

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1812114

Inventory Bridge Number: CUY 00077 14.370 NE

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

Sufficiency Rating: 90.0

Date Built: 7/1/1964

District: 12 Place Code (FIPS): CLEVELAND

RAMP NE TO I-290 over UP IR 77 DN IR-490-WN&ES

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				cr
	1	2	3	4	TR
2		2			2.00
1400	1400		0	0	1.00
32	0	32			2.00
4	4	0	0	0	1.00
4.0	3	1	0	0	1.33
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
14968.24	1088	3742.	350		1.60
1066	1088	53	0	0	1.07
12792	8954.	3198	639.6		1.84
	4				
		0	0	0	
1066	788.8	266.5	10.7		1.46
36)A <u>1</u>					(9-0) <u>6</u>
2	1	0	0	1	3.00
56.0	26	10	20	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
- N59. Superstructure Summary

QTY.	condition state				cr
	1	2	3	4	TR
6	6				1.00
2132	2025.	106.6	0	0	1.07
	4				
117	117		0	0	1.00
2132	2004.	106	21.3	0	1.23
	1				
2132	2132	0	0	0	1.00
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				cr
	1	2	3	4	TR
56.24	42.2	8.4	5.6		2.08
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
150	114	30	6	0	1.72
7.0	7	0	0	0	1.00
56.24	42.2	2.8	11.2		2.40
4.0	4	0	0	0	1.00
2.0	0	2	0	0	2.00
N60. Substructure Summary					(9-0) <u>7</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
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				cr
	1	2	3	4	TR
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				cr
	1	2	3	4	TR
9	8	0	0	1	3.08
7	7	0	0	0	1.00
					(9-0) <u>7</u>
N41. Operating Status					<u>A</u>

General Appraisal

N41. Operating Status

Inspector Name	Persanyi, Andrea
Inspection Date/Type	10/26/2019 Routine
PE Number	
Reviewer Name	Seif, Youssef
Review Date	12/27/2019
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

FRACTURE CRITICAL INSPECTION / STEEL PIER CAPS ENTERED ON 10/26/2019. PIER CAP 1 (NW) ENTERED BY AP, BOLTS ARE 15/16", PIER CAP 2 (SE) ENTERED BY MS, BOLTS ARE 1 1/16".

Comments

APPROACH

c1. Approach Wearing Surface

NOTE: SOUTHEAST ABUTMENT IS REAR.
CRACKS, SOME WIDE, SOME SEALED. ASPHALT PATCHES. BREAKING UP ASPHALT ALONG BOTH EXJTS. POTHOLES IN BERMS AT BOTH ENDS.

c2. Approach Slabs

PAVED OVER WITH ASPHALT.

c3. Relief Joint

CRACKS, ASPHALT BREAK UP & HEAVED AREAS THROUGHOUT (FORWARD JOINT ONLY).

c5. Guardrail

MINOR COLLISION DAMAGE AT REAR-RIGHT.

DECK

c7.1 Floor/Slab

TRANSVERSE CRACKS. EPOXY INJECTED AREAS. LARGE MOTTLED AREAS. A FEW HAUNCH SPALLS.

c7.2 Edge of Floor/Slab

CRACKS.

c8. Wearing Surface

CRACKS. MANY SHALLOW SPALLS / POP-OUTS SCATTERED THROUGHOUT. MAP CRACKING.

c11. Railing

CRACKS. MINOR DELAMS. A FEW SPALLS TO OUTSIDE RIGHT RAIL. COLLISION SCRAPES. PEELING SEALER.

c12. Drainage

SCUPPER & DOWNSPOUT ON P2 IS COMPLETELY PLUGGED & HAS CRACKED (WATER HAS RUN OUT OF HOPPER ONTO PIER CAP).

c13. Expansion Joint

GOUGES IN FORWARD ARMOR. RIGHT SIDE OF FORWARD RISER BAR IS

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LOOSE. 4' OF FORWARD RISER BAR REMOVED ON RIGHT SIDE. APPROX 14' OF REAR RISER BAR MISSING. CRACKED WELD IN FORWARD ARMOR (NO MOVEMENT DETECTED).

SUPERSTRUCTURE

c15.1 Beams/Girders

AREAS OF MINOR SURFACE RUST. SCRAPES TO LOWER FLANGE OF RIGHT FASCIA OVER BRIDGE TO 77 N & TO COVER PLATE AT P5.

c26. Bearing Devices

RUSTING TO ABUTMENT ROCKERS. REAR-RIGHT FASCIA ROCKER SLIGHTLY TIPPED IN AT 65° F. FORWARD ROCKER 4 PARTIALLY ENGULFED IN DEBRIS.

c30. Protective Coating System

AREAS OF MINOR SURFACE RUST. SOME PEELING PAINT & RUST INSIDE STEEL PIER CAPS UNDER HATCHES.

c32. Fatigue

WELDED COVER PLATES AT PIERS.

SUBSTRUCTURE

c33. Abutment Walls

LEACHING CRACKS. A FEW RUST STAINS.

c38. Pier Columns/Bents

CRACKS. PEELING SEALER.

c37. Pier Caps

CRACKING WITH SOME RUST STAINS TO EAST CANTILEVER OF P2 CAP. OTHER CRACKS TO CONCRETE CAPS. SOME RUST INSIDE STEEL PIER CAPS UNDER HATCHES. HATCH COVER OVER WB BERM ON NW PIER CAP HAS BEEN BROKEN BY DEBRIS FROM DECK REMOVAL OF BRIDGE ABOVE.

c39. Backwalls

DEEP SPALLS WITH 360° REBAR EXPOSURE ALONG TOP OF FORWARD BAYS 2 & 3. OTHER MINOR SPALLS. RUST STAINED & LEACHING CRACKS. SOME DELAMINATED AREAS.

c43. Slope Protection

REAR CONCRETE SPLASH PAD BROKEN UP & UNDERMINED. TOP 20" OF REAR ABUTMENT FOOTING EXPOSED UNDER SPLASH PAD. FORWARD SLOPE UNDER CONSTRUCTION.