

Inspector: Mathews,Timothy

Inspection Date: 09/10/2024

Structure Number: 2507595

Facility Carried: IR70 E TO IR71 N

Ohio Bridge Inspection Summary Report**FRA-00071-1703R (2507595)**2: District 18000 - COLUMBUS (DEL & FRA county)
ict
06

5A: Inventory Route 1 00071

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 067: Facility On IR70 E TO IR71 N
6: Feature Ints RMP IR71SB TO IR70EB
9: Location 0.53 MI S OF US40
Lat, Lon 39.9565258 , -82.9828127

Condition		Structure Type	
58: Deck	6 - Satisfactory Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	5 - Fair (10-15%, 2% asphalt patch)		02 - Stringer/Multi-beam or Girder
58.02 Joint	5- Fair (obvious leaking, 1" offset)		N- Not Applicable
59: Superstructure	4 - Poor Condition	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	6 - Satisfactory (5-10% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
60: Substructure	5 - Fair Condition	408: Composite Deck	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	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)

67.01 GA

4

Appraisal			
Sufficiency Rating	55.1	SD/FO	1 - SD
36: Rail, Tr, Gd, Term Std	1 0 1 1		
72: Approach Alignment	7 - Better than present minimum criteria		
113: Scour Critical	N - Not over waterway		
71: Waterway Adequacy	N - Not Applicable		

Geometric	
48: Max Span Length (ft)	108.0
49: Structure Length (ft)	247.4
52: Deck Width, Out-To-Out (ft)	43.3
424: Deck Area (sf)	10712.42
32: Appr Roadway Width (ft)	45.0
51: Road Width, Curb-Curb (ft)	40.3
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	58
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	14.67
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

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 (%)	105
704: Analysis Date	07/29/2019
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

422: WS Date	06/25/2005
423: WS Thick (in)	1.8
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	10/31/1990
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	B - Fixed
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)

Age and Service	
27: Year Built/ 106 Rehab	1965 / 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	8462
109: % Trucks (%)	19

Inspections		
	Months	
90: Routine Insp.	12	09/10/2024
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.	10722	sq. ft.	10354	116	252	0
	CS2: Random underside cracks with efflorescence (12sf). CS3: Spalls in span 1 under right lane (10sf) and spall with exposed rebar on right deck edge span 2 (1sf). 2022 CS2 Transverse cracks w/ efflor & minor delams & spalls @ flanges 100 sq.ft CS3 Over PS1 bay 3 - large hot spot w/ map cracking w/ efflor. Large pot holes on top side 500 sq.ft Fwd. Edge - spalls w/ exposed rebar w/ section loss 7' 2023 CS2 trans cracking with efflor,minor delams and spalling @ flanges 100 sq ft. Over PS1 bay 3 large hot spot with map cracking and efflor 500 sq ft.						
510-Wearing Surfaces		9959	sq. ft.	9134	825	0	0
	CS2: Broken and cracked area in right lane. 2022 CS2 Sound patched areas 650 sq.ft 2023 same as 2022						
107-Steel Open Girder/Beam	3 - Mod.	1237	ft.	1193	15	7	22
	2022 CS2 Fwd. beam #1 end - pack rust w/ minor section loss 4' CS4 Rear beam #1 end - rusted w/ major section loss in webbing at bottom flange 2' 2023 same as 2022						
515-Steel Protective Coating		13607	sq. ft.	0	13334	0	273
	CS2: Minor rust on bottom flange throughout, (2%). 2022 CS2 Minor rust on bottom flange throughout, (2%). CS4 Beam #1 ends - 2023 same as 2022						
205-Reinforced Concrete Column	3 - Mod.	10	each	1	8	1	0
	CS2: Minor cracking near bearings of several columns. CS3: Spall with exposed rebar pier 2 column 1. 2022 CS2 PS1 col.2-5 minor cracking at top PS2 col. 2 - minor open cracks CS3 PS2 col. 1 - Spall w/ exposed rebar 2023 same as 2022						
215-Reinforced Concrete Abutment	3 - Mod.	164	ft.	153	11	0	0
	CS2: Vertical cracking with water stains in rear abutment (5ft). 2022 - Same as previous inspection 2023 same as						
305-Assembly Joint without Seal	3 - Mod.	87	ft.	35	0	52	0
	2022 CS3 Rear C/L - joint closed 12' 2023 same as 2022						
311-Movable Bearing	3 - Mod.	15	each	5	4	1	5

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ODOT District: District 06

FRA-00071-1703R_(2507595)

Date Built: 07/01/1965

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: RMP IR71SB TO IR70EB

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

Insp. 01 - State Highway Agency

FIPS Code: 18000 - COLUMBUS (DEL & FRA county)

Location: DISTRICT 06

0.53 MI S OF US40

Insp
Resp B:

Inspector

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Inspection Date 09/10/2024

Reviewer Backs,Jared

Inspector Comments - Deck and Approach

Deck

Deck is in good condition, minor spalls with exposed rebar.

Overlay is in good condition, one broken and cracked area.

Railing is in good condition, typical vertical cracking and vehicle scrape damage.

Approach

Approach slab is not visible due to AC overlay.

Hole in top of left rear approach slab allows water onto beam seat.

Approach guardrail in good condition.

Inspector Comments - General Appraisal

Superstructure

Superstructure is in fair condition, heavy rust to abutment bearings and minor rust on bottom flanges.

No utilities.

Substructure

Substructures are in fair condition, heavy spalling with exposed rebar in backwalls.

Abutments are in fair condition, heavy spalling with exposed rebar in backwalls.

Piers are in good condition, minor cracking in columns.

Wingwalls are in good condition, spall in corner of left forward wingwall.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

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Channel

Scour Critical

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Bridge Inspection Report

Pictures



PHOTO 1

Description Rear Abut



PHOTO 2

Description PS1 col. 3

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PHOTO 3

Description B1 @ Rear Abut



PHOTO 4

Description Rear backwall bay 1

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PHOTO 5

Description Span 1 B5



PHOTO 6

Description Span 1 B3

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Bridge Inspection Report

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PHOTO 7
Description Span 1 B2



PHOTO 8
Description Span 1 B1

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PHOTO 9

Description Bay 3 @ PS1



PHOTO 10

Description Span 2 B1 (near middle of span)

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PHOTO 11

Description PS2 col. 1



PHOTO 12

Description Fwd Abut bearing #1

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PHOTO 13

Description Span 3 B1 (2 cross members toward Rear from Fwd Abut)



PHOTO 14

Description 20240910_095513_2507595

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PHOTO 15

Description Fwd Joint



PHOTO 16

Description Wearing Surface

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PHOTO 17

Description WS - large patched area



PHOTO 18

Description Rear Approach

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Bridge Inspection Report

Pictures



PHOTO 19

Description Span 3 B1 (2nd cross frame back from Fwd Abut)

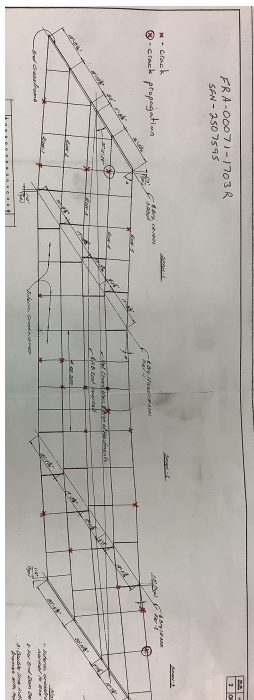


PHOTO 20

Description Sketch of crack locations