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

c40. Wingwalls (EA)

c43. Slope Protection (EA) d

N60. Substructure Summary

**CULVERT ITEMS** 

c44. General (LF)

c42. Scour (EA) d

Structure File Number: 1808745 Inventory Bridge Number: CUY 00090 20.430 R Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

IR90-EB over CEI OUTLET CHANNEL Type of Service on: HIGHWAY

#### Sufficiency Rating: 89.3 Date Built: 7/1/1938 District: 12 Place Code (FIPS): CLEVELAND condition state **APPROACH ITEMS** QTY 3 4 TR 2 c1. Approach Wearing Surface (EA) 2 2 2.00 2370 c2. Approach Slabs (SF) 2370 0 0 1.00 c3. Relief Joint (LF) 4 4 1.00 c4. Embankment (EA) d c5. Guardrail (EA) 4 3 1.33 1 0 N36. Safety Features: Tr, Gr, Tm 36)B 1 36)C 1 36)D 6 c6. Approach Summary condition state cr **DECK ITEMS** QTY. 1 2 3 4 TR c7.1 Floor/Slab (SF) 14244.73 1353 712.2 1.07 2.5 368 c7.2 Edge of Floor/Slab (LF) 368 1.00 c8. Wearing Surface (SF) 13922.73 1322 696.1 1.07 66 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 **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)

c24. Lateral Bracing (EA)

c25. Sway Bracing (EA)

c27. Arch (LF)

c32. Fatigue (LF) d

c26. Bearing Devices (EA) d

c28. Arch Column/Hanger (EA) c29. Arch Spandrel Walls (LF) c30. Prot. Coating System (LF) d c31. Pins/Hangers/Hinges (EA) d

N59. Superstructure Summary

c23. Truss Gusset Plate (EA) d

							c45. Alignment (LF) d	
	368	368				1.00	. ,	
	36)A 1						c46. Shape (LF) d	
	2	2		0	0	1.00	c47. Seams (LF) d	
	0.00						c48. Headwall/Endwall (	LF)
					(9-0)	8	c49. Scour (LF) d	
					` ′		c50. Abutments (LF)	
<u> </u>	QTY.	1	ondition 2	n star	4	cr TR	N62. Culvert Summary	
	3	3		3	4	1.00	CHANNEL ITEMS	
	2745	2470.	274.5	0	0	1.14	CHANNEL ITEMS	
	2140	5	274.0			1.14	c51. Alignment (LF) d	
	050	000.0	40.0	0.5		1.23	c52. Protection (LF) d	
	252	236.9	12.6	2.5	0	1.23	c53. Hydraulic Opening	(EA) d
							c54. Navigation Lights (E	ΞΑ) d
							N61. Channel Summary	
							SIGN/UTILITY ITE	<u>vis</u>
							c55. Signs (EA) d	
							c56. Sign Supports (EA)	d
							c57. Utilities (LF) d	
							General Appraisal	
							N41. Operating Status	
	60.0	60		0	0	1.00	, ,	0
							Inspector Name	Sutak
							Inspection Date/Type	10/27
							PE Number	
	2745	1647	549	549	0	2.44	Reviewer Name	Seif, \
							Review Date	11/25
	0.00	0.00					PE Number	59487
					(9-0)	6		
							I	

SUBSTRUCTURE ITEMS		U	oriultic	JII Stat	C	UI
30B31K0C10KE11EM3	QTY.	1	2	3	4	TR
c33. Abutment Walls (LF)	154.83	145.7	7.7	1.5		1.23
c34. Abutment Caps (LF)	154.83					
c35. Abut. Columns/Bents (EA)	0.00					
c36. Pier Walls (LF)	154.83					
c37. Pier Caps (LF)	154.83	154. 83				1.00
c38. Pier Columns/Bents (EA)	30.0	15	12	3	0	2.20
c39. Backwalls (LF)	154.83	154.				1.00

2

4

2

4

	С	cr			
QTY.	1	2	3	4	TR
				(9-0)	N

condition state

0

0

(9-0)

1.00

1.00

6

	C	cr			
QTY.	1	2	3	4	TR
200.00	200.				1.00
200.00	00 200. 00				1.00
1	1				1.00
				(9-0)	7

	С	cr			
QTY.	1	2	3	4	TR
2	2	0	0	0	1.00
0.00					
				(9-0)	6
					Α

Inspector Name	Sutak, Mike	
Inspection Date/Type	10/27/2015	Routine
PE Number		
Reviewer Name	Seif, Youssef	
Review Date	11/25/2015	
PE Number	59487	

Inspection Date: 10/27/2015 Reviewed Date: 11/25/2015 Page

# 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

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

BOATING INSPECTION ON 9/16/2015 WITH MG AND JS.

#### Comments

**APPROACH** 

c1. Approach Wearing Surface

INSPECTED WITH MG. A FEW ASPHALT CRACKS AND SHALLOW POTHOLES ALONG APPROACH SLAB JOINTS. ASPHALT PATCHES.

c5. Guardrail

MINOR COLLISION DAMAGE AT REAR RIGHT.

**DECK** 

c7.1 Floor/Slab

A FEW CRACKS, SOME LEACHED.

c8. Wearing Surface

A FEW CRACKS. AREAS OF MAP CRACKING.

c11. Railing

MINOR CRACKS.

c12. Drainage

1" 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 MID-SPAN. THERE ARE AREAS WHERE PLATES ARE WELDED TO THE LOWER FLANGES AND AREAS WHERE I-BEAMS OR OLD BRACKETS ARE WELDED TO THE WEBS.

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

AREAS OF RUST AND TOP COAT PEELING.

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**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 ENCASEMENTS IN THE SPLASH ZONE: P1C11, P1C12, P1C13, P1C14, P2C4, P2C7, P2C8, P2C9, P2C10, P2C11, P2C12, P2C13, P2C14 AND P2C15.

c40. Wingwalls

A FEW CRACKS.

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 MG AND JS 9/16/2015.

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