

Inspector: Osting,Matthew  
 Inspection Date: 05/29/2024

Structure Number: 2400553  
 Facility Carried: USR 35

## Ohio Bridge Inspection Summary Report

**FAY-00035-1666L (2400553)**

2: District 78316 - UNION TWP (FAY county)  
 District 06

5A: Inventory Route 1 00035

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 06

7: Facility On USR 35  
 6: Feature Ints PAINT CREEK & CR 58  
 9: Location 1.3 MI E OF SR 41  
 Lat, Lon 39.5128211499213 , -83.4186342603763

Condition		Structure Type	
<b>58: Deck</b>	<b>7 - Good Condition</b>	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
<b>59: Superstructure</b>	<b>4 - Poor Condition</b>	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	9 - Excellent	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>7 - Good Condition</b>	408: Composite Deck	N - Non-composite Construction
<b>61: Channel</b>	<b>8</b>	414A Joint Type 1	B - Polymer modified expansion device
61.01 Scour	7 - Good	414B: Joint Type 2	N - None
<b>62: Culverts</b>	<b>N - Not Applicable</b>	108A: Wearing Surface	6 - Bituminous
<b>67.01 GA</b>	<b>4</b>		N- Not Applicable

Appraisal			
Sufficiency Rating	71.1	SD/FO 1 - SD	
36: Rail, Tr, Gd, Term Std	0	1	1 N
72: Approach Alignment	8 - Equal to present desirable criteria		
113: Scour Critical	8 - Stable for scour conditions		
71: Waterway Adequacy	8 - Bridge Above Approaches		

422: WS Date	10/11/2004
423: WS Thick (in)	3.8
482: Protective Coating	5 - Paint System OZEU
483: PCS Date	08/01/2023
453: Bearing Type 1	2 - Rockers & Bolsters
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
533: Foundn: Abut Rear	1 - Steel H Piles (Other Size)
536: Foundn: Pier 1	1 - Steel H Piles (Other size)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	104.0
49: Structure Length (ft)	272.5
52: Deck Width, Out-To-Out (ft)	42.0
424: Deck Area (sf)	11445
32: Appr Roadway Width (ft)	36.0
51: Road Width, Curb-Curb (ft)	38.5
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)	14.41
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	1973 / 0000
42A: Service On	1 - Highway
42B: Service Under	6 - Highway - waterway
28A: Lanes on	02
28B: Lanes Under	02
19: Bypass Length	1
29: ADT	6361
109: % Trucks (%)	38

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 (%)	120
704: Analysis Date	06/03/2024
63: Analysis Method	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.

Inspections			
		Months	
90: Routine Insp.		12	05/28/2024
92A: FCM Insp.	N	0	
92B: Dive Insp.	N	0	
92C: Special Insp.	N	12	
92D: UBIT Insp.	Y	24	03/19/2024
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
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	11445	sq. ft.	11440	0	5	0
CS3-FLOOR-FWD RIGHT BAY #4 5X3 AREA SPALLED, DELAM. REBAR EXPOSED.							
510-Wearing Surfaces		10492	sq. ft.	10492	0	0	0
<b>107-Steel Open Girder/Beam</b>	3 - Mod.	1363	ft.	682	650	22	9
New PCS 8/23. CS3-BEAM ENDS-FWD RIGHT BEAM AND REAR LEFT BEAM MINOR SECTION LOSS. 2024 bridge hit CS3 B1 over SB county road traffic has been hit, deflection at point of impact is 3/4" and lower flange bent up 1/2"(2 ft) CS4 B1 cracks in web at stiffners that have cross frames bolted to 3ft. B3 Hit with track hoe deflection is 5'1/2" at point of impact and bottom flange bent down 3" B3 cracks in the web where stiffners that have cross frames bolted to (6 ft)							
515-Steel Protective Coating		16350	sq. ft.	16350	0	0	0
New PCS 8/23.							
<b>205-Reinforced Concrete Column</b>	3 - Mod.	4	each	4	0	0	0
<b>210-Reinforced Concrete Pier Wall</b>	3 - Mod.	42	ft.	42	0	0	0
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	84	ft.	64	20	0	0
CS2-FWD ABUTMENT LT MINOR VERTICAL CRACKS. CS2-REAR ABUTMENT BAY#3 DELAM.SPALLED, REBAR EXPOSED. CONCRETE LAYING ON TOP AT FWD AND REAR FROM PATCH WORK.							
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	42	ft.	42	0	0	0
<b>301-Pourable Joint Seal</b>	3 - Mod.	84	ft.	0	0	60	24
CS3-EX. JOINTS-FWD AND REAR MODERATE LEAKAGE, DEBONDING. REAR SLIGHT DIP. CS4-EX. JOINT-REAR LEFT FREE FLOW OF WATER.							
<b>311-Movable Bearing</b>	3 - Mod.	15	each	9	0	6	0
New PCS 8/23. CS3-ROCKERS-FWD AND REAR ABUTMENTS- SECTION LOSS.							
<b>313-Fixed Bearing</b>	3 - Mod.	5	each	5	0	0	0
New PCS 8/23.							
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	1800	sq. ft.	1800	0	0	0
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	545	ft.	445	100	0	0
CS2-MINOR VERTICAL CRACKS BOTH SIDES. 2021-APPEARS REPAIR WORK WAS DONE ON RAILING.							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>815-Drainage</b>	3 - Mod.	12	each	0	8	4	0
New PCS 8/23. CS2-SECTION LOSS.							
<b>830-Abutment Backwall</b>	3 - Mod.	84	ft.	0	72	6	6
CS2-REAR LEFT SPALL, DELAM. CS2-REAR RIGHT BAY#4 SPALLED, DELAM. REAR TOP RIGHT CORNER SPALLED. CS3- BAY 2 HAS LARGE SPALL WITH 7 VERTICAL REBAR EXPOSED WITH SECTION LOSS.							

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ODOT District: District 06

**FAY-00035-1666L\_(2400553)**

Date Built: 07/01/1973

Major Maint: 01 - State Highway Agency

Facility Carried: USR 35

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: PAINT CREEK & CR 58

Traffic Under: 6 - Highway - waterway

Insp. 01 - State Highway Agency

FIPS Code: 78316 - UNION TWP (FAY county)

Location: DISTRICT 06

1.3 MI E OF SR 41

Resp A:

Inspector

Osting,Matthew

Inspection Date 05/29/2024

Reviewer Peddicord,Tim

Insp

Resp B:

**Inspector Comments - Deck and Approach**

**Deck**

**Floor/Slab (SF)**

2021-REAR RIGHT CORNER SPALLED, DELAM. APPEARS REPAIR PATCH WORK DONE ON OTHER CORNERS.

REAR CORNERS SPALLED W/ RE-BAR EXP BAY 3/4 SPALLED BAY 4 EXPOSED REBAR.

**Bridge Wearing Surface (SF)**

2017: LONG. CRACKS OVER BEAMS ON WEARING SURFACE. RUTTING, OPEN CRACKS,DELAMINATED ASPHALT THRU OUT. . POTHOLES DOWN C/L. 2018: DRIVING LANES HAVE BEEN PAVED SINCE PREVIOUS INSPECTION PROVIDING A SMOOTH RIDING SURFACE. SHOULDERS ARE STILL CRACKING AND BREAKING UP. RUTTING ALREADY EXISTS AND LARGE TRANSVERSE CRACKING OVER EACH JOINT.

**Bridge Railing (LF)**

2021-APPEARS PATCH REPAIR WORK WAS DONE.

RAILING=SPALLS AT END AND ALONG BOTTOM LT. LT PARAPET SPALLED FOR 60 FT STARTING AT REAR JOINT. HEAVY DEBRIS ALONG BOTTOM. LT SPALLED AT JNTS.

**Deck Drainage (EA)**

RUSTED AT BOTTOMS, CLOGGED WITH DEBRIS.

**Expansion Joint (LF)**

2021-RETROFIT WITH POLYMER/ASPHALT. FWD LT PATCHY,ROUGH.

EXPANSION JOINTS=PAVED OVER PAVEMENT IS CRACKS ON BOTH, PATCHY ROUGH @ FWD. RT. RUTTED ON BOTH. 2020 - LEAKING FORWARD AND REAR.

**Approach**

**Approach Wearing Surface (EA)**

OPEN CRACKS.

**Approach Slab (SF)**

CRACKS

**Approach Embankment (EA)**

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2021-WASHOUT LT. FWD AND REAR,2FT DEEP BEHIND APPR. RAIL. 59.EMBANKMENT=WASHOUT LT. BOTH FWD AND REAR. 2FT DEEP BEHIND APPROACH GUARDRAIL AT FWD. RT.

## **Approach Guardrail**

### **Inspector Comments - General Appraisal**

#### **Superstructure**

##### **Beams/Girders (LF)**

2021-REAR AND FWD OUTSIDE BEAMS HEAVY PACK RUST AND SECTION LOSS.

2020 - BEAM 1 REAR HAS 33% SECTION LOSS TO BOTTOM FLANGE OVER BEARING. BEAM ENDS RUSTED FWD AND REAR. BOTTOM FLANGE RUSTED.

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

SURFACE RUSTING AT DOWNSPOUTS,LT REAR,CORRODED THROUGH. BROKEN CROSS FRAME LEFT REAR.

##### **Bearing Devices (EA)**

2021-FWD AND REAR RUSTED,PACK RUST, MINOR MOVEMENT RESTRICTION. DEBRIS LAYING AROUND A FEW ROCKERS.

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RUSTING W/ FLAKING SEC. LOSS. .2 BEARINGS ON FWD ABUT AND 3 BEARINGS ON REAR HAVE PACK RUST.

### **Protective Coating System (LF)**

PCS=PEELING,FADED,SPOT RUSTING,PAINT OVER RED LEAD, CHALKY, PITTING.HEAVY CORROSION.

### **Substructure**

#### **Abutment Walls (LF)**

REAR 10% UNSOUND.DELAMS. 1 LARGE SPALL WITH EXPOSED REBAR .

#### **Pier Walls (LF)**

WALL IN WATER.

#### **Backwalls (LF)**

CRACKS,SMALL SPALL FWD. LG. AREAS OF DELAM. MAJORITY OF BOTH BACKWALLS ARE DELAMINATED. 90% OF THE REAR AND 50% OF THE FWD BACKWALLS ARE UNSOUND. 2 SPALLS WITH EXPOSED REBAR ON REAR.

#### **Substructure Scour (EA)**

2021-CHECKED FOR SCOUR @ PIER 2. NO NOTED ISSUES.

2020 - CHECKED FOR SCOUR @ PIER 2. NO NOTED ISSUES.

#### **Slope Protection (EA)**

LT REAR AND FWD WASHED ONE LOCATION EACH

### **Culvert**

### **Inspector Comments - Waterway**

#### **Waterway Adequacy**

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**Channel**

**Scour Critical**

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### Bridge Inspection Report

### Pictures

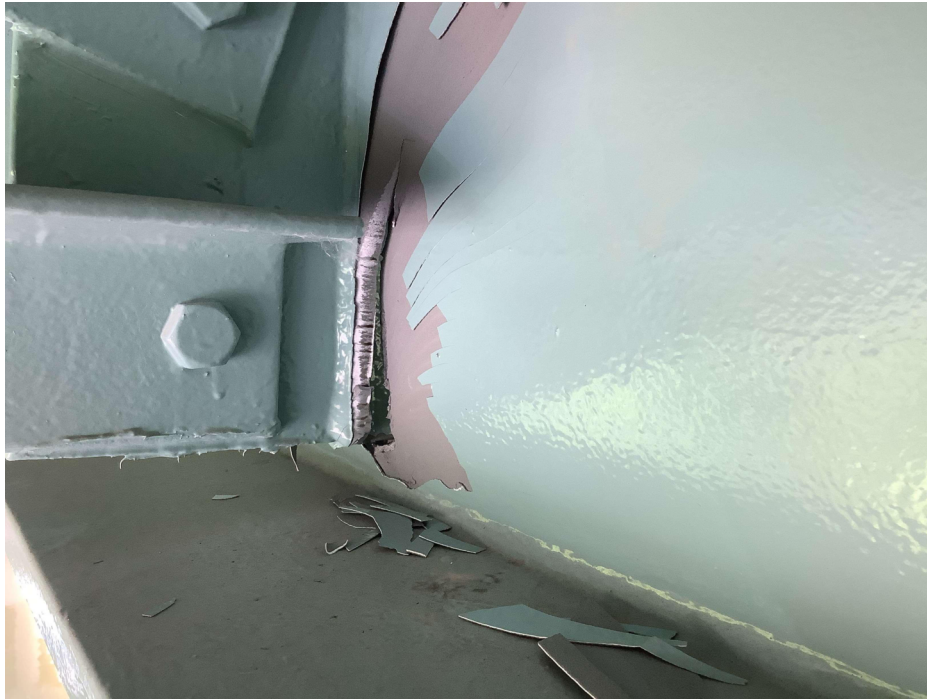


PHOTO 1

Description 2024 bridge hit B3



PHOTO 2

Description 2024 bridge hit B3



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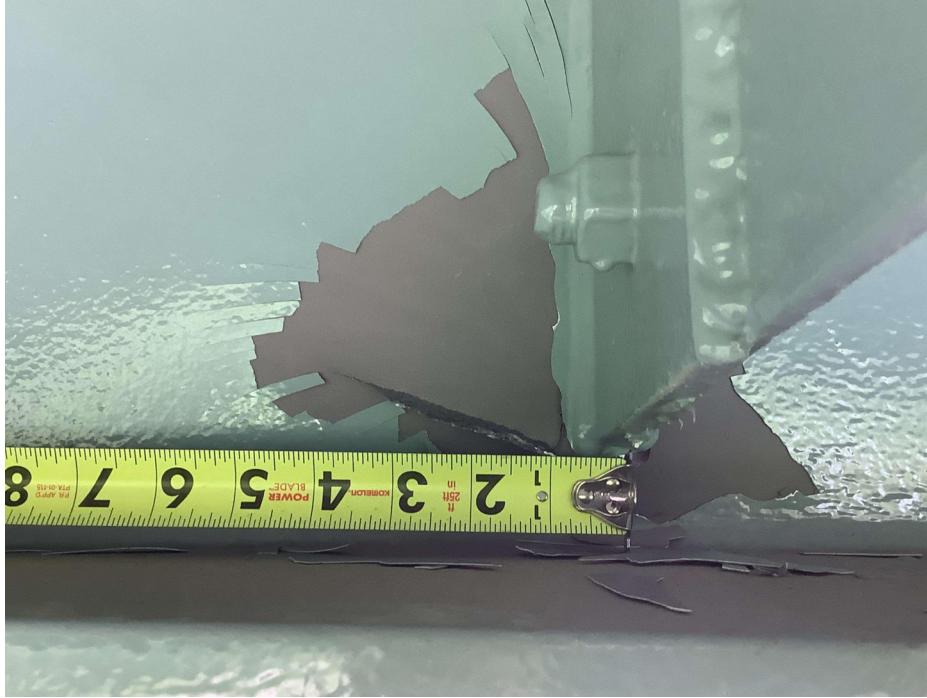


PHOTO 3

Description 2024 Bridge hit B3



PHOTO 4

Description 2024 Bridge hit B3

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### Bridge Inspection Report

### Pictures



PHOTO 5

Description 2024 B1 xframe 4



PHOTO 6

Description 2024 B1 xframe 3

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### Bridge Inspection Report

### Pictures



PHOTO 7

Description 2024 xframe3



PHOTO 8

Description 2024 B1 xframe 2

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**Bridge Inspection Report**

**Pictures**



PHOTO 9

Description 2024 B1 xframe 2