

EV Gross:

056B00194N

Inspector: Stephanie Stoops

Entered by: SSTOOPS 12/11/2024

Standard (24 months)

IDENTIFICATION

 Structure Num (8):
 056B00194N

 NBI Number
 056B00194N

Structure Name:

 Location (9):
 0.1 MI S OF 1ST ST

 Carries (7):
 I-65 SB ON RAMP

Type of Service (42A): 1 Highway

Feature Crossed (6): E MUHAMMAD ALI BLVD

Type of Service (42B): 1 Highway Not Applicable Placecode (4): Jefferson (056) County (3): 21 Kentucky State (1): Inventory Admin Area: District: District 5 Latitude (16): 38° 15' 2" Longitude (17): 85° 45' 7"

Owner (22): State Highway Agency

Maint. Resp. (21): State Highway Agency

Year Built (27): Year Recon (106): 1963 Border State (98A): Not Applicable (P)

1980 Border Number (99):

% Responsibility (98B):

Fair	Hea	th Index:	83.77		
SubStd: No	Sub	Std Reason:	Not Sub-Standa		
Inspection Type	Freq (92)	Last Insp (93)	Next Insp		
Routine	24	12/11/2024	12/11/2026		
Element	24	12/11/2024	12/11/2026		
Fracture Critical (A)		1/1/1901	1/1/1901		
Underwater (B)		1/1/1901	1/1/1901		
Special Insp (C)		1/1/1901	1/1/1901		

#### LOAD RATING AND POSTING

Posting Status(41): A Open, no restriction
Posting (70): 5 At/Above Legal Loads

Signs Posted Cardinal: No Signs Posted Non-Cardinal: No

Recmd Date: Posted Date:

Required Postings (Tons.)
Gross:
Field Postings (Tons.)
Gross:

Truck Type 1: Truck Type 1: Truck Type 2: Truck Type 2: Truck Type 3: Truck Type 3: Truck Type 4: Truck Type 4: SUV 5: **SUV 5:** SUV 6: SUV 6: **SUV 7:** SUV 7: EV Single Axle: EV Single Axle: EV Tadem Axle: **EV Tadem Axle:** 

#### **DECK GEOMETRY**

Deck Geometry (68): 7 Above Min Criteria

**Deck Area:** 1,765.00 ft<sup>2</sup>

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

Wearing Surface (108A): 6 Bituminous

Membrane (108B): 0 None

Deck Protection (108C): 1 Epoxy Coated Reinforci

Approach Roadway width (32): 24.10 ft.

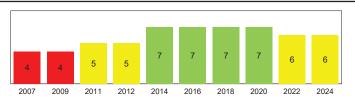
Width Curb to Curb (51): 24.10 ft.

O. to O. Width (52): 27.40 ft.

Curb / Sidewalk Width L (50A): 0.00 ft.

Curb / Sidewalk Width R (50B): 0.00 ft.

Median (33): 0 No median



EV Gross:

#### **DECK CONDITION**

Deck Rating (58):

Bridge Rail (36A):

Transition (36B):

Approach Rail (36C):

Approach Rail Ends (36D):

6 Satisfactory

0 Substandard

0 Substandard

0 Substandard

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#### SUPERSTRUCTURE GEOMETRY

# of Main Spans (45): 1 # of Approach Spans (46): 0 3 Steel Main Material (43 A):

Main Design (43 B): 02 Stringer/Girder

62.40 ft. Max Span Length (48): Structure Length (49): 64.40 ft. NBIS Length (37): Long Enough Temp Structure (103): Not Applicable (P)

7° Skew (34):

Structure Flared (35): 0 No flare

Parallel Structure (101): No || bridge exists Approach Alignment (72): 8 Equal Desirable Crit



#### SUPERSTRUCTURE CONDITION

Superstructure Rating (59): 7 Good

Structure Evaluation (67): 6 Equal Min Criteria

#### SUBSTRUCTURE GEOMETRY

NA-no waterway Navigation Control (38):

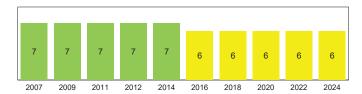
0.00 ft. Nav Vert Clearance (39): Nav Horiz Clearance (40): 0.00 ft.

Pier Protection (111): Not Applicable (P)

Lift Bridge Vertical Clearance (116):

N Not Over Waterway Scour Rating (113):

N Not applicable Waterway Adequacy (71):



SUBSTRUCTURE CONDITION

Substructure Rating (60): 6 Satisfactory

Channel Rating (61): N N/A (NBI)

#### KYTC FIELDS

Overlay: Yes Scour Observed: N/A Overlay Type: H T Polymer Asph Scour Risk: N/A

Overylay Thickness: 1.50 in. Scour Analysis/Assessment: Not Required Scour POA: **Overlay Year:** 2006 Not Required

**Cross Section:** Scour POA Date: Not Required

Next Cross Section Due Date: **Cross Section Date:** 

ROUTE UNDER STRUCTURE: E MUHAMMAD ALI BLVD ROADWAY CLASSIFICATION ROADWAY LOCATION

One Route Under Pos Prefix (5A): Kind of Hwy (5B): 5 City Street

Route Num (5D): 01048

LRS Route (13A/B):

Milepost (11): 1.01 mi Suffix (5E): 0 N/A (NBI)

Lanes Under (28B): Detour Length (19): 0.00 mi

Funct Class (26): 16 Urban Minor Arterial Level Service (5C): 0 None of the below NHS (104): 0 Not on NHS

Defense Hwy (100): 0 Not a STRAHNET hwy

Toll Facility (20): 3 On free road ADT (29): 7,708 Cars/Day

0.00% Pct Trucks (109): ADT Year (30): 2024

**CLEARANCES** 

Vertical (10): 16.60 ft. Min Vert Over (53): 99.99 ft.

H Hwy beneath struct Vert Ref (54A):

15.30 ft. Undrclearnce (54B): Horizontal (47): 40.00 ft. Min Lat Left (56): 8.00 ft. Min Lat Right (55B): 8.00 ft.

Horiz Ref (55A): H Hwy beneath struct

Underclearance (69): 4 Tolerable

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**CLEARANCES** 

99.99 ft.

99.99 ft.

H Hwy beneath struct

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ROUTE ON STRUCTURE: I-65 RAMP from S 1ST ST

ROADWAY LOCATION ROADWAY CLASSIFICATION

(5A): Route On Structure Funct Class (26): 11 Urban Interstate

Min Vort Over

Pos Prefix (5A): Route On Structure | Funct Class (26): 11 Urban Interstate | Min Vert Over (53): | Vert Ref (54A):

 Route Num (5D):
 00065
 NHS (104):
 1 On the NHS
 Undrclearnce (54B):
 15.30 ft.

 LRS Route (13A/B):
 Defense Hwy (100):
 1 On Interstate STRAHNET
 Horizontal (47):
 24.10 ft.

 Milepost (11):
 135.60 mi
 Toll Facility (20):
 3 On free road
 Min Lat Left (56):
 8.00 ft.

 Suffix (5E):
 0 N/A (NBI)
 ADT (29):
 84,001 Cars/Day
 Min Lat Right (55B):
 8.00 ft.

 Lanes On (28A):
 1
 Pct Trucks (109):
 16.00%
 Horiz Ref (55A):
 H Hwy beneath struct

 Detour Length (19):
 0.00 mi
 ADT Year (30):
 2012
 Underclearance (69):
 4 Tolerable

#### STRUCTURE NOTES

-In 2022, AECOM used infrared thermography to identify and locate areas of concrete delamination and overlay debonding in the deck, plus they obtained core samples for testing to determine chloride ion levels in the concrete. See Media tab for results.

-Structure has been reviewed and meets criteria set forth in the Inspection Interval Implementation Memo from FHWA sent June 13, 2022. Routine inspection can be extended to 48 months based on equivalent criteria per the Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, however the inspection will remain at 24-month inspection and will not be extended. EDV 11/25/2024

### **INSPECTION NOTES**

-Routine inspection performed b Stephanie Stoops and Marcella Kennedy. 12/11/2024

#### **SCOUR NOTES**

#### LOAD RATING NOTES

4/7/21 Controlling member is a interior beam with latex overlay and 1.5 inches of asphalt. DGA **COMPLIANCE NOTES** 

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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
12	Re Concrete Deck	3	12/11/2024	1,759.00	sq.ft	1,557.00	175.00	27.00	0.00

Top of deck cannot be visually inspected due to asphalt overlay. An infrared deck scan was completed by AECOM in 2022, which indicated no delaminations or patches in the top of the deck. Soffit has a few transverse cracks with efflorescence. Spalls with exposed rebar noted in Bay 1 (1.5 inches long by 1.5 feet wide) and Bay 3 (4 inches long by 3 feet wide) mid-span. Soffit also has diagonal cracking and full depth deterioration with seepage, efflorescence, and exposed rebar in Bay 3 at both abutments, worse at Abutment 2.

813 AC Wearing Surf w/ 12/11/2024 1,547.00 1,495.00 0.00 52.00 0.00 Membrane

Wearing surface is in good condition except for some cracks/deterioration along joints and diagonal cracking at the northeast corner. Infrared thermographic deck scan from 2022 indicated debonding along the Abutment 2 joint in the

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
107	Steel Opn Girder/Beam	3	12/11/2024	257.00	ft	187.00	70.00	0.00	0.00

Beams have some surface rust at ends. Beams have some scattered freckled rust on bottom flanges and webs, with Beams 2 and 3 having the heaviest amount.

515 Steel Protective Coating 12/11/2024 2,492.00 0.00 2,422.00 70.00 0.00

> Steel protective coating is generally substantially effective with some dulling. Areas with freckled rust have limited effectiveness.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
215	Re Conc Abutment	3	12/11/2024	74.00	ft	53.00	8.00	13.00	0.00

Quantity includes parallel wingwalls at the abutments. Abutments have full height vertical cracks below Beams 2 and 3, plus cracks with efflorescence at the ends of the backwalls. Abutment 1 has dense pattern cracking with efflorescence near the tops of the wingwalls, a 3-foot long by 1-foot high spall in the backwall at the west end/behind Beam 1, and 4 feet of wide horizonal cracking near the top of the breastwall below Bay 1 with rust staining and efflorescence.

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ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	CS 1	CS 2	CS 3	CS 4
						QTY	QTY	QTY	QTY

Pourable joint seal was installed over existing compression seals. Seal is missing at Abutment 1, and only partially present at Abutment 2 exposing the old compression joint. The exposed compression joint is shredded and filled with debris.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
311	Moveable Bearing	3	12/11/2024	4.00	each	0.00	3.00	1.00	0.00

Movable bearings at Abutment 1 have some surface rust, with heavier corrosion on the Girder 1 bearing.

515 Steel Protective Coating 3 12/11/2024 5.00 sq.ft 0.00 2.00 2.00 1.00

Steel protective coatings of the moveable bearings generally exhibit substantial to limited effectiveness. Some has failed on the Girder 1 bearing.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
313	Fixed Bearing	3	12/11/2024	4.00	each	0.00	3.00	1.00	0.00

Fixed bearings at Abutment 2 have some surface rust, with heavier corrosion on the Girder 1 bearing.

515 Steel Protective Coating 3 12/11/2024 5.00 sq.ft 0.00 2.00 2.00 1.00

Steel protective coatings of the fixed bearings generally exhibit substantial to limited effectiveness. Some has failed on the Girder 1 bearing.

ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
331	Re Conc Bridge Railing	3	12/11/2024	128.00	ft	49.00	79.00	0.00	0.00

Concrete railings have some moderate cracks and small spalls. West railing has longitudinal cracking along base for the length.

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						OTV/	OTV	0.77./	077/
EL EM NIDD	ELEMENT NAME		INCD DATE	OLIANITITY	LINITO	QTY	QTY	QTY	QTY
ELEM NBR	ELEMENT NAME	ENV	INSP. DATE	QUANTITY	UNITS	CS 1	CS 2	CS 3	CS 4
859	Vegetation	3	12/11/2024	1.00	each	0.00	0.00	1.00	0.00
	•								

West face of the structure, along with much of Abutment 2, is covered in vines, restricting proper inspection.

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Looking north along I-65 SB on ramp from S 1st St.



Joint over Abutment 1



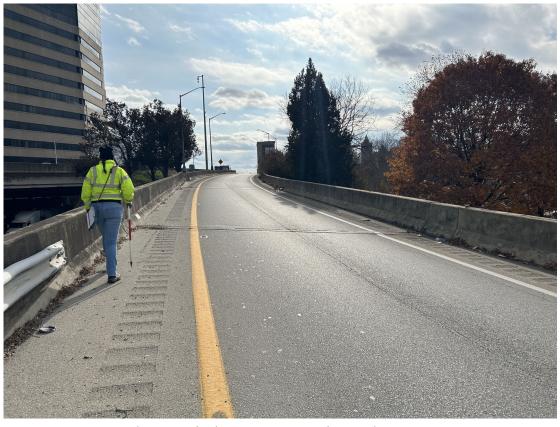
Joint over Abutment 2



Asphalt overlay has cracking near the north bridge end. Pourable joint seals have also generally failed.



West rail has cracking throughout the length.



Looking south along ramp towards mainline I-65 SB.



West Profile



East Profile



Abutment 1



SW wingwall has dense pattern cracking with efflorescence near the top.



Abutment 1 has wide horizontal cracking with some rust staining near the top of the seat under Bay 1.



SE wingwall also has dense pattern cracking near the top.



Superstructure



Deck soffit has an area of spalling with exposed rebar in Bay 3 at Abutment 1.



Soffit has an area of full depth deterioration in Bay 3 at Abutment 2.



Vines are growing along Girder 1.



Abutment 2



Abutment 2 backwall has cracking with efflorescence at the ends. West end shown.