Ohio Bridge Inspection Summary Report — CUY-00480-17.080_(1810005)

2: District 12 09274 - BROOKLYN HEIGHTS (CUY county)
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 12

5A: Inventory Route 1 00480
7: Facility On IR 480
6: Feature Ints Creek
9: Location .29 mi E of lancaster

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	**6**
61.01 Scour	**7 - Good**
62: Culverts	**5 - Moderate to major deterioration**
67.01 GA	**5**

Appraisal

Sufficiency Rating	59.0 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	N N 1 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

Geometric

48: Max Span Length (ft)	11.3
49: Structure Length (ft)	11.3
52: Deck Width, Out-To-Out (ft)	0.0
424: Deck Area (sf)	2994.5
32: Appr Roadway Width (ft)	265.0
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)	46
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)	0
578: Culvert Length (ft)	522

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	
63: Analysis Method	5 - No rating analysis or evaluation performed

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	
414A Joint Type 1	N - None
414B: Joint Type 2	3 - Compression Seal
108A: Wearing Surface	N - NA
	N- Not Applicable
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)

Age and Service

27: Year Built/ 106 Rehab	1977 / 0000
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	10
28B: Lanes Under	00
19: Bypass Length	6
29: ADT	146531
109: % Trucks (%)	5

Inspections

	Months	
90: Routine Insp.	12	07/28/2021
92A: FCM Insp.	N	
92B: Dive Insp.		
92C: Special Insp.		
92D: UBIT Insp.		
92E: Drone Insp.		

Inspector Gerstenslager,Michael

Inspector: Michael Gerstenslager **Structure Number:** 1810005

Inspection Date: 07/28/2021 **Facility Carried:** IR 480

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.	522	ft.	0	451	16	55
	Areas of rusting through holes as large as 1.5' to invert throughout (CS 4). 16" rusting through hole at 5:00 at outlet (CS 4). Four rusting through holes as large as 4" at 5:00 seam 350' from outlet (CS 4). Pin hole size rusting through holes scattered throughout that leak water and have rust colored efflorescence (CS 4). 9.5' section of tears as long as 3.5" along 9:00 seam approximately 75' from inlet (CS 3). Damage / tear at 12:00, 100' from outlet (CS 3). 6' section of panel 350' from outlet has missing and cocked fasteners (CS 3). Rusting section loss along invert throughout, heavier at inlet (CS 2). A few missing fasteners throughout (CS 2). Areas of leaking water with efflorescence at some seams (CS 2).						
835 - Culvert End Treatment	3 - Mod.	1	each	0	1	0	0
	Left half of outlet headwall is crumbling and tips away from culvert pipe (CS 2). Right half has large area of concrete deterioration (CS 2).						
845 - Roadway Over Structure	3 - Mod.	2	each	0	2	0	0
	Cracks (CS 2).						

CUY-00480-17.080_(1810005)

ODOT District:	12			Date Built:	07/01/1977
Major Maint:	01 - State Highway Agency	Facility Carried:	IR 480	Traffic On:	1 - Highway
Routine Maint:	01 - State Highway Agency	Feature Inters:	Creek	Traffic Under:	5 - Waterway
FIPS Code:	09274 - BROOKLYN HEIGHTS (CUY county)	Location:	DISTRICT 12 .29 mi E of lancaster	Rehab Date:	
				Insp. Resp A:	01 - State Highway Agency
				Insp Resp B:	
Inspector	Gerstenslager,Michael	Inspection Date	07/28/2021	Reviewer	Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

Cracks.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Culvert Shape

Slight elliptical shape at outlet.

Culvert Scour (EA)

Undermining of outlet channel protection.

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Protection

Outlet channel protection is thru cracked as wide as 1.5" in two locations (concrete is in three pieces but still in place).

Channel Hydraulic Opening

Minor debris blocks <1%

Scour Critical