

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 1814249

Inventory Bridge Number: CUY 00480 08.700 ES

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

Sufficiency Rating: 53.2

Date Built: 7/1/1980

District: 12 Place Code (FIPS): CLEVELAND

RAMP ES FROM I-480 over IR 480 MAINLINE

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
2	1	1			1.60
1700	1485	170	45		1.49
76	38	38			1.60
4	3	1			1.33
4	1	1	2	0	3.00
36)B 1 36)C 1 36)D 1					(9-0) 6

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
12615.0	8830.5	3153.8	630.8	0	1.84
696	654.2	34.8	7		1.23
11310.0	1063.14	565	113.1		1.23
	NaN	0	0	0	
696	0	626.4	69.6		2.40
36)A 1					(9-0) 5
11	11	0	0	0	1.00
72.5	36.2	0	0	36.3	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
4	4				1.00
1705	0	1534.5	170.5	0	2.40
106	0	98	8	0	2.33
0.0					
0.0					
1705	0	852.5	682	170.5	3.00
0.0	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
112.8	73.3	28.2	11.3		2.13
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
	NaN	0	0	0	
15	6	2	7	0	3.00
112.8	0	28.2	84.6		3.00
4	2	2	0	0	1.60
2	2	0	0	0	1.00
N60. Substructure Summary					(9-0) 4

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
2.0	2			0	1.00
	NaN	0	0	0	
					(9-0) 4
N41. Operating Status					A

General Appraisal

N41. Operating Status

Inspector Name: Persanyi, Andrea
 Inspection Date/Type: 07/16/2019 Routine
 PE Number: _____
 Reviewer Name: Seif, Youssef
 Review Date: 08/23/2019
 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

NOTE: SOUTH ABUTMENT IS REAR.

Comments

APPROACH

c1. Approach Wearing Surface

A FEW CRACKS. SMALL SPALL AT REAR.

c2. Approach Slabs

CRACKS. APPROX 25 SF OF CONCRETE BREAK UP & SMALL SPALL IN REAR LANE #2 AND 20 SF OF CONCRETE BREAK UP ALONG FORWARD RELJT & WEST LANE LINE.

c3. Relief Joint

CRACKS. SOME ASPHALT BREAK UP & DETERIORATION. ASPHALT PATCH TO FORWARD.

c4. Embankment

EROSION TO REAR-RIGHT AT BASE OF SLOPE (COVERED WITH VEGETATION).

c5. Guardrail

COLLISION DAMAGE TO BOTH REAR GUARDRAIL (3 BROKEN POSTS AT REAR-LEFT). SPALLING WITH EXPOSED REBAR TO FORWARD-LEFT CONCRETE APPROACH RAIL.

DECK

c7.1 Floor/Slab

TRANSVERSE LEACHING CRACKS. APPROX 350+ SF OF SPALLS WITH EXPOSED REBAR. DELAMS. MOTTLED AREAS.

c7.2 Edge of Floor/Slab

CRACKS. SPALL WITH EXPOSED REBAR AT FORWARD-RIGHT CORNER.

c8. Wearing Surface

A FEW TRANSVERSE CRACKS, SOME AS WIDE AS 1/8". MINOR DELAMS & SPALLS.

c11. Railing

HORIZONTAL & VERTICAL CRACKS THROUGHOUT. RUST STAINS. LEFT PARAPET IS COMPRESSION SPALLED AT FORWARD EXJT. OTHER MINOR SPALLS. DELAMS. COLLISION SCRAPES.

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c12. Drainage

RUSTING SECTION LOSS TO DOWNSPOUTS.

c13. Expansion Joint

REAR EXJT IS CLOSED. GAP AT REAR-RIGHT IS CLOSED (APPROACH AND BRIDGE PARAPETS TOUCHING).

SUPERSTRUCTURE

c15.1 Beams/Girders

SURFACE RUST & RUSTING SECTION LOSS THROUGHOUT, HEAVIER AT BEAM ENDS.

c16. Diaphragm/Cross Frames

SURFACE RUST. RUSTING SECTION LOSS TO ENDFRAMES.

c26. Bearing Devices

RUSTING SECTION LOSS WITH SOME PACK RUST TO ABUTMENT ROCKERS. SURFACE RUST TO OTHER ROCKERS. REAR ROCKERS 1 & 2 SLIGHTLY TIPPED OUT AT 84° F.

c30. Protective Coating System

RUSTING, HEAVY AT BEAM ENDS & ALONG LOWER FLANGES. FADED, CHALKING & PEELING THROUGHOUT.

SUBSTRUCTURE

c33. Abutment Walls

CRACKS, SOME LEACHING. RUST STAINS. DELAMS. FORWARD ABUTMENT AT RIGHT SIDE & REAR ABUTMENT UNDER BAY 1 ARE SPALLED WITH EXPOSED REBAR.

c38. Pier Columns/Bents

CRACKS. SPALLS WITH EXPOSED REBAR (SOME SEVERED) AS LARGE AS 25 SF TO P1C1-C4 & P2C1-C3. DELAMS AS LARGE AS 6 SF TO P2C4 & P3C2. OTHER MINOR SPALLS & DELAMS IN SEATS.

c39. Backwalls

LEACHING CRACKS. RUST STAINS. SPALLS AS DEEP AS 1" WITH EXPOSED REBAR IN REAR BAYS 3 & 4 AND FORWARD BAYS 2-4. LARGE DELAMS.

c40. Wingwalls

LEACHING CRACKS. REAR-LEFT TIPS OUT AS MUCH AS 1.25", REAR-RIGHT TIPS IN AS MUCH AS 3/4".