

Inspector: Gerstenslager, Michael
 Inspection Date: 08/04/2022

Structure Number: 2800667
 Facility Carried: SR 87

Bridge Inspection Report

Ohio Bridge Inspection Summary Report

GEA-00087-0318 (2800667)

2: District 69232 - RUSSELL TWP (GEA county)
 District 12

5A: Inventory Route 1 00087

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 DISTRICT 12

7: Facility On SR 87
 6: Feature Ints SILVER CRK 0.45 MI E 306
 9: Location .5 MI E SR306
 Lat, Lon 41.462692 , -81.331189

Condition	Structure Type
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58: Deck **4 - Poor Condition**
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)
 58.02 Joint N- Not Applicable
59: Superstructure **5 - Fair Condition**
 59.01 Paint & PCS N - Not Applicable
60: Substructure **5 - Fair Condition**
61: Channel **8**
61.01 Scour **7 - Good**
62: Culverts **N - Not Applicable**

43: Bridge Type 2 - Concrete continuous
 01 - Slab
 N- Not Applicable
 45: Spans Main / Approach 3 / 0
 107: Deck Type 1 - Concrete Cast-in-Place
 408: Composite Deck N - Non-composite Construction
 414A Joint Type 1 N - None
 414B: Joint Type 2 N - None
 108A: Wearing Surface 2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
 2- MicroSilica

67.01 GA **5**

Appraisal	Inspection
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Sufficiency Rating 77.3 SD/FO 1 - SD
 36: Rail, Tr, Gd, Term Std 1 1 1 1
 72: Approach Alignment 8 - Equal to present desirable criteria
 113: Scour Critical 8 - Stable for scour conditions
 71: Waterway Adequacy 8 - Bridge Above Approaches

422: WS Date 01/01/1999
 423: WS Thick (in) 1.3
 482: Protective Coating N - None or Not Applicable
 483: PCS Date
 453: Bearing Type 1 N - None
 455: Bearing Type 2 N - None
 528: Foundn: Abut Fwd 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
 533: Foundn: Abut Rear 2 - Cast-in-Place reinforced Concrete Piles (Other diameter)
 536: Foundn: Pier 1 2 - Cast-in-Place Reinforced Concrete Piles (Other diameter)
 539: Foundn: Pier 2 0 - Other

Geometric	Inspection
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48: Max Span Length (ft) 38.0
 49: Structure Length (ft) 106.0
 52: Deck Width, Out-To-Out (ft) 37.8
 424: Deck Area (sf) 4006.8
 32: Appr Roadway Width (ft) 37.0
 51: Road Width, Curb-Curb (ft) 37.8
 50A: Curb/SW Width: Left (ft) 0
 50A: Curb/SW Width: Right (ft) 0
 34: Skew (deg) 0
 33: Bridge Median 0 - No median
 54B: Min Vert Underclearance (ft) 0
 336A: Min Vert Clrnce IR Cardinal (ft) 99
 336B: Min V Clr IR Non-Cardinal (ft) 0
 578: Culvert Length (ft) 0

Age and Service	Inspection
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27: Year Built/ 106 Rehab 1950 / 0000
 42A: Service On 1 - Highway
 42B: Service Under 5 - Waterway
 28A: Lanes on 02
 28B: Lanes Under 00
 19: Bypass Length 2
 29: ADT 7283
 109: % Trucks (%) 4

Load Posting	Inspection
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41: Op/Post/Closed A - Open
 70: Posting 5 - Equal to or above legal loads
 70.01: Date
 70.02: Sign Type
 734: Percent Legal (%) 125

Inspections		
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		Months	
90: Routine Insp.		12	08/04/2022
92A: FCM Insp.	N	0	
92B: Dive Insp.	N	0	
92C: Special Insp.	N	0	
92D: UBIT Insp.	N	0	
92E: Drone Insp.	N	0	

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704: Analysis Date 04/18/2018 Inspector Gerstenslager,Michael
63: Analysis Method 6 - Load Factor (LF) rating reported by
rating factor (RF) method using MS18
loading.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
38-Reinforced Concrete Slab	3 - Mod.	4010	sq. ft.	2122	850	750	288
<p>CS2 - Leaching cracks with efflorescence. Concrete patches with long longitudinal leaching cracks near center line . Other leaching cracks (some with stalactites). Rust stains.</p> <p>CS3 - Compression spalls at forward corners. Approximately 60 SF of spalls with exposed rebar and at least 250 SF of delams. Spalls exposing rail anchor bolts. Mottled area near rear abutment with heavy rust staining.</p> <p>CS 4: Left and right edges of floor has deteriorated in spans 2&3 with areas of 360° hanging rebar (area is nearly entire length of spans 2& 3 & as wide as 46"). Many consecutively exposed longitudinal and transverse rebar with section loss .</p>							
805-Wearing Surface - Monolithic Concrete		4010	sq. ft.	0	3250	750	10
<p>CS2 - Map cracking throughout.</p> <p>CS3 - Spalling of overlay over drip strip along both edges (approx.100', left edge is worse with exposed rebar). Delaminated area Westbound near forward end. Areas of heavy pattern map cracking. Some wide cracks.</p> <p>CS 4: 10 sf of asphalt patches in Eastbound lane near forward end.</p>							
215-Reinforced Concrete Abutment	3 - Mod.	76	ft.	0	21	55	0
<p>CS2 - Cracks, leaching areas with efflorescence.</p> <p>CS3 - Spalls and delams. Deep spall along forward-left with exposed rebar.</p>							
227-Reinforced Concrete Pile	3 - Mod.	18	each	14	4	0	0
<p>Concrete encasement of most pier columns exposed (as much as 16") at channel bed. Protective coating missing in areas.</p> <p>CS2 - Areas of rust to steel columns with shallow rust section loss to columns 1 and 9 at both piers.</p>							
234-Reinforced Concrete Pier Cap	3 - Mod.	76	ft.	51	7	18	0
<p>CS2 - Leaching cracks.</p> <p>CS3 - Spalls with exposed rebar on both sides of P1 cap. Spalls at right side of P2 cap reveal rusting section loss of bottom rebars (1 rust severed) & stirrups (50" of 360° exposure of stirrup). Other spalls and delams.</p>							
330-Metal Bridge Railing	3 - Mod.	212	ft.	0	10	202	0
<p>CS2 - Minor damage to right rail near mid-point.</p> <p>CS3 - Delams and deteriorated concrete around anchor bolts. Cracks, spalls & rust stains in concrete at anchor bolts.</p>							
815-Drainage	3 - Mod.	2	each	0	1	1	0
<p>CS2 - Areas of damaged drip strips.</p> <p>CS3 - Left edge missing 16' of drip strip.</p>							
840-Approach Slab: Termination or Joint	3 - Mod.	76	ft.	0	0	76	0
<p>CS3 - Asphalt patches and areas of breaking up asphalt to both.</p>							

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ODOT District: District 12

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Date Built: 07/01/1950

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: SILVER CRK 0.45 MI E 306

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 69232 - RUSSELL TWP (GEA county)

Location: DISTRICT 12

.5 MI E SR306

Resp A:

Insp

Resp B:

Inspector

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Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Note: Bridge has no approach slabs.

Approach Wearing Surface

Cracks, asphalt patches and asphalt break up, mainly along deck ends.

Approach Guardrail

Minor dings and dents to forward left.

Inspector Comments - General Appraisal

Superstructure

Utilities

NOTE: pvc conduit is attached along the left rail in span 3 & is attached to P2C1. Conduit is disconnected with visible wires inside (not a utility).

Substructure

Wingwalls

Spalls.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

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Channel

Scour Critical

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Pictures