

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## BRIDGE INSPECTION FIELD REPORT

**DRAFT**

Structure File Number: 1805371

Inventory Bridge Number: CUY 00071 17.910 R

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

Sufficiency Rating: 79.1

Date Built: 7/1/1969

District: 12 Place Code (FIPS): CLEVELAND

I-71 N.B. over SR 176(1328)JENNINGS FWY

Type of Service on: OVERPASS STRUCTURE AT AN INTERCHANGE OP

### 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				TR
	1	2	3	4	
3	3	0	0	0	1.00
3181	3181	0	0	0	1.00
124	124				
6	6				1.00
6	4	2	0	0	1.43
36)B <u>1</u> 36)C <u>1</u> 36)D <u>1</u>					(9-0) <u>7</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				TR
	1	2	3	4	
116611	1107	5831	0	0	1.07
9209	<del>80</del> 8749	460	0	0	1.07
118915	9513	1783	5946	0	1.76
4606	<del>2</del> 2303	<del>7</del> 2303	0	0	1.60
4606	2303	2303	0	0	1.60
36)A <u>1</u>					(9-0) <u>6</u>
39	14	5	20	0	3.00
374	0	0.00	374	0	3.00

### 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

QTY.	condition state				TR
	1	2	3	4	
28	28	0	0	0	1.00
18835	1883	0	0	0	1.00
	<u>5</u>				
1256	1130	126	0	0	1.14
0.00					
54	49	5	0	0	1.13
207	186	21	0	0	1.14
19146	1723	1915	0	0	1.14
30	<u>1</u> 22	8	0	0	1.35
19146	1914	0	0	0	1.00
	<u>6</u>				
N59. Superstructure Summary					(9-0) <u>7</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				TR
	1	2	3	4	
171	121	50	0	0	1.38
0	0	0	0	0	
0.0	0	0	0	0	
0	0	0	0	0	
1467	733	734	0	0	1.60
59	44	15	0	0	1.34
171	85	86	0	0	1.60
6	5	1	0	0	1.23
3	3	0	0	0	1.00
N60. Substructure Summary					(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				TR
	1	2	3	4	
N62. Culvert Summary					(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				TR
	1	2	3	4	
N61. Channel Summary					(9-0) <u>N</u>

### SIGN/UTILITY ITEMS

- c55. Signs (EA) d
- c56. Sign Supports (EA) d
- c57. Utilities (LF) d

QTY.	condition state				TR
	1	2	3	4	
6	6	0	0	0	1.00
18	18	0.00	0	0	1.00
2945	2945	0	0	0	1.00
General Appraisal					(9-0) <u>6</u>
N41. Operating Status					<u>A</u>

### General Appraisal

N41. Operating Status

Inspector Name: Jurcak, Michael

Inspection Date/Type: 05/21/2014

PE Number: 79745

Reviewer Name:

Review Date: 07/09/2009

PE Number: 55992

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AN INTERCHANGE ON  
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

Next Insp Cycle is in 2015 and Est. Hours is and TTC is MT-95.30 and other TT notes include. . . VERIFY\_PLC . . . with 2014 lead insp. DT and truck req'd . . . 62

### Comments

#### APPROACH

##### c1. Approach Wearing Surface

PAVEMENT: REAR & FORWARD MAINLINE ARE NEW IN 2013.

##### c2. Approach Slabs

APPROACH SLABS: SMALL THRU HOLE IN FORWARD-LEFT CORNER OF MAINLINE SLAB.

##### c5. Guardrail

GUARDRAIL: COLLISION DAMAGE TO BOTH REAR GUARDRAIL.

#### DECK

##### c7.1 Floor/Slab

FLOOR: TRANSVERSE LEACHING CRACKS. MOTTLED/WET AREAS. STALACTITES. EPOXY INJECTED AREAS. TWO FULL DEPTH REPAIRS (ONE WITH FORMWORK LEFT IN). A FEW AREAS SHOW HONEYCOMBING & SPALLING WITH EXPOSED REBAR. HAUNCH SPALLS OVER PIER 6 WITH AREAS OF CORROSION ON TOP FLANGES. OTHER SPALLS & DELAMS. FLOOR IS 5-10% DETERIORATED.

##### c8. Wearing Surface

WEARING SURFACE: TRANSVERSE CRACKS. AREAS OF MAP CRACKING & SPALLING. AREAS OF BREAK UP. ASPHALT & CONCRETE PATCHES. WS IS 5-10% DETERIORATED.

##### c11. Railing

RAILING: VERTICAL & HORIZONTAL CRACKS, SOME LEACHING. SEVERAL SPALLS TO INSIDE TOE. MULTIPLE SPALLS WITH EXPOSED REBAR TO OUTSIDE.

##### c12. Drainage

FLOOR: TRANSVERSE LEACHING CRACKS. MOTTLED/WET AREAS. STALACTITES. EPOXY INJECTED AREAS. TWO FULL DEPTH REPAIRS (ONE WITH FORMWORK LEFT IN). A FEW AREAS SHOW HONEYCOMBING & SPALLING WITH EXPOSED REBAR. HAUNCH SPALLS OVER P6 WITH AREAS OF RUSTING TO TOP FLANGES. OTHER SPALLS. DELAMS. FLOOR IS 5-10% DETERIORATED.  
WEARING SURFACE: TRANSVERSE CRACKS. AREAS OF MAP CRACKING & SPALLING. AREAS OF BREAK UP. ASPHALT & CONCRETE PATCHES.

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AN INTERCHANGE OR

WS IS 5-10% DETERIORATED.

RAILING: VERTICAL & HORIZONTAL CRACKS, SOME LEACHING.

SEVERAL SPALLS TO INSIDE TOE. MULTIPLE SPALLS WITH EXPOSED  
REBAR TO OUTSIDE.

DRAINAGE: PARTIALLY PLUGGED SCUPPERS. DEBRIS IN RIGHT BERM.

RUSTING SECTION LOSS & THRU HOLES TO SOME DOWNSPOUTS.

PORTIONS OF DRAIN HAVE BROKEN OFF IN SPANS 12, 18AE & 18AW.

EXJTS: SEALS SHOW SIGNS OF MINOR LEAKAGE. DEBRIS IN MOST  
JOINTS.

c13. Expansion Joint

EXP JTS: SEALS SHOW SIGNS OF MINOR LEAKAGE. DEBRIS IN MOST  
JOINTS.

### SUPERSTRUCTURE

c15.1 Beams/Girders

BEAMS/GIRDERS: RUSTING SECTION LOSS @ VARIOUS LOCATIONS  
ESPECIALLY ON BOTTOM FLANGES, @ SPLICE BOLTS, NEAR THE  
SEATED HINGES & AT THE BEAM ENDS. LIGHT GRIND MARKS NEAR  
FACTORY SPLICE WELDS. GOUGE MARKS ON BEAM 5 IN SPAN 14.

c26. Bearing Devices

Several bearings out of alignment due to sliding bearing plates.