

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BRIDGE INSPECTION REPORT

Structure File Number: 2801655

Inventory Bridge Number: GEA 00422 09.860 L

USR422 over LA DUE RES. 0.71 MI E 44

Inspection Type: Routine and Underwater

Inspection Date: 08/26/2014

District: 12 Owner: OHIO STATE TRANSPORTATION DEPARTMENT

County: GEAUGA Inspection Responsibility: OHIO STATE TRANSPORTATION

DEPARTMENT

Place Code (FIPS): AUBURN TWP Maintenance Responsibility: OHIO STATE TRANSPORTATION

DEPARTMENT

Bridge Type: STEEL Lead Inspector: Sutak, Mike

Type of Service: HIGHWAY Reviewed By: Seif, Youssef

STATE OF OHIO DEPARTMENT OF TRANSPORTATION APPROACH INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

APPROACH

(c6) Approach Summary: 6 Recommended: 7

c1. Approach Wearing Surface (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
2	1.8	0.2			1.14

CRACKS. MINOR BREAKING UP AREAS.

c2. Approach Slabs (SF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0	1425	380	95	0	1.80

LONG CRACKS. MINOR SPALLS AT TOPS OF BACKWALLS. 1 SF SPALL AT FORWARD.

c4. Embankment (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
4	4				1.00

c5. Guardrail (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	4	0	0	0	1.00

Inspection Date: 08/26/2014 Page 1 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION APPROACH INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 2 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

DECK

(58) NBIS Deck Summary: 7 Recommended: 9

c7.1 Floor/Slab (SF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
9093.26	8638.6	454.7			1.07

A FEW TRANSVERSE CRACKS. FLOOR <1% DETERIORATED.

c7.2 Edge of Floor/Slab (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
440	440	0	0	0	

c8. Wearing Surface (SF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
8360	7942	418			1.07
CRACKS. WS <1% D	ETERIORATED.				

c11. Railing (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
440	352	88			1.27

2 SF SPALL OF INSIDE FACE OF RIGHT RAILING AT EMBEDDED WOOD 2 X 4 IN SPAN #3. LEACHING VERTICAL CRACKS.

c12. Drainage (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	2	0	0	0	1.00

c13. Expansion Joint (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	0	41	41	0	3.00

FORWARD SEAL IS LEAKING IN BAYS 2-5. THE EPOXY RESIN USED TO FILL THE VOID LEFT BY THE REMOVAL OF PART OF THE FORWARD BACKWALL EXJT ARMOR HAS CRACKED AND SOME OF THE RESIN HAS POPPED OUT. THE DECK SIDE IS 1 1/2" LOWER THAN THE SLAB SIDE AT THE FORWARD JOINT. GOUGES IN BOTH EXJT BACKWALL ARMOR.

Inspection Date: 08/26/2014 Page 3 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DECK INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 4 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

SUPERSTRUCTURE

(59) NBIS Superstructure Summary: 6 Recommended: 7

c14. Alignment (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
4	4				1.00

c15.1 Beams/Girders (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	858	462	0	0	1.45

RUSTED SECTION LOSS AT BOTH ABUTMENTS AND EXTERIORS OF FASCIA BEAMS (WORST IS BEAM 6 AT PIER 1).

c16. Diaphragm/Cross Frames (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	90	5	5	0	1.68

ENDFRAME RUSTING SECTION LOSS. TWO CRACKED ENDFRAME WELDS AT FORWARD ABUTMENT, ONE AT BEAM #5 AND ONE AT BEAM #6. ENDFRAMES #3, #4 & #5 ARE BENT AT REAR AND BAY 5 AT FORWARD.

c26. Bearing Devices (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	18	12	0	0	1.50

RUSTED SECTION LOSS.

c30. Protective Coating System (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	0	1240.8	66	13.2	2.40

PEELING & FADED PAINT. 5-10% RUST. PCS IS 5-10% DETERIORATED.

c32. Fatigue (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	1320	0	0	0	1.00

WELDED MOMENT PLATES AT PIERS.

Inspection Date: 08/26/2014 Page 5 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 6 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

SUBSTRUCTURE

(60) NBIS Substructure Summary: 7 Recommended: 9

c33. Abutment Walls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
82.67	66.2	16.5			1.27

LEACHING CRACKS. RUST STAINS. APPROXIMATELY 15 SF OF SPALLS AND DELAMINATIONS.

c35. Abutment Columns/Bents (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	NaN	0	0	0	

c34. Abutment Caps (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
82.67	NaN	0	0	0	

c38. Pier Columns/Bents (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	10.8	1.2	0	0	1.14

RUSTING SECTION LOSS OF STEEL AND SCALING OF CONCRETE AT WATERLINE.

c36. Pier Walls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
124.00	NaN	0	0	0	

c37. Pier Caps (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
124.00	124.00				1.00

CRACKS TO CAPS. TWO MINOR SPALLS ON RIGHT END OF PIER #1 CAP.

c39. Backwalls (LF)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
82.67	82.67				1.00

Inspection Date: 08/26/2014 Page 7 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

SUBSTRUCTURE

CRACKS. RUST STAINS. TOP OF FORWARD BACKWALL IS BROKEN UP IN LANE #2 AT OLD REPAIR.

c40. Wingwalls (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	4	0	0	0	1.00

c42. Scour (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
5	5				1.00

DIVE INSPECTION BY GPI.

c43. Slope Protection (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	2	0	0	0	1.00

Inspection Date: 08/26/2014 Page 8 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 9 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CHANNEL INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

CHANNEL

(61) NBIS Channel Summary: 8 Recommended: 9

c51. Alignment (LF)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

200.00 200.00 1.00

c52. Protection (LF)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

200.00 200.00 1.00

c53. Hydraulic Opening (EA)

Total Quantity State 1 State 2 State 3 State 4 Transition Rating

1 1 1.00

WATER DEPTH AT NORTH END OF PIER 2 = 13.5'.

REFERENCE POINT WAS TOP OF PIER 2 CAP ON GEA-422- 0986L TO WATER SURFACE = 6.1'.

Inspection Date: 08/26/2014 Page 10 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION CHANNEL INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 11 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SIGNS/UTILITIES INSPECTION

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

SIGNS/UTILITIES

(41) Open, Posted or Closed:

c55. Signs (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	2	0	0	0	1.00

c56. Sign Supports (EA)

Total Quantity	State 1	State 2	State 3	State 4	Transition Rating
0.00	NaN	0	0	0	

Inspection Date: 08/26/2014 Page 12 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION SIGNS/UTILITIES INSPECTION PHOTOS

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 13 Reviewed Date: 10/16/2014

STATE OF OHIO DEPARTMENT OF TRANSPORTATION REVIEW

Structure File Number: 2801655 Inventory Bridge Number: GEA 00422 09.860 L Bridge Type: 3 - STEEL/2 - BEAM/2 - CONTINUOUS

Sufficiency Rating: 99.3 Date Built: 7/1/1960

District: 12 Place Code (FIPS): AUBURN TWP USR422 over LA DUE RES. 0.71 MI E 44 Type of Service on: HIGHWAY

Inspection Date: 08/26/2014 Page 14 Reviewed Date: 10/16/2014