

Inspector: Mathews,Timothy

Inspection Date: 10/29/2024

Structure Number: 5902797

Facility Carried: SR 288

Ohio Bridge Inspection Summary Report

MRW-00288-0007 (5902797)

2: District 81508 - WASHINGTON TWP (MRW county)
ict
06

5A: Inventory Route 1 00288

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 06

7: Facility On SR 288
6: Feature Ints FLAT RUN
9: Location 0.07 MI E OF SR61
Lat, Lon 40.678908 , -82.820639

Condition	
58: Deck	5 - Fair Condition
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	N- Not Applicable
59: Superstructure	6 - Satisfactory Condition
59.01 Paint & PCS	5 - Fair (10-15% corr.)
60: Substructure	7 - Good Condition
61: Channel	8
61.01 Scour	7 - Good
62: Culverts	N - Not Applicable
67.01 GA	6

Structure Type	
43: Bridge Type	3 - Steel
	02 - Stringer/Multi-beam or Girder
	N- Not Applicable
45: Spans Main / Approach	1 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	N - Non-composite Construction
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	6 - Bituminous
	N- Not Applicable
422: WS Date	06/11/2001
423: WS Thick (in)	2.0
482: Protective Coating	3 - Paint System A
483: PCS Date	01/01/1965
453: Bearing Type 1	D - Integral & semi-integral abutment bearings
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing (on soil)
533: Foundn: Abut Rear	4 - Spread Footing (on Soil)
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Appraisal	
Sufficiency Rating	85.9 SD/FO 0 - ND
36: Rail, Tr, Gd, Term Std	1 0 1 1
72: Approach Alignment	8 - Equal to present desirable criteria
113: Scour Critical	8 - Stable for scour conditions
71: Waterway Adequacy	8 - Bridge Above Approaches

Geometric	
48: Max Span Length (ft)	45.0
49: Structure Length (ft)	47.0
52: Deck Width, Out-To-Out (ft)	36.0
424: Deck Area (sf)	1692
32: Appr Roadway Width (ft)	36.0
51: Road Width, Curb-Curb (ft)	36.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	10
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

Age and Service	
27: Year Built/ 106 Rehab	1965 / 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	1922
109: % Trucks (%)	8

Load Posting	
41: Op/Post/Closed	P - Posted for Load
70: Posting	3 - 10.0-19.9% below legal loads
70.01: Date	08/13/2021
70.02: Sign Type	5- R12-2 ("Axle Weight Limit ## Tons")
734: Percent Legal (%)	85
704: Analysis Date	07/02/2021
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections		
	<i>Months</i>	
90: Routine Insp.	12	10/29/2024
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
12-Reinforced Concrete Deck	3 - Mod.	1692	sq. ft.	1304	146	242	0
2021 CS2 Saturation bays 1,2,3 rear, 2&3 fwd. scaling bay 3 fwd. seeping trans cracks w/efflor under rail posts rt .500sf CS3 Spall w/exposed rebar bay 2, spalls under all rail posts exposing lower anchors rt. 2022 CS2 All Bays - trans cracks w/ efflor, minor delams & scaling 46 sq.ft Bay 3 Fwd. - large delam 10 sq.ft CS3 All Bays- large areas of saturation & scaling t/o 146 sq.ft Fwd. LT deck edge - spalled off w/ exposed rebar w/ section loss 4 sq.ft Bay 2 Rear - spall w/ exposed rebar w/ minor section loss 8 sq.ft Outside RT edge (under railing post) - saturated spalls, exposing railing anchors, anchors rusted w/ section loss 10 sq.ft 2023 - same as 2022							
510-Wearing Surfaces		1692	sq. ft.	1597	95	0	0
2022 CS2 Minor trans & longitudinal cracks 83 sq.ft 2023 - same as 2022							
107-Steel Open Girder/Beam	3 - Mod.	235	ft.	149	39	47	0
2021 CS2 Speckled rust thru out, upper flanges rusted @ saturated areas 30' CS3 Fascia beam lt outside rusted w/heavy section loss mid to rear 50' 2022 CS2 Speckled rust thru out, upper flanges rusted @ saturated areas 30' CS3 Beam 1 (facia) LT - rusted w/ advanced flaking & heavy section loss 47' 2023 - same as 2022							
515-Steel Protective Coating		1880	sq. ft.	0	1692	0	188
lt facia cs4 2021 CS2 Faded, speckled rust 1500' CS4 Lt outer fascia beam coating failed 50' 2022 - Same as 2021 2023 CS2 Paint faded thru out 1692 SF CS4 B1 (LT facia) & isolated saturated areas - heavy rust PCS failed 188 SF							

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
215-Reinforced Concrete Abutment	3 - Mod.	73	ft.	55	14	4	0
	2021 CS2 Spall rt rear 2' CS3 Spall rt fwd top w/exposed rebar 4' 2022 2022 - Same as 2021 *Seeping shear crack w/ efflor in RT rear wing wall (middle)* 2023 CS2 Rear (LT & RT) - minor spalls & saturation w/ isolated minor vertical cracks 7' CS3						
312-Enclosed/Concealed Bearing	3 - Mod.	10	each	10	0	0	0
321-Reinforced Concrete Approach Slab	3 - Mod.	1800	sq. ft.	1741	59	0	0
	2022 CS2 Rear center - longitudinal crack 25 sq.ft 2023 Fwd & Rear (center) - longitudinal cracks 50 SF						
330-Metal Bridge Railing	3 - Mod.	94	ft.	47	0	47	0
	2021 CS3 Lower anchors exposed rt all posts 20' 2022 CS3 RT - lower anchors exposed w/ section loss 47' 2023 - same as 2022						
815-Drainage	3 - Mod.	2	each	1	0	0	1
	2024 CS4- No drip strip Lt						
830-Abutment Backwall	3 - Mod.	73	ft.	69	0	2	2
	CS3 Spall rt w/exposed rebar 4' 2022 CS3 Fwd. LT - spall w/ exposed rebar w/ section loss 2' CS4 Fwd. RT corner- spalled off w/ exposed rebar w/ section loss (360 degree exposure) 2' 2023 - same as 2022						

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ODOT District: District 06

MRW-00288-0007 _(5902797)

Date Built: 07/01/1965

Major Maint: 01 - State Highway Agency

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Traffic On: 1 - Highway

Rehab Date:

Routine Maint: 01 - State Highway Agency

Feature Inters: FLAT RUN

Traffic Under: 5 - Waterway

Insp. Resp A: 01 - State Highway Agency

FIPS Code: 81508 - WASHINGTON TWP (MRW county)

Location: DISTRICT 06

0.07 MI E OF SR61

Insp
Resp B:

Inspector

Mathews,Timothy

Inspection Date 10/29/2024

Reviewer Hayes,Edmund

Inspector Comments - Deck and Approach

Deck

Floor/Slab (SF)

CRACKING W/EFFLOR., SATURATED AREAS LT.REAR AND RT.FWD.,,A 3X3 AREA DELAMINATED AND SPALLED BAY 1 REAR.,,A 2X3 AREA SPALLED BAY 3 FWD.

Edge of Floor/Slab (LF)

SPALLED UNDER RAIL MOUNTS W/EXPOSED ANCHORS RT.

Bridge Railing (LF)

LOWER ANCHORS EXPOSED RT CENTER 2019 ALL RT ANCHORS SPALED W/REBAR

Deck Drainage (EA)

DRIP STRIP RT.ONLY.

Approach

Approach Wearing Surface (EA)

CHIP SEALED

Approach Guardrail (EA)

POST ROTTING ALL CORNERS RT FWD BROKEN.

Inspector Comments - General Appraisal

Superstructure

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Beams/Girders (LF)

LT. AND RT. FACIA BEAM DETER., RUSTING W/SECTION LOSS FULL LENGTH., RUSTED W/SECTION LOSS AT ENCASED AREAS REAR AND FWD. THROUGH HOLE RT. FACIA BEAM ON LOWER FLANGE

Protective Coating System (LF)

RUST, FADED ALL BEAMS FULL LENGTH.

Substructure

Abutment Walls (LF)

SEEPING CRACKS FRD REAR, TWO SPALLS RT REAR 4LF

Backwalls (LF)

CORNERS SPALLED FW RT HAS EXPOSED REBAR, LT REAR SPALL W/REBAR

Wingwalls (EA)

TOPS DETER.

Substructure Scour (EA)

FOOTERS EXPOSED, NO UNDERCUTTING

Culvert

Inspector Comments - Waterway

Waterway Adequacy

Channel

Scour Critical

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Pictures



PHOTO 1

Description Fwd



PHOTO 2

Description Fwd approach

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PHOTO 3

Description WS



PHOTO 4

Description Rear approach

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PHOTO 5

Description Lt



PHOTO 6

Description Fwd

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PHOTO 7

Description Rear



PHOTO 8

Description B1 Rear

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PHOTO 9

Description B1 Fwd



PHOTO 10

Description Fwd Rt

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PHOTO 11
Description Fwd Lt



PHOTO 12
Description Bay1, Rear

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PHOTO 13

Description Bays 1&2 , Fwd



PHOTO 14

Description Bay3 Fwd

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PHOTO 15

Description Bays2&3 Rear



PHOTO 16

Description Rt

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PHOTO 17

Description Rear