Inspector: Harding, Rich **Structure Number:** 7001517 05/04/2023 T-289 REED ROAD Inspection Date: **Facility Carried:**

Ohio Bridge Inspection Summary Report

RIC-00030-1642 (7001517)

2: DistrictDistr 50092 - I ict 03	MIFFLIN TWP (RIC county)		5A: Inventory Ro	oute 1	00289
21: Major Maint A/B	01 - State Highway Agency	/	7: Facility On	T-289 REED RO	AD
225 Routine Main A/B	03 - Town or Township Highway Agency	/	6: Feature Ints	OVER RIC-030 -	
221 Inspection A/B	01 - State Highway Agency	/	9: Location	2.34 MILES EAS	T OF US 42
220: Inv. Location DIS	STRICT 03		Lat, Lon	40.778542	,-82.426928
ZZO: IIIV: Location Bio				+0.7700+Z	, 02.420020

	gency	6: Feature Ints OVER RIC	c-030 -1638				
	1 - State Highway Agency /	9: Location 2.34 MILE	S EAST OF US 42				
220: Inv. Location DISTR	RICT 03	Lat, Lon 40.778542	,-82.426928				
	Condition	Str	Structure Type				
58: Deck	7 - Good Condition	43: Bridge Type 4 - St	eel continuous				
58.01 Wearing Surface	7 - Good (1% distress)	02 - \$	Stringer/Multi-beam or Girder				
58.02 Joint	6- Satisfactory (isolated leaking)	N- No	ot Applicable				
59: Superstructure 7 - Good Condition		45: Spans Main / Approa	45: Spans Main / Approach 4 / 0				
59.01 Paint & PCS 7 - Good (1-5% corr.)		107: Deck Type	1 - Concrete Cast-in-Place				
60: Substructure	,		N - Non-composite Construction				
61: Channel N		414A Joint Type 1	2 - Sliding Metal Plate Angle				
61.01 Scour N - Not Applicable		414B: Joint Type 2	N - None				
62: Culverts	N - Not Applicable	108A: Wearing Surface	 Monolithic Concrete (concurrently placed with structura deck) 				
67.01 GA	7		N- Not Applicable				
	Appraisal	422: WS Date	01/01/1977				
Sufficiency Rating	96.0 SD/FO 2 - FO	423: WS Thick (in)	1.2				
36: Rail, Tr, Gd, Term Std	1 0 1 1	482: Protective Coating	5 - Paint System OZEU				
72: Approach Alignment	8 - Equal to present desirable criteria	483: PCS Date	08/27/1996				
113: Scour Critical	N - Not over waterway	453: Bearing Type 1	2 - Rockers & Bolsters				
71: Waterway Adequacy	N - Not Applicable	455: Bearing Type 2	N - None				
, , ,	Geometric	528: Foundn: Abut Fwd	1 - Steel H Piles (Other size)				
10.11 0 1 (1)		533: Foundn: Abut Rear					
48: Max Span Length (ft)	89.0	536: Foundn: Pier 1	1 - Steel H Piles (Other size)				
49: Structure Length (ft)	290.0	539: Foundn: Pier 2	N - None (Such as most Culverts)				
52: Deck Width, Out-To-Out (ft) 46.0		Age and Service					
424: Deck Area (sf)	13340	27: Year Built/ 106 Reha					
32: Appr Roadway Width (42A: Service On	1 - Highway				
51: Road Width, Curb-Curl50A: Curb/SW Width: Left	• •	42B: Service Under	1 - Highway, with or w/out pedestrian				
EOA: Curb/SW/Width: Bigh	st (ft)	29 A · Longo on	pedestriari				

Geometric		533: Foundn: Abut Rear	1 - Steel H Piles (O		
48: Max Span Length (ft)	89.0	536: Foundn: Pier 1	1 - Steel H Piles (O		
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52: Deck Width, Out-To-Out (ft)	46.0		and Service		
424: Deck Area (sf)	13340	Age	and Service		
32: Appr Roadway Width (ft)	44.0	27: Year Built/ 106 Rehat	o 1977 / 000		
51: Road Width, Curb-Curb (ft)	42.5	42A: Service On	1 - Highway		
50A: Curb/SW Width: Left (ft)	0	42B: Service Under	1 - Highway, with pedestrian		
50A: Curb/SW Width: Right (ft)	0	28A: Lanes on	02		
34: Skew (deg)	0	28B: Lanes Under	06		
33: Bridge Median	0 - No median	19: Bypass Length	0		
54B: Min Vert Underclearance (ft)	14.5	29: ADT	2227		
336A: Min Vert Clrnce IR Cardinal (ft)	99	109: % Trucks (%)	5		
336B: Min V Clr IR Non-Cardinal (ft)	0	Inspections			
578: Culvert Length (ft)	0		Months		
			IVIOTILIS		

578: Culvert Length (ft)	0			Months	
	Load Posting	90: Routine Insp.		24	05/04/2023
41: Op/Post/Closed	A - Open	92A: FCM Insp.	Ν	0	
•	or above legal loads	92B: Dive Insp.	N	0	
70.01: Date	of above logal loads	92C: Special Insp.	N	0	
70.02: Sign Type		92D: UBIT Insp.	N	0	
734: Percent Legal (%)	110	92E: Drone Insp.	N	0	
704: Analysis Date	02/25/2019	Inspector Hardin	g,Rich		
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.				

Inspector: Harding,Rich **Structure Number:** 7001517

Inspection Date: 05/04/2023 Facility Carried: T-289 REED ROAD

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4	
12-Reinforced Concrete Deck	3 - Mod.	13340	sq. ft.	12931	328	81	0	
	CS2-2021 Scattered trans. hairlines & cracks, some w/ effl.& minor to moderate sa areas areas starting to dry out. CS3-2021 Span #3 along top flange of lt. fascia beam (full length): Spalled area							
	(some deep) w/							
521-Concrete Protective Coating		1160	sq. ft.	1160	0	0	0	
805-Wearing Surface - Monolithic Concrete		12325	sq. ft.	12100	225	0	0	
	CS2-2021 Scatterpan. joints: sr		cracks	& hairlines.;	both fwd.& re	ear @ deck e	nds along	
107-Steel Open Girder/Beam	3 - Mod.	1740	ft.	1720	20	0	0	
	beam over WB (19) - Several s wb driving plus (14) for span #3 driving, passing -'14 collision da bottom flange b multiple scrapes over passing lai	crapes & a a few scraps - Previous ,& ramp lar mage) - Pre ent upwards & & scratches	few gou bes on b ly It. fas nes w/ sl eviously w/ sligh es near	ges along bo ottom flange cia beam w/ light twist in I span # 3, Lt. tt sweep in a same area &	ottom flange of beam #2 lt. sweep in a cottom flange fascia beam lignment from on next bea	of It. fascia be 2014 Repair alignment over driving a over driving a collision da	eam over r Proj.#8014 er both WB lane (02 lane: mage plus	
515-Steel Protective Coating		22416	sq. ft.	20806	1288	322	0	
o to close i rotostivo coding	CS2-2021 Spar			n: Bottom fla		s of web, & x-	frames re-	
	painted w/ repa CS3-2021 New plate connection	ir Proj.#801 scuff & scrans, & bearin	4(14) & ape mar	m: Bottom fla Proj.#7036(ks in new pa	int; rust alon	g flanges, bo	Ited splice	
205-Reinforced Concrete Column	painted w/ repa CS3-2021 New	ir Proj.#801 scuff & scrans, & bearing	4(14) & ape mar	m: Bottom fla Proj.#7036(ks in new pa	int; rust alon	g flanges, bo	Ited splice	
205-Reinforced Concrete Column 521-Concrete Protective Coating	painted w/ repa CS3-2021 New plate connection	ir Proj.#801 scuff & scrans, & bearin	4(14) & ape mar	m: Bottom fla Proj.#7036(ks in new pa	int; rust alon	g flanges, bo	Ited splice	
205-Reinforced Concrete Column	painted w/ repa CS3-2021 New plate connection	ir Proj.#801 scuff & scrans, & bearing	4(14) & ape mar	m: Bottom fla Proj.#7036(ks in new pa	int; rust alon	g flanges, bo	Ited splice	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete	painted w/ repa CS3-2021 New plate connection 3 - Mod.	ir Proj.#801 scuff & scr. ns, & bearin 9 1102	4(14) & ape manng each sq. ft.	n: Bottom fla Proj.#7036(ks in new pa 9 1102	19). iint; rust alon 0 0	g flanges, bo	0 0	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A fev	ir Proj.#801 scuff & scr. ns, & bearin 9 1102	4(14) & ape manng each sq. ft.	n: Bottom fla Proj.#7036(ks in new pa 9 1102	19). iint; rust alon 0 0	g flanges, bo	0 0	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A fev	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha	4(14) & ape manng each sq. ft. ft.	m: Bottom fla Proj.#7036(ks in new pa 9 1102 82 cracks; wet	19). iint; rust alon 0 0 10 areas & rust	g flanges, bo 0 0 0 staining - lea	0 0 0 kage @	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A fevexpan. joint	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138	4(14) & ape manny each sq. ft. ft. sq. ft. ft.	m: Bottom fla Proj.#7036(ks in new pa 9 1102 82 cracks; wet 230 132	19). iint; rust alon 0 0 10 areas & rust 0 6	g flanges, bo 0 0 staining - lea	0 0 0 kage @ 0	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A few expan. joint 3 - Mod. CS2-2021 Pier	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138	4(14) & ape manny each sq. ft. ft. sq. ft. ft.	m: Bottom fla Proj.#7036(ks in new pa 9 1102 82 cracks; wet 230 132	19). iint; rust alon 0 0 10 areas & rust 0 6	g flanges, bo 0 0 staining - lea	0 0 0 kage @ 0	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating 234-Reinforced Concrete Pier Cap	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A few expan. joint 3 - Mod. CS2-2021 Pier	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138 #1: Small d	4(14) & ape marge each sq. ft. ft. sq. ft. ft. ft. elam. ar	m: Bottom fla Proj.#7036(ks in new pa 9 1102 82 cracks; wet 230 132 rea on bottor	19). iint; rust alon 0 0 10 areas & rust 0 6 n of cap; a fe	g flanges, bo 0 0 staining - lea 0 0 w vertical ha	lted splice 0 0 0 kage @ 0 0 irlines &	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating 234-Reinforced Concrete Pier Cap	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A few expan. joint 3 - Mod. CS2-2021 Pier cracks.	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138 #1: Small d 2004 92 fwd.& rear: rubberizecoids & gaps	4(14) & ape manage each sq. ft. ft. sq. ft. ft. elam. all sq. ft. ft. slight of joint se	m: Bottom fla Proj.#7036(rks in new pa 9 1102 82 cracks; wet 230 132 rea on bottom 2004 47 offset plus are ealer applied	19). iint; rust alon 0 0 10 areas & rust 0 6 n of cap; a fe 0 45 eas of rust, pi to open joint	g flanges, bo 0 0 staining - lea 0 0 w vertical ha 0 itting,& minor - uneven / po	lted splice 0 0 0 kage @ 0 0 irlines & 0 0 section	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating 234-Reinforced Concrete Pier Cap	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A few expan. joint 3 - Mod. CS2-2021 Pier cracks. 3 - Mod. CS2-2021 Both loss; both: 2011 application w/ v	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138 #1: Small d 2004 92 fwd.& rear: rubberizecoids & gaps	4(14) & ape manage each sq. ft. ft. sq. ft. ft. elam. all sq. ft. ft. slight of joint se	m: Bottom fla Proj.#7036(rks in new pa 9 1102 82 cracks; wet 230 132 rea on bottom 2004 47 offset plus are ealer applied	19). iint; rust alon 0 0 10 areas & rust 0 6 n of cap; a fe 0 45 eas of rust, pi to open joint	g flanges, bo 0 0 staining - lea 0 0 w vertical ha 0 itting,& minor - uneven / po	lted splice 0 0 0 kage @ 0 0 irlines & 0 0 section	
205-Reinforced Concrete Column 521-Concrete Protective Coating 215-Reinforced Concrete Abutment 521-Concrete Protective Coating 234-Reinforced Concrete Pier Cap 521-Concrete Protective Coating 305-Assembly Joint without Seal	painted w/ repa CS3-2021 New plate connection 3 - Mod. 3 - Mod. CS2-2021 A few expan. joint 3 - Mod. CS2-2021 Pier cracks. 3 - Mod. CS2-2021 Both loss; both: 2011 application w/ v material missing	ir Proj.#801 scuff & scr. ns, & bearin 9 1102 92 v vertical ha 230 138 #1: Small d 2004 92 fwd.& rear: rubberizecoids & gaps g. 25 s of pack ru	4(14) & ape marge each sq. ft. ft. sq. ft. ft. elam. ar sq. ft. ft. slight of ginn materials are ach ast @ ab	m: Bottom fla Proj.#7036(ks in new pa 9 1102 82 cracks; wet 230 132 rea on bottor 2004 47 offset plus are caler applied erial along jout. rockers;	19). iint; rust alon 0 0 10 areas & rust 0 6 n of cap; a fe 0 45 eas of rust, pi to open joint ints w/ leakag	g flanges, bo 0 0 staining - lea 0 0 w vertical ha 0 itting,& minor - uneven / poge - fwd. w/ s 0 olster (fixed) b	lted splice 0 0 0 kage @ 0 0 irlines & 0 0 section por ection of	

Inspector: Harding, Rich **Structure Number:** 7001517

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
321-Reinforced Concrete Approach Slab	3 - Mod.	2200	sq. ft.	2150	50	0	0
	CS2-2021 Rear: Newer asphalt resurfacing - Fwd.: Some scattered cracks.						
331-Reinforced Concrete Bridge Railing	3 - Mod.	580	ft.	480	100	0	0
	CS2-2021 Both epoxy sealed w/ proj.; scattered hairlines, most along toe fwd.: one spalled area in top of parapet.						of parapet
521-Concrete Protective Coating		3671	sq. ft.	3671	0	0	0
815-Drainage	3 - Mod.	12	each	12	0	0	0
830-Abutment Backwall	3 - Mod.	92	ft.	63	20	9	0
	CS2-2021 Both	fud & roor	tono @	w o w/ o oo	uple emall er	ooo orookod	9 brooking

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;

Structure Number: 7001517 Inspector: Harding, Rich

05/04/2023 T-289 REED ROAD **Facility Carried: Inspection Date:**

RIC-00030-1642 (7001517) ODOT District: District 03

Date Built: Facility Carried: T-289 REED ROAD Major Maint: 01 - State Highway Agency Rehab Date: Traffic On: 1 - Highway

Insp. 01 - State Highway Agency Resp A: Routine Maint: 03 - Town or Township Highway Feature Inters: OVER RIC-030 -1638 Traffic Under: 1 - Highway, with or w/out pedestrian

07/01/1977

Agency 50092 - MIFFLIN TWP (RIC county) FIPS Code: 2.34 MILES EAST OF US 42 Location: DISTRICT 03 Resp B: Inspection Date 05/04/2023

<u>Inspector Comments - Deck and Approach</u>

Deck

Reviewer Kapustar.Kent

Floor/Slab (SF)

Edge of Floor/Slab (LF)

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

Harding,Rich

Bridge Wearing Surface (SF)

Inspector

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

<u>Superstructure</u>

Inspector: Harding, Rich Structure Number: 7001517

Inspection Date: 05/04/2023 Facility Carried: T-289 REED ROAD

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.

<u>Substructure</u>

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: Harding,Rich Structure Number: 7001517

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Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

Inspector: Rich Harding **Structure Number:** 7001517

Inspection Date: 05/04/2023 Facility Carried: T-289 REED ROAD

Bridge Inspection Report

Pictures