

Inspector: Jewell,Todd

Inspection Date: 04/24/2024

Structure Number: 0700797

Facility Carried: SR 7

Ohio Bridge Inspection Summary Report

BEL-00007-2497 (0700797)

2: District 48104 - MARTINS FERRY (BEL county)
ict
11

5A: Inventory Route 1 00007

21: Major Maint A/B 01 - State Highway Agency /
225 Routine Main A/B 04 - City or Municipal Highway /26
Agency
221 Inspection A/B 01 - State Highway Agency /
220: Inv. Location DISTRICT 11

7: Facility On SR 7
6: Feature Ints PATTON RUN & TR 469
9: Location 1.47MI.S.OF BEL JEF CO LI
Lat, Lon 40.13646 , -80.71442

Condition		Structure Type	
58: Deck	7 - Good Condition	43: Bridge Type	4 - Steel continuous
58.01 Wearing Surface	6 - Satisfactory (1-10% distress)		02 - Stringer/Multi-beam or Girder
58.02 Joint	4- Poor (heavy leaking, offset)		N- Not Applicable
59: Superstructure	7 - Good Condition	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	6 - Satisfactory Condition	408: Composite Deck	N - Non-composite Construction
61: Channel	7	414A Joint Type 1	2 - Sliding Metal Plate Angle
61.01 Scour	6 - Satisfactory	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)
			2- MicroSilica
67.01 GA	6	422: WS Date	10/27/1999

Appraisal				
Sufficiency Rating	91.5	SD/FO	2 - FO	
36: Rail, Tr, Gd, Term Std	1	1	1	1
72: Approach Alignment	7 - Better than present minimum criteria			
113: Scour Critical	5 - Scour within limits of footing or piles			
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations			

Geometric	
48: Max Span Length (ft)	45.0
49: Structure Length (ft)	158.0
52: Deck Width, Out-To-Out (ft)	102.0
424: Deck Area (sf)	16116
32: Appr Roadway Width (ft)	98
51: Road Width, Curb-Curb (ft)	98.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	22
33: Bridge Median	3 - Closed median with non-mountable barriers
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

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 (%)	150
704: Analysis Date	07/01/1983
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.

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	2 - Integral Concrete (separate non-modified layer of concrete added to structural deck)
	2- MicroSilica
422: WS Date	10/27/1999
423: WS Thick (in)	2.8
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	10/01/1999
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	B - Fixed
528: Foundn: Abut Fwd	7 - Steel H Piles (HP 10 x 42)
533: Foundn: Abut Rear	7 - Steel H Piles (HP 10 x 42)
536: Foundn: Pier 1	7 - Steel H Piles (HP 10 x 42)
539: Foundn: Pier 2	U - Unknown

Age and Service	
27: Year Built/ 106 Rehab	1976 / 0000
42A: Service On	1 - Highway
42B: Service Under	6 - Highway - waterway
28A: Lanes on	04
28B: Lanes Under	02
19: Bypass Length	3
29: ADT	18497
109: % Trucks (%)	11

Inspections		
	Months	
90: Routine Insp.	12	04/24/2024
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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ODOT District: District 11

BEL-00007-2497 _(0700797)

Date Built: 07/01/1976

Major Maint: 01 - State Highway Agency

Facility Carried: SR 7

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 04 - City or Municipal Highway Agency

Feature Inters: PATTON RUN & TR 469

Traffic Under: 6 - Highway - waterway

Insp. 01 - State Highway Agency

FIPS Code: 48104 - MARTINS FERRY (BEL county)

Location: DISTRICT 11

1.47MI.S.OF BEL JEF CO LI

Insp
Resp B:

Inspector

Jewell,Todd

Inspection Date 04/24/2024

Reviewer Trivoli,Raymond

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

NEW ASPHALT 2016. TRANSVERSE AND LONGITUDINAL CRACKING WITH POTHOLES THROUGHOUT.

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Approach Relief Joint (LF)

ASPHALT COVERED. CRACKING @ JOINTS, SEALED. CRACK AT PRESSURE RELIEF JOINT AT BOTH REAR AND FWD AND HUMPED UP. BREAKING UP AT APP. SLAB. JOINT REAR AND FWD. REGULAR WEAR ON APP. SURFACE.

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Inspector Comments - General Appraisal

Superstructure

Diaphragm/X-Frames (EA)

PACK RUST AT FWD AND REAR ABUT W / CRACKED WELDS. **2021:** crossframe diagonal members with broken and cracked welds at lower connection plate between Beams 4 and 5 (cracked), Beams 9 and 10, Beams 11 and 12 at the Rear Abutment; Beams 4 and 5, Beams 5 and 6, Beams 6 and 7, Beams 10 and 11 at the Forward Abutment.

Fatigue (LF)

COVER PLATE WELDS ON CENTER PIER.

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Substructure

Substructure Scour (EA)

TOP EDGE OF FOOTER EXPOSED ON 3RD AND 5TH AND 7TH FROM LEFT CENTER PIER COLUMNS. 2022: Erosion along forward edge of channel exposing additional 4' of Columns 2 through 7 at Pier 2. Footings for Columns 2 to 7 exposed for up to 16". No undermining visible. 2024- COLUMNS 1-6 FOOTING IS EXPOSED UP TO 16"IN WORST LOCATIONON REAR FACE NO UNDERMINING VISIBLE AND FOOTER IS ON (10X42) PILING ACCORDING TO PLAN PAGE 372.

Slope Protection (EA)

SEVERE WASHING ALONG TR 469. NO DITCH ON FWD SIDE, WATER RUNS DOWN MIDDLE OF THE ROAD. TREES GROWING ALONG SIDES.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

CHANNEL PROTECTION (LF)

2022: Erosion along forward edge of channel exposing additional 4' of Columns 2 through 7 at Pier 2. Footings for Columns 2 to 7 exposed for up to 16". No undermining visible.

Scour Critical

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Pictures