

Inspector: Beedy,Matthew  
 Inspection Date: 10/19/2023

Structure Number: 4501705  
 Facility Carried: SR'S 37 AND 161

## Ohio Bridge Inspection Summary Report

**LIC-00037-1225R (4501705)**

2: District 69456 - SAINT ALBANS TWP (LIC county)  
 ict  
 05

5A: Inventory Route 1 00037

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'S 37 AND 161  
 6: Feature Ints EB 37&161 OVER MOOTS RUN  
 9: Location .2 MI E OF JCT SR 161  
 Lat, Lon 40.072965 , -82.594672

Condition		Structure Type	
<b>58: Deck</b>	<b>8 - Very Good Condition</b>	43: Bridge Type	5 - Prestressed concrete
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>9 - Excellent Condition</b>	45: Spans Main / Approach	3 / 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type	1 - Concrete Cast-in-Place
<b>60: Substructure</b>	<b>9 - Excellent Condition</b>	408: Composite Deck	Y - Composite Construction
<b>61: Channel</b>	<b>7</b>	414A Joint Type 1	N - None
<b>61.01 Scour</b>	<b>7 - Good</b>	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>9</b>		

Appraisal			
Sufficiency Rating	98.5	SD/FO	0 - ND
36: Rail, Tr, Gd, Term Std	1	1	1 1
72: Approach Alignment	6 - Equal to present minimum criteria		
113: Scour Critical	8 - Stable for scour conditions		
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations		

422: WS Date	08/01/2009
423: WS Thick (in)	1.0
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	C - Elastomeric (laminated)
455: Bearing Type 2	N - None
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	3 - Drilled Shafts
539: Foundn: Pier 2	N - None (Such as most Culverts)

Geometric	
48: Max Span Length (ft)	79.2
49: Structure Length (ft)	238.8
52: Deck Width, Out-To-Out (ft)	59.0
424: Deck Area (sf)	14089.2
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)	29
33: Bridge Median	0 - No median
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

Age and Service	
27: Year Built/ 106 Rehab	2009 / 0000
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	1
29: ADT	16079
109: % Trucks (%)	9

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	07/01/2010
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	<i>Months</i>	
90: Routine Insp.	24	10/19/2023
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	

Inspector: Beedy,Matthew  
 Inspection Date: 10/19/2023

Structure Number: 4501705  
 Facility Carried: SR'S 37 AND 161

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
<b>12-Reinforced Concrete Deck</b>	3 - Mod.	14089	sq. ft.	13869	220	0	0
	Floor/Slab (SF) Areas of transverse leaching cracks in all 3 spans estimate 60SF CS,2 Edge of Floor/Slab (LF) Vertical Cracking in random locations both right and left edges. estimate 160 SF CS,2						
<b>805-Wearing Surface - Monolithic Concrete</b>		13373	sq. ft.	13373	0	0	0
	Bridge Wearing Surface (SF) Locations of minor cracks (CS 2) perpendicular to forward deck joint near right edge line (15 SF), left shoulder (10 SF), and left edge line (6 SF). Scattered areas of longitudinal cracking (100 SF,CS2) 2019- HMWM placed in 2019 this brings CS2 back into CS1.						
<b>109-Prestressed Concrete Open Girder/Beam</b>	3 - Mod.	1610	ft.	1610	0	0	0
<b>205-Reinforced Concrete Column</b>	3 - Mod.	8	each	8	0	0	0
<b>215-Reinforced Concrete Abutment</b>	3 - Mod.	135	ft.	130	5	0	0
	Forward abutment exhibits multiple locations of minor vertical cracks (5', CS 2). Appears water is leaking through the expanded polystyrene filler at both abutments						
<b>234-Reinforced Concrete Pier Cap</b>	3 - Mod.	132	ft.	132	0	0	0
<b>310-Elastomeric Bearing</b>	3 - Mod.	28	each	28	0	0	0
<b>312-Enclosed/Concealed Bearing</b>	3 - Mod.	14	each	14	0	0	0
<b>321-Reinforced Concrete Approach Slab</b>	3 - Mod.	2950	sq. ft.	2911	39	0	0
	2018- Forward approach slab exhibits minor crack perpendicular to deck joint on the left lane (14', CS 2). Right rear approach slab parapet exhibits multiple minor cracks at guardrail transition. (25, CS 2) 2019- HMWM placed in 2019						
<b>331-Reinforced Concrete Bridge Railing</b>	3 - Mod.	478	ft.	475	3	0	0
	Multiple locations of minor vertical cracks on left railing (3', CS 2).						
<b>815-Drainage</b>	3 - Mod.	2	each	2	0	0	0

**Inspector:** Beedy,Matthew

**Structure Number:** 4501705

**Inspection Date:** 10/19/2023

**Facility Carried:** SR'S 37 AND 161

ODOT District: District 05

**LIC-00037-1225R\_(4501705)**

Date Built: 08/01/2009

Major Maint: 01 - State Highway Agency

Facility Carried: SR'S 37 AND 161

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: EB 37&161 OVER MOOTS  
RUN

Traffic Under: 5 - Waterway

Insp. 01 - State Highway Agency

FIPS Code: 69456 - SAINT ALBANS TWP (LIC county)

Location: DISTRICT 05

.2 MI E OF JCT SR 161

Resp A:

Inspector

Beedy,Matthew

Inspection Date 10/19/2023

Reviewer Zigan,Curtis

Insp

Resp B:

**Inspector Comments - Deck and Approach**

**Deck**

**Deck Drainage (EA)**

Previous inspections noted water ponding along both parapets.

**Approach**

**Approach Embankment (EA)**

Right rear exhibits minor erosion below approach slab (1, CS 2). Right forward exhibits minor erosion below approach slab and moderate erosion away from bridge at end of curb (1, CS 2).

**Approach Guardrail (EA)**

Minor scrapes

**Inspector Comments - General Appraisal**

**Superstructure**

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

Minor cracks forming on the concrete diaphragms

**Substructure**

**Wingwalls (EA)**

Right forward exhibits minor spall at end of wingwall (1, CS 2).

**Slope Protection (EA)**

Extreme vegetation growth

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Inspector:** Beedy, Matthew  
**Inspection Date:** 10/19/2023

**Structure Number:** 4501705  
**Facility Carried:** SR'S 37 AND 161

### **Channel**

#### **Channel Alignment (LF)**

Stream turns at right rear corner of bridge and is causing steep erosion of channel banks (40', CS 2). Dump rock has been added for protection. 2021 Erosion has increased causing erosion. Email was sent to Bridge Engineer and District Roadway Services for repairs. 2022 Dump rock added along channel

#### **Channel Protection (LF)**

Steep erosion of channel banks (CS 2) near right rear corner (40') and near pier 2 (60'). Some corrective work has been done with dump rock added.

### **Scour Critical**

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 1  
Description



PHOTO 2  
Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 3

Description



PHOTO 4

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

Bridge Inspection Report

Pictures



PHOTO 5  
Description



PHOTO 6  
Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 7

Description



PHOTO 8

Description



Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 9

Description



PHOTO 10

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 11

Description



PHOTO 12

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 13

Description



PHOTO 14

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 15

Description



PHOTO 16

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 17

Description



PHOTO 18

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 19

Description



PHOTO 20

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 21

Description



PHOTO 22

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 23

Description

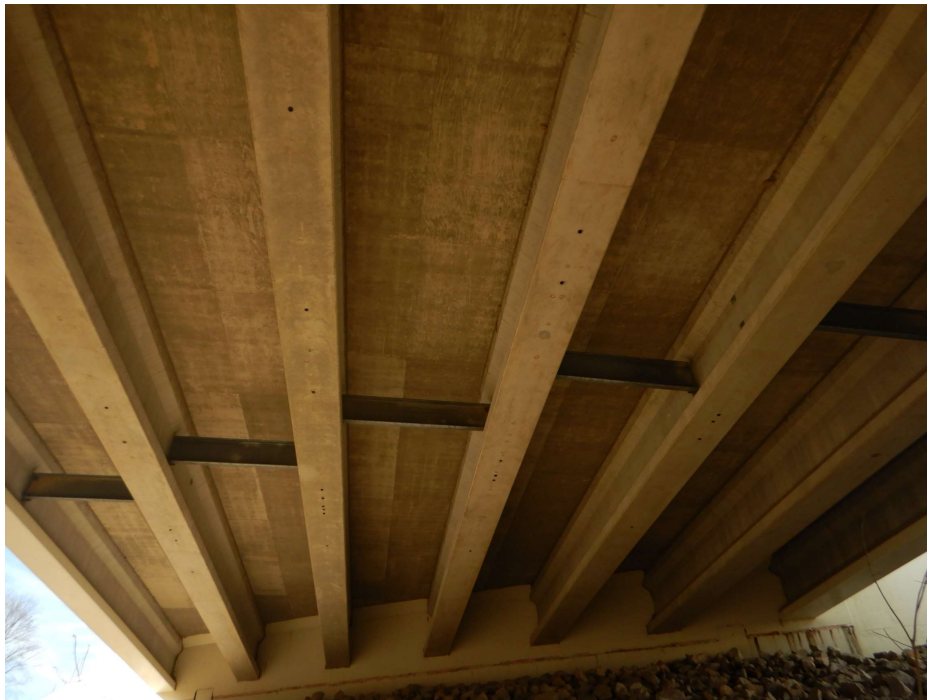


PHOTO 24

Description



Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 25  
Description



PHOTO 26  
Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

**Bridge Inspection Report**

**Pictures**



PHOTO 27

Description



PHOTO 28

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 29

Description



PHOTO 30

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 31

Description



PHOTO 32

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 33

Description



PHOTO 34

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures

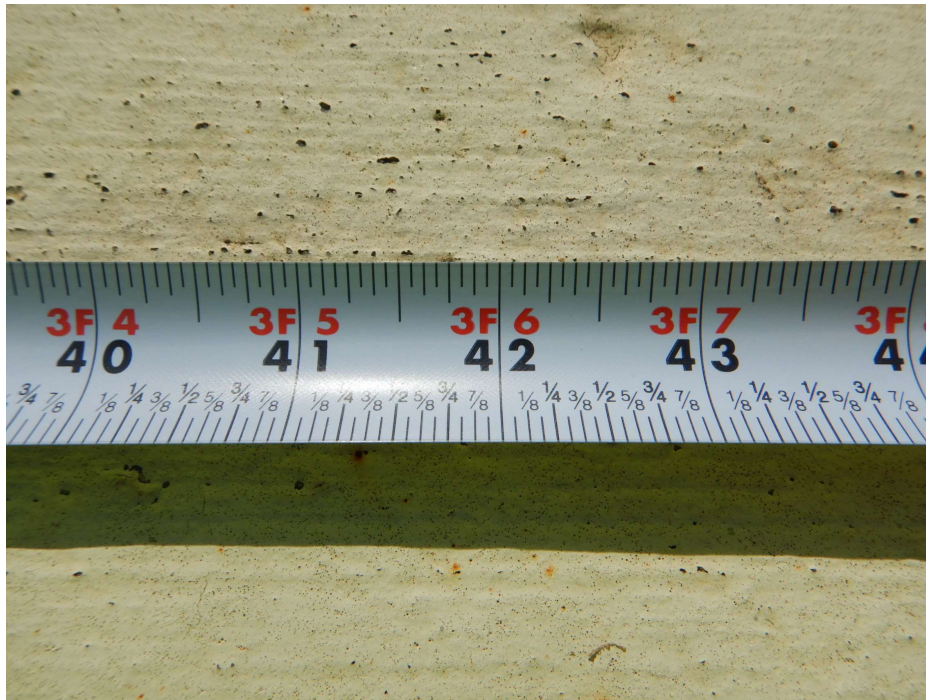


PHOTO 35

Description



PHOTO 36

Description

Inspector: Matthew Beedy  
Inspection Date: 10/19/2023

Structure Number: 4501705  
Facility Carried: SR'S 37 AND 161

### Bridge Inspection Report

### Pictures



PHOTO 37

Description