

# Ohio Bridge Inspection Summary Report

**RIC-00030-1642 (7001517)**

2: District 03 50092 - MIFFLIN TWP (RIC county)  
 21: Major Maint A/B 01 - State Highway Agency /  
 225 Routine Main A/B 03 - Town or Township Highway /  
 Agency  
 221 Inspection A/B 01 - State Highway Agency /  
 220: Inv. Location RIC

5A: Inventory Route 1 C0289  
 7: Facility On T-289 REED ROAD  
 6: Feature Ints OVER RIC-030 -1638  
 9: Location 2.34 MILES EAST OF US 42

Condition	
<b>58: Deck</b>	<b>7 - Good Condition</b>
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	6- Satisfactory (isolated leaking)
<b>59: Superstructure</b>	<b>7 - Good Condition</b>
59.01 Paint & PCS	7 - Good (1-5% corr.)
<b>60: Substructure</b>	<b>7 - Good Condition</b>
<b>61: Channel</b>	<b>N</b>
61.01 Scour	<b>N - Not Applicable</b>
<b>62: Culverts</b>	<b>N - Not Applicable</b>

Structure Type	
43: Bridge Type	4 - Steel continuous 02 - Stringer/Multi-beam or Girder N- Not Applicable
45: Spans Main / Approach	4 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	N - Non-composite Construction
414A Joint Type 1	2 - Sliding Metal Plate Angle
414B: Joint Type 2	N - None
108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck) N- Not Applicable

**67.01 GA 7**

Appraisal	
Sufficiency Rating	96.0 SD/FO 2 - FO
36: Rail, Tr, Gd, Term Std	1 0 1 1
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	N - Not over waterway
71: Waterway Adequacy	N - Not Applicable

422: WS Date	01/01/1977
423: WS Thick (in)	1.2
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	08/27/1996
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)
533: Foundn: Abut Rear	1 - Steel H Piles (Other Size)
536: Foundn: Pier 1	1 - Steel H Piles (Other size)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	89.0
49: Structure Length (ft)	290.0
52: Deck Width, Out-To-Out (ft)	46.0
424: Deck Area (sf)	13340
32: Appr Roadway Width (ft)	44.0
51: Road Width, Curb-Curb (ft)	42.5
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)	14.5
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	
27: Year Built/ 106 Rehab	1977 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	06
19: Bypass Length	0
29: ADT	2227
109: % Trucks (%)	5

Load Posting	
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 (%)	110
704: Analysis Date	02/25/2019
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspections		
	Months	
90: Routine Insp.	12	03/23/2021
92A: FCM Insp.	N	0
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	
92E: Drone Insp.		
Inspector	Harding, Rich	

Inspector: Rich Harding  
 Inspection Date: 03/23/2021

Structure Number: 7001517  
 Facility Carried: T-289 REED ROAD

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12 - Reinforced Concrete Deck</b>	3 - Mod.	13340	sq. ft.	12931	328	81	0
	<p>CS2-2021 Scattered trans. hairlines &amp; cracks, some w/ effl. &amp; minor to moderate sat. areas areas starting to dry out.</p> <p>CS3-2021 Span #3 along top flange of lt. fascia beam (full length): Spalled area (some deep) w/ areas of exposed resteel along inside edge (Sealed w/ repair Proj.</p>						
805 - Wearing Surface - Monolithic Concrete		12325	sq. ft.	12100	225	0	0
	<p>CS2-2021 Scattered trans. cracks &amp; hairlines.; both fwd. &amp; rear @ deck ends along expan. joints: small delam.</p>						
<b>107 - Steel Open Girder/Beam</b>	3 - Mod.	1740	ft.	1720	20	0	0
	<p>CS2-2021 2020, Beam 1,2,3 w.b. lane damage from overheight load. 2019 Lt. fascia beam over WB driving lane damaged from overheight load - Repaired w/ Proj.# 7036(19) - Several scrapes &amp; a few gouges along bottom flange of lt. fascia beam over wb driving plus a few scrapes on bottom flange of beam #2 - 2014 Repair Proj.#8014(14) for span #3 - Previously Lt. fascia beam w/ lt. sweep in alignment over both WB driving, passing, &amp; ramp lanes w/ slight twist in bottom flange over driving lane (02 -'14 collision damage) - Previously span # 3, Lt. fascia beam over driving lane: bottom flange bent upward w/ slight sweep in alignment from collision damage plus multiple scrapes &amp; scratches near same area &amp; on next beam plus scraped area over passing lane; beams w/ small areas of minor pitting;</p>						
515 - Steel Protective Coating		22416	sq. ft.	20806	1288	322	0
	<p>CS2-2021 Span #3, Lt. fascia beam: Bottom flange, portions of web, &amp; x-frames re-painted w/ repair Proj.#8014(14) &amp; Proj.#7036(19).</p> <p>CS3-2021 New scuff &amp; scrape marks in new paint; rust along flanges, bolted splice plate connections, &amp; bearing</p>						
<b>205 - Reinforced Concrete Column</b>	3 - Mod.	9	each	9	0	0	0
<b>215 - Reinforced Concrete Abutment</b>	3 - Mod.	92	ft.	82	10	0	0
	<p>CS2-2021 A few vertical hairlines / cracks; wet areas &amp; rust staining - leakage @ expan. joint</p>						
<b>234 - Reinforced Concrete Pier Cap</b>	3 - Mod.	138	ft.	132	6	0	0
	<p>CS2-2021 Pier #1: Small delam. area on bottom of cap; a few vertical hairlines &amp; cracks.</p>						
<b>305 - Assembly Joint without Seal</b>	3 - Mod.	92	ft.	47	45	0	0
	<p>CS2-2021 Both fwd. &amp; rear: slight offset plus areas of rust, pitting, &amp; minor section loss; both: 2011 rubberized joint sealer applied to open joint - uneven / poor application w/ voids &amp; gaps in material along joints w/ leakage - fwd. w/ section of material missing.</p>						

Inspector: Rich Harding  
 Inspection Date: 03/23/2021

Structure Number: 7001517  
 Facility Carried: T-289 REED ROAD

**Bridge Inspection Report**

**Element Inspection**

<b>311 - Movable Bearing</b>	3 - Mod.	25	each	17	8	0	0
CS2-2021 Areas of pack rust @ abut. rockers; Pier #2, lt. bolster (fixed) bearing for lt. fascia beam: Previously sole plate w/ broken weld @ side cover plate							
<b>313 - Fixed Bearing</b>	3 - Mod.	5	each	5	0	0	0
<b>321 - Reinforced Concrete Approach Slab</b>	3 - Mod.	2200	sq. ft.	2150	50	0	0
CS2-2021 Rear: Newer asphalt resurfacing - Fwd.: Some scattered cracks.							
<b>331 - Reinforced Concrete Bridge Railing</b>	3 - Mod.	580	ft.	480	100	0	0
CS2-2021 Both epoxy sealed w/ proj.; scattered hairlines, most along toe of parapet; fwd.: one spalled area in top of parapet.							
<b>815 - Drainage</b>	3 - Mod.	12	each	12	0	0	0
<b>830 - Abutment Backwall</b>	3 - Mod.	92	ft.	63	20	9	0
CS2-2021 Both fwd.& rear tops @ w.s. w/ a couple small areas cracked & breaking up; Both tops @ w.s.: previous concrete repairs w/ Proj.  CS3-2021 Areas w/ delam., spalls, & rust staining on vertical face;							

ODOT District: 03

## RIC-00030-1642\_(7001517)

Date Built: 07/01/1977

Major Maint: 01 - State Highway Agency

Facility Carried: T-289 REED ROAD

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 03 - Town or Township Highway

Feature Inters: OVER RIC-030 -1638

Traffic Under: 1 - Highway, with or w/out pedestrian

Insp. 01 - State Highway Agency

FIPS Code: 50092 - MIFFLIN TWP (RIC county)

Location: RIC

2.34 MILES EAST OF US 42

Resp A:

Insp

Resp B:

Inspector

Harding, Rich

Inspection Date

03/23/2021

Reviewer Kapustar, Kent

### Inspector Comments - Deck and Approach

#### Deck

##### Floor/Slab (SF)

##### Edge of Floor/Slab (LF)

Both fascia & bottom edges epoxy sealed w/ 2011 proj..

##### Bridge Wearing Surface (SF)

##### Bridge Railing (LF)

Both epoxy sealed w/ proj.; scattered hairlines, most along toe of parapet; fwd.: one spalled area in top of parapet.

##### Deck Drainage (EA)

All scuppers clean.

##### Expansion Joint (LF)

Both fwd.& rear: slight offset plus areas of rust, pitting, & minor section loss; both: 2011 rubberized joint sealer applied to open joint - uneven / poor application w/ voids & gaps in material along joints w/ leakage - fwd. w/ section of material missing.

#### Approach

##### Approach Wearing Surface (EA)

2020 Rear w/ newer asphalt resurfacing - Fwd. w/ some scattered cracks; 2018 New asphalt resurfacing; 2011 partial new asphalt resurfacing w/ proj.- both fwd.& rear w/ a few scattered cracks; both fwd.& rear: approx. 6' wide concrete shoulders added w/ proj.#514(10).

##### Approach Slab (SF)

2020 Rear: Newer asphalt resurfacing - Fwd.: Some scattered cracks; 2018 New asphalt resurfacing; both: 2011 new concrete repair @ jct. w/ top of backwall plus new asphalt overlay - a few scattered cracks.

##### Approach Guardrail (EA)

2020 Fwd. rt. & lt. plus rear rt. w/ collision damage & a few rotten & broken posts.

### Inspector Comments - General Appraisal

#### Superstructure

##### Superstructure Alignment (EA)

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

2020,2019 Lt. fascia beam over WB driving lane damaged from overheight load - Repaired w/ Proj.# 7036(19) - Several scrapes & a few gouges along bottom flange of lt. fascia beam over wb driving plus a few scrapes on bottom flange of beam #2 - 2014 Repair Proj.#8014(14) for span #3 - Previously lt. fascia beam w/ lt. sweep in alignment over both WB driving, passing,& ramp lanes w/ slight twist in bottom flange over driving lane (02-'14 collision damage) - Previously span # 3, Lt. fascia beam over driving lane: bottom flange bent upward w/ slight sweep in alignment from collision damage plus multiple scrapes & scratches near same area & on next beam plus scraped area over passing lane; beams w/ small areas of minor pitting; 2008 nbis qar decal #03-0014 attached to web of inside face of rt. fascia beam @ fwd. end.

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

2019 X-frames w/ broken welds @ impact area of bridge hit - Repaired w/ Proj.#7036(19); Span #3, bay #1 along lt. fascia beam: Previously all x-frame welds broken plus missing bottom angle over wb driving lane - repaired w/ Proj.#8014(14).

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

Areas of pack rust @ abut. rockers; Pier #2, lt. bolster (fixed) bearing for lt. fascia beam: Previously sole plate w/ broken weld @ side cover plate - repaired w/ Proj.#8014(14).

### **Protective Coating System (LF)**

Span #3, Lt. fascia beam: Bottom flange, portions of web, & x-frames re-painted w/ repair Proj.#8014 (14) & Proj.#7036(19) - 2020 New scuff & scrape marks in new paint; rust along flanges, bolted splice plate connections, & bearings.

## **Substructure**

### **Abutment Walls (LF)**

A few vertical hairlines / cracks; wet areas & rust staining - leakage @ expan. joint.

### **Pier Caps (LF)**

Pier #1: Small delam. area on bottom of cap; a few vertical hairlines & cracks.

### **Pier Columns/Bents (EA)**

Pier #1: lt. column @ splash line w/ previous vertical cracks, delam. areas, & sat.- concrete repairs w/ 2011 proj..

### **Backwalls (LF)**

Areas w/ delam., spalls, & rust staining on vertical face; Both fwd.& rear tops @ w.s. w/ a couple small areas cracked & breaking up; Both tops @ w.s.: previous concrete repairs w/ Proj..

## **Culvert**

## **Inspector Comments - Waterway**

### **Waterway Adequacy**

**Channel**

**Scour Critical**

**Inspector:** Rich Harding

**Structure Number:** 7001517

**Inspection Date:** 03/23/2021

**Facility Carried:** T-289 REED ROAD

**Bridge Inspection Report**

**Pictures**