

Inspector: Miller,Jason

Inspection Date: 06/16/2023

Structure Number: 1814835

Facility Carried: USR 422

Ohio Bridge Inspection Summary Report

CUY-00422-14.71 (1814835)

2: District 72928 - SOLON (CUY county)
District 12

5A: Inventory Route 1 00422

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

7: Facility On USR 422
6: Feature Ints unnamed creek
9: Location 50 ft east of miles rd.
Lat, Lon 41.424733 ,-81.485347

Condition	Structure Type
-----------	----------------

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

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

Appraisal

Sufficiency Rating 59.0 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std N N 1 1
72: Approach Alignment 9 - Superior 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) 14.0
49: Structure Length (ft) 20.8
52: Deck Width, Out-To-Out (ft) 0.0
424: Deck Area (sf) 1664
32: Appr Roadway Width (ft) 80.0
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) 39
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) 396

Age and Service

27: Year Built/ 106 Rehab 1975 / 0000
42A: Service On 1 - Highway
42B: Service Under 5 - Waterway
28A: Lanes on 06
28B: Lanes Under 00
19: Bypass Length 6
29: ADT 75307
109: % Trucks (%) 5

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 01/05/2016
63: Analysis Method 0 - Field evaluation and documented engineering judgment

Inspections

90: Routine Insp. 12 Months 06/16/2023
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 Miller,Jason

Inspector: Miller, Jason
 Inspection Date: 06/16/2023

Structure Number: 1814835
 Facility Carried: USR 422

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
241-Reinforced Concrete Culvert	3 - Mod.	396	ft.	0	180	104	112
<p>Culvert consists of 49 pipe segments (78" diameter x 8' long) with two 2' connectors.</p> <p>CS2- Cracks. Small spalls.</p> <p>CS3- Some small areas of shallow exposed wire mesh. Concrete deterioration and spalling along water line & to invert thru out. Spalls and delams. Rust-stained cracks. Heavy efflorescence build up at some joints.</p> <p>CS4- Entire segment's invert is deteriorated with severed wire mesh to 14 segments.</p>							
835-Culvert End Treatment	3 - Mod.	2	each	1	1	0	0
<p>CS2- Outlet endwalls tipped out as much as 1".</p>							
845-Roadway Over Structure	3 - Mod.	1	each	1	0	0	0
<p>Culvert is under slope protection for bridges above it.</p>							

Inspector: Miller,Jason

Structure Number: 1814835

Inspection Date: 06/16/2023

Facility Carried: USR 422

ODOT District: District 12

CUY-00422-14.71_(1814835)

Date Built: 07/01/1975

Major Maint: 01 - State Highway Agency

Facility Carried: USR 422

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: unnamed creek

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 72928 - SOLON (CUY county)

Location: DISTRICT 12

50 ft east of miles rd.

Insp
Resp B:

Inspector

Miller,Jason

Inspection Date 06/16/2023

Reviewer Seif,Youssef

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

Culvert runs under forward slope of SFN 1814842 & SFN 1814850, cracks to concrete slope.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Channel Alignment

Channel splits at inlet.

Channel Protection

Cracks to concrete at inlet, as much as 6" of inlet channel protection toe exposed to flowing water.

Channel Hydraulic Opening

Channel bottom drops 2.5' at outlet.

Inspector: Miller, Jason
Inspection Date: 06/16/2023

Structure Number: 1814835
Facility Carried: USR 422

Scour Critical

Inspector: Jason Miller

Structure Number: 1814835

Inspection Date: 06/16/2023

Facility Carried: USR 422

Bridge Inspection Report

Pictures