

#### **Public Works Commission**

Application for Financial Assistance

IMPC	ORTANT: Please consult "Instructions for I	Financial Assistance for Capital In	frastructure Projects" for gu	uidance in comple	tion of this form.
	Applicant: City of Vandalia		Subdivision	on Code: 113-7949	2
Applicant	District Number: 4 County:	Montgomery		Date: 08/22/202	22
Appl	Contact: Rob Cron (The individual who will be available during	business hours and who can best answer or co	pordinate the response to questions)	Phone: (937) 415	-2323
	Email: rcron@vandaliaohio.org			FAX:	
	Project Name: Airport Access Road NB Bridg	ge Deck Rehabilitation		Zip Code:	45377
	Subdivision Type	Project Type	Funding	Request Summa	ary
Ħ		(Select single largest component by \$)	(Automatically populates fr	om page 2)	452.000 .00
Project	City	1. Road	Total Project Cost:		453,238 .00
Pr		X 2. Bridge/Culvert	1. Grant:		00.00
		Water Supply     Wastewater	Loan:     Loan Assista		00. 00. 00. 0
		Vvastewater     Solid Waste	Credit Enha		
		6. Stormwater	Funding Requested:		200,000 .00
D	istrict Recommendation Funding Type Requested	(To be completed by the District SCIP Loan - Rate:		Amount:	.00
(Se	lect one)	Zon Zoan Maio.			
	State Capital Improvement Program	RLP Loan - Rate:	% Term: Yrs A	Amount:	.00
	Local Transportation Improvement Program  Revolving Loan Program	Grant:	A	Amount:	.00
	Small Government Program	LTIP:	A	Amount:	.00
	District SG Priority:	Loan Assistance / Credit	t Enhancement:	Amount:	.00
Fo	or OPWC Use Only				
_	STATUS	Grant Amount:	00 Loan Ty	pe: SCIP	RLP
Proje	ect Number:	Loan Amount:	00 Date Co	nstruction End:	
		Total Funding:		iturity:	
Rele	ase Date:	Local Participation:		%	
OPV	/C Approval:	OPWC Participation:	% Term:	Yrs	

#### 1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

#### 1.1 Project Estimated Costs

Engineering Services			
Preliminary / Final Design:	20,068		
Construction Administration:	10,000 .00		
Total Engineering Services:	a.)	30,068 .	00 %
Right of Way:	b.)	· .0	00
Construction:	c.)	384,700 .(	)0
Permits, Advertising, Legal:	e.)	0.	)0
Construction Contingencies:	f.)	38,470 .(	00
Total Estimated Costs:	g.)	453,238 .(	)0
1.2 Project Financial Resources			
Local Resources			
Local In-Kind or Force Account:	a.)	0.0	00
Local Revenues:	b.)	<sup>253,238</sup> .(	00
Other Public Revenues:			
Local / ODOT - Let:	d.)	· .0	00
ODOT PID:			
OEPA / OWDA:	e.)	<u> </u>	)0
CDBG:	f.)		00
Other:	g.)	0.	)0
Subtotal Local Resources:	i.)	253,238	00 %
OPWC Funds (Check all requested and enter Amo	unt)		
Grant: % of OPWC Funds	j.)	200,000 .(	00
Loan:0 % of OPWC Funds	k.)	). <del>0</del>	00 yrs
Loan Assistance / Credit Enhancement:	l.)	0.	00
Subtotal OPWC Funds:	m.)	200,000 .0	0044.1 %
Total Financial Resources:	n.)	453,238 .0	00 %

#### 1.3 Availability of Local Funds

Attach a statement signed by the <u>Chief Financial Officer</u> listed in section 5.2 certifying <u>all local resources</u> required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

2.0 Repair / Replacement or New / Expa	ansion			
2.1 Total Portion of Project New / Expansion	n:		<u> </u>	
3.0 Project Schedule				
3.1 Engineering / Design / Right of Way	Begin Date:	08/01/2022	End Date:	12/30/2022
3.2 Bid Advertisement and Award	Begin Date:	07/03/2023	End Date:	08/07/2023
3.3 Construction	Begin Date:	09/01/2023	End Date:	05/01/2024
Construction cannot begin prior to release of e	xecuted Project	Agreement and is	ssuance of Noti	ce to Proceed.
Failure to meet project schedule may resul Modification of dates must be requested ir Commission once the Project Agreement h	n writing by proje	ect official of re		
4.0 Project Information				
If the project is multi-jurisdictional, information n	nust be consolid	lated in this sec	tion.	
4.1 Useful Life / Cost Estimate / Age	of Infrastru	cture		
Project Useful Life:30 Years Age: _	1980	(Year built or ye	ar of last major	improvement)
Attach Registered Professional Engineer's a project's useful life indicated above and det			nd signature co	onfirming the
, ,				
4.2 User Information				
Road or Bridge: Current ADT	Year			
Water / Wastewater: Based on monthly usag	e of 4,500 gallo	ns per househol	d; attach curre	nt ordinances.
Residential Water Rate Current \$	0	Number of h	ouseholds ser	ved:
Residential Wastewater Rate Current \$	0	Number of h	nouseholds ser	ved:
Stormwater:		Number of h	nouseholds ser	ved:

Form OPWC0001 Rev. 12.15 Page 3 of 6

4.3 Project Description	
A: SPECIFIC LOCATION (Supply a written location description that includes map does not replace this requirement.) 2000 character limit.	the project termini; a

The Airport Access Road NB bridge over Stonequarry Road. approximately 1 mile south of US 40.

Form OPWC0001 Rev. 12.15 Page 4 of 6

B:	IDENTIFY THE PROBLEM (Describe the issue to be addressed)	2000 character limit.
	The original concrete bridge deck is deteriorating and sections of concrete are crumbling and causing several potholes. On the underside of the deck concrete is popping off and rebar is being exposed.	

Form OPWC0001 Rev. 12.15 Page 4 of 6

C: PROJECT SCOPE (Describe the work to be completed) 2000 character limit.

With this project we will perform hydro demolition of the existing concrete bridge deck and repour 1,75" of superplasticized concrete overlay. Mill and resurface the existing approach pavement. Perform any full depth repairs as needed. Also perform concrete patching to the underside of the deck.

Form OPWC0001 Rev. 12.15 Page 4 of 6

#### 5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

5.1 Chief Executive Officer	(Person a	n authorized in legislation to sign project agreements)				
	Name:	Dan Wendt				
	Title:	City Manager				
	Address:	245 James E. Bohanan Memorial Driv	ve			
	City:	Vandalia	State: OH	_ Zip: <u>45377</u>		
	Phone:	937-415-2258				
	FAX:					
	E-Mail:	dwendt@vandaliaohio.org				
5.2 Chief Financial Officer	(Can not a	also serve as CEO)				
	Name:	Bridgette Leiter				
	Title:	Director of Finance				
	Address:	333 Bohanan Drive				
	City:	Vandalia	State: OH	Zip: <u>45377</u>		
	Phone:	937-898-5891				
	FAX:					
	E-Mail:	bleiter@vandaliaohio.org				
5.3 Project Manager						
	Name:	Rob Cron		· · · · · · · · · · · · · · · · · · ·		
	Title:	Director of Public Service				
	Address:	333 Bohanan Dr.				
	City:	Vandalia	State: OH	Zip: <u>45377</u>		
	Phone:	(937) 415-2323				
	FAX:					
	E-Mail:	rcron@vandaliaohio.org				

Form OPWC0001 Rev. 12.15 Page 5 of 6

#### 6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- A certification signed by the applicant's chief financial officer stating the amount of <u>all local share</u> funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's <u>seal or stamp and signature.</u>

A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.

Farmland Preservation Review - The Governor's Executive Order 98-IIV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.

Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.

Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

#### 7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Certifying Representative (Printed form, Type or Print Name and Title)
Original Signature / Date Signed

Form OPWC0001 Rev. 12.15 Page 6 of 6

# CITY OF VANDALIA MONTGOMERY COUNTY, OHIO RESOLUTION 22-R-57

A RESOLUTION AUTHORIZING THE CITY MANAGER OR HIS DESIGNEE TO PREPARE AND SUBMIT AN APPLICATION TO PARTICIPATE IN THE OHIO PUBLIC WORKS COMMISSION STATE CAPITAL IMPROVEMENT AND/OR LOCAL TRANSPORTATION IMPROVEMENT PROGRAM(S) AND AUTHORIZING ADDITIONAL ACTION AS NECESSARY FOR THE CITY TO PARTICIPATE IN SUCH PROGRAMS WITH RESPECT TO THE AIRPORT ACCESS ROAD NB BRIDGE DECK REHABILITATION PROJECT

WHEREAS, the State Capital Improvement Program and the Local Transportation Improvement Program both provide financial assistance to political subdivisions for certain capital improvements to public infrastructure that are qualified projects under Ohio Public Works Commission programs; and

WHEREAS, the City of Vandalia is planning to make capital improvements for the project known as the Airport Access Road NB Bridge Deck Rehabilitation project;

WHEREAS, the Airport Access Road NB Bridge Deck Rehabilitation project is considered to be a priority need for the City and is a qualified project under the Ohio Public Works Commission programs.

NOW, THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF VANDALIA, MONTGOMERY COUNTY, OHIO, THAT:

<u>Section 1</u>. The City Manager or his designee, is hereby authorized to apply to the Ohio Public Works Commission for State Capital Improvement Program and/or Local Transportation Improvement Program financial assistance funds relating to the capital improvements to public infrastructure for the Airport Access Road NB Bridge Deck Rehabilitation project.

<u>Section 2</u>. The City Manager is further authorized to enter into any agreements as may be necessary and appropriate that are not averse to the interest of the City that are necessary to apply for this financial assistance.

<u>Section 3.</u> Council finds and determines that all formal actions of this Council and any of its committees concerning and relating to the passage of this legislation were taken in an open meeting of this Council and any of its committees, and that all deliberations of this Council and any of its committees that resulted in those formal actions were in meetings open to the public, all in compliance with the law including Section 121.22 of the Ohio Revised Code.

Section 4. This resolution shall become effective immediately upon its passage.

Passed this 15th day of August 2022.

APPROVED:

Richard Herbst, Mayor

Daniel D. Wendt. Clerk of Council

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Passed this 15th day of August 2022.

APPROVED:

Richard Herbst, Mayor

ATTEST.

Daniel D. Wendt, Clerk of Council



#### CHIEF FINANCIAL OFFICER'S CERTIFICATION OF LOCAL FUNDS/ LOAN REPAYMENT LETTER

I, Director of Finance of the City of Vandalia, Ohio, hereby certify that the City of Vandalia has the amount of \$253,268 in the general fund and that this amount will be used to pay the local share for the Airport Access Road NB Bridge Rehabilitation Project.

Budgette Leiter
Bridgette Leiter

Director of Finance

#### DETAILED ENGINEER'S ESTIMATE / USEFUL LIFE STATEMENT

# NORTHBOUND AIRPORT ACCESS ROAD OVER STONEQUARRY ROAD CITY OF VANDALIA, MONTGOMERY COUNTY 8/3/22 - DWS

#### ESTIMATED CONSTRUCTION COSTS

REF NO.	ODOT	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT COST	TOTAL COST
1	441	ASPHALT CONCRETE, MISC.: MILL AND RESURFACE APPROACH PAVEMENT	80	SQ YD	\$75.00	\$6,000
2	512	SEALING OF CONCRETE SURFACES (EPOXY- URETHANE), AS PER PLAN	250	SQ YD	\$45.00	\$11,250
3	512	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	23	SQ YD	\$50.00	\$1,150
4	512	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	250	SQ YD	\$30.00	\$7,500
5	516	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	92	FT	\$50.00	\$4,600
6	519	PATCHING CONCRETE STRUCTURE, AS PER PLAN	40	SQ FT	\$200.00	\$8,000
7	614	MAINTAINING TRAFFIC	1	LUMP	\$50,000.00	\$50,000
8	614	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	32	HOUR	\$100.00	\$3,200
9	614	WORK ZONE IMPACT ATTENUATOR	2	EACH	\$6,000.00	\$12,000
10	614	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	5	CU YD	\$300.00	\$1,500
11	614	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	3	SNMT	\$2,000.00	\$6,000
12	616	WATER	10	MGAL	\$40.00	\$400
13	623	CONSTRUCTION LAYOUT STAKES AND SURVEYING	1	LUMP	\$5,000,00	\$5,000
14	624	MOBILIZATION	1	LUMP	\$20,000.00	\$20,000
15	642	EDGE LINE, 4"	0.3	MILE	\$20,000.00	\$6,000
16	642	LANE LINE, 4"	0.15	MILE	\$20,000.00	\$3,000
17	659	SEEDING AND MULCHING, AS PER PLAN	50	SQ YD	\$20.00	\$1,000
18	848	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1 3/4" THICK)	860	SQYD	\$85.00	\$73,100

19	HAX	SURFACE PREPARATION USING HYDRODEMOLITION (D = 1 3/4"), AS PER PLAN	860	SQ YD	\$150.00	\$129,000
20	8/18	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	2	CU YD	\$1,000.00	\$2,000
21	848	HAND CHIPPING	2	SQ YD	\$500.00	\$1,000
22	848	TEST SLAB	1	LUMP	\$5,000.00	\$5,000
23	848	FULL DEPTH REPAIR	14	CU YD	\$2,000.00	\$28,000

**Construction Cost** 

\$384,700

10% Contingency

\$38,470

TOTAL CONSTRUCTION COST

\$423,200

THE ESTIMATED USEFUL LIFE OF THE NORTHBOUND AIRPORT ACCESS ROAD OVER STONEQUARRY ROAD IS 30 YEARS.

ENGINEER'S SEAL - DANIEL W. SPRINGER, P.E. (OH #69627)



A weighted useful life statement stamped/sealed and signed by a licensed professional engineer must be included with the project application.

This spreadsheet has formulas to make a weighted useful life calculation and is populated with an example for illustrative purposes. Items can be added to column a.

# NORTHBOUND AIRPORT ACCESS ROAD OVER STONEQUARRY ROAD CITY OF VANDALIA, MONTGOMERY COUNTY 9/16/22 - DWS

#### Weighted Useful Life & Design Service Capacity Calculations

Major Component	Cost (\$1,000)	Portion Repair / Replacement (%)	Repair / Replace Product	Useful Life (Years)	Useful Life Product
Full-depth road construction w/ drainage Full-depth road construction				25	
w/o drainage Partial-depth road construction w/ drainage Partial-depth road				25 15	
construction w/o drainage Storm Sewers Sanitary Sewers Water Lines	6	100	600	15 40 40 40	90
Bridge Pumps, Lift Stations Sidewalks Bike Facility	271	100	27100 <mark> </mark>	30 15 25 7	8130
Totals	277		27700		8220

Weighted Useful Life:

29.7 Years

Design Service Capacity (Project Application, Section 2.0):

Portion Repair / Replace

100 %

Portion New / Expansion

%

The bridge repairs consist of a new deck overlay and subsructure patching. These repairs typically have a useful life of 30 years.



# OHIO PUBLIC WORKS COMMISSION DISTRICT 4

### Round 2022-2023 Supplemental Questionnaire

Applicant:								
Project Title:								
Application S	Summary:							
Briefly describe	Briefly describe the project:							

υ	rı	O	rı	ΙΤ١	. /	
		U		יטו	y	

Is this application your priority project? (Circle One)	
Yes	No

#### Generation of Revenue:

Will new user fees or assessments be assessed as part of this project? (Circle One)									
Yes	No								
What will the new user fees or assessments be used for?									

#### Additional Funding:

Will OPWC match, in part, a committed grant or loan? (Circle One)								
Yes No								
If no, was the project submitted to an appropriate agency for funding, but denied due to lack of funding? (Circle One)								
Yes – Appropriate Documentation Attached	No							

#### Readiness of Project:

Will this project be substantially underway on or before June 1, 2024? (Circle One)					
Yes	No				

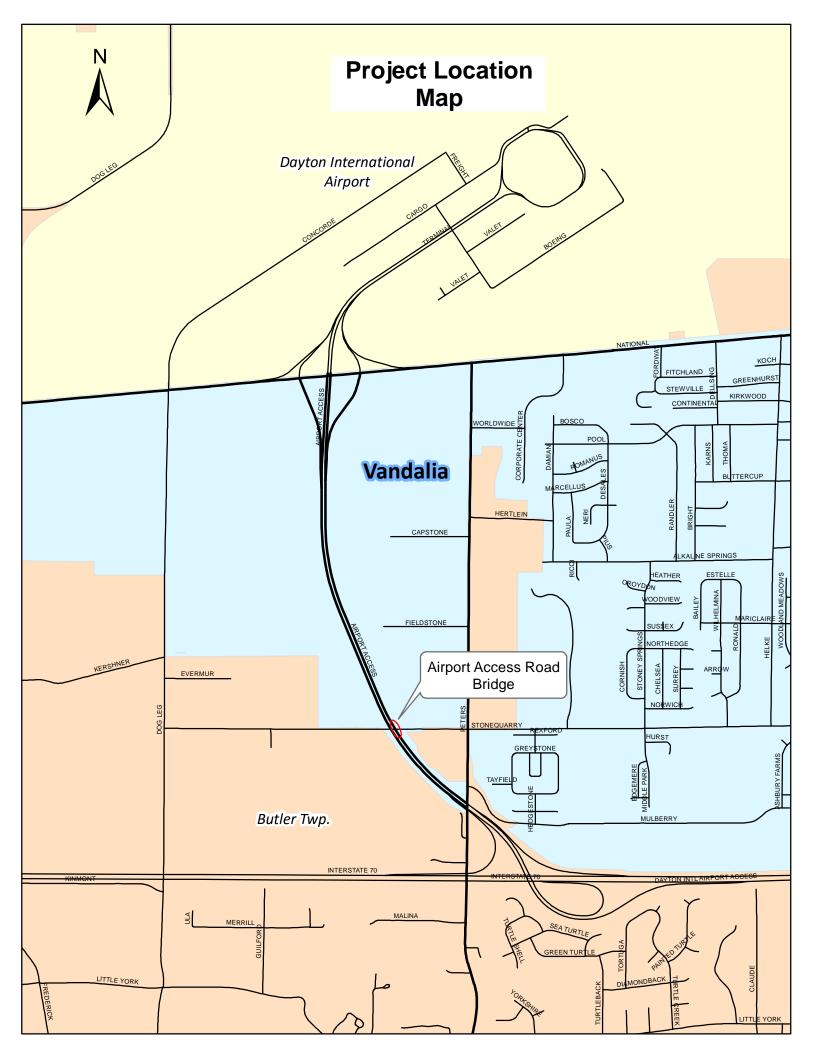
#### Health & Safety:

Describe the specific health or safety issue being addressed by this project. What deficiency or condition is causing the health or safety issue?

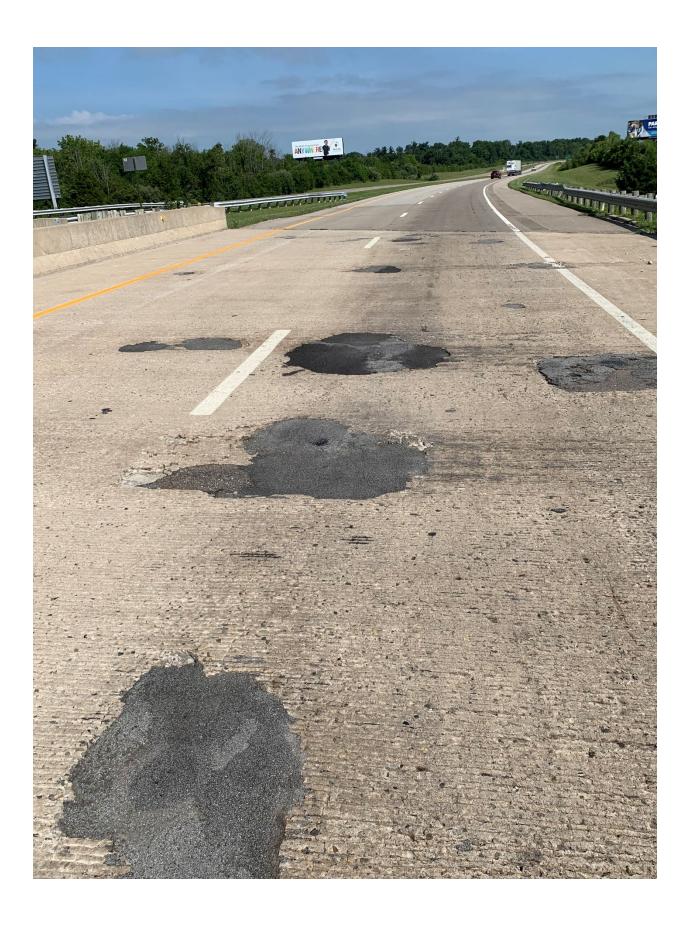
#### Addresses District Infrastructure Needs:

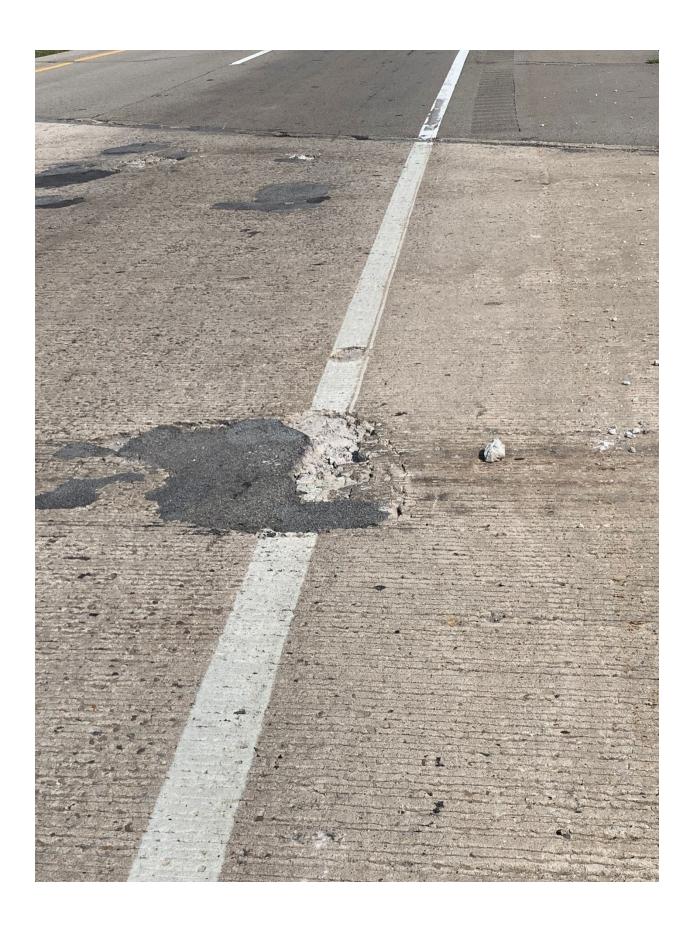
s this project located in more than one co	mmunity? (Circle One)	
Yes		No
What percentage of the community will be	e served by this project? (Circle (	One)
Less than 25%	25% to 40%	More than 40%
conomic Development		
How many jobs are being created as a resu	ult of this project?	
How many jobs will be retained as a result		
Why is it necessary to fund this improvement		
vity is it necessary to raile this improvem	ent to secure this development:	
What type of industry is proposed in this d	development?	
	•	
elieve Existing Traffic Congest	ion·	
Shore Existing Truffle Congest		
What is the level of service?		

# **Other Factors** What other factors exist that make this project more important than other like projects?

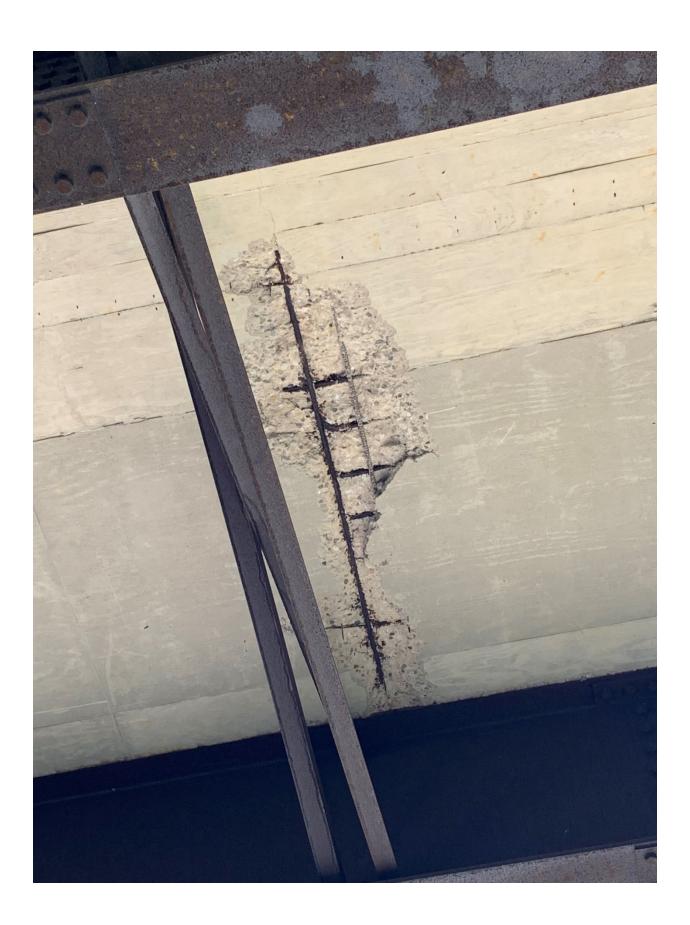
















# BRIDGE LOAD RATING SUMMARY REPORT OFFICE OF STRUCTURAL ENGINEERING OHIO DEPARTMENT OF TRANSPORTATION

OHIO DEPARTMENT OF TRANSPORTATION									
OFTRANS				FIKA	NSPORTATION	DISTRICT			
SFN	_		NUMBER						
576509		MOT-M0	MOT-M0705-0106N			7			
ORIGINAL CONS YEAR		REHABILITATION YEAR	OVERALL STRU LENGTH		TURE FEATURE INTERSECTED				
1982		N/A	149 ft		AIRPORT ACCESS	ROAD OVER STONE	QUARRY ROAD		
SPECIAL ASSUM COMME		Northbound three span ( overhang and skew since and 42'-0" o/o deck widt	e varied along the h. Future wearing	bridge lei surface i	ngth. HS20-44 & Alt. Mi not incorporated. Interi	litary Loading with 4 or beam controls th	40'-0" f/f parapets e rating.		
		PLEASE SELECT (	ON RIGHT, WHERE	E APPROF	PRIATE, BY USING THE I	DROP DOWN ARRO	W BUTTON		
LOAD RATING PUR	RPOSE:		8 - Սբ	odate Ana	alysis Model and Softwa	ire			
LOAD RATING SOF	TWARE:			3 - AASHTO BrR (VIRTIS)					
RATING SOURCE:			1 - Plan informat	ation available for load rating analysis (Default)					
RATING METHOD:			6 - Load Facto	or (LF) rat	ting reported by rating f	actor (RF)			
ORIGINAL DESIGN	LOADING:		6 - HS	20-44 & .	Alternate Military Loadi	ng			
			STRUCTURE RATII	NG SUMI	ИARY				
	ОНЮ І	EGAL VEHICLES		DESIGN VEHICLE					
Loading Type	GVW (Tons)	Operating Rating	Legal Weight		Loading Type	Design R	ating - RF		
Loading Type	GVW (10115)	RF	(Tons)		Loading Type	Operating	Inventory		
2F1	15	3.701	15.00		HS20 Loading	1.783	1.067		
3F1	23	2.453	23.00						
4F1 5C1	27 40	2.156 2.509	27.00 40.00		I Legal Posting Rating es not include EV's)	15	0%		
				•	•				
	1	AULING VEHICLES (SHV	•		RIDGE POSTING	No Load Posting	is Recommended		
SU4	27	2.163	27.00	RECOMMENDED BY RATING					
SU5	31	1.951	31.00						
SU6 SU7	34.75 38.75	1.759 1.623	34.75 38.75						
	1	ES (EV) - Check box to inc		P.	Sign Posting ecommendation:				
EV2	28.75	2.078	28.75	, Ac	.commendation.				
EV3	43	1.401	43.00						

AGENCY/FIRM/OFFICE		FTC&H	REPORT DATE:	12/1/2017	
RATED BY	PE NUMBER	PHONE NUMBER	EMAIL		
Jon Carroll	73100	513-247-8571	jpcarro	oll@ftch.com	
REVIEWED BY	PE NUMBER	PHONE NUMBER	33011111111111111111111111111111111111	EMAIL	
Troy Kyle	69311	614-363-1011, HILL A	ttkyle	@ftch.com	

BR-100\_SMS (3/2017)

12/1/2017

## OAKS Engineering, LLC dba Traffic Data Collection

Vandalia, OH

LOCATION: NB AIRPORT ACCESS RD 120' S OF STONEQUARRY

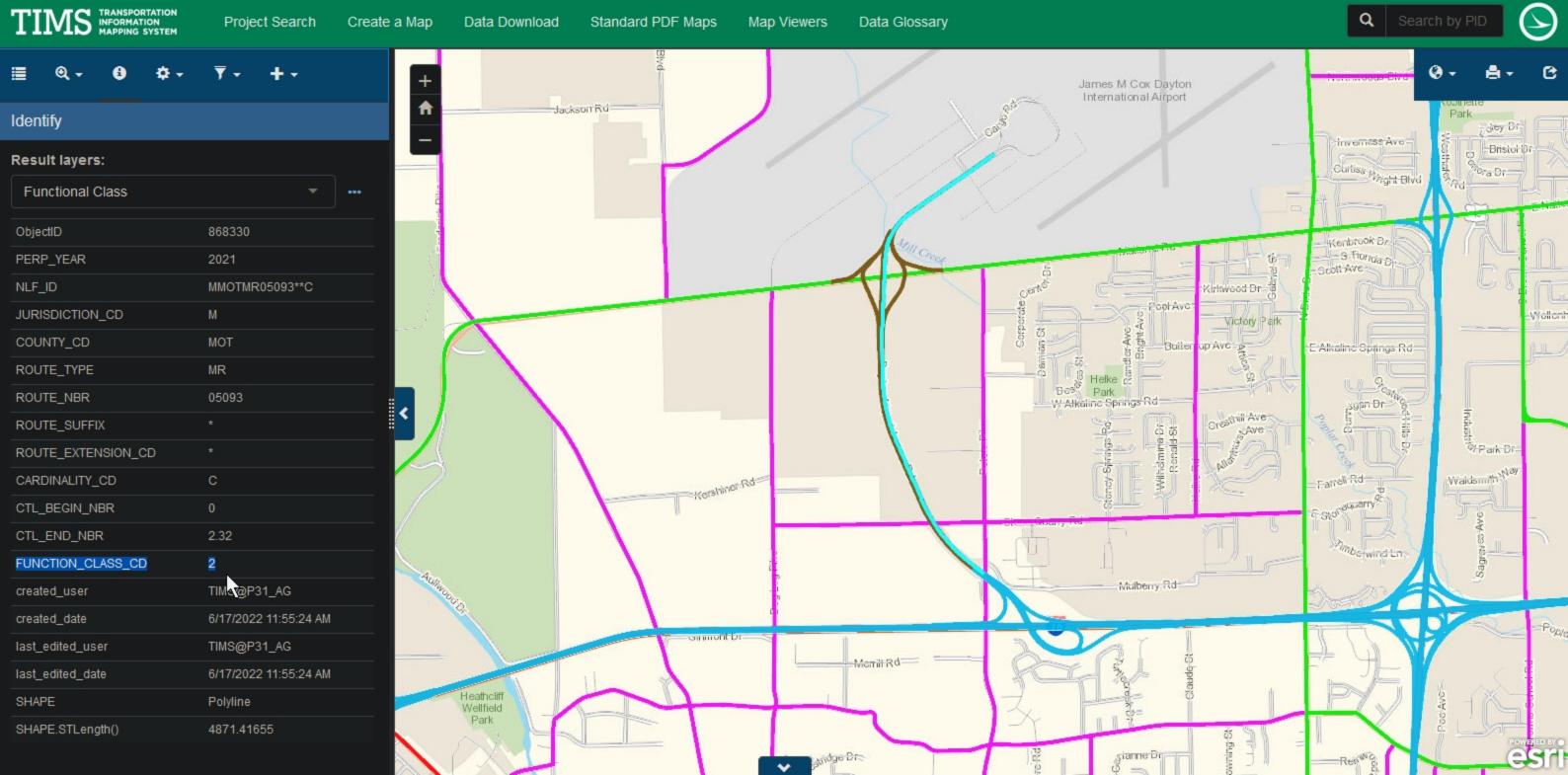
Direction: Combined

Direction, Con	ibiried	_														
40.1.100		> 228 -			> 474 -											
19-Jul-22	0.000 !	360 in.	> 360 -	> 429.6 -	480 in.	> 480 -	> 504 -	> 546 -	> 584.4 -	> 660 -	> 720 -	> 828 -	007.0	Total	Total	Total
Time	0 - 228 in. P	SU-30,M H	429.6 in. S-Bus 36	474 in. SU-40	CITY- BUS	504 in. P/B	546 in. WB-40	584.4 in. P/T	660 in. WB-50	720 in. A-BUS	828 in. WB-62	867.6 in. WB-67D	> 867.6 in.	Vehicles	Buses	Trucks +Buses
00:00	53	6	1	1	0	0	0	0		0	0		1	63	1	10
01:00	28	2	1	1	0	1	0	1	0	0	1	0	1	36	1	8
02:00	26	10	0	0	0	0	0	0	-	1	3	-	0	41	0	15
03:00	80	11	10	0	0	0	0	0	0	0	5	0	0	106	10	26
04:00	142	10	8	0	0	0	0	0	0	0	2	0	0	162	8	20
05:00	452	27	7	7	2	0	0	0	0	0	1	0	0	496	9	44
06:00	572	46	6	4	0	2	2	1	2	1	3	3	2	644	6	72
07:00	538	59	15	8	0	1	1	2	0	1	2	2	1	630	15	92
08:00	382	41	17	6	0	0	2	1	1	1	3	4	4	462	17	80
09:00	297	40	15	4	0	0	2	0	0	1	4	3	2	368	15	71
10:00	259	50	17	5	1	2	0	0	3	3	3	4	0	347	18	88
11:00	287	51	13	3	0	2	3	1	0	0	5	4	4	373	13	86
12:00	382	46	16	6	1	1	2	0	0	1	3	2	5	465	17	83
13:00	424	46	16	10	1	1	2	1	4	0	8	4	3	520	17	96
14:00	419	39	12	3	1	2	1	1	3	2	9	0	0	492	13	73
15:00	418	55	10	11	1	4	4	0	0	0	5	4	1	513	11	95
16:00	451	53	7	2	1	3	1	0	0	0	6	2	1	527	8	76
17:00	488	36	8	2	2	1	1	0	1	0	4	2	2	547	10	59
18:00	317	31	3	4	0	1	0	0	0	0	3		1	362	3	45
19:00	221	19	3	1	0	1	0	0	1	0	1	0	2	249	3	28
20:00	170	15	2	2	0	0	0	0	0	0	1	3	0	193	2	23
21:00	122	17	5	2	0	1	0	0	0	0	1	0	2	150	5	28
22:00	128	8	1	0	0	1	0	0		0	2		0	142	1	14
23:00	96	5	0	1	0	0	0	0	0	1	4	0	0	107	0	11
Total	6752	723	193	83	10	24	21	8		12	79		32	7995	203	1243
% Total	84.5%	9.0%	2.4%	1.0%	0.1%	0.3%	0.3%	0.1%	0.2%	0.2%	1.0%	0.5%	0.4%	100.0%	2.5%	15.5%
AM Peak	06:00	07:00	08:00	07:00	05:00	06:00	11:00	07:00	10:00	10:00	03:00	08:00	08:00	06:00	10:00	07:00
MID Deal	572	59	17	8	2	2	3	2		3	5	4 40.00	4 40.00	644	18	92
MID Peak	13:00	15:00	10:00	15:00	10:00	15:00	15:00	11:00	13:00	10:00	14:00	10:00	12:00	13:00	10:00	13:00
DM Deels	424	55	17	11	17:00	4 4 5 . 0 0	45.00	12:00	42.00	3	9	42.00	5	520	18	96
PM Peak	17:00	15:00	12:00	15:00	17:00	15:00	15:00	13:00	13:00	14:00	14:00	13:00	12:00	17:00	12:00 17	13:00
Grand Total	488 6752	55 723	16 193	11 83	10	24	<u>4</u> 21	1 8	<u>4</u> 15	2 12	9 79	43	5 32	547 <mark>7995</mark>	203	96 1243
% Grand	84.5%	9.0%	2.4%	1.0%	0.1%	0.3%	0.3%	0.1%	0.2%	0.2%	1.0%	0.5%	0.4%	100.0%	2.5%	15.5%
% Grand Total		3.0%	2.470	1.070	0.176	0.5%	0.5%	0.176	0.270	0.270	1.0%	0.5%	0.470	100.0%	2.5%	13.370
· Ottai	I	I												1		

ADT Calculation:

Wed: 7995 x 0.900 =>>> **7196 ADT** 

1



# 2021 Rural Seasonal Adjustment Factors (All Vehicles)

Group RURAL INTERSTATE (R01)									
F	rom Year:	2021		To Year:	2021				
	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
Jan	1.672	1.257	1.236	1.208	1.165	1.095	1.348		
Feb	1.527	1.449	1.438	1.207	1.211	1.064	1.360		
Mar	1.213	1.118	1.080	1.043	1.040	0.910	1.099		
Apr	1.098	1.021	1.035	1.035	0.960	0.853	1.059		
May	1.051	1.024	1.023	0.990	0.910	0.814	0.992		
Jun	0.941	0.947	0.955	0.935	0.876	0.780	0.916		
Jul	0.912	0.931	0.942	0.911	0.846	0.743	0.878		
Aug	0.937	0.951	0.971	0.931	0.866	0.777	0.910		
Sep	1.024	0.995	1.008	0.999	0.912	0.791	0.980		
Oct	1.020	0.988	0.994	0.963	0.908	0.808	0.995		
Nov	1.151	1.017	0.983	1.004	0.966	0.851	1.044		
Dec	1.215	1.064	1.031	1.007	0.995	0.905	1.122		

	Group RURAL OTHER PRINCIPAL ARTERIAL (R03)									
F	rom Year:	2021		To Year:	2021					
	Sun	Mon	Tue	Wed	Thu	Fri	Sat			
Jan	1.836	1.163	1.124	1.105	1.073	1.017	1.356			
Feb	1.607	1.309	1.371	1.117	1.162	1.012	1.318			
Mar	1.349	1.037	1.002	0.982	0.987	0.897	1.109			
Apr	1.240	0.971	0.959	0.964	0.925	0.845	1.082			
May	1.180	0.974	0.952	0.930	0.885	0.828	1.012			
Jun	1.100	0.938	0.921	0.919	0.869	0.819	0.997			
Jul	1.137	0.953	0.933	0.909	0.879	0.817	1.010			
Aug	1.139	0.951	0.938	0.925	0.878	0.819	1.010			
Sep	1.171	0.957	0.953	0.954	0.887	0.798	1.024			
Oct	1.179	0.966	0.946	0.928	0.893	0.821	1.028			
Nov	1.323	0.990	0.950	0.954	0.944	0.850	1.101			
Dec	1.340	1.015	0.983	0.968	0.952	0.883	1.126			

	Group	RURAL FRE	EWAY EXP	RESSWAY	(R02)		
F	rom Year:	2021		To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.777	1.190	1.141	1.113	1.082	1.051	1.348
Feb	1.621	1.352	1.301	1.126	1.156	1.038	1.310
Mar	1.305	1.073	1.023	0.991	0.996	0.905	1.094
Apr	1.234	1.021	0.994	0.989	0.949	0.871	1.098
May	1.134	1.019	0.986	0.954	0.900	0.817	1.005
Jun	1.009	0.967	0.947	0.920	0.878	0.784	0.943
Jul	1.004	0.948	0.940	0.899	0.864	0.759	0.921
Aug	1.010	0.957	0.946	0.923	0.873	0.784	0.937
Sep	1.109	1.010	0.986	0.977	0.908	0.799	0.995
Oct	1.164	1.005	0.975	0.949	0.914	0.828	1.039
Nov	1.320	1.019	0.967	0.970	0.954	0.859	1.117
Dec	1.318	1.028	0.975	0.963	0.953	0.884	1.099

Group		RURAL MINOR ARTERIAL (R04)						
F	rom Year:	2021		To Year:	2021			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Jan	1.850	1.166	1.124	1.104	1.088	1.026	1.330	
Feb	1.623	1.282	1.331	1.093	1.118	1.007	1.254	
Mar	1.409	1.033	0.996	0.977	1.003	0.908	1.074	
Apr	1.306	0.963	0.925	0.951	0.945	0.858	1.048	
May	1.204	0.954	0.933	0.919	0.871	0.836	0.966	
Jun	1.138	0.954	0.920	0.924	0.881	0.835	0.947	
Jul	1.189	0.955	0.929	0.910	0.897	0.821	0.972	
Aug	1.178	0.953	0.938	0.919	0.885	0.822	0.944	
Sep	1.186	0.952	0.937	0.940	0.893	0.805	0.972	
Oct	1.267	0.976	0.948	0.923	0.913	0.833	0.969	
Nov	1.444	1.004	0.962	0.971	0.970	0.874	1.115	
Dec	1.392	1.023	0.984	0.973	0.967	0.896	1.147	

# 2021 Rural Seasonal Adjustment Factors (All Vehicles)

Group		RURAL MAJOR COLLECTOR,MINOR COLLECTOR,LOCAL (R05, 06, 07)						
From	Year:	2021	To Y	ear:	2021			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Jan	1.834	1.164	1.085	1.079	1.063	1.006	1.329	
Feb	1.688	1.330	1.356	1.109	1.184	1.043	1.313	
Mar	1.404	1.008	0.966	0.959	1.007	0.916	1.108	
Apr	1.268	0.935	0.877	0.927	0.952	0.867	1.075	
May	1.207	0.960	0.919	0.894	0.867	0.836	0.989	
Jun	1.161	0.969	0.912	0.931	0.887	0.862	0.985	
Jul	1.205	0.932	0.914	0.882	0.900	0.849	0.996	
Aug	1.161	0.935	0.912	0.886	0.887	0.838	0.976	
Sep	1.238	0.926	0.901	0.924	0.880	0.824	0.996	
Oct	1.281	0.958	0.923	0.904	0.899	0.847	1.033	
Nov	1.467	0.971	0.935	0.911	0.938	0.881	1.129	
Dec	1.430	0.999	0.960	0.967	0.949	0.898	1.159	

#### Seasonal Adjustment Factors 22 July 2022 | ODOT

The values in these tables are used to adjust short term traffic counts (24 or 48 hours in duration) to an Average Daily Traffic (ADT) volume.

The report contains the factors by functional class. A factor is calculated for each permanent count station for every day of the week, and sites in the same functional classification are then combined to develop an average factor for the day of the week for the given month.

These factors are intended to be used to adjust daily traffic counts. Hourly data was not analyzed to derive these factors. Therefore, they should not be applied to individual hours of the day. In addition, when using these factors, judgment should be used when atypical traffic patterns are encountered, such as volumes near major recreational areas (e.g. King's Island, Cedar Point, shopping centers, football and baseball stadiums, etc.)

# 2021 Urban Seasonal Adjustment Factors (All Vehicles)

	Group URBAN INTERSTATE (U01)							
F	rom Year:	2021		To Year:	2021			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Jan	1.808	1.169	1.113	1.097	1.075	1.031	1.358	
Feb	1.615	1.288	1.284	1.100	1.108	1.004	1.296	
Mar	1.371	1.038	0.995	0.972	0.985	0.906	1.118	
Apr	1.289	0.978	0.951	0.955	0.936	0.871	1.112	
May	1.224	0.974	0.942	0.921	0.883	0.847	1.048	
Jun	1.155	0.939	0.907	0.903	0.870	0.835	1.029	
Jul	1.175	0.931	0.908	0.884	0.862	0.817	1.020	
Aug	1.175	0.938	0.917	0.896	0.872	0.827	1.022	
Sep	1.229	0.954	0.935	0.926	0.881	0.828	1.057	
Oct	1.237	0.961	0.924	0.905	0.887	0.841	1.054	
Nov	1.351	0.970	0.929	0.926	0.916	0.857	1.104	
Dec	1.332	0.987	0.947	0.937	0.923	0.877	1.128	

	Group						
F	rom Year:	2021		To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.740	1.135	1.084	1.072	1.056	0.997	1.272
Feb	1.564	1.239	1.246	1.067	1.091	0.983	1.228
Mar	1.375	1.005	0.968	0.943	0.976	0.899	1.078
Apr	1.332	0.959	0.919	0.936	0.933	0.862	1.061
May	1.247	0.952	0.920	0.909	0.877	0.852	1.020
Jun	1.227	0.948	0.912	0.915	0.888	0.854	1.027
Jul	1.285	0.952	0.921	0.905	0.893	0.842	1.046
Aug	1.257	0.953	0.931	0.920	0.893	0.846	1.026
Sep	1.295	0.960	0.945	0.935	0.900	0.841	1.061
Oct	1.331	0.973	0.936	0.920	0.906	0.852	1.068
Nov	1.393	0.957	0.934	0.917	0.921	0.855	1.093
Dec	1.364	0.973	0.941	0.926	0.918	0.863	1.109

	Group	URBAN FRI	EEWAY EXP	RESSWAY	(U02)		
F	rom Year:	2021		To Year:	2021		
	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Jan	1.884	1.132	1.077	1.059	1.044	1.005	1.376
Feb	1.678	1.223	1.228	1.061	1.068	0.984	1.304
Mar	1.456	1.003	0.960	0.944	0.962	0.902	1.140
Apr	1.397	0.959	0.918	0.928	0.927	0.876	1.142
May	1.312	0.951	0.911	0.899	0.871	0.855	1.082
Jun	1.252	0.935	0.898	0.897	0.877	0.846	1.071
Jul	1.291	0.927	0.900	0.881	0.873	0.838	1.086
Aug	1.286	0.928	0.897	0.887	0.871	0.833	1.061
Sep	1.314	0.929	0.905	0.902	0.865	0.824	1.086
Oct	1.352	0.937	0.897	0.881	0.871	0.843	1.097
Nov	1.480	0.948	0.909	0.898	0.900	0.853	1.147
Dec	1.435	0.956	0.926	0.918	0.901	0.866	1.162

Group		URBAN MINOR ARTERIAL, COLLECTORS, LOCAL (U04,05,06,07)						
F	rom Year:	2021		To Year:	2021			
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Jan	1.831	1.129	1.026	1.012	1.007	0.959	1.329	
Feb	1.608	1.248	1.307	1.044	1.077	0.982	1.289	
Mar	1.384	0.960	0.923	0.908	0.936	0.880	1.110	
Apr	1.317	0.913	0.881	0.903	0.900	0.850	1.117	
May	1.260	0.922	0.891	0.879	0.849	0.838	1.038	
Jun	1.254	0.937	0.892	0.910	0.881	0.872	1.079	
Jul	1.308	0.929	0.910	0.896	0.907	0.869	1.122	
Aug	1.279	0.918	0.909	0.900	0.880	0.857	1.088	
Sep	1.324	0.948	0.918	0.924	0.870	0.829	1.083	
Oct	1.377	0.954	0.913	0.904	0.901	0.873	1.122	
Nov	1.478	0.968	0.941	0.928	0.953	0.894	1.197	
Dec	1.426	0.972	0.954	0.958	0.932	0.893	1.212	



#### Statement of Work No. 0123235A.00

This Statement of Work is incorporated into and governed by the Master Agreement dated May 20, 2020 between LJB Inc. ("LJB") and City of Vandalia, Ohio ("Client").

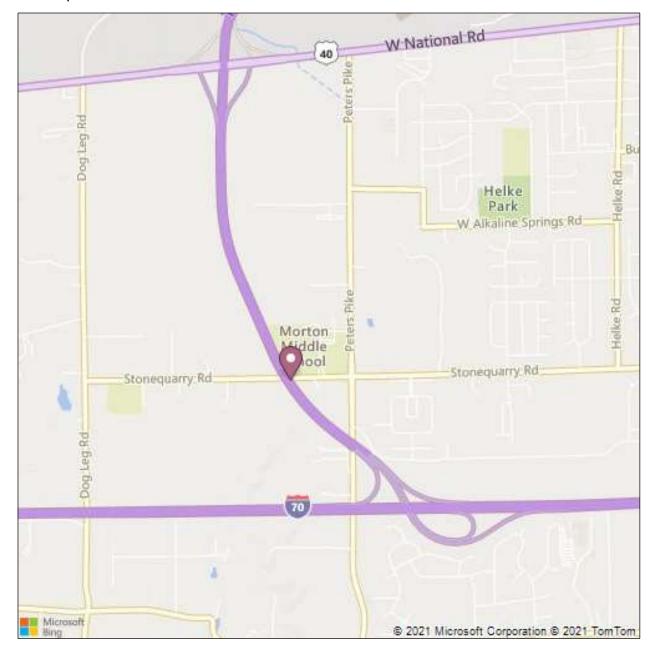
1.	Serv	vices and project description		
NB 202	-	oort Access Road Bridge Rehabilitation desig	gn, as deta	iled in the attached LJB proposal dated May 4,
2.	Prir	ncipal contacts		
		The project manager for LJB for this Statem Name: Dan Springer, PE, PMP Telephone number: 937-259-5192 Alternate telephone number: 937-475-9161	ent of Wo	rk is:
		Email address: dspringer ljbinc.com		
	b.	The principal contact for the Client for this S	Statement	of Work is:
3.		Name: Rob Cron Telephone number: 937-415-2323 Alternate telephone number: Email address: rcron@vandaliaohio.org edule		
٠,		Commencement Date: June 1, 2022		
		Statement of Work Expiration Date: Decem	iber 31, 20	123
,		·		
4.		arges for the services \$20,067.55 (Lump St	ım)	
5.		sonnel		
		Key client personnel: TBD		
	Ъ.	Other client personnel:		
6.	This	s Statement of Work is dated and made effect	tive as of:	May 17, 2022.
The	e par	ties have executed this Statement of Work be	elow by si	gnature of their authorized representatives.
CLI	IENT		LJB	
Cit	ty of	Vandalia	LJB Inc.	
Ву	<b>′</b> :	HER Direct	Ву:	Th. ). In
Na	ıme;	DANJEL D WENDT	Name:	Thimes J. Laufic
Tit	tle:	CITY MANAGER	Title:	Principal
Da	ate:	5/17/22	Date:	5-17-2022
			ty represei	nts that he or she is legally authorized to sign on
(	mair	LJB INC. INITIALS	_	CLIENT'S INITIALS PAGE 1 OF 1
rov	ved	as to Form		TAGETOFT
101	veu	as to rolli		

Inspector: Larry Ivory Structure Number: 5765099

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

**Bridge Inspection Report** 

#### Location Map



Latitude: 39.87114 Longitude: -84.23122

#### MOT-M0705-0106N\_(5765099) ODOT District: 07

04 - City or Municipal Highway Major Maint:

FIPS Code:

Routine Maint: Agency 04 - City or Municipal Highway

Inspector

Feature Inters: Agency 79492 - VANDALIA (MOT county)

Ivory,Larry

Facility Carried: AIRPORT ACCESS

STONEQUARRY ROAD

Location: CITY OF VANDALIA

Inspection Date 06/07/2021

Traffic On: 1 - Highway

Traffic Under: 1 - Highway, with or w/out pedestrian 0.8 MI N OF I-70 Exit 32

Reviewer Ivory,Larry

07/01/1982 Date Built:

Rehab Date:

Insp. 04 - City or Municipal Resp A: Highway Agency Insp Blank

Insp Resp B:

#### **National Bridge Inventory**

Status Sufficiency Rating 0 - ND 93.4

Identification			Inspections			
(1) State Code	395 - Ohio		(90) Inspection Date		06/07/20 21	
(8) Structure File Number (SFN)	5765099		(91) Designated Inspection Frequency			24
(7) Facility Carried	AIRPORT ACCES	SS	(92) Critical Feature Inspection			(93) CFI Date
(208) Route on the Bridge	40 - County		A. Fracture Critical Detail	N	0	
	40 - County		B. Underwater Inspection	N	0	
(2) Highway Agency District	07		C. Other Special Inspection	n N	0	
(3) County Code	57 - Montgomery		D.01 Snooper Inspection	N	0	
(209) Interstate Mile Marker			E.01 Drone Inspection	N	0	
(201) Special Designation	N			Conditio	n .	
(4) Place Code (FIPS)	79492 - VANDALI	A (MOT county)				
(5) Inventory Route			(58) Deck	7 - Good Condition		
(A) Record Type On/Under Always "On"	1: Route carried "o	on" the structure				
(B) Route Signing Prefix (Highway System)	4 - COUNTY HIGHWAY		(58.01) Wearing Surface	6 - Satisfactory (1-10% dis		stress)
(C) Designated Level of Service (Highway Designation)	1 - MAINLINE		(58.02) Expansion Joint	2) Expansion Joint N- Not Applicable		
(D) Route Number	00705		(50) 0	7 - Good Condition		
(E) Directional Suffix	0 - NOT APPLICA	BLE	(59) Superstructure			
(6) Features Intersected	STONEQUARRY	ROAD	(50.04) D	7 - Good (1-5% corr.)		
(9) Location	0.8 MI N OF I-70 E	Exit 32	(59.01) Protective Coating System (PCS)			
(11) Milepoint	01.060		(20) 2 1	8 - Very Good Condition		
(12) Base Highway Network	Inventory Route is	on the Base Network	(60) Substructure			
(13A) LRS Inventory Route				N - Not Applicable		
(13B) Subroute Number			(61) Channel & Channel Protection			
(16) Latitude	39.87114	Degrees				
(17) Longitude	-84.23122	Degrees	(61.01) Scour	N - Not Applicable		
(16.01) Latitude - Ohio	39.8711397					
(17.01) Longitude - Ohio	-84.2312152		(62) Culvert	N - Not Applicable		
(98A) Border Bridge State Code			(07.04) 0	- 0 :-		
(98B) Border Bridge State Percent Responsibility (99) Border Bridge Struct No.			(67.01) General Appraisal	/ - Good Con	idition (some	e minor problems)

#### MOT-M0705-0106N\_(5765099)

Major Maint: 04 - City or Municipal Highway

ODOT District: 07

(43) Main Structure Type

FIPS Code:

Facility Carried: AIRPORT ACCESS Traffic On: 1 - Highway Traffic Under: 1 - Highway, with or w/out

Insp. 04 - City or Municipal Resp A: Highway Agency Insp

07/01/1982

Resp B:

**Load Rating and Posting** 

6 - HS 20+Mod

Date Built:

Rehab Date:

6 - Load Factor (LF) rating reported by rating

6 - Load Factor (LF) rating reported by rating

factor (RF) method using MS18 loading.

factor (RF) method using MS18 loading.

5 - Equal to or above legal loads

Agency 04 - City or Municipal Highway Routine Maint

Agency 79492 - VANDALIA (MOT county)

STONEQUARRY ROAD Feature Inters:

Location: CITY OF VANDALIA

pedestriar 0.8 MI N OF I-70 Exit 32

(31) Design Load

Method

Factor

Method

(63) Operating Rating

(64) Operating Rating

(65) Inventory Rating

or Closed to Traffic

(70) Bridge Posting

(70.01) Date Posted

(70.02) Posted Sign Type

(70.03) Posted Weight

(66) Inventory Rating Factor

(41) Structure Open, Posted, A - Open

Reviewer Ivory,Larry Inspector Ivory,Larry Inspection Date 06/07/2021

Structure Type and Material

02 - Stringer/Multi-beam or Girder

C. N- Not Applicable

A. 4 - Steel continuous

(44) Approach Type 1 - Concrete

01 - Slab

N- Not Applicable

(45) Number of Spans in Main Unit 3

(46) Number of Approach Spans

(107) Deck Structure Type 1 - Concrete Cast-in-Place

(107.01)Blank

(108B) External Deck

Protection

0 - None

(108C) Internal Deck

Protection

8 - Unknown

(422) Wearing Surface Date

01/01/1982

(108A) Wearing Surface Type

1 - Monolithic Concrete (concurrently

placed with structural deck)

in

(108A.01)N- Not Applicable

(423) Wearing Surface

Thickness

(483) Protective Coating

System Date

**Appraisal** 

(67) Structural Evaluation 7 - Better than present minimum criteria

(68) Deck Geometry 6 - Equal to present minimum criteria

(69) Underclearances, Horizontal and Vertical 4 - Meets minimum tolerable limits

Age of Service

1.0

(27) Year Built 1982

07/01/1982 (263) Date Built

(106) Year Reconstructed 0000

(264) Major Reconstruction Date

(42) Type of Service On 1 - Highway

Under 1 - Highway, with or w/out pedestrian

(28) Lanes On 02 Under 02

(29) Average Daily Traffic 14854

(30) Year of Average Daily Traffic 2021

(109) Average Daily Truck Traffic Percentage 5

(19) Bypass Detour Length

(72) Approach Roadway Alignment

(71) Waterway Adequacy

8 - Equal to present desirable criteria

(36) Traffic Safety Feature

A. Bridge Railings: 1 - Meets acceptable standards

B. Transitions: 0 - Does not meet acceptable standards/safety

N - Not Applicable

feature is required

C. Approach Guardrail 0 - Does not meet acceptable standards/safety

feature is required

D. Approach Guardrail Ends 1 - Meets acceptable standards

(113) Scour Critical N - Not over waterway

3

#### MOT-M0705-0106N\_(5765099)

Major Maint: 04 - City or Municipal Highway

ODOT District: 07

Agency
Routine Maint:
04 - City or Municipal Highway
Agency
FIPS Code:
79492 - VANDALIA (MOT county)

Facility Carried: AIRPORT ACCESS STONEQUARRY ROAD Feature Inters:

Traffic On: 1 - Highway

Date Built: Rehab Date:

Traffic Under: 1 - Highway, with or w/out pedestrian 0.8 MI N OF I-70 Exit 32

Insp. 04 - City or Municipal Resp A: Highway Agency Insp. Blank

20617

2041

07/01/1982

Insp Resp B:

Ivory,Larry

Location: CITY OF VANDALIA Inspection Date 06/07/2021

Reviewer Ivory,Larry

	Classification	Geometric Data					
(112) NBIS Bridge	Yes	(48) Longest Span	53.0	Ft.			
(104) Highway System of the Inventory Route	1 - Structure/Route is on NHS	(49) Structure Length	149.0	Ft.			
(26) Functional Classification of Inventory Route	12 - Urban - Principal Arterial - Other Freeway or Expressway	(50A) Curb/Sidewalk Left Side - Width	0	Ft.			
,	,	(50B) Curb/Sidewalk Right Side - Width	0	Ft.			
(100) Strahnet Highway Designation	Not a STRAHNET route	(51) Brdg Roadway Width Curb-to-Curb	38.8	Ft.			
(101) Parallel Structure Designation	N - No parallel structure	(52) Deck Width, Out-to-Out	41.8	Ft.			
(102) Direction of Traffic	1-way traffic	(32) Approach Roadway Width	36.0	Ft.			
(103) Temporary Structure Design		(33) Bridge Median 0 - No median					
(105) Federal Lands Highways	Not Applicable	(34) Skew	31	Deg.			
(110) Designated National Network	Inventory route not on network	(35) Structure Flared 0 - No flare					
(20) Toll	3 - On Free Road	(10) Practical Maximum Vertical Clearance	99	Ft.			
(225) Routine Maintenance Responsibility	A. 04 - City or Municipal Highway Agency	(53) Minimum Vertical Clearance Over Bridge Roadway	99	Ft.			
	B. Blank	(47) Total Horizontal Clearance (Inventory Route)	38.8	Ft.			
(21) Maintenance Responsibility	04 - City or Municipal Highway Agency						
(21B) Major Maint. Responsibility B	Blank	(54) Minimum Vertical Under Clearance	3. 15.5	Ft.			
(221) Inspection Program Responsibility	A. 04 - City or Municipal Highway Agency	A. H - Highway beneath structure					
, and the second	B. Blank	(56) Minimum Lateral Under Clearance on Left	4.6	Ft.			
(22) Owner	04 - City or Municipal Highway Agency	(55) Minimum Lateral Under Clearance on Right	3. 5.2	Ft.			
(37) Historical Significance	5-Not Eligible	A. H - Highway beneath structure					
N	lavigation Data	Proposed Improvements					
(38) Navigation Control	N - Not applicable, no waterway	(75) Type of Work					
(39) Nav Vert Clearance	0.0 Ft.	Α.					
(40) Nav Horizontal Clearance	0.0 Ft.	В.					
(111) Pier or Abutment Protection	1 - Navigation protection not required	(76) Length of Structure Improvement (FT) 0.0					
(116) Minimum Navigation Vertical Clearance, Vertical Lift Bridge	0.0 Ft.	(94) Bridge Improvement Cost \$ 0					
		(95) Roadway Improvement Cost \$ 0					
		(96) Total Project Cost \$ 0					
		(97) Year of Improvement Cost Estimate 00000	ı				

(114) Future Average Daily Traffic

(115) Year of Future Average Daily Traffic

Page	5	of	18
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Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

**Bridge Inspection Report** 

# **Pictures**



PHOTO 1 Condition

Description End view looking south.



PHOTO 2 Condition

Description End view looking north.

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

# Bridge Inspection Report

# **Pictures**



PHOTO 3 Condition

Description West fascia looking east.



PHOTO 4 Condition

Description East fascia looking west.

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

**Bridge Inspection Report** 

# **Pictures**



PHOTO 6 Condition

Description Looking at north face of pier 1, span 2.



PHOTO 7

Description Looking at south face Pier 2, Span 2.

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

**Bridge Inspection Report** 

# **Pictures**



PHOTO 8 Condition

Description Looking at north face of Pier 2, Span 3.



PHOTO 9 Condition

Description Looking at north Abutment Wall, Span 3.

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

**Bridge Inspection Report** 

# **Pictures**



PHOTO 10 Condition

Description PEJF protrudes from the NE corner of bridge seat in addition to a vertical crack in the backwall.

Inspection Date: 06/07/2021 Facility Carried: AIRPORT ACCESS

Bridge Inspection Report

# **Element Inspection**

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	3 - Mod.	6234	sq. ft.	5922	312	0	0
805 - Wearing Surface - Monolithic Concrete		5961	sq. ft.	5917	40	4	0
107 - Steel Open Girder/Beam	3 - Mod.	735	ft.	735	0	0	0
515 - Steel Protective Coating		12328	sq. ft.	10478	1850	0	0
205 - Reinforced Concrete Column	3 - Mod.	6	each	6	0	0	0
521 - Concrete Protective Coating		905	sq. ft.	905	0	0	0
215 - Reinforced Concrete Abutment	3 - Mod.	98	ft.	98	0	0	0
234 - Reinforced Concrete Pier Cap	3 - Mod.	97	ft.	97	0	0	0
521 - Concrete Protective Coating		1350	sq. ft.	1350	0	0	0
310 - Elastomeric Bearing	2 - Low	20	each	20	0	0	0
321 - Reinforced Concrete Approach Slab	3 - Mod.	2450	sq. ft.	2358	20	72	0
331 - Reinforced Concrete Bridge Railing	3 - Mod.	298	ft.	298	0	0	0
815 - Drainage	3 - Mod.	7	each	7	0	0	0

#### **Ohio Bridge Inventory**

#### General

(203) Bridge Name (Dedicated Name)

(204) Ohio Designated MPO 11 - MVRPC (Dayton)

(205) Route Number Extension Blank

NP - Non Preferred Route (206) Inventory Preferred Route

(5.01) Priority System Code (Inventory Route) N- Not Applicable (213) NLF\_ID Inventory Route CMOTCR00705\*\*C

(218) Major Bridge N - No

CITY OF VANDALIA (220) Inventory Location

(226) Seismic Susceptibility N - not applicable

N - No (236) Future Traffic Factor 1.388 (245) Aperture Cards Fabrication 2 - No (246) Aperture Cards Original 2 - No

(247) Aperture Cards Repair 2 - No

(248) Original Construction Project Number

(251) Standard Drawing Number

(252) Microfilm Reel Number

(261) Bridge Remarks

(227) GASB

(265) Electric Line Present N - Bridge does not carry a utility (266) Gas Line Present N - Bridge does not carry a utility (269) Sanitary Sewer Present N - Bridge does not carry a utility

(306) NBIS Bridge Length 149 (207) Route Under the Bridge 42

#### **Inventory Route Clearances**

Inventory Route	<u>Cardinal</u>	Non-Cardinal	
(336) Minimum Vertical Clearance	99	0	ft.
(335) Minimum Horizontal Clearance	38.8	0	ft.

	Load Rating
(717) 2F1 Operating Rating Factor (GVW 15 T)	3.701
(720) 3F1 Operating Rating Factor (GVW 23 T)	2.453
(723.01) 4F1 Operating Factor (GVW 27 T)	2.156
(726.01) 5C1 Operating Rating Factor (GVW 40 T)	2.509
(723.02) SU4 Operating Rating Factor (GVW 27 T)	2.163
(726.02) SU5 Operating Rating Factor (GVW 31 T)	1.951
(732.01) SU6 Operating Rating Factor (GVW 34.75 T)	1.759
(732.02) SU7 Operating Rating Factor (GVW 38.75 T)	1.623
(735) EV2 Operating Rating Factor (GVW 28.75 T)	2.078
(738) EV3 Operating Rating Factor (GVW 43 T)	1.401
(734) Ohio Percent Legal	140
(705) Load Rater First Name	Jon
(706) Load Rater Last Name	Carroll
(707) Load Rater PE Number	73100
(704) Load Rating Date	12/01/2017
(708) Load Rating Software	3 - AASHTO BrR (VIRTIS)
(709) Rating Source	1 - Plan information available for load rating analysis (Default)

## Inspection Access

(92.02) Snooper Inspection Traffic Control

Blank

(92.03) Snooper Inspection Est. Crew Hours

(459) Inspection Access

N - The bridge does not include this feature

Deck & Approach

(224) Temporary Subdecking N - No

(404) Approach Slab Type 1 - Reinforced Concrete

(405) Approach Slab Length 25

1 2 3

(406) Bridge Median Type N - None N - Non Barrier N - No Joint

 (407) Bridge Railing Type
 1 - Reinforced Concrete Parapet

 (408) Composite Deck Code
 N - Non-composite Construction

(419) Expansion Joint with Trough Retrofit 2 N - No
(421) Joint Trough (Y/N) N - No

(431) Fence N - The bridge does not include this feature

(432) Fence Height on Bridge 0

(433) Glare Screen N - The bridge does not include this feature

(434) Noise Barrier Walls N - The bridge does not have Noise Barrier Walls

 (424) Deck Area
 6228.2

 (427) Left Sidewalk/Curb Material
 N - None

(428) Left Sidewalk/Curb Type N - None or N/A (RR, Pedestrian, etc.)

(429) Right Sidewalk/Curb Material N - None

(430) Right Sidewalk/Curb Type N - None or N/A (RR, Pedestrian, etc.)

#### Substructure

(526) Abutment Forward Type 7 - Integral

(527) Abutment Forward Material Type 2 - Concrete

(528) Abutment Forward - Foundation Type 7 - Steel H Piles (HP 10 x 42)

(531) Abutment Rear Type 7 - Integral
(532) Abutment Rear Material Type 2 - Concrete

(533) Abutment Rear - Foundation Type 7 - Steel H Piles (HP 10 x 42)

(534) Pier 1 (Predominate) Type 5 - Capped Column

(535) Pier 1 (Predominate) Material 2 - Concrete

 $(536) \ Pier \ 1 \ Type \ - \ Foundation \ Type \\ \qquad \qquad 7 \ - \ Steel \ H \ Piles \ (HP \ 10 \ x \ 42)$ 

 (537) Pier 2 Type
 N - None

 (538) Pier 2 Material
 N - None

(539) Pier 2 Type - Foundation Type N - None (Such as most Culverts)
(547) Slope Protection Type 2 - Stone (No. 1 Aggregate)

Superstructure					
(711) Live Load Response		S - Satisfactory			
(468) Hinges/Pins/Hangers Type		N - Not Applicable (structures with no hinges)			
(409) Deck Drainage Type		3 - Scuppers and downspouts			
(411) Deck Concrete Type		2 - Class S Superstructure			
	Α	В	С		
(414) Expansion Joint Type	N - None	N - None	N - None		
(301) Horizontal Curve Degree		1.47			
(453) Bearing Device 1, Type		D - Integral & semi-integral abutment bearings			
(455) Bearing Device 2, Type		C - Elastomeric (laminated)			
(465) Framing Type		4 - Straight Beams/Girders			
(466) Haunched Girder		N - Bridge does not contain a haunched girder			
(467) Haunched Girder Depth		0			
(474) Main Structure System		3 - Four or More Girder Bridge			
(475) Main Member Type		1 - Rolled Steel			
(482) Protective Coating System Type		2 - Unpainted Weathered Steel			
(487) Structural Member Steel Type		1 - A588 (Weathering Steel)			
(498) Protective Coating System Surface Area		0			
(499) Structural Steel Paint		N - None (i.e. steel = A588, unpainted)			
(478) Post Tensioned Main Member Code		N - Bridge is not Post Tensioned			
		Culvert and Waterway			

Cu	Ivert	and	Wate	rwav

(575) Culvert Type N - Not a Culvert or Rigid Frame (578) Culvert Length Inlet\_to\_Outlet 0 (580) Fill Depth Over Culvert 0 (651) Scenic River N - Waterway is not classified as Scenic River (587) Rise (588) Shape (655) Channel Protection Type X - Not Applicable (663) Stream Velocity 0.0 (672) pH

## MOT-M0705-0106N\_(5765099)

Major Maint: 04 - City or Municipal Highway Routine Maint: Agency 04 - City or Municipal Highway

ODOT District: 07

Agency FIPS Code: 79492 - VANDALIA (MOT county)

Ivory,Larry

Facility Carried: AIRPORT ACCESS Feature Inters: STONEQUARRY ROAD

Location: CITY OF VANDALIA

0.8 MI N OF I-70 Exit 32 Inspection Date 06/07/2021

Traffic On: 1 - Highway

Traffic Under: 1 - Highway, with or w/out pedestrian Reviewer Ivory,Larry

Rehab Date: Insp. 04 - City or Municipal Resp A: Highway Agency

07/01/1982

Insp Resp B: Blank

Date Built:

## Inspector Comments - Deck and Approach

#### Deck

#### Floor/Slab (SF)

Isolated areas of delamination in all spans (< 5% total area). Majority of the delamination/efflorescence is seen adjacent to the North and South Abutment walls. Two spalls with expose rebar were seen in Span 3, the second spall is located along the top flange and on the eastside of Beam 1. A minimum of Ten locations were counted to have spalled with longitudinal and transverse rebars beginning to be exposed in Span 2. A good majority of these spalled locations appear to follow in line with the cross frames.

## **Bridge Wearing Surface (SF)**

Spalled areas patched with asphalt (6' x 4', 1' x 2', 3'x 2', and 2' diameter). Four spalled areas (2' diameter each). Hairline longitudinal and transverse cracks. Gravel along East shoulder.

#### **Approach**

## **Approach Wearing Surface (EA)**

Transverse, full-width crack up to 1/4" wide at South approach.

## Approach Slab (SF)

Asphalt wearing surface on both approach slabs. 10 ft section of the failed curb at the Southeast & Northeast corners; potholes adjacent to bridge limit. Edge of approach slab spalling at both bridge limits (up to full width x 1' x 3"deep).

#### Approach Guardrail (EA)

Wood blocks are used. 3 leaning posts at the Southeast end. Impact damage to Northeast guardrail.

## **Inspector Comments - General Appraisal**

#### <u>Superstructure</u>

#### **Protective Coating System (LF)**

Weathering steel with patina wear.

#### Substructure

#### **Abutment Walls (LF)**

PEJF is out of place 2' along Northeast corner of abutment near bearing,

#### Pier Caps (LF)

Sealed since 2019 inspection. At the time of the 2021 Inspection the Pier Caps appeared to have been provided with a new seal coat.

# Pier Columns/Bents (EA)

Sealed since 2019 inspection. At the time of the 2021 Inspection the Pier Columns appeared to have been provided with a new seal coat.

Culvert

Inspector Comments - Waterway

Waterway Adequacy

**Channel** 

**Scour Critical** 

MOT-M0705-0106N\_(5765099) ODOT District: 07

Major Maint: 04 - City or Municipal Highway

Routine Maint: Agency 04 - City or Municipal Highway Agency FIPS Code: 79492 - VANDALIA (MOT county)

Inspector Ivory,Larry

Facility Carried: AIRPORT ACCESS

Feature Inters: STONEQUARRY ROAD

Location: CITY OF VANDALIA

Inspection Date 06/07/2021

Traffic On: 1 - Highway Traffic Under: 1 - Highway, with or w/out pedestrian

0.8 MI N OF I-70 Exit 32 Reviewer Ivory, Larry

07/01/1982 Date Built:

Rehab Date:

Insp. 04 - City or Municipal Resp A: Highway Agency

Insp Blank Resp B:

# **Summary Recommendations**

NB bridge controls vertical clearance (15.5'). SB actual vertical clearance is ~17.0'.

Emailed City 6-2-20 to recommend underside deck delaminations that are located over Stonequarry Road be removed prior to harming motorists. At the time of the 2021 inspection several pieces of concrete had dislodged and fallen from the underside in Span 3.