

Inspector: Gerstenslager,Michael  
 Inspection Date: 08/12/2022

Structure Number: 2801264  
 Facility Carried: SR 306

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**GEA-00306-0845 (2801264)**

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

5A: Inventory Route 1 00306

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 306  
 6: Feature Ints SILVER CRK 0.48 MI. N 87  
 9: Location 2550 FT N KINSMAN ROAD  
 Lat, Lon 41.469606 , -81.340006

Condition	Structure Type
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**58: Deck** **6 - Satisfactory Condition**  
 58.01 Wearing Surface 5 - Fair (10-15%, 2% asphalt patch)  
 58.02 Joint 4- Poor (heavy leaking, offset)  
**59: Superstructure** **6 - Satisfactory Condition**  
 59.01 Paint & PCS 7 - Good (1-5% corr.)  
**60: Substructure** **6 - Satisfactory Condition**  
**61: Channel** **7**  
**61.01 Scour** **7 - Good**  
**62: Culverts** **N - Not Applicable**  
**67.01 GA** **6**

43: Bridge Type 5 - Prestressed concrete  
 05 - Box Beam or Girders - Multiple  
 N- Not Applicable  
 45: Spans Main / Approach 1 / 0  
 107: Deck Type 1 - Concrete Cast-in-Place  
 408: Composite Deck U - Unknown  
 414A Joint Type 1 3 - Compression Seal  
 414B: Joint Type 2 N - None  
 108A: Wearing Surface 6 - Bituminous  
 N- Not Applicable  
 422: WS Date 01/01/2002  
 423: WS Thick (in) 3.1  
 482: Protective Coating B - Epoxy - Urethane sealers  
 483: PCS Date 01/01/1987  
 453: Bearing Type 1 4 - Elastomeric (Plain)  
 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 N - None (Such as most Culverts)  
 539: Foundn: Pier 2 N - None (Such as most Culverts)

Appraisal	Geometric
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Sufficiency Rating 97.0 SD/FO 0 - ND  
 36: Rail, Tr, Gd, Term Std 1 1 1 1  
 72: Approach Alignment 8 - Equal to present desirable criteria  
 113: Scour Critical 5 - Scour within limits of footing or piles  
 71: Waterway Adequacy 8 - Bridge Above Approaches

48: Max Span Length (ft) 47.0  
 49: Structure Length (ft) 51.0  
 52: Deck Width, Out-To-Out (ft) 36.0  
 424: Deck Area (sf) 1836  
 32: Appr Roadway Width (ft) 38.0  
 51: Road Width, Curb-Curb (ft) 36.0  
 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	Inspections
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27: Year Built/ 106 Rehab 1940 / 1990  
 42A: Service On 1 - Highway  
 42B: Service Under 5 - Waterway  
 28A: Lanes on 02  
 28B: Lanes Under 00  
 19: Bypass Length 2  
 29: ADT 7324  
 109: % Trucks (%) 5

Load Posting	Inspections
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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 (%) 150  
 704: Analysis Date 07/01/1990  
 63: Analysis Method 6 - Load Factor (LF) rating reported by

	Months	
90: Routine Insp.	12	08/12/2022
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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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
<b>15-Prestressed Concrete Top Flange</b>	3 - Mod.	1836	sq. ft.	1788	48	0	0
See EL104 comments.							
<b>510-Wearing Surfaces</b>		1836	sq. ft.	0	1726	0	110
CS2 - Many longitudinal cracks, rutting. W/S is over 5 years old. CS4 - Asphalt patches, mainly along exjts, along with small potholes throughout. Spall with exposed rebar in Southbound lane at rear.							
<b>104-Prestressed Concrete Closed Web/Box Girder</b>	3 - Mod.	459	ft.	423	20	16	0
CS2 - A few areas of leakage between box beams. Water infiltration between beams at rear and forward abutments. Joint 4 leaks most length. Efflorescence along some joints. CS3 - Beam one - spall with strand exposure at second guardrail post from forward abutment and delam with rust stains along joint 1 at mid span, beam two - 2 SF spall with strand exposure along joint 1 at mid span and delam with rust stains along joint 2 at mid span, beam 3 - 2 sf spall along join 2, beam four - 6 SF of spalls total with strand exposure along joints 3 & 4 at mid span. Minor delams to other areas.							
<b>521-Concrete Protective Coating</b>		408	sq. ft.	408	0	0	0
Note: 2' width along bottom & outside of fascia beams sealed.							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	72	ft.	37	26	9	0
Water leaks near corners of beam 1 at both abutments. Concrete patches. Rust stains and leaching efflorescence. CS2 - Full height vertical cracks in both abutments. Other cracks, some leaching. CS3 - Spall with exposed rebar to rear below box beam 1. Spall with exposed rebar to forward below box beam 1 (runs into forward-left wingwall). Some delams.							
<b>302-Compression Joint Seal</b>	3 - Mod.	72	ft.	0	28	28	16
CS2 - Shallow rusting section loss, mainly in berms. Small popouts to headers. CS3 - Many gouges to armor. Cracks, spalls & asphalt patches to exjt headers. CS4 - Seal torn in both joints and leaks below. Rear deck armor is cracked at centerline. Forward has small area at centerline where deck armor is cut out.							
<b>310-Elastomeric Bearing</b>	3 - Mod.	18	each	18	0	0	0
CS2 -							
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	1080	sq. ft.	955	125	0	0
Paved over, bounce onto bridge in both directions. CS2 - Cracks, mainly transverse.							
<b>330-Metal Bridge Railing</b>	3 - Mod.	102	ft.	10	92	0	0
CS2 - Galvanized coating losing effectiveness. Minor dents.							

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	<b>Environment</b>	<b>Total Quantity</b>	<b>Units</b>	<b>Condition State 1</b>	<b>Condition State 2</b>	<b>Condition State 3</b>	<b>Condition State 4</b>
<b>815-Drainage</b>	3 - Mod.	2	each	1	1	0	0
CS2 - Debris built up at rear left berm.							

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ODOT District: District 12

**GEA-00306-0845 (2801264)**

Date Built: 07/01/1940  
Rehab Date: 01/01/1990

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Routine Maint: 01 - State Highway Agency

Feature Inters: SILVER CRK 0.48 MI. N 87

Traffic Under: 5 - Waterway

FIPS Code: 69232 - RUSSELL TWP (GEA county)

Location: DISTRICT 12

2550 FT N KINSMAN ROAD

Inspector

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Inspection Date 08/12/2022

Reviewer Seif,Youssef

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

**Inspector Comments - Deck and Approach**

**Deck**

**Approach**

**Approach Wearing Surface**

A few cracks.

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Wingwalls**

Cracks, concrete patches. Spalls that go into both left abutments. Few other small spalls and delams.

**Substructure Scour**

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Channel Alignment**

Sediment build up along rear abutment. Creek flows along forward abutment.

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**Channel Protection**

Some displaced rip-rap at forward-right wingwall.

**Scour Critical**

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**Pictures**