

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION FIELD REPORT

Structure File Number: 2801515

Inventory Bridge Number: GEA 00422 00.170 L

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

Sufficiency Rating: 94.3

Date Built: 7/1/1989

District: 12 Place Code (FIPS): BAINBRIDGE TWP

USR 422 over CHAGRIN RIVER, AURORA BR.

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)

QTY.	condition state				cr
	1	2	3	4	TR
2	1	1			1.60
1950	1840	110	0	0	1.08
78	78				1.00
4	4				1.00
4	4	0	0	0	1.00

N36. Safety Features:
Tr, Gr, Tm

36)B 0 36)C 0 36)D 0
(9-0) 8

c6. Approach Summary

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)

QTY.	condition state				cr
	1	2	3	4	TR
16105.70	1506	805	240		1.30
770	0.7 770				1.00
14950.70	1266 3.2	2242. 6	40		1.25
	NaN	0	0	0	
770	693	77			1.14

N36. Safety Features: Rail

36)A 1

6	6	0	0	0	1.00
84	0	63	21	0	2.67

(9-0) 7

c12. Drainage (EA) d

c13. Expansion Joint (LF) d

N58. Deck Summary

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				cr
	1	2	3	4	TR
4	4				1.00
1900	0	1425	475	0	2.67
114	8	106	0	0	1.95
0.00					
0.00					
1900	95	1425	380	0	2.59
	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

QTY.	condition state				cr
	1	2	3	4	TR
86.62	81.6	4	1		1.25
	NaN	0	0	0	
	NaN	0	0	0	
54	54	0	0	0	1.00
129.92	129. 92				1.00
	NaN	0	0	0	
86.62	82.6	0	4		1.61
4	4	0	0	0	1.00
5	2	3	0	0	1.69
2	2	0	0	0	1.00

N60. Substructure Summary

(9-0) 7

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)

QTY.	condition state				cr
	1	2	3	4	TR
0					

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

QTY.	condition state				cr
	1	2	3	4	TR
200.00		200. 00			1.33
200.00	150	50			1.33
1	1				1.00

N61. Channel Summary

(9-0) 6

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	2	0	0	0	1.00
	NaN	0	0	0	
100	50	0	50	0	3.00

General Appraisal

(9-0) 6

N41. Operating Status

A

Inspector Name Sutak, Mike

Inspection Date/Type 04/17/2019 Routine

PE Number _____

Reviewer Name Seif, Youssef

Review Date 06/26/2019

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

Comments

APPROACH

c1. Approach Wearing Surface

A FEW CRACKS. BREAKING UP ASPHALT ALONG REAR SLAB.

c2. Approach Slabs

CRACKS. ASPHALT PATCH IN TOP OF REAR BACKWALL.

c5. Guardrail

LIGHT SCALING TO REAR-RIGHT CONCRETE APPROACH RAIL (SEALED OVER).

DECK

c7.1 Floor/Slab

A FEW LEACHING CRACKS, MOTTLED AREAS (MAINLY IN BAY 2 SPAN 2) & SMALL HAUNCH SPALLS.

c8. Wearing Surface

A FEW CRACKS. LOCALIZED HEAVY SCALING (MAINLY TO BERMS). APPROX 500+ SF OF EPOXY CONCRETE PATCHES THROUGHOUT LANE #2. 30 SF OF BROKEN UP CONCRETE AND SHALLOW SPALLS IN LANE 2.

c11. Railing

LIGHT SCALING WITH PEELING SEALER. A FEW CRACKS AND RUST STAINS.

c12. Drainage

DIRT AND DEBRIS ALONG RAILING IN LOW SPEED BERM.

c13. Expansion Joint

GOUGES IN BOTH JOINTS WITH MAJOR COLLISION DAMAGE TO REAR. TORN SEAL IN REAR JOINT. ASPHALT PATCH TO CONCRETE AT FORWARD EXJT HEADER IN LANE #2. DIRT & DEBRIS IN SEALS.

SUPERSTRUCTURE

c15.1 Beams/Girders

RUSTED SECTION LOSS NEAR BOTH ABUTMENTS. SURFACE RUST & RUSTING SECTION LOSS THROUGHOUT, HEAVIER TO LOWER FLANGES & FASCIAS.

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c16. Diaphragm/Cross Frames

SURFACE RUST TO ALL EXCEPT ENDFRAMES.

c26. Bearing Devices

RUSTED SECTION LOSS TO ABUTMENT BEARINGS. SURFACE RUST TO PIER BEARINGS.

c30. Protective Coating System

NOTE: BEAM ENDS PAINTED 10/2015. SURFACE DULLING & RUST THROUGHOUT. AREAS OF PEELING PAINT.

SUBSTRUCTURE

c33. Abutment Walls

ABUTMENTS SEALED. A FEW CRACKS & RUST STAINS.

c39. Backwalls

BACKWALLS REPAIRED / SEALED. A FEW MINOR SPALLS & RUST STAINS.

c42. Scour

SCOUR HOLES AS DEEP AS 2' AROUND P1 & P2 (WITH PONDED WATER). SCOUR HOLE AS DEEP AS 3' AROUND P3 (NO WATER). PROBING & VISUAL INSPECTION INDICATE NO PIER FOOTING EXPOSURE.

CHANNEL

c51. Alignment

RIVER S-CURVES BACK TOWARDS REAR ABUTMENT.

c52. Protection

SOME AREAS OF WASHED AWAY STONE.