphragm/X-Frames (EA)	0.0					2
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					1
c27. Arch (LF)						
c28. Arch Column/Hanger (EA)						
c29. Arch Spandrel Walls (LF)						
c30. Prot. Coating System (LF) d	0.0					1
c31. Pins/Hangers/Hinges (EA) d						
c32. Fatigue (LF) d	0.0					1
N59. Superstructure Summary					(9-0)	6

SUBSTRUCTURE ITEMS

	condition state					cr
	QTY.	1	2	3	4	
c33. Abutment Walls (LF)	154.8					2
c34. Abutment Caps (LF)	0.0					
c35. Abut. Columns/Bents (EA)	0.0					
c36. Pier Walls (LF)	0.0					
c37. Pier Caps (LF)	154.8					1
c38. Pier Columns/Bents (EA)	0.0					2
c39. Backwalls (LF)	154.8					1
c40. Wingwalls (EA)	0.0					1
c42. Scour (EA) d	4					1
c43. Slope Protection (EA) d						
N60. Substructure Summary					(9-0)	6

CULVERT ITEMS

	condition state					cr
	QTY.	1	2	3	4	
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

	condition state					cr
	QTY.	1	2	3	4	
c51. Alignment (LF) d	200.0					1
c52. Protection (LF) d	200.0					1
c53. Hydraulic Opening (EA) d	1					1
c54. Navigation Lights (EA) d						
N61. Channel Summary					(9-0)	7

SIGN/UTILITY ITEMS

	condition state					cr
	QTY.	1	2	3	4	
c55. Signs (EA) d	0.0					1
c56. Sign Supports (EA) d	0.0					
c57. Utilities (LF) d						

General Appraisal

N41. Operating Status

Inspector Name	Persanyi, Andrea				
Inspection Date/Type	11/06/2014	Routine and Underwater			
PE Number					
Reviewer Name	Seif, Youssef				
Review Date	01/07/2015				
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

A FEW ASPHALT CRACKS AND SHALLOW POTHOLES ALONG APPROACH SLAB JOINTS.

c5. Guardrail

MINOR COLLISION DAMAGE AT REAR RIGHT.

DECK

c7.1 Floor/Slab

A FEW CRACKS, SOME LEACHED. FLOOR IS <1% DETERIORATED

c8. Wearing Surface

A FEW CRACKS. WS IS <1% DETERIORATED.

c11. Railing

MINOR CRACKS.

c12. Drainage

PONDING TO SOUTH BERM. 2" THICK DIRT AND DEBRIS IN SOUTH BERM.

SUPERSTRUCTURE

c15.1 Beams/Girders

AREAS OF RUST SECTION LOSS. NO SPLICE PLATES ON THE BOTTOMS OF THE LOWER FLANGES AT THE FIELD SPLICES IN SPAN 2, SPLICES ARE AT MIDSPAN.

c16. Diaphragm/Cross Frames

RUSTED THROUGH HOLES IN A FEW CROSSFRAMES. (1ST XFRAME WEST OF PIER 1 IN BAY 5R.) BENT CHANNEL OF FIRST XFRAME EAST OF PIER 2 IN BAY 3. RIVET HEAD SHEARED OFF AT BEAM 5 NEAR REAR ABUTMENT.

c30. Protective Coating System

1-5% RUST, 1-5% DETERIORATED.

c32. Fatigue

THERE ARE AREAS WHERE PLATES ARE WELDED TO THE LOWER FLANGES,

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AREAS WHERE I-BEAMS OR OLD BRACKETS WELDED TO THE WEBS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, A FEW DELAMS, DEEP SPALL UNDER BEAM 8 AT REAR. CRACKS AND DELAMS TO AREAS OF EXPOSED FOOTING.

c38. Pier Columns/Bents

P2C4 SPALL AT A COLD JOINT, STARTING 4' ABOVE THE CHANNEL BOTTOM. THE SPALL IS 3' H X FULL CIRCUMFERENCE X 3" D, WITH STEEL EXPOSED. P2C11 AREA OF DETERIORATED CONCRETE WITH RANDOM SPALLS AND EFFLORESCENCE. THIS CONDITION START 6' BELOW THE TOP OF THE CONCRETE CASEMENT AND EXTEND DOWN TO THE CHANNEL BOTTOM. THE FOLLOWING COLUMNS HAVE HOLLOW SOUNDING SOFT CONCRETE ENCASUREMENTS IN THE SPLASH ZONE: P1C11, P1C12, P1C13, P1C14, P2C4, P2C7, P2C8, P2C9, P2C10, P2C11, P2C12, P2C13, P2C14 AND P2C15.

c42. Scour

WATER DEPTH VARIES FROM 4' TO 8'.

CHANNEL

c52. Protection

28" OF REAR ABUTMENT FOOTING AND 7" OF FORWARD ABUTMENT FOOTING EXPOSED.

c53. Hydraulic Opening

LAST DIVE INSPECTION 12/11/12.
BOATING INSPECTION WITH DAN BREDA 11/5/14.