

Inspector: Persanyi,Andrea  
 Inspection Date: 08/04/2022

Structure Number: 1804172  
 Facility Carried: IR 71

Bridge Inspection Report

**Ohio Bridge Inspection Summary Report**

**CUY-00071-0611 (1804172)**

2: District 49644 - MIDDLEBURGH HTS (CUY county)  
 District 12

5A: Inventory Route 1 00071

21: Major Maint A/B 01 - State Highway Agency /  
 225 Routine Main A/B 11 - State Park, Forest, or /  
 Reservation Agency  
 221 Inspection A/B 01 - State Highway Agency /  
 220: Inv. Location DISTRICT 12

7: Facility On IR 71  
 6: Feature Ints unnamed stream  
 9: Location 450ft N of Brookside pkwy  
 Lat, Lon 41.3634976796141 , -81.8212659911777

Condition	
<b>58: Deck</b>	<b>N - Not Applicable</b>
58.01 Wearing Surface	N - Not Applicable
58.02 Joint	N - Not Applicable
<b>59: Superstructure</b>	<b>N - Not Applicable</b>
59.01 Paint & PCS	N - Not Applicable
<b>60: Substructure</b>	<b>N - Not Applicable</b>
<b>61: Channel</b>	<b>5</b>
61.01 Scour	7 - Good
<b>62: Culverts</b>	<b>4 - Large spalls, heavy scaling, wide cracks</b>
<b>67.01 GA</b>	<b>4</b>

Structure Type	
43: Bridge Type	3 - Steel
	19 - Culvert (includes frame culverts)
	N - Not Applicable
45: Spans Main / Approach	1 / 0
107: Deck Type	N - Not Applicable
408: Composite Deck	N - Non-composite Construction
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	N - NA
	N - Not Applicable

Appraisal	
Sufficiency Rating	43.0 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	N N N N
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	6 - Not yet evaluated for scour
71: Waterway Adequacy	9 - Bridge Above Flood Water Elevations

422: WS Date	
423: WS Thick (in)	0
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	N - None (Such as most Culverts)
533: Foundn: Abut Rear	N - None (such as most Culverts)
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)	12.0
49: Structure Length (ft)	436
52: Deck Width, Out-To-Out (ft)	0.0
424: Deck Area (sf)	54936
32: Appr Roadway Width (ft)	126.0
51: Road Width, Curb-Curb (ft)	0.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	41
33: Bridge Median	1 - Open median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	99
578: Culvert Length (ft)	436

Age and Service	
27: Year Built/ 106 Rehab	1966 / 0000
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	06
28B: Lanes Under	00
19: Bypass Length	2
29: ADT	105503
109: % Trucks (%)	3

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	05/18/2016
63: Analysis Method	6 - Load Factor (LF) rating reported by

Inspections		
	Months	
90: Routine Insp.	12	08/04/2022
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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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>240-Steel Culvert</b>	3 - Mod.	436	ft.	0	81	140	215
<p>CS2- Minor leakage at some seams. Rusting areas. Slight dip to pipe approximately 100' in from inlet.</p> <p>CS3- Rusting section loss thru out water line.</p> <p>CS4- Many rusting thru holes concentrated along bolt lines at 5:00 and 7:00 from inlet to midway thru culvert. Only small portions of CMP rib is connecting the invert between 5:00 and 7:00. Some areas of invert 75% rusted away.</p>							
<b>835-Culvert End Treatment</b>	3 - Mod.	2	each	0	2	0	0
<p>CS2- Outlet headway has minor spalls and small area of breakup below the pipe. Cracks to north half of inlet headwall.</p>							
<b>845-Roadway Over Structure</b>	3 - Mod.	2	each	2	0	0	0
<p>Minor cracks.</p>							

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ODOT District: District 12  
Major Maint: 01 - State Highway Agency  
Routine Maint: 11 - State Park, Forest, or Reservation Agency  
FIPS Code: 49644 - MIDDLEBURGH HTS (CUY county)

Facility Carried: IR 71  
Feature Inters: unnamed stream  
Location: DISTRICT 12

450ft N of Brookside pkwy

Inspector Persanyi,Andrea  
Inspection Date 08/04/2022  
Reviewer Seif,Youssef

Date Built: 07/01/1966  
Rehab Date:  
Insp: 01 - State Highway Agency  
Resp A:  
Insp  
Resp B:

**Inspector Comments - Deck and Approach**

**Deck**

**Approach**

**Approach Wearing Surface**

**Inspector Comments - General Appraisal**

**Superstructure**

**Substructure**

**Culvert**

**Inspector Comments - Waterway**

**Waterway Adequacy**

**Channel**

**Channel Alignment**

Stream does a 75° bend at approximately 50' upstream of inlet.

**Channel Protection**

Concrete slab cracked at inlet. Some stone has washed away at outlet.

**Channel Hydraulic Opening**

Rocks & debris block <5%.

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**Scour Critical**

**Scour**

2" of inlet toe exposed. Outlet has as much as 18" scour hole 3' down stream from outlet toe.

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**Pictures**