

Inspector: Beedy,Matthew  
 Inspection Date: 03/22/2023

Structure Number: 4505514  
 Facility Carried: SR 161 WB

## Ohio Bridge Inspection Summary Report

**LIC-00161-0062L (4505514)**

2: District 39102 - JERSEY TWP (LIC county)  
 District 05

5A: Inventory Route 1 00161

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 05

7: Facility On SR 161 WB  
 6: Feature Ints WB 161 OVER BEECH ROAD  
 9: Location .6 MI E OF FRANKLIN C LIN  
 Lat, Lon 40.0802509480371 , -82.7535848974824

Condition		Structure Type	
<b>58: Deck</b>	<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	N- Not Applicable		N- Not Applicable
<b>59: Superstructure</b>	<b>8 - Very Good Condition</b>	45: Spans Main / Approach	1 / 0
59.01 Paint & PCS	8 - Very Good (up to 1% corr.)	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>8 - Very Good Condition</b>	408: Composite Deck	Y - Composite Construction
<b>61: Channel</b>	<b>N</b>	414A Joint Type 1	N - None
61.01 Scour	N - Not Applicable	414B: Joint Type 2	N - None
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface	1 - Monolithic Concrete (concurrently placed with structural deck)
			N- Not Applicable
<b>67.01 GA</b>	<b>8</b>		

Appraisal			
Sufficiency Rating	85.0	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	1	1 1
72: Approach Alignment	7 - Better than present minimum criteria		
113: Scour Critical	N - Not over waterway		
71: Waterway Adequacy	N - Not Applicable		

422: WS Date	11/01/2008
423: WS Thick (in)	1.0
482: Protective Coating	9 - Paint System IZEU
483: PCS Date	10/01/2008
453: Bearing Type 1	D - Integral & semi-integral abutment bearings
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	C - Cast-in-Place Reinforced Concrete Piles (16" diameter)
533: Foundn: Abut Rear	C - Cast-in-Place Reinforced Concrete Piles (16" diameter)
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	142.0
49: Structure Length (ft)	144.0
52: Deck Width, Out-To-Out (ft)	59.5
424: Deck Area (sf)	8568
32: Appr Roadway Width (ft)	56.0
51: Road Width, Curb-Curb (ft)	56.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	8
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	18
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	2008 / 0000
42A: Service On	1 - Highway
42B: Service Under	1 - Highway, with or w/out pedestrian
28A: Lanes on	02
28B: Lanes Under	06
19: Bypass Length	14
29: ADT	15420
109: % Trucks (%)	5

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	07/01/2011
63: Analysis Method	8 - Load and Resistance Factor Rating

Inspections		
	<i>Months</i>	
90: Routine Insp.	24	03/22/2023
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
Inspector	Beedy,Matthew	

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(LRFR) rating report by rating factor (RF)  
method using HL-93 loadings.

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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.	8568	sq. ft.	8480	88	0	0
Cracks (hairline) along both right and left edges.							
805-Wearing Surface - Monolithic Concrete		8065	sq. ft.	7263	802	0	0
2019 - HMWM is currently being placed Approximately 10% of the wearing surface has been patched including the left rear shoulder, right rear shoulder, left forward shoulder, and right forward shoulder and traveled lane (800 SF, CS2). There is an 18" x 18" patch in the inside lane at the right forward end (2 SF, CS2).							
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	966	ft.	966	0	0	0
515-Steel Protective Coating		16382	sq. ft.	14121	2261	0	0
Exhibits fading along outside fascia beams estimated 120' (CS2). Areas of the interior exhibits faded and discolored spots (CS2)							
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	121	ft.	114	7	0	0
Forward abutment exhibits rust colored staining from leaking spill in diaphragm at the left end (2 LF, CS2) and right end (2 LF, CS2). Exhibits two (2) minor vertical cracks above the second and third drainage outlets (2 LF, CS2). Exhibits a minor sound patch (6" diameter) at the bottom located left of center (1 LF, CS2).							
<b>312-Enclosed/Concealed Bearing</b>	3 - Mod.	14	each	14	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	5593	sq. ft.	5587	6	0	0
HMWM has been applied							
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	288	ft.	278	10	0	0
Left railing exhibits a minor horizontal crack at midspan (10 LF, CS2). Right railing exhibits minor surface scrapes at the right rear and right forward, but not effecting concrete.							
<b>815-Drainage</b>	3 - Mod.	2	each	1	1	0	0
Ponding along approach slab							
<b>840-Approach Slab: Termination or Joint</b>	3 - Mod.	80	ft.	72	8	0	0
CS2 - Grass growing along edges							

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ODOT District: District 05

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Date Built: 11/01/2008

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: WB 161 OVER BEECH ROAD

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

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 39102 - JERSEY TWP (LIC county)

Location: DISTRICT 05

.6 MI E OF FRANKLIN C LIN

Insp Resp B:

Inspector

Beedy,Matthew

Inspection Date 03/22/2023

Reviewer Zigan,Curtis

## **Inspector Comments - Deck and Approach**

### **Deck**

#### **Bridge Wearing Surface (SF)**

2019 - HMWM is currently being placed Approximately 10% of the wearing surface has been patched including the left rear shoulder, right rear shoulder, left forward shoulder, and right forward shoulder and traveled lane (800 SF, CS2). There is an 18" x 18" patch in the inside lane at the right forward end (2 SF, CS2).

#### **Deck Drainage (EA)**

Right forward end exhibits large area of ponding on the approach slab on the shoulder not extending onto deck or traveled lane (CS2).

### **Approach**

#### **Approach Wearing Surface (EA)**

2019- Corrective action is taking place at time of inspection by contractors Both forward and rear approach wearing surfaces exhibit longitudinal sealing along the inside lane and exhibit transverse cracks in the outside shoulder. The rear approach wearing surface exhibits minor map cracking and deterioration with transverse and longitudinal cracking at the approach slab with open potholes (CS3). The forward approach wearing surface exhibits minor map cracking along the inside lane and transverse and longitudinal cracking in driving lanes (CS2). Both the rear left and forward left ends along the curbs have settled with sinkholes between the curb and parapet joints that is letting water run under curbs and eroding the embankments and undermining the asphalt pavement along the curbs

#### **Approach Slab (SF)**

2019 HMWM is currently being placed Right rear parapet on approach slab has minor impact damage (6' long horizontal gauge with exposed secure aggregate) (6 SF, CS2).

#### **Approach Embankment (EA)**

Repairs have been completed to correct this issue - Left forward embankment exhibits erosion around wingwall exposing the bottom and underside of the wingwall. The poured concrete protection has failed. (CS2). Left forward and left rear curbs exhibit minor settling with moderate erosion both curbs are cracked and spalled at parapets allowing water to erode the embankment

## **Inspector Comments - General Appraisal**

### **Superstructure**

#### **Diaphragm/X-Frames (EA)**



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Forward diaphragm exhibits a minor spall at the left and right end (2,CS2). Water leaking along the horizontal joint between diaphragms and abutment wall at each corner causing stains running down the face of each mse wall.

**Utilities (LF)**

There is electrical conduit in both of the bridge rails. The conduits are exposed at the ends of the rails.

**Substructure**

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Scour Critical**

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### Bridge Inspection Report

### Pictures



PHOTO 1

Description



PHOTO 2

Description

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### Bridge Inspection Report

### Pictures



PHOTO 3  
Description



PHOTO 4  
Description



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### Bridge Inspection Report

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PHOTO 5  
Description



PHOTO 6  
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### Bridge Inspection Report

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PHOTO 7

Description



PHOTO 8

Description

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### Bridge Inspection Report

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PHOTO 9  
Description



PHOTO 10  
Description



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### Bridge Inspection Report

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PHOTO 11

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PHOTO 12

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### Bridge Inspection Report

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PHOTO 13

Description



PHOTO 14

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### Bridge Inspection Report

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PHOTO 15

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PHOTO 16

Description

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**Bridge Inspection Report**

**Pictures**



PHOTO 17

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PHOTO 18

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### Bridge Inspection Report

### Pictures



PHOTO 19

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PHOTO 20

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### Bridge Inspection Report

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PHOTO 21

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PHOTO 22

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**Bridge Inspection Report**

**Pictures**



PHOTO 23

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PHOTO 24

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### Bridge Inspection Report

### Pictures



PHOTO 25

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PHOTO 26

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Facility Carried: SR 161 WB

### Bridge Inspection Report

### Pictures



PHOTO 27

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PHOTO 28

Description

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Structure Number: 4505514  
Facility Carried: SR 161 WB

### Bridge Inspection Report

### Pictures



PHOTO 29

Description



PHOTO 30

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**Bridge Inspection Report**

**Pictures**



PHOTO 31

Description