Bridge	No
Dhuge	INO.

Job No. J4S3454

Replaces Bridge No. S0025

Missouri Department of Transportation Bridge Survey Report

Bridge ov	er			PL	ATTE C	OUN	ITY				Route		"Z"	
County	PLAT	TE	Sec.	1	Twp.	54	Rg.	34	;	1.5	miles	**W of	EDGERT	ON
*On road from DEARBORN to			to	ED	GEF	RTON	_	at Sta.	311+82.5	0				
		West or North of site						East c	r Sou	uth of s	ite	_		
*Give adjacent towns each way, not terminal points of route. ** Delete all but one of N-E-S-W or circle appropriate direction.						n.								
Surveyed	by R	ENAIS	SANCI	E INFF	RASTRI	JCTU	IRE C	ONSU		G	Date	8	8/23/2022	

EXISTING MODOT BRIDGE AT OR NEAR PROPOSED SITE

(Data provided shall not come from existing bridge plans)

Beginning Station	307+63.30		(ft) Ending S	Station	316+01.70		(ft)
Beginning Deck Elevation 822.15		5	(ft) Ending [Deck Elevation	822.15	5	(ft)
Top of Sound Concrete Station	Curb or Wing nea	ar Beginn	ing Top of S Station	Sound Concrete	Curb or Wing ne	ar Er	nding
Elevation	822.72	(ft)		Elevation	822.72	(ft)	
Station	311+88.99	(ft)		Station	316+03.12	(ft)	
Offset	-13.19	(ft)		Offset	-13.00	(ft)	
Does drift collect on str	NO	Does the bri	idge back up wa	ater during flood?	>	NO	
Is the bridge overtoppe	NO	Frequency					
Is the roadway overtop	NO	Frequency					

HIGH WATER ELEVATIONS AT PROPOSED BRIDGE SITE

If high water elevations are not available at proposed bridge site, give elevations where found and note location.

		Extreme High Water (Give date of occurrence)	Ordinary High Water Mark (See EPG 127.4.1.1)		
Elevations		808.89	791.48		
Date(s)			N/A		
Location		NORTHEAST BANK	SOUTHEAST BANK		
Source of information		OBSERVATION	OBSERVATION		
Head (or backwater from)		N/A		
Frequency (give dates)			N/A		
*** Character of drift		HEAVEY	N/A		

***Light – passes 12 ft opening; Medium – passes 24 ft opening; Heavy – requires over 24 ft opening

Rev 08/18

IMPROVEMENTS WITHIN SURVEY AREA OF PROPOSED BRIDGE (WITHIN 1 FOOT ABOVE EXTREME HIGH WATER ELEVATION)

Note the location and type of any improvements in the vicinity of the proposed bridge, including residences, businesses, other buildings, crop fields, etc.

NO IMPROVEMENTS NOTED THIS SURVEY OTHER THAN A GRAVEL PARKING LOT AT THE SE QUADRANT OF THE BRIDGE LOCATION.

OTHER BRIDGES ACROSS SAME STREAM

Information required for bridges as indicated on the Bridge Survey Location Request. Sketches of structure not required. See the Bridge Survey Location Request for additional data needed.

	No. 1	No. 2
Distance along thalweg from proposed structure, upstream or down (ft)		
Railroad, highway or pedestrian bridge.		
Extreme High Water Elevation at structure		
Does the bridge back up water during floods?		
Additional Remarks: NOT NEEDED ACCORDING TO BRIDGE SURV	/EY LOCATION R	EQUEST

DATA FOR PROPOSED BRIDGE						
Are the banks caving/sloughing at the site?	NO					
Does the stream appear to be cutting or filling	ng? CUTTING					
Elevation of extreme low water 784.49	(ft) During what months is stream dry? N/A					
Type of surface material of streambed (gravel, sand, silt, etc.) SILT						
Location of dam(s) having a definite spillway within 1 mile of the bridge site? N/A						
If crossing is over drainage ditch, provide the corporate name of drainage district: N/A						

Roadway Design Frequency and Required Permits

Roadway Design Frequency:

-Year (See EPG 748.2.2)

Corps of Engineers 404 Permit:	□ Yes	🗆 No
State Department of Natural Resources 401 Permit:	🗆 Yes	🗆 No
Environmental Protection Agency NPDES Permit:	🗆 Yes	🗆 No

PHOTOGRAPHS OF SITE CONDITIONS

For grade crossings and retaining walls provide photographs documenting site characteristics as deemed necessary.

For stream crossings provide photographs documenting the site characteristics. Photos should be taken in an overlapping manner to provide a 360° panoramic view at or near the proposed stream crossing. Photos should also be taken to show the channel, banks and streambed both upstream and downstream of the proposed bridge, as well as the waterway through the existing bridge. If the existing roadway is overtopped at extreme high water, provide photographs showing the roadway on either side of the existing bridge. If the land use or stream characteristics are significantly different at upstream or downstream valley profiles, provide additional photographs to document these conditions. Additional photographs may also be necessary to provide information on other site-specific conditions. It is especially important to show any nearby improvements that may be affected by flooding or changes in stream velocity. Photos of other bridges near the proposed structure should also be included. These photos should show the bridge profile including details of the superstructure and substructure type. These photos should also show any bank or channel improvements or issues in the area.

Brief Description of Photographs (directions and locations):

- #1 Panoramic North
- #2 Panoramic South
- #3 Roadway Looking North
- #4 Roadway Looking South
- #5 Upstream Channel
- #6 Downstream Channel
- #7 Northwest Bank
- #8 Southwest Bank
- #9 Northeast Bank
- #10 Southeast Bank



#13 – Pier 1

- #14 Pier 3
- #15 Looking North Under Bridge



GENERAL INSTRUCTIONS FOR BRIDGE SURVEYS

In order to provide the best possible structure design, it is important that this report be completed as fully and accurately as possible. Consultation with bridge office to resolve questions or issues that require considerable judgment is encouraged.

The purpose of a bridge survey is to provide data needed to establish three important points: the general dimensions of the structure (length, height, skew, and arrangement of spans); the type, size and depth of foundation; and the cost of construction. For stream crossings these three points are very intimately related to the required waterway. A restricted waterway means serious scour, and footings must extend deep or be very substantially founded.

Detailed instructions on completing the Bridge Survey Report and associated plan and profile sheets are contained in EPG 747 Bridge Reports and Layouts of the *Engineering Policy Guide*.





#1 Panoramic Looking North



#2 Panoramic Looking South



#4 Roadway Looking North



#4 Roadway Looking South



#5 Looking Upstream



#6 Looking Downstream



#7 Northwest Bank



#8 Southwest Bank



#9 Northeast Bank



#10 Southeast Bank



#11 South Abutment