

Inspector: Trivoli, Raymond

Inspection Date: 06/27/2024

Structure Number: 3403157

Facility Carried: SR 646

Ohio Bridge Inspection Summary Report**HAS-00646-2020 (3403157)**2: District Distr 29890 - GERMAN TWP (HAS county)
ict
11

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

5A: Inventory Route 1 00646

7: Facility On SR 646

6: Feature Ints SALEM CREEK

9: Location 0.29 MI S OF JEF CO LINE

Lat, Lon 40.411314 , -80.8716

Condition		Structure Type
58: Deck	6 - Satisfactory Condition	43: Bridge Type 7 - Wood or Timber
58.01 Wearing Surface	4 - Poor (advanced)	01 - Slab
58.02 Joint	N- Not Applicable	N- Not Applicable
59: Superstructure	4 - Poor Condition	45: Spans Main / Approach 1 / 0
59.01 Paint & PCS	N - Not Applicable	107: Deck Type 8 - Wood or Timber
60: Substructure	4 - Poor Condition	408: Composite Deck U - Unknown
61: Channel	5	414A Joint Type 1 N - None
61.01 Scour	7 - Good	414B: Joint Type 2 N - None
62: Culverts	N - Not Applicable	108A: Wearing Surface 6 - Bituminous
67.01 GA	4	N- Not Applicable

Appraisal		
Sufficiency Rating	54.9	SD/FO 1 - SD
36: Rail, Tr, Gd, Term Std	1 1 1 1	
72: Approach Alignment	8 - Equal to present desirable criteria	482: Protective Coating N - None or Not Applicable
113: Scour Critical	5 - Scour within limits of footing or piles	483: PCS Date
71: Waterway Adequacy	8 - Bridge Above Approaches	453: Bearing Type 1 N - None

Geometric		Age and Service
48: Max Span Length (ft)	16.0	27: Year Built/ 106 Rehab 1928 / 1990
49: Structure Length (ft)	18.0	42A: Service On 1 - Highway
52: Deck Width, Out-To-Out (ft)	23.5	42B: Service Under 5 - Waterway
424: Deck Area (sf)	423	28A: Lanes on 02
32: Appr Roadway Width (ft)	26.0	28B: Lanes Under 00
51: Road Width, Curb-Curb (ft)	23.0	19: Bypass Length 13
50A: Curb/SW Width: Left (ft)	0	29: ADT 552
50A: Curb/SW Width: Right (ft)	0	109: % Trucks (%) 6
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)	0	

Load Posting		Inspections
41: Op/Post/Closed	A - Open	90: Routine Insp. 12 Months 06/18/2024
70: Posting	5 - Equal to or above legal loads	92A: FCM Insp. N 0
70.01: Date		92B: Dive Insp. N 0
70.02: Sign Type		92C: Special Insp. N 0
734: Percent Legal (%)	150	92D: UBIT Insp. N 0
704: Analysis Date	07/01/1996	92E: Drone Insp. N 0
63: Analysis Method	7 - Allowable Stress (AS) rating reported by rating factor (RF) method using MS18 loading.	Inspector Trivoli, Raymond

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
54-Timber Slab	3 - Mod.	423	sq. ft.	411	0	3	9
	CS4- STRINGER #1, CRACK ON OUTSIDE FACE (9 SF)						
	CS3- STRINGERS #19, # 32 AND #57 CRACKED AND DISPLACED IN REAR 1/3 OF SPAN (2 LF EACH) (3 SQ FT)						
	STEEL BRACKETS ATTACHED TO FLOOR AND TIMBER SEAT HAVE PACK RUST WITH MINOR SECTION LOSS, WITH RT REAR THE WORST.						
510-Wearing Surfaces		414	sq. ft.	294	0	120	0
	6.5" ASPHALT CONCRETE						
	CS3- WIDE OPEN MAP CRACKING 5' WIDE ON LT SIDE NEAR DECK EDGE WITH RUTTING, DURAPATCHED. ADDITIONAL 1 FT WIDE ON RT SIDE WITHIN WHEEL TRACK. WIDE TRANSVERSE CRACKS NEAR MIDSPAN, PART AND FULL WIDTH. (120 SF)						
156-Timber Floor Beam	3 - Mod.	23	ft.	0	16	4	3
	CS4- (3 LF) CRACK ON RT SIDE OF FLOOR BEAM AND NOT MAKING CONTACT WITH ALL STRINGERS.						
	CS3- (4 LF) CRACK ON LT SIDE ABOUT 4 FT FROM DECK EDGE.						
	CS2- (16 LF) REMAINING FLOOR BEAM LENGTH IS EXHIBITING NEGATIVE CAMBER (SAGGING) ACROSS THE WIDTH OF THE BRIDGE DECK.						
215-Reinforced Concrete Abutment	3 - Mod.	71	ft.	45	0	22	4
	REAR: 22 LF CONCRETE ON RIGHT SIDE, 14 LF MASONRY ON LEFT SIDE WITH THREE COURSES OF STONES EXPOSED.						
	CS4- (2 LF TOTAL), 1 FT TRIANGULAR CRACKED PORTION OF STONE IN TOP COURSE, 1 FT CRACKED/MISSING PORTION OF 2ND STONE FROM LT IN TOP COURSE.						
	CS3- 22 LF - REMAINING MASONRY ABUTMENT EXHIBITING WIDE OPEN JOINTS BETWEEN STONES. CONCRETE ABOVE SANDSTONE & BELOW TIMBER SEAT HAS HORIZONTAL & VERTICAL CRACKS.						
	FWD 35 LF CONCRETE: CS4- (2 LF) SPALL 4" DEEP ON RIGHT SIDE.						
330-Metal Bridge Railing	3 - Mod.	36	ft.	36	0	0	0
	30" RAILING HEIGHT DEEP BEAM RAIL WITH TUBULAR BACKUP SPAN DESIGN ON LT MGS SPAN DETAIL ON RIGHT WITHOUT TUBLAR BACKUP.						
	NEW PANELS THROUGHOUT ON BOTH SIDES.						
815-Drainage	3 - Mod.	2	each	0	0	2	0
	CS3- 2 EA, RUTTING OF ASPHALT IN BOTH LANES NOT ALLOWING WATER TO DRAIN OFF OF STRUCTURE.						

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HAS-00646-2020_(3403157)			
ODOT District:	District 11	Date Built:	07/01/1928
Major Maint:	01 - State Highway Agency	Rehab Date:	01/01/1990
Routine Maint:	01 - State Highway Agency	Insp. Resp A:	01 - State Highway Agency
FIPS Code:	29890 - GERMAN TWP (HAS county)	Insp. Resp B:	
Inspector	Trivoli,Raymond	Inspection Date	06/27/2024
			Reviewer Trivoli,Raymond

Inspector Comments - Deck and Approach

Deck

Approach

Approach Wearing Surface

NEW ASPHALT 2016.

CS2- SETTLEMENT AT EDGES AT ALL 4 CORNERS. RANDOM MAP CRACKING AND RUTTING ON BOTH FWD /REAR.

GUARDRAIL

NEW MGS RAILING.

SIGNS

WARNING SIGNS PRESENT.

Inspector Comments - General Appraisal

Superstructure

Substructure

Wingwalls

MINOR SCALING THROUGHOUT.

CS3- 1 LF VERT CR WITH MINOR EFFLO.

Culvert

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Inspector Comments - Waterway

Waterway Adequacy

Channel Hydraulic Opening (EA)

HEAVY BUILD UP AT OUTLET ON REAR SIDE. MUCH EROSION OF OUTLET CHANNEL AT RT FWD.

SCOUR CRITICAL

PROBED IN 2022 AND 2023, 2024 NO SCOUR.

Channel

Scour Critical