Missouri Department of Transportation
State Bridge Inspection Report

June 24, 2021
10:23:53AM

COUNTY: CARTER **DISTRICT: SE** **CLASS: STATBR** **FED-ID: 8209** **BRIDGE: R0240**

GENERAL STRUCTURE INFORMATION

ROUTE:	RTBE	**# SPANS:**	3
FEATURE:	TEN MILE CR	**LANES ON:**	2
STATUS:	P-POSTLOAD	**LANES UNDER:**	0
LOG MILE:	8.195	**COMPASS DIRECTION:**	WEST to EAST
DETOUR:	24.00 MILES	**DIRECTION OF TRAFFIC:**	2-WAY TRAF
NHS:	NO	**FUNCTIONAL CLASS:**	RL-MAJOR COLLECTOR
BUILT:	1963	**NBI OWNER:**	MODOT
REHAB:		**NBI MAINTAINED:**	MODOT
LOCATION:	S 1 T 25 R 3 E	**MAINTENANCE DISTRICT:**	SE
LATITUDE:	36 51 1.95 (DMS)	**MAINTENANCE COUNTY:**	CARTER
LONGITUDE:	90 41 6.96 (DMS)	**SUB AREA:**	7H16

PLACE CODE:	37376 JOHNSON
LENGTH:	135 FT 0 IN
MAXIMUM SPAN:	52 FT 0 IN
APPROACH ROADWAY:	20 FT 0 IN
CURB TO CURB:	24 FT 0 IN
OUT TO OUT:	27 FT 7 IN
AADT:	284
AADT YEAR:	2020
AADT TRUCK:	10.6%
FUTURE AADT:	398
FUTURE AADT YEAR:	2040

BRIDGE INSPECTION INFORMATION

DATE:	12/07/2020	**RESPONSIBILITY:**	DISTRICT
FREQUENCY:	12	**CALCULATED INTERVAL**:**	12
TEAM LEADER:	ED HESS	**ELEMENT:**	NO
INSPECTOR 2:		**INSPECTOR 4:**	
INSPECTOR 3:			

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

GENERAL INSPECTION COMMENTS

FRACTURE CRITICAL INSPECTION INFORMATION

DATE:		**RESPONSIBILITY:**	
FREQUENCY:		**CALCULATED INTERVAL**:**	
TEAM LEADER:		**INSPECTOR 3:**	
INSPECTOR 2:		**INSPECTOR 4:**	

CATEGORY:
NBI:
METHOD:

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

INDEPTH INSPECTION INFORMATION

DATE:		**RESPONSIBILITY:**	
FREQUENCY:		**CALCULATED INTERVAL**:**	
TEAM LEADER:		**INSPECTOR 3:**	
INSPECTOR 2:		**INSPECTOR 4:**	

CATEGORY:
NBI:
METHOD:

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

FRACTURE CRITICAL INSPECTION COMMENTS

INDEPTH INSPECTION COMMENTS

SPECIAL INSPECTION INFORMATION

DATE:	06/17/2019	**RESPONSIBILITY:**	DISTRICT
FREQUENCY:	72	**CALCULATED INTERVAL**:**	62
TEAM LEADER:	ED HESS	**INSPECTOR 3:**	
INSPECTOR 2:		**INSPECTOR 4:**	

CATEGORY: CHANNEL CROSS SEC
NBI: NO
METHOD: WT TAPE

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

UNDERWATER INSPECTION INFORMATION

DATE:	12/07/2020	**RESPONSIBILITY:**	DISTRICT
FREQUENCY:	60	**CALCULATED INTERVAL**:**	12
TEAM LEADER:	ED HESS	**INSPECTOR 3:**	
INSPECTOR 2:		**INSPECTOR 4:**	

CATEGORY: DRY
NBI: NO
METHOD: VISUAL

** When calculated interval exceeds the frequency, a justification comment per BIRM is required.

SPECIAL INSPECTION COMMENTS

UNDERWATER INSPECTION COMMENTS

OTHER SPECIAL INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD
12/19/2017	999	QUALITY ASSURANCE	NO		BRIDGEDIV	

OTHER UNDERWATER INSPECTIONS

DATE	FREQUENCY	CATEGORY	NBI	CALCULATED INTERVAL	RESPONSIBILITY	METHOD

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STRUCTURE POSTING

APPROVED CATEGORY: S-15 TRUCK WEIGHT LIMIT 38 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 21 TONS WEIGHT LIMIT
Ton 1: 38 **Ton 2:** 21 **Ton 3:**
COMMENTS:

FIELD CATEGORY: S-15 TRUCK WEIGHT LIMIT 38 TONS EXCEPT SINGLE UNIT TANDEM REAR AXLE TRUCKS 21 TONS \
Ton 1: 38 **Ton 2:** 21 **Ton 3:** **PROBLEM:** **PROBLEM DIRECTION:**
COMMENTS:

GENERAL COMMENTS/MAJOR RATED ITEMS

GENERAL COMMENTS: (BOWDEJ1, 08/28/2008)--(41'-52'-41') CONT WF GDR SPANS

[ITEM 58] DECK: 4-POOR CONDITION **COMMENTS:** (DENNIB1, 12/05/2013)--PATCHES & SATURATION
RATING : 12/26/2017 (ELSEMJ, 12/26/2017)--SPAN 3 50% SAT

[ITEM 59] SUPER: 6-SATISFACTORY CONDITION **COMMENTS:** (DENNIB1, 12/05/2013)--RUSTING TOP FLANGE
RATING : 12/10/2018

[ITEM 60] SUB: 4-POOR CONDITION **COMMENTS:** (DENNIB1, 12/05/2013)--VERTICLE CRACKS
RATING : 12/08/2020 (ELSEMJ, 12/26/2017)--H-PILE EXPOSED @ BOTH ABUTS
(DENNIB1, 12/08/2020)--MINOR SECTION LOSS OF PILE

[ITEM 61] BANK/CHANNEL: 5-MAJOR DAMAGE **COMMENTS:** (ELSEMJ, 12/26/2017)--WEST BANK PROTECTION BEING ERODED
RATING : 12/26/2017

[ITEM 113] SCOUR: 8-STABLE FOR CALCULATED **COMMENTS:**
RATING : 05/18/2001
EVALUATION TYPE :

[ITEM 71] WATERWAY ADEQUACY: DECK/APPRCH OVERTOP SLIGT **COMMENTS:**
RATING : 05/18/2001

[ITEM 72] APPRRDWY ALIGNMENT: 6-SATISFACTORY **COMMENTS:**
RATING : 05/18/2001

RAILING AND APPROACH PAVEMENT COMPONENTS AND RATINGS

[ITEM 36A] BRIDGE RAILING RATING: *DOESNT MEET CURRNT STND-0* ***RATING :*** *01/16/2008* ***COMMENTS:***

MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
REINFORCED CONCRETE	CURB	BOTH	
STEEL	CHANNEL-12"	BOTH	

[ITEM 36B] TRANSITION RAILING RATING: *NOT PROVIDED-0* ***RATING :*** *05/18/2001* ***COMMENTS:***

[ITEM 36C] APPROACH RAILING RATING: *NOT PROVIDED-0* ***RATING :*** *05/18/2001* ***COMMENTS:***

[ITEM 36D] RAIL END TREATMENT RATING: *NOT PROVIDED-0* ***RATING :*** *05/18/2001* ***COMMENTS:***

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APPROACH PAVEMENT: *Overall condition assigned for each approach pavemenet component is shown below.

MATERIAL	CONSTRUCTION	DIRECTION	CONDITION*	COMMENTS
ASPHALT	BITUMINOUS MAT	BOTH		

DRAINAGE, EXPANSION DEVICES, BANK/SLOPE, AND DECK PROTECTIVE COMPONENTS

DECK PROTECTIVE COMPONENTS:

SERIES TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	THICKNESS	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION
MAIN SERIES-1	*WEARING SURFACE*	*ASPHALT*	*BITUMINOUS SEAL COAT*	*.4 IN*	*2011*		*FAIR*

COMMENT: (REHAGM, 11/28/2005)--POOR CONDITION

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
TRANSVERSE CRACKS	DRIVING SURFACE		MANY	

DECK PROTECTION *NOTAPPLICABLE* *NONE*

COMMENT:

MEMBRANE *NOTAPPLICABLE* *NONE*

COMMENT:

DRAINAGE COMPONENTS:

COMPONENT	MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
DRAINAGE	*REINFORCED CONCRETE*	*CURB OUTLET*		

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	COMMENT
DETERIORATION	THROUGHOUT		MINOR	

EXPANSION DEVICE COMPONENTS:

SUB UNIT-#	SUB LABEL	COMPONENT	MATERIAL	CONSTRUCTION	GAP	YEAR APPLIED	MANUFACTURE	OVERALL CONDITION

COMMENT:

BANK/SLOPE PROTECTION COMPONENTS:

COMPONENT	MATERIAL	CONSTRUCTION	DIRECTION	COMMENTS
BANK PROTECTION	*ROCK*	*BLANKET*	*BOTH*	

DECK COMPONENTS

SPAN TYPE-#	COMPONENT	MATERIAL	CONSTRUCTION	COMMENTS
MAIN SPANS-1	*DECK*	*REINFORCED CONCRETE*	*CAST-IN-PLACE*	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DETERIORATION	AT OUTLETS		MODERATE		
DETERIORATION	EDGE		MODERATE		
EFFLORESCENCE	THROUGHOUT		MINOR		
PATCHES	DRIVING SURFACE		MANY		
PATCHES	THROUGHOUT		FEW		(WILSOJ, 02/01/2003)-- 3 FULL DEPTH
SATURATION	THROUGHOUT		MODERATE	50 %	
SPALLS	BOTTOM		MODERATE		
TRANSVERSE CRACKS	THROUGHOUT		MANY		

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MAIN SPANS-2 *DECK* *REINFORCED CONCRETE* *CAST-IN-PLACE*

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DETERIORATION	AT OUTLETS		MODERATE		
EFFLORESCENCE	RANDOM		MINOR		
PATCHES	DRIVING SURFACE		MANY		
SATURATION	THROUGHOUT		MODERATE	25 %	
SPALLS	BOTTOM		MODERATE		
TRANSVERSE CRACKS	THROUGHOUT		MANY		

MAIN SPANS-3 *DECK* *REINFORCED CONCRETE* *CAST-IN-PLACE*

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
DETERIORATION	AT OUTLETS		MODERATE		
EFFLORESCENCE	RANDOM		MINOR		
PATCHES	DRIVING SURFACE		MANY		
PATCHES	THROUGHOUT		FEW		(WILSOJ, 02/01/2003)--2 FULL DEPTH
SATURATION	THROUGHOUT		HEAVY	50 %	
SPALLS	BOTTOM		SMALL		
SPALLS	DRIVING SURFACE		FEW		(ELSEMJ, 12/26/2017)--SPALL IN TOP OF DK FILLED WITH ASPHALT
TRANSVERSE CRACKS	THROUGHOUT		MANY		

SUPERSTRUCTURE COMPONENTS

SERIES TYPE-#	SPAN TYPE	MATERIAL	CONSTRUCTION	LABEL	COMMENTS
MAIN SERIES-1	*CONTINUOUS SPAN*	*STEEL*	*WIDE FLANGE GIRDERS*		

SPAN	COMPOSITE INDICATOR	LENGTH	WEATHERING STEEL	COMMENTS
MAIN SPANS-1	NON-COMPOSITE	41 FT 8 IN	NO	
MAIN SPANS-2	NON-COMPOSITE	52 FT 0 IN	NO	
MAIN SPANS-3	NON-COMPOSITE	41 FT 8 IN	NO	

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
RUSTING	TOP FLANGE		MODERATE		
RUSTING	TOP FLANGE		MINOR		
RUSTING	TOP FLANGE		MODERATE		

SUBSTRUCTURE COMPONENTS

SUBSTRUCTURE	SKEW	LENGTH	MATERIAL	CONSTRUCTION	LABEL	COMMENTS
ABUTMENT-1	*RA-20 DEGREES*	*31 FT 4 IN*	*REINFORCED CONCRETE*	*NON-INTEGRAL*		*(WILSOJ, 02/01/2003)--SHIFTED SOUTH 1.5"*

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
SHOVING	BACKWALL		MINOR		

ASSOCIATED COMPONENT	MATERIAL	CONSTRUCTION
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
REBAR EXPOSED	RANDOM		MINOR		
SPALLS	RANDOM		FEW		
VERTICAL CRACKS	THROUGHOUT		FEW		

PILING	STEEL	H-SHAPE

CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT

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EXPOSED	AT BEAM CAP		MINOR		(ELSEMJ, 12/26/2017)--H-PILE EXPOSED BEHIND LOOSE ROCKS
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
SHOVING	THROUGHOUT		MODERATE		(ELSEMJ, 12/26/2017)--2 IN
FIXED BEARING	STEEL	PEDESTAL(ROTATING)			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
RUSTING	THROUGHOUT		MINOR		

BENT-2 RA-20 DEGREES 26 FT 2 IN REINFORCED CONCRETE PILE CAP

CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
ASSOCIATED COMPONENT	***MATERIAL***	***CONSTRUCTION***			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
SEALED	THROUGHOUT		NOT APPLICABLE		
PILING	STEEL	H-SHAPE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
RUSTING	WATERLINE		MODERATE		
FIXED BEARING	STEEL	PEDESTAL(ROTATING)			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***

BENT-3 RA-20 DEGREES 26 FT 2 IN REINFORCED CONCRETE MULTIPLE COLUMN

CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
ASSOCIATED COMPONENT	***MATERIAL***	***CONSTRUCTION***			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
SEALED	THROUGHOUT		NOT APPLICABLE		
PILING	STEEL	H-SHAPE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
RUSTING	WATERLINE		MODERATE		
FIXED BEARING	STEEL	PEDESTAL(ROTATING)			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***

ABUTMENT-4 RA-20 DEGREES 31 FT 4 IN REINFORCED CONCRETE NON-INTEGRAL

CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
SHOVING	BACKWALL		MINOR		
ASSOCIATED COMPONENT	***MATERIAL***	***CONSTRUCTION***			
BEAM CAP	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
DELAMINATION	THROUGHOUT		MINOR		
REBAR EXPOSED	RANDOM		MINOR		
VERTICAL CRACKS	THROUGHOUT		FEW		
PILING	STEEL	H-SHAPE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
EXPOSED	AT BEAM CAP		MINOR		(ELSEMJ, 12/26/2017)--H-PILE EXPOSED BEHIND LOOSE ROCKS
STRAIGHT WINGS	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
BACKWALL	REINFORCED CONCRETE	CAST-IN-PLACE			
CONDITION	***LOCATION 1***	***LOCATION 2***	***SEVERITY***	***MEASUREMENT***	***COMMENT***
SHOVING	THROUGHOUT		MODERATE		(ELSEMJ, 12/26/2017)--2 IN
FIXED BEARING	STEEL	PEDESTAL(ROTATING)			

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CONDITION	LOCATION 1	LOCATION 2	SEVERITY	MEASUREMENT	COMMENT
RUSTING	THROUGHOUT		MINOR		

OVER/UNDER ROUTES CLEARANCE INFORMATION

CLEARANCES OVER DECK

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

VERTICAL CLEARANCE TYPE**	VALUE	DIRECTION	DATE	COMMENT

CLEARANCES UNDER BRIDGE

**NOTE: Vertical clearances for permitting purposes are taken as 2 inches less than the actual field measured clearance.

RECORD #	ROUTE	# LANES	DIRECTION OF TRAFFIC	RIGHT LATERAL CLEARANCE	LEFT LATERAL CLEARANCE	UR-ID

VERTICAL CLEARANCE TYPE**	VALUE	DIRECTION	DATE	COMMENT

STRUCTURE PAINT INFORMATION

CONDITION: GOOD **RUST AMOUNT :** 7 = .2% OF SURFACE RUSTED **STEEL TONS :** 27

ORIGINAL PAINT	CONTRACT REPAINT	DEPARTMENT REPAINT	
PAINT TYPE :	PAINT TYPE :	PAINT TYPE : C SYSTEM	MANUFACTURE :
NAME :	NAME :	NAME : INORGANIC ZINC/VINYL	SURFACE PREP :
PAINT COLOR :	PAINT COLOR :	PAINT COLOR : ALUMINUM	
PAINT YEAR :	PAINT YEAR :	PAINT YEAR : 1992	
MILS :	MILS :	MILS : 7	

REQUESTED WORK ITEMS

GENERAL WORK COMMENTS:

RESPONSIBILITY	LOCATION	ITEM	CATEGORY	PRIORITY	DATE	WORK ITEM COMMENT

UTILITY ATTACHMENTS

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UTILITY	OWNER	METHOD	MEASUREMENT TYPE	VALUE	NUMBER	UTILITY ATTACHMENT COMMENT

PROGRAM NOTES INFORMATION

YEAR	PROJECT #	MONTH LET	YEAR LET	ITEMS	COMMENT
2024	J9S3612	1	2024	REPLACE BRIDGE	

COMPUTER GENERATED RATINGS AND DEFICIENCY ITEMS

NOTE: The items listed in this section are updated whenever computer edits are ran on a structure after the inspection updates have been entered in to TMS.

Rated Item	Rating	Rating Date
[Item 67] Structure Evaluation Rating:	4-MEETS MINIMUM TOLERABLE	10/24/2002
[Item 68] Deck Geometry Rating:	5-BETTER THAN MINIMUM	4/5/2018
[Item 69] Underclearance:	N-NOT APPLICABLE	5/18/2001
Sufficiency Rating:	32.9%	12/9/2020
Deficiency:	STRUCTURAL	1/12/2018
Funding Eligibility:	FULL	----
Estimated New Structure Length:	167 FT.	----
Estimated Structure Cost:	$520,939	----
Estimated Total Project Cost:	$781,409	----
Year of Cost Estimate:	2021	----

NOTE: The above structure length and cost estimates are computer generated using algorithims in the TMS system. These algorthims are generalized to use NBI items to come up with a new structure length and width to calculate a new area which is taken times a representative cost per square foot. The actual structure size and cost may vary significantly from these numbers once site specific engineering is done.

ADVANCED SIGN INFORMATION

SIGN #	SIGN TYPE	PROBLEM	PROBLEM DIRECTION
1			

OUTFALL INSPECTION INFORMATION

 # OUTFALLS: **INSPECTOR:**
STATUS: **DATE:**
NOTES:

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