

Inspector: Jewell,Todd  
Inspection Date: 04/23/2024

Structure Number: 0700770  
Facility Carried: SR 7

## Ohio Bridge Inspection Summary Report

**BEL-00007-2361 (0700770)**

2: District	Distr 48104 - MARTINS FERRY (BEL county)	5A: Inventory Route	1	00007
ict				
11				
21: Major Maint A/B	01 - State Highway Agency	/	7: Facility On	SR 7
225 Routine Main A/B	04 - City or Municipal Highway Agency	/	6: Feature Ints	GLENNS RUN
221 Inspection A/B	01 - State Highway Agency	/	9: Location	1.71 MI N OF JCT SR 647
220: Inv. Location	DISTRICT 11		Lat, Lon	40.11710, -80.70993

Condition		Structure Type		
58: Deck	<b>8 - Very Good Condition</b>	43: Bridge Type	3 - Steel	
58.01 Wearing Surface	8 - Very Good (isolated or minor problems)		02 - Stringer/Multi-beam or Girder	
58.02 Joint	6- Satisfactory (isolated leaking)		N- Not Applicable	
59: Superstructure	<b>7 - Good Condition</b>	45: Spans Main / Approach	1	/ 0
59.01 Paint & PCS	7 - Good (1-5% corr.)	107: Deck Type	1 - Concrete Cast-in-Place	
60: Substructure	<b>7 - Good Condition</b>	408: Composite Deck	Y - Composite Construction	
61: Channel	<b>6</b>	414A Joint Type 1	8 - Elastomeric Strip Seal	
61.01 Scour	<b>7 - Good</b>	414B: Joint Type 2	N - None	
62: Culverts	<b>N - Not Applicable</b>	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)	

67.01 GA 7

Appraisal				
Sufficiency Rating	93.1	SD/FO	0 - ND	422: WS Date
36: Rail, Tr, Gd, Term Std	1	1	1	423: WS Thick (in)
72: Approach Alignment	8 - Equal to present desirable criteria			482: Protective Coating
113: Scour Critical	5 - Scour within limits of footing or piles			483: PCS Date
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations			453: Bearing Type 1

Geometric				
48: Max Span Length (ft)	51.0			528: Foundn: Abut Fwd
49: Structure Length (ft)	56.7			533: Foundn: Abut Rear
52: Deck Width, Out-To-Out (ft)	78.2			536: Foundn: Pier 1
424: Deck Area (sf)	4433.94			539: Foundn: Pier 2
32: Appr Roadway Width (ft)	78.2			
51: Road Width, Curb-Curb (ft)	66.5			
50A: Curb/SW Width: Left (ft)	7			
50A: Curb/SW Width: Right (ft)	0			
34: Skew (deg)	38			
33: Bridge Median	3 - Closed median with non-mountable barriers			
54B: Min Vert Underclearance (ft)	0			
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			90: Routine Insp.
70: Posting	5 - Equal to or above legal loads			92A: FCM Insp.
70.01: Date				92B: Dive Insp.
70.02: Sign Type				92C: Special Insp.
734: Percent Legal (%)	150			92D: UBIT Insp.
704: Analysis Date	07/01/1983			92E: Drone Insp.
63: Analysis Method	7 - Allowable Stress (AS) rating reported			Inspector Jewell,Todd

Months 24 04/23/2024

N 0

N 0

N 0

Y 60 03/22/2022

N 60 03/08/2021

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**Inspection Date:** 04/23/2024      **Facility Carried:** SR 7  
by rating factor (RF) method using MS18  
loading.

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	4434	sq. ft.	4399	35	0	0
CS2- (35SF) TRANSVERSE LEACHING CRACKS THROUGHOUT BAYS.							
805-Wearing Surface - Monolithic Concrete		3772	sq. ft.	3742	30	0	0
NOTE: LEFT SIDEWALK ONLY. A FEW CRACKS TO REAR & FORWARD APPROACH WALKS.							
CS2- (30SF) A FEW TRANSVERSE CRACKS.							
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	583	ft.	408	168	7	0
CS2= SCATTERED SURFACE RUST, MAINLY ALONG FLANGE EDGES.							
CS3= SECTION LOSS AT FORWARD ENDS OF BEAMS 5 & 6 AND AT OUTSIDE FORWARD END OF RIGHT FASCIA.							
515-Steel Protective Coating		6598	sq. ft.	6548	42	8	0
NOTE: OZEU 9-17							
CS2= SCATTERED SURFACE RUST, MAINLY ALONG FLANGE EDGES.							
CS3= AREAS OF PEELING PAINT AT REAR END OF BEAM 3 & ALONG EDGES OF LOWER FLANGES IN MEDIAN BAY.							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	199	ft.	163	25	11	0
NOTE: CONCRETE DETERIORATION TO REAR-RIGHT WINGWALL OUTSIDE OF ABUTMENT LIMITS. SCOUR HOLES AS DEEP AS 2' ALONG FORWARD ABUTMENT (PROBING INDICATES NO UNDERMINING).							
CS2- A FEW HORIZONTAL CRACKS SCATTERED THROUGHOUT. LEACHING DELAM AT TOP RIGHT CORNER OF FORWARD ABUTMENT.							
CS3- SMALL VOID AT FORWARD CONSTRUCTION JOINT BELOW BAY 2 (NEAR WEEP HOLE). SPALLING ALONG FORWARD CONSTRUCTION JOINT BELOW BAY 10. A FEW OTHER SCATTERED SPALLS TO FORWARD ABUTMENT. A FEW RUST STAINS.							
<b>300-Strip Seal Expansion Joint</b>	3 - Mod.	193	ft.	66	123	4	0
CS2- (105LF) AREAS OF SEALS PACKED WITH DIRT. BOTH REAR AND FWD.							
REAR							
CS2- (6LF) LONG. CR. IN HEADER.							
CS3- EVIDENCE OF WATER LEAKING IN REAR BAY 2.							
FWD							
CS2- (12LF) LONG. CR. IN HEADER.							
<b>305-Assembly Joint without Seal</b>	3 - Mod.	14	ft.	14	0	0	0
LT SIDE OF STR. ON SIDEWALK.							
<b>311-Movable Bearing</b>	3 - Mod.	11	each	11	0	0	0
<b>313-Fixed Bearing</b>	3 - Mod.	11	each	11	0	0	0

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<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	4690	sq. ft.	4358	259	73	0
	REAR APP. SLAB CS3- (48SF) WIDE DIAG. CR. AT REAR LT SIDE. CS2- (84SF) MOD.DIAG. CR. AT REAR RT SIDE.						
	FWD APP. SLAB CS2- (80SF) MOD. DIAG. CR. AT FWD LT SIDE. CS2- (95SF) MOD. DIAG. CR. AT FWD RT SIDE. CS3- (25SF) WIDE DIAG. CR. AT FWD RT SIDE.						
<b>330-Metal Bridge Railing</b>	3 - Mod.	56	ft.	56	0	0	0
	52" HIGH RAIL						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	113	ft.	104	9	0	0
	RT SIDE RAIL 43" HIGH	NOTE: PEELING SEALER TO RIGHT RAIL.					
	CS2- (9LF) A FEW VERTICAL CRACKS (SOME LEACHING) TO BOTH RAILS.						
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0
<b>830-Abutment Backwall</b>	3 - Mod.	199	ft.	197	2	0	0
	CS2= DIAGONAL LEACHING CRACK AT REAR-RIGHT.						

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<b>BEL-00007-2361_(0700770)</b>	
ODOT District: District 11	Date Built: 07/01/1976
Major Maint: 01 - State Highway Agency	Rehab Date: 12/07/2017
Routine Maint: 04 - City or Municipal Highway Agency	Insp. 01 - State Highway Agency
FIPS Code: 48104 - MARTINS FERRY (BEL county)	Resp A:
Inspector Jewell,Todd	Insp. Trivoli,Raymond
Inspection Date 04/23/2024	Reviewer Trivoli,Raymond

### Inspector Comments - Deck and Approach

#### Deck

#### Approach

#### APPROACH WEARING SURFACE (EA)

NOTE: THROUGH CRACK WITH SOME SETTLING TO FORWARD-LEFT APPROACH WALK. APPROACH WEARING SURFACE CONDITION - LONGITUDINAL CRACKS IN SB FORWARD & BOTH NB WEARING SURFACES. ASPHALT PATCHES IN REAR NB LANE #3 & FORWARD SB LANE #2. SOME SETTLING AT ASPHALT PATCH IN REAR NB LANE #3. MINOR ASPHALT BREAK UP & POTHOLE ALONG REAR SLAB IN NB LANE #3. ASPHALT BREAK UP ALONG FORWARD EDGE OF NB FORWARD WEARING SURFACE.

### Inspector Comments - General Appraisal

#### Superstructure

#### Substructure

#### Culvert

### Inspector Comments - Waterway

#### Waterway Adequacy

#### Channel

#### Protection (LF)

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TREES GROWING THROUGH OLD SECTION OF RETAINING WALL AT REAR-LEFT. GAPS BETWEEN OLD RETAINING WALL & NEW RETAINING WALL WHERE HIGH WATER CAN GET BEHIND. LAST SECTION OF NEW RETAINING WALL BEING UNDERMINED & SEPARATING W / 16" DISPLACEMENT AT TOP (APPROX 200' UPSTREAM AND NOT IMPACTING STRUCTURE AT THIS TIME).

**Hydraulic Opening (EA)**

SEDIMENT, DEBRIS, ROCKS & PIECES OF OLD CONCRETE BUILT UP IN CHANNEL & ALONG REAR ABUTMENT CAUSING FLOW ALONG FORWARD ABUTMENT. SOME STREAM BED DEGRADATION.

**Scour Critical**

2024: LT REAR UNDER BAY # 7 AT WATER LINE SCOUR HOLE ABOUT 2' DEEP AT LOCATION OF ABUT. THAT STICKS OUT AT BOT. SEE 2024 PICTURE (IMG 1458)

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**Bridge Inspection Report**

**Pictures**