

Inspector: Lentz,Stephanie

Inspection Date: 02/25/2025

Structure Number: 0900052

Facility Carried: MILLIKIN ROAD CR-2

Ohio Bridge Inspection Summary Report

BUT-0004B-0575 (0900052)

B.L.04: District District 0825984 - FAIRFIELD TWP (BUT county)

B.CL.02: Major Maint 02 - County Highway Agency /

225 Routine Main A/B 02 - County Highway Agency /

221 Inspection A/B 01 - State Highway Agency /

5A: Inventory Route 1 00022

7: Facility On MILLIKIN ROAD CR-2

6: Feature Ints STATE ROUTE 4-B

9: Location .22 MILES SOUTH OF SR-4

Lat, Lon 39.406269 , -84.502461

Condition

Structure Type

B.C.01: Deck 6

58.01: Wearing Surface 5

43: Bridge Type 5 - Prestressed concrete

B.C.08: Joint 6

59.01: Paint & PCS N

B.C.03: Substructure 7

B.C.09: Channel N

B.C.11: Scour N

B.C.10: Channel Prot.

B.C.05: Bridge Railing

B.C.06: Transitions

B.C.07: Bearings

B.C.04: Culverts N

Ohio GA 6

45: Spans Main / Approach 3 / 0

107: Deck Type 1 - Concrete Cast-in-Place

408: Composite Deck Y - Composite Construction

414A Joint Type 1 8 - Elastomeric Strip Seal

414B: Joint Type 2 N - None

108A: Wearing Surface 1 - Monolithic Concrete (concurrently placed with structural deck)

N - Not Applicable

422: WS Date

423: WS Thick (in) 1.0

482: Protective Coating B - Epoxy - Urethane sealers

483: PCS Date 01/01/2000

453: Bearing Type 1 C - Elastomeric (laminated)

455: Bearing Type 2 N - None

528: Foundn: Abut Fwd 4 - Spread Footing (on soil)

533: Foundn: Abut Rear 4 - Spread Footing (on Soil)

536: Foundn: Pier 1 4 - Spread Footing (on soil)

539: Foundn: Pier 2 N - None (Such as most Culverts)

Appraisal

B.AP.03: Scour Vul. Not over Waterway

Geometric

48: Max Span Length (ft) 93.0

49: Structure Length (ft) 236.5

52: Deck Width, Out-To-Out (ft) 36.3

424: Deck Area (sf) 8584.95

32: Appr Roadway Width (ft) 33.0

51: Road Width, Curb-Curb (ft) 33.0

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) 25

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 2000 / 0000

42A: Service On 1 - Highway

42B: Service Under 1 - Highway, with or w/out pedestrian

28A: Lanes on 02

28B: Lanes Under 02

19: Bypass Length 1

29: ADT 6540

109: % Trucks (%) 6

Load Posting

Inspections

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 04/12/2024

63: Analysis Method 8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF)

method using HL-93 loadings.

90: Routine Insp. 12 Months

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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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	8593	sq. ft.	6954	1638	1	0
		CS2: Possibly some minor seepage/leakage in span 1 between beams 4, 5, 7, 8 and 9. Span 2, leakage between beams 4, 5 and 6. Span 3, evidence of leakage between 2, 3, 6, 7 & 8. Beam 9 at right fwd. and rear outside, HL cracks. Beam 1 at left fwd. and rear, outside, HL cracks, one 20-1/2" HL vertical crack. Cracks to beam ends at piers. Horizontal cracks to OS fascia up approx. 10" from bottom, and up to 12'l in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'l by 0.5'w and 5'l by 0.5'w, and another area next to pier 1 left side 4'l by 0.5'w. Span 2, leakage with 0.5'l by 0.2'w area of saturated concrete inside 16'l by 0.5'w area of efflor. Span 3, beam 4, has a small spall out from abut to rt bottom edge. CS3: Beam 9, rear right edge has spall with 1 strand exposed.					
805-Wearing Surface - Monolithic Concrete		7805	sq. ft.	0	5185	2620	0
		CS2: Definite longitudinal cracks running along beam lines. Cracks measure <.05in wide with spacing <1' to 3'. 2019, used chain to sound deck, only found a few small areas of delam. No signs of wearing surface pulling away or spalling. Shallow spalls at fwd. along deck steel. 4" l x 1" w. Void in left rear WS. (2021; 2022, 23) Used a hammer in a few areas to check, found a few small areas.) CS3: Areas of HL/pattern map cracking with spacing >1' apart. A few longitudinal cracks open .06" W,					
104-Prestressed Concrete Closed Web/Box Girder	3 - Mod.	2128	ft.	489	1638	1	0
		CS2: Evidence of minor seepage/leakage in span 1 between beams 4, 5, 7, 8 and 9. Span 2, leakage between beams 4, 5 and 6. Span 3, evidence of leakage between 2, 3, 6, 7 & 8. Beam 9 at right fwd. and rear outside, HL cracks. Beam 1 at left fwd. and rear, outside, HL cracks, one 20-1/2" HL vertical crack. Cracks to beam ends at piers. Horizontal cracks to OS fascia up approx. 10" from bottom, and up to 12'l in spans 2 and 3. Leakage with saturated concrete at span 1 between beams 4 and 5 bottom corners. Two areas at midspan 2'l by 0.5'w and 5'l by 0.5'w, and another area next to pier 1 left side 4'l by 0.5'w. Span 2, leakage with 0.5'l by 0.2'w area of saturated concrete inside 16'l by 0.5'w area of efflor. Span 3, beam 4, has a small spall out from abut to rt bottom edge. CS3: Beam 9, rear right edge has spall with 1 strand exposed.					
205-Reinforced Concrete Column	3 - Mod.	6	each	0	6	0	0
		CS2: HL vertical cracks to columns. Areas of light rust staining appearing in cracks. Small shallow spall and scrapes at pier 2 column 3 up from ground.					
521-Concrete Protective Coating		1695	sq. ft.	1695	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	73	ft.	58	15	0	0
		CS2: HL vertical cracks, a few with efflor. (15 l/ft)					
521-Concrete Protective Coating		365	sq. ft.	365	0	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	73	ft.	70	3	0	0
		CS2: HL vertical and diagonal cracks in caps over OS columns.					
300-Strip Seal Expansion Joint	3 - Mod.	72	ft.	27	45	0	0
		CS2: Medium debris in glands, not effecting performance. HL cracking in header and a few shallow spalls.					
310-Elastomeric Bearing	3 - Mod.	72	each	68	4	0	0
		CS2: Beam 1 at left fwd, bearing pad moved in towards BW, approx .half of bearing pad out from under beam 1, no noticeable change from last inspection. Rear bearing 5 has shifted laterally and is not completely under at right.					

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321-Reinforced Concrete Approach Slab	3 - Mod.	1650	sq. ft.	1060	540	50	0
				CS2: Longitudinal cracks <.05in wide, rear with transverse and longitudinal cracks in fwd. slab. Some HL pattern map cracking in rear slab, left lane. Couple narrow spalls, fwd. Left fwd. slab side exposed at pavement joint from water runoff. Impact damage to slabs at pvm joints due to low profile of asphalt. CS3: Two longitudinal cracks fwd., .06" wide.			
331-Reinforced Concrete Bridge Railing	3 - Mod.	473	ft.	0	473	0	0
				Moderate rusting at VPF posts, bottoms. CS2: Vertical cracks between deflection joints, horizontal cracking along top of bottom bevel area. Vertical and diagonal cracks around post anchor bolts. Numerous shallow aggregate popouts. HL horizontal cracks on outside face around VPF bases. Some light rust staining evident.			
521-Concrete Protective Coating		3784	sq. ft.	1892	0	0	1892
				CS4: Peeling on all sides of concrete parapets.			
815-Drainage	3 - Mod.	2	each	0	2	0	0
				CS2: Evidence of water standing along left fwd. railing.			
830-Abutment Backwall	3 - Mod.	73	ft.	62	11	0	0
				CS2: Vertical, horizontal cracks visible at corners of BW close to WW joints, with efflor buildup.			

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ODOT District:	District 08	Date Built:	07/01/2000
Major Maint:	02 - County Highway Agency	Facility Carried:	MILLIKIN ROAD CR-2
Routine Maint:	02 - County Highway Agency	Feature Inters:	STATE ROUTE 4-B
FIPS Code:	25984 - FAIRFIELD TWP (BUT county)	Location:	DISTRICT 08 .22 MILES SOUTH OF SR-4
Inspector	Lentz,Stephanie	Inspection Date	02/25/2025
		Reviewer	Collett,Brandon
Insp A:	01 - State Highway Agency		
Insp B:			

Inspector Comments - Deck and Approach

Deck

Concrete Deck

Evidence of leakage between beams. HL cracks visible in exterior fascia of OS beams. Few small spalls; beam 4 at fwd. abutment and rear, beam 9, with one strand exposed.

Bridge Wearing Surface

HL pattern map cracking throughout surface. ("4" rating based on map cracking throughout surface but there is no evidence of surface pulling away or delaming. 2022; sounded random areas with hammer.) Small shallow spalls along joint steel.

Bridge Railing

Vertical cracks in both rails with horizontal crack along top of lower haunch. Aggregate pops, cracks at post mountings and some light staining.

Drainage

Expansion Joint

HL cracks in slab headers, some debris in glands.

Approach

Approach Wearing Surface

Narrow potholes, with cracking at, along fwd. pvmt/appr joint, transverse and longitudinal cracks. Profile of asphalt low at slab, some rutting in fwd. area. Rear has newer asphalt. Settlement at both ends along slabs has caused some map cracking.

Approach Slabs

Longitudinal cracks rear and fwd., one up to 1/16" wide fwd. Narrow spalls and impact damage at header and pavement joints.

Approach Embankment

Minor pavement settlement along approach slab ends. Some signs of base failure mainly at rear.

Approach Guardrail

Right rear, one panel has minor dent, one block turned. Left fwd., 2 panels damaged and one steel post

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moved.

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Inspector Comments - General Appraisal

Superstructure

Beams/Girders

Some evidence of seepage through beams in random areas, some small areas of saturation. Leakage: Span 1 between beams 4-9. Span 2 between beams 4-6 and span 3 between beams 2, 3 and 6-8. HL vertical and horizontal cracks to exterior faces of OS beams at rear and fwd. ends and over piers. Small spall in beam 4 at fwd. abutment and beam 9, over rear abutment with one strand exposed.

Bearings Devices

Slight movement of few bearing pads.

Protective Coating System

Sides and approx. 10" of left and right floor edges sealed with epoxy. Epoxy sealer peeling on railing, WW's and some columns.

Substructure

Abutments

HL vertical cracks, some efflor. rear and fwd.

Pier Columns

HL cracks to few columns, some with staining. Shallow spall, scrape to col. 3, pier 2. Pier Caps HL vertical and diagonal/shear cracks over OS columns.

Wingwalls

Minor random hairline cracks. Sealer peeling to WW tops.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

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Scour Critical

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Pictures