

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1813404

Inventory Bridge Number: CUY 00480 22.410

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

Sufficiency Rating: 97.0

Date Built: 7/1/1971

District: 12 Place Code (FIPS): CLEVELAND

IR 480 over CR 8 (LEE RD)

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
4	3	1	0	0	1.33
4800	4704	96	0	0	1.03
96	96				1.00
4	4				1.00
4	1	3	0	0	1.82
36)B 1 36)C 1 36)D 1					(9-0) 7

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
31390	2511	3139	3139		2.05
430	430	0	0	0	1.00
30530	2139	7632	1500		1.83
	7.5	5			
430	382	43	5	0	1.31
430	151	258	21		2.05
36)A 1					
14.0	11.2	2.8	0	0	1.27
292	227	40	25	0	2.00
N58. Deck Summary					(9-0) 6

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
3	3				1.00
3789	0	3599	190	0	2.24
256.0	0	256	0	0	2.00
0.00					
3789	0	2841	757.8	189.5	2.94
		8			
	NaN	0	0	0	
N59. Superstructure Summary					(9-0) 6

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
292.04	248	29	15		1.74
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
292.04	260	29	3		1.30
20.0	14	0	6	0	2.59
292.04	231	58	3		1.41
4.0	4		0	0	1.00
2.0	1	1	0	0	1.60
N60. Substructure Summary					(9-0) 6

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) N

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) N

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
5	4	0	0	1	4.00
2	2	0	0	0	1.00
General Appraisal					(9-0) 6
N41. Operating Status					A

General Appraisal

N41. Operating Status

Inspector Name Gerstenslager, Michael
Inspection Date/Type 11/18/2019 Routine
PE Number
Reviewer Name Seif, Youssef
Review Date 01/13/2020
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

MILLED AREAS TO BOTH EASTBOUND APPROACHES. ASPHALT PATCHES, SHALLOW SPALLS AND BROKEN UP AREAS AT FORWARD-LEFT.

c2. Approach Slabs

PAVED OVER. ASPHALT PATCHES, SHALLOW SPALLS AND CRACKS ALONG FORWARD-LEFT EXPANSION JOINT.

c4. Embankment

PILES OF CONCRETE DEBRIS

c5. Guardrail

COLLISION DAMAGE TO FORWARD-RIGHT, FWD LEFT, AND REAR LEFT GUARDRAILS. MINOR SPALL TO FORWARD-LEFT CONCRETE APPROACH.

DECK

c7.1 Floor/Slab

LEACHING CRACKS AT 20' SPACING. MOTTLED AREAS. EPOXY SMEARED AREAS (EPOXY HANGING IN SPOTS). APPROX 85 SF OF SPALLS.

c8. Wearing Surface

MANY CRACKS & MAP CRACKS. MANY CONCRETE PATCHES. APPROX 800 SF OF ASPHALT / EPOXY PATCHES AND 50SF OF SPALLS / BREAKING UP AREAS. SOME DELAMINATED AREAS. SPILLED HARDENED CONCRETE IN EB LANE #4. ROUGH CONCRETE PATCH IN EB LANE #3

c10. Median

VERTICAL CRACKS. SCALING. SPALLS. RUST STAINS.

c11. Railing

LEACHING CRACKS. SPALLS ON EXTERIORS. SPALLS FORMING OVER TRAFFIC ON NORTH RAIL OVER NB CENTER LANE & SOUTH RAIL OVER NB AND SB TURNING LANES.

c12. Drainage

PARTIALLY PLUGGED SCUPPERS.

c13. Expansion Joint

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COLLISION DAMAGE WITH MISSING ARMOR & TORN SEALS TO REAR JOINT IN EB LANE #3 FORWARD JOINT IN WB LANES #2 & #3 WITH DEBRIS ON BOTH ABUTMENT SEATS. GOUGES TO EB LANE 3 APPROACH ARMOR AT FWD. JOINT BANGS WITH LIVE LOAD IN REAR BAYS 14 & 15 (UNDER EB LANE #3). SPALLS TO EXJT HEADERS.

SUPERSTRUCTURE

c15.1 Beams/Girders

SURFACE RUST THROUGHOUT. RUSTING SECTION LOSS AT ABUTMENTS. RUSTED THRU HOLE TO WEB OF BEAMS 9 & 10 AT REAR ABUTMENT (BEHIND BEARING STIFFENER). FRETTING AT TOPS OF SOME STIFFENERS. POSSIBLE HORIZONTAL CRACK TO BEAM 12 IN BAY 11 AT 2ND XFRAME FROM REAR (NO CHANGE FROM LAST INSPECTION). POSSIBLE CRACKS TO OTHER AREAS.

c16. Diaphragm/Cross Frames

SURFACE RUST THROUGHOUT. ENDFRAME RUSTING SECTION LOSS. BENT HORIZONTAL ANGLE TO FIRST XFRAME FROM REAR IN BAY 6.

c26. Bearing Devices

SURFACE RUST, HEAVIER TO SOME. FORWARD BEARINGS 6, 15 & 17 ARE TIPPED IN SLIGHTLY.

c30. Protective Coating System

RUST THROUGHOUT. PEELING PAINT. PAINT FAILURE AT SOME BEAM ENDS.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS. MINOR DELAMS. RUST STAINS. LARGE SPALL WITH 360° REBAR EXPOSURE AT FORWARD-LEFT CORNER. OTHER MINOR SPALLS.

c38. Pier Columns/Bents

DELAMS / SPALLS AS LARGE AS 15 SF TO P1C4, P2C1, C3, C4, C6, C9.

c37. Pier Caps

MINOR CRACKS, DELAMS & SPALLS.

c39. Backwalls

SEVERAL BEAM ENDS ARE VERY CLOSE TO REAR BACKWALL. CONSTRUCTION JOINT IN REAR BAY 13 IS OPEN 2". A FEW DELAMS & SPALLS. LEACHING CRACKS.

c43. Slope Protection

5 SF THRU HOLE WITH UNDERMINING AT BASE OF REAR SLOPE (18 SF VOID).

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