

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1805436

Inventory Bridge Number: CUY 00176 13.340 N

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

Sufficiency Rating: 90.5

Date Built: 7/1/1968

District: 12 Place Code (FIPS): CLEVELAND

I-71 over IR-71NB (CUY-71-1791R)

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
3	0	3		0	2.00
2259	2259				1.00
100	100				
6	6	0	0	0	1.00
6	5	0	1	0	2.29
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>6</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
67032	6358	3352	100		1.10
7673	0	384	15	0	1.11
68951	3374	3500	200	10	1.64
3838	3454	192	192	0	1.68
3838	3438	190	200	10	1.78
36)A <u>1</u>					(9-0) <u>6</u>
18	5	6	5	2	3.00
267	87	100	60	20	3.03

### 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
25	25	0	0	0	1.00
11371	6271	5000	75	25	1.68
699	599	70	20	10	1.94
0.00					
160	142	16	2	0	1.33
11371	6271	4000	1000	100	2.27
21	13	4	4	0	2.42
11371	6371	5000			1.54
					(9-0) <u>6</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
126	81	30	15		2.21
0	0	0	0	0	
0.0	0	0	0	0	
157	112	30	15		2.08
771	456	275	40	0	1.92
47	40	6	1	0	1.47
126	63	63	0	0	1.60
6	6	0	0	0	1.00
3	2	0	1	0	3.00
					(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
					(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
					(9-0) <u>N</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
4	2	0	0	2	3.00
1	1	0	0	0	1.00
1673	1673	0	0	0	1.00
					(9-0) <u>6</u>
					<u>A</u>

### General Appraisal

N41. Operating Status

**Inspector Name** Banaszak, Ken  
**Inspection Date/Type** 12/10/2015 Routine  
**PE Number**  
**Reviewer Name** Seif, Youssef  
**Review Date** 01/28/2016  
**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**

REAR HAS CRACKS AND ASPHALT PATCHES. FORWARD MAINLINE AND RAMP HAVE CRACKS.

**c2. Approach Slabs**

ALL SLABS ARE ASPHALT COVERED.

**c5. Guardrail**

REAR-RIGHT COLLISION DAMAGE.

**DECK**

**c7.1 Floor/Slab**

TRANSVERSE LEACHING CRACKS. MOTTLED AND WET AREAS. SOME DELAMS. SPALLS, SOME WITH REBAR EXPOSED. EPOXY INJECTED AREAS. A FEW HONEYCOMBED AREAS. SOME FULL DEPTH REPAIRS.

**c7.2 Edge of Floor/Slab**

CRACKS. SOME SPALLS. SOME DELAMS.

**c8. Wearing Surface**

MANY CRACKS. AREAS OF MAP CRACKING, SPALLING & BROKEN UP AREAS. DETERIORATED PATCHES. 2% DELAMINATED OVERALL. SOME CONCRETE PATCHES. SOME ASPHALT PATCHES. SOME BREAKING UP AREAS.

**c11. Railing**

VERTICAL & HORIZONTAL CRACKS, SOME ARE LEACHING. MANY SPALLS THRU OUT. SOME DELAMS. SOME COLLISION SCRAPES.

**c12. Drainage**

2 PLUGGED AND 3 PARTIALLY PLUGGED SCUPPERS. RUSTING SECTION LOSS & THRU HOLES TO SOME DOWNSPOUTS.

**c13. Expansion Joint**

TORN SEALS, WITH MINOR LEAKAGE, IN MANY LOCATIONS. SOME GOUGES THRU OUT. REAR APPROACH HAS 2' OF APPROACH ARMOR MISSING.

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**SUPERSTRUCTURE**

c15.1 Beams/Girders

RUSTING SECTION LOSS AT VARIOUS LOCATIONS ESPECIALLY ON BOTTOM FLANGES & NEAR THE SEATED HINGES. PACK RUST @ A FEW LOWER FLANGE SPLICE PLATES.

c16. Diaphragm/Cross Frames

AREAS OF RUSTING SECTION LOSS. RUSTED THRU HOLES UNDER INTERMEDIATE EXJTS & IN BAY #1 @ THE FORWARD MAINLINE ABUTMENT.

c26. Bearing Devices

MOST BEARINGS ARE IN GOOD CONDITION. REAR BEARING #7 IS TIPPED IN. AND FORWARD RAMP #1 TIPPED IN.

c30. Protective Coating System

ACTIVE CORROSION UNDER JOINTS. AREAS OF PEELING. RUST AREAS THRU OUT. SOME AREAS OF FADING PAINT.

c31. Pins/Hangers/Hinges

RUSTING SECTION LOSS TO SOME AREAS (MOSTLY TO FASCIS AREAS.. SURFACE RUST TO OTHER AREAS.

c32. Fatigue

SURFACE RUST. WELDED MOMENT PLATES AT PIERS.

**SUBSTRUCTURE**

c33. Abutment Walls

DELAMS SOME LARGE. CRACKS, SOME AS WIDE AS 1/8". OTHER CRACKS. SPALLS @ FORWARD.

c38. Pier Columns/Bents

CRACKS, DELAMINATIONS & SPALLS,

c36. Pier Walls

CRACKS, DELAMINATIONS. SPALLS, SOME WITH REBAR EXPOSED. EPOXY INJECTED CRACKS.

c37. Pier Caps

CRACKS, DELAMINATIONS. SPALLS, SOME WITH REBAR EXPOSED.

c39. Backwalls

CRACKS

c43. Slope Protection

EROSION RUT TO THE REAR-RIGHT SLOPE. RUT IS AS DEEP AS 4' IS SPOTS.

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