# STATE OF OHIO BRIDGE INSPECTION REPORT

Structure File Number: 2801744 Inventory Bridge Number: GEA-00422-0986R\_(2801744) USR 422 over LA DUE RES. 0.71 MI E 44 Inspection Type: Routine Inspection Date: 07/09/2020

District: 12

County: 28 - Geauga

Place Code (FIPS): 02904

Bridge Type:

4 - Steel continuous

02 - Stringer/Multi-beam or Girder

N- Not Applicable

Type of Service:

1 - Highway

Maintenance Responsibility: 01 - State Highway Agency Inspection Responsibility: 01 - State Highway Agency Routine Maintenance Responsibility: 01 - State Highway Agency

Lead Inspector: Gerstenslager, Michael Reviewed by: Youssef Seif

#### PAGE NUMBER LOCATION MAP 4 EXECUTIVE SUMMARY 5 NATIONAL BRIDGE INVENTORY 6 OHIO BRIDGE INVENTORY 9 ELEMENTS 13 UNDER RECORDS 15 CHANNEL BED MEASUREMENTS 16 MAINTENANCE NEEDS 17 MAINTENANCE NEEDS PICTURES 18 PICTURES 19 SKETCHES 20 21 **REVIEWER COMMENTS** LOAD RATING COMMENTS 22 **INSPECTOR COMMENTS - COMPLEX** 23 24 HISTORIC BRIDGE DATA **HISTORICAL PHOTOS** 28

# **Ohio Bridge Inspection Summary Report**

2: District 12 02904 - A	UBURN TWP (GEA county)
21: Major Maint A/B	01 - State Highway Agency
225 Routine Main A/B	01 - State Highway Agency
221 Inspection A/B	01 - State Highway Agency
220: Inv. Location GE	A

# GEA-00422-0986R (2801744)

 5A: Inventory Route
 1
 00422

 7: Facility On
 USR 422

 6: Feature Ints
 LA DUE RES. 0.71 MI E 44

 9: Location
 0.92 MI E SR44

	Condition		][	Str	ucture Ty	pe
58: Deck	7 - Good Conditio	า	43: Bridge Type 4 - Steel continuous			
58.01 Wearing Surface	7 - Good (1% distre		02 - Stringer/Multi-beam or Girder			
58.02 Joint	4- Poor (heavy leak	,	N- Not Applicable			
59: Superstructure	6 - Satisfactory Co	•	45: Spans Mair			/ 0
59.01 Paint & PCS	6 - Satisfactory (5-1		107: Deck Type			e Cast-in-Place
60: Substructure	6 - Satisfactory Co		408: Composite		Y - Compo	site Construction
61: Channel	8 - Banks are prote		414A Joint Typ		3 - Compre	
61.01 Scour	7 - Good		414B: Joint Typ		N - None	
62: Culverts	N - Not Applicable		108A: Wearing	Surface	(concurrent deck)	nic Concrete tly placed with structura
67.01 GA	6		_		N- Not App	
	Appraisal		422: WS Date		01/01/1994	ļ
36: Rail, Tr, Gd, Term Std	1 1	1 1	423: WS Thick	. ,	2.0	
72: Approach Alignment	6 - Equal to present	t minimum criteria	482: Protective	•	-	ystem OZEU
113: Scour Critical	8 - Stable for scour	conditions	483: PCS Date		01/01/1987	
71: Waterway Adequacy	6 - Occasional Ove	rtopping of Approaches	453: Bearing Ty	-		s & Bolsters
	Geometric	-	455: Bearing Ty		N - None	
48: Max Span Length (ft)	60.0		528: Foundn: A			Piles (Other size)
49: Structure Length (ft)	220.0	)	536: Foundn: A			Piles (Other Size)
52: Deck Width, Out-To-O		)	539: Foundn: P		0 - Other	Piles (Other size)
424: Deck Area (sf)	9085	0			0 - Other	
32: Appr Roadway Width (		.0		Age	and Serv	ice
51: Road Width, Curb-Cur			27: Year Built/	106 Reha	b 1960	/ 1994
50A: Curb/SW Width: Left			42A: Service O	n	1 - Highw	ay
50A: Curb/SW Width: Righ	. ,		42B: Service U	nder	5 - Water	way
34: Skew (deg)	0		28A: Lanes on		02	
33: Bridge Median	0 - N	o median	28B: Lanes Un	der	00	
54B: Min Vert Undercleara	nce (ft) 0		19: Bypass Len	ngth	1	
336A: Min Vert Clrnce IR (			29: ADT		6832	
336B: Min V Clr IR Non-Ca	( )		109: % Trucks	(%)	10	
578: Culvert Length (ft)	0			Insr	pections	
	Load Posting				Months	
41: Op/Post/Closed	A - Open		90: Routine Ins	p.	12	07/09/2020
	or above legal loads		92A: FCM Insp	. N		
70.01: Date			92B: Dive Insp.	Y	60	06/11/2019
70.02: Sign Type			92C: Special In			
734: Percent Legal (%)	150		92D: UBIT Insp			
704: Analysis Date	06/23/2020		92E: Drone Insp	Э.		
63: Analysis Method	8 - Load and Resista (LRFR) rating report method using HL-93	by rating factor (RF)	Inspector Ge	rstenslag	er,Michael	

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Inspector: Michael Gerstenslager Inspection Date: 07/09/2020

**Location Map** 

# Structure Number:2801744Facility Carried:USR 422

**Bridge Inspection Report** 

Inspector: Michael Gerstenslager Inspection Date: 07/09/2020

**Bridge Inspection Report** 

ODOT District:	12	G	EA-00422-	0986R	2_ <b>(280</b> 1	1744)		Date Built:	07/01/1960
Major Maint:	01 - State Highway Agency	Facility Carried:	USR 422		Traffic On:	1 - Highway		Rehab Date:	01/01/1994
Routine Maint:	01 - State Highway Agency	Feature Inters:	LA DUE RES. 0.71 N	1I E 44	Traffic Under	: 5 - Waterway		Insp. 01 - Resp A:	State Highway Agency
FIPS Code:	02904 - AUBURN TWP (GEA count	y)	Location: GEA		0.92 MI	E SR44		Insp Resp B:	
	Inspector Ger	stenslager,Michael	Inspection Date	07/09/2020		Reviewer Youss	sef Seif	Roop D.	

## National Bridge Inventory

Status	0 - ND		Sufficiency Rating		99.4
ld	lentification			Inspections	
(1) State Code	395 - Ohio		(90) Inspection Date		07/09/20 20
(8) Structure File Number (SFN)	2801744		(91) Designated Inspection F	requency	12
(7) Facility Carried	USR 422		(92) Critical Feature Inspection	on	(93) CFI Date
(208) Route on the Bridge	10 - State (ODOT)		A. Fracture Critical Detail	Ν	
		(1011100)	B. Underwater Inspection	Y 60	06/11/2019
(2) Highway Agency District	12		C. Other Special Inspection	on N	
(3) County Code	28 - Geauga		D.01 Snooper Inspection	Ν	
(209) Interstate Mile Marker			E.01 Drone Inspection		
(201) Special Designation	R			Condition	]
(4) Place Code (FIPS)	02904 - AUBURN	TWP (GEA county)			
(5) Inventory Route			(58) Deck	7 - Good Condition	
(A) Record Type On/Under Always "On"	1: Route carried "o	n" the structure			
(B) Route Signing Prefix (Highway System)	2 - U.S. NUMBERI	ED HIGHWAY	(58.01) Wearing Surface 7 - Good (1% di		
(C) Designated Level of Service (Highway Designation)	1 - MAINLINE		(58.02) Expansion Joint	4- Poor (heavy leaking)	
(D) Route Number	00422				
(E) Directional Suffix	0 - NOT APPLICA	BLE	(59) Superstructure	6 - Satisfactory Condition	
(6) Features Intersected	LA DUE RES. 0.71	MI E 44			
(9) Location	0.92 MI E SR44		(59.01) Protective Coating System (PCS)	6 - Satisfactory (5-10% co	rr.)
(11) Milepoint	09.860				
(12) Base Highway Network	Inventory Route is	on the Base Network	(60) Substructure	6 - Satisfactory Condition	
(13A) LRS Inventory Route	422				
(13B) Subroute Number	0		(61) Channel & Channel Protection	8 - Banks are protected	
(16) Latitude	41.38363	Degrees			
(17) Longitude	-81.20328	Degrees	(61.01) Scour	7 - Good	
(16.01) Latitude - Ohio	41.383628				
(17.01) Longitude - Ohio	-81.203275		(62) Culvert	N - Not Applicable	
(98A) Border Bridge State Code			(07.04) 0		
(98B) Border Bridge State Percent Responsibility (99) Border Bridge Struct No.			(67.01) General Appraisal	6 - Satisfactory Condition	(minor deterioration)

ODOT District: 12	GEA-00422-0	986R_(2801744)	Date Built: 07/01/1960
Major Maint: 01 - State Highway Ag		Traffic On: 1 - Highway	Rehab Date: 01/01/1994
Routine Maint: 01 - State Highway Ag	ency Feature Inters: LA DUE RES. 0.71 MI	E 44 Traffic Under: 5 - Waterway	Insp. 01 - State Highway Agency Resp A:
FIPS Code: 02904 - AUBURN TW		0.92 MI E SR44	Insp Resp B:
Inspect	•	7/09/2020 Reviewer Youss	ef Seif
Structur	e Type and Material	Load	d Rating and Posting
(43) Main Structure Type A	. 4 - Steel continuous	(31) Design Load	6 - HS 20+Mod
В	. 02 - Stringer/Multi-beam or Girder	(63) Operating Rating Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
C	- N- Not Applicable	(64) Operating Rating Factor	1.8
(44) Approach Type A	. 0 - Other	(65) Inventory Rating Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
В	. 00 - Other	(66) Inventory Rating Factor	1.4
С	N- Not Applicable	(41) Structure Open, Posted, or Closed to Traffic	A - Open
(45) Number of Spans in Main U	nit 4	(70) Bridge Posting	5 - Equal to or above legal loads
(46) Number of Approach Spans	s 0	(70.01) Date Posted	
(107) Deck Structure Type	1 - Concrete Cast-in-Place	(70.02) Posted Sign Type	
(107.01)		(70.03) Posted Weight	
(108B) External Deck Protection	3 - Ероху		
(108C) Internal Deck Protection	1 - Epoxy Coated Reinforcing		
(422) Wearing Surface Date	01/01/1994		
	A Marcallilla Oscialita (secondaria)		A
(108A) Wearing Surface Type	<ol> <li>Monolithic Concrete (concurrently placed with structural deck)</li> </ol>		Appraisal
(108A) Wearing Surface Type (108A.01)		(67) Structural Evaluation	6 - Equal to present minimum criteria
	placed with structural deck)	(67) Structural Evaluation (68) Deck Geometry	
(108A.01) (423) Wearing Surface	placed with structural deck)		6 - Equal to present minimum criteria
(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date	placed with structural deck) N- Not Applicable 2.0 in	(68) Deck Geometry (69) Underclearances,	6 - Equal to present minimum criteria 7 - Better than present minimum criteria
(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date	placed with structural deck) N- Not Applicable 2.0 in 01/01/1987	(68) Deck Geometry (69) Underclearances, Horizontal and Vertical	6 - Equal to present minimum criteria 7 - Better than present minimum criteria N - Not applicable
(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date	placed with structural deck) N- Not Applicable 2.0 in 01/01/1987 ge of Service	<ul> <li>(68) Deck Geometry</li> <li>(69) Underclearances, Horizontal and Vertical</li> <li>(71) Waterway Adequacy</li> <li>(72) Approach Roadway</li> </ul>	<ul> <li>6 - Equal to present minimum criteria</li> <li>7 - Better than present minimum criteria</li> <li>N - Not applicable</li> <li>6 - Occasional Overtopping of Approaches</li> </ul>
(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date (27) Year Built	placed with structural deck) N- Not Applicable 2.0 in 01/01/1987 ge of Service 1960	<ul> <li>(68) Deck Geometry</li> <li>(69) Underclearances, Horizontal and Vertical</li> <li>(71) Waterway Adequacy</li> <li>(72) Approach Roadway Alignment</li> </ul>	<ul> <li>6 - Equal to present minimum criteria</li> <li>7 - Better than present minimum criteria</li> <li>N - Not applicable</li> <li>6 - Occasional Overtopping of Approaches</li> </ul>
(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date (483) Protective Coating System Date (27) Year Built (263) Date Built (106) Year Reconstructed (264) Major Reconstruction Date	placed with structural deck) N- Not Applicable 2.0 in 01/01/1987 ge of Service 1960 07/01/1960 1994 01/01/1001	<ul> <li>(68) Deck Geometry</li> <li>(69) Underclearances, Horizontal and Vertical</li> <li>(71) Waterway Adequacy</li> <li>(72) Approach Roadway Alignment</li> <li>(36) Traffic Safety Feature</li> </ul>	<ul> <li>6 - Equal to present minimum criteria</li> <li>7 - Better than present minimum criteria</li> <li>N - Not applicable</li> <li>6 - Occasional Overtopping of Approaches</li> <li>6 - Equal to present minimum criteria</li> </ul>
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(108A.01) (423) Wearing Surface Thickness (483) Protective Coating System Date (47) Year Built (263) Date Built (106) Year Reconstructed (264) Major Reconstruction Date (42) Type of Service	placed with structural deck) N- Not Applicable 2.0 in 01/01/1987 ge of Service 1960 07/01/1960 1994 01/01/1001	<ul> <li>(68) Deck Geometry</li> <li>(69) Underclearances, Horizontal and Vertical</li> <li>(71) Waterway Adequacy</li> <li>(72) Approach Roadway Alignment</li> <li>(36) Traffic Safety Feature</li> <li>A. Bridge Railings:</li> <li>B. Transitions:</li> <li>C. Approach Guardrail</li> </ul>	<ul> <li>6 - Equal to present minimum criteria</li> <li>7 - Better than present minimum criteria</li> <li>N - Not applicable</li> <li>6 - Occasional Overtopping of Approaches</li> <li>6 - Equal to present minimum criteria</li> <li>1 - Meets acceptable standards</li> <li>1 - Meets acceptable standards</li> </ul>
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ODOT District: 12	GEA-0	0422-0986R_(2801744)	Date Built: 07/01/1960
Major Maint: 01 - State Highway	Agency Facility Carried: USR 422	Traffic On: 1 - Highway	Rehab Date: 01/01/1994
Routine Maint: 01 - State Highway	Agency Feature Inters: LA DUE F	RES. 0.71 MI E 44 Traffic Under: 5 - Waterway	Insp. 01 - State Highway Agenc Resp A:
FIPS Code: 02904 - AUBURN T	TWP (GEA county) Location:	GEA 0.92 MI E SR44	Insp Resp B:
Inspe	ector Gerstenslager,Michael Inspect	tion Date 07/09/2020 Reviewer You	
	Classification		Geometric Data
(112) NBIS Bridge	Yes	(48) Longest Span	60.0 Ft.
(104) Highway System of the Inventory Route	1 - Structure/Route is on NHS	(49) Structure Length	220.0 Ft.
(26) Functional Classification of Inventory Route	02 - Rural - Principal Arterial - O	ther (50A) Curb/Sidewalk Left S	ide - Width 0 Ft.
		(50B) Curb/Sidewalk Right	Side - Width 0 Ft.
(100) Strahnet Highway Designation	Not a STRAHNET route	(51) Brdg Roadway Width C	Curb-to-Curb 38.0 Ft.
(101) Parallel Structure Designation	R - Right structure (North or Eas	t) (52) Deck Width, Out-to-Ou	t 41.3 Ft.
(102) Direction of Traffic	1-way traffic	(32) Approach Roadway W	idth 38.0 Ft.
(103) Temporary Structure Design		(33) Bridge Median	0 - No median
(105) Federal Lands Highways	Not Applicable	(34) Skew	0 De
(110) Designated National Network	Inventory route not on network	(35) Structure Flared	0 - No flare
(20) Toll	3 - On Free Road		Clearances
(225) Routine Maintenance Responsibility	A. 01 - State Highway Agency	(10) Practical Maximum Ve	rtical Clearance 99 Ft.
1 2	В.	(53) Minimum Vertical Clea	rance Over Bridge Roadway 99 Ft.
(21) Maintenance Responsibility (21B) Major Maint. Responsibility B	01 - State Highway Agency	(47) Total Horizontal Cleara	nnce (Inventory Route) 38 Ft.
(221) Inspection Program Responsibility	A. 01 - State Highway Agency	(54) Minimum Vertical Under	er Clearance B. 0 Ft.
	В.	,	A. N - Feature not a highway or railroad
(22) Owner	01 - State Highway Agency	(56) Minimum Lateral Unde	r Clearance on Left 0 Ft.
(37) Historical Significance	5 - Not eligible	(55) Minimum Lateral Unde	r Clearance on Right B. 0 Ft.

**Navigation Data** 

Ft.

Ft.

Ft.

0.0

0.0

0.0

(38) Navigation Control

(39) Nav Vert Clearance

(111) Pier or Abutment Protection

(116) Minimum Navigation Vertical Clearance, Vertical Lift Bridge

(40) Nav Horizontal Clearance

0 - No navigation control on waterway (bridge permit not required)

A. N - Feature not a highway or railroad

#### **Inventory Route Clearances**

NBI 005A: On/Under	1: Route carrie	d "on" th	e structure	
NBI 005D: Route No.	00422			
	Cardinal Direction		<u>Non-Cardinal</u> Direction	-
(336) Minimum Vertical Clearance on IR	99	Ft.	0	Ft.
(335) Minimum Horizontal Clearance on IR	38	Ft.	0	Ft.

#### Ohio Bridge Inventory

General					
(203) Bridge Name (Dedicated Name)					
(204) Ohio Designated MPO	08 - NOACA (Cleveland)				
(205) Route Number Extension					
(206) Inventory Preferred Route	NP - Non Preferred Route				
(5.01) Priority System Code (Inventory Route)					
(213) NLF_ID Inventory Route	SGEAUS00422**C				
(218) Major Bridge	N - No				
(220) Inventory Location	GEA				
(226) Seismic Susceptibility	N - not applicable				
(227) GASB	Y - Yes				
(236) Future Traffic Factor	1.388				
(245) Aperture Cards Fabrication	2 - No				
(246) Aperture Cards Original	2 - No				
(247) Aperture Cards Repair	1 - Yes				
(248) Original Construction Project Number	031859				
(251) Standard Drawing Number					
(252) Microfilm Reel Number	GEA005				
(261) Bridge Remarks					

#### GEA-00422-09860-R

(265) Electric Line Present	U - Unknown
(266) Gas Line Present	U - Unknown
(269) Sanitary Sewer Present	U - Unknown
(306) NBIS Bridge Length	220
(207) Route Under the Bridge	99

Inventory Route Clearances					
Inventory Route	Cardinal	Non-Cardinal			
(336) Minimum Vertical Clearance	99	0	ft.		
(335) Minimum Horizontal Clearance	38	0	ft.		

Load Rating				
(717) 2F1 Operating Rating Factor (GVW 15 T)	4.797			
(720) 3F1 Operating Rating Factor (GVW 23 T)	3.320			
(723.01) 4F1 Operating Factor (GVW 27 T)	2.973			
(726.01) 5C1 Operating Rating Factor (GVW 40 T)	2.604			
(723.02) SU4 Operating Rating Factor (GVW 27 T)	2.943			
(726.02) SU5 Operating Rating Factor (GVW 31 T)	2.711			
(732.01) SU6 Operating Rating Factor (GVW 34.75 T)	2.464			
(732.02) SU7 Operating Rating Factor (GVW 38.75 T)	2.291			
(735) EV2 Operating Rating Factor (GVW 28.75 T)	3.139			
(738) EV3 Operating Rating Factor (GVW 43 T)	2.078			
(734) Ohio Percent Legal	150			
(705) Load Rater First Name	BRADLEY			
(706) Load Rater Last Name	NOLL			
(707) Load Rater PE Number	81740			
(704) Load Rating Date	06/23/2020			
(708) Load Rating Software	3 - AASHTO BrR (VIRTIS)			
(709) Rating Source	1 - Plan information available for load rating analysis (Default)			
	Inspection Access			

(92.02) Snooper Inspection Traffic Control

(92.03) Snooper Inspection Est. Crew Hours

(459) Inspection Access

N - The bridge does not include this feature

(24) Temporary Subdexking       N - No         (404) Approach Slab Type       1 - Reinforced Concrete         (405) Approach Slab Type       0         1       2       3         (406) Bridge Median Type       N - None       N - Non Barrier       N - No Joint         (407) Bridge Reling Type       N - None       C - 32* Deflector Type Parapet (New Jersey Shape)       N - No Joint         (409) Composite Deck Code       C - 32* Deflector Type Parapet (New Jersey Shape)       Y - Composite Construction         (419) Expansion Joint with Trough Retrofit 2       N - No       N - No         (421) Joint Trough (Y/N)       N - No       N - No         (431) Fence       N - The bridge does not include this feature       (433) Glare Screen         (434) Noise Barrier Walls       N - The bridge does not include this feature         (424) Deck Area       908.0       None         (427) Left Sidewalk/Curb Material       N - None         (429) Exite Sidewalk/Curb Material       N - None rN/A (RR, Pedestrian, etc.)         (420) Exite Sidewalk/Curb Material       N - None		Deck & Approach					
(405) Approach Slab Length       0         1       2       3         (406) Bridge Median Type       N - None       N - Non Barrier       N - No Joint         (407) Bridge Railing Type       N - None       N - Non Barrier       N - No Joint         (407) Bridge Railing Type       C - 32" Deflector Type Parapet (New Jersey Shape)       N - No Joint         (408) Composite Deck Code       Y - Composite Construction       N - No         (419) Expansion Joint with Trough Retrofit 2       N - No       N - No         (421) Joint Trough (Y/N)       N - No       N - No         (431) Fence       0       N - The bridge does not include this feature         (433) Glare Screen       N - The bridge does not include this feature         (434) Noise Barrier Walls       N - The bridge does not have Noise Barrier Walls         (424) Deck Area       9085.0         (425) Left Sidewalk/Curb Material       N - None         (426) Left Sidewalk/Curb Material       N - None or N/A (RR, Pedestrian, etc.)         (429) Right Sidewalk/Curb Material       N - None	(224) Temporary Subdecking		N - No				
1     2     3       (406) Bridge Median Type     N - None     N - Non Barrier     N - No Joint       (407) Bridge Railing Type     C - 32° Deflector Type Parapet (New Jersey Shape)     N - No Joint       (408) Composite Deck Code     Y - Composite Construction     Y - Composite Construction       (419) Expansion Joint with Trough Retrofit 2     N - No     N - No       (421) Joint Trough (Y/N)     N - No     N - No       (431) Fence     N - The bridge does not include this feature       (432) Fence Height on Bridge     0       (433) Glare Screen     N - The bridge does not include this feature       (434) Noise Barrier Walls     N - The bridge does not have Noise Barrier Walls       (424) Deck Area     908.0       (425) Left Sidewalk/Curb Itype     N - None       (426) Left Sidewalk/Curb Type     N - None or N/A (RR, Pedestrian, etc.)       (429) Motier Barrier Walls     N - None or N/A (RR, Pedestrian, etc.)	(404) Approach Slab Type		1 - Reinforced Concrete				
(406) Bridge Median TypeN - NoneN - Non BarrierN - No Joint(407) Bridge Railing TypeC - 32° Deflector Type Parapet (New Jersey Shape)(408) Composite Deck CodeY - Composite Construction(419) Expansion Joint with Trough Retroft 2N - No(421) Joint Trough (Y/N)N - No(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not include this feature(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None(428) Left Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(405) Approach Slab Length		0				
(407) Bridge Railing TypeC - 32" Deflector Type Parapet (New Jersey Shape)(408) Composite Deck CodeY - Composite Construction(419) Expansion Joint with Trough Retrofit 2N - No(421) Joint Trough (Y/N)N - No(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not include this feature(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None		1	2		3		
(408) Composite Deck CodeY - Composite Construction(419) Expansion Joint with Trough Retrofit 2N - No(421) Joint Trough (Y/N)N - No(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(406) Bridge Median Type	N - None	N - Non Barrier		N - No Joint		
(419) Expansion Joint with Trough Retrofit 2N - No(421) Joint Trough (Y/N)N - No(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not include this feature(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(407) Bridge Railing Type		C - 32" Deflector Type Parapet (New Je	ersey Shape)			
(421) Joint Trough (Y/N)N - No(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None or N/A (RR, Pedestrian, etc.)	(408) Composite Deck Code		Y - Composite Construction				
(431) FenceN - The bridge does not include this feature(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None(428) Left Sidewalk/Curb TypeN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(419) Expansion Joint with Trough Retrofit 2		N - No				
(432) Fence Height on Bridge0(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None(428) Left Sidewalk/Curb TypeN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(421) Joint Trough (Y/N)		N - No				
(433) Glare ScreenN - The bridge does not include this feature(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None(428) Left Sidewalk/Curb TypeN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(431) Fence		N - The bridge does not include this fea	ture			
(434) Noise Barrier WallsN - The bridge does not have Noise Barrier Walls(424) Deck Area9085.0(427) Left Sidewalk/Curb MaterialN - None(428) Left Sidewalk/Curb TypeN - None or N/A (RR, Pedestrian, etc.)(429) Right Sidewalk/Curb MaterialN - None	(432) Fence Height on Bridge		0				
(424) Deck Area     9085.0       (427) Left Sidewalk/Curb Material     N - None       (428) Left Sidewalk/Curb Type     N - None or N/A (RR, Pedestrian, etc.)       (429) Right Sidewalk/Curb Material     N - None	(433) Glare Screen		N - The bridge does not include this fea	ture			
(427) Left Sidewalk/Curb Material     N - None       (428) Left Sidewalk/Curb Type     N - None or N/A (RR, Pedestrian, etc.)       (429) Right Sidewalk/Curb Material     N - None	(434) Noise Barrier Walls		N - The bridge does not have Noise Ba	rrier Walls			
(428) Left Sidewalk/Curb Type     N - None or N/A (RR, Pedestrian, etc.)       (429) Right Sidewalk/Curb Material     N - None	(424) Deck Area		9085.0				
(429) Right Sidewalk/Curb Material N - None	(427) Left Sidewalk/Curb Material		N - None				
	(428) Left Sidewalk/Curb Type		N - None or N/A (RR, Pedestrian, etc.)				
(430) Pints Sidewalk/Outh Type NJ, None or N/A (PR, Pedestrian, etc.)	(429) Right Sidewalk/Curb Material		N - None				
(450) Right oldewalk out bit Type Reference of the Refere	(430) Right Sidewalk/Curb Type		N - None or N/A (RR, Pedestrian, etc.)				

#### Substructure

Substructure					
(526) Abutment Forward Type	6 - Stub - Capped Pile (Single Row Piles)				
(527) Abutment Forward Material Type	2 - Concrete				
(528) Abutment Forward - Foundation Type	1 - Steel H Piles (Other size)				
(531) Abutment Rear Type	6 - Stub - Capped Pile (Single Row Piles)				
(532) Abutment Rear Material Type	2 - Concrete				
(533) Abutment Rear - Foundation Type	1 - Steel H Piles (Other Size)				
(534) Pier 1 (Predominate) Type	5 - Capped Column				
(535) Pier 1 (Predominate) Material	2 - Concrete				
(536) Pier 1 Type - Foundation Type	1 - Steel H Piles (Other size)				
(537) Pier 2 Type	N - None				
(538) Pier 2 Material	N - None				
(539) Pier 2 Type - Foundation Type	0 - Other				
(547) Slope Protection Type	3 - Rip Rap (dumped rock or rock channel protection)				

	Su	perstructure		
(711) Live Load Response	S - Sati	sfactory		
(468) Hinges/Pins/Hangers Type	N - Not	Applicable (structures with no hinges)		
(409) Deck Drainage Type	0 - Othe	r (Natural-off the bridge ends)		
(411) Deck Concrete Type	U - Unk	nown		
	А	В	С	
(414) Expansion Joint Type	3 - Compression Seal	N - None	N - None	
(301) Horizontal Curve Degree				
(453) Bearing Device 1, Type	2 - Rock	kers & Bolsters		
(455) Bearing Device 2, Type	N - Non	e		
(465) Framing Type	N - Non	e or Not Applicable		
(466) Haunched Girder	N - Brid	ge does not contain a haunched girde	r	
(467) Haunched Girder Depth	0			
(474) Main Structure System	N - Not	Applicable (i.e. Culvert, Beam, Slab, e	etc.)	
(475) Main Member Type	1 - Rolle	ed Steel		
(482) Protective Coating System Type	5 - Pain	t System OZEU		
(487) Structural Member Steel Type	U - Unk	nown		
(498) Protective Coating System Surface Area	0			
(499) Structural Steel Paint	2 - Field	I		
(478) Post Tensioned Main Member Code	N - Brid	ge is not Post Tensioned		
	Culver	t and Waterway		

	······································
(575) Culvert Type	N - Not a Culvert or Rigid Frame
(578) Culvert Length Inlet_to_Outlet	0
(580) Fill Depth Over Culvert	0
(651) Scenic River	N - Waterway is not classified as Scenic River
(587) Rise	
(588) Shape	
(655) Channel Protection Type	2 - Stone
(663) Stream Velocity	1.0
(672) pH	

#### **Bridge Inspection Report**

## **Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	9094	sq. ft.	8639	455	0	0
805 - Wearing Surface - Monolithic Concrete		8360	sq. ft.	7942	418	0	0
107 - Steel Open Girder/Beam	3 - Mod.	1320	ft.	0	1254	66	0
515 - Steel Protective Coating		19703	sq. ft.	0	19500	152	51
202 - Steel Column	3 - Mod.	3	each	0	3	0	0
205 - Reinforced Concrete Column	3 - Mod.	9	each	5	4	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	83	ft.	43	20	20	0
234 - Reinforced Concrete Pier Cap	3 - Mod.	124	ft.	118	6	0	0
302 - Compression Joint Seal	3 - Mod.	82	ft.	0	41	16	25
311 - Movable Bearing	3 - Mod.	24	each	0	21	3	0
313 - Fixed Bearing	3 - Mod.	6	each	0	6	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	1900	sq. ft.	703	1140	57	0
331 - Reinforced Concrete Bridge Railing	3 - Mod.	440	ft.	326	110	4	0
815 - Drainage	3 - Mod.	2	each	2	0	0	0
830 - Abutment Backwall	3 - Mod.	83	ft.	73	9	1	0

GEA-00422-0986R_	(2801744)
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ODOT District: 12 Major Maint: 01 - State Highway Agency Facility Carried: USR 422 Routine Maint: 01 - State Highway Agency Feature Inters: LA DUE RES. 0.71 MI E 44 Traffic Under: 5 - Waterway FIPS Code: 02904 - AUBURN TWP (GEA county)

Gerstenslager, Michael Inspection Date 07/09/2020

0.92 MI E SR44 Reviewer Youssef Seif

Traffic On: 1 - Highway

07/01/1960 Date Built: 01/01/1994 Rehab Date: Insp. 01 - State Highway Agency Resp A: Insp Resp B:

#### Inspector

#### Inspector Comments - Deck and Approach

Location: GEA

#### Deck

#### Floor/Slab (SF)

A few transverse cracks. Areas of map cracks & minor mottling.

#### **Bridge Wearing Surface (SF)**

A few cracks.

#### **Bridge Railing (LF)**

Vertical cracks. Collision spall & delams to left rail. Other shallow spalls.

#### **Deck Drainage (EA)**

#### **Expansion Joint (LF)**

Approx 11' of rear seal and 14' of forward seal missing (piles of debris on abutment seats). Forward armor is thru cracked in lane #2 & broken / displaced at center line with 6" missing. Gouges to forward armor. Deck side is 3/4" lower than slab side at rear joint. Minor spalls to exit headers.

#### Approach

#### **Approach Wearing Surface (EA)**

Sealed cracks along both slabs.

#### Approach Slab (SF)

Bounce onto bridge. Full width cracks at forward. 10 sf of concrete break up in forward lane #2.

#### Approach Embankment (EA)

Minor erosion at forward-right guardrail post #1.

#### **Inspector Comments - General Appraisal**

#### Superstructure

#### **Beams/Girders (LF)**

Surface rust, mainly along lower flanges. Rusting section loss at beam ends & exteriors of fascias (left fascia is worse).

#### **Diaphragm/X-Frames (EA)**

Surface rust. Endframe rusting section loss. Cracks & rusting thru holes to endframes at both abutments (beams 1, 4 & 5 at rear and beams 1 & 5 at forward).

#### **Bearing Devices (EA)**

Surface rust. Rusting section loss to left fascia bearings at piers.

#### Protective Coating System (LF)

Rusting with areas of failed pcs. Peeling & faded paint.

#### Fatigue (LF)

Welded moment plates at piers.

#### Substructure

#### Abutment Walls (LF)

Leaching cracks. Rust stains. 4 sf delam below beam 5 at rear. Spalls with exposed rebar in rear bay 1, forward bays 1 & 2 and at forward-left corner.

#### Pier Caps (LF)

Cracks.

#### Pier Columns/Bents (EA)

Rusting section loss of steel & scaling of concrete at & below waterline. Insufficient concrete cover exposes one piece of horizontal rebar on P2C1, 2' above channel bottom (dive report).

#### **Backwalls (LF)**

Cracks. Rust stains.

#### Substructure Scour (EA)

Note: dive inspection in 2019.

#### **Slope Protection (EA)**

Minor abutment footing exposure at rear-right.

#### <u>Culvert</u>

#### Inspector Comments - Waterway

#### Waterway Adequacy

#### **Channel Hydraulic Opening (EA)**

Water depth at piers >12'. reference point - bottom of lower flange to water surface at p1 = 5' 9''.

#### <u>Channel</u>

Scour Critical

#### GEA-00422-0986R\_(2801744)

Traffic On: 1 - Highway

Traffic Under: 5 - Waterway

Date Built: Rehab Date:

> Insp. Resp A: 01 - State Highway Agency Insp Resp B:

07/01/1960

01/01/1994

Inspector Gerstenslager,Michael

Inspection Date 07/09/2020

# **Under Records**

ODOT District: 12 01 - State Highway Agency

Major Maint:

FIPS Code:

Routine Maint: 01 - State Highway Agency Feature Inters:

02904 - AUBURN TWP (GEA county)

Location: GEA

Facility Carried: USR 422

LA DUE RES. 0.71 MI E 44

Reviewer Youssef Seif

0.92 MI E SR44

Inspector: Michael Gerstenslager	Structure Number: 2801744
Inspection Date: 07/09/2020	Facility Carried: USR 422
Bridge Inspection Report	
Channel Measurement	
Date of Channel Measurements:	Number of Fixed Objects in Channel:
Distance Measured From:	Water Level:
Depth Measured From:	High Water Mark:
Number of Measurement Points Taken:	Measurement Type:

Inspector: Michael Gerstenslager Inspection Date: 07/09/2020

#### **Bridge Inspection Report**

#### **Pictures**

Inspector: Michael Gerstenslager Inspection Date: 07/09/2020

#### **Bridge Inspection Report**

#### Sketches

## GEA-00422-0986R\_(2801744)

ODOT District:	12	GEA-00422-0986R_(2801744)						
Major Maint:	01 - State Highway Agency	Facility Carried:	USR 422	Traffic On: 1 - Highway				
Routine Maint:	01 - State Highway Agency	Feature Inters:	LA DUE RES. 0.71 MI E 44	Traffic Under: 5 - Waterway				
FIPS Code:	02904 - AUBURN TWP (GEA cou	unty)	Location: GEA	0.92 MI E SR44				
	Inspector G	erstenslager,Michael	Inspection Date 07/09/2	Reviewer Youssef Seif				

Date Built: 07/01/1960 Rehab Date: 01/01/1994 Insp. 01 - State Highway Agency Resp A: Insp Resp B:

#### **Summary Recommendations**

ODOT District: 12

#### GEA-00422-0986R\_(2801744)

Major Maint: 01 - State Highway Agency

Routine Maint: 01 - State Highway Agency FIPS Code: 02904 - AUBURN TWP (GEA county)

Feature Inters: LA DUE RES. 0.71 MI E 44

Facility Carried: USR 422

Location: GEA

Traffic Under: 5 - Waterway

Traffic On: 1 - Highway

0.92 MI E SR44

Date Built: 07/01/1960 01/01/1994 Rehab Date: Insp. Resp1 - State Highway Agency

Inspector

Gerstenslager, Michael Inspection Date 07/09/2020

## **Governing Members**

Reviewer Youssef Seif

A: Insp Resp B:

ODOT District:	12	GEA-00422-0986R_(2801744)						
Major Maint:	01 - State Highway Agency	Facility Carried:	USR 422		Traffic On:	1 - Highwa	/	
Routine Maint:	01 - State Highway Agency	Feature Inters:	LA DUE RES. 0.71	MI E 44	Traffic Under:	5 - Waterw	ау	
FIPS Code:	02904 - AUBURN TWP (GEA county)		Location: GEA		0.92 MI	E SR44		
	Inspector	Gerstenslager,Michael	Inspection Date	07/09/2020	I	Reviewer Y	oussef Seif	

Date Built: 07/01/1960 Rehab Date: 01/01/1994 Insp. 01 - State Highway Agency Resp A: Insp Resp B:

#### **Complex Bridge Superstructure Comments**

## Historic Bridge Data

			Status			
(8) Structure File Number (SFN)	2801744			(37) Historical Significance Code	5 - Not eligible	
(826) NR Recommendation				(837) Historical District		
(840) Historical National Register Listed				(834) Reviewed By		
(850) In Management Plan (2009)	N- No					
			Identificatio	n		]
(825) Historical Bridge Name				(7) Facility Carried	USR 422	
(22) Owner	01 - State Hig Agency	ghway		(6) Feature Intersected	LA DUE RES. 0.71 MI E 44	
(4) Place Code (FIPS)	02904 - AUBI TWP (GEA co			(5) Inventory Route		
(3) County (Parish) Code	28 - Geauga			(B) Route Signing Prefix	2 - U.S. NUMBERED HIGHWAY	
(2) Highway Agency District	12			(D) Route Number	00422	
(9) Location	0.92 MI E SR	.44		(16) Latitude at Rear Abutment	41.38363	degre
(883) UTM				(17) Longitude at Rear Abutment	-81.20328	degre
		Str	uctural Infor	mation		
(43) Main Structure Type	4 - Steel continuo us	02 - Stringer/ Multi- beam or Girder	N- Not Applicabl e	(827) Historical Year Built	1960	
(828) Historical Bridge Type	330 - CONTII	NUOUS		(836) Historical Data Source	014 - ODOT	
(49) Structure Length	220.0	ft		(831) Historical Builder	192	
(45) No. of Main Spans	4			(842) Historical Bridge Designer	126	
(407) Bridge Railing Type	C - 32" Defleo Parapet (New Shape)			(106) Year Reconstructed	1994	
	• /			(829) Previous Inventory Date		
		Clas	sification of	Service		7
(26) Functional Class of Inventory Route	02 - Rura Arterial -	al - Principal Other		(29) Average Daily Traffic (ADT)	6832	
(104) Highway System of the Inventory Route	1 - Struc on NHS	ture/Route is		(30) Year of ADT	2015	
(71) Waterway Adequacy	6 - Occa Overtopp	oing of		(109.01) Avg. Daily Truck Traffic (ADTT)	683	
	Approac	nes		(102) Direction of Traffic	1-way traffic	

(843) Historical Setting/Context

(844) Historical Physical Description

No photos available.

(845) Historical Integrity

(846) Historical Significant Description

The bridge is an excluded bridge type that has been recommended not eligible based on the context of its type/design and date of construction.

(847) Historical Bridge Remarks

(860) Justification

		Capacity			
(51) Bridge Rdwy Width Curb-Curb	38.0	ft	(66) Inventory Rating Load	1.4	
(873) Bridge Rdwy Width Required		ft	(64) Operating Rating Load	1.8	
(872) Bridge Rdwy Width Adequare	Υ		(878) Inventory Rating Load - Required		
(32) Approach Rdway Width	38.0	ft	(877) Inventory Rating Load - Adequate	Y	
(841) Bridge Wider	Ν		(28) Lanes On	02	
(52) Deck Width Out-Out	41.3	ft	(880) Lanes On - Required		ft
(50A) Curb/Sidewalk Left Side - Width	0	ft	(879) Lanes On - Adequate	Y- Yes	
(50B) Curb/Sidewalk Right Side - Width	0	ft	(876) Geometry Adequate		
(10) Minimum Vertical Clearance On, Cardinal	99	ft	(871) Alignment/Sight Distance Adeqaute		

(874) Conformance Comments

(882) Structural Deficiency Summary

(875) Crash Data

#### Historic Bridge Management Plan

(853) Historical Management Summary

**Preservation Potential** 

(861) Prudent and Feasible to Leave Bridge in Place

(862) Preservation Potential

(863) Preservation Summary

(881) Rehab Without Adverse Effect

(865) Historic Bypass Information

(866) Other Preservation Options

(867) Preservation Recommendation

(868) Comment Recommendation

(869) Comment Date

(870) Plan Comment