

Inspector: Jewell, Todd
 Inspection Date: 09/21/2023

Structure Number: 7905890
 Facility Carried: SR 416

Ohio Bridge Inspection Summary Report

TUS-00416-0313 (7905890)

2: District 81060 - WARWICK TWP (TUS county)
 District 11

5A: Inventory Route 1 00416

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 11

7: Facility On SR 416
 6: Feature Ints TRIB OF TUSCARAWAS RIVER
 9: Location 3.13 MI. N. OF JCT. US36
 Lat, Lon 40.38764 , -81.41894

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	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	72.7 SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	N N 1 1
72: Approach Alignment	6 - Equal to present minimum criteria
113: Scour Critical	8 - Stable for scour conditions
71: Waterway Adequacy	8 - Bridge Above Approaches

422: WS Date	
423: WS Thick (in)	0.0
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)	17.0
49: Structure Length (ft)	17.0
52: Deck Width, Out-To-Out (ft)	0.0
424: Deck Area (sf)	544
32: Appr Roadway Width (ft)	32.0
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)	0
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)	61

Age and Service	
27: Year Built/ 106 Rehab	1979 / 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	1971
109: % Trucks (%)	10

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	07/01/2002
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	Months	
90: Routine Insp.	12	09/21/2023
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
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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
240-Steel Culvert	3 - Mod.	61	ft.	0	0	51	10
<p>PERFORATIONS AND SOFT AT 1 1/2' BELOW BOLT LINE AT LEFT FWD. CS3- (51LF) SECTION LOSS IS EVIDENT WITH HEAVY RUST AT INVERT AREA AT FWD AND REAR AND THROUGHOUT CONDUIT AT VARIOUS LOCATION. SOME DISTORTION ON LT REAR SIDE OF STR. NEAR TOP. CS4- (10LF) CONNECTION (NUTS AND BOLTS) ARE MISSING FROM CORROSION THROUGHOUT CONDUIT. PERFORATION/HOLES AT THE LT FWD OF CONDUIT.</p>							
835-Culvert End Treatment	3 - Mod.	4	each	1	0	3	0
<p>LARGE OPEN CRACK (3/4"-1 1/2" WIDE) AT RIGHT REAR, WITH SOME PUSHING. ALSO CRACKING OF OTHER WINGWALLS. 3" OF TOP ROTATED OUT AT RIGHT FWD.</p>							
845-Roadway Over Structure	3 - Mod.	2	each	2	0	0	0

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Facility Carried: SR 416

ODOT District: District 11

TUS-00416-0313_(7905890)

Date Built: 07/01/1979

Major Maint: 01 - State Highway Agency

Facility Carried: SR 416

Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: TRIB OF TUSCARAWAS RIVER

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 81060 - WARWICK TWP (TUS county)

Location: DISTRICT 11

3.13 MI. N. OF JCT. US36

Insp

Inspector

Jewell,Todd

Inspection Date 09/21/2023

Reviewer Khalifa,Waseem

Resp B:

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface (EA)

NEW ASPHALT 15. SOME LONGITUDINAL & TRANSVERSE CRACKING. RATING LOWERED DUE TO NORMAL WEAR.

Approach Embankment (EA)

HAD SOME SETTLING OVER CULVERT HAS BEEN LEVELED WITH ASPHALT. LARGE TREE GROWING NEXT TO CULVERT AND BEHIND WINGWALL AT RIGHT.

Approach Guardrail (EA)

GUARDRAIL UPGRADE NEW POSTS & BLOCKS 14. 2021 INSP: MINOR COLLISION DAMAGE AT RT.

Inspector Comments - General Appraisal

Superstructure

Substructure

Culvert

Culvert General (LF)

Culvert Shape (LF)

MINOR DISTORTION. SETTLING AND SOME SAG.

Culvert Seams (EA)

HEAVY RUST AND CORROSION AT SEAMS AND BOLT LINE. A FEW BOLTS MISSING.

Culvert Headwall/Endwall (EA)

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LARGE OPEN CRACK (3/4"-1 1/2" WIDE) AT RIGHT REAR, WITH SOME PUSHING. ALSO CRACKING OF OTHER WINGWALLS. 3" OF TOP ROTATED OUT AT RIGHT FWD.

Culvert Scour (EA)

NO WATER '08- '09. NO WATER IN 2021. 2023 NO WATER NO SCOUR ISSUES.

Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

2003-06 & '11 HAS WATER, NO FLOW, STAGNANT & PONDING. CHANNEL NEEDS CLEANED @ OUTLET & INLET. TREE IN CHANNEL AT INLET AND OUTLET. NO WATER IN 2020,2021,2023.

Channel

Channel Protection (LF)

CRACKING IN CONCRETE. MUCH DIRT COVERING CONCRETE PROTECTION. BEING UNDERMINED @ LT REAR NEXT TO WINGWALL & @ EDGE.

Scour Critical