

Ohio Bridge Inspection Summary Report

CUY-00071-06.11 (1804172)

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

5A: Inventory Route 1 00071
 7: Facility On IR 71
 6: Feature Ints unnamed stream
 9: Location 450ft N of Brookside pkwy
 Lat, Lon 41.3634976796141 , -81.8212659911777

Condition

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

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 rating factor (RF) method using MS18 loading.

Inspections

90: Routine Insp. *Months* 12 08/03/2021
 92A: FCM Insp. N
 92B: Dive Insp. N
 92C: Special Insp. N
 92D: UBIT Insp. N
 92E: Drone Insp.
 Inspector Banaszak, Ken

Inspector: Ken Banaszak
 Inspection Date: 08/03/2021

Structure Number: 1804172
 Facility Carried: IR 71

Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240 - Steel Culvert	3 - Mod.	436	ft.	0	140	81	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>						
835 - Culvert End Treatment	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>						
845 - Roadway Over Structure	3 - Mod.	2	each	2	0	0	0
	<p>Minor cracks.</p>						

ODOT District: 12

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Date Built: 07/01/1966

Major Maint: 01 - State Highway Agency

Facility Carried: IR 71

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 11 - State Park, Forest, or
Reservation Agency

Feature Inters: unnamed stream

Traffic Under: 5 - Waterway

Insp: 01 - State Highway Agency

FIPS Code: 49644 - MIDDLEBURGH HTS (CUY county)

Location: DISTRICT 12

450ft N of Brookside pkwy

Resp A:

Insp

Resp B:

Inspector

Banaszak, Ken

Inspection Date 08/03/2021

Reviewer Seif, Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

New pavement

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%.

Scour Critical

Scour

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

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Pictures