ADDENDUM No. 1

RFP No. 24-35

2024 - 2025 Bridge Inspection Project

Due: June 18, 2024 at 3:00 P.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes two hundred and twelve (212) pages.**

The Proposer is to acknowledge receipt of this Addendum No. 1 by signing and submitting Attachment B, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment C Non-Discrimination Declaration of Compliance
- Attachment D Living Wage Declaration of Compliance
- Attachment E Vendor Conflict of Interest Disclosure Form

<u>Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.</u>

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s) Change

Section IV As provided in RFP No. 24-35 Document:

Attachment A

As updated herein: Attachment A BSIR SIA Forms

Comment: The intent with this is to provide the BSIR and SIA Summary Forms from last bridge inspection cycle for NBIS Structures only(18).

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

- Question 1: Can we get plans for bridges, latest inspection reports for all bridges, latest load rating files, native files (AASHOWare BrR), hand calculations or engineering assumption; Summary and Assumption sheets (List of fabricator or construction companies if plans are not available), and Map of park bridge's locations?
- Answer 1: Attached to this addendum are the latest BSIR forms for the 18 NBI Structures. All other requested documents, if available, will be given to the firm that is awarded the project.
- Question 2: The City has 5 bridges over RR and according to RFP no right-of-entry will be required except only for Eisenhower Parkway over Ann Arbor RR. Why do the other 4 not require right-of-entry? Are they abandoned RR?
- Answer 2: Access to RR right of way is not needed as there are other vantage points to complete the non-in-depth visual inspections of bridges. However, the Consultant is responsible for making sure they obtain all permits needed to complete the work, including permit to entry if it is required.
- Question 3: The total number of park bridges is 35 (see sh.14 RFP). However, you are asking to inspect only 10 bridges (see sh.16). Are 10 just for 2024 and the rest of it for 2025?
- Answer 3: Its only 10 park bridges for 2024, with none for 2025. We will be adding more park bridges for the next round of inspections in the 2026-2027 bridge inspections project that will depend on renewal of the Professional Services Agreement.
- Question 4: Usually load rating for pedestrian bridges is not required. If the City wants load rating for pedestrian bridges to be done, is the original load capacity not available from fabricator?
- Answer 4: Load rating for pedestrian bridges is not needed.
- Question 5: In the RFP, the City has one tunnel: Huron Parkway over U of M Tunnel. Does this structure require tunnel inspection form or just regular bridge one?
- Answer 5: We will require a simplified bridge inspection as outlined in scope of services in RFP and also as shown in the lates Culvert Summary form that is in this addendum.
- Question 6: Would City of Ann Arbor consider a proposal to inspect these bridges with digital condition assessments/ methodology, assuming compliance?
- Answer 6: We would consider the proposal if there it is compliance and satisfies fully the scope of services as outlined in the RFP.
- Question 7: We are a Canadian based firm and we understand that we can submit W-8 form in lieu if W-9. Kindly confirm.
- Answer 7: Yes, a W-8 form will suffice for a Canadian based firm.
- Question 8: Please confirm if the bridges listed in table 1 are to be inspected twice. We understand that the bridges must be inspected biennial i.e. 2024 and 2026 & 2025 and 2027. Please confirm if scope and quotations should includes two inspections.
- Answer 8: Bridges listed in table 1 are to be inspected once. The year of inspection is noted in the last column. Yes bridges will be inspected biennial.

Question 9: We understand that RR permit of entry cost will be reimbursed as per actuals.

Answer 9: Correct, City of Ann Arbor will reimburse permit to entry.

Question 10: Page 9 reads "The CONSULTANT shall review prior Bridge Safety Inspection

Reports, available as-built records, load rating calculations, evaluations, and currently filed MDOT SIA and BSIR forms for each structure. Some of this information may not be available for every structure". Kindly clarify the

expectations from the consultant in case these forms are not available for some

structures.

Answer 10: The Consultant is responsible to review all available information for every

structure. If not available the consultant is not expected to review.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

STR 14691 BRIDGE SAFETY INSPECTION REPORT						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
BANDEMER PARK	42.3032 / -83.7465	814021299999B02	Good Condition(7)			
Feature	Length / Width / Spans	Owner				
HURON RIVER	118.75 / 12 / 1	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
BANDEMER PARK	1995 / / 2022 /	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 10 Truss- Thru and Pony	12/07/2023 / PORM	8 Stable Above Footing			

NBI INSPECTION			PORM
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	22	12/07/2023

GENERAL NOTES

Single lane, single span weathering steel truss bridge serving as access to Bandemer Park. The bridge was added to the NBI in October 2023. Bridge was rehabilitated in 2022. Work included welded repairs to the floorbeams and truss members, stringer replacement, timber deck replacement, diagonal bracing repairs, guardrail replacement, and handrail replacement. Floorbeams and stringers were painted using a 3-coat system after all repairs were installed.

Inspection frequency set to 22 months to get the bridge on the same inspection schedule as the rest of the City of Ann Arbor bridges.

DECK

01/01 12/23

1. Surface (SIA-58A)	New timber decking installed in 2022. Decking is in good condition with isolated minor splits and checks. (12/23) (01/01) ()
2. Expansion Joints	N No joints on bridge (12/23) (01/01) ()
3. Other Joints	N No joints on bridge (12/23) (01/01) ()
4. Railings	New Guardrail Type B installed in 2022. HSS tubes reinforce the guardrail and connect to the truss vertical members. Guardrail extends 20 ft beyond each end of the bridge. (12/23) (01/01) ()
5. Sidewalks or Curbs	N Pedestrian bridge adjacent to the vehicle bridge. (12/23) (01/01) ()
6. Deck Bottom Surface (SIA-58B)	New timber decking installed in 2022. Decking is in good condition with isolated minor splits and checks. Decking is in contact with stringers. (12/23) (01/01)
7. Deck (SIA-58)	New timber decking installed in 2022. Decking is in good condition with isolated minor splits and checks. 2 boards at midspan and 1 board near the north field splice have loose connections. (12/23) (01/01)
8. Drainage	(12/23) (01/01) ()

SUPERSTRUCTURE

01/01 12/23

STR 14691		BRIDGE SAFETY INS	PECTION REPORT	
Facility	Latit	ude / Longitude	MDOT Structure ID	Structure Condition
BANDEMER PARK		032 / -83.7465	814021299999B02	Good Condition(7)
Feature	Leng	th / Width / Spans	Owner	. ,
HURON RIVER	118.7	75 / 12 / 1	City: ANN ARBOR(0212)	
Location	Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
BANDEMER PARK	1995	/ / 2022 /	Brighton(3)	A Open, no restriction(A)
Region / County	Mate	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Ste Pony	el / 10 Truss- Thru and	12/07/2023 / PORM	8 Stable Above Footing
9. Stringer (SIA-59)	7	the floorbeam connections Welded repairs were insta webs. Floorbeams were pa	s to the truss. Wide flange f lled in 2022. Minor pitting v ainted with a 3-coat system	Welded repairs were installed in 2022 at loorbeams are also weathering steel. without section less is present in the in 2022. Stringers were replaced with made of weathering steel. (12/23)
10. Paint (SIA-59A)	9	Weathering steel floorbear condition with no localized (01/01)	ns were painted in 2022 w failures. (12/23)	ith a 3-coat system. Paint is in good
11. Section Loss	3	Welded repairs were insta Stringers were replaced at with no measurable sectio (01/01) ()	this time. Minor pitting is p	s of the truss and floorbeams in 2022. present on the webs of the floorbeams
12. Bearings	6	Weathering steel truss sho corrosion at all four bearin (12/23) (01/01) ()	pe bearings. The base plate g locations. Debris is prese	e below truss shoes has rust and ent on the beam seats and bearings.
SUBSTRUCTURE				
	12/23			
13. Abutments (SIA-60)	7	Shared concrete abutment	ts with adjacent pedestrian the south abutment. (12/2	bridge. Overall condition of abutments is 3)
14. Piers (SIA-60)	N	(12/23) (01/01) ()		
15. Slope Protection	N	Water crossing (12/23) (01/01) ()		
16. Channel (SIA-61)	7			all. Riprap present at south abutment. s are well vegetated. (12/23)
17. Scour Inspection	7	This portion of the Huron F stable for scour. (12/23) (01/01)	River is located between tw	o elevation controlled dams. Stream is
APPROACH				
	12/23			
18. Approach Pavement	5	HMA approaches on both both abutments. Longituding	nal and transverse cracks its indicating that water is no	d settlement up to 1" is present along n both approaches. Sediment/debris is ot draining to the nearby spillways but is

STR 14691	BRIDGE SAF	ETY INSPECTION REPORT	
Facility BANDEMER PARK Feature	Latitude / Longitude 42.3032 / -83.7465 Length / Width / Spa	MDOT Structure ID 814021299999B02	Structure Condition Good Condition(7)
HURON RIVER Location	118.75 / 12 / 1 Built / Recon. / Paint	City: ANN ARBOR(021:	2) Operational Status
BANDEMER PARK	1995 / / 2022 /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 10 Truss- Th Pony	•	8 Stable Above Footing
19. Approach Shoulders Sidewalks	approach sidewa sidewalk is level	alk is separated from the roadway b with roadway pavement with bollar	I by separate pedestrian bridge. South y a concrete curb. North approach ds to prevent vehicles from accessing the s is present along the abutments. (12/23)
20. Approach Slopes	Water is not dra (12/23) (01/01) ()	ining to spillways on approach emba	ankment. Slopes are well vegetated.
21. Utilities	Gas line mounte (01/01) ()	d to the east fascia of the bridge. (1	2/23)
22. Drainage Culverts	(12/23) (01/01) ()		
MISCELLANEOUS			
Guard Rail		Other Items	
Item	Rating	Item	Rating
36A. Bridge Railings	0	71. Water Adequacy	9
36B. Transitions	0	72. Approach Alignment	8
36C. Approach Guardrail	0	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	0	High Load Hit (M)	No
		Special Insp. Equipment	
False Decking (Timber) Removed	to Complete Inspection	Underwater Insp. Method N/A - No False Decking	i 0
		I IVA - NO I dise Deckling	
Critical Feature Inspections (
92A. Fracture Critical	Freq Date 12/07/2	123	
OZALI I GOLGIC OTILIOGI	22 12/01/2	020	

92A. Fracture Critical 92B. Underwater 92C. Other Special 92D. Fatigue Sensitive

STR 14691

BRIDGE SAFETY INSPECTION REPORT

Facility

BANDEMER PARK

Feature

HURON RIVER

Location

BANDEMER PARK Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.3032 / -83.7465 Length / Width / Spans

118.75 / 12 / 1 Built / Recon. / Paint / Ovly.

/ 2022 / 1995 /

Material / Design

3 Steel / 10 Truss- Thru and Pony

MDOT Structure ID 814021299999B02

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection

12/07/2023 / PORM

Structure Condition

Good Condition(7)

Operational Status A Open, no restriction(A)

Scour Evaluation 8 Stable Above Footing

SUPPORTING IMAGES PORM 12/07/2023



Document Name: R0012530.JPG

Category: Elevation Span Number: 1

Comments: East elevation of bridge



Document Name: R0011732.JPG

Category: Approach Span Number: 1

Comments: HMA spall at south reference line



Document Name: R0012527.JPG

Category: Approach Span Number:

Comments: North approach



Document Name: R0012525.JPG

Category: Railing Span Number: 1

Comments: Guardrail and fencing on bridge

STR 14691

BRIDGE SAFETY INSPECTION REPORT

Facility

BANDEMER PARK **Feature**

HURON RIVER Location

BANDEMER PARK Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.3032 / -83.7465 Length / Width / Spans

/ 2022 / 1995 /

118.75 / 12 / 1 Built / Recon. / Paint / Ovly.

Material / Design 3 Steel / 10 Truss- Thru and Pony

MDOT Structure ID 814021299999B02

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

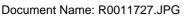
Last NBI Inspection 12/07/2023 / PORM **Operational Status** A Open, no restriction(A) **Scour Evaluation** 8 Stable Above Footing

Structure Condition

Good Condition(7)







Category: Deck Span Number: 1

Comments: Deck member with broken connection near midspan

Document Name: R0012526.JPG

Category: Deck Span Number: 1

Comments: Bridge deck looking south



Document Name: R0012532.JPG Category: Superstructure

Span Number: 1

Comments: Typical vertical truss member repair, located above floorbeam connections



Document Name: R0012534.JPG

Category: Superstructure

Span Number: 1

Comments: Typical galvanized stringers and bottom of deck

STR 14691 **BRIDGE SAFETY INSPECTION REPORT**

Facility

BANDEMER PARK

Feature HURON RIVER

Location

BANDEMER PARK Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.3032 / -83.7465 Length / Width / Spans 118.75 / 12 / 1

Built / Recon. / Paint / Ovly. / 2022 / 1995 /

Material / Design 3 Steel / 10 Truss- Thru and Pony

MDOT Structure ID 814021299999B02

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection

12/07/2023 / PORM

Structure Condition

Good Condition(7)

Operational Status

A Open, no restriction(A)

Scour Evaluation

8 Stable Above Footing



Document Name: R0012536.JPG

Category: Superstructure Span Number: 1

Comments: Typical floorbeam web repair and paint condition



Document Name: R0011742.JPG

Category: Substructure Span Number: 1

Comments: Typical abutment, south shown

STR 11072	BRIDGE SAFETY INS	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)
Feature	Length / Width / Spans	Owner	
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing

NBI INSPECTION			DWYX
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022

GENERAL NOTES

DLZ completed a routine visual inspection of the structure. Minor railing repairs completed in 2021.					
DECK					
	10/18	10/20	10/22		
1. Surface (SIA-58A)	8	7	7	Minor transverse cracks. Diagonal cracks in SE, SW and NE corners of bridge deck (end spans). Concrete edge at north joint with HMA approach pavement has areas that are spalled. (10/22) Some minor transverse cracks, esp in north span. Some minor diagonal cracks in SE, SW and NE corners of bridge deck (end spans). Concrete edge at north joint with HMA approach pavement has areas that are spalled. (10/20) Some minor transverse cracks, esp in north span. Some minor diagonal cracks in SE, SW and NE corners of bridge deck (end spans). Concrete edge at north joint with HMA approach pavement has areas that are spalled. (10/18)	
2. Expansion Joints	8	8	8	Expansion joint glands hold water and dirt, especially at gutter lines. (10/22) Expansion joint glands hold water and dirt, especially at gutter lines. (10/20) Expansion joint glands hold water and dirt, esp at gutter lines. (10/18)	
3. Other Joints	6	6	6	Some filler missing at both deck end joints. (10/22) Some filler missing at both deck end joints. (10/20) Some filler missing at both deck end joints. (10/18)	
4. Railings	6	6	7	Vertical cracks in concrete parapet. Metal portions have been hot-dipped galvanized and painted. The three horizontal metal railing sections attach to the concrete end walls in all quadrants. Concrete railing ends have been repaired. (10/22) Vertical cracks in concrete parapet. Metal portions have been hot-dipped galvanized and painted. The three horizontal metal railing sections attach to the concrete end walls in all quadrants. The northwest and northeast connections have spalled, delaminated or cracked concrete at four/six connection locations. A bolt is missing in the NW quadrant. SE quadrant has been patched. Some minor map cracking in concrete at posts. (10/20) Vertical cracks in concrete parapet. Metal portions have been hot-dipped galvanized and painted. The three horizontal metal railing sections attach to the concrete endwalls in all quadrants. The northwest and northeast connections have spalled, delaminated or cracked concrete at four/six connection locations. A bolt is missing in the NW quadrant. (10/18)	
5. Sidewalks or Curbs	6	6	6	Cracking in top surfaces and fascia faces all spans. Several delaminations and minor pitting. Diagonal cracks in corners. Spall in curb at SE expansion joint. (10/22) Cracking in top surfaces and fascia faces all spans. Several delaminations and minor pitting. Diagonal cracks in corners. Spall in curb at SE expansion joint. (10/20) Cracking in top surfaces and fascia faces all spans. Several delaminations and minor pitting. Diagonal cracks in corners. (10/18)	
6. Deck Bottom Surface (SIA-58B)	4	4	4	Approximately 20% of bottom of deck area has delaminations, incipient spalls, spalls to steel, cracks with efflorescence, and rust stains. (10/22) Approximately 20% of bottom of deck area has delaminations, incipient spalls, spalls to steel, cracks with efflorescence, and rust stains. (10/20) Approximately 20% of bottom of deck area has delaminations, incipient spalls, cracks with efflorescence, and rust stains. (10/18)	

STR 11072				BRIDGE SAFETY INS	SPECTION REPORT	
Facility MAIDEN LANE Feature HURON RIVER Location 200 FT N OF FULLE Region / County University(6) / Was		1)	42.28 Leng 207.6 Built 1982 Mate	ude / Longitude 875 / -83.7331 gth / Width / Spans 6 / 70.9 / 3 c / Recon. / Paint / Ovly.	MDOT Structure ID 814021200129B01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/19/2022 / DWYX	Structure Condition Fair Condition(5) Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing
7. Deck (SIA-58)	5	5	5	delaminations. Top surfa Bottom of deck has evide delaminations. Top surfa Bottom of deck has evide	ce has some cracks in overl nce of moisture with cracks, ce has some cracks in overl	exposed rebar, incipient spalls and ay. (10/20) exposed rebar, incipient spalls and
8. Drainage				in good condition with down There are 3 deck drains a condition with downspouts	wnspouts below the deck. (1 Along the west curb line in bo s below the deck. (10/20) Along the west curb line in bo	oth the north and center spans. They are 0/22) oth the north and center spans. In good oth the north and center spans. In good
SUPERSTRUCTU	JRE					
	10/18	10/20	10/22	2		
9. Stringer (SIA-59)	6	6	6	South span beams have spainted. Surface rust at be Surface rust is present. C South span beams are in surface rust at bearings. (Surface rust is present. C	soot at piers due to homeles earings. (10/22) Dutside two beams on both sigood condition. Beam ends (10/20) Dutside two beams on both sigood condition. Beam ends	sides have minor section loss at piers. It is activity. Beam ends at piers are zone sides have minor section loss at piers. It is at piers are zone painted. Some minor sides have minor section loss at piers. It is at piers are zone painted. Some minor is at piers are zone painted.
10. Paint (SIA-59A)	5	5	5	coat of paint is peeling or outer beams on both side Beam ends at piers have coat of paint is peeling or outer beams on both side Beam ends at piers have	missing. Over 10% of primes of the bridge. (10/22) been zone painted. The pamissing. Over 10% of primes of the bridge. (10/20) been zone painted. The pamissing. Over 10% of primes of primes of primes of primes of primes of primes of the bridge.	int system otherwise has failed. The top e coat is missing, primarily on the two int system otherwise has failed. The top e coat is missing, primarily on the two int system otherwise has failed. The top e coat is missing, primarily on the two
11. Section Loss	1	1	1	beam ends have been pa Minor section loss at bear beam ends have been pa	inted. (10/22) m ends and end diaphragms inted. (10/20) m ends and end diaphragms	s at the piers. Section loss remains, but s at the piers. Section loss remains, but s at the piers. Section loss remains, but
12. Bearings	6	6	6	pads are dried out and cra have been painted. (10/22 Bearing pads overhang the pads are dried out and cra have been painted. (10/20 Bearing pads overhang the	acking. Shims are visible at 2) ne south side of the south pion acking. Shims are visible at 0) ne south side of the south pion acking. Shims are visible at	er at all beam lines. Elastomeric bearing some locations. Sole plates at piers er at all beam lines. Elastomeric bearing some locations. Sole plates at piers er at all beam lines. Elastomeric bearing some locations. Sole plates at piers

10/18 10/20 10/22

SUBSTRUCTURE

STR 11072				BRIDGE SAFETY INS	PECTION REPORT	
Facility			Latitu	ide / Longitude	MDOT Structure ID	Structure Condition
MAIDEN LANE			42.28	75 / -83.7331	814021200129B01	Fair Condition(5)
Feature			Lengt	th / Width / Spans	Owner	
HURON RIVER			207.6	/ 70.9 / 3	City: ANN ARBOR(0212)	
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
200 FT N OF FULLE	ER ROAD		1982	/ / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County			Mater	terial / Design Last NBI Inspection Scour Evaluation		
University(6) / Was	shtenaw(8	1)	3 Stee	el / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing
13. Abutments (SIA-60)	7	7	7	cracks and is delaminated few vertical cracks. North I missing in vertical construc- footings. (10/22)	under conduits in west bay backwall has minor delamin ction joint. Steel sheet pilin	al cracks present. South backwall has . North abutment has one spall and a lations and vertical cracks. Joint filler g around upstream portion of abutment
				South abutment is covered cracks and is delaminated few vertical cracks. North I missing in vertical construction footings. (10/20)	under conduits in west bay backwall has minor delamin ction joint. Steel sheet pilin	al cracks present. South backwall has . North abutment has one spall and a lations and vertical cracks. Joint filler g around upstream portion of abutment
				and is delaminated under cracking. North backwall h	conduits in west bay. North as minor delaminations and	ks present. South backwall has cracks abutment has one spall and vertical divertical cracks. Joint filler missing around upstream portion of abutment
14. Piers (SIA-60)	7	7	7	Piers have small delamina graffiti. Steel sheet piling a (10/22)	ted areas and vertical crack around upstream pier nosin	ks. South side of south pier is covered in g. Filter bag protector at north pier.
				graffiti. Steel sheet piling a Piers have small delamina	around upstream pier nosin	ks. South side of south pier is covered in
15. Slope Protection	7	7	7	place around upstream en area. (10/22) Paved walkway on south s place around upstream en area. (10/20) Paved walkway on south s	d of piers and abutments. Side of south pier. Some rip d of piers and abutments. Side of south pier. Some rip	orap present. Steel sheet piling left in Significant trash present on south paved orap present. Steel sheet piling left in Significant trash present on south paved orap present. Steel sheet piling left in Significant trash present on south paved
16. Channel	7	7	7	area. (10/18)	·	NE wingwall. Stream cross sections
(SIA-61)				obtained in 2020. Channel Small scour hole located upobtained in 2020. Channel Small scour hole located upobtained in 2020.	el banks and bottom appear Inder storm sewer outfall in El banks and bottom appear	stable. (10/22) NE wingwall. Stream cross sections stable. (10/20) NE wingwall. Stream cross sections
17. Scour Inspection	7	7	7	obtained in 2020. Channel Small scour hole located up obtained in 2020. Channel Small scour hole located up	el banks and bottom appear inder storm sewer outfall in el banks and bottom appear	NE wingwall. Stream cross sections stable. (10/20) NE wingwall. Stream cross sections
APPROACH						
	10/18	10/20	10/22			
18 Approach	7	7		North and couth approach	as are HMA in good conditi	on. Some unsealed gracks in HMA at
18. Approach Pavement	,	1	7	north end. (10/22) North and south approach north end. (10/20)	· ·	on. Some unsealed cracks in HMA at on. Some unsealed cracks in HMA at on. (10/18)
19. Approach Shoulders Sidewalks	6	6	8	Concrete sidewalks have a Concrete sidewalks have a Concrete sidewalks have a	minor cracking. (10/20)	
20. Approach Slopes				(10/22) (10/20) (10/18)		

STR 11072	BRIDGE SAFETY IN	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)
Feature	Length / Width / Spans	Owner	
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing
21. Utilities	second, west bay. Cond sidewalk fascia. (10/22) Street light pole on east resecond, west bay. Cond sidewalk fascia. (10/20) Street light pole on east rebase of pole. Eight cond	uits are broken at several loog railing of bridge. Eight condu uits are broken at several loog railing of bridge. Light pole h uits in west bay. Eight cond	uits in west bay. Eight conduits in cations. Conduit attached to west fascia uits in west bay. Eight conduits in cations. Conduit attached to west fascia has several holes and heavy rusting at uits in second, west bay. Conduits are t fascia sidewalk fascia. (10/18)
22. Drainage Culverts	(10/22) (10/20) (10/18)		

Guard Rail		Other Items	
Item	Rating	<u>Item</u>	Rating
36A. Bridge Railings	0	71. Water Adequacy	8
36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M)	No
		Special Insp. Equipment	2
		Underwater Insp. Method	1
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking	

Critical Feature Inspections (SIA-92)

-

Freq Date

92A. Fracture Critical 92B. Underwater 92C. Other Special

MISCELLANEOUS

92D. Fatigue Sensitive

STR 11072 STRUCTURE INVENTORY AND APPRAISAL **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** MAIDEN LANE 42.2875 / -83.7331 814021200129B01 Fair Condition(5) Length / Width / Spans **Feature** Owner 207.6 / 70.9 / 3 **HURON RIVER** City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **Operational Status** 200 FT N OF FULLER ROAD 1982 / / 1982 / 2015 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/19/2022 / DWYX 8 Stable Above Footing **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 1982 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 2015 5D - Route Number 00000 5D - Route Number 32 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 3 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 5 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 2 PR Number PR Number 79 - Rail Type 3 Control Section Control Section 80 - Post Type 3 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 0 108A - Wearing Surface 13 - LRS Route-Subroute 0000014517 07 13 - LRS Route-Subroute 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 16 29 - ADT 9000 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 5 42B - Service Type Under 46.9 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 47.01 47L - Left Horizontal Clear 4 48 - Max Span Length 80.1 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 207.6 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 10.5 99 47R - Right Horizontal Clear 47.0 54B - Left Underclearance 99 50B - Width Right Curb/SW 10.5 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 47 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 70.9 109 - Truck % 17 55A - Reference Feature Ν 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 9500 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/19/2022 2035 102 - Traffic Direct Freeway 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 1 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 1 2 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 0 176A - Und Water Insp Method 71 - Waterway Adequacy 94 - Bridge Cost 0 8 58 - Deck Rating 72 - Approach Alignment 95 - Roadway Cost 0 8 58A/B - Deck Surface/Bottom 4 103 - Temporary Structure 96 - Total Cost 0 59 - Superstructure Rating 6 113 - Scour Criticality 97 - Year of Cost Estimate l٥ 5 7 59A - Paint Rating **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 61 - Channel Rating 37 - Historical Significance 31 - Design Load 5 9 62 - Culvert Rating N 98A - Border Bridge State 41 - Open, Posted, Closed Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 2.92 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.79 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load 1.75 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11072	SAFETY INSPECTION REPORT - AASHTO ELEMENTS					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
MAIDEN LANE	42.2875 / -83.7331	Fair Condition(5)				
Feature	Length / Width / Spans	Owner				
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	. TSC Operational Status				
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing			

No inspections available for bridge key 814021200129B01

STR 11072	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)
Feature	Length / Width / Spans	Owner	
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing

WORK RECOMMENDATIONS			DWYX				
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date				
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022				
RECOMMENDATIONS & ACTION ITEMS							
Recommendation Type	Priority	Description					
Sidewalk Rpr	L	Repair spalled sidewalk at expansion joint device (SE).					
Full Paint	M	Complete painting of stru	ctural steel				
Other	L	Replace damaged guardrail post in t	he northeast quadrant				

STR 11072 SCOUR CRITICAL BRIDGE ACTION PLAN							
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition				
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)				
Feature	Length / Width / Spans	Owner					
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing				

No plan available for bridge key 814021200129B01

STR 11072	LOAD RATING	ASSUMPTIONS		
Facility MAIDEN LANE Feature	Latitude / Longitude 42.2875 / -83.7331 Length / Width / Spans	MDOT Structure ID 814021200129B01 Owner	Structure Condition Fair Condition(5)	
HURON RIVER Location 200 FT N OF FULLER ROAD Region / County University(6) / Washtenaw(81)	207.6 / 70.9 / 3 Built / Recon. / Paint / Ovly. 1982 / / 1982 / 2015 Material / Design 3 Steel / 32 Multi Str Comp	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/19/2022 / DWYX	Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing	
Rating Considers Field Condition	on of Members: Yes	Inspection Date: 10/	(19/2022	
None that impacts capacity				
Most Recent Year Construct / R	-			
History of Work Impacting Load None	d Rating:			
VOLLE				
Superstructure Component:	3 Steel	Beam fy: 50.0 ks	i Beam f'c / fb: k	
Composite:	No Number of Beam	ns: 9 Shop Drav	vings Verified: No	
Beam Size(s) & Names (each span):	W36x150 rolled steel beams in beams, 1 span.	spans 1 and 2; 9 beams per	span, 2 spans. W36x182 in spar	
Deck: Thickness (in.):	10.0 Fy/f'c: 60.0	0 / 4.0 ksi De d	ck Design Load > H15: Yes	
Wearing Surface: Mat'l:	latex conc	Thickness (in.): 1.5	Unit Weight (pcf.): 150.0	
	LEFT	CENTER	RIGHT	
Barrier: Type / Weight (plf.):	3 tube on conc / 400.0	/	3 tube on conc / 400.0	
Sidewalk: Width / Thick (in.):	11.97 / 8.75	/	11.97 / 8.75	
Clear Roadway (ft.):	47.0			
Additional Loads:				
	conduits; (8) 4" dia. steel conduit	s; 565 lb steel diaphragms at	quarter points, north span, third p	
·				
Unique Factors That Affect Cap	pacity:			
	pacity:			

Analyzed By: DLZ Date: 10/22/2018

Modified by: TRANAP8100 on 02/22/2023 Printed on 04/20/2023 Page 1 of 1

STR 11072 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionMAIDEN LANE42.2875 / -83.7331814021200129B01Fair Condition(5)

Feature Length / Width / Spans Owner

HURON RIVER 207.6 / 70.9 / 3 City: ANN ARBOR(0212)

Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 200 FT N OF FULLER ROAD 1982 / / 1982 / 2015 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/19/2022 / DWYX 8 Stable Above Footing

Compliance Issue: None
Compliance Verified: No

Analysis Program: Merlin Dash

Analysis Program Version: 9.2

Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022

Controlling component and failure mode:

Span 1, interior beam, positive flexure

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.92

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.79
MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.75

NBI Item 41 - Structure Open Posted Closed NBI Item 70 - Bridge PostingA A Open, no restriction

5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

 Analyzed By:
 DLZ
 Date:
 10/22/2018

 Checked By:
 DLZ
 Date:
 10/25/2018

STR 11072	REQUEST F			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	<u> </u>
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	207.6 / 70.9 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing	

No inspections available for bridge key 814021200129B01

STR 11072 OUTSTANDING WORK						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
MAIDEN LANE	42.2875 / -83.7331	814021200129B01	Fair Condition(5)			
Feature	Length / Width / Spans	Owner				
HURON RIVER	207.6 / 70.9 / 3 City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
200 FT N OF FULLER ROAD	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/19/2022 / DWYX	8 Stable Above Footing			

WORK RECOMME	ENDATIONS			
SUPERSTRUCTURE Request For Full Paint	E Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment			Complete Date
Comments Complete painting of	structural steel (Pedro	o Trana 04/20/2023)		
OTHER Request For Sidewalk Rpr	Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment			Complete Date
Comments Repair spalled sidew	alk at expansion joint	device (SE). (Pedro Trana 04/20/2023)		
Request For Other	Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment			Complete Date

Replace damaged guardrail post in the northeast quadrant (Pedro Trana 04/20/2023)

Comments

STR 13641 BRIDGE SAFETY INSPECTION REPORT						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)			
Feature	Length / Width / Spans	Owner				
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- Flr Bm Comp	· 10/11/2023 / TP3D	N Not Over Waterway			

NBI INSPECTION			TP3D
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/11/2023

GENERAL NOTES

Inspected all Levels P1-P4, under both S Fifth Ave and Library Lane. Parking structure had ongoing construction at time of inspection as part of the City of Ann Arbor's 2023 Parking Structures Restoration project. Scope of work on the bridge portion of the structure was joint repair at the north end of South Fifth Ave and joint waterproofing.

repair at the north e	repair at the north end of South Fifth Ave and joint waterproofing.						
DECK							
	10/19	10/21	10/23				
1. Surface (SIA-58A)	7	7	7	Concrete deck is buried below concrete roadway surface. On roadway, there are several cracks across the south end of South Fifth Ave. Cracks at north end and at manhole cover. Isolated cracks along Library Lane. The crosswalk halfway along Library Lane has concrete patches that are cracked and spalled. The adjacent road joint is cracked and spalled near the road centerline. (10/23) Concrete deck is buried below concrete roadway surface. On roadway, there are several cracks across the south end of South Fifth Ave. Cracks at north end and at manhole cover. Isolated cracks along Liberty Lane. (10/21) Concrete deck is buried below concrete roadway surface. On roadway, there are several cracks across west lane at south end of South Fifth Ave. Crack at north end at manhole cover. (10/19)			
2. Expansion Joints	N	N	N	(10/23) (10/21) (10/19)			
3. Other Joints	7	7	6	Joints are in good condition with no evidence of leaking except at the north end of South Fifth Ave. The roadway joint and structure joints are offset by several feet resulting in a crack in the roadway above the structure joint. This joint is leaking between column lines A-1 and A-1.7, the width of the roadway. A new expansion joint in the roadway and waterproofing of the structure was under construction at the time of inspection. (10/23) Joints are in good condition with no evidence of leaking. (10/21) Joints are in good condition with no evidence of leaking. (10/19)			
4. Railings	N	N	N	(10/23) (10/21) (10/19)			
5. Sidewalks or Curbs	7	7	7	Concrete sidewalks are in good condition. Sidewalk was replaced around fire hydrant at north end of South Fifth Ave during 2023 project. Replacement sidewalk has cracks propagating from the handhole and fire hydrant. (10/23) Concrete sidewalks are in good condition. Cracking in sidewalk at fire hydrant. (10/21) Concrete sidewalks are in good condition. Cracking in sidewalk at fire hydrant. (10/19)			
6. Deck Bottom Surface (SIA-58B)	7	7	7	No cracks, spalls or concrete delaminations. Utilities are suspended from the bottom of deck. (10/23) No cracks, spalls or concrete delaminations. Utilities are suspended from the bottom of deck. (10/21) No cracks, spalls or concrete delaminations. Utilities are suspended from the bottom of deck. (10/19)			

STR 13641				BRIDGE SAFETY INSF	PECTION REPORT	
Facility SOUTH FIFTH AVE				ide / Longitude 89 / -83.7456	MDOT Structure ID 814021200178Z01	Structure Condition Good Condition(7)
Feature				th / Width / Spans	Owner	
PARKING STRUCT	URE		_	/ 63.5 / 3	City: ANN ARBOR(0212)	
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
BTWN LIBERTY &	WILLIAMS	;	2011	/ / /	Brighton(3)	A Open, no restriction(A)
Region / County			Mater	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Was	shtenaw(8°	1)		Conc Continuous / 33 Gir- n Comp	10/11/2023 / TP3D	N Not Over Waterway
7. Deck (SIA-58)	7	7	7	visible on bottom of deck. (10/23) Top of deck is buried under visible on bottom of deck. (10/21) Top of deck is buried under	Planters with trees and flow r concrete roadway and no Planters with trees and flow r concrete roadway and no	t visible for inspection. No defects wers located above top of slab in fill. It visible for inspection. No defects wers located above top of slab in fill. It visible for inspection. No defects wers located above top of slab in fill.
8. Drainage				along South Fifth Ave. Cat roadway. (10/23) Catch basins are located in along South Fifth Ave. Cat roadway. (10/21) Catch basins are located in	ch basins also located alor northeast quadrant of roa ich basins also located alor northeast quadrant of roa	dway and west and east curb lines ng Library Lane on both sides of dway and west and east curb lines ng Library Lane on both sides of dway and west and east curb lines ng Library Lane on both sides of
SUPERSTRUCTU	JRE					
	10/19	10/21	10/23			
9. Stringer (SIA-59)	7	7	7	concrete delaminations. (10 Post tensioned CIP beams concrete delaminations. (10	0/23) and girders with post tens 0/21) and girders with post tens	ioned deck. No cracks, spalls or ioned deck. No cracks, spalls or ioned deck. No cracks, spalls or
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)		
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)		
12. Bearings	N	N	N	Beams frame directly to cro	oss girders or to columns. I	No bearings within structure. (10/23) No bearings within structure. (10/21) No bearings within structure. (10/19)
SUBSTRUCTURI	E					
	10/19	10/21	10/23			
13. Abutments (SIA-60)	7	7	7	Levels P1-P4. Hairline crace delaminations present. No lines A-1 and A-1.7 (10/23) Abutments consist of cross Levels P1-P4. Hairline crace delaminations present. No Abutments consist of cross	eks, some with minor leach spalls. The joint above the girders supported on columbers, some with minor leach spalls. (10/21) girders supported on columbers, some with minor leach	mns. Typical at column lines A and F, ing and staining. Minor concrete abutment is leaking between column mns. Typical at column lines A and F, ing and staining. Minor concrete mns. Typical at column lines A and F, ing and staining. Minor concrete
14. Piers (SIA-60)	7	7	7	P1-P4. Hairline cracks and Piers consist of cross girde P1-P4. Hairline cracks and Piers consist of cross girde	minor concrete delaminati rs supported on columns. minor concrete delaminati rs supported on columns.	Typical at Column Lines C and E, Levels ons present. No spalls. (10/23) Typical at Column Lines C and E, Levels ons present. No spalls. (10/21) Typical at Column Lines C and E, Levels ons present. No spalls. (10/19)

STR 13641				BRIDGE SAFETY IN	SPECTION REPORT		
Facility SOUTH FIFTH AVE Feature PARKING STRUCTURE Location BTWN LIBERTY & WILLIAMS Region / County University(6) / Washtenaw(81)			Latitude / Longitude 42.2789 / -83.7456 Length / Width / Spans 188.5 / 63.5 / 3 Built / Recon. / Paint / Ovly. 2011 / / / Material / Design 6 P/S Conc Continuous / 33 Gir-Flr Bm Comp		MDOT Structure ID 814021200178Z01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection	Structure Condition Good Condition(7) Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway	
15. Slope Protection	N	N	N	(10/23) (10/21) (10/19)			
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)			
17. Scour Inspection	N	N	N	(10/23) (10/21) (10/19)			
APPROACH							
	10/19	10/21	10/23	3			
18. Approach Pavement	7	7	7	that have been sealed. H Division St. (10/23) HMA approach pavemen (10/21)	MA approach pavement to eat to north and south along So	outh Fifth Ave. Some cracks in surface ast where Library Lane ends at South outh Fifth Ave. Some cracks in surface. outh Fifth Ave. Some cracks in surface.	
19. Approach Shoulders Sidewalks	7	7	7	Lane. Sidewalk in good of Concrete sidewalk along Lane. Sidewalk in good of	condition. Vegetation growing both sides of roadway for pol condition. (10/21) both sides of roadway for pol	rtions of South Fifth Ave and Library galong backs of curbs. (10/23) rtions of South Fifth Ave and Library rtions of South Fifth Ave and Library	
20. Approach Slopes				(10/23) (10/21) (10/19)			
21. Utilities				On roadway surface, stre Multiple utilities running the On roadway surface, stre Multiple utilities running the	et light poles are along both hrough the concrete beams. et light poles are along both hrough the concrete beams.	Several utilities attached to columns. sides of both roadways. (10/23) Several utilities attached to columns. sides of both roadways. (10/21) Several utilities attached to columns. sides of both roadways. (10/19)	
22. Drainage Culverts				(10/23) (10/21) (10/19)			
MISCELLANEOU	S						
Guard Rail			Г.		Other Items	Detine	
<u>Item</u>			Rati		<u>Item</u>	Rating	
36A. Bridge Railing 36B. Transitions	js		N N		71. Water Adequacy 72. Approach Alignment	N 8	
36C. Approach Gua	ardrail		N		Temporary Support	No Temporary Supports	
36D. Approach Gua		ıds	N		High Load Hit (M) Special Insp. Equipment Underwater Insp. Method	No 0	
False Decking (Tim	ber) Rem	noved	to Cor	nplete Inspection	N/A - No False Decking		
Critical Feature In	nspectio	ns (S	A-92)				

Freq

Date

STR 13641	BRIDGE SAFETY INSP	BRIDGE SAFETY INSPECTION REPORT		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- Flr Bm Comp	· 10/11/2023 / TP3D	N Not Over Waterway	

92A. Fracture Critical 92B. Underwater 92C. Other Special 92D. Fatigue Sensitive

STR 13641		STRUCTURE INVENTOR	Y AND APPRAIS	AL	
Facility	Lat	itude / Longitude	MDOT Structure II	Structure Condition	Var
SOUTH FIFTH AVE		2789 / -83.7456	814021200178Z01	Good Condition(7)	
Feature	Ler	ngth / Width / Spans	Owner		_
PARKING STRUCTURE		3.5 / 63.5 / 3	City: ANN ARBOR(0212)	
Location		ilt / Recon. / Paint / Ovly.	TSC	Operational Status	
BTWN LIBERTY & WILLIAMS		1 / / /	Brighton(3)	A Open, no restriction(A	1)
Region / County		terial / Design	Last NBI Inspection	• • • • • • • • • • • • • • • • • • • •	٦)
- ·		/S Conc Continuous / 33 Gir-	•		
University(6) / Washtenaw(8		Bm Comp	10/11/2023 / 1P3L	N Not Over Waterway	
Bridge History, Type, I	Materials	Route Carried By Struc	cture(ON Record)	Route Under Structure (UN	IDER Record)
27 - Year Built	2011	5A - Record Type	1	5A - Record Type	
106 - Year Reconstructed		5B - Route Signing	5 6	5B - Route Signing	
202 - Year Painted 203 - Year Overlay		5C - Level of Service 5D - Route Number	00000	5C - Level of Service 5D - Route Number	
43 - Main Span Bridge Type	6 33	5E - Direction Suffix	0	5E - Direction Suffix	
44 - Appr Span Bridge Type		10L - Best 3m Unclr-Lt	0 0	10L - Best 3m Unclr-Lt	
77 - Steel Type	•	10R - Best 3m Unclr-Rt	99 99	10R - Best 3m Unclr-Rt	
78 - Paint Type		PR Number		PR Number	
79 - Rail Type	0	Control Section		Control Section	
80 - Post Type		11 - Mile Point	0	11 - Mile Point	
107 - Deck Type	1	12 - Base Highway Network		12 - Base Highway Network	
108A - Wearing Surface 108B - Membrane	9	13 - LRS Route-Subroute 19 - Detour Length	0000014303 03	13 - LRS Route-Subroute 19 - Detour Length	
108C - Deck Protection	0	20 - Toll Facility	3	20 - Toll Facility	
		26 - Functional Class	17	26 - Functional Class	
Structure Dimensi	ons	28A - Lanes On	2	28B - Lanes Under	
34 - Skew 35 - Struct Flared	0	29 - ADT	10544	29 - ADT	
45 - Num Main Spans	3	30 - Year of ADT	2015	30 - Year of ADT	
46 - Num Apprs Spans	0	32 - Appr Roadway Width	30	42B - Service Type Under	0
48 - Max Span Length	62.8	32A/B - Ap Pvt Type/Width	29.99	47L - Left Horizontal Clear	
49 - Structure Length	188.5	42A - Service Type On 47L - Left Horizontal Clear	5 0.0	47R - Right Horizontal Clear 54A - Left Feature	
50A - Width Left Curb/SW	5.9	47R - Right Horizontal Clea		54B - Left Underclearance	99 99
50B - Width Right Curb/SW	2	53 - Min Vert Clr Ov Deck	99 99	54C - Right Feature	00 100
33 - Median	0	100 - STRAHNET	0	54D - Right Clearance	99 99
51 - Width Curb to Curb 52 - Width Out to Out	<u>22</u> 63.5	102 - Traffic Direct	1	Under Clearance Year	
112 - NBIS Length	Y	109 - Truck %	2	55A - Reference Feature	N
-	•	110 - Truck Network	0	55B - Right Horiz Clearance	
Inspection Data		114 - Future ADT	11466	56 - Left Horiz Clearance	
90 - Inspection Date	10/11/2023 24	115 - Year Future ADT	2035	100 - STRAHNET 102 - Traffic Direct	
91 - Inspection Freq 92A - Frac Crit Reg/Freq	N N	Freeway		109 - Traine Birect	
93A - Frac Crit Insp Date	IN I	Structure Ap		110 - Truck Network	
92B - Und Water Reg/Freg	N	36A - Bridge Railing	N	114 - Future ADT	
93B - Und Water Insp Date		36B - Rail Transition 36C - Approach Rail	N N	115 - Year Future ADT	
92C - Oth Spec Insp Req/Freq	N	36D - Approach Rail 36D - Rail Termination	N	Freeway	
93C - Oth Spec Insp Date	1	67 - Structure Evaluation	7	Proposed Improve	ments
92D - Fatigue Req/Freq	N	68 - Deck Geometry	2	75 - Type of Work	
93D - Fatigue Insp Date	0	69 - Underclearance	N	76 - Length of Improvement	
176A - Und Water Insp Method 58 - Deck Rating	7	71 - Waterway Adequacy	N	94 - Bridge Cost	
58A/B - Deck Surface/Bottom	7 7	72 - Approach Alignment	8	95 - Roadway Cost	
59 - Superstructure Rating	7	103 - Temporary Structure	N.	96 - Total Cost	
59A - Paint Rating	N	113 - Scour Criticality	N	97 - Year of Cost Estimate	
60 - Substructure Rating	7	Miscellan		Load Rating and Po	osting
61 - Channel Rating	N	37 - Historical Significance	5	31 - Design Load	5
62 - Culvert Rating	N	98A - Border Bridge State		41 - Open, Posted, Closed	A
Navigation Dat	a	98B - Border Bridge %	N	63 - Fed Oper Rtg Method	6
38 - Navigation Control	N	101 - Parallel Structure EPA ID	N	64F - Fed Oper Rtg Load 64MA - Mich Oper Rtg Method	1.61
39 - Vertical Clearance		Stay in Place Forms		64MB - Mich Oper Rtg Method	1.19
40 - Horizontal Clearance		143 - Pin & Hanger Code		64MC - Mich Oper Truck	18
111 - Pier Protection		148 - No. of Pin & Hangers		65 - Inv Rtg Method	6
116 - Lift Brdg Vert Clear				66 - Inventory Load	.96
				70 - Posting	5
				141 - Posted Loading	
				193 - Overload Class	C N

STR 13641	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)		
Feature	Length / Width / Spans	Owner			
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- Flr Bm Comp	10/11/2023 / TP3D	N Not Over Waterway		

No inspections available for bridge key 814021200178Z01

STR 13641	WORK RECOMM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- FIr Bm Comp	10/11/2023 / TP3D	N Not Over Waterway

WORK RECOMME	NDATIONS				TP3D
Inspector Name		Agency / Company Name	I	nsp. Freq.	Insp. Date
Kyle Slavik		DLZ Michigan		24	10/11/2023
CRE	CREW RECOMMENDATIONS			RACT RECOM	MMENDATIONS
Recommendation Type	Priority	Description	Recommendation Type	Priority	Description

Facility SOUTH FIFTH AVE		ASSUMPTIONS	
SOUTH FIFTH AVE	Latitude / Longitude	MDOT Structure ID	Structure Condition
	42.2789 / -83.7456	814021200178Z01	Good Condition(7)
eature	Length / Width / Spans	Owner	
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)	
ocation	Built / Recon. / Paint / Ovly.	TSC	Operational Status
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
Jniversity(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Flr Bm Comp	Gir- 10/11/2023 / TP3D	N Not Over Waterway
Rating Considers Field Condition Deterioration: None	n of Members: Yes	Inspection Date: 10/	/16/2019
lost Recent Year Construct / Rec listory of Work Impacting Load F lone	_		
Superstructure Component: 1	1 Concrete	Beam fy: ks	si Beam f'c / fb: 3.5 ksi
	Voc Number of Beam	se: 2 Shop Dray	vings Varified: No
Composite:	Yes Number of Beam	-	wings Verified: No
Composite:	Yes Number of Beam 36" wide x 48" deep Span 1: 62'-9	-	
Composite: Beam Size(s) & Names (each span):	36" wide x 48" deep Span 1: 62'-	9"; Span 2: 57'-0": Span 3: 61'-	
Composite: Seam Size(s) & Names (each span): Deck: Thickness (in.): 1	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec	0" ck Design Load > H15: Yes
Composite: Seam Size(s) & Names (each pan): Deck: Thickness (in.): 1	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0 None	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec Thickness (in.):	ck Design Load > H15: Yes Unit Weight (pcf.):
Composite: Seam Size(s) & Names (each pan): Deck: Thickness (in.): 1 Vearing Surface: Mat'l: N	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec	0" ck Design Load > H15: Yes
Somposite: Seam Size(s) & Names (each pan): Deck: Thickness (in.): 1 Vearing Surface: Mat'l: N Sarrier: Type / Weight (plf.):	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0 None	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec Thickness (in.):	ck Design Load > H15: Yes Unit Weight (pcf.):
Composite: Beam Size(s) & Names (each gran): Deck: Thickness (in.): 1 Vearing Surface: Mat'l: N Barrier: Type / Weight (plf.):	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0 None	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec Thickness (in.):	ck Design Load > H15: Yes Unit Weight (pcf.):
Composite: Beam Size(s) & Names (each span): Deck: Thickness (in.): 1	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0 None	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec Thickness (in.):	ck Design Load > H15: Yes Unit Weight (pcf.):
Composite: Beam Size(s) & Names (each span): Deck: Thickness (in.): 1 Vearing Surface: Mat'l: N Barrier: Type / Weight (plf.): Sidewalk: Width / Thick (in.):	36" wide x 48" deep Span 1: 62'-9 12.0 Fy / f'c: 60.0 None	9"; Span 2: 57'-0": Span 3: 61'-0 0 / 4.0 ksi Dec Thickness (in.):	ck Design Load > H15: Yes Unit Weight (pcf.):

Analyzed By: Daniel Krull, PE Date: 07/13/2012

Modified by: HUNTJ10 on 12/12/2019 Printed on 11/16/2023 Page 1 of 1

STR 13641 LOAD RATING SUMMARY **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** SOUTH FIFTH AVE 42.2789 / -83.7456 814021200178Z01 Good Condition(7) **Feature** Length / Width / Spans Owner PARKING STRUCTURE 188.5 / 63.5 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **Operational Status** Location **BTWN LIBERTY & WILLIAMS** 2011 / / Brighton(3) A Open, no restriction(A) **Last NBI Inspection Scour Evaluation** Region / County Material / Design University(6) / Washtenaw(81) 6 P/S Conc Continuous / 33 Gir- 10/11/2023 / TP3D N Not Over Waterway

Compliance Issue: None **Compliance Verified:** Yes

Bridge was designed using LFR and does not need to be rated using LRFR per R. Curtis email 5/28/13. (Creightyn McMunn, MDOT Load Rating **Compliance Justification:**

Program Manager, 10/16/2015)

Analysis Program: Other

Analysis Program Version: STAAD Pro, hand Calcs & Excel Spreadsheet **Rating Considers Field Condition of Members: Inspection Date:** 10/16/2019

Controlling component and failure mode:

Girder G134, Flexure, for federal inventory and operating & 1-unit truck

Beam B110, Flexure, for 2-unit truck Beam B105, Flexure, for 3-unit truck

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

FIr Bm Comp

NBI Item 64F - Federal Operating Ratings

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.19 MDOT Item 64MC - Michigan Operating Truck

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 0.96

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction **NBI Item 70 - Bridge Posting** 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class С

MDOT Item 193C - Overload Status N-No Restriction

Daniel Krull, PE 07/13/2012 Analyzed By: Date: Checked By: Robert Breen, PE Date: 07/16/2012

STR 13641	REQUEST FO		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- Flr Bm Comp	10/11/2023 / TP3D	N Not Over Waterway

No inspections available for bridge key 814021200178Z01

STR 13641	OUTSTANDIN		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SOUTH FIFTH AVE	42.2789 / -83.7456	814021200178Z01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PARKING STRUCTURE	188.5 / 63.5 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
BTWN LIBERTY & WILLIAMS	2011 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	6 P/S Conc Continuous / 33 Gir- Flr Bm Comp	10/11/2023 / TP3D	N Not Over Waterway

No Outstanding Work Items available for bridge key 814021200178Z01

STR 11075 BRIDGE SAFETY INSPECTION REPORT				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
BROADWAY	42.2887 / -83.7402	814021200323B01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	166.7 / 73 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / 9SIW	5 Stable w/in footing	

NBI INSPECTION			9SIW
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/10/2023

GENERAL NOTES

Trail runs under both tail spans. Preventive maintenance repairs performed in the Summer of 2021. Repairs included application of healer sealer to the deck surface, deck patching, and rail and sidewalk patching.

DECK				
	10/19	10/21	10/23	
1. Surface (SIA-58A)	7	7	7	Sealed, hairline longitudinal and transverse cracks along wheel lines of outside lanes. No full depth longitudinal cracks. Few transverse cracks that are full depth. (10/23) Hairline longitudinal and transverse cracks along wheel line. No full depth longitudinal cracks. Few transverse cracks that are full depth. (10/21) Hairline longitudinal and transverse cracks along wheel line. No full depth longitudinal cracks. Few transverse cracks that are full depth. Few concrete delaminations found. (10/19)
2. Expansion Joints	7	7	7	Debris has accumulated in the expansion joints and sidewalk cover plates. (10/23) Debris has accumulated in the expansion joints. (10/21) Debris has accumulated in the expansion joints. (10/19)
3. Other Joints	7	7	7	No evidence of leaking. Minor spalls along east sleeper slab joint. (10/23) No evidence of leaking. Minor spalls along east sleeper slab joint. (10/21) No evidence of leaking. Minor spalls along east sleeper slab joint. (10/19)
4. Railings	7	7	7	Hairline vertical cracks. Concrete parapet was coated in 2021, concrete posts were not. Black coating on handrail is chipped at several locations. (10/23) Hairline vertical cracks. Black coating on handrail is chipped at several locations. (10/21) Hairline vertical cracks. Leaching cracks at light pole. Black coating on handrail is chipped at several locations. One nut missing on post on south side. (10/19)
5. Sidewalks or Curbs	6	7	7	One patch in north sidewalk, five patches in south sidewalk. Patches have minor map cracking along the parapet railing. Transverse and longitudinal cracks. (10/23) Some patches, transverse and longitudinal cracks. (10/21) Some patches, transverse and longitudinal cracks, minor spalls and stone pops. A few delaminated concrete areas at locations of patch repairs. (10/19)
6. Deck Bottom Surface (SIA-58B)	7	7	7	No spalls or concrete delaminations. Few transverse hairline cracks with leaching. Transverse cracks do not extend beyond beams into adjacent bays. (10/23) No spalls or concrete delaminations. Few transverse hairline cracks with leaching. (10/21) No spalls or concrete delaminations. Few transverse full depth hairline cracks with leaching. (10/19)
7. Deck (SIA-58)	7	7	7	Sealed, hairline longitudinal and transverse cracks along wheel lines of outside lanes. Few transverse cracks that are full depth with leaching on the bottom surface. Few deck concrete delaminations along bridge centerline. Scaling of deck along south railing. (10/23) Hairline longitudinal and transverse cracks along wheel line of south, eastbound lane and north, westbound lane. Few transverse cracks that are full depth. Few deck concrete delaminations along bridge centerline. Scaling of deck along south railing. (10/21) Hairline longitudinal and transverse cracks along wheel line of south, eastbound lane and north, westbound lane. Few transverse cracks that are full depth. Few deck concrete delaminations along bridge centerline. Scaling of deck along south railing. (10/19)
8. Drainage				(10/23) (10/21) (10/19)

SUPERSTRUCTURE

STR 11075				BRIDGE SAFETY INS	PECTION REPORT		
Facility BROADWAY Feature HURON RIVER Location 0.5 MI E OF MAIN S Region / County University(6) / Was		1)	Latitude / Longitude 42.2887 / -83.7402 Length / Width / Spans 166.7 / 73 / 3 Built / Recon. / Paint / Ovly. 2004 / / / Material / Design 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple		MDOT Structure ID 814021200323B01 Owner City: ANN ARBOR(0212 TSC Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW	Structure Condition Good Condition(7) Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing	
	10/19	10/21	10/23				
9. Stringer (SIA-59)	7	7	Beams in overall good condition. Spall with exposed mild reinforcement at beam end of Beam A in Span 2. Patched or spalled beam ends of Beams B, C, D, E, F, G and J in Span 2. Nearly horizontal crack noted in Beam B, south side at Pier 1, Span 2. Also at Pier 2, Span 2, on Beams B (north side), and Beams C, D and E (south side). (10/23) Beams in overall good condition. Spall with exposed mild reinforcement at beam end of Beam A in Span 2. Patched or spalled beam ends of Beams B, C, D, E, F, G and J in Span 2. Nearly horizontal crack noted in Beam B, south side at Pier 1, Span 2. Also at Pier 2, Span 2, on Beams B (north side), and Beams C, D and E (south side). (10/21) Spall with exposed mild reinforcement at beam end of Beam A in Span 2. Patched or spalled beam ends of Beams B, C, D, E, F, G and J in Span 2. Nearly horizontal crack noted in Beam B, south side at Pier 1, Span 2. Also at Pier 2, Span 2, on Beams B (north side), and Beams C, D and E (south side). (10/19)				
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)			
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)			
12. Bearings	7	7	7	Good condition with no bu	Iging or scaling. In full cont	eact with bottom of beam. (10/23) act with bottom of beam. (10/21) act with bottom of beam. (10/19)	
SUBSTRUCTURE							
	10/19	10/21	10/23				
13. Abutments (SIA-60)	7	7	7	beam. Hairline cracks pres No spalls or concrete dela present on walls. (10/21)	sent in wingwalls. Graffiti p minations found. Hairline c	rack in west abutment near north fascia resent on walls. (10/23) tracks present in wingwalls. Graffiti tracks present in wingwalls. Graffiti	
14. Piers (SIA-60)	7	7	7	pier has vertical cracks on Hairline cracking. No spall	s or concrete delamination the upstream face. (10/23 s or concrete delamination s or concrete delamination	s found. (10/21)	
15. Slope Protection	7	7	7	protection at boardwalks. 'quadrant. (10/23) Heavy riprap in place under protection at walkways. Ver Heavy riprap in place under the protection of the protection at walkways.	Vegetation and a tree are per abutments with geotextile getation present in ripraper abutments with geotextile	e fabric exposed. Steel sheet piling present in the riprap in southwest e fabric exposed. Steel sheet piling in southwest quadrant. (10/21) e fabric exposed. Steel sheet piling in southwest quadrant. (10/19)	
16. Channel (SIA-61)	8	7	7	exposed. (10/23)	in the northwest quadrant.	Riprap is present but geotextile fabric is (10/21)	
17. Scour Inspection	8	8	8	No signs of scour. Abutme No signs of scour. (10/21) No signs of scour. (10/19)	ents and piers are pile supp	ported. (10/23)	

10/19 10/21 10/23

APPROACH

STR 11075 BRIDGE SAFETY INSPECTION REPORT								
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition					
BROADWAY	42.2887 / -83.7402	814021200323B01	Good Condition(7)					
Feature	Length / Width / Spans	Owner						
HURON RIVER	166.7 / 73 / 3	City: ANN ARBOR(0212)	0					
Location	Built / Recon. / Paint / Ovly		Operational Status					
0.5 MI E OF MAIN STREET		Brighton(3) Last NBI Inspection	A Open, no restriction(A) Scour Evaluation					
Region / County University(6) / Washtenaw(81)	Material / Design 5 Prestressed Concrete / 05	•	5 Stable w/in footing					
Oniversity(0) / Washtenaw(01)	Box Bm/Gird- Multiple	10/10/2023 / 95100	3 Stable Will looting					
18. Approach 7 6 Pavement	cracks in concrete pav (10/23) Deterioration/ spalling concrete pavement. (1	Deterioration/ spalling of east approach concrete pavement at the joints. Hairline longitudinal cracks in concrete pavement. The eastbound lanes of the west approach have minor spalls. (10/23) Deterioration/ spalling of east approach concrete pavement at the joints. Hairline cracks in concrete pavement. (10/21) Hairline cracks in concrete pavement. (10/19)						
19. Approach 7 Shoulders Sidewalks	one larger tree in soutl growing the the northw been corrected. Trans Longitudinal hairline cr one larger tree in soutl Transverse crack in SV Longitudinal hairline cr one larger tree in soutl	Longitudinal hairline cracks in northeast quadrant. Hairline cracks and minor vegetation and one larger tree in southwest quadrant that is overhanging the sidewalk. Small trees are growing the the northwest quadrant riprap. Elevation difference in southwest quadrant has been corrected. Transverse crack in SW quadrant. (10/23) Longitudinal hairline cracks in northeast quadrant. Hairline cracks and minor vegetation and one larger tree in southwest quadrant. Elevation difference of 1" in southwest quadrant. Transverse crack in SW quadrant. (10/21) Longitudinal hairline cracks in northeast quadrant. Hairline cracks and minor vegetation and one larger tree in southwest quadrant. Elevation difference of 1" in southwest quadrant. Transverse crack in SW quadrant. (10/19)						
20. Approach Slopes	Tree growing in SW qu	nd NW quadrants should be remuladrant should be removed. (10, uadrant should be removed. (10,	/21)					
21. Utilities	path under bridge. (10 Lights attached to abu path under bridge. (10 Lights attached to abu	Lights attached to abutments. Street lights located on bridge. Lights at bottom of steps to path under bridge. (10/23) Lights attached to abutments. Street lights located on bridge. Lights at bottom of steps to path under bridge. (10/21) Lights attached to abutments. Street lights located on bridge. Lights at bottom of steps to path under bridge. (10/19)						
22. Drainage Culverts	(10/23) (10/21) (10/19)							
MISCELLANEOUS								
Guard Rail		Other Items						
Item	Rating	<u>Item</u>	Rating					
36A. Bridge Railings	0	71. Water Adequacy	8					
36B. Transitions	0	72. Approach Alignment	8					
36C. Approach Guardrail	N	Temporary Support	0 No Temporary Supports					
36D. Approach Guardrail Ends	N	High Load Hit (M)	No					
		Special Insp. Equipment	2					
		Underwater Insp. Method	1					
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking						
Critical Feature Inspections (S	SIA-92)							
• • •	Fren Date							

92A. Fracture Critical92B. Underwater92C. Other Special92D. Fatigue Sensitive

Freq

Date

STR 11075 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Facility** Latitude / Longitude **Structure Condition BROADWAY** 42.2887 / -83.7402 814021200323B01 Good Condition(7) **Feature** Length / Width / Spans Owner **HURON RIVER** 166.7 / 73 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN STREET 2004 / A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/10/2023 / 9SIW 5 Stable w/in footing Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 0 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 7 Control Section Control Section 80 - Post Type 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 1 13 - LRS Route-Subroute 13 - LRS Route-Subroute 108A - Wearing Surface 0000014308 01 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 14 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 10 29 - ADT 20630 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 42B - Service Type Under 5 48.9 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 49.02 47L - Left Horizontal Clear 48 - Max Span Length 78.7 42A - Service Type On 47R - Right Horizontal Clear 1 49 - Structure Length 166.7 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 9.9 99 47R - Right Horizontal Clear 49.2 54B - Left Underclearance 99 50B - Width Right Curb/SW 9.9 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 49.2 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 73 109 - Truck % 55A - Reference Feature Ν 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 21773 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/10/2023 2035 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 0 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail Ν 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination Ν 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 7 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 2 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 0 176A - Und Water Insp Method 71 - Waterway Adequacy 94 - Bridge Cost 8 58 - Deck Rating 72 - Approach Alignment 95 - Roadway Cost 0 8 58A/B - Deck Surface/Bottom 17 103 - Temporary Structure 96 - Total Cost 59 - Superstructure Rating 7 113 - Scour Criticality 97 - Year of Cost Estimate 2017 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating 37 - Historical Significance 31 - Design Load 5 9 62 - Culvert Rating N 98A - Border Bridge State 41 - Open, Posted, Closed Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 2.52 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.71 0 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load 1.51 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11075 **SAFETY INSPECTION REPORT - AASHTO ELEMENTS Facility** Latitude / Longitude **BROADWAY** 42.2887 / -83.7402 **Feature** Length / Width / Spans Owner **HURON RIVER** 166.7 / 73 / 3 Location Built / Recon. / Paint / Ovly. **TSC** 0.5 MI E OF MAIN STREET 2004 / / Region / County Material / Design University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple

MDOT Structure ID Structure Condition 814021200323B01 Good Condition(7)

City: ANN ARBOR(0212)

Operational Status Brighton(3) A Open, no restriction(A) **Last NBI Inspection Scour Evaluation** 10/10/2023 / 9SIW 5 Stable w/in footing

Inspector Name		Agency / Company Na	me	Insp.	Insp. Freq.		Insp. Date	
Kyle Slavik		DLZ Michigan		2	4	10/10/2023		
AASHTO	ELEMENTS					(Engl	ish Units)	
Element Number	Element Name	Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4	
Decks/Slat	os							
803	Conc Deck - Coated Bars	12193	sq.ft	11583 95%	610 5%	0 0%	0 0%	
815	Rigid Overlay	8031	sq.ft	7951 99%	80 1%	0 0%	0 0%	
811	Conc Deck - Btm Surface	12193	sq.ft	12071 99%	122 1%	0 0%	0	
812	Reinf Conc Fascia	333	ft	286 86%	47 14%	0 0%	0	
Joints								
300	Strip Seal Exp Joint	222	ft	111 50%	111 50%	0 0%	0 0%	
301	Pourable Joint Seal	320	ft	280 88%	40 12%	0 0%	0	
Superstruc	cture							
823	P/S Concrete Box Beams	1463	ft	1404 96%	59 4%	0 0%	0 0%	
826	Beam End Deterioration	54	(EA)	47 87%	7 13%	0 0%	0	
Bearings								
310	Elastomeric Bearing	54	each	54 100%	0 0%	0 0%	0 0%	
Substructu	ıre							
205	Re Conc Column	10	each	10 100%	0 0%	0 0%	0 0%	
215	Re Conc Abutment	215	ft	214 100%	1 0%	0 0%	0%	
234	Re Conc Pier Cap	153	ft	153 100%	0	0	0%	

Scour Countermeasure

NBI INSPECTION

9SIW

Facility		Latitude / Longitude	MDOT S	tructure ID	Structure Co	ondition	THE REPORT OF THE PERSON OF TH
BROADWA	ΑY	42.2887 / -83.7402	8140212	00323B01	Good Condit	ion(7)	
Feature		Length / Width / Spans	Owner				
HURON RI	IVER	166.7 / 73 / 3	City: ANI	N ARBOR(0212)			
Location		Built / Recon. / Paint / Ovly.	TSC		Operational	Status	
0.5 MI E O	F MAIN STREET	2004 / / /	Brighton((3)	A Open, no r	estriction(A)	
Region /	County	Material / Design	Last NB	I Inspection	Scour Evalu	ation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/20	23 / 9SIW	5 Stable w/in	footing	
830	Plain Riprap	4800	sq.ft	4800	0	0	0
				100%	0%	0%	0%
Other Elen	nents						
321	Re Conc Approach Sla	b 2908	sq.ft	2617	291	0	0
				90%	10%	0%	0%
330	Metal Bridge Railing	333	ft	330	3	0	0
				99%	1%	0%	0%
515	Steel Protective Coating	g 1000	sq.ft	980	20	0	0
				98%	2%	0%	0%
331	Re Conc Bridge Railing	333	ft	256	77	0	0
				77%	23%	0%	0%
840	Reinf Conc Sidewalk	4050	sq.ft	3969	81	0	0
				98%	2%	0%	0%

STR 11075	WORK RECOM			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
BROADWAY	42.2887 / -83.7402	814021200323B01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	166.7 / 73 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / 9SIW	5 Stable w/in footing	

WORK RECOMMENDATIONS			9SIW
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/10/2023
RECOMMENDATIONS & ACTIO	N ITEMS		
Recommendation Type	Priority	Description	

Recommendation Type	Priority	Description
Channel Repair	M	Place riprap along banks and at abutments.
Brush Cut	M	Remove trees in SW and NW quads.
Bridge Washing	М	Clean expansion joints.
Super Repair	L	Patch concrete beam ends.

Fy / f'c: 60.0 a Fume Overlay Th	MDOT Structure ID 814021200323B01 Owner City: ANN ARBOR(0212 TSC Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1 Beam fy: I S: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8".
ength / Width / Spans 66.7 / 73 / 3 uilt / Recon. / Paint / Ovly. 004 / / / laterial / Design Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes struct / Overlay: 2004 ng: estressed Concrete Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0	814021200323B01 Owner City: ANN ARBOR(0212 TSC Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1 Beam fy: I S: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	Cood Condition(7) Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing O/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
uilt / Recon. / Paint / Ovly. out / / / laterial / Design Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes struct / Overlay: 2004 ng: estressed Concrete Number of Beams If x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	City: ANN ARBOR(0212 TSC Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1 Beam fy: I S: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8".
uilt / Recon. / Paint / Ovly. 004 / / / laterial / Design Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes struct / Overlay: 2004 ng: estressed Concrete Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	TSC Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1 Beam fy: Is: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8".
laterial / Design Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes Struct / Overlay: 2004 ng: estressed Concrete Number of Beams I x 48" W spread box beams. Fy / f'c: 60.0	Brighton(3) Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1	A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8".
Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes Struct / Overlay: 2004 ng: estressed Concrete Number of Beams I x 48" W spread box beams. Fy / f'c: 60.0	Last NBI Inspection 10/10/2023 / 9SIW Inspection Date: 1	Scour Evaluation 5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Prestressed Concrete / 05 ox Bm/Gird- Multiple Members: Yes struct / Overlay: 2004 ng: estressed Concrete Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	10/10/2023 / 9SIW Inspection Date: 1 Beam fy: Is: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	5 Stable w/in footing 0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Members: Yes Struct / Overlay: 2004 ng: estressed Concrete Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Beam fy: I	0/16/2019 ksi Beam f'c / fb: 6.0 ksi awings Verified: No 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
estruct / Overlay: 2004 ng: estressed Concrete Number of Beams d x 48" W spread box beams. Fy / f'c: 60.0	Beam fy: Is: 9 Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	ksi Beam f'c / fb: 6.0 ksi awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
estressed Concrete Number of Beams I x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay The	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
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estressed Concrete Number of Beams I x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
estressed Concrete Number of Beams I x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Number of Beams H x 48" W spread box beams. Fy / f'c: 60.0 a Fume Overlay Th	Shop Dra Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi Dra	awings Verified: No : 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Fy / f'c: 60.0 Fume Overlay	Span 1: 41'-3 1/4"; Span 2: / 4.0 ksi D	: 78'-8 7/8"; Span 3: 46'-7 7/8". eck Design Load > H15: Yes
Fy / f'c: 60.0 a Fume Overlay Th	/ 4.0 ksi D e	eck Design Load > H15: Yes
a Fume Overlay Th		_
•		Unit Mainht (not), 450.0
LEET	nickness (in.): 1.5	Unit Weight (pcf.): 150.0
LEFT	CENTER	RIGHT
teel ped rail / 0.1	/	Steel ped rail / 0.1
143.0 / 6.25	/	143.0 / 6.25
ird points in span 2 - 2 160 kir	os each Inside railings: 325	5 plf each
iird points in span 2 - 2.160 kip	os each. Inside railings: 325	o pit each.
	nira points in span 2 - 2.160 kij	nird points in span 2 - 2.160 kips each. Inside railings: 32

Analyzed By: Carrie Hamel Date: 10/17/2019

STR 11075 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionBROADWAY42.2887 / -83.7402814021200323B01Good Condition(7)

Feature Length / Width / Spans Owner

HURON RIVER 166.7 / 73 / 3 City: ANN ARBOR(0212)

 Location
 Built / Recon. / Paint / Ovly.
 TSC
 Operational Status

 0.5 MI E OF MAIN STREET
 2004 / / / Brighton(3)
 A Open, no restriction(A)

 Region / County
 Material / Design
 Last NBI Inspection
 Scour Evaluation

University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/10/2023 / 9SIW 5 Stable w/in footing Box Bm/Gird- Multiple

Compliance Issue:NoneCompliance Verified:NoAnalysis Program:ConSpanAnalysis Program Version:09.00.01.06

Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019

Controlling component and failure mode:

Shear, span 2, interior, 22.9', HS-20 and Truck 17

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.52

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.71

MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.5

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

Analyzed By: Carrie Hamel Date: 10/17/2019
Checked By: Mark Lessens Date: 10/21/2019

STR 11075	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
BROADWAY	42.2887 / -83.7402	814021200323B01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
HURON RIVER	166.7 / 73 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / 9SIW	5 Stable w/in footing

No inspections available for bridge key 814021200323B01

STR 11075 OUTSTANDING WORK MDOT Structure ID Facility Latitude / Longitude **Structure Condition BROADWAY** 814021200323B01 42.2887 / -83.7402 Good Condition(7) **Feature** Length / Width / Spans Owner **HURON RIVER** 166.7 / 73 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN STREET A Open, no restriction(A) 2004 / / Brighton(3) Region / County **Last NBI Inspection** Scour Evaluation Material / Design University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/10/2023 / 9SIW 5 Stable w/in footing Box Bm/Gird- Multiple

WORK RECOMMENDATIONS

SUPERSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Super Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Patch concrete beam ends. (Kyle Slavik 10/25/2023)

CHANNEL/SCOUR

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Channel Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Place riprap along banks and at abutments. (Kyle Slavik 10/25/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Brush Cut

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Remove trees in SW and NW quads. (Kyle Slavik 10/25/2023)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Bridge Washing

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Clean expansion joints. (Kyle Slavik 10/25/2023)

STR 14690	BRIDGE SAFETY INS			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	1
GALLUP PARK ROAD	42.2756 / -83.7023	814021299999B01	Critical Condition(1)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	124.75 / 12 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	2
GALLUP PARK	1976 / / /	Brighton(3)	K Closed to all traffic(K)	ROAD
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	R
University(6) / Washtenaw(81)	7 Wood or Timber / 25 Girder- Thru	02/01/2024 / GWMI	8 Stable Above Footing	

NBI INSPECTION			GWMI
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	6	02/01/2024

GENERAL NOTES

Structure was recently added to the National Bridge Inventory and the first routine inspection since being added was performed. Bridge is 3 span continuous with glulam beams. Single lane for vehicles with sidewalks on each side. Beams extend above decking and act as curbs to separate vehicles from pedestrians. A replacement bridge is currently being constructed adjacent to the existing bridge. Estimated completion is summer 2024 when the existing bridge will be demolished.

Inspection frequency set to 6 months to monitor condition of the beams. Bridge is scheduled to be demolished during the week of February 12, 2024.

Weight limit signs in place on both ends of bridge YES
Weight limit shown on signs at bridge 333333
Required advance warning weight limit signs in place NO

Required advance w	arning weight	limit s	igns in place NO
DECK			
	01/01	02/24	
1. Surface (SIA-58A)		4	Decking is composed of 3 glulam members oriented on their side and tied together by floorbeams and spreader beams. There is crushing up to 3" along the wheel lines for the entire length of the bridge. The crushing is worse at the edges of the decking members. (02/24) (01/01) ()
2. Expansion Joints		N	No expansion joints on bridge deck. (02/24) (01/01) ()
3. Other Joints		N	No joints on bridge deck. (02/24) (01/01) ()
4. Railings		0	The original timber railings have failed and chain link fence was installed on both sidewalks. Many of the timber railing connections to the deck have rotted out and the posts are not secure. The chain link fence is in good condition with no notable deficiencies. The fence posts are mounted to the deck with through bolts. (02/24) (01/01) ()
5. Sidewalks or Curbs		3	Sidewalks on both sides of the bridge. Each sidewalk is composed of 2 glulam members oriented on their side and tied together by floorbeams. The surface is generally worn with minor checks and splits throughout. The timber railings failed and chain link fence was

- Sidewalks on both sides of the bridge. Each sidewalk is composed of 2 glulam members oriented on their side and tied together by floorbeams. The surface is generally worn with minor checks and splits throughout. The timber railings failed and chain link fence was installed along both fascias. The usable sidewalk width was reduced to 4 ft with the fences in place. Both sidewalks are leaning heavily outward resulting in cross slopes of 6-8%. The outside panel on each sidewalk has a 50 ft long crack over the center span. The west sidewalk was closed at the start of construction of the replacement bridge. (02/24) (01/01)
- Decking is composed of 3 glulam members oriented on their side and tied together by floorbeams and spreader beams. Shallow splits and checks present. Water and debris is passing through the joints between decking members. (02/24) (01/01) ()

6. Deck Bottom

Surface (SIA-58B)

STR 14690		BRIDGE SAFETY INS	PECTION REPORT	·	
Facility	Latit	ude / Longitude	MDOT Structure ID	Structure Condition	10
GALLUP PARK ROAD	42.27	756 / -83.7023	814021299999B01	Critical Condition(1)	
Feature	Leng	th / Width / Spans	Owner		
HURON RIVER	_	75 / 12 / 3	City: ANN ARBOR(0212)		
Location	Built	/ Recon. / Paint / Ovly.	TSC	Operational Status	
GALLUP PARK	1976	-	Brighton(3)	K Closed to all traffic(K)	ROAD
Region / County	Mate	rial / Design	Last NBI Inspection	Scour Evaluation	H
University(6) / Washtenaw(81)		od or Timber / 25 Girder-	02/01/2024 / GWMI	8 Stable Above Footing	
	Thru				
7. Deck (SIA-58)	4	floorbeams and spreader to entire length of the bridge.	peams. There is crushing up The crushing is worse at th	n their side and tied together to 3" along the wheel lines for e edges of the decking memb on and are working as intende	or the pers. The
8. Drainage		Scuppers along both bean (01/01)	ns. (02/24)		
SUPERSTRUCTURE					
01/01	02/24				
9. Stringer (SIA-59)	1	2 glulam beams, continuou separate vehicles from per	us for all 3 spans. Beams ex destrians. The center span	tend above deck and act as on the street as	curbs to
		internal layers and the sur- along both beams. The ea The west beam has a larg- span. The size up the ope- length. The split generally meanders between conne	rounding wood has signs of st beam has lamination sep e split that extends the entir nong varies along the beam runs along the top of the flo ctions. Smaller splits and lar s are in good condition and	ice plates. Knots are present rot. Minor splits and checks a aration on both sides of each e length between splices in th but is as large as 1 inch for morbeam connection plates but mination separation is presenthe replacement decking confidence.	are present splice. te center tost of the t t at the
10. Paint (SIA-59A)	N	(02/24) (01/01) ()			
11. Section Loss	N	(02/24) (01/01) ()			
12. Bearings	5	angles. Bearing pads show	nch neoprene bearing pad on v signs of crushing. Abutme e bird nests adjacent to the	on a 1/4 inch steel plate with ront bearings had debris and se retainer angles. (02/24)	etainer ediment
SUBSTRUCTURE					
01/01	02/24				
13. Abutments (SIA-60)	5	abutments are grouted sto	ne and retain the timber abo	ous bridge abutments. Previou utments. Grout has failed in so apparent settlement of the tir	ome
14. Piers (SIA-60)	6		pile cap and timber cross be steel ice breakers on the	racing. Minor deterioration of upstream face. (02/24)	the piles
15. Slope Protection	N	Water crossing (02/24) (01/01) ()			

		MICHIGAN DEPARTMENT	OF TRANSPORTATION		
STR 14690		BRIDGE SAFETY INS	PECTION REPORT		
Facility GALLUP PARK ROAD Feature	42.27	ude / Longitude 756 / -83.7023 ath / Width/Spans	MDOT Structure ID 814021299999B01 Owner	Structure Condition Critical Condition(1)	*
HURON RIVER Location GALLUP PARK	124.	75 / 12 / 3 / Recon. / Paint / Ovly.	City: ANN ARBOR(0212 TSC Brighton(3)) Operational Status K Closed to all traffic(K)	ROAD TO
Region / County University(6) / Washtenaw(81)	Mate	erial / Design bod or Timber / 25 Girder-	Last NBI Inspection 02/01/2024 / GWMI	Scour Evaluation 8 Stable Above Footing	Н
16. Channel (SIA-61)	6	Minor bank erosion in all formodified during the ongoin (01/01)		of bridge have been excavate cement bridge. (02/24)	ed or
17. Scour Inspection	6	old stone abutments. Bank	ks west of bridge have bee	e is minor bank erosion adjace n excavated or modified durin structure units are pile suppor	g the
APPROACH					
01/0	1 02/24	Ļ			
18. Approach Pavement	6		d cracks and settlement up	is present along north approa to 1 inch. South approach ha	
19. Approach Shoulders Sidewalks	6	sidewalks in all four quadr the ongoing construction of	ants of the bridge. Some a of the replacement bridge. A is erosion and loss of fill a	each end of the bridge. HMA reas were closed off or reroute All four quadrants have fencinal along the edges of the HMA sid	ed due to g but no
20. Approach Slopes		Erosion along the HMA sid (01/01) ()	dewalks/paths is present in	all four quadrants. (02/24)	
21. Utilities		None (02/24) (01/01) ()			
22. Drainage Culverts		None (02/24) (01/01) ()			

MISCELL	ANEOUS
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Guard Rail		Other Items	
Item	Rating	<u>Item</u>	Rating
36A. Bridge Railings	0	71. Water Adequacy	8
36B. Transitions	0	72. Approach Alignment	8
36C. Approach Guardrail	0	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	0	High Load Hit (M)	No
		Special Insp. Equipment	1
		Underwater Insp. Method	2
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking	

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical 92B. Underwater 92C. Other Special

STR 14690	BRIDGE SAFETY INS	PECTION REPORT		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	1
GALLUP PARK ROAD	42.2756 / -83.7023	814021299999B01	Critical Condition(1)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	124.75 / 12 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	2
GALLUP PARK	1976 / / /	Brighton(3)	K Closed to all traffic(K)	ROAD
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	H
University(6) / Washtenaw(81)	7 Wood or Timber / 25 Girder- Thru	02/01/2024 / GWMI	8 Stable Above Footing	

92D. Fatigue Sensitive

STR 14690 BRIDGE SAFETY INSPECTION REPORT

Facility
GALLUP PARK ROAD

Feature
HURON RIVER
Location

GALLUP PARK
Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2756 / -83.7023 Length / Width / Spans 124.75 / 12 / 3

Built / Recon. / Paint / Ovly. 1976 / / / Material / Design

7 Wood or Timber / 25 Girder-Thru **MDOT Structure ID** 814021299999B01

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection 02/01/2024 / GWMI

Structure Condition

Critical Condition(1)

Operational Status
K Closed to all traffic(K)
Scour Evaluation

8 Stable Above Footing



SUPPORTING IMAGES

GWMI 02/01/2024



Document Name: R0011785.JPG

Category: Elevation Span Number:

Comments: West elevation of bridge



Document Name: R0011773.JPG

Category: Deck Span Number:

Comments: Bridge deck looking south

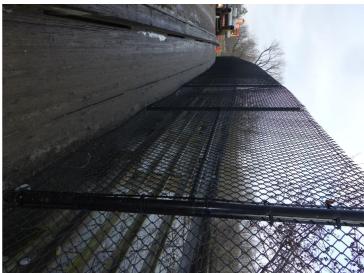


Document Name: R0011776.JPG

Category: Deck Span Number:

Comments: Worn wheel lines in decking, worse at edges of decking

members



Document Name: R0011780.JPG

Category: Deck Span Number:

Comments: Typical sidewalk with chain link fence

STR 14690 **BRIDGE SAFETY INSPECTION REPORT**

Facility GALLUP PARK ROAD

Feature HURON RIVER Location **GALLUP PARK** Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2756 / -83.7023 Length / Width / Spans 124.75 / 12 / 3

Built / Recon. / Paint / Ovly. 1976 / / Material / Design

7 Wood or Timber / 25 Girder-Thru

MDOT Structure ID 814021299999B01

Owner

City: ANN ARBOR(0212) **TSC**

Brighton(3)

Last NBI Inspection 02/01/2024 / GWMI

Structure Condition

Critical Condition(1)

Operational Status K Closed to all traffic(K)

Scour Evaluation 8 Stable Above Footing





Document Name: R0011783.JPG

Category: Deck Span Number: 2

Comments: Boring hole near midspan of bridge



Document Name: R0011792.JPG

Category: Superstructure

Span Number: 2

Comments: Large split in west beam



Document Name: R0011800.JPG Category: Superstructure

Span Number:

Comments: Typical bottom of decking and floorbeam



Document Name: R0011802.JPG

Category: Superstructure

Span Number:

Comments: Hanger plate splice not supporting both sides of beam, typical all four locations

STR 14690

BRIDGE SAFETY INSPECTION REPORT

Facility

GALLUP PARK ROAD

Feature

HURON RIVER

Location

GALLUP PARK
Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2756 / -83.7023 Length / Width / Spans

124.75 / 12 / 3

Built / Recon. / Paint / Ovly. 1976 / / /

Material / Design

7 Wood or Timber / 25 Girder-

Thru

MDOT Structure ID 814021299999B01

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection

02/01/2024 / GWMI

Structure Condition

Critical Condition(1)

Operational Status
K Closed to all traffic(K)

Scour Evaluation 8 Stable Above Footing





Document Name: R0011803.JPG

Category: Superstructure

Span Number: 2

Comments: Large split in west beam



Document Name: R0011805.JPG

Category: Superstructure

Span Number: 2

Comments: Multiple splits in west beam near south splice



Document Name: R0011795.JPG

Category: Bearings Span Number:

Comments: Typical abutment bearings with debris/sediment



Document Name: R0011799.JPG

Category: Substructure Span Number: 1

Comments: Typical timber abutments located behind previous

stone abutments

STR 14690 **BRIDGE SAFETY INSPECTION REPORT**

Facility

GALLUP PARK ROAD Feature

HURON RIVER Location

GALLUP PARK Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2756 / -83.7023 Length / Width / Spans

124.75 / 12 / 3 Built / Recon. / Paint / Ovly.

1976 / / Material / Design

7 Wood or Timber / 25 Girder-Thru

MDOT Structure ID 814021299999B01

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection 02/01/2024 / GWMI

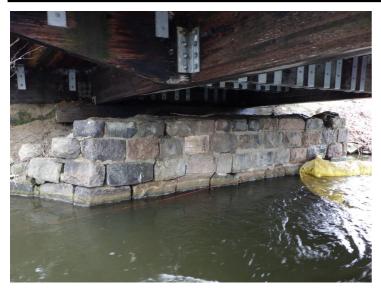
Structure Condition

Critical Condition(1)

Operational Status K Closed to all traffic(K)

Scour Evaluation 8 Stable Above Footing





Document Name: R0011808.JPG

Category: Substructure Span Number: 1

Comments: South abutment missing grout between stones. Timber abutments behind previous bridge abutment



Document Name: R0011809.JPG

Category: Substructure

Span Number:

Comments: Typical pier

STR 11074	BRIDGE SAFETY IN			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	4 Steel Continuous / 82 PI Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing	

NBI INSPECTION			L4T8
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022

GENERAL NOTES

High load hit (scrapes) on bottom of west fascia beam above path at north end of bridge. Have been noted for years - no damage to steel

DECK				
	10/18	10/20	10/22	
1. Surface (SIA-58A)	6	6	7	Deck surface recently repaired. Multiple large deck patches in south bound lanes. Isolated minor longitudinal cracking in south bound lanes. (10/22) Map cracking, longitudinal cracks along beam lines and concrete patches present on southbound lanes. Multiple areas of delaminations on the deck surface are present in all lanes (NB and SB). Additional areas identified and some previous areas have expanded. Little or no spalled concrete. (10/20) Map cracking, longitudinal cracks along beam lines and concrete patches present on southbound lanes. Multiple areas of delaminations on the deck surface are present in all lanes. Additional areas identified and some previous areas have expanded. Little or no spalled concrete. (10/18)
2. Expansion Joints	6	6	7	Joints with minor debris and water ponding. No signs of leaking. Glands were replaced in 2022. (10/22) Joints filled with dirt. Some deterioration of glands noted. No signs of leaking. Gap in gaskets where longitudinal center joint meets the south expansion joint gaskets. Sidewalk joint on east side, south joint, has missing material adjacent to the rails. (10/20) Joints filled with dirt. Some deterioration of glands noted. No signs of leaking. Gap in gaskets where longitudinal center joint meets the south expansion joint gaskets. (10/18)
3. Other Joints	7	6	7	Joints are well sealed. (10/22) Elevation difference of 1/2" at south joint between concrete at reference line and approach slab, southbound lanes. Some separation of elastomeric concrete strip and adjacent concrete at south joint. Other joints are well sealed. Some vegetation at end joints in sidewalks. (10/20) Elevation difference of 1/2" at south joint between concrete at reference line and approach slab, southbound (west) lane. Some separation of elastomeric concrete strip and adjacent concrete at south joint. Other joints are well sealed. Some vegetation at end joints in sidewalks. (10/18)
4. Railings	7	7	7	Most rust spots coated with cold galvanizing paint. Some previousily painted areas have failed and rust spots are present. Scrapes in coating are evidence of vehicle contact. (10/22) Most rust spots coated with cold galvanizing paint. Some previousily painted areas have failed and rust spots are present. Scrapes in coating are evidence of vehicle contact. Vertical bar is broken in traffic side railing along west sidewalk. Three bolts missing from 2-tube railing expansion sleeve in west railing. 2 bolts are missing from the splice in the west rail at the north end. Concrete end walls have map cracking and NE wall has spall. (10/20) Most rust spots coated with cold galvanizing paint. Some previousily painted areas have failed and rust spots are present. Scrapes in coating are evidence of vehicle contact. Vertical bar is broken in traffic side railing along west sidewalk. Three bolts missing from 2-tube railing expansion sleeve in west railing. (10/18)

			-			
STR 11074				BRIDGE SAFETY INSI		
Location 1.0 MI W OF US-23 Region / County	HURON PARKWAY 42.2738 / -83.6985 Feature Length / Width / Sp HURON RV,GEDDES & NFS RR 1,019 / 75.1 / 7 Location Built / Recon. / Paint 1.0 MI W OF US-23 1968 / 2000 / 2007				MDOT Structure ID 814021200259B01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/19/2022 / L4T8	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing
5. Sidewalks or Curbs	7	6	7	exposed at south expansic line. Spall adjacent to joint adjacent to the SE expans not attached to the sidewa Spall at south expansion in exposed at south expansic line. Spall adjacent to joint	pint in west curb. 2 spalls at on joint location at curb. Min t on west sidewalk. Nearly sion joint. Cover plate over 18 k and is misaligned. (10/20 bint in west curb. 2 spalls at on joint location at curb. Min	expansion joints in east curb. Rebar or delamination/spalling in west curb plate over south expansion joint in west
6. Deck Bottom Surface (SIA-58B)	7	7	7	Minor cracking and leaching	ng found. A few locations of	exposed reinforcement. (10/22) exposed reinforcement. (10/20) exposed reinforcement. (10/18)
7. Deck (SIA-58)	6	6	7	underside of deck. (10/22) Minor cracking. Multiple co all lanes. Evidence of mino Minor cracking. Multiple co	oncrete deck patches preser or leaching on underside of	nt. Multiple delaminations of the deck on
8. Drainage				curb line on south span. (1 Two deck drains were bloc Evidence of ponding water Two deck drains were bloc	0/22) ked and drainage was rerol present along west curb lin	uted - one drain along each curb line.
SUPERSTRUCTUR	RE					
	10/18	10/20	10/22			
9. Stringer (SIA-59)	7	7	6	at the splice plates and crorepaired. These areas were bottom of web stiffeners at beams near the ends at be Geddes Avenue (south sparse) Bolted beam repairs were at the splice plates and crorepaired. These areas were bottom of web stiffeners at Bolted beam repairs were at the splice plates and crores.	oss-frame connections where cleaned/coated and are perboth abutments. Pitting and the abutments. Minor high loan). (10/22) added to areas with section sys-frame connections where cleaned/coated and are perboth abutments. (10/20) added to areas with section oss-frame connections where cleaned/coated and are perboth abutments.	loss in 2007. There are a few locations be minimal section loss was not erforming well. Small holes noted in diminor section loss present in the boad hit and scrapes in beams over loss in 2007. There are a few locations be minimal section loss was not erforming well. Small holes noted in loss in 2007. There are a few locations be minimal section loss was not erforming well. Small holes noted in loss in 2007. There are a few locations be minimal section loss was not erforming well. Small holes noted in
10. Paint (SIA-59A)	8	8	8	above path at north abutm. Avenue (south span). (10/2 Paint is in good condition. above path at north abutm.	ent. Minor high load hit and 22) Minor "high load" scrapes i ent. (10/20) Minor "high load" scrapes i	n paint on bottom of west fascia beam scrapes in beams over Geddes n paint on bottom of west fascia beam n paint on bottom of west fascia beam

STR 11074				BRIDGE SAFETY INSPECTION REPORT				
Facility			Latit	ude / Longitude	MDOT Structure ID	Structure Condition		
HURON PARKWAY	′		42.27	738 / -83.6985	814021200259B01	Fair Condition(6)		
Feature			Leng	th / Width / Spans	Owner			
HURON RV,GEDDI	ES & NFS	RR	1,019	75.1 / 7	City: ANN ARBOR(0212	2)		
Location				/ Recon. / Paint / Ovly.	TSC	Operational Status		
1.0 MI W OF US-23	3			/ 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)		
Region / County				rial / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Was	shtenaw(8	1)	4 Ste	el Continuous / 82 Pl er Comp	10/19/2022 / L4T8	5 Stable w/in footing		
11. Section Loss	2	2	2	section loss was not repai well. One diaphragm com- painted in 2007. Small ho minor section loss present There are a few locations section loss was not repai well. One diaphragm com- painted in 2007. Small ho There are a few locations section loss was not repai well. One diaphragm com-	red in 2007. These areas we nection plate noted as ben as heles noted in bottom of web the in the beams near the entat the splice plates and crored in 2007. These areas we nection plate noted as ben at the splice plates and crored in 2007. These areas we nection plate noted as ben nection plate noted as ben nection plate noted as ben	oss-frame connections where minimal were cleaned/coated and are performing t and with section loss, but cleaned and a stiffeners at both abutments. Pitting and ds at both abutments. (10/22) oss-frame connections where minimal were cleaned/coated and are performing t and with section loss, but cleaned and a stiffeners at both abutments (10/20) oss-frame connections where minimal were cleaned/coated and are performing t and with section loss, but cleaned and a stiffeners at both abutments (10/18)		
12. Bearings		7	7	West fascia bearing at non negative impact noted. (10 Bearings show movement West fascia bearing at non negative impact noted. (10 Bearings show movement	rth abutment tilted in oppositions) within range. Minor surfact the abutment tilted in oppositions 20) within range. Minor surfact the abutment tilted in oppositions the abutment tilted in oppositions are the abutment tilted in oppositions.	the rusting present at some locations. Site direction of other bearings. No the rusting present at some locations. Site direction of other bearings. No the rusting present at some locations. Site direction of other bearings. No		
SUBSTRUCTURI	E							
	10/18	10/20	10/22					
13. Abutments (SIA-60)	6	6	6	5w. The backwalls have m (10/22) There are some vertical creations have minor crace expanded some from preventers are some vertical creations.	ninor cracking and scaling. racks and six small delaming scaling, spalling, and rious inspection. (10/20) racks and six small delaming, spalling, and six small delaming, spalling, and	abutment joint between beams 4w and The abutments were patched in 2022. nations in the south abutment. The d multiple delaminations that have nations in the south abutment. The d multiple delaminations that have		
14. Piers (SIA-60)	7	7	7		Ills, and delaminations. Six	22. (10/22) areas found with exposed rebar. (10/20) areas found with exposed rebar. (10/18)		
15. Slope Protection	8	7	8	Heavy riprap is present. Neteriorated/missing riprar	North abutment slope has o p present. (10/20) North abutment slope has o	oth abutments repaired in 2022. (10/22) grouted riprap with one, 2 syd area of grouted riprap with one, 2 syd area of		
16. Channel (SIA-61)	8	8	8	piers that should be remove make reach all access mo Banks and pier columns a Pier 3 (from south end). T	re well protected with ripra ved as they have grown to the difficult at some location re well protected with ripra rees growing in riprap at sand deck levels. These tre	p. Trees growing in riprap at several beam and deck levels. These trees		
17. Scour Inspection	8	8	8	No observable scour notes No observable scour notes No observable scour notes	d. (10/22) d. (10/20)			

APPROACH

10/18 10/20 10/22

Modified by: TRANAP8100 on 03/08/2023 Printed on 04/19/2023 Page 3 of 4

STR 11074				BRIDGE SAFETY INS	SPECTION REPORT	
Facility			Latitude / Longitude		MDOT Structure ID	Structure Condition
HURON PARKWAY	1		42.2	738 / -83.6985	814021200259B01	Fair Condition(6)
Feature			Len	gth / Width / Spans	Owner	
HURON RV,GEDD	IRON RV,GEDDES & NFS RR		1,01	9 / 75.1 / 7	City: ANN ARBOR(0212	2)
Location			Buil	t / Recon. / Paint / Ovly.	TSC	Operational Status
1.0 MI W OF US-23	}		1968	3 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County			Mate	erial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Wa	shtenaw(81	l)		4 Steel Continuous / 82 Pl 10/19/2022 / L4T8 5 Stable w/in footin Girder Comp		
18. Approach Pavement	7	7	7	HMA in good condition. S	Some minor cracking along	north approach joint. (10/22) north approach joint. (10/20) north approach joint. (10/18)
19. Approach Shoulders Sidewalks	8	7	7	7 Concrete sidewalks are in good condition. (10/22) Concrete sidewalks are in good condition. There is vegetation between joints in the sout quadrant. Elevation difference of 7/8" between approach sidewalk and bridge sidewalk in northeast and southeast quadrants. (10/20) Concrete sidewalks are in good condition. There is vegetation between joints in the sout quadrant. Elevation difference of 7/8" between approach sidewalk and bridge sidewalk in northeast and southeast quadrants. (10/18)		
20. Approach Slopes				(10/22) (10/20) (10/18)		
21. Utilities				Street light poles present	on bridge in line with 2-tube	e railings and on approaches. (10/22) e railings and on approaches. (10/20) e railings and on approaches. (10/18)
22. Drainage Culverts				(10/22) (10/20) (10/18)		

MISCELLANE	OUS
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Guard Rail		Other Items	
<u>Item</u>	Rating	<u>Item</u>	Rating
36A. Bridge Railings	1	71. Water Adequacy	9
36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M)	Yes
		Special Insp. Equipment	4
		Underwater Insp. Method	1
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking	

False Decking (Timber) Removed to Complete Inspection

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical 92B. Underwater

92C. Other Special

92D. Fatigue Sensitive

STR 11074 STRUCTURE INVENTORY AND APPRAISAL **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition HURON PARKWAY** 42.2738 / -83.6985 814021200259B01 Fair Condition(6) **Feature** Length / Width / Spans Owner HURON RV, GEDDES & NFS RR 1,019 / 75.1 / 7 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 1968 / 2000 / 2007 / 2000 1.0 MI W OF US-23 A Open, no restriction(A) Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 4 Steel Continuous / 82 PI 10/19/2022 / L4T8 5 Stable w/in footing Girder Comp **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 1968 <u>5</u> 106 - Year Reconstructed 2000 5B - Route Signing 5B - Route Signing 202 - Year Painted 2007 5C - Level of Service 0 5C - Level of Service 0 203 - Year Overlay 2000 5D - Route Number 00000 5D - Route Number 00000 82 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 4 0 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 0 10L - Best 3m Unclr-Lt 14 6 77 - Steel Type 2 10R - Best 3m Unclr-Rt 99 99 10R - Best 3m Unclr-Rt 14 6 78 - Paint Type 4 PR Number PR Number 79 - Rail Type 3 Control Section Control Section 80 - Post Type 2 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 0 12 - Base Highway Network 0 1 0000014296 02 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000014293 06 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 4 1 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 3 26 - Functional Class 26 - Functional Class 16 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 21 29 - ADT 19084 11500 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 2014 45 - Num Main Spans 7 32 - Appr Roadway Width 51.2 42B - Service Type Under 8 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 51.21 47L - Left Horizontal Clear 0 48 - Max Span Length 158.1 42A - Service Type On 47R - Right Horizontal Clear 39.99 49 - Structure Length 1019 47L - Left Horizontal Clear 27.2 54A - Left Feature <u>H</u> 50A - Width Left Curb/SW 9.8 0 47R - Right Horizontal Clear 26.9 54B - Left Underclearance 0 50B - Width Right Curb/SW 9.8 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 Н 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 14 6 51 - Width Curb to Curb 51.2 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 75.1 109 - Truck % 55A - Reference Feature Н 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 8.9 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 19930 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/19/2022 2035 0 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 2 92A - Frac Crit Reg/Freg Ν 109 - Truck % 2 Structure Appraisal 110 - Truck Network 0 93A - Frac Crit Insp Date 36A - Bridge Railing 1 92B - Und Water Reg/Freg Ν 114 - Future ADT 12700 36B - Rail Transition 1 93B - Und Water Insp Date 115 - Year Future ADT 2034 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 35 4 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 4 1019 176A - Und Water Insp Method 71 - Waterway Adequacy 9 94 - Bridge Cost 173 58 - Deck Rating 72 - Approach Alignment 8 95 - Roadway Cost 20 58A/B - Deck Surface/Bottom 17 7 103 - Temporary Structure 96 - Total Cost 193 59 - Superstructure Rating 6 113 - Scour Criticality 97 - Year of Cost Estimate 2020 59A - Paint Rating 8 **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 6 61 - Channel Rating 37 - Historical Significance 31 - Design Load 8 5 5 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure Ν 64F - Fed Oper Rtg Load 1.81 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.02 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load 1.09 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11074	SAFETY INSPECTION REPORT - AASHTO ELEMENTS						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition				
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)				
Feature	Length / Width / Spans	Owner					
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	4 Steel Continuous / 82 Pl Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing				

No inspections available for bridge key 814021200259B01

STR 11074	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	4 Steel Continuous / 82 PI Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing

WORK RECOMME	NDATIONS				L4T8
Inspector Name		Agency / Company Name	ı	nsp. Freq.	Insp. Date
Pedro Trana		DLZ Michigan, Inc.		24	10/19/2022
CRE	CREW RECOMMENDATIONS			RACT RECOM	IMENDATIONS
Recommendation Type	Priority	Description	Recommendation Type	Priority	Description

STR 11074	SCOUR CRITICAL BR			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	4 Steel Continuous / 82 Pl Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing	

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Name	Agency	Phone	Email	Last Modified Date
Francisca Chan	City of Ann Arbor	734-794-6410	fchan@a2gov.org	
David Dykman	City of Ann Arbor	734-794-6410	ddykman@a2gov.org	
Talia Belill	MDOT Bridge Design	517-230-6262	BelillT@michigan.gov	03/08/2023

SCOUR VULNERABILITY

Item 113 Scour Criticality 5 Source of Item 113 Assessed

Item 71Waterway Adequacy9Level I AssessmentNLevel II AnalysisY

Executive Summary Scour Evaluation

Heavy riprap was placed in 2000 around the footings of Piers 3, 4, 5, and 6 as a scour countermeasure to protect the spread footings. It was designed to withstand a 50 year storm event. The "Distance below bottom chord (ft)" in the scour analysis table below is measured from the top of berm elevation at the north abutment.

Calculated Values

Scour Analysis Event Frequency	25 year	50 year	100 year	500 year	Comments
Anticipated Surface Elevation (ft)	748.88	749.5	750.0		
Distance Below Bottom chord (ft)	7.88	7.26	6.76		
Anticipated Flow (cubic ft/sec)	2782.0	7411.0	8485.0		
Anticipated Pressure Flow (Y/N)					

Substructure Information

Foundation	Normally in Water	Normal Water Depth (ft)	In Water (100 yr)	Footing Type	Depth Known	Soil Type
Abutment A	N	N/A				Cohesive
Abutment B	N	N/A				Cohesive
Pier 1						
Pier 2						
Pier 3						
Pier 4						
Pier 5				·		
Pier 6						

COUNTERMEASURE RECOMMENDATIONS

O Only Monitoring Required

Estimated Cost \$

O Structural/Hydraulic Countermeasures Considered

Countermeasure Comments

Heavy riprap was installed in 2000 around the footings of Piers 3, 4, 5, and 6 as a scour countermeasure to protect the spread footings. This countermeasure is in good condition and has been designed for a 50 year storm event so that the bridge is no longer scour critical. Existing heavy riprap scour countermeasures are in good condition.

MONITORING PROGRAM

STR 11074	SCOUR CRITICAL BE		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	4 Steel Continuous / 82 Pl Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing

Recommended Monitoring Requirements

Type Frequency/ Comments
Amount

X Regular Inspection 24

- O Other Special Inspection
- O Underwater Inspection
- O Stream Bed Cross Sections
- O Monitoring Devices (Fixed, Sonar, etc.)
- O Flood Monitoring Initiate monitoring when any of the following occur
 - O NOAA Flood Warning (This includes both Flash Flood and Flood Warnings)
 - O Flow Information
 - O Discharge
 - O Rainfall
 - O WS Elevation Measured from
 - O Pressure Flow
 - O Debris Accumulation

Items to Watch During Monitoring

Scour countermeasures should be evaluated to ensure proper location and functionality after a 50 year storm event and during biennial inspections.

Foundation	Items to Watch
Abutment A	
Abutment B	
Pier 1	
Pier 2	
Pier 3	
Pier 4	
Pier 5	
Pier 6	

Inspection Summary

Туре	Latest Date Completed	Current Frequency	Inspector	Agency
Routine	10/19/2022	24	TRANAP8100	DLZ Michigan, Inc.
Underwater				
Cross Section				
Scour Inspection	10/17/2010		Talia Belill	MDOT Bridge Design
High Flow Monitoring				

BRIDGE CLOSURE

Conditions To Consider Bridge Closure

- O Water Surface Elevation
- O Overtopping of Road or Structure

STR 11074	SCOUR CRITICAL BRIDGE ACTION PLAN					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)			
Feature	Length / Width / Spans	Owner				
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	4 Steel Continuous / 82 PI Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing			

O Pressure Flow

X High Debris Accumulation

X Observed Structure Movement/Settlement

O Loss of Scour Countermeasures

Contacts Responsible for BRIDGE CLOSURE

NameTitleAgencyPhone NumberCell NumberMichigan State PoliceEmergency Contact #517-241-8000517-241-8000Michael Nearing, P.E.Sr. Project Manager734-794-6410734-323-6511

Contacts Responsible for OPENING Bridge

Name Title Agency Phone Number Cell Number

No Contacts Listed for Opening Bridge

DETOUR ROUTE

Possible Detour Route

Geddes Rd. to N. Dixboro Rd. to E. Huron River Dr. to W. Huron River Dr. (3.6 Miles)

Bridges on Detour Route include: Structure Number 10973 and 10974 - N. Dixboro Rd. over Huron River No Live Load Limitations Posted

Bridges/Culverts on Detour Route

Detour Bridge Numbers Feature Intersected Load Limitations Scour Rating

SCOUR INSPECTI	ONS					
Date	Туре	Freq	Inspector	Agency		
10/17/2010	SCOUR		Talia Belill	MDOT Bridge Design		
Comments	No observed scou	ır was note	d during biennial bridge inspection. Riprar	p placed during 2000 project is still in place.		
Recommendations	Other	Low	Existing heavy riprap scour countermeas	sures are in good condition.		
10/09/2016	ROUTINE	24	Mark Lessens	DLZ Michigan, Inc.		
Comments Stream cross sections obtained. No observable scour noted.						
Recommendations	Brush Cut	High	REMOVE TREES FROM RIPRAP AT P	IERS.		
	Joint Repair	High	CLOSE OPEN LONGITUDINAL DECK	JOINT		
	Deck Patching	Low	PATCH UNSOUND DECK AREAS			
10/07/2018	ROUTINE	24	Mark Lessens	DLZ Michigan, Inc.		
Comments	No observable sc	our noted.				
Recommendations	Brush Cut	High	REMOVE TREES FROM RIPRAP AT P	IERS.		
	Joint Repair	High	CLOSE OPEN LONGITUDINAL DECK	JOINT		
	Deck Patching	Low	PATCH UNSOUND DECK AREAS			
10/17/2020	ROUTINE	24	Mark Lessens	DLZ Michigan, Inc.		
Comments	No observable sc	our noted.				

Comments No observable scoul flote

STR 11074		SCOU	R CRITICAL BR	IDGE ACTION PLAN	
Facility		Latitude / L	ongitude	MDOT Structure ID	Structure Condition
HURON PARKWAY		42.2738 / -8	3.6985	814021200259B01	Fair Condition(6)
Feature		Length / Wi	dth / Spans	Owner	
HURON RV, GEDDE	S & NFS RR	1,019 / 75.1	/ 7	City: ANN ARBOR(0212	2)
Location		Built / Recor	n. / Paint / Ovly.	TSC	Operational Status
1.0 MI W OF US-23		1968 / 2000	/ 2007 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County		Material / D	esign	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)		4 Steel Continuous / 82 Pl Girder Comp		10/19/2022 / L4T8	5 Stable w/in footing
Recommendations	s Brush Cut	High	REMOVE TREES	S FROM RIPRAP AT PIER:	S.
	Sidewalk Rpr	Medium	PATCH SIDEWA	LK SPALLS	
	Joint Repair	High	REPAIR OR RESEAL LONGITUDINAL DECK J		CK JOINT
Deck Patching		Low	PATCH UNSOUND DECK AREAS		
Floodcoat		Medium CONSIDER HEA		LER SEALER OR EPOXY	OVERLAY AFTER DECK PATCHING.
10/19/2022	0/19/2022 ROUTINE		Pedro Trana]	DLZ Michigan, Inc.
Comments	s No observable	scour noted.			

HIGH FLOW EVENTS

No Recorded High Flow Events

STR 11074 SCOUR CRITICAL BRIDGE ACTION PLAN								
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition					
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)					
Feature	Length / Width / Spans	Owner						
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)						
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status					
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)					
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation					
University(6) / Washtenaw(81)	4 Steel Continuous / 82 PI Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing					

SUPPORTING IMAGES

STR 11074 LOAD RATING ASSUMPTIONS **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition HURON PARKWAY** 42.2738 / -83.6985 814021200259B01 Fair Condition(6) Length / Width / Spans Feature Owner HURON RV, GEDDES & NFS RR 1,019 / 75.1 / 7 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 1.0 MI W OF US-23 1968 / 2000 / 2007 / 2000 Brighton(3) A Open, no restriction(A) **Last NBI Inspection** Region / County Material / Design Scour Evaluation 4 Steel Continuous / 82 PI 10/19/2022 / L4T8 University(6) / Washtenaw(81) 5 Stable w/in footing Girder Comp

Rating Considers Field Condition of Members: Yes Inspection Date: 10/07/2018

Deterioration:

None that impacts capacity

Most Recent Year Construct / Reconstruct / Overlay: 2000

History of Work Impacting Load Rating:

SB deck: conc overlay placed in 2000; NB deck: replaced in 2000

Superstructure Component: 4 Steel Continuous Beam fy: 36.0 ksi Beam f'c / fb: ksi

Composite: Yes Number of Beams: 8 Shop Drawings Verified: Yes

Beam Size(s) & Names (each Variable haunch, structural steel plate girders (web depth varies from 54" to 94"); 8 beams per span; 7

 span):
 spans

 Deck:
 Thickness (in.):
 8.5
 Fy / f'c:
 60.0 / 4.0
 ksi
 Deck Design Load > H15:
 Yes

Wearing Surface: Mat'l: Thickness (in.): Unit Weight (pcf.):

LEFT CENTER RIGHT

Barrier: Type / Weight (plf.): 2 tube + bike / 90.0 / 2 tube + bike / 90.0

Sidewalk: Width / Thick (in.): 12.0 / 8.5 / 12.0 / 8.5

Clear Roadway (ft.): 51.2

Additional Loads:

Bike railing along both fascias: 40 plf; Interior diaphragms of variable weights; Lateral bracing of variable weights

Unique Factors That Affect Capacity:

The girder steel grades vary. The 74'-0" long variable haunch girder sections over the piers are hybrid girders with the flanges and the bearing stiffeners being grade 50 steel and the rest of the girder is grade 36 steel. The constant 54" depth suspended sections are grade 36 steel.

The beams are continuous across the entire length of the bridge with 10 splices and also two hinges near the center of the structure.

The 11th Edition of the AASHTO code from 1973 states in sections 1.7.131 and 1.7.133 that for composite hybrid girders the shear in a transversely stiffened section can be calculated using the standard shear equations, so the shear capacity in BrR was overridden on one side of each splice location to reflect that.

Analyzed By: DLZ Date: 11/16/2018

STR 11074 LOAD RATING SUMMARY

Facility Latitude / Longitude **HURON PARKWAY** 42.2738 / -83.6985

Length / Width / Spans

MDOT Structure ID 814021200259B01

Owner

Structure Condition Fair Condition(6)

HURON RV, GEDDES & NFS RR

Location

1.0 MI W OF US-23 Region / County University(6) / Washtenaw(81)

Feature

1,019 / 75.1 / 7 Built / Recon. / Paint / Ovly.

1968 / 2000 / 2007 / 2000 Material / Design

Last NBI Inspection 4 Steel Continuous / 82 PI 10/19/2022 / L4T8 Girder Comp

City: ANN ARBOR(0212) **TSC Operational Status** A Open, no restriction(A) Brighton(3)

Scour Evaluation 5 Stable w/in footing

Compliance Issue: None **Compliance Verified:** No

Analysis Program: AASHTOWare Bridge Rating (BrR)

Analysis Program Version: 6.8.2.3002

Rating Considers Field Condition of Members: Yes 10/07/2018 **Inspection Date:**

Controlling component and failure mode:

Splice Stress

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 1.81

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.02 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.09

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

5 5 - 100% or more **NBI Item 70 - Bridge Posting**

No Posting Posted By

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

DI Z Date: Analyzed By: 11/16/2018 Checked By: DLZ Date: 11/30/2018

STR 11074	REQUEST F			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	<u> </u>
HURON PARKWAY	42.2738 / -83.6985	814021200259B01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
HURON RV,GEDDES & NFS RR	1,019 / 75.1 / 7	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
1.0 MI W OF US-23	1968 / 2000 / 2007 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	4 Steel Continuous / 82 Pl Girder Comp	10/19/2022 / L4T8	5 Stable w/in footing	

No inspections available for bridge key 814021200259B01

STR 11074 OUTSTANDING WORK MDOT Structure ID Structure Condition Facility Latitude / Longitude 814021200259B01 **HURON PARKWAY** 42.2738 / -83.6985 Fair Condition(6) **Feature** Length / Width / Spans Owner HURON RV, GEDDES & NFS RR 1,019 / 75.1 / 7 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 1968 / 2000 / 2007 / 2000 1.0 MI W OF US-23 A Open, no restriction(A) Brighton(3) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 4 Steel Continuous / 82 PI 10/19/2022 / L4T8 5 Stable w/in footing Girder Comp

WORK RECOMMENDATIONS

DECKS/SLABS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Deck Patching

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

COMPLETED IN 2022. (Pedro Trana 03/08/2023)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Floodcoat

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

NOT NEEDED AT THIS TIME. (Pedro Trana 03/08/2023)

JOINTS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Joint Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

COMPLETED IN 2022. (Pedro Trana 03/08/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Brush Cut

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

COMPLETED IN 2022. (Pedro Trana 03/08/2023)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Sidewalk Rpr

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

COMPLETED IN 2022. (Pedro Trana 03/08/2023)

STR 10975 BRIDGE SAFETY INSPECTION REPORT							
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition				
HURON RIVER DRIVE	42.2651 / -83.6859	814021200028B01	Fair Condition(6)				
Feature	Length / Width / Spans	Owner					
PITTSFIELD ANN ARBOR DRN	54.2 / 40.8 / 1	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
ANN ARBOR TWP SEC 35	1979 / / / 2017	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/19/2022 / 473R	8 Stable Above Footing				

NBI INSPECTION			473R
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022

GENERAL NOTES

This structure was rehabilitated in 2017.

This structure was rehabilitated in 2017.					
DECK					
	09/19	10/20	10/22		
1. Surface (SIA-58A)	7	7	7	Epoxy overlay, no visible cracks. Approx. 1"-2" of dirt is present on the south shoulder and adjacent to the toe of barrier om the bridge deck. This appears to be depositing on the deck from the adjacent intersection with Chalmers Drive, as well as from the south gravel shoulder east of the bridge. Minor loss of epoxy overlay in eastbound lane. (10/22) Epoxy overlay, no visible cracks. Approx. 1"-2" of dirt is present on the south shoulder and adjacent to the toe of barrier om the bridge deck. This appears to be depositing on the deck from the adjacent intersection with Chalmers Drive, as well as from the south gravel shoulder east of the bridge. Minor loss of epoxy overlay in eastbound lane. (10/20) Epoxy overlay, no visible cracks. Approx. 1"+ of dirt is present on the south shoulder of the bridge deck. This appears to be depositing on the deck from the adjacent intersection with Chalmers Drive, which is a gravel road. (09/19)	
2. Expansion Joints	7	6	6	EJ3 joint at east end. Joint is full of epoxy stone and dirt. (10/22) EJ3 joint at east end. Joint is full of epoxy stone and dirt. (10/20) EJ3 joint at east end. Joint is full of epoxy stone and dirt. (09/19)	
3. Other Joints	N	N	N	(10/22) (10/20) (09/19)	
4. Railings	7	7	7	Aesthetic parapet railing with concrete surface coating along both fascias, placed in 2017. Vertical cracks in concrete portion under nearly every steel rail post, in addition to others. No leaching or staining from cracks, and no spalls or delaminations at these cracks. (10/22) Aesthetic parapet railing with concrete surface coating along both fascias, placed in 2017. Vertical cracks in concrete portion under nearly every steel rail post, in addition to others. No leaching or staining from cracks, and no spalls or delaminations at these cracks. One spall in end wall in SW quadrant below guardrail connection. (10/20) Aesthetic parapet railing with concrete surface coating along both fascias, placed in 2017. Vertical cracks in concrete portion under nearly every steel rail post, in addition to others. No leaching or staining from cracks, and no spalls or delaminations at these cracks. One spall in end wall in SW quadrant. (09/19)	
5. Sidewalks or Curbs	N	N	N	(10/22) (10/20) (09/19)	
6. Deck Bottom Surface (SIA-58B)	7	7	7	At west end, each bay has 2-4 cracks with efflorescence. 2 transverse cracks at east end of south bay with efflorescence. 1 crack at midspan in center bay. Delamination and section loss around drain castings has been patched. (10/22) At west end, each bay has 2-4 cracks with efflorescence. 2 cracks at east end of south bay with efflorescence. 1 crack at midspan in center bay. Delamination and section loss around drain castings has been patched. (10/20) At west end, each bay has 2-4 cracks with efflorescence. 2 cracks at east end of south bay with efflorescence. Delamination and section loss around drain castings has been patched. (09/19)	

STR 10975	,			BRIDGE SAFETY INSI	PECTION REPORT	
Facility HURON RIVER DRIVE Feature PITTSFIELD ANN ARBOR DRN Location ANN ARBOR TWP SEC 35 Region / County University(6) / Washtenaw(81)			42.26 Leng 54.2 Built 1979 Mate 5 Pre	Latitude / Longitude MDOT Structure ID 42.2651 / -83.6859 814021200028B01 Length / Width / Spans Owner 54.2 / 40.8 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. TSC 1979 / / /2017 Brighton(3) Material / Design Last NBI Inspection 5 Prestressed Concrete / 32 Multi Str Comp 10/19/2022 / 473R		Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing
7. Deck (SIA-58)	7	7	7	bottom. 1"-2" of dirt on sou half. (10/22) Epoxy overlay on surface. bottom. 1"-2" of dirt on sou half. (10/20)	uth shoulder. Some rust storm patching around decured the shoulder. Some rust storm patching around decured the shoulder.	ck drains. Leaching cracks in deck aining on south deck fascia over east ck drains. Leaching cracks in deck aining on south deck fascia over east ck drains. Leaching cracks in deck
8. Drainage				below deck level. (10/22) Four deck drains present. open. No downspout exter	SW and SE mostly coverensions below deck level. (1 SE drain covered with dirt.	SW partially covered. North drains
SUPERSTRUCT	URE					
	09/19	10/20	10/22			
9. Stringer (SIA-59)	7	6	6	at sole plate with some exp plate. Concrete surface co- coating failure on south fas end. Minor honeycomb in b (10/22) Concrete I beams. East er at sole plate with some exp ends. Minor concrete surface.	cosed steel. Edge cracks in ating on fascia beams and scia beam bottom flange. No beam 2N at west end. Minor and of beams 2N, 3N, 4N are cosed steel. Concrete surface coating failure on south and of beams 2N, 3N, 4N are face coating on fascia bear scia bear south and of beams 2N, 3N, 4N are face coating on fascia bear scia b	nd 6N bottom corner delaminated/spalled in beams 1N and 5N at east end sole beam ends. Minor concrete surface linor edge cracks in beam 1N at west or surface spall in beam 5N at west end. In the surface spall in beam 5N at west end. In the surface coating on fascia beams and beam in fascia beam bottom flange. (10/20) and 6N bottom corner delaminated/spalled ims and beam ends. Minor concrete lange. (09/19)
10. Paint (SIA-59A)	N	N	N	(10/22) (10/20) (09/19)		
11. Section Loss	2	2	2	coating. Minor edge cracks Delaminations/spalls at eaccoating. (10/20)	s at sole plates. (10/22) st end of 4 beams. Beam	ends covered with concrete surface ends covered with concrete surface ends covered with concrete surface
12. Bearings	5	5	5	bearing pads at east end h beams 4N, 5N and 6N hav Steel bearings have been of bearing pads at east end h beams 4N, 5N and 6N hav Steel bearings have been of	rave splits and cracks. Pacter layer separation. (10/22) cleaned and painted - some ave splits and cracks. Pacter layer separation. (10/20) cleaned and painted - some layer splits and cracks. Pacter layer splits and cracks. Pacter layer splits and cracks.	e minor rust forming on plates. Four dat beam 3N is split along sides. Pad at

SUBSTRUCTURE

09/19 10/20 10/22

STR 10975				BRIDGE SAFETY INSI	PECTION REPORT	
Facility HURON RIVER DRIV Feature			42.26 Leng	ude / Longitude 651 / -83.6859 hth / Width/Spans	MDOT Structure ID 814021200028B01 Owner	Structure Condition Fair Condition(6)
PITTSFIELD ANN ARBOR DRN Location ANN ARBOR TWP SEC 35 Region / County University(6) / Washtenaw(81)			Built 1979 Mate 5 Pre	/ 40.8 / 1 / Recon. / Paint / Ovly. / / 2017 rial / Design estressed Concrete / 32 Str Comp	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/19/2022 / 473R	Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing
13. Abutments (SIA-60)	7	7	7	return wall has 2 vertical cr abutment. Area of west ba angled return walls. (10/22 3 vertical cracks in east ab return wall has 2 vertical cr abutment. Area of west ba angled return walls. (10/20 3 hairline vertical cracks in	racks. SE return wall has 1 ink is eroded under SW dec) utment and 1 in west. Ripraracks. SE return wall has 1 ink is eroded under SW dec) east abutment and 1 in wes	p along length of east abutment. NE vertical crack. No riprap at west k drain. Trees behind guardrail at all p along length of east abutment. NE vertical crack. No riprap at west k drain. Trees behind guardrail at all st. Riprap along length of east bank is eroded under SW deck drain.
14. Piers (SIA-60)	N	N	N	(10/22) (10/20) (09/19)		
15. Slope Protection	5	5	5	eroded under SW deck dra Riprap along length of east eroded under SW deck dra	iin. (10/22) t abutment. No riprap at we iin. (10/20) t abutment. No riprap at we	st abutment. Area of west bank is st abutment. Area of west bank is st abutment. Area of west bank is
16. Channel (SIA-61)	7	7	6	along west bank in front of (10/22) Flow along east abutment. along west bank in front of	abutment. Channel drift lod Heavy vegetation on banks abutment. (10/20) Heavy vegetation on banks	s. Existing soil bank without riprap ged under utility supports at south side. s. Existing soil bank without riprap s. Existing soil bank without riprap
17. Scour Inspection	7	7	7	abutment stream bank - no Riprap in place along east abutment stream bank - no	o scour noted. (10/22) abutment and on NE and Sloscour noted. (10/20) abutment and on NE and Sl	E slopes. No riprap along west E slopes. No riprap along west E slopes. No riprap along west
APPROACH						
	09/19	10/20	10/22			
18. Approach Pavement	7	7	7	HMA approaches, no crack HMA approaches, no crack HMA approaches, no crack	ks. (10/20)	
19. Approach Shoulders Sidewalks	7	6	6	overgrown the approach gu HMA/gravel shoulders. So overgrown the approach gu HMA/gravel shoulders. So	uardrails, especially in the Nome erosion of shoulder gravuardrails, especially in the N	vel in SE quadrant. Brush has IE quadrant. (10/20) vel in SE quadrant. Brush has
20. Approach Slopes				Approach guardrail in all 4	quads. Riprap on SE and N quads. Riprap on SE and N quads. Riprap on SE and N	NE slopes (10/20)
21. Utilities				in good condition. Overhea 2 large sanitary sewers and in good condition. Overhea 2 large sanitary sewers and	ad lines north and east of br d smaller conduits under so ad lines north and east of br	uth side. Hangers painted in 2017 and idge. (10/20) uth side. Hangers painted in 2017 and

STR 10975	BRIDGE SAFETY IN	ISPECTION REPORT	
Facility HURON RIVER DRIVE Feature	Latitude / Longitude 42.2651 / -83.6859 Length / Width / Spans	MDOT Structure ID 814021200028B01 Owner	Structure Condition Fair Condition(6)
PITTSFIELD ANN ARBOR DRN Location ANN ARBOR TWP SEC 35 Region / County University(6) / Washtenaw(81)	54.2 / 40.8 / 1 Built / Recon. / Paint / Ovly. 1979 / / 2017 Material / Design 5 Prestressed Concrete / 32 Multi Str Comp	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/19/2022 / 473R	Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing
22. Drainage Culverts	(10/22) (10/20) (09/19)		
MISCELLANEOUS			
Guard Rail		Other Items	
Item	Rating	<u>Item</u>	Rating
36A. Bridge Railings	1	71. Water Adequacy	7
36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M) Special Insp. Equipment	No 2
		Underwater Insp. Method	1
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking	
Critical Feature Inspections (S	IA-92)		
	Freq Date		
92A. Fracture Critical			

92A. Fracture Critical92B. Underwater92C. Other Special92D. Fatigue Sensitive

STR 10975 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Structure Condition Facility** Latitude / Longitude HURON RIVER DRIVE 42.2651 / -83.6859 814021200028B01 Fair Condition(6) **Feature** Length / Width / Spans Owner PITTSFIELD ANN ARBOR DRN 54.2 / 40.8 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location ANN ARBOR TWP SEC 35 1979 / / 2017 A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 32 10/19/2022 / 473R 8 Stable Above Footing Multi Str Comp **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 2017 5D - Route Number 02006 5D - Route Number 32 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 0 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 0 PR Number PR Number 79 - Rail Type Control Section Control Section 9 80 - Post Type 1 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 1 12 - Base Highway Network 0 12 - Base Highway Network 13 - LRS Route-Subroute 13 - LRS Route-Subroute 108A - Wearing Surface 5 0000014313 08 108B - Membrane 19 - Detour Length 19 - Detour Length 0 3 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 0 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 0 29 - ADT 5954 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2016 30 - Year of ADT 45 - Num Main Spans 1 32 - Appr Roadway Width 42B - Service Type Under 5 30 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 30 47L - Left Horizontal Clear 48 - Max Span Length 54.2 42A - Service Type On 47R - Right Horizontal Clear 1 49 - Structure Length 54.2 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 0 99 47R - Right Horizontal Clear 30.0 54B - Left Underclearance 99 50B - Width Right Curb/SW 0 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 38 102 - Traffic Direct Under Clearance Year 2 0 52 - Width Out to Out 40.8 109 - Truck % 1 55A - Reference Feature Ν 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 99.9 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 6847 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/19/2022 2036 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 1 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 1 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 31 5 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 74.1 176A - Und Water Insp Method 71 - Waterway Adequacy 94 - Bridge Cost 250 58 - Deck Rating 72 - Approach Alignment 50 8 95 - Roadway Cost 58A/B - Deck Surface/Bottom 17 103 - Temporary Structure 96 - Total Cost 340 59 - Superstructure Rating 6 113 - Scour Criticality 97 - Year of Cost Estimate 1991 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating 6 37 - Historical Significance 31 - Design Load 5 6 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load 2.71 Ν 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.22 40 - Horizontal Clearance 0 64MC - Mich Oper Truck 143 - Pin & Hanger Code 0 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load .95 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 10975	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON RIVER DRIVE	42.2651 / -83.6859	814021200028B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
PITTSFIELD ANN ARBOR DRN	54.2 / 40.8 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
ANN ARBOR TWP SEC 35	1979 / / 2017	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/19/2022 / 473R	8 Stable Above Footing

WORK RECOMMENDATIONS			473R					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date					
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022					
RECOMMENDATIONS & ACTION ITEMS								
Recommendation Type	Priority	Description						
Brush Cut	Н	Trim brush in approach quadrants, especially NE where it reduce visibility. Cut down trees adjacent to abutments.						
Remove Debris	Н	Remove dirt buildup on deck (especiall Remove channel de						
Joint Repair	L	Clean out joint year	rly					
Other	Н	Pave the approach shoulders or otherwis water from the approaches onto the brid deposit dirt						

STR 10975 SCOUR CRITICAL BRIDGE ACTION PLAN								
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition					
HURON RIVER DRIVE	42.2651 / -83.6859	814021200028B01	Fair Condition(6)					
Feature	Length / Width / Spans	Owner						
PITTSFIELD ANN ARBOR DRN	54.2 / 40.8 / 1	City: ANN ARBOR(0212)						
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status					
ANN ARBOR TWP SEC 35	1979 / / / 2017	Brighton(3)	A Open, no restriction(A)					
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation					
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/19/2022 / 473R	8 Stable Above Footing					

No plan available for bridge key 814021200028B01

STR 10975	LOAD RATING	S ASSUMPTIONS	
Facility HURON RIVER DRIVE Feature	Latitude / Longitude 42.2651 / -83.6859 Length / Width / Spans	MDOT Structure ID 814021200028B01 Owner	Structure Condition Fair Condition(6)
PITTSFIELD ANN ARBOR DRN Location ANN ARBOR TWP SEC 35 Region / County University(6) / Washtenaw(81)	54.2 / 40.8 / 1 Built / Recon. / Paint / Ovly. 1979 / / 2017 Material / Design 5 Prestressed Concrete / 32 Multi Str Comp	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection	Operational Status A Open, no restriction(A) Scour Evaluation 8 Stable Above Footing
Rating Considers Field Condition	on of Members: Yes	Inspection Date: 10	/19/2022
Minor spalls at east beam ends or	n beams 2N, 3N, 4N and 6N - doe	s not impact ratings.	
Most Recent Year Construct / R History of Work Impacting Load Railings were replaced in 2017.	•		
Superstructure Component:	5 Prestressed Concrete	Beam fy: ks	si Beam f'c / fb: 6.0 ksi
Composite:	Yes Number of Bean	ns: 6 Shop Drav	wings Verified: No
Beam Size(s) & Names (each span):	45" deep AASHTO prestressed p	precast concrete beams	-
Deck: Thickness (in.):	9.0 Fy / f'c:	/ 4.0 ksi De	ck Design Load > H15: Yes
Wearing Surface: Mat'l:	Epoxy Overlay	Thickness (in.): 0.25	Unit Weight (pcf.): 150.0
•	LEFT	CENTER	RIGHT
Barrier: Type / Weight (plf.):	Aesthetic / 320.0 Parapet Tu	1	Aeshetic / 320.0 Parapet
Sidewalk: Width / Thick (in.):	1	1	/
Clear Roadway (ft.):	38.0		
Additional Loads:			
between beams 4N and 5N, below	w the deck. These two pipes are s I, 4N and 5N, at 4 locations along	suspended using pipe supports	dia sanitary sewer pipe is suspended that are directly attached to the bottom
omque i actors mat Arrect Cap	cury.		

Analyzed By: Carrie Hamel Date: 02/01/2021

Modified by: TRANAP8100 on 02/22/2023 Printed on 02/22/2023 Page 1 of 1

STR 10975 LOAD RATING SUMMARY **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** HURON RIVER DRIVE 42.2651 / -83.6859 814021200028B01 Fair Condition(6) **Feature** Length / Width / Spans Owner PITTSFIELD ANN ARBOR DRN 54.2 / 40.8 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location ANN ARBOR TWP SEC 35 1979 / / 2017 A Open, no restriction(A) / Brighton(3) Region / County **Last NBI Inspection Scour Evaluation** Material / Design University(6) / Washtenaw(81) 5 Prestressed Concrete / 32 10/19/2022 / 473R 8 Stable Above Footing

Compliance Issue: None
Compliance Verified: No

Analysis Program:Hand CalculationsAnalysis Program Version:Tekla Tedds 2020

Multi Str Comp

Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022

Controlling component and failure mode:

Beam flexure (all beams) (64MB, MI Operating Rating and 64F Federal Operating Rating), tension in bottom strands (66, Federal Inventory Rating).

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.71

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.22 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 0.95

NBI Item 41 - Structure Open Posted Closed NBI Item 70 - Bridge Posting5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

Analyzed By:Carrie HamelDate:02/01/2021Checked By:Mark LessensDate:02/05/2021

STR 10975	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON RIVER DRIVE	42.2651 / -83.6859	814021200028B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
PITTSFIELD ANN ARBOR DRN	54.2 / 40.8 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
ANN ARBOR TWP SEC 35	1979 / / / 2017	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/19/2022 / 473R	8 Stable Above Footing

No inspections available for bridge key 814021200028B01

STR 10975	OUTSTAND		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON RIVER DRIVE	42.2651 / -83.6859	814021200028B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
PITTSFIELD ANN ARBOR DRN	54.2 / 40.8 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
ANN ARBOR TWP SEC 35	1979 / / / 2017	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/19/2022 / 473R	8 Stable Above Footing

1110 517		
WADE	DECOMMENIATION	JVIC.
WURK	RECOMMENDATION	JIVO

JOINTS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Joint Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Clean out joint yearly (Pedro Trana 11/28/2022)

CHANNEL/SCOUR

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Remove Debris

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Remove dirt buildup on deck (especially the south shoulder). Remove channel debris (Pedro Trana 11/28/2022)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Brush Cut

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Trim brush in approach quadrants, especially NE where it reduces visibility. Cut down trees adjacent to abutments. (Pedro Trana 11/28/2022)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Other

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Pave the approach shoulders or otherwise correct/limit the flow of water from the approaches onto the bridge deck that carry and deposit dirt (Pedro Trana 11/28/2022)

STR 11081 BRIDGE SAFETY INSPECTION REPORT								
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition					
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)					
Feature	Length / Width / Spans	Owner						
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)						
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status					
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)					
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation					
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing					

NBI INSPECTION					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date		
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022		

GENERAL NOTES

Bridge rehabilitation in 2021. This included a new deck and railings.

DECK				
	10/18	10/20	10/22	
1. Surface (SIA-58A)	8	7	8	Concrete deck in good condition. (10/22) A thin HMA overlay or micro surface in place on approaches and across deck. Transverse and longitudinal cracks, most sealed, across deck. (10/20) A thin HMA overlay or micro surface in place on approaches and across deck. Minor trans cracking at reference lines. (10/18)
2. Expansion Joints	N	N	N	(10/22) (10/20) (10/18)
3. Other Joints	N	N	N	(10/22) (10/20) (10/18)
4. Railings	7	7	8	New railings installed in 2021. Minor vertical cracks. (10/22) Railings in good condition, but do not meet current standards. Chain link fence does eliminate large openings between horizontal rails. Some connections between fence and rails are loose near the bottom. (10/20) Railings in good condition, but do not meet current standards. Chain link fence does eliminate large openings between horizontal rails. (10/18)
5. Sidewalks or Curbs	6	6	8	Sidewalks and curbs are in good condition. (10/22) Minor vegetation growth between the three separate concrete beams in the south sidewalk. Elevation difference of 1 1/2" in south sidewalk at east reference line. Concrete spalls in edges of beams in south sidewalk surface. (10/20) Minor vegetation growth between the three separate concrete beams in the south sidewalk. Elevation difference of 1 1/2" in south sidewalk at east reference line. 3/4" diff at NE app sidewalk. Concrete spalls in edges of beams in south sidewalk surface. (10/18)
6. Deck Bottom Surface (SIA-58B)	N	N	N	(10/22) (10/20) (10/18)
7. Deck (SIA-58)	5	5	8	New concrete deck installed in 2021. (10/22) HMA wearing surface or micro surface above adjacent box beams. (10/20) Newer HMA wearing surface or micro surface above adjacent box beams. (10/18)
8. Drainage				(10/22) (10/20) (10/18)

SUPERSTRUCTURE

10/18 10/20 10/22

STR 11081				BRIDGE SAFETY INS	PECTION REPORT	
Facility ISLAND DRIVE Feature TRAVER CREEK			Latitude / Longitude 42.2891 / -83.7316 Length / Width / Spans 24 / 42.7 / 1		MDOT Structure ID 815021200887B01 Owner City: ANN ARBOR(0212)	Structure Condition Good Condition(7)
Location 0.75 MI E OF US-23 I	RD.			/ Recon. / Paint / Ovly.	TSC Brighton(3)	Operational Status A Open, no restriction(A)
Region / County	אכ			rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Wash	tenaw(8	1)	5 Pre	estressed Concrete / 05 Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing
9. Stringer (SIA-59)	6	6	7	or exposed strands. Tie ro Efflorescence, moisture at beams. No spalls, delam Efflorescence, moisture at	nd ends at center of bridge I and stalactites present at boo inations, or exposed strand	x beam joints. Grout is missing between ls. (10/20) x beam joints. Grout is missing between
10. Paint (SIA-59A)	N	N	N	(10/22) (10/20) (10/18)		
11. Section Loss	N	N	N	(10/22) (10/20) (10/18)		
12. Bearings	6	6	7	on the east abutment over Elastomeric bearing pads	slightly overhang the abutn hangs by 1" but appears to slightly overhang the abutn	nents. The pad at the south fascia beam be fully supported. (10/20) nents. The pad at the south fascia beam be fully supported. (10/18)
SUBSTRUCTURE						
	10/18	10/20	10/22	!		
13. Abutments (SIA-60)	7	7	7	Multiple locations of expos spalls and one delamination Multiple locations of expos	sed rebar due to insufficient on in west abutment. Trees sed rebar due to insufficient	nation in west abutment. (10/22) t cover. Minor vertical cracking with no s growing on top of wingwalls. (10/20) t cover. Minor vertical cracking with no s growing on top of NE wingwall. (10/18)
14. Piers (SIA-60)	N	N	N	(10/22) (10/20) (10/18)		
15. Slope Protection	4	4	7	Undermining of concrete of slopes. (10/20)	-	(22) 'and NE quadrants. Vegetation along 'and NE quadrants. Vegetation along
16. Channel (SIA-61)	6	6	7	in upstream (north) end. ('Concrete channel lining upstream (12" deep extending 7' back corner of wingwall and abback at the NE quadrant. abutment and corner crack Concrete channel lining upstream (12" deep extending 7' back corner of wingwall and abbextending 3' back at the N	10/22) Inder bridge is being underm k at the SW quadrant, incluutment. Erosion is present The concrete lining is in faks in undermined areas. (10 nder bridge is being underm k at the SW quadrant, incluutment. Erosion is present	nined. Erosion is present approximately ding a scour hole approx. 3' deep at 3" below the the concrete liner, lining is in fair condition with holes along
17. Scour Inspection	4	4	8	scour hole approx. 3' deep the concrete liner, extendi Erosion is present approxi scour hole approx. 3' deep	o at corner of wingwall and ng 3' back at the NE quadra mately 12" deep extending	7' back at the SW quadrant, including a abutment. Erosion is present 3" below

APPROACH

10/18 10/20 10/22

Modified by: TRANAP8100 on 02/27/2023 Printed on 04/20/2023 Page 2 of 3

STR 11081	BRIDGE SAFE	TY INSPECTION REPORT			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)		
Feature	Length / Width / Spans	S Owner			
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / C	Ovly. TSC	Operational Status		
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete Box Bm/Gird- Multiple	/ 05	8 Stable Above Footing		
18. Approach 8 7 Pavement	A thin HMA overlay cracks on approac A thin HMA overlay	hes. Not present in gutters. (10/20)	aches and across deck. Minor trans		
19. Approach 7 Shoulders Sidewalks	Concrete sidewalk elevation difference Concrete sidewalk	Concrete sidewalks present in the NE, SE, and SW quadrants are in good condition. 1 1/2" elevation difference at east reference line on south sidewalk. (10/20) Concrete sidewalks present in the NE, SE, and SW quadrants are in good condition. 1 1/2" elevation difference at east reference line on south sidewalk. 3/4" elevation difference in NE			
20. Approach Slopes	(10/22) (10/20) (10/18)				
21. Utilities	Overhead lines alo unsupported along abutments. (10/20) Overhead lines alo	ong north side, parallel to road. 2" di length and sagging. 8" diameter (g	ameter conduit along south fascia - as line?) under beam 2N through ameter conduit along south fascia -		
22. Drainage Culverts	(10/22) (10/20) (10/18)				
MISCELLANEOUS					
Guard Rail		Other Items			
ltem	Rating	Item	Rating		
 36A. Bridge Railings	1	71. Water Adequacy	7		
36B. Transitions	1	72. Approach Alignment	8		
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports		
36D. Approach Guardrail Ends	1	High Load Hit (M)	No		
		Special Insp. Equipment Underwater Insp. Method	2 1		
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking			
Critical Feature Inspections (S	iIA-92)				
•	Freq Date				
92A. Fracture Critical	<u> </u>				
92B. Underwater					

92C. Other Special 92D. Fatigue Sensitive

STR 11081 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Facility** Latitude / Longitude **Structure Condition** ISLAND DRIVE 42.2891 / -83.7316 815021200887B01 Good Condition(7) **Feature** Length / Width / Spans Owner 24 / 42.7 / 1 TRAVER CREEK City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.75 MI E OF US-23 BR 1962 / 2021 / A Open, no restriction(A) Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/19/2022 / 4NTU 8 Stable Above Footing Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 1962 106 - Year Reconstructed 2021 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 0 10R - Best 3m Unclr-Rt 99 99 10R - Best 3m Unclr-Rt 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 7 Control Section Control Section 80 - Post Type 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 0 12 - Base Highway Network 1 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000046049 63 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 26 - Functional Class 26 - Functional Class 19 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 0 29 - ADT 959 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2016 30 - Year of ADT 45 - Num Main Spans 1 32 - Appr Roadway Width 25.9 5 42B - Service Type Under 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 25.98 47L - Left Horizontal Clear 48 - Max Span Length 23 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 24 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 5.1 99 47R - Right Horizontal Clear 27.2 54B - Left Underclearance 99 50B - Width Right Curb/SW 8 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 27.2 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 42.7 109 - Truck % 5 55A - Reference Feature Ν 112 - NBIS Length 110 - Truck Network 55B - Right Horiz Clearance 0 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 1000 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/19/2022 2035 102 - Traffic Direct Freeway 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 1 92B - Und Water Reg/Freg Ν 114 - Future ADT 36B - Rail Transition 1 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 7 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 5 75 - Type of Work 35 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 24 176A - Und Water Insp Method 71 - Waterway Adequacy 94 - Bridge Cost 162 58 - Deck Rating 8 72 - Approach Alignment 8 95 - Roadway Cost 176 58A/B - Deck Surface/Bottom N 8 103 - Temporary Structure 96 - Total Cost 338 59 - Superstructure Rating 7 113 - Scour Criticality 97 - Year of Cost Estimate 2016 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating 37 - Historical Significance 31 - Design Load 5 4 62 - Culvert Rating N 98A - Border Bridge State 41 - Open, Posted, Closed Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 8 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 1.3 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 8 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 0 1.26 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 1 4 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 8 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load .91 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11081	SAFETY INSPECTION REPORT - AASHTO ELEMENTS						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition				
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)				
Feature	Length / Width / Spans	Owner					
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing				

No inspections available for bridge key 815021200887B01

STR 11081	WORK RECOM		
Facility	Latitude / Longitude MDOT Structure ID		Structure Condition
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing

WORK RECOMME	NDATIONS				4NTU
Inspector Name		Agency / Company Name	I	nsp. Freq.	Insp. Date
Pedro Trana		DLZ Michigan, Inc.		24	10/19/2022
CRE	W RECOMM	ENDATIONS	CONTRACT RECOMMENDATIONS		
Recommendation Type	Priority	Description	Recommendation Type	Priority	Description

STR 11081	SCOUR CRITICAL BR	IDGE ACTION PLAN	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing

No plan available for bridge key 815021200887B01

STR 11081 LOAD RATING ASSUMPTIONS **Facility** Latitude / Longitude **MDOT Structure ID** Structure Condition ISLAND DRIVE 42.2891 / -83.7316 815021200887B01 Good Condition(7) **Feature** Length / Width / Spans TRAVER CREEK City: ANN ARBOR(0212) 24 / 42.7 / 1 Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 0.75 MI E OF US-23 BR 1962 / 2021 / Brighton(3) A Open, no restriction(A) **Last NBI Inspection** Region / County Material / Design Scour Evaluation 10/19/2022 / 4NTU University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 8 Stable Above Footing Box Bm/Gird- Multiple

Rating Considers Field Condition of Members: Inspection Date: Yes 10/19/2022

Deterioration:

None that impact capacity

Most Recent Year Construct / Reconstruct / Overlay: 2021

History of Work Impacting Load Rating:

The bridge was rehabilitated in 2021. The scope of work included sidewalk and railing replacement, removal of the existing HMA wearing surface and placement of a 6" minimum concrete deck with a normal crown.

5 Prestressed Concrete ksi Beam f'c / fb: ksi **Superstructure Component:** Beam fy: 5.0

Shop Drawings Verified: Composite: Nο Number of Beams: 14 Nο

Beam Size(s) & Names (each

span):

(14) 12" deep x 36" wide; 1 span

Deck Design Load > H15: 60.0 / 4.0 Deck: Thickness (in.): Fy / f'c: ksi Yes

Wearing Surface: Mat'l: Thickness (in.): Unit Weight (pcf.): 150.0

> **LEFT CENTER RIGHT**

Barrier: Type / Weight (plf.): Aesth. Parapet / 320.0 Aesth. Parapet / 320.0 Tübe

Tübe

Sidewalk: Width / Thick (in.): 75.5 / 10.2 111.0 / 11.3

Clear Roadway (ft.): 27.2

Additional Loads:

Pedestrian Loading applied to the beams directly under the sidewalks as a girder member load. A sidewalk load of 85 psf was applied as per the AASHTO Standard Specifications, 17th Edition, Section 3.14.1.1 for spans 0 ft to 25 ft in length. The applied loads as as follows: 178 lb/ft @ G1 & G14, 255 lb/ft @ G2, G12, & G13.

Unique Factors That Affect Capacity:

Box beams act as sidewalk/curb on the outside of the roadway. 14 beams total, 2 beams act as north sidewalk, 3 beams act as south sidewalk, 9 beams below roadway. Bridge is non-composite. Two models were considered, one with all 14 beams and one with just the 9 roadway beams. The model with just the 9 roadway beams controlled the load rating.

Analyzed By: 02/22/2023 Carrie Hamel Date:

Modified by: TRANAP8100 on 03/29/2023 Printed on 04/20/2023 Page 1 of 1

STR 11081 LOAD RATING SUMMARY **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** ISLAND DRIVE 42.2891 / -83.7316 815021200887B01 Good Condition(7) **Feature** Length / Width / Spans Owner TRAVER CREEK 24 / 42.7 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.75 MI E OF US-23 BR 1962 / 2021 / Brighton(3) A Open, no restriction(A)

Last NBI Inspection

10/19/2022 / 4NTU

Scour Evaluation

8 Stable Above Footing

Compliance Issue: None
Compliance Verified: No

Analysis Program: AASHTOWare Bridge Rating (BrR)

Material / Design

Box Bm/Gird- Multiple

5 Prestressed Concrete / 05

Analysis Program Version: 7.1.1.3001

Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022

Controlling component and failure mode:

Design Flexure Concrete, Truck #17 or #18 Girder G3 (3rd Beam from Left Fascia)

NEW INVENTORY CODING

Region / County

University(6) / Washtenaw(81)

NBI Item 63 - Operating Rating Method 8 LRFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 1.3

MDOT Item 64MA - Michigan Operating Method 8 LRFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.26 MDOT Item 64MC - Michigan Operating Truck 4

NBI Item 65 - Inventory Rating Method 8 LRFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 0.9

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

 Analyzed By:
 Carrie Hamel
 Date:
 02/22/2023

 Checked By:
 Kyle Slavik
 Date:
 02/22/2023

STR 11081	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
ISLAND DRIVE	42.2891 / -83.7316	815021200887B01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
TRAVER CREEK	24 / 42.7 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 BR	1962 / 2021 / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/19/2022 / 4NTU	8 Stable Above Footing

No inspections available for bridge key 815021200887B01

STR 11081 OUTSTANDING WORK MDOT Structure ID Facility Latitude / Longitude **Structure Condition** ISLAND DRIVE 815021200887B01 42.2891 / -83.7316 Good Condition(7) **Feature** Length / Width / Spans Owner TRAVER CREEK 24 / 42.7 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.75 MI E OF US-23 BR 1962 / 2021 / A Open, no restriction(A) Brighton(3) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/19/2022 / 4NTU 8 Stable Above Footing Box Bm/Gird- Multiple

WORK RECOMMENDATIONS

CHANNEL/SCOUR

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Scour Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Fill in scour holes and undermined areas of channel lining. (Mark Lessens 11/20/2020)

REHAB COMPLETED IN 2021. (Pedro Trana 03/17/2023)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Channel Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Fill in scour holes and undermined areas of channel lining. (Mark Lessens 11/20/2020)

REHAB COMPLETED IN 2021. (Pedro Trana 03/17/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Other

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Replace railings with compliant railings, including approach guardrails. (Mark Lessens 11/20/2020)

REHAB COMPLETED IN 2021. (Pedro Trana 03/17/2023)

STR 11066	BRIDGE SAFETY INS			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
E STADIUM BLVD	42.263 / -83.7418	814021200015R01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway	

NBI INSPECTION					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date		
Kyle Slavik	DLZ Michigan	24	10/10/2023		

GENERAL NOTES

Healer/sealer applied to bridge deck in 2012 during construction and opened to traffic on Nov. 14, 2012. Healer/sealer applied to bridge deck in Spring 2017.

deck in Spring 2017.				
DECK				
	10/19	10/21	10/23	
1. Surface (SIA-58A)	7	6	6	Healer/sealer applied to bridge deck in Spring 2017. There are open transverse cracks in the deck surface near midspan. There is map cracking and reflective cracking present throughout. (10/23) Healer/sealer applied to bridge deck in Spring 2017. There are open transverse cracks in the deck surface near midspan. There is map cracking and reflective cracking present throughout. (10/21) Healer/sealer applied to bridge deck in Spring 2017. Cracks are present, but additional cracks are very difficult to determine. (10/19)
2. Expansion Joints	6	6	6	Debris at shoulders and curb line. Some minor wearing of joint seals along the wheel lines. (10/23) Debris at shoulders and curb line. Some minor wearing of joint seals. (10/21) Debris at shoulders and curb line. Some minor wearing of joint seals. (10/19)
3. Other Joints	6	6	5	Minor debris present. Some minor adhesion loss, some material missing and material settlement. Spall in sidewalk adjacent to joint seal in SW and SE quadrants. The west joint is missing material in the eastbound lanes and shoulder. (10/23) Minor debris present. Some minor adhesion loss, some material missing and material settlement. Spall in sidewalk adjacent to joint seal. (10/21) Minor debris present. Some minor adhesion loss, some material missing and material settlement. Spall in sidewalk adjacent to joint seal. (10/19)
4. Railings	7	7	6	Concrete railing has vertical hairline cracks spaced every 4' to 5'. The south railing has map cracking on the vertical face near the east end of the bridge. The south railing joint material near midspan is loose. The protective coating on the steel handrails is flaking throughout. (10/23) Concrete railing has vertical hairline cracks spaced every 7' to 10'. (10/21) Concrete railing has vertical hairline cracks spaced every 7' to 10'. (10/19)
5. Sidewalks or Curbs	7	6	6	Concrete sidewalks along both sides have numerous full and partial width transverse cracks. Wider cracks at west end of bridge. There are open cracks with minor efflorescense in the north sidewalk at the east end. (10/23) Concrete sidewalks along both sides have numerous full and partial width transverse cracks. Wider cracks at west end of bridge. There are open cracks with minor efflorescense in the north sidewalk at the east end. (10/21) Concrete sidewalks along both sides have numerous full and partial width transverse cracks. Wider cracks at west end of bridge. (10/19)
6. Deck Bottom Surface (SIA-58B)	N	N	N	Adjacent box beams does not provide bottom of deck inspection. There is evidence that the healer/sealer penetrated all the way to the bottom of the grout joints between the beams (brownish color in small cracks). (10/23) Adjacent box beams does not provide bottom of deck inspection. There is evidence that the healer/sealer penetrated all the way to the bottom of the grout joints between the beams (brownish color in small cracks). (10/21) Adjacent box beams does not provide bottom of deck inspection. There is evidence that the healer/sealer penetrated all the way to the bottom of the grout joints between the beams (brownish color in small cracks). (10/19)

STR 11066				BRIDGE SAFETY INS	PECTION REPORT			
Facility E STADIUM BLVD Feature ANN ARBOR RAILI Location 0.5 MI E OF MAIN S Region / County University(6) / Was	ST	1)	42.26 Leng 118.3 Built 2012 Mate 5 Pre	tide / Longitude 33 / -83.7418 th / Width / Spans 3 / 77.1 / 1 / Recon. / Paint / Ovly. / / / rial / Design stressed Concrete / 05 Bm/Gird- Multiple	MDOT Structure ID 814021200015R01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/10/2023 / ZYEF	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway		
7. Deck (SIA-58)	7	7	6	Healer/sealer applied to bridge deck in Spring 2017. Most of the previously sealed crack have opened up. There are open longitudinal, transverse, and diagonal cracks throughout the bridge. The fascias have vertical cracks in line with the cracks in the railing. Healer/s was also applied to cracks prior to open to traffic in 2012. No spalls or delaminations. (1 Healer/sealer applied to bridge deck in Spring 2017. Cracks are present. There are open transverse cracks in the deck surface near midspan. Healer/sealer was also applied to c prior to open to traffic in 2012. No spalls or delaminations. (10/21) Healer/sealer applied to bridge deck in Spring 2017. Cracks are present. Healer/sealer also applied to cracks prior to open to traffic in 2012. No spalls or delaminations. (10/19)				
8. Drainage				Catch basins near the structure in the NE and SE quadrants. (10/23) Catch basins near the structure in the NE and SE quadrants. (10/21) Catch basins near the structure in the NE and SE quadrants. (10/19)				
SUPERSTRUCTU	JRE							
	10/19	10/21	10/23					
9. Stringer (SIA-59)	7	7	7	light staining of grout between penetrated to the bottom of slight staining on bottoms. Diagonal hairline crack in light staining of grout between penetrated to the bottom of slight staining on bottoms. Diagonal hairline crack in light staining of grout between the bottom of the staining of grout between the staining of gr	een beams at east end app of the grout joints. Some sig (10/23) north and south fascia bean een beams at east end app of the grout joints. Some sig (10/21) north and south fascia bean een beams at east end app of the grout joints. Some sig	ns at both ends. Area of cracked and ears to be filled with healer/sealer that ans of leakage between beams due to the sat both ends. Area of cracked and ears to be filled with healer/sealer that ans of leakage between beams due to the sat both ends. Area of cracked and ears to be filled with healer/sealer that ans of leakage between beams due to		
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)				
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)				
12. Bearings	8	8	8	Elastomeric bearings appe	ear in good condition. No bu ear in good condition. (10/21 ear in good condition. (10/19	lging or signs of overstress. (10/23)		
SUBSTRUCTUR	E							
	10/19	10/21	10/23					
13. Abutments (SIA-60)	7	7	7	northeast returnwall. The variable crack below the north fasc Some full height vertical harebar in northeast returnwall.	west abutment has rust stair ia beam. (10/23) airline cracks. 1 delaminatio all. (10/21) airline cracks. 1 delaminatio	utheast returnwall. Exposed rebar in ning below the fascia beams and a n on southeast returnwall. Exposed on on southeast returnwall. Exposed		
14. Piers (SIA-60)	N	N	N	(10/23) (10/21) (10/19)				
15. Slope Protection	N	N	N	(10/23) (10/21) (10/19)				

CTD 44000			•	DDIDGE CAFETY IN		
Facility E STADIUM BLVD Feature			42.26	Ude / Longitude 63 / -83.7418 hth / Width / Spans	MDOT Structure ID 814021200015R01 Owner	Structure Condition Fair Condition(6)
ANN ARBOR RAILROAD 118.3 Location Built 0.5 MI E OF MAIN ST 2012 Region / County Mater University(6) / Washtenaw(81) 5 Pres				3 / 77.1 / 1 / Recon. / Paint / Ovly.	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/10/2023 / ZYEF	Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)		
17. Scour Inspection	Ν	N	N	(10/23) (10/21) (10/19)		
APPROACH						
	10/19	10/21	10/23	•		
18. Approach Pavement	6	6	6	diagonal hairline cracks quadrants. Cracks still r Concrete approach pave diagonal hairline cracks quadrants. Cracks still r Concrete approach pave diagonal hairline cracks	in 2012 from expansion joint in temain (healer/sealer not appliement east and west of bridge in 2012 from expansion joint in emain (healer/sealer not appliement east and west of bridge in 2012 from expansion joint in	Partial healer/sealer applied to n approach slab in NE and SW ed to approach slabs). (10/23) Partial healer/sealer applied to n approach slab in NE and SW ed to approach slabs). (10/21) Partial healer/sealer applied to n approach slab in NE and SW ed to approach slab in NE and SW ed to approach slabs). (10/19)
19. Approach Shoulders Sidewalks	7	6	6	has 1/2" elevation difference Concrete sidewalks in a	ll quadrants have longitudinal : ence. (10/23) Il quadrants have cracking. (10 Il quadrants have minor cracki	and transverse cracking. SE quadrant 0/21) ng. (10/19)
20. Approach Slopes				(10/23) (10/21) (10/19)		
21. Utilities				Street lights present on	both sides of bridge. Light pole both sides of bridge. (10/21) both sides of bridge. (10/19)	e bases are rusty. (10/23)
22. Drainage Culverts				(10/23) (10/21) (10/19)		
MISCELLANEOUS	3					
Guard Rail			D-4		Other Items	Dating
Item	_		Rati	<u>ng</u>	Item	Rating
36A. Bridge Railing 36B. Transitions	5		1 N		71. Water Adequacy 72. Approach Alignment	N 8
36C. Approach Guardrail			N		Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends		N		High Load Hit (M) Special Insp. Equipment Underwater Insp. Method	No 0	
False Decking (Tim	ber) Rem	oved t	o Con	nplete Inspection	N/A - No False Decking	
Critical Feature In	spectio	ns (SI	A-92)			
92A. Fracture Critic 92B. Underwater	al		Fred	<u>Date</u>		

92C. Other Special 92D. Fatigue Sensitive

STR 11066 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Facility** Latitude / Longitude **Structure Condition** E STADIUM BLVD 42.263 / -83.7418 814021200015R01 Fair Condition(6) **Feature** Length / Width / Spans Owner ANN ARBOR RAILROAD 118.3 / 77.1 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN ST 2012 / A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/10/2023 / ZYEF N Not Over Waterway Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 0 10R - Best 3m Unclr-Rt 99 99 10R - Best 3m Unclr-Rt 78 - Paint Type 0 PR Number PR Number 79 - Rail Type Control Section Control Section 7 80 - Post Type 0 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 1 0000014295 06 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 3 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 14 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 42 29 - ADT 28000 29 - ADT 35 - Struct Flared 0 30 - Year of ADT 2010 30 - Year of ADT 45 - Num Main Spans 1 32 - Appr Roadway Width 2 54.1 42B - Service Type Under 46 - Num Apprs Spans n 32A/B - Ap Pvt Type/Width 54 47L - Left Horizontal Clear 6 48 - Max Span Length 116.5 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 118.3 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 11.5 99 47R - Right Horizontal Clear 54.0 54B - Left Underclearance 99 50B - Width Right Curb/SW 8.5 53 - Min Vert Clr Ov Deck 99 99 54C - Right Feature 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 54.1 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 77.1 109 - Truck % 55A - Reference Feature R 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 22.1 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 29780 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/10/2023 2030 102 - Traffic Direct Freeway 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 92B - Und Water Reg/Freg Ν 114 - Future ADT 36B - Rail Transition Ν 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail Ν 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination Ν 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 7 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 35 4 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 6 387.1 176A - Und Water Insp Method 0 71 - Waterway Adequacy 94 - Bridge Cost 27 Ν 58 - Deck Rating 6 72 - Approach Alignment 95 - Roadway Cost 8 0 58A/B - Deck Surface/Bottom N 6 103 - Temporary Structure 96 - Total Cost 27 59 - Superstructure Rating 7 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2017 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating Ν 37 - Historical Significance 31 - Design Load 5 В 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 8 **Navigation Data** 2.82 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 38 - Navigation Control Ν **EPA ID** 64MA - Mich Oper Rtg Method 8 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 0 1.11 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 18 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 8 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.77 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11066	SAFETY INSPECTION REPORT - AASHTO ELEMENTS						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition				
E STADIUM BLVD	42.263 / -83.7418	814021200015R01	Fair Condition(6)				
Feature	Length / Width / Spans	Owner					
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway				

NBI INSP	ECTION						ZYEF
Inspector Name		Agency / Company Nam	ie	Insp.	Freq.	Insp. D	ate
Kyle Slavik		DLZ Michigan	2	4	10/10/2023		
AASHTO	ELEMENTS					(Engl	ish Units)
Element Number	Element Name	Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4
Decks/Sla	bs						
803	Conc Deck - Coated Bars	9121	sq.ft	7297 80%	1824 20%	0 0%	0 0%
812	Reinf Conc Fascia	237	ft	213 90%	24 10%	0 0%	0 0%
Joints							
301	Pourable Joint Seal	310	ft	0 0%	232 75%	78 25%	0 0%
303	Assembly Joint With Seal	103	ft	73 71%	30 29%	0 0%	0 0%
Superstru	cture						
823	P/S Concrete Box Beams	2130	ft	1917 90%	213 10%	0 0%	0 0%
826	Beam End Deterioration	36	(EA)	32 89%	4 11%	0 0%	0 0%
Bearings							
310	Elastomeric Bearing	36	each	36 100%	0 0%	0 0%	0 0%
Substruct	ure						
215	Re Conc Abutment	431	ft	381 88%	50 12%	0 0%	0 0%
Other Eler	ments						
321	Re Conc Approach Slab	3067	sq.ft	2300 75%	767 25%	0 0%	0 0%
331	Re Conc Bridge Railing	237	ft	162 68%	75 32%	0 0%	0 0%
521	Conc Prot Coating	1654	sq.ft	1654 100%	0 0%	0 0%	0 0%
840	Reinf Conc Sidewalk	3615	sq.ft	2711 75%	904 25%	0 0%	0 0%

STR 11066	WORK RECOM			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
E STADIUM BLVD	42.263 / -83.7418	/ -83.7418 814021200015R01 Fair Conditi		
Feature	Length / Width / Spans	Owner		
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway	

WORK RECOMMENDATIONS			ZYEF				
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date				
Kyle Slavik	DLZ Michigan	24	10/10/2023				
RECOMMENDATIONS & ACTION ITEMS							
Recommendation Type	Priority	Description					

Recommendation Type	Priority	Description
Bridge Washing	M	Clean expansion joint
Deep Overlay	M	Place deep concrete overlay on deck surface

	MICHIGAN DEPARTMENT	OF TRANSPORTATION				
STR 11066	LOAD RATING A	ASSUMPTIONS				
Facility E STADIUM BLVD	Latitude / Longitude 42,263 / -83,7418	MDOT Structure ID 814021200015R01	Structure Condition Fair Condition(6)			
Feature	Length / Width / Spans	Owner	- a coa(c)			
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)				
ocation	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
).5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
Jniversity(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway			
Rating Considers Field Condition	on of Members: Yes	Inspection Date: 10	/18/2019			
No impact						
Most Recent Year Construct / R	econstruct / Overlav: 2012					
listory of Work Impacting Load	_					
New construction	r Kathig.					
Superstructure Component:	5 Prestressed Concrete	Beam fy: ks	si Beam f'c / fb: 7.0 ksi			
Composite:	Yes Number of Beams:	18 Shop Drav	wings Verified: Yes			
Beam Size(s) & Names (each span):	18 - 48"x48" box beams; single span					
Deck: Thickness (in.):	6.0 Fy/f'c: 60.0	/ 4.0 ksi De	ck Design Load > H15: Yes			
Vearing Surface: Mat'l:	Monolithic concrete Thi	ickness (in.): 1.5	Unit Weight (pcf.): 150.0			
	LEFT	CENTER	RIGHT			
Barrier: Type / Weight (plf.):	Concrete / 600.0 parapet	/	Concrete / 600.0 parapet			
Sidewalk: Width / Thick (in.):	156.5 / 10.25	/	120.5 / 9.75			
Clear Roadway (ft.):	54.0					
Additional Loads:						
i.85" unifrom concrete haunch ba	sed off construction field notes from	wet depth measurements (d	oes not contribute to strength)			
Inique Ecotors That Affact Com	acitu					
Jnique Factors That Affect Cap None	acity:					
Notice						

Analyzed By: Paul D. Izzo, P.E. **Date:** 11/12/2013

STR 11066 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionE STADIUM BLVD42.263 / -83.7418814021200015R01Fair Condition(6)

Feature Length / Width / Spans Owner

ANN ARBOR RAILROAD 118.3 / 77.1 / 1 City: ANN ARBOR(0212)

Puilt / Page / Paint / Out.

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.5 MI E OF MAIN ST2012 / / / Brighton(3)A Open, no restriction(A)

Region / County Material / Design Last NBI Inspection Scour Evaluation
University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple 10/10/2023 / ZYEF N N Not Over Waterway

Compliance Issue:NoneCompliance Verified:NoAnalysis Program:Other

Analysis Program Version: Bentley CONSPAN

Rating Considers Field Condition of Members: Yes Inspection Date: 10/18/2019

Controlling component and failure mode:

Interior beam, flexure

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 8 LRFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.82

MDOT Item 64MA - Michigan Operating Method 8 LRFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.11
MDOT Item 64MC - Michigan Operating Truck 18

NBI Item 65 - Inventory Rating Method 8 LRFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.77

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status N-No Restriction

 Analyzed By:
 Paul D. Izzo, P.E.
 Date:
 11/12/2013

 Checked By:
 Talia N. Belill, P.E.
 Date:
 11/18/2013

STR 11066	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E STADIUM BLVD	42.263 / -83.7418	814021200015R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway

No inspections available for bridge key 814021200015R01

STR 11066	OUTSTAND			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
E STADIUM BLVD	42.263 / -83.7418	814021200015R01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
ANN ARBOR RAILROAD	118.3 / 77.1 / 1	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / ZYEF	N Not Over Waterway	

V	N	O	R	K	RI	EC	O	MN	JEN	1D	AT	TONS	;
L													

DECKS/SLABS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Deep Overlay

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Place deep concrete overlay on deck surface (Kyle Slavik 10/26/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Bridge Washing

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Clean expansion joint (Kyle Slavik 10/26/2023)

STR 11067 BRIDGE SAFETY INSPECTION REPORT							
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	V			
E STADIUM BLVD	42.2627 / -83.7404	827 / -83.7404 814021200016S01 Fair Cond					
Feature	Length / Width / Spans	Owner					
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)					
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status				
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)				
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation				
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway				

NBI INSPECTION			MQSF
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/10/2023

GENERAL NOTES

Healer/sealer applied to bridge deck in 2012 during construction and opened to traffic on Nov. 14, 2012. Healer/sealer applied to bridge deck in Spring 2017. South sidewalk coated with epoxy.

deck in Spring 2017. South sidewalk coated with epoxy.							
DECK							
	10/19	10/21	10/23				
1. Surface (SIA-58A)	7	7	6	Healer/sealer applied to surface in Spring 2017. All cracks present at that time were sealed. Diagonal cracks present at deck corners. Map and reflective cracking are also present. Some of the previously sealed cracks have opened up. Healer/sealer also applied to cracks prior to open to traffic in 2012. (10/23) Healer/sealer applied to surface in Spring 2017. All cracks present at that time were sealed. Diagonal cracks present at deck corners. Map and reflective cracking are also present. Some additional cracks may be present, but very difficult to determine. Healer/sealer also applied to cracks prior to open to traffic in 2012. (10/21) Healer/sealer applied to surface in Spring 2017. All cracks present at that time were sealed. Some additional cracks may be present, but very difficult to determine. Healer/sealer also applied to cracks prior to open to traffic in 2012. (10/19)			
2. Expansion Joints	7	7	7	Some wear on seal and slight settlement. Debris at shoulders and curb line at sleeper slab. Small concrete spalls at east reference line in EB lane. Cracks with impending spalls at west reference line in WB lane. (10/23) Some wear on seal and slight settlement. Debris at shoulders and curb line at sleeper slab. Small concrete spalls at east reference line in EB lane. Cracks with impending spalls at west reference line in WB lane. (10/21) Some wear on seal and slight settlement. Debris at shoulders and curb line at sleeper slab. Small concrete spalls at east reference line in EB lane. (10/19)			
3. Other Joints	6	6	6	Joint filler is intact, but some shrinkage and settlement has occurred, especially NE quadrant at sleeper slab. Minor concrete spalling at east sleeper slab area where the sleeper slab is lower than the approach slab. Vegetation is present near the curbs. (10/23) Joint filler is intact, but some shrinkage and settlement has occurred, especially NE quadrant at sleeper slab. Minor concrete spalling at east sleeper slab area where the sleeper slab is lower than the approach slab. (10/21) Joint filler is intact, but some shrinkage and settlement has occurred, especially NE quadrant at sleeper slab. Minor concrete spalling at east sleeper slab area where the sleeper slab is lower than the approach slab. (10/19)			
4. Railings	7	7	7	Concrete railings have vertical hairline cracks spaced every 4-5'. The handrail coating is flaking throughout the bridge. (10/23) Concrete railings have vertical hairline cracks. (10/21) Concrete railings have vertical hairline cracks. (10/19)			
5. Sidewalks or Curbs	6	7	7	South sidewalk coated with epoxy in Spring 2017. Epoxy coating is peeling along the curb and at the joints. Concrete sidewalk on north side has numerous transverse cracks and diagonal cracks near bridge end reference lines and a longitudinal crack for most of the bridge length. Spall in north curb at E3 joint in west sleeper slab. (10/23) South sidewalk coated with epoxy in Spring 2017. Concrete sidewalk on north side has numerous transverse cracks and diagonal cracks near bridge end reference lines. Spall in north curb at E3 joint in west sleeper slab. (10/21) South sidewalk coated with epoxy in Spring 2017. Concrete sidewalk on north side has numerous transverse cracks and diagonal cracks near bridge end reference lines. Spall in north curb at E3 joint in west sleeper slab. Cracks in north sidewalk at reference lines. (10/19)			

STR 11067				BRIDGE SAFETY INS	PECTION REPORT				
Facility E STADIUM BLVD Feature SOUTH STATE STI Location 0.5 MI E OF MAIN S Region / County University(6) / Was	ST	1)	42.26 Leng 74.4 Built 2012 Mate	ude / Longitude 627 / -83.7404 th / Width / Spans / 77.1 / 1 / Recon. / Paint / Ovly. / / / rial / Design stressed Concrete / 05	MDOT Structure ID 814021200016S01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/10/2023 / MQSF	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation			
University(6) / was	snienaw(o	1)		Bm/Gird- Multiple	10/10/2023 / WIQSF	N Not Over Waterway			
6. Deck Bottom Surface (SIA-58B)	N	N	N	(10/23) (10/21) (10/19)					
7. Deck (SIA-58)	7	7	6	Healer/sealer applied to surface in Spring 2017. All cracks at that time were sealed. Some cracks have now opened up. Healer/sealer also applied to cracks prior to open to traffic in 2012. Minor spalls at east reference line. (10/23) Healer/sealer applied to surface in Spring 2017. All cracks sealed. Healer/sealer also applied to cracks prior to open to traffic in 2012. Minor spalls at east reference line. (10/21) Healer/sealer applied to surface in Spring 2017. All cracks sealed. Healer/sealer also applied to cracks prior to open to traffic in 2012. 4 delaminations at east reference line. (10/19)					
8. Drainage				Catch basins near the structure in the NW and SW quadrants. (10/23) Catch basins near the structure in the NW and SW quadrants. (10/21) Catch basins near the structure in the NW and SW quadrants. (10/19)					
SUPERSTRUCTU	JRE								
	10/19	10/21	10/23						
9. Stringer (SIA-59)	8	8	7	No visible cracking, spalls, or delaminations. Minor cracking in grout between beams throughout. (10/23) No visible crackings, spalls, or delaminations. Minor cracking in grout between beams, east end, south side. (10/21) No visible crackings, spalls, or delaminations. Minor cracking in grout between beams, east end, south side. (10/19)					
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)					
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)					
12. Bearings	7	8	8	Elastomeric bearings appe	ear in good condition. No sig ear in good condition. (10/2° ear in good condition. (10/19				
SUBSTRUCTURE	E								
	10/19	10/21	10/23						
13. Abutments (SIA-60)	8	8	7	leaking cracks at the wings One delamination at base wingwalls. (10/23) Few hairline vertical cracks (10/21)	wall interfaces. Both location of SE wingwall. Minor coations. Isolated surface spalls. O	surface spalls. The west abutment has ns have staining and mineral buildup. ng failures in SW, SE, and NE one delamination at base of SE wingwal ase of SE wingwall. (10/19)			
14. Piers (SIA-60)	N	N	N	(10/23) (10/21) (10/19)					
15. Slope Protection	N	N	N	(10/23) (10/21) (10/19)					
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)					

			ı	MICHIGAN DEPARTMENT	OF TRANSPORTATION				
STR 11067				BRIDGE SAFETY INS	SPECTION REPORT				
Facility E STADIUM BLVD Feature SOUTH STATE STRE Location 0.5 MI E OF MAIN ST Region / County University(6) / Washte		Latitude / Longitude 42.2627 / -83.7404 Length / Width / Spans 74.4 / 77.1 / 1 Built / Recon. / Paint / Ovly. 2012 / / / Material / Design			MDOT Structure ID 814021200016S01 Owner City: ANN ARBOR(0212 TSC Brighton(3) Last NBI Inspection 10/10/2023 / MQSF	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway			
17. Scour Inspection	N	N	N	(10/23) (10/21) (10/19)					
APPROACH									
	10/19	10/21	10/23	3					
18. Approach Pavement	7	7	7	south westbound lane. HI bridge approach at sleeper app slab/sleeper slab with One of the reflections alor slab/approach pavement Concrete approach to we south westbound lane. HI sleeper slab where there with dirt. Longitudinal and Concrete approach to we westbound lane. HMA par slab where there is a difference of the concrete approach to we westbound lane.	MA pavement with sealed or slab where there is a differ of dirt. Longitudinal and diagong the centerline in the west interface is sealed except fest. Minor pop-outs and scraw MA pavement to east. Minor is a difference in elevation did diagonal cracks in SW, Slat. Minor pop-outs in west avement to east. Minor pop-outs in year.	spes in west approach at sleeper slab in r pop-outs in east bridge approach at Settlement at NE app slab/sleeper slab E and NW quads. (10/21) approach at sleeper slab in south outs in east bridge approach at sleeper nent at NE app slab/sleeper slab with dirt.			
19. Approach Shoulders Sidewalks	7	7	7	approach sidewalks have Concrete sidewalks in all (10/21)	Concrete sidewalks in all quadrants have minor hairline cracking concentrated at light pole				
20. Approach Slopes				(10/23) (10/21) (10/19)					
21. Utilities				Street lights present on be	oth sides of bridge. (10/23) oth sides of bridge. (10/21) oth sides of bridge. (10/19)				
22. Drainage Culverts				(10/23) (10/21) (10/19)					
MISCELLANEOUS									
Guard Rail			_		Other Items				
<u>Item</u>			Rati		tem	Rating			
36A. Bridge Railings			1	•	71. Water Adequacy	N			

Guard Rail		Other Items	
<u>Item</u>	Rating	<u>Item</u>	Rating
36A. Bridge Railings	1	71. Water Adequacy	N
36B. Transitions	N	72. Approach Alignment	8
36C. Approach Guardrail	N	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	N	High Load Hit (M)	No
		Special Insp. Equipment	
		Underwater Insp. Method	0
False Decking (Timber) Removed to Complete Inspection		N/A - No False Decking	

Critical Feature Inspections (SIA-92)

Freq

92A. Fracture Critical 92B. Underwater

92C. Other Special

Date

STR 11067 BRIDGE SAFETY INSPECTION REPORT				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	V
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway	

92D. Fatigue Sensitive

STR 11067 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Facility** Latitude / Longitude **Structure Condition** E STADIUM BLVD 42.2627 / -83.7404 814021200016S01 Fair Condition(6) **Feature** Length / Width / Spans Owner SOUTH STATE STREET 74.4 / 77.1 / 1 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN ST 2012 / A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/10/2023 / MQSF N Not Over Waterway Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type <u>5</u> 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 0 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 00000 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 0 0 77 - Steel Type 0 10R - Best 3m Unclr-Rt 99 99 10R - Best 3m Unclr-Rt 15 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 0 Control Section Control Section 80 - Post Type 11 - Mile Point 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000014295 06 0000014275 08 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 3 1 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 3 26 - Functional Class 26 - Functional Class 14 14 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 20 29 - ADT 20420 28000 29 - ADT 35 - Struct Flared 0 30 - Year of ADT 2010 30 - Year of ADT 2010 45 - Num Main Spans 1 32 - Appr Roadway Width 54.1 42B - Service Type Under 1 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 54 47L - Left Horizontal Clear 0 6 48 - Max Span Length 73 42A - Service Type On 47R - Right Horizontal Clear 64.01 5 49 - Structure Length 74.4 47L - Left Horizontal Clear 0.0 54A - Left Feature <u>H</u> 50A - Width Left Curb/SW 11.5 0 47R - Right Horizontal Clear 54.0 54B - Left Underclearance 0 50B - Width Right Curb/SW 8.5 53 - Min Vert Clr Ov Deck 99 99 54C - Right Feature Н 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 15 5 51 - Width Curb to Curb 54 102 - Traffic Direct Under Clearance Year 2013 2 52 - Width Out to Out 77.1 109 - Truck % 55A - Reference Feature Н 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 29780 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/10/2023 2030 0 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 2 92A - Frac Crit Reg/Freg Ν 109 - Truck % 5 Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 0 36A - Bridge Railing 92B - Und Water Reg/Freg Ν 114 - Future ADT 23160 36B - Rail Transition Ν 93B - Und Water Insp Date 115 - Year Future ADT 2030 36C - Approach Rail Ν 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination Ν 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 8 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 4 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 3 242.8 176A - Und Water Insp Method 0 71 - Waterway Adequacy Ν 94 - Bridge Cost 27 58 - Deck Rating 6 72 - Approach Alignment 95 - Roadway Cost 8 0 58A/B - Deck Surface/Bottom N 6 103 - Temporary Structure 96 - Total Cost 27 59 - Superstructure Rating 7 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2017 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating Ν 37 - Historical Significance 31 - Design Load 5 В 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 8 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load 2.68 Ν 38 - Navigation Control Ν **EPA ID** 64MA - Mich Oper Rtg Method 8 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 0 1.43 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 1 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 8 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 2.07 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11067	TS			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway	

NBI INSP	PECTION						MQSF	
Inspector Name		Agency / Company Name		Insp.	Insp. Freq.		Insp. Date	
Kyle Slavik	(DLZ Michigan		24		10/10/2023		
AASHTO	ELEMENTS					(Engl	ish Units)	
Element Number	Element Name	Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4	
Decks/Sla	bs							
803	Conc Deck - Coated Bars	5736	sq.ft	5736 100%	0 0%	0 0%	0 0%	
812	Reinf Conc Fascia	236	ft	212 90%	24 10%	0 0%	0 0%	
Joints								
301	Pourable Joint Seal	245	ft	149 61%	66 27%	30 12%	0 0%	
303	Assembly Joint With Seal	82	ft	21 26%	61 74%	0 0%	0 0%	
Superstru	cture							
823	P/S Concrete Box Beams	1340	ft	1340 100%	0 0%	0 0%	0 0%	
826	Beam End Deterioration	36	(EA)	36 100%	0 0%	0 0%	0	
Bearings								
310	Elastomeric Bearing	36	each	36 100%	0 0%	0 0%	0 0%	
Substruct	ure							
215	Re Conc Abutment	465	ft	435 94%	30 6%	0 0%	0 0%	
521	Conc Prot Coating	2000	sq.ft	1980 99%	20 1%	0 0%	0 0%	
852	Reinf Concrete Wingwall	4	(EA)	4 100%	0 0%	0 0%	0	
Other Eler	ments							
321	Re Conc Approach Slab	3067	sq.ft	1850 60%	1217 40%	0 0%	0 0%	
331	Re Conc Bridge Railing	236	ft	169 72%	67 28%	0 0%	0	
521 Modified by	Conc Prot Coating v: SLAVIKK1992 on 10/26/202	1040 Printed o	sq.ft in 10/26/2023	1040	0	0 P:	0 age 1 of 2	
widuiiled by	7. OLAVIIXIX 1992 UII 10/20/202	.o Filited 0	11 10/20/2023			Г	age 1 01 Z	

STR 11067	SAFETY INSPECTION REPORT - AASHTO ELEMENTS					
Facility	Latitude / Longitude	MDOT Structure ID		Structure Co	Structure Condition	
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01		Fair Conditio	Fair Condition(6)	
Feature	Length / Width / Spans	Owner				
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC Operational Status		Status		
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)		A Open, no r	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection		Scour Evalu	ation	
University(6) / Washtenaw(81	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF		N Not Over V	Vaterway	
			100%	0%	0%	0%
840 Reinf Conc Sidev	valk 2615	sq.ft	2354	261	0	0
			90%	10%	0%	0%

STR 11067	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway

WORK RECOMMENDATIONS					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date		
Kyle Slavik	DLZ Michigan	24	10/10/2023		
RECOMMENDATIONS & ACTION ITEMS					
Recommendation Type	Priority	Description			
Bridge Washing	M	Clean expansion j	oint		
Deep Overlay	M	Place deep concrete overlay	on deck surface		

STR 11067 LOAD RATING ASSUMPTIONS					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway		
Rating Considers Field Condition	on of Members: Yes	Inspection Date: 10/	18/2019		
None					
Most Recent Year Construct / R	econstruct / Overlay: 2012				
History of Work Impacting Load	•				
New construction	a Kating.				
New construction					
Superstructure Component:	5 Prestressed Concrete	Beam fy: ks	i Beam f'c / fb: 7.0 ksi		
Composite:	Yes Number of Beams:	18 Shop Draw	vings Verified: Yes		
Beam Size(s) & Names (each span):	18 - 33" x 48" box beams; single sp	an			
Deck: Thickness (in.):	6.0 Fy/f'c: 60.0	/ 4.0 ksi Dec	k Design Load > H15: Yes		
Wearing Surface: Mat'l:	Monolithic concrete Thi	ickness (in.): 1.5	Unit Weight (pcf.): 150.0		
· ·	LEFT	CENTER	RIGHT		
Parrier, Type / Weight (plf.)		_	_		
Barrier: Type / Weight (plf.):	Concrete / 600.0 parapet	0 /	Concrete / 600.0 parapet		
Sidewalk: Width / Thick (in.):	156.5 / 10.25	/	120.5 / 9.75		
Clear Roadway (ft.):	54.0				
Additional Loads:					
	sed off construction field notes from	wet depth measurements (do	pes not contribute to strength)		
		,	5 ,		
Unique Factors That Affect Cap	acity:				
None					

Analyzed By: Paul D. Izzo, P.E. Date: 11/12/2013

STR 11067 LOAD RATING SUMMARY

Facility Latitude / Longitude E STADIUM BLVD 42.2627 / -83.7404 **Feature**

Length / Width / Spans

74.4 / 77.1 / 1

Built / Recon. / Paint / Ovly.

2012 / / Material / Design 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple

MDOT Structure ID 814021200016S01

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

10/10/2023 / MQSF

Structure Condition Fair Condition(6)



Operational Status A Open, no restriction(A) **Last NBI Inspection Scour Evaluation** N Not Over Waterway

Compliance Issue: None **Compliance Verified:** No **Analysis Program:** Other

Bentley CONSPAN **Analysis Program Version:**

Rating Considers Field Condition of Members: Yes **Inspection Date:** 10/18/2019

Controlling component and failure mode:

Interior beam, flexure

SOUTH STATE STREET

University(6) / Washtenaw(81)

0.5 MI E OF MAIN ST

Region / County

Location

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 8 LRFR in Rating Factor

NBI Item 64F - Federal Operating Ratings

MDOT Item 64MA - Michigan Operating Method 8 LRFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.43 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 8 LRFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 2.07

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction 5 5 - 100% or more **NBI Item 70 - Bridge Posting**

No Postina Posted By

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status N-No Restriction

Paul D. Izzo, P.E. Analyzed By: Date: 11/12/2013 Checked By: Talia N. Belill, P.E. Date: 11/18/2013

STR 11067	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway

No inspections available for bridge key 814021200016S01

STR 11067	OUTSTAND	ING WORK	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E STADIUM BLVD	42.2627 / -83.7404	814021200016S01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
SOUTH STATE STREET	74.4 / 77.1 / 1	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN ST	2012 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/10/2023 / MQSF	N Not Over Waterway

DATIONS Contact/User	Agency/Company Name						
Contact/User	Agency/Company Name						
	Agency/company Name	Estimated Quantity	Unit				
Material	Other Material	Actual Quantity	Unit				
Equipment			Complete Date				
Place deep concrete overlay on deck surface (Kyle Slavik 10/26/2023)							
Contact/User	Agency/Company Name	Estimated Quantity	Unit				
Material	Other Material	Actual Quantity	Unit				
Equipment			Complete Date				
erlay on deck surface	(Kyle Slavik 10/26/2023)						
Contact/User	Agency/Company Name	Estimated Quantity	Unit				
E N	Equipment erlay on deck surface Contact/User Material Equipment erlay on deck surface	Equipment erlay on deck surface (Kyle Slavik 10/26/2023) Contact/User Agency/Company Name Material Other Material Equipment erlay on deck surface (Kyle Slavik 10/26/2023)	Equipment erlay on deck surface (Kyle Slavik 10/26/2023) Contact/User Agency/Company Name Estimated Quantity Material Other Material Actual Quantity Equipment erlay on deck surface (Kyle Slavik 10/26/2023)				

Actual Quantity

Other Material

Activity

Comments

Personnel Hours

Material

Clean expansion joint (Kyle Slavik 10/26/2023)

Equipment

Unit

Complete Date

STR 11078 BRIDGE SAFETY INSPECTION REPORT						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)			
Feature	Length / Width / Spans	Owner				
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing			

NBI INSPECTION			A62W
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022

GENERAL NOTES

Delaminated areas of bridge deck overlay chipped and patched in Sept 2020.

DECK				
	10/18	10/20	10/22	
1. Surface (SIA-58A)	4	6	6	Deck patching project completed. Delaminated areas of bridge deck surface overlay chipped and patched with concrete by Contractor. Minor sand accumulation adjacent to both railings. Water ponding along south railing. (10/22) Recent (09/20) deck patching project completed. All delaminated areas of bridge deck surface overlay chipped and patched with concrete by Contractor. Minor sand accumulation adjacent to both railings. Water ponding along south railing. (10/20) Multiple cracks, delaminations, spalls, and concrete patches are present in the concrete overlay surface. Minor sand accumulation adjacent to both railings. Water ponding along south railing. (10/18)
2. Expansion Joints	7	7	7	Joint partially filled with dirt. No signs of leaking in gland. (10/22) Joint partially filled with dirt. No signs of leaking in gland. (10/20) Joint partially filled with dirt. No signs of leaking in gland. Joint was cleaned out during 2016 construction project. (10/18)
3. Other Joints	7	7	7	End joints in good condition due to new HMA approach. (10/22) End joints in good condition due to new HMA approach. (10/20) West approach HMA surface is across end joint. East joint in good condition due to new HMA approach. (10/18)
4. Railings	8	8	8	Railings are in good condition, but do not meet current standards due to oversized openings between posts. (10/22) Railings are in good condition, but do not meet current standards due to oversized openings between posts. (10/20) Railings are in good condition, but do not meet current standards due to oversized openings between posts. (10/18)
5. Sidewalks or Curbs	N	N	N	(10/22) (10/20) (10/18)
6. Deck Bottom Surface (SIA-58B)	4	4	4	Several transverse and longitudinal cracks with efflorescence. Some areas of minor delaminations and spalls. (10/22) Several transverse and longitudinal cracks with efflorescence. Some areas of minor delaminations and spalls. (10/20) Several transverse and longitudinal cracks with efflorescence. Some areas of minor delaminations and spalls. (10/18)
7. Deck (SIA-58)	4	5	5	Areas of deck overlay that were delaminated were chipped and patched in Sept 2020. Several transverse and longitudinal cracks with efflorescence present on underside of deck. Sand accumulation adjacent to both railings. Water ponding along south railing. (10/22) Areas of deck overlay that were delaminated were chipped and patched in Sept 2020. Several transverse and longitudinal cracks with efflorescence present on underside of deck. Sand accumulation adjacent to both railings. Water ponding along south railing. (10/20) Multiple cracks, delaminations, spalls, and concrete patches are present in the concrete overlay surface. Several transverse and longitudinal cracks with efflorescence present on underside of deck. Sand accumulation adjacent to both railings. Water ponding along south railing. (10/18)

STR 11078 BRIDGE SAFETY INSPECTION REPORT						
STR 11078						04-44-0-184
Facility TREATMENT PLAN Feature	T DR		42.27	ude / Longitude 703 / -83.6683 gth / Width/Spans	MDOT Structure ID 815021200000B01 Owner	Structure Condition Fair Condition(5)
HURON RIVER Location 0.5 MI E US-23			Built / Recon. / Paint / Ovly.		City: ANN ARBOR(0212) TSC Brighton(3)	Operational Status A Open, no restriction(A)
Region / County University(6) / Was	htenaw(81	1)		e rial / Design eel / 02 Multi Str Non Comp	Last NBI Inspection	Scour Evaluation 8 Stable Above Footing
	interiaw(o	')	3 316	·		
8. Drainage				Evidence of ponding along	south railing, both spans. (south railing, west span. (1 south railing, west span. (1	0/20)
SUPERSTRUCTU	IRE					
	10/18	10/20	10/22	2		
9. Stringer (SIA-59)	7	7	7	gap between the fixed bear have been replaced. (10/2/ Surface rust along fascia b gap between the fixed bear have been replaced. (10/2/ Surface rust along fascia b center fixed beam ends are	m ends of the south beams 2) eams. Minor rusting along a m ends of the south beams 0) eams. Minor rusting along a e in contact with each other	all beams top flanges. There is a minor . Utility supporting diaphragms at pier all beams top flanges. There is a minor . Utility supporting diaphragms at pier all beams top flanges. The north and at the pier. There is a minor gap ity supporting diaphragms at pier have
10. Paint (SIA-59A)	5	5	5	5% of steel is exposed in o The beam ends at the pier 5% of steel is exposed in o The beam ends at the pier	ther areas. Surface rust not and abutments were blaste ther areas. Surface rust not and abutments were blaste	ed and painted in 2016. Approximately ted along fascia beams. (10/22) and and painted in 2016. Approximately ted along fascia beams. (10/20) and painted in 2016. Approximately ted along fascia beams. (10/18)
11. Section Loss	2	2	2	Surface rust along fascia b	eams. Minor section loss ir eams. Minor section loss ir eams. No section loss in p	n primary members. (10/22) n primary members. (10/20) rimary members. (10/18)
12. Bearings	7	7	7	ends. (10/22) Bearings at the pier and abends. (10/20)	outments were cleaned and	painted in 2016, along with the beam painted in 2016, along with the beam painted in 2016, along with the beam
SUBSTRUCTURE	.					
	10/18	10/20	10/22	2		
13. Abutments (SIA-60)	6	6	6	Minor cracks under bearing walls. Horizontal crack at wingwall and abutment. Veracks in abutments were backwalls around utility per Minor cracks under bearing walls. Horizontal crack at wingwall and abutment. Veracks in abutments were backwalls around utility per Minor cracks under bearing walls. Horizontal crack at wingwall and abutment. Veracks in abutments were	SE cheekwall. There is a la ertical crack and minor spal injected during the 2016 conetrations were chipped and as at east abutment. Minor SE cheekwall. There is a la ertical crack and minor spal injected during the 2016 conetrations were chipped and as at east abutment. Minor SE cheekwall. There is a la ertical crack and minor spal	spalls and delamination along top of trige separation between the SE ls/delaminations on the west abutment. Is nstruction project. Areas of the dipatched, also. (10/20) spalls and delamination along top of trige separation between the SE ls/delaminations on the west abutment. Instruction project. Areas of the
14. Piers (SIA-60)	7	7	7	the 2016 construction proje Pier was chipped and patch the 2016 construction proje	ect. Minor delamination belo hed (shotcrete) in 2016. Cr ect. (10/20) hed (shotcrete) in 2016. Cr	racks in the pier were injected during by fascia beams. (10/22) racks in the pier were injected during racks in the pier were injected during

STR 11078				BRIDGE SAFETY INSF	PECTION REPORT	
Facility TREATMENT PLANT Feature	DR		42.27	ude / Longitude 703 / -83.6683 hth / Width/Spans	MDOT Structure ID 815021200000B01 Owner	Structure Condition Fair Condition(5)
HURON RIVER Location			117.1	/ 18.4 / 2 / Recon. / Paint / Ovly.	City: ANN ARBOR(0212) Operational Status
0.5 MI E US-23 Region / County			Mate	/ 1985 / 1986 / 2000 rial / Design	Brighton(3) Last NBI Inspection	A Open, no restriction(A) Scour Evaluation
University(6) / Wash	tenaw(8	1)	3 Ste	el / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing
15. Slope Protection	5	5	5	part of the 2016 construction Defined slopes with heavy construction project. (10/20)	on project. (10/22) vegetation. Trees and bru l) vegetation. Trees and bru	sion. Trees and brush were cut down as sh were cut down as part of the 2016 sh were cut down as part of the 2016
16. Channel (SIA-61)	6	6	6	approximately 3'-6' deep ur span. The scour hole at the Grout bags were also place Due to the bend in the river approximately 3'-8' deep ur span. The scour hole at the Grout bags were also place Due to the bend in the river approximately 3'-8' deep ur span. The scour hole at the	nder the west span and ape upstream end of the pied across the face of the er, water has eroded soil at nder the west span and ape upstream end of the pied across the face of the er, water has eroded soil at nder the west span and ape upstream end of the pied across the face of the er, water has eroded soil at nder the west span and ape upstream end of the pied	pier and east abutment. Water is proximately 5.5'-10' deep at the east r was filled with grout bags in 2016. east abutment in 2016. (10/22) pier and east abutment. Water is proximately 5.5'-10' deep at the east r was filled with grout bags in 2016. east abutment in 2016. (10/20) pier and east abutment. Water is proximately 5.5'-10' deep at the east r was filled with grout bags in 2016. east abutment in 2016. (10/18)
17. Scour Inspection	6	6	6	2022. No evidence of scou Underwater bridge inspecti 2018. No evidence of scou	r. (10/22) on was completed in 2019 r. (10/20) on was completed in 2014	9. Stream cross sections obtained in9. Stream cross sections obtained in14. Stream cross sections obtained in pection. (10/18)
APPROACH						
	10/18	10/20	10/22			
18. Approach Pavement	8	7	7	HMA surface newer at both HMA surface newer at both HMA surface new at both e deck. (10/18)	n ends of bridge. (10/20)	extends across end joint and onto bridge
19. Approach Shoulders Sidewalks	7	7	7	Shoulders in good condition Shoulders in good condition Shoulders in good condition	n. (10/20)	
20. Approach Slopes				(10/22) (10/20) (10/18)		
21. Utilities				fascia. Multiple overhead esewer outfall located NE of bridge. (10/22) 6" dia. conduit along south fascia. Multiple overhead esewer outfall located NE of bridge. (10/20) 6" dia. conduit along south fascia. Multiple overhead esewer outfall located NE of bridge. (10/20)	electric lines above north of bridge. Concrete flow confascia. 3' dia. pipe in each electric lines above north of bridge. Concrete flow confascia. 3' dia. pipe in each electric lines above north of bridge.	h beam bay. 3.5' dia. pipe along north deck /pipe fascia, parallel to road. Storm ntrol chamber located NE and SE of the beam bay. 3.5' dia. pipe along north deck /pipe fascia, parallel to road. Storm ntrol chamber located NE and SE of the beam bay. 3.5' dia. pipe along north deck /pipe fascia, parallel to road. Storm ntrol chamber located NE and SE of the beam bay. 3.5' dia. pipe along north deck /pipe fascia, parallel to road. Storm ntrol chamber located NE and SE of
				bridge. (10/18)	bridge. Concrete now co	TITO CHAMBEL located INE and SE OF

Guard Rail

Item Rating Item

Rating

Modified by: TRANAP8100 on 11/28/2022 Printed on 02/21/2023 Page 3 of 4

Other Items

STR 11078	В	RIDGE SAFETY INS	PECTION REPORT	
Facility	Latitude	/ Longitude	MDOT Structure ID	Structure Condition
TREATMENT PLANT DR	42.2703	-83.6683	815021200000B01	Fair Condition(5)
Feature	Length /	Width / Spans	Owner	
HURON RIVER	117.1 / 1	8.4 / 2	City: ANN ARBOR(0212)	
Location	Built / Re	con. / Paint / Ovly.	TSC	Operational Status
0.5 MI E US-23	1934 / 19	985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County	Material	/ Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel /	02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing
				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
36A. Bridge Railings	0	7	1. Water Adequacy	9
36B. Transitions	0	7	2. Approach Alignment	8
36C. Approach Guardrail	0	ī	emporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	H	ligh Load Hit (M)	No
		5	Special Insp. Equipment	2
		ι	Inderwater Insp. Method	3
False Decking (Timber) Removed	to Complet	e Inspection	N/A - No False Decking	
Critical Feature Inspections (S	SIA-92)			
	Freq	Date		
92A. Fracture Critical				
92B. Underwater	60	06/26/2019		
92C. Other Special				

92D. Fatigue Sensitive

STR 11078 STRUCTURE INVENTORY AND APPRAISAL **Structure Condition Facility** Latitude / Longitude **MDOT Structure ID** TREATMENT PLANT DR 42.2703 / -83.6683 815021200000B01 Fair Condition(5) Length / Width / Spans **Feature** Owner 117.1 / 18.4 / 2 **HURON RIVER** City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **Operational Status** 0.5 MI E US-23 1934 / 1985 / 1986 / 2000 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 3 Steel / 02 Multi Str Non Comp 10/19/2022 / A62W 8 Stable Above Footing **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 1934 106 - Year Reconstructed 1985 5B - Route Signing 5B - Route Signing 202 - Year Painted 1986 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 2000 5D - Route Number 00000 5D - Route Number 02 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 3 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 1 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 9 PR Number PR Number 79 - Rail Type 6 Control Section Control Section 80 - Post Type 2 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 0 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000046048 77 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 125 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 0 3 26 - Functional Class 26 - Functional Class 19 **Structure Dimensions** 28A - Lanes On 2 75 28B - Lanes Under 34 - Skew 37 29 - ADT 29 - ADT 35 - Struct Flared N 30 - Year of ADT 2002 30 - Year of ADT 45 - Num Main Spans 2 32 - Appr Roadway Width 5 20 42B - Service Type Under 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 20.01 47L - Left Horizontal Clear 48 - Max Span Length 59.1 42A - Service Type On 47R - Right Horizontal Clear 1 49 - Structure Length 117.1 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 0 99 47R - Right Horizontal Clear 16.4 54B - Left Underclearance 99 50B - Width Right Curb/SW 0 99 53 - Min Vert Clr Ov Deck 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 16.1 102 - Traffic Direct Under Clearance Year 3 52 - Width Out to Out 18.4 109 - Truck % 10 55A - Reference Feature Ν 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 75 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/19/2022 2022 102 - Traffic Direct Freeway 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 60 114 - Future ADT 36B - Rail Transition 0 93B - Und Water Insp Date 06/26/2019 115 - Year Future ADT 36C - Approach Rail 0 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 35 3 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 117 176A - Und Water Insp Method 3 71 - Waterway Adequacy 94 - Bridge Cost 77 9 58 - Deck Rating 5 72 - Approach Alignment 8 95 - Roadway Cost 58A/B - Deck Surface/Bottom 4 6 103 - Temporary Structure 96 - Total Cost 77 59 - Superstructure Rating 7 113 - Scour Criticality 97 - Year of Cost Estimate 2013 59A - Paint Rating 5 **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 6 61 - Channel Rating 37 - Historical Significance 31 - Design Load 6 5 0 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure Ν 64F - Fed Oper Rtg Load 2 38 - Navigation Control 0 **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 0 1.24 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 1 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.2 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11078	SAFETY INSPECTION REPORT - AASHTO ELEMENTS					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	*		
Feature	Length / Width / Spans	Owner				
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing			

No inspections available for bridge key 815021200000B01

STR 11078	WORK RECOMM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)
Feature	Length / Width / Spans	Owner	
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date			
Pedro Trana	DLZ Michigan, Inc.	24	10/19/2022			
RECOMMENDATIONS & ACTION ITEMS						
Recommendation Type	Priority	Description				
Other	M	Place signing for narrow bridge				

WORK RECOMMENDATIONS

A62W

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B]				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing	

UNDERWATER SPECIAL INSPEC		MG20	
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Amy Trahey	Great Lakes Engineering Group, LLC	60	06/26/2019

GENERAL NOTES

Bridge rehabilitation contract occurred since the previous 2014 underwater inspection. The 2016 plans called out grout bags being installed as scour countermeasures along the east abutment and also at the upstream (north) end of Pier 1w. Grout bags were observers by the diver at the east abutment, but nothing was observed at the U/S end of Pier 1w - probable that it was scoured away due the high velocity and angel of attack on the pier nose. Cross sections were taken by the routine bridge inspector during last inspection and are available on the documents tab in MiBridge.

INSPECTION PROCEDURES

Qualified Team: The team performing the underwater inspection is qualified in accordance with the National Bridge Inspection Standards 23 CFR Part 650.309. The underwater inspection was conducted by a three-person team consisting of a Qualified Dive Inspector, a Professional Engineer Dive Team Leader/Qualified Dive Inspector, and a Dive Tender.

Equipment: The inspection was done using Self-Contained Underwater Breathing Apparatus (SCUBA). During the inspection the divers accessed the bridge and worked from a 10-foot jon boat. Two-way wireless communications were used to convey inspection notes from the diver to the team leader and recorded on note sheets. Other equipment consisted of an underwater digital video camera, high intensity flashlight, dive knife, scraper, probing rod, 25 survey rod, and a digital depth sounder with built in transducer. Substructure units and beams are labeled from the south to the north, or west to east. Pier 1w denotes the first pier from the west.

Level of Inspection: A Level I inspection was conducted on 100% of the submerged substructure units and a Level II inspection was conducted on 10% of the submerged substructure unit. The Level I underwater inspection consisted of a close visual and tactile examination using large sweeping motions of the hands where visibility was limited. The inspection was conducted over the total exterior surface of each underwater substructure unit. Probing along the mud line was also done along each substructure unit and the adjacent streambed.

Approvals: This bridge does not fall under the jurisdiction of the United States Coast Guard (USCG). Approval was not required to perform the underwater inspections. Coordination was needed with the Utilities Engineer of the Ann Arbor Waste Water Treatment plant sign in and sign out of the dive team needed. Contact is Christopher J. Englert, P.E. 734-794-6450 ext 43823.

NAVIGATION PROTECTION SYSTEMS

Protection Systems

Inspection Comments

None present.

SCOUR PROTECTION

Number of Substructure Elements in Waterway

Scour Counter Measures Grouted Bags

Inspection Comments

Bridge rehabilitation contract occurred since the previous 2014 underwater inspection. The plans called out grout bags being installed as scour countermeasures along the east abutment and also at the upstream (north) end of Pier 1w. Grout bags were observers by the diver at the east abutment, but nothing was observed at the U/S end of Pier 1w - probable that it was scoured away due the high velocity and angel of attack on the pier nose.

Scour Critical Action Plan Available?

Scour Critical Action Plan Location

MAINTED MAIN		CONDITIONS
WAIERWAI	& WEATHER	CONDITIONS

Current Speed4.0Turbidity4.0Water Temperature64Stream Bed MaterialStoneMaximum Depth9Air Temperature78

Modified by: TRAHEYA5757 on 07/22/2019 Printed on 02/21/2023 Page 1 of 7

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B]				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing	

Marine Growth on Structure

There is 1/8" thick algae growth on all submerged abutment substructure units.

Weather Conditions on Day of Dive

Partly sunny, warm.

INSPECTION STAFF & EQUIPMENT

EngineerAmy L. Trahey, P.E.DiverCasey CollingsTenderBrian TraheyDive EquipmentScuba, Boat

Nearest Boat Launch Site

NE quadrant used to haul boat down to waterway, adjacent to railroad property.

Safety Concerns

High velocity of water. Tethered Diver. Dam located 1 mile upstream.

INSPECTION DETAILS

Waterway and Bank Observations

The physical conditions associated with the flow of water through the bridge, such as stream stability and the condition of the channel and slope, were evaluated. Slope protection in the form of concrete retaining walls line the channel banks in all four quadrants surrounding the bridge.

There is an outlet culvert at the northeast quadrant. The channel bottom consists of gravel.

Substructure Observations (Above the waterline)

Several concrete patched areas observed at both abutment walls and the pierwall and epoxy injected cracks.

Substructure Observations (Below the waterline)

East Abutment: There grout bags installed as a scour countermeasure along the center 18 feet of the footing. There is 1/8 inch algae growth below the water line. Channel bottom consists of gravel bottom. Vertical epoxy injected crack extends to the grout bags/bottom of streambed

West Abutment: There is 1/8 inch algae growth below the water line. Channel bottom consists of gravel bottom. Vertical epoxy injected crack extends to the bottom of streambed.

Pier 1w: There are several concrete patch repairs observed underwater on both the west and east faces of the pier wall. No grout bag scour countermeasures were observed at the north end of pier nose as denoted on rehab plans. Channel bottom consists of gravel bottom.

Page 2 of 7

Debris in Waterway

None observed.

Recommendations

Underwater Video Available?

Underwater Video Description Underwater Video Location

Stream Bed Profile Completed?

N Y

RECOMMENDATIONS AND ACTION ITEMS

Recommendation

Photographs?

Site Plan Completed?

Scour Repair

Priority Comments

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B]				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	1
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing	

L Install scour countermeasures at the east abutment and the upstream end of Pier 1w.

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B]

Facility TREATMENT PLANT DR

Feature HURON RIVER Location 0.5 MI E US-23

Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2703 / -83.6683 Length / Width / Spans 117.1 / 18.4 / 2

Built / Recon. / Paint / Ovly. 1934 / 1985 / 1986 / 2000 Material / Design

3 Steel / 02 Multi Str Non Comp 10/19/2022 / A62W

MDOT Structure ID

815021200000B01

Owner

City: ANN ARBOR(0212)

TSC Brighton(3)

Last NBI Inspection

Structure Condition

Fair Condition(5)

Operational Status

A Open, no restriction(A) **Scour Evaluation**

8 Stable Above Footing

SUPPORTING IMAGES



Document Name: DSCN3008.JPG

Category: Elevation Span Number:

Comments: South elevation



Document Name: DSCN3004.JPG

Category: Substructure

Span Number:

Comments: East elevation of Pier 1w



Document Name: DSCN3005.JPG

Category: Substructure

Span Number:

Comments: East abutment



Document Name: DSCN3006.JPG

Category: Substructure

Span Number:

Comments: Concrete returnwall at the SE quadrant

Modified by: TRAHEYA5757 on 07/22/2019

Printed on 02/21/2023

STR 11078

UNDERWATER INSPECTION REPORT [SIA #92-B]

FacilityTREATMENT PLANT DR

Feature
HURON RIVER
Location
0.5 MI E US-23
Region / County
University(6) / Washtenaw(81)

Latitude / Longitude 42.2703 / -83.6683 Length / Width / Spans 117.1 / 18.4 / 2 Built / Recon. / Paint / Ovly.

1934 / 1985 / 1986 / 2000 **Material / Design**

3 Steel / 02 Multi Str Non Comp 10/19/2022 / A62W

MDOT Structure ID 815021200000B01

Owner

City: ANN ARBOR(0212)

TSCBrighton(3)

Last NBI Inspection 10/19/2022 / A62W Structure Condition

Fair Condition(5)

Operational Status

A Open, no restriction(A)

Scour Evaluation

8 Stable Above Footing



Document Name: DSCN3009.JPG

Category: Substructure

Span Number:

Comments: West elevation of Pier 1w



Document Name: DSCN3010.JPG

Category: Substructure

Span Number:

Comments: West abutment



Document Name: DSCN3013.JPG

Category: Culvert Span Number:

Comments: Outlet culvert NE quadrant



Document Name: DSCN3007.JPG

Category: Channel Span Number:

Comments: SE quadrant

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B]

Facility TREATMENT PLANT DR

Feature HURON RIVER Location 0.5 MI E US-23 Region / County

University(6) / Washtenaw(81)

Latitude / Longitude 42.2703 / -83.6683 Length / Width / Spans 117.1 / 18.4 / 2 Built / Recon. / Paint / Ovly.

1934 / 1985 / 1986 / 2000 Material / Design

MDOT Structure ID 815021200000B01

Owner

City: ANN ARBOR(0212)

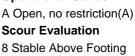
TSC Brighton(3) **Last NBI Inspection**

3 Steel / 02 Multi Str Non Comp 10/19/2022 / A62W

Structure Condition

Fair Condition(5)

Operational Status





Document Name: DSCN3011.JPG

Category: Channel Span Number:

Comments: SW quadrant



Document Name: DSCN3012.JPG

Category: Channel Span Number:

Comments: NW quadrant



Document Name: DSCN3014.JPG

Category: Channel Span Number:

Comments: Looking downstream/south



Document Name: DSCN3015.JPG

Category: Channel Span Number:

Comments: Looking upstream/north

STR 11078 UNDERWATER INSPECTION REPORT [SIA #92-B] Facility MDOT Structure ID Structure Condition Latitude / Longitude TREATMENT PLANT DR 42.2703 / -83.6683 815021200000B01 Fair Condition(5) **Feature** Length / Width / Spans Owner **HURON RIVER** 117.1 / 18.4 / 2 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 1934 / 1985 / 1986 / 2000 0.5 MI E US-23 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 3 Steel / 02 Multi Str Non Comp 10/19/2022 / A62W 8 Stable Above Footing



Document Name: DSCN3017.JPG

Category: Channel Span Number:

Comments: NE quadrant

STR 11078 SCOUR CRITICAL BRIDGE ACTION PLAN				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing	

No plan available for bridge key 815021200000B01

Region / County		LOAD RATING A	ASSUMPTIONS	
Location Built / Recon. / Paint / Ovly. TSC 0.5 MI E US-23 1934 / 1985 / 1986 / 2000 Region / County Material / Design 1934 / 1985 / 1986 / 2000 Material / Design Last NBI Inspection Scour Evaluation 8 Stable Above Footing Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022 Deterioration: None that impacts capacity Most Recent Year Construct / Reconstruct / Overlay: 2016 History of Work Impacting Load Rating: None Superstructure Component: 3 Steel Beam fy: 30.0 ksi Beam f'c / fb: Composite: No Number of Beams: 3 Shop Drawings Verified: No Beam Size(s) & Names (each span): Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: LEFT CENTER RIGHT	REATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	
Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022 Deterioration: None that impacts capacity Most Recent Year Construct / Reconstruct / Overlay: 2016 History of Work Impacting Load Rating: None Superstructure Component: 3 Steel Beam fy: 30.0 ksi Beam f'c / fb: Composite: No Number of Beams: 3 Shop Drawings Verified: No Beam Size(s) & Names (each span): Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	ocation .5 MI E US-23 legion / County	Built / Recon. / Paint / Ovly. 1934 / 1985 / 1986 / 2000 Material / Design	TSC Brighton(3) Last NBI Inspection	A Open, no restriction(A) Scour Evaluation
History of Work Impacting Load Rating: None Superstructure Component: 3 Steel Beam fy: 30.0 ksi Beam f'c / fb: Composite: No Number of Beams: 3 Shop Drawings Verified: No Beam Size(s) & Names (each span): Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	ating Considers Field Conditi			
Composite: No Number of Beams: 3 Shop Drawings Verified: No W36x230 rolled steel beams; 3 beams/span; 2 spans Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	listory of Work Impacting Load	•		
Composite: No Number of Beams: 3 Shop Drawings Verified: No Beam Size(s) & Names (each span): Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	unarstructura Component	3 Stool	Roam fur 300 kg	i Beam f'c / fb: ks
Beam Size(s) & Names (each span): Deck: Thickness (in.): 10.0 Fy / f'c: 33.0 / 3.0 ksi Deck Design Load > H15: Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	•		-	
Wearing Surface: Mat'l: latex conc Thickness (in.): 1.5 Unit Weight (pcf.): LEFT CENTER RIGHT	eam Size(s) & Names (each			vings verified.
LEFT CENTER RIGHT	eck: Thickness (in.):	10.0 Fy / f'c: 33.0	/ 3.0 ksi De d	ck Design Load > H15: Yes
	Vearing Surface: Mat'l:	latex conc Thi	ickness (in.): 1.5	Unit Weight (pcf.): 150.0
		LEFT	CENTER	RIGHT
Barrier: Type / Weight (plf.): Conc open para / 350.0 / Conc open para /	arrier: Type / Weight (plf.):	Conc open para / 350.0	/	Conc open para / 350.0
Sidewalk: Width / Thick (in.): / / /		/	/	
Clear Roadway (ft.): 16.0		16.0	•	
Additional Loads:		-		
42" dia. steel pipe (north side); (2) 24" dia. steel pipes; 252 plf total	dditional Loads:			

Analyzed By: DLZ Date: 10/30/2018

Modified by: TRANAP8100 on 02/21/2023 Printed on 02/21/2023 Page 1 of 1

STR 11078 LOAD RATING SUMMARY

Facility Latitude / Longitude MDOT Structure ID Structure Condition

TREATMENT PLANT DR 42.2703 / -83.6683 815021200000B01 Fair Condition(5)

Feature Length / Width / Spans Owner

HURON RIVER 117.1 / 18.4 / 2 City: ANN ARBOR(0212)

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.5 MI E US-231934 / 1985 / 1986 / 2000Brighton(3)A Open, no restriction(A)

Region / CountyMaterial / DesignLast NBI InspectionScour EvaluationUniversity(6) / Washtenaw(81)3 Steel / 02 Multi Str Non Comp10/19/2022 / A62W8 Stable Above Footing

Compliance Issue: None
Compliance Verified: No

Analysis Program: Merlin Dash

Analysis Program Version: 9.2

Rating Considers Field Condition of Members: Yes Inspection Date: 10/19/2022

Controlling component and failure mode:

Span 1, interior beam, positive flexure

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.0

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.24 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.2

NBI Item 41 - Structure Open Posted Closed

A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

 Analyzed By:
 DLZ
 Date:
 10/30/2018

 Checked By:
 DLZ
 Date:
 11/01/2018

STR 11078 REQUEST FOR ACTION			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)
Feature	Length / Width / Spans	Owner	
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing

No inspections available for bridge key 815021200000B01

STR 11078 OUTSTANDING WORK				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
TREATMENT PLANT DR	42.2703 / -83.6683	815021200000B01	Fair Condition(5)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	117.1 / 18.4 / 2	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E US-23	1934 / 1985 / 1986 / 2000	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 02 Multi Str Non Comp	10/19/2022 / A62W	8 Stable Above Footing	

WORK RECOMMI	ENDATIONS					
CHANNEL/SCOUR Request For Scour Repair	Contact/User	Agency/Company Name	Estimated Quantity	Unit		
Activity	Material	Other Material	Actual Quantity	Unit		
Personnel Hours	Equipment		Cor	nplete Date		
Comments Install scour countermeasures at the east abutment and the upstream end of Pier 1w. (Amy Trahey 07/22/2019)						
OTHER						

Actual Quantity

Other Material

Comments

Personnel Hours

Other **Activity**

Place signing for narrow bridge (Pedro Trana 11/28/2022)

Equipment

Material

Unit

Complete Date

STR 11076 BRIDGE SAFETY INSPECTION REPORT				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/09/2023 / HVYW	N Not Over Waterway	

NBI INSPECTION			HVYW
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/09/2023

GENERAL NOTES

Visual inspection completed without the use of MDOT reach-all and no Amtrak flagman. Preventive maintenance repairs performed in the Summer of 2021. Repairs included application of healer sealer to the deck surface, deck patching, and rail and sidewalk patching.

DECK				
	10/19	10/21	10/23	
1. Surface (SIA-58A)	7	7	7	Sealed longitudinal and some transverse cracks. No full depth cracking. Minor scaling and delaminations concentrated along the centerline of the bridge, the joints and the along the curb lines. Diagonal cracks at SE corner of deck. (10/23) Longitudinal and some transverse cracks. No full depth cracking. Minor scaling and delaminations concentrated along the centerline of the bridge, the joints and the along the curb lines. Diagonal cracks at SE corner of deck. (10/21) Longitudinal and some transverse cracks. No full depth cracking. Minor scaling and delaminations concentrated along the centerline of the bridge and the joints. Diagonal cracks at SE corner of deck. (10/19)
2. Expansion Joints	7	7	7	Debris is present at expansion joint locations. Minor vegetation at curb lines. No evidence of leaking below. (10/23) Debris is present at expansion joint locations. Minor vegetation at curb lines. No evidence of leaking below. (10/21) Debris is present at expansion joint locations. Minor vegetation at curb lines. No evidence of leaking below. (10/19)
3. Other Joints	5	5	5	Pourable joint at east end approach slab joint missing material in the westbound lanes and sunken in places. (10/23) Pourable joint at east end approach slab joint missing material and sunken in places. (10/21) Pourable joint at east end approach slab joint missing material and sunken in places with weeds growing at ends. (10/19)
4. Railings	6	7	7	Minor vertical hairline cracks. Rails have been patched and sealed. The black coating over handrail is chipped throughout the bridge. (10/23) Minor vertical hairline cracks. Rails have been patched and sealed. Few locations where black coating over handrail is chipped. (10/21) Minor hairline cracks with some leaching and rust staining. Numerous leaching vertical hairline cracks at handrail connection to barrier wall. Four delaminations on interior side of north railing. Bolts and nuts missing on south railing connecting handrail to barrier wall. Several bolts are not tightened flush with baseplate. Few locations where black coating over handrail is chipped. (10/19)
5. Sidewalks or Curbs	6	7	7	Some isolated cracks primarily at locations of previous patches in sidewalk. Minor longitudinal cracks. Newer patches from 2021 construction have map cracking. (10/23) Some isolated cracks primarily at locations of previous patches in sidewalk. Minor longitudinal cracks. New patches recently installed. (10/21) Some delaminations and cracks primarily at locations of previous patches in sidewalk. Leaching present in patched areas. Previous ponding areas still present. Some patches are raised above adjacent sidewalk areas. (10/19)
6. Deck Bottom Surface (SIA-58B)	7	7	7	Isolated longitudinal cracks present. Minor leaching thru the construction joint in Span 3. No spalls or concrete delaminations found. (10/23) Isolated longitudinal cracks present. Minor leaching thru the construction joint in Span 3. No spalls or concrete delaminations found. (10/21) Longitudinal cracks present. No leaching, efflorescence, spalls, concrete delaminations found. (10/19)

STR 11076	'			BRIDGE SAFETY INS	PECTION REPORT			
Facility	·		Latitu	ıde / Longitude	MDOT Structure ID	Structure Condition		
BROADWAY				76 / -83.7423	814021200192S01	Good Condition(7)		
Feature				th / Width / Spans	Owner	_		
DEPOT ST & MDO	T RR COR	₹	316.5	/ 73 / 4	City: ANN ARBOR(0212)			
Location			Built /	/ Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI E OF MAIN S	STREET		2004	/ / /	Brighton(3)	A Open, no restriction(A)		
Region / County			Mater	ial / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Was	shtenaw(8	1)	5 Pres	stressed Concrete / 05	10/09/2023 / HVYW	N Not Over Waterway		
			Box B	sm/Gird- Multiple				
7. Deck (SIA-58)	7	7	7	Sealed longitudinal and some transverse cracks. No full depth cracking. Minor scaling a concrete delaminations concentrated along the centerline of the bridge, the joints and the curb lines. Diagonal cracks at SE corner of deck. (10/23) Longitudinal and some transverse cracks. No full depth cracking. Minor scaling and condelaminations concentrated along the centerline of the bridge, the joints and the curb lind Diagonal cracks at SE corner of deck. (10/21) Longitudinal and some transverse cracks. No full depth cracking. Minor scaling and condelaminations concentrated along the centerline of the bridge and the joints. Diagonal cracks at SE corner of deck. (10/19)				
8. Drainage				The concrete parapet railing has regularly spaced scuppers at the top of the sidewalk. (10 The concrete parapet railing has regularly spaced scuppers at the top of the sidewalk. (10 The concrete parapet railing has regularly spaced scuppers at the top of the sidewalk. Previous ponding noted still present on sidewalks. (10/19)				
SUPERSTRUCTU	JRE							
	10/19	10/21	10/23					
9. Stringer (SIA-59)	7	7	7					
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)				
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)				
12. Bearings	8	8	8	Good condition with no bul	lging or scaling. In full conta	ct with bottom of beam. (10/23) ct with bottom of beam. (10/21) ct with bottom of beam. (10/19)		
SUBSTRUCTURI	E							
	10/19	10/21	10/23					
13. Abutments (SIA-60)	7	7	7	Staining below fascia bear west abutment, north side. Northwest and southwest wingwall has vines growing Hairline cracks at abutment concrete delaminations prenorth side. (10/21)	ns on both abutments. Mino No spalls or concrete delar wingwalls have isolated area g the full height and onto the att and wingwalls. Leaching esent. Minor cracking with runts and wingwalls. Leaching	Leaching present at east backwall. or cracking with rust stains present in minations present on abutments. as of map cracking. The northeast e approach sidewalk. (10/23) present at east backwall. No spalls or ust stains present in west abutment, present at east backwall. No spalls or		

STR 11076				BRIDGE SAFETY INS	SPECTION REPORT	
Facility			Latitu	ude / Longitude	MDOT Structure ID	Structure Condition
BROADWAY			42.28	376 / -83.7423	814021200192S01	Good Condition(7)
Feature			Length / Width / Spans		Owner	
DEPOT ST & MDOT R	R COR	2	316.5 / 73 / 4		City: ANN ARBOR(0212)	
Location			Built / Recon. / Paint / Ovly.		TSC	Operational Status
0.5 MI E OF MAIN STREET			2004 / / /		Brighton(3)	A Open, no restriction(A)
Region / County			Mate	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)				stressed Concrete / 05 Bm/Gird- Multiple		
14. Piers (SIA-60)	7	7	7	faces near ends. No spall to crashwall at railroad tradelaminations or spalls properties of the proper	is or concrete delaminations acks. Pier cap ends have minesent. (10/23) Il height in crashwalls. Map or resent. Small trees growing map cracking but no concretil height in crashwalls. No specific process.	cracking at crashwall ends and side present. Small trees growing adjacent nor map cracking but no concrete cracking at crashwall ends. No spalls o adjacent to crashwall at railroad tracks te delaminations or spalls present. palls or concrete delaminations present racks. Pier cap ends have minor mapent. (10/19)
15. Slope Protection	N	N	N	(10/23) (10/21) (10/19)		
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)		
17. Scour Inspection	N	N	N	(10/23) (10/21) (10/19)		
APPROACH						
	10/19	10/21	10/23			
18. Approach Pavement	7	6	6	Transverse cracks along Missing a portion of joint (10/21)	sleeper slab at west end. (10 filler in east approach slab. S	Spalls at joints between sections. 1/23) Spalls at joints between sections. Spalls at joints between sections.
19. Approach Shoulders Sidewalks	6	6	6	SW quadrants. NE quadr Minor vegetation betweer SW quadrants. NE quadr Minor vegetation betweer	rant sidewalk approach has b n sidewalk and back of railing rant has 3/4" vertical elevatio	 Diagonal cracking present in SE and in difference at end of bridge. (10/21) Minor cracking present. NE quadran
20. Approach Slopes				(10/23) (10/21) (10/19)		
21. Utilities				(10/23) (10/21) Street light poles on top o	of interior bridge railings. (10/	19)
22. Drainage Culverts				(10/23) (10/21) (10/19)		
MISCELLANEOUS						
Guard Rail					Other Items	
Item			Ratir		Item	Rating
				<u> </u>		
36A. Bridge Railings			0		71. Water Adequacy	N

0

Ν

Ν

36B. Transitions

36C. Approach Guardrail

36D. Approach Guardrail Ends

72. Approach Alignment

Temporary Support

High Load Hit (M)

0 No Temporary Supports

No

STR 11076				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/09/2023 / HVYW	N Not Over Waterway	

Special Insp. Equipment Underwater Insp. Method

0

N/A - No False Decking

False Decking (Timber) Removed to Complete Inspection

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical

92B. Underwater

92C. Other Special92D. Fatigue Sensitive

STR 11076 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Facility** Latitude / Longitude **Structure Condition BROADWAY** 42.2876 / -83.7423 814021200192S01 Good Condition(7) **Feature** Length / Width / Spans Owner **DEPOT ST & MDOT RR COR** 316.5 / 73 / 4 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN STREET 2004 / A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/09/2023 / HVYW N Not Over Waterway Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type <u>5</u> 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 0 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 00000 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 0 10L - Best 3m Unclr-Lt 0 0 77 - Steel Type 10R - Best 3m Unclr-Rt 0 10R - Best 3m Unclr-Rt 99 99 19 3 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 7 Control Section Control Section 80 - Post Type 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 0 1 1 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000014308 01 0000014308 04 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 1 1 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 3 26 - Functional Class 26 - Functional Class 14 19 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 28 29 - ADT 20630 29 - ADT 8715 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 2004 45 - Num Main Spans 4 32 - Appr Roadway Width 42B - Service Type Under 49.2 4 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 49.21 47L - Left Horizontal Clear 0 6 48 - Max Span Length 77.5 42A - Service Type On 47R - Right Horizontal Clear 26.21 1 49 - Structure Length 316.5 47L - Left Horizontal Clear 0.0 54A - Left Feature <u>H</u> 50A - Width Left Curb/SW 10 0 47R - Right Horizontal Clear 49.2 54B - Left Underclearance 24 50B - Width Right Curb/SW 10 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 <u>H</u> 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 18 12 51 - Width Curb to Curb 49.2 102 - Traffic Direct Under Clearance Year 2004 2 52 - Width Out to Out 73 109 - Truck % 55A - Reference Feature Н 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 21773 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/09/2023 2035 0 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 2 92A - Frac Crit Reg/Freg Ν 109 - Truck % 2 Structure Appraisal 110 - Truck Network 0 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 114 - Future ADT 10634 36B - Rail Transition 0 93B - Und Water Insp Date 115 - Year Future ADT 2021 36C - Approach Rail Ν 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination Ν 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 7 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 2 l 1 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 3 0 176A - Und Water Insp Method 0 71 - Waterway Adequacy Ν 94 - Bridge Cost 8 58 - Deck Rating 72 - Approach Alignment 95 - Roadway Cost 0 8 58A/B - Deck Surface/Bottom 17 103 - Temporary Structure 96 - Total Cost 8 59 - Superstructure Rating 7 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2017 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating Ν 37 - Historical Significance 31 - Design Load 5 9 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 2.34 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 38 - Navigation Control Ν **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.37 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load 1.4 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11076	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)		
Feature	Length / Width / Spans	Owner			
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/09/2023 / HVYW	N Not Over Waterway		

NBI INSP	ECTION						HVYW
Inspector	Name	Agency / Company Nan	ne	Insp.	Freq.	Insp. Date	
Kyle Slavik	(DLZ Michigan	2	24		10/09/2023	
AASHTO	ELEMENTS					(Engl	ish Units)
Element Element Number Name		Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4
Decks/Sla	bs						
803	Conc Deck - Coated Bars	23010	sq.ft	23010 100%	0 0%	0 0%	0 0%
815	Rigid Overlay	15572	sq.ft	14792 95%	780 5%	0 0%	0 0%
811	Conc Deck - Btm Surface	23010	sq.ft	22780 99%	230 1%	0 0%	0 0%
812	Reinf Conc Fascia	633	ft	633 100%	0 0%	0 0%	0 0%
Joints							
300	Strip Seal Exp Joint	332	ft	249 75%	83 25%	0 0%	0 0%
301	Pourable Joint Seal	332	ft	134 40%	119 36%	79 24%	0 0%
Superstru	cture						
823	P/S Concrete Box Beams	2804	ft	2692 96%	112 4%	0 0%	0 0%
826	Beam End Deterioration	72	(EA)	18 25%	54 75%	0 0%	0 0%
Bearings							
310	Elastomeric Bearing	72	each	72 100%	0 0%	0 0%	0 0%
Substruct	ure						
205	Re Conc Column	15	each	15 100%	0 0%	0 0%	0 0%
210	Re Conc Pier Wall	249	ft	244 98%	5 2%	0 0%	0
215	Re Conc Abutment	322	ft	307 95%	15 5%	0 0%	0 0%
234	Re Conc Pier Cap	256	ft	254 99%	2 1%	0	0
Modified by	r: SLAVIKK1992 on 10/25/202	Printed o	n 11/07/2023				age 1 of 2

STR 11076 SAFETY INSPECTION REPORT - AASHTO ELEMENTS							
Location	Γ & MDOT RR COR	Latitude / Longitude 42.2876 / -83.7423 Length / Width / Spans 316.5 / 73 / 4 Built / Recon. / Paint / Ovly.	MDOT Structure ID 814021200192S01 Owner City: ANN ARBOR(0212) TSC		Operational Status		*
0.5 MI E OF MAIN STREET Region / County University(6) / Washtenaw(81)		2004 / / / Material / Design 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	Brighton(3) Last NBI Inspection 10/09/2023 / HVYW		A Open, no restriction(A) Scour Evaluation N Not Over Waterway		
Other Eler	ments						
321	Re Conc Approach Sla	ab 3170	sq.ft	3130 99%	40 1%	0 0%	0 0%
330	Metal Bridge Railing	633	ft	629 99%	4 1%	0 0%	0
515	Steel Protective Coatin	ng 2000	sq.ft	1800 90%	200 10%	0 0%	0 0%
331	Re Conc Bridge Railin	g 633	ft	628 99%	5 1%	0 0%	0
840	Reinf Conc Sidewalk	7539	sq.ft	7389 98%	150 2%	0 0%	0

STR 11076	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/09/2023 / HVYW	N Not Over Waterway

WORK RECOMMENDATIONS HVY						
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date			
Kyle Slavik	DLZ Michigan	24	10/09/2023			
RECOMMENDATIONS & ACTION ITEMS						
Recommendation Type	Priority	Description				

ecommendation Type	Priority	Description
Bridge Washing	M	Clean expansion joints.
Super Repair	L	Patch concrete beam ends.

STR 11076	LOAD RAT	ING ASSUMPTIONS	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)
eature	Length / Width / Spans	Owner	
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ov		Operational Status
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / Box Bm/Gird- Multiple	05 10/09/2023 / HVYW	N Not Over Waterway
Rating Considers Field Condition Deterioration:	on of Members: Yes	Inspection Date: 10	0/16/2019
No impact			
Most Recent Year Construct / R	econstruct / Overlay: 200)4	
History of Work Impacting Load None	I Rating:		
Superstructure Component:	5 Prestressed Concrete	Beam fy: k	ssi Beam f'c / fb: 6.0 ks
Composite:	Yes Number of B	eams: 9 Shop Dra	wings Verified: No
Beam Size(s) & Names (each span):	39" H x 48" W spread box bea	ams. Span 1: 79'-6"; Span 2: 78'-	9"; Span 3: 78'-9"; Span 4: 79'-6".
Deck: Thickness (in.):	9.0 Fy / f'c :	60.0 / 4.0 ksi D e	eck Design Load > H15: Yes
Wearing Surface: Mat'l:	Silica Fume Overlay	Thickness (in.): 1.5	Unit Weight (pcf.): 150.0
	LEFT	CENTER	RIGHT
		~ — · · · · · ·	
Sarrier: Type / Weight (nif \		/	Steel ned rail / 0.1
	Steel ped rail / 0.1	/	Steel ped rail / 0.1
Sidewalk: Width / Thick (in.):		/ /	Steel ped rail / 0.1 143.0 / 6.25
Sidewalk: Width / Thick (in.):	Steel ped rail / 0.1	/ /	•
Barrier: Type / Weight (plf.): Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.):	Steel ped rail / 0.1 143.0 / 6.25 49.3	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25 49.3	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25 49.3	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25 49.3	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25 49.3	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: Diaphragms: third points 2.160k.	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side		•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side	/ /	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: Diaphragms: third points 2.160k.	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side		•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: Diaphragms: third points 2.160k.	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side		•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: Diaphragms: third points 2.160k.	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side		•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: Diaphragms: third points 2.160k.	Steel ped rail / 0.1 143.0 / 6.25 49.3 Inner rails: 325 plf, each side		•

Analyzed By: Carrie Hamel Date: 10/17/2019

STR 11076 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionBROADWAY42.2876 / -83.7423814021200192S01Good Condition(7)

Feature Length / Width / Spans Owner

DEPOT ST & MDOT RR COR 316.5 / 73 / 4 City: ANN ARBOR(0212)

Location Built / Recon. / Paint / Ovly. TSC Operational Status

0.5 MI E OF MAIN STREET2004 / / Brighton(3)A Open, no restriction(A)Region / CountyMaterial / DesignLast NBI InspectionScour Evaluation

University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/09/2023 / HVYW N Not Over Waterway Box Bm/Gird- Multiple

Compliance Issue:NoneCompliance Verified:NoAnalysis Program:ConSpanAnalysis Program Version:08.01.00.10

Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019

Controlling component and failure mode:

Span 2, interior, shear, Truck 17

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.34

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.37 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.4

NBI Item 41 - Structure Open Posted Closed

A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

Analyzed By: Carrie Hamel Date: 10/17/2019
Checked By: Mark Lessens Date: 10/21/2019

STR 11076	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
BROADWAY	42.2876 / -83.7423	814021200192S01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
DEPOT ST & MDOT RR COR	316.5 / 73 / 4	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI E OF MAIN STREET	2004 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/09/2023 / HVYW	N Not Over Waterway

No inspections available for bridge key 814021200192S01

STR 11076 OUTSTANDING WORK Structure Condition MDOT Structure ID Facility Latitude / Longitude **BROADWAY** 814021200192S01 Good Condition(7) 42.2876 / -83.7423 **Feature** Length / Width / Spans Owner **DEPOT ST & MDOT RR COR** 316.5 / 73 / 4 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI E OF MAIN STREET 2004 / Brighton(3) A Open, no restriction(A) / Material / Design Region / County **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/09/2023 / HVYW N Not Over Waterway Box Bm/Gird- Multiple

WORK RECOMMENDATIONS

SUPERSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Super Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Patch concrete beam ends. (Kyle Slavik 10/26/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Bridge Washing

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Clean expansion joints. (Kyle Slavik 10/26/2023)

STR 11077 BRIDGE SAFETY INSPECTION REPORT					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
EISENHOWER PKWY	42.2442 / -83.732	814021200393R01	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
ANN ARBOR RAILROAD	132.4 / 78.4 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.4 MI E OF STATE RD	1974 / / / 2005	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway		

NBI INSPECTION			VVH4
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/10/2023

GENERAL NOTES

Visual inspection without MDOT reach-all and no railroad flagging. Ann Arbor Temporary Agreement Covering Right-of-Entry and railroad flagging required for detailed inspection.

DECK				
	10/19	10/21	10/23	
1. Surface (SIA-58A)	6	7	7	Some hairline transverse cracks. Light scaling along longitudinal construction joint. Some rough patches in the wearing course along the south bike lane and gutter pan. There are isolated popouts in the surface. Flow line @ curb is not smooth - some depressions present. (10/23) Some hairline transverse cracks. Light scaling along longitudinal construction joint. Some rough patches in the wearing course along the south bike lane and gutter pan. There are isolated popouts in the surface. Flow line @ curb is not smooth - some depressions present. (10/21) Some hairline transverse and longitudinal cracks. Some rough patches in the wearing course along the south bike lane and gutter pan. Wearing in concrete texturing at wheel lines. Large popouts and spalls along approach slab joints patched with HMA; transverse hairline cracks. Flow line @ curb is not smooth - some depressions present. Minor spalls at Pier 2 joint -center of bridge. (10/19)
2. Expansion Joints	6	6	5	Dirt in joint seals. Both expansion joints have corrosion in the shoulders and in the center turn lane. (10/23) Dirt in joint seals. (10/21) Dirt in joint seals. (10/19)
3. Other Joints	6	6	6	Joint filler is missing at sleeper slab joint at west end in the center turn lane. Also missing at sleeper slab joint at east end in the southernmost lane. Minor deterioration along approach slab joints. Some loose and missing filler material. (10/23) Joint filler is missing at sleeper slab joint at west end. Minor deterioration along approach slab joints. Some loose and missing filler material. (10/21) Joint filler is missing at sleeper slab joint at west end. Large concrete spalls at joint locations filled with HMA. Vegetation in joint at curb line in NW, NE and SW quadrants. Some loose and missing filler material. (10/19)
4. Railings	7	7	7	Patches at expansion joint locations have cracks. Few cracks and rust stains on both railings. Missing nut on north steel railing at west pier. (10/23) Patches at expansion joint locations. Few cracks and rust stains. Missing nut on north steel railing at west pier. (10/21) Patches at expansion joint locations. Few cracks and rust stains. Missing nut on north steel railing at west pier. (10/19)
5. Sidewalks or Curbs	7	7	7	Few transverse cracks. Delamination and spalls noted. Patches at south and north expansion joint areas have started to spall in the curb face. (10/23) Few transverse cracks. Delamination and spalls noted. Patches at south and north expansion joint areas. (10/21) Few transverse cracks. Delamination and spalls noted. Patches at south and north expansion joint areas. (10/19)

STR 11077				BRIDGE SAFETY INS	PECTION REPORT	
Facility			Latitu	ude / Longitude	MDOT Structure ID	Structure Condition
EISENHOWER P	KWY		42.24	142 / -83.732	814021200393R01	Fair Condition(6)
Feature			Length / Width / Spans		Owner	
ANN ARBOR RAI	ANN ARBOR RAILROAD			1 / 78.4 / 3	City: ANN ARBOR(0212)
Location			Built / Recon. / Paint / Ovly.		TSC Operational Status	
0.4 MI E OF STATE RD			1974	/ / / 2005	Brighton(3)	A Open, no restriction(A)
Region / County	Region / County			rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)				Prestressed Concrete / 32 10/10/2023 / VVH4 N Not Over Waterway Iti Str Comp		
6. Deck Bottom Surface (SIA-58B)	6	6	6	Transverse cracks with efflorescence. Several full depth concrete patches with some delaminated concrete and rust stains. Longitudinal construction joints have been sealed. (10/23) Transverse cracks with efflorescence. Several full depth concrete patches with some delaminated concrete and rust stains. Longitudinal construction joints have been sealed. (10/21) Hairline cracks with efflorescence. Several full depth concrete patches with some delaminated concrete and rust stains. (10/19)		
7. Deck (SIA-58)	6	6	6	Some rough patches in the wearing course along the south bike lane and gutter pan. Wearing in concrete texturing at wheel lines. Isolated popouts in surface and transverse cracks with efflorescence in the bottom. Full depth patches present with rust stains in the bottom. (10/23) Some rough patches in the wearing course along the south bike lane and gutter pan. Wearing in concrete texturing at wheel lines. Isolated popouts in surface and transverse cracks with efflorescence in the bottom. Full depth patches present with rust stains in the bottom. (10/21) Some rough patches in the wearing course along the south bike lane and gutter pan. Wearing in concrete texturing at wheel lines. Large popouts and spalls concentrated along the joints and transverse hairline cracks. (10/19)		
8. Drainage				Catch basins in northeast a Catch basins in northeast a Catch basins in northeast a	and southeast quadrants.	(10/21)
SUPERSTRUC	TURE					
	10/19	10/21	10/23			
9. Stringer (SIA-59)	6	6	6	beams have diagonal crac reinforcement. Some bean have been patched and ru at Pier 1. (10/23) Majority of concrete I-bean beams have diagonal crac reinforcement. Some bean have been patched and ru at Pier 1. (10/21) Majority of concrete I-bean beams have diagonal crac	king and spalled areas at to ends have impending spat stains are present. Plywons have vertical and horized king and spalled areas at to ends have impending spat stains are present. Plywons have vertical and horized king and spalled areas at to ends have been patched	ontal cracking at beam ends. Some the beam ends with exposed mild alls with cracking. Some beam ends cood is located between Beams C and D ontal cracking at beam ends. Some the beam ends with exposed mild alls with cracking. Some beam ends cood is located between Beams C and D ontal cracking at beam ends. Some the beam ends with exposed mild and rust stains are present. Plywood is
10. Paint (SIA-59A)	N	N	N	(10/23) (10/21) (10/19)		
11. Section Loss	N	N	N	(10/23) (10/21) (10/19)		
12. Bearings	5	5	5	appear to be overstressed piers. (10/23) Several elastomeric bearir appear to be overstressed piers. (10/21) Several elastomeric bearir	. Rust is present at all bearing pads are bulging, curling. Rust is present at all bearing pads are bulging, curling	g and have uplifted along edges, and am sole plates and bearing plates on g and have uplifted along edges, and am sole plates and bearing plates on g and have uplifted along edges, and am sole plates and bearing plates on

SUBSTRUCTURE

10/19 10/21 10/23

STR 11077				BRIDGE SAFETY INS	PECTION REPORT	
Facility			Latitu	ude / Longitude	MDOT Structure ID	Structure Condition
			42.24	142 / -83.732	814021200393R01	Fair Condition(6)
			Leng	th / Width / Spans	Owner	
ANN ARBOR RAILF	ROAD		132.4	1 / 78.4 / 3	City: ANN ARBOR(0212)	
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
0.4 MI E OF STATE	RD		1974	/ / / 2005	Brighton(3)	A Open, no restriction(A)
Region / County			Mate	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Was	shtenaw(8	1)		stressed Concrete / 32 Str Comp	10/10/2023 / VVH4	N Not Over Waterway
13. Abutments (SIA-60)	6	7	7	covered. The joint materia is passing through. There Few hairline vertical crack material in the east abutm through. (10/21)	al in the east abutment cons are signs of water leaking t is. No spalls or delamination tent construction joint is mis	alls or delaminations found. Graffiti struction joint is missing and approach fill hrough the joint also. (10/23) as found. Graffiti covered. The joint sing and approach fill is passing as found. Graffiti covered. (10/19)
14. Piers (SIA-60)	6	6	6	and crashwalls. There are both crashwalls. The east (10/23) Minor spalls, cracks and c and crashwalls. There are	e delaminated patches in a f pier has staining below Bea delaminated concrete with e delaminated patches in a f	exposed reinforcement on pier columns few pier columns. Debris is present along am D but the stain is not changing. Exposed reinforcement on pier columns few pier columns. (10/21) Exposed reinforcement on pier columns
15. Slope Protection	6	6	6	and heaving in horizontal and voids below remaining of the croshwall and the hislope paving. (10/23) Some growth of vegetation horizontal portion of slope the east slope paving. (10 Some growth of vegetations)	portion of slope paving at b g bricks. The slopes along t eader is visible. There is sen and trees found through the paving at both abutments. /21) n and trees found through the paving at both abutments.	he paving near the sides. Settlement oth abutments resulting in missing bricks he west slope paving has eroded in fron titlement at the north end of the east he paving. Settlement and heaving in There is settlement at the north end of he paving. Settlement and heaving in East abutment near abutment has void
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)		
17. Scour Inspection	N	N	N	(10/23) (10/21) (10/19)		
APPROACH						
	10/19	10/21	10/23			
18. Approach Pavement	6	7	6	Concrete approach slabs asphalt or sealed. Asphalt sleeper slab and in the ea Concrete approach slabs asphalt or sealed. (10/21) Concrete approach slabs along the longitudinal paycracks sealed. Large and	t filled pothles have started stbound shoulder at the easin good condition. Potholes in good condition. HMA paement joint and wheel lines	at approach ends have been filled with vement has minor cracking concentrated. Map cracking throughout with most concrete deck, filled with HMA, three at
19. Approach Shoulders Sidewalks	9	6	6	Settlement of 3/4" in approving all of the settlement of 3/4" in approving all of the settlement in the settlement in approach sit southwest quadrant. Cract of curb. (10/21) HMA sidewalk in SW and approach sidewalk and brit obridge have no deficien	oach sidewalks in all 4 quad the southwest quadrant. Cr ng back of curb. (10/23) dewalks in all 4 quadrants of king is noted at all four quad SE quadrants have longitud idge sidewalk in NE quad.	drants of the bridge. Multiple large cracks acking is noted at all four quadrants. of the bridge. Large crack in the drants. Vegetation is growing along backdinal cracks. 1- 1/4" differential between Concrete portions of sidewalk adjacent concrete sidewalks have minor cracks.
20. Approach Slopes				All approach guardrails be All approach guardrails be	eyond bridge anchorages are eyond bridge anchorages are eyond bridge anchorages ar	re newer. (10/23) re newer. (10/21)
Modified by: SLAV/IK	K1002 on	10/26	2022	Printed on 1		Page 3 of 4

MICHIGAN DEPARTMENT OF TRANSPORTATION					
STR 11077	BRIDGE SAFETY IN	ISPECTION REPORT			
Facility EISENHOWER PKWY Feature ANN ARBOR RAILROAD Location 0.4 MI E OF STATE RD Region / County	Latitude / Longitude 42.2442 / -83.732 Length / Width / Spans 132.4 / 78.4 / 3 Built / Recon. / Paint / Ovly. 1974 / / /2005 Material / Design	MDOT Structure ID 814021200393R01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway		
21. Utilities 22. Drainage Culverts	Overhead utility lines present over and under the western span. Sixth bay has formwork with styrofoam where a 16" watermain is present. Some of the insulation has been removed/damaged near the west abutment. Watermain pipe is heavily corroded where visible through the insulation. 3" dia. conduit along outside of north concrete bridge railing. (10/23) Overhead utility lines present over and under the western span. Sixth bay has formwork with styrofoam where a 16" watermain is present. 3" dia. conduit along outside of north concrete bridge railing. Some of the insulation has been removed/damaged near the west abutment. (10/21) Overhead utility lines present over and under the western span. Sixth bay has formwork with styrofoam where a 16" watermain is present. 3" dia. conduit along outside of north concrete bridge railing. Some of the insulation has been removed/damaged near the west abutment. (10/19) (10/23) (10/21) (10/19)				
MISCELLANEOUS					
Item 36A. Bridge Railings 36B. Transitions	Rating 1 N 1	Other Items Item 71. Water Adequacy 72. Approach Alignment	Rating N 8		
36C. Approach Guardrail 36D. Approach Guardrail Ends	1 1	Temporary Support High Load Hit (M) Special Insp. Equipment Underwater Insp. Method	0 No Temporary SupportsNo		
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking			
Critical Feature Inspections (S	SIA-92)				

Modified by: SLAVIKK1992 on 10/26/2023

92A. Fracture Critical 92B. Underwater 92C. Other Special 92D. Fatigue Sensitive Freq

Date

STR 11077 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Structure Condition Facility** Latitude / Longitude **EISENHOWER PKWY** 42.2442 / -83.732 814021200393R01 Fair Condition(6) **Feature** Length / Width / Spans Owner ANN ARBOR RAILROAD 132.4 / 78.4 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.4 MI E OF STATE RD 1974 / / 2005 A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 5 Prestressed Concrete / 32 10/10/2023 / VVH4 N Not Over Waterway Multi Str Comp **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 2005 5D - Route Number 00000 5D - Route Number 32 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 0 10L - Best 3m Unclr-Lt 77 - Steel Type 10R - Best 3m Unclr-Rt 0 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 7 Control Section Control Section 80 - Post Type 11 - Mile Point 0 11 - Mile Point 12 - Base Highway Network 107 - Deck Type 12 - Base Highway Network 1 1 13 - LRS Route-Subroute 13 - LRS Route-Subroute 108A - Wearing Surface 0000046000 68 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 4 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 0 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 29 - ADT 20888 29 - ADT 35 - Struct Flared N 30 - Year of ADT 2010 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 42B - Service Type Under 2 56.1 46 - Num Apprs Spans n 32A/B - Ap Pvt Type/Width 56 47L - Left Horizontal Clear 48 - Max Span Length 45.9 42A - Service Type On 47R - Right Horizontal Clear 49 - Structure Length 132.4 47L - Left Horizontal Clear 27.9 54A - Left Feature 50A - Width Left Curb/SW 6 99 47R - Right Horizontal Clear 27.9 54B - Left Underclearance 99 50B - Width Right Curb/SW 6 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 64 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 78.4 109 - Truck % 5 55A - Reference Feature R 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 19.4 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 20888 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/10/2023 2030 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 1 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition Ν 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 38 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 7 433.1 176A - Und Water Insp Method 0 71 - Waterway Adequacy Ν 94 - Bridge Cost 664 58 - Deck Rating 6 72 - Approach Alignment 95 - Roadway Cost 8 0 58A/B - Deck Surface/Bottom 6 103 - Temporary Structure 96 - Total Cost 664 59 - Superstructure Rating 6 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2016 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 6 61 - Channel Rating 37 - Historical Significance 31 - Design Load Ν 5 5 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load 2 Ν 38 - Navigation Control Ν **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.6 40 - Horizontal Clearance 0 64MC - Mich Oper Truck 143 - Pin & Hanger Code 18 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.2 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11077	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
EISENHOWER PKWY	42.2442 / -83.732	814021200393R01	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
ANN ARBOR RAILROAD	132.4 / 78.4 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.4 MI E OF STATE RD	1974 / / / 2005	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway		

NBI INSP	ECTION						VVH4
		ncy / Company Nam	ie	Insp.	Freq.	Insp. D	ate
		Michigan	24		10/10/2023		
AASHTO	ELEMENTS					(Engl	ish Units)
Element Number	Element Name	Total Quantity	Unit	Good CS1	Fair CS2	Poor CS3	Severe CS4
Decks/Sla	bs						
800	Conc Deck - Black Bars	10330	sq.ft	10227 99%	103 1%	0 0%	0 0%
815	Rigid Overlay	8412	sq.ft	8328 99%	84 1%	0 0%	0 0%
811	Conc Deck - Btm Surface	10330	sq.ft	9297 90%	1033 10%	0 0%	0 0%
812	Reinf Conc Fascia	265	ft	262 99%	3 1%	0 0%	0 0%
Joints							
301	Pourable Joint Seal	312	ft	234 75%	78 25%	0 0%	0 0%
303	Assembly Joint With Seal	160	ft	0	160 100%	0 0%	0
Superstru	cture						
109	Pre Opn Conc Girder/Beam	1567	ft	1471 94%	96 6%	0 0%	0 0%
826	Beam End Deterioration	48	(EA)	0	48 100%	0	0
Bearings							
310	Elastomeric Bearing	48	each	0 0%	0 0%	48 100%	0 0%
316	Other Bearing	24	each	24 100%	0 0%	0 0%	0 0%
Substruct	ure						
205	Re Conc Column	16	each	7 44%	2 12%	7 44%	0 0%
210	Re Conc Pier Wall	148	ft	128 86%	20 14%	0 0%	0
215	Re Conc Abutment	207	ft	207 100%	0	0	0
Modified by	r: SLAVIKK1992 on 10/26/2023	Printed o	n 11/16/2023				age 1 of 2

STR 11	077	SAFETY INSPECTION REP	EPORT - AASHTO ELEMENTS				
Facility		Latitude / Longitude	MDOT Structure ID		Structure C	Structure Condition	
EISENH	OWER PKWY	42.2442 / -83.732	8140212	00393R01	Fair Condition	n(6)	
Feature		Length / Width / Spans	Owner				
ANN AR	BOR RAILROAD	132.4 / 78.4 / 3	City: ANI	N ARBOR(0212	2)		
Location	n	Built / Recon. / Paint / Ovly.	TSC		Operational	Status	
0.4 MI E	OF STATE RD	1974 / / / 2005	Brighton(3)		A Open, no restriction(A)		
Region	/ County	Material / Design	Last NB	I Inspection	Scour Evalu	ıation	
Universit	ty(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/20	23 / VVH4	N Not Over \	Vaterway	
234	Re Conc Pier Cap	159	ft	154	5	0	0
				97%	3%	0%	0%
Other El	lements						
330	Metal Bridge Railing	265	ft	265	0	0	0
				100%	0%	0%	0%
331	Re Conc Bridge Raili	ng 265	ft	239	26	0	0
				90%	10%	0%	0%
840	Reinf Conc Sidewalk	1909	sq.ft	1661	248	0	0
				87%	13%	0%	0%

STR 11077	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
EISENHOWER PKWY	42.2442 / -83.732	814021200393R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
ANN ARBOR RAILROAD	132.4 / 78.4 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.4 MI E OF STATE RD	1974 / / / 2005	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway

WORK RECOMMENDATIONS			
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/10/2023

RECOMMENDATIONS & ACTION ITEMS					
Recommendation Type	Priority	Description			
Slope Repair	M	Repair slope paving at abutment			
Joint Repair	M	Repair joint in east abutment.			
Deck Patching	L	Patch spalled areas at ends of deck and at sleeper slab/approach slabs with concrete.			
Super Repair	M	Repair beam ends at piers - continue to monitor.			
Substr Repair	M	Repair deteriorated areas on piers.			
Other	M	Replace bearing pads at piers.			

STR 11077	LOAD RATING		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
EISENHOWER PKWY	42.2442 / -83.732	814021200393R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
ANN ARBOR RAILROAD	132.4 / 78.4 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.4 MI E OF STATE RD	1974 / / / 2005	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway

Rating Considers Field Condition of Members: Yes Inspection Date: 10/18/2019

Deterioration:

Concrete beam ends at piers have spalled, delaminated and cracked concrete. Exposed reinforcing steel is also present on some beams.

Most Recent Year Construct / Reconstruct / Overlay: 2005

History of Work Impacting Load Rating:

Raised concrete median curbs were removed and replaced with full depth concrete and the two separate decks connected in 2005. 14' along each outside curb received a shallow concrete overlay. The center 36' received a deep concrete overlay, with the center 11'-6" of deck removed and replaced full-depth.

Superstructure Component: 5 Prestressed Concrete Beam fy: ksi Beam f'c / fb: 5.0 ksi

Composite: Yes Number of Beams: 12 Shop Drawings Verified: No

Beam Size(s) & Names (each span):

Type II (36") AASHTO I beams. 12 per span. 3 spans: Center-to-Center bearing lengths: West Span: 44'-6"; Center Span: 41'-9 1/4"; East Span: 41'-10".

Deck: Thickness (in.): 10.3 Fy / f'c: / 3.5 ksi Deck Design Load > H15: Yes

Wearing Surface: Mat'l: Microsilica conc Thickness (in.): 3.0 Unit Weight (pcf.): 150.0

LEFT CENTER RIGHT

Barrier: Type / Weight (plf.): conc/steel / 357.0 / conc/steel / 357.0

Sidewalk: Width / Thick (in.): 86.5 / 10.75 / 86.5 / 10.75

Clear Roadway (ft.): 64.0

Additional Loads:

Loads on Precast: Diaphragm loads: 0.65 kips on beams 1, 6, 7 and 12 at midspan of all spans; 1.3 kips on beams 2-5 and 8-11 at midspan of all spans. 16" dia water main, 28" dia casing, insulation and boards: 0.21 klf on beams 6 and 7. Average deck thickness of 10.27 inches due to thickened portion at center of deck.

Unique Factors That Affect Capacity:

Shear rating factors were determined using the 1979 Interim Specifications in the AASHTOWare BrR program. Shear is only analyzed between the quarter points using user-defined points of interest. Each span was analyzed/modeled independently (three (3) single spans). The spans are all simple spans, with expansion joints at both piers.

Analyzed By: Carrie Hamel Date: 07/16/2018

Modified by: LESSENSM4950 on 12/10/2019 Printed on 11/16/2023 Page 1 of 1

STR 11077 LOAD RATING SUMMARY **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** 814021200393R01 **EISENHOWER PKWY** 42.2442 / -83.732 Fair Condition(6) **Feature** Length / Width / Spans Owner ANN ARBOR RAILROAD 132.4 / 78.4 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.4 MI E OF STATE RD / 2005 A Open, no restriction(A) 1974 / / Brighton(3) Region / County **Last NBI Inspection Scour Evaluation** Material / Design University(6) / Washtenaw(81) 5 Prestressed Concrete / 32 10/10/2023 / VVH4 N Not Over Waterway Multi Str Comp

Compliance Issue: None
Compliance Verified: No

Analysis Program: AASHTOWare Bridge Rating (BrR)

Analysis Program Version: 6.8.2.3002

Rating Considers Field Condition of Members: Yes Inspection Date: 10/18/2019

Controlling component and failure mode:

Shear in Beam 2, Span 1, 30%, near Abut A.

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.0

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.6 MDOT Item 64MC - Michigan Operating Truck 18

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.2

NBI Item 41 - Structure Open Posted Closed

A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

Analyzed By: Carrie Hamel Date: 07/16/2018
Checked By: Mark Lessens Date: 07/25/2018

STR 11077	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
EISENHOWER PKWY	42.2442 / -83.732	814021200393R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
ANN ARBOR RAILROAD	132.4 / 78.4 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.4 MI E OF STATE RD	1974 / / / 2005	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Waterway

No inspections available for bridge key 814021200393R01

STR 11077 OUTSTANDING WORK MDOT Structure ID Facility Latitude / Longitude **Structure Condition** 814021200393R01 **EISENHOWER PKWY** 42.2442 / -83.732 Fair Condition(6) **Feature** Length / Width / Spans Owner ANN ARBOR RAILROAD 132.4 / 78.4 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.4 MI E OF STATE RD / 2005 1974 / / Brighton(3) A Open, no restriction(A) Region / County **Last NBI Inspection Scour Evaluation** Material / Design University(6) / Washtenaw(81) 5 Prestressed Concrete / 32 10/10/2023 / VVH4 N Not Over Waterway Multi Str Comp

WORK RECOMMENDATIONS

DECKS/SLABS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Deck Patching

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Patch spalled areas at ends of deck and at sleeper slab/approach slabs with concrete. (Kyle Slavik 11/16/2023)

JOINTS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Joint Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Repair joint in east abutment. (Kyle Slavik 11/16/2023)

SUPERSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Super Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Repair beam ends at piers - continue to monitor. (Kyle Slavik 11/16/2023)

SUBSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Substr Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Repair deteriorated areas on piers. (Kyle Slavik 11/16/2023)

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Slope Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

STR 11077		OUTSTAND	ING WORK		
Facility	,	Latitude / Longitude	MDOT Structure ID	Structure Condit	ion 啦
EISENHOWER PKV	VY	42.2442 / -83.732	814021200393R01	Fair Condition(6)	
Feature		Length / Width / Spans	Owner		
ANN ARBOR RAILF	ROAD	132.4 / 78.4 / 3	City: ANN ARBOR(021)	2)	
Location		Built / Recon. / Paint / Ovly.	TSC	Operational State	us
0.4 MI E OF STATE	RD	1974 / / / 2005	Brighton(3)	A Open, no restric	ction(A)
Region / County		Material / Design	Last NBI Inspection	Scour Evaluation	1
University(6) / Was	shtenaw(81)	5 Prestressed Concrete / 32 Multi Str Comp	10/10/2023 / VVH4	N Not Over Water	way
Comments					,
Repair slope paving	at abutment (Kyl	le Slavik 11/16/2023)			
Request For Other	Contact/Use	r Agency/Company Nar	me Est	imated Quantity	Unit
Activity	Material	Other Material	Act	tual Quantity	Unit
Personnel Hours	Equipment			Co	omplete Date
Comments					

Replace bearing pads at piers. (Kyle Slavik 11/16/2023)

STR 11065 BRIDGE SAFETY INSPECTION REPORT						
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition			
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)			
Feature	Length / Width / Spans	Owner				
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)				
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status			
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)			
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation			
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway			

NBI INSPECTION			1SSL
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	12	10/08/2023

GENERAL NOTES

Due to the poor condition of the north pier cap, the steel beams, the bridge deck and the leaking deck joints, it is recommended to maintain the inspection frequency at 12 months.

Detailed inspection completed using MDOT reach all, traffic control and Amtrak flagger. Completed on a Sunday to limit impacts to motoring public, which was very successful.

NS/Amtrak Contractor Safety Orientation Training required prior to detailed inspection. Railroad flagging required during detailed inspection.

Bridge scheduled to be rehabilitated in 2024.

bridge scrieduled to	De Terrabi	illaleu	111 2024	h.
DECK				
	10/21	10/22	10/23	
1. Surface (SIA-58A)	4	4	4	Structural deck surface, no wearing surface present. Longitudinal and transverse full depth cracking and delaminated areas and spalls. Heaviest concentration of delaminations and spalls is in the north span. Diagonal cracking at skewed ends spaced at 3'. Approx. 2047 sft of surface defects, or approx. 18% of the deck and sidewalk areas. Additional 1270 sft of map cracking on sidewalks. HMA patches have failed. (10/23) Longitudinal and transverse full depth cracking and delaminated areas and spalls. Heaviest concentration of delaminations and spalls is in the north span. Diagonal cracking at skewed ends spaced at 3'. Approx. 1796 sft of surface defects, or approx. 16% of the deck and sidewalk areas. HMA patches have failed. (10/22) Longitudinal and transverse full depth cracking and delaminated areas and spalls. Heaviest concentration of delaminations and spalls is in the north span. Diagonal cracking at skewed ends spaced at 3'. Approx. 1796 sft of surface defects, or approx. 16% of the deck and sidewalk areas. HMA patches have failed. (10/21)
2. Expansion Joints	4	4	4	Leaking water and sediment below onto pier and beam ends. Joints are debris filled and partially broken. Retainer has broken off for entire width of left turn lane and extends into the southbound lane. Small piece broken off in northbound through lane. Spalls and delaminations along joint. East end at curb line is spalled and filled with debris. Light is visible through the joint from below the bridge. Areas of joint patched with asphalt. (10/23)

delaminations along joint. East end at curb line is spalled and filled with debris. Light is visible through the joint from below the bridge. Areas of joint patched with asphalt. (10/23)

Leaking below onto pier and beam ends. Joints are debris filled and partially broken. Spalls and delaminations along joint. East end at curb line is spalled and filled with debris. Light is visible through the joint from below the bridge. Areas of joint patched with asphalt. (10/22)

Leaking below onto pier and beam ends. Joints are debris filled and partially broken. Spalls and delaminations along joint. East end at curb line is spalled and filled with debris. Light is visible through the joint from below the bridge. Areas of joint header move under traffic load. (10/21)

3. Other Joints 4 4 4 Leaking below joints at north pier onto beam ends and pier. Joint filler present at north pier. Joints Joint is broken at north reference line. Large spall at south reference line joint. Seal material is separating. (10/23)

Leaking below joints at north pier onto beam ends and pier. Joint filler present at north pier. Joint is broken at north reference line. Large spall at south reference line joint. Seal material is separating. (10/22)

Leaking below joints at north pier onto beam ends and pier. Joint filler present at north pier. Joint is broken at north reference line. Large spall at south reference line joint. Seal material is separating. (10/21)

STR 11065				BRIDGE SAFETY INS	PECTION REPORT	
Feature NORFOLK SOUTHE Location 0.9 MI E OF US-23 Region / County	Facility EMEDICAL CENTER Feature NORFOLK SOUTHERN RR LOCATION 1.9 MI E OF US-23 BR			tude / Longitude 858 / -83.7321 gth / Width / Spans / 70.9 / 3 t / Recon. / Paint / Ovly. 2 / / 1982 / 1982 erial / Design peel / 32 Multi Str Comp	MDOT Structure ID 814021200000R01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/08/2023 / 1SSL	Structure Condition Poor Condition(4) Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway
4. Railings	6	6	6	at the steel tube connection spaced every 2-3' at end with the concrete railing has we tube connections to the contract railing has we the concrete railing has we then the concrete railing has we then the concrete railing has we then the concrete railing has been concrete railing has bee	ons to the concrete end wall valls. (10/23) ertical cracks with some rus oncrete end wall at all quadi	st staining and is spalled at the steel
5. Sidewalks or Curbs	5	5	4	delaminated concrete on ealong joints. Some leachin 6.8% of the sidewalk areas sidewalk areas. West side sidewalk has map crackin 1/2" at reference lines in Cracking and minor spalls leaching and rust stains. D (10/22) Cracking and minor spalls.	east sidewalk, spans 1 and g and rust stains. Delamina with an an additional 1270 walk has map cracking in 5 g in 60% of the surface in s IW and NE quadrants. (10/2). Several large areas of del ifferential settlement at reference.	ewalks. Several large areas of 2. Small delaminations concentrated ations, cracks, and spalls total 260 sft or 0 sft of map cracking or 33% of the 10% of the surface in spans 2 and 3, east pans 1 and 3. Differential settlement of 23) aminated concrete on sidewalks. Some erence lines in NW and NE quadrants. aminated concrete on sidewalks. Some erence lines in NW and NE quadrants.
6. Deck Bottom Surface (SIA-58B)	4	4	4	the deck bottom surface. S the worst condition, corres Multiple leaching cracks, w of exposed rusted reinforc	Several areas of exposed ruponding with the top surfactivet areas, delaminated and ement. (10/22) the areas, delaminated and special areas are	spalled concrete areas, approx. 15% of usted reinforcement. The north span is in the condition. (10/23) spalled concrete areas. Several areas of conditions are as several areas.
7. Deck (SIA-58)	4	4	4	concentration of deteriorat 3'. Approx. 3317 sft of sur approx. 29% of the deck a Multiple cracks, spalls, and concentration of deteriorat 3'. Approx. 1802 sft of sur (10/22) Multiple cracks, spalls, and concentration of deteriorat	ion is in the north span. Dia face defects noted (1270 s nd sidewalk areas. (10/23) d delaminated areas totalinion is in the north span. Dia face defects noted, or appred delaminated areas totalinion is in the north span. Dia face defects noted.	g 16% of the deck area. Largest agonal cracking at skew ends spaced at ft of map cracking in sidewalks), or g 16% of the deck area. Largest agonal cracking at skew ends spaced at ox. 16% of the deck and sidewalk areas. g 16% of the deck area. Largest agonal cracking at skew ends spaced at ox. 16% of the deck and sidewalk areas.
8. Drainage				(10/23) (10/22) (10/21)		

SUPERSTRUCTURE

10/21 10/22 10/23

STR 11065				BRIDGE SAFETY INSI	PECTION REPORT	
Facility E MEDICAL CENTER Feature NORFOLK SOUTHE Location 0.9 MI E OF US-23 I Region / County University(6) / Wash	RN RR 3R	1)	42.28 Leng 160 / Built 1982 Mate	de / Longitude 158 / -83.7321 th / Width / Spans 70.9 / 3 / Recon. / Paint / Ovly. / 1982 / 1982 rial / Design el / 32 Multi Str Comp	MDOT Structure ID 814021200000R01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/08/2023 / 1SSL	Structure Condition Poor Condition(4) Operational Status A Open, no restriction(A) Scour Evaluation N Not Over Waterway
9. Stringer	4	4	4			vy pack rust. Diaphragms under joints
(SIA-59)				secondary members. The piers, are in satisfactory to joint have more corrosion t 10% at most beam ends. SBrR.xlsx" for detailed beam All of the beam ends at joir have heavy corrosion, surf secondary members. The piers, are in satisfactory to joint have more corrosion t All of the beam ends at joir have heavy corrosion, surf secondary members. The	majority of the beam length fair condition. The north spot han other spans. Paint system end measurements. (10/2 his have corrosion and heavace rust and paint failure. To majority of the beam length fair condition. The north spot han other spans. (10/22) his have corrosion and heavace rust and paint failure. To majority of the beam length fair condition. The north spot han condition. The north spot har condition. The north spot har condition. The north spot har condition.	These diaphragms are non-structural none and the pan beams away from the north pier tem has failed and section loss exceeds 223 EMCD Beam End Dimensions for 33 yoy pack rust. Diaphragms under joints These diaphragms are non-structural none north pier way from the beam ends at the pan beams away from the north pier way pack rust. Diaphragms under joints These diaphragms are non-structural not
10. Paint (SIA-59A)	4	4	3	failure exceeds 15%. (10/2 Paint system has failed. To failure exceeds 15%. (10/2	(3) op coat is blistering in areas (2) op coat is blistering in areas	s where it has not peeled off. Paint s where it has not peeled off. Paint s where it has not peeled off. Paint
11. Section Loss	1	1	1	flanges up to 42.3% (Span Most beams have at least "2023 EMCD Beam End D (10/23) Beam ends at both piers ha	3, Beam J) and up to 39.8° 10% section loss in the bott	
12. Bearings	6	5	5	deformation in some elastor Paint cracking due to move deformation in some elastor Paint cracking due to move	omeric pads at piers. (10/23 ement on elastomeric pads. omeric pads at piers. (10/22	Rusted sole plates at Pier 2. Minor 2) Rusted sole plates at Pier 2. Minor
SUBSTRUCTURE						
	10/21	10/22	10/23			
13. Abutments (SIA-60)	7	7	7	Multiple vertical hairline cra		ce. No delaminations found. (10/23) ce. No delaminations found. (10/22) minations found. (10/21)
14. Piers (SIA-60)	4	4	4	for north pier (Pier 2). Exp surface. Water on surface 2nd column from east end both crashwalls. Standing Cracked, spalled and delar for north pier (Pier 2). Exp surface. Water on surface 2nd column from east end Cracked, spalled and delar for north pier (Pier 2). Exp	osed rusted steel in north p s from leaking joints above. in south pier. Vertical crack water present in front of souminated concrete totaling 26 osed rusted steel in north p s from leaking joints above. in south pier. (10/22) minated concrete totaling 26 osed rusted steel in north p s from leaking joints above.	00 sft for south pier (Pier 1) and 350 sft bier cap, north face. Graffiti covered. Vertical cracks and delamination in its and delaminations on both faces of outh crashwall. (10/23) 80 sft for south pier (Pier 1) and 320 sft bier cap, north face. Graffiti covered. Vertical cracks and delamination in 80 sft for south pier (Pier 1) and 320 sft bier cap, north face. Graffiti covered. Vertical cracks and delamination in

STR 11065					SPECTION REPORT	
Facility E MEDICAL CENTER Feature			42.28	ude / Longitude 358 / -83.7321 gth / Width/Spans	MDOT Structure ID 814021200000R01 Owner	Structure Condition Poor Condition(4)
NORFOLK SOUTHER	N RR		160 / 70.9 / 3		City: ANN ARBOR(0212))
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
0.9 MI E OF US-23 BI	R		1982	/ / 1982 / 1982	Brighton(3)	A Open, no restriction(A)
Region / County			Mate	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washt	enaw(8	1)	3 Ste	eel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway
15. Slope Protection	7	7	7	adjacent to slope protecti along the north embankm Trees growing in slope pa		. (10/22)
16. Channel (SIA-61)	N	N	N	(10/23) (10/22) (10/21)		
17. Scour Inspection	N	N	N	(10/23) (10/22) (10/21)		
APPROACH						
	10/21	10/22	10/23			
18. Approach Pavement	6	6	6	and slight settlement at a filled with asphalt. (10/23 South approach with som and slight settlement at a No patches on south app	butment reference lines up) ne sealed cracks. North appi butment reference lines. (10	North approach has some cracks.
19. Approach Shoulders Sidewalks	6	6	6	approach curb line and b HMA patches and spalls approach curb line and b HMA patches and spalls	ridge sidewalk exceeds 1" ir in SE, NE, and NW quadrar ridge sidewalk exceeds 1" ir in SE, NE, and NW quadrar	ats. Elevation difference between the NW, SW and SE quadrants. (10/23) ats. Elevation difference between the NW, SW and SE quadrants. (10/22) ats. Elevation difference between the NW, SW and SE quadrants. (10/21)
20. Approach Slopes					NW, NE, and SE quadrant sl	posts are in wood chipped areas. opes are heavily vegetated. The SW
21. Utilities				Lights along bridge on we	est and east sides. Plans inc	dicate conduits in sidewalks. (10/23) dicate conduits in sidewalks. (10/22) dicate conduits in sidewalks. (10/21)
22. Drainage Culverts				(10/23) (10/22) (10/21)		
MISCELLANEOUS						
Guard Rail					Other Items	
<u>Item</u>			Rati	<u>ng</u>	<u>Item</u>	Rating
36A. Bridge Railings			0		71. Water Adequacy	N
36B. Transitions			0		72. Approach Alignment	8
36C. Approach Guard	drail		0		Temporary Support	0 No Temporary Supports
36D. Approach Guard	drail En	ds	0		High Load Hit (M)	No
					Special Insp. Equipment	4

Critical Feature Inspections (SIA-92)

STR 11065	BRIDGE SAFETY INS	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway

Freq Date

92A. Fracture Critical92B. Underwater92C. Other Special92D. Fatigue Sensitive

STR 11065 STRUCTURE INVENTORY AND APPRAISAL **Structure Condition Facility** Latitude / Longitude **MDOT Structure ID** E MEDICAL CENTER 42.2858 / -83.7321 814021200000R01 Poor Condition(4) Length / Width / Spans **Feature** Owner 160 / 70.9 / 3 NORFOLK SOUTHERN RR City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **Operational Status** 0.9 MI E OF US-23 BR 1982 / / 1982 / 1982 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/08/2023 / 1SSL N Not Over Waterway **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 1982 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 1982 5D - Route Number 00000 5D - Route Number 32 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 3 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 5 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 2 PR Number PR Number 79 - Rail Type 3 Control Section Control Section 80 - Post Type 3 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 1 108A - Wearing Surface 13 - LRS Route-Subroute 0000018392 04 13 - LRS Route-Subroute 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 14 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 36 29 - ADT 17220 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2014 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 2 42B - Service Type Under 46.9 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 47.01 47L - Left Horizontal Clear 5 48 - Max Span Length 62 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 160 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 10.5 99 47R - Right Horizontal Clear 46.9 54B - Left Underclearance 99 50B - Width Right Curb/SW 10.5 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 46.9 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 70.9 109 - Truck % 5 55A - Reference Feature R 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 18 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 15356 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/08/2023 2030 Freeway 102 - Traffic Direct 91 - Inspection Freq 12 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 0 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 0 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 0 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 4 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 36 2 11 <u>656.2</u> 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 6 176A - Und Water Insp Method 0 71 - Waterway Adequacy Ν 94 - Bridge Cost 2062 58 - Deck Rating 72 - Approach Alignment 95 - Roadway Cost 8 0 58A/B - Deck Surface/Bottom 4 4 103 - Temporary Structure 96 - Total Cost 2062 59 - Superstructure Rating 4 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2017 59A - Paint Rating 3 **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 4 61 - Channel Rating 37 - Historical Significance 31 - Design Load Ν 5 9 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load Ν 1.93 38 - Navigation Control N **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.18 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.16 70 - Posting 5 141 - Posted Loading

В

193 - Overload Class

STR 11065	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)		
Feature	Length / Width / Spans	Owner			
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway		

No inspections available for bridge key 814021200000R01

STR 11065	WORK RECOM	MENDATIONS	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway

WORK RECOMMENDATION	DNS		1SSL
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	12	10/08/2023
RECOMMENDATIONS & A	ACTION ITEMS		

MMENDATIONS & ACTION ITEM	IS .	
Recommendation Type	Priority	Description
Brush Cut	Н	Remove vegetation overgrowth from all quadrants and slope paving.
Railing Repair	Н	Remove and replace bridge railings.
Joint Repair	Н	Replace all deck joints.
Full Paint	Н	Paint structure, at least at joints (zone paint).
Super Repair	Н	Repair beam ends under the existing deck joints.
Substr Repair	Н	Replace both pier caps and make substructure repairs.
Deck Replace	Н	Replace deck.

STR 11065 LOAD RATING ASSUMPTIONS Latitude / Longitude **Structure Condition Facility MDOT Structure ID** 814021200000R01 E MEDICAL CENTER 42.2858 / -83.7321 Poor Condition(4) **Feature** Length / Width / Spans Owner 160 / 70.9 / 3 NORFOLK SOUTHERN RR City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC** Location **Operational Status** 0.9 MI E OF US-23 BR 1982 / / 1982 / 1982 Brighton(3) A Open, no restriction(A) Material / Design **Last NBI Inspection Scour Evaluation** Region / County University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/08/2023 / 1SSL N Not Over Waterway

Rating Considers Field Condition of Members: Yes Inspection Date: 10/30/2022

Deterioration:

Beam Deterioration (2022): Span 1: Webs = 25% Loss, 3' Length at Pier 1, Bottom Flange = 10% Loss, North half of span. Span 2: Webs = 25% Loss, 3' Length at Piers 1 & 2, Bottom Flange = 10% Loss, South half of span, Span 3: Webs = 25% Loss, 3' Length at Pier 2, Bottom Flange = 15% Loss, Full span. See "2022 Beam end measurement tables.xlsx" for locations with further section loss. The end

Most Recent Year Construct / Reconstruct / Overlay: 1982

History of Work Impacting Load Rating:

None.

Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fb: ksi

Composite: Yes Number of Beams: 12 Shop Drawings Verified: No

Beam Size(s) & Names (each | Span 1: W27x94 w/ bottom flange cover plate; 55'-0 9/16". Span 2: @27x102 w/ bottom flange cover

span): plate; 61'-8 5/8". Span 3: W27x84; 42'-7 1/16"

Deck: Thickness (in.): 9.0 Fy / f'c: 60.0 / 3.0 ksi Deck Design Load > H15: Yes

Wearing Surface: Mat'l: Thickness (in.): Unit Weight (pcf.):

LEFT CENTER RIGHT

Barrier: Type / Weight (plf.): Steel/Conc / 506.0 / Steel/Conc / 506.0

Sidewalk: Width / Thick (in.): 141.13 / 12.3 / 144.13 / 12.3

Clear Roadway (ft.):

Additional Loads:

Diaphragms: third points in spans 1 and 2; midspan in Span 3. 0.325k max diaphragm load

Unique Factors That Affect Capacity:

8 1/2" x 3/4" cover plate on bottom of beams, Span 1 8 1/2" x 1" cover plate on bottom of beams, Span 2

Analyzed By: Carrie Hamel Date: 01/27/2023

Modified by: TRANAP8100 on 01/30/2023 Printed on 11/14/2023 Page 1 of 1

STR 11065 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionE MEDICAL CENTER42.2858 / -83.7321814021200000R01Poor Condition(4)

Feature Length / Width / Spans Owner

NORFOLK SOUTHERN RR 160 / 70.9 / 3 City: ANN ARBOR(0212)

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.9 MI E OF US-23 BR1982 / / 1982 / 1982Brighton(3)A Open, no restriction(A)

Region / CountyMaterial / DesignLast NBI InspectionScour EvaluationUniversity(6) / Washtenaw(81)3 Steel / 32 Multi Str Comp10/08/2023 / 1SSLN Not Over Waterway

Compliance Issue: None
Compliance Verified: No

Analysis Program: AASHTOWare Bridge Rating (BrR)

Analysis Program Version: 7.1.1.3001

Rating Considers Field Condition of Members: Yes Inspection Date: 10/30/2022

Controlling component and failure mode:

Beam H, Span 2, Design Shear - Steel @ Pier 1

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 1.93

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.18

MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.16

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more

Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class B

MDOT Item 193C - Overload Status N-No Restriction

Analyzed By:Carrie HamelDate:01/27/2023Checked By:Kyle SlavikDate:01/27/2023

STR 11065	REQUEST F	OR ACTION	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway

No inspections available for bridge key 814021200000R01

STR 11065 **OUTSTANDING WORK Facility** Latitude / Longitude **MDOT Structure ID Structure Condition** E MEDICAL CENTER 42.2858 / -83.7321 814021200000R01 Poor Condition(4) Length / Width / Spans **Feature** Owner NORFOLK SOUTHERN RR 160 / 70.9 / 3 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 0.9 MI E OF US-23 BR 1982 / / 1982 / 1982 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** 3 Steel / 32 Multi Str Comp 10/08/2023 / 1SSL N Not Over Waterway University(6) / Washtenaw(81)

WORK RECOMMENDATIONS

DECKS/SLABS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Deck Replace

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Replace deck. (Kyle Slavik 11/14/2023)

JOINTS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Joint Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Replace all deck joints. (Kyle Slavik 11/14/2023)

SUPERSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Full Paint

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Paint structure, at least at joints (zone paint). (Kyle Slavik 11/14/2023)

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Super Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Repair beam ends under the existing deck joints. (Kyle Slavik 11/14/2023)

SUBSTRUCTURE

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Substr Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

STR 11065	OUTSTAND	ING WORK	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
E MEDICAL CENTER	42.2858 / -83.7321	814021200000R01	Poor Condition(4)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	160 / 70.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.9 MI E OF US-23 BR	1982 / / 1982 / 1982	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/08/2023 / 1SSL	N Not Over Waterway

Replace both pier caps and make substructure repairs. (Kyle Slavik 11/14/2023)

Request For Brush Cut	Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment		Con	nplete Date

CommentsRemove vegetation overgrowth from all quadrants and slope paving. (Kyle Slavik 11/14/2023)

Request For Railing Repair	Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment			Complete Date

CommentsRemove and replace bridge railings. (Kyle Slavik 11/14/2023)

STR 11071 BRIDGE SAFETY INSPECTION REPORT					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing		

NBI INSPECTION					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date		
Pedro Trana	DLZ Michigan, Inc.	24	10/20/2022		

GENERAL NOTES

Epoxy overlay and maintenance repairs completed in 2021.

DECK				
	10/18	10/20	10/22	
1. Surface (SIA-58A)	7	7	7	Epoxy overlay installed in 2021. Minor hairline cracks. Several minor patches on deck. (10/22) Minor hairline cracks. Several minor delaminations or patches on deck. Minor spalls in deck. Nearly all of deck surface has polished aggregate. (10/20) Minor hairline cracks. Several minor delaminations or patches found on deck. Minor spalls in deck. Nearly all of deck surface has polished aggregate. (10/18)
2. Expansion Joints	7	7	7	Debris and vegetation present, especially at gutters. (10/22) Debris and vegetation present, especially at gutters. Delaminated concrete along west joint. (10/20) Debris and vegetation present, especially at gutters. Delaminated concrete found along west joint. (10/18)
3. Other Joints	5	5	7	Good condition. (10/22) Some spalled concrete and HMA patch adjacent to joint at west reference line and approach slab. Minor delaminations present along both joints. (10/20) Some spalled concrete and HMA patch adjacent to joint at west reference line and approach slab. Minor delaminations present along both joints. (10/18)
4. Railings	6	6	7	Minor vertical cracks at rail post locations. Rails recently patched and sealed. (10/22) Outside railing has vertical cracks at rail post locations, spall at east reference line, and spalled and delaminated concrete at west end of rail with exposed bolts and wood debris. Interior railing has vertical cracks at 8' spacing. Delaminated and spalled concrete adjacent to west exp. joint on back side of inner railing. (10/20) Outside railing has vertical cracks at rail post locations, spall at east reference line, and spalled and delaminated concrete at west end of rail with exposed bolts and wood debris. Interior railing has vertical cracks at 8' spacing. Delaminated and spalled concrete adjacent to west exp. joint on back side of inner railing. (10/18)
5. Sidewalks or Curbs	6	6	6	Hollow sounding area at the west reference line and the west sidewalk has an open transverse crack. Patched area in sidewalk at the east reference line. Cracking throughout. (10/22) Large hollow sounding areas at the west and east reference lines have both grown in size since 2012, and the west sidewalk has transverse crack at edge of void. Moisture may have entered through the joint causing undermining of the supporting soil. Concrete may not be fully supported along the reference lines. Spall at railing/sidewalk interface in approach slab with vegetation present. Cracking throughout. (10/20) Large hollow sounding areas at the west and east reference lines have both grown in size since 2012, and the west sidewalk has transverse crack at edge of void. Moisture may have entered through the joint causing undermining of the supporting soil. Concrete may not be fully supported along the reference lines. Spall at railing/sidewalk interface in approach slab with vegetation present. Cracking throughout. (10/18)
6. Deck Bottom Surface (SIA-58B)	N	N	N	(10/22) (10/20) (10/18)

STR 11071 BRIDGE SAFETY INSPECTION REPORT						
	-		l atit		MDOT Structure ID	Structure Condition
Facility FULLER ROAD (EB)				ude / Longitude 371 / -83.7254	814021200124B02	Fair Condition(6)
Feature				th / Width / Spans	Owner	rail Condition(o)
HURON RIVER			_	/ 41 / 3	City: ANN ARBOR(0212)	
Location				/ Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WAL	LST		1993			•
Region / County	LSI			rial / Design	Brighton(3) Last NBI Inspection	A Open, no restriction(A) Scour Evaluation
University(6) / Wash	tonow/9	1)		stressed Concrete / 05	10/20/2022 / 9TJE	5 Stable w/in footing
Offiversity(0) / Wash	teriaw(o	1)		Bm/Gird- Multiple	10/20/2022 / 913L	3 Stable Will looting
7. Deck (SIA-58)	7	7	7	Minor hairline cracks. Seve approach slab at west refe deck. Polished aggregate Minor hairline cracks. Seve	rence line. Spall at west ref across entire deck surface. eral delaminations or patche	s found on deck. One delamination on line, south fascia. Minor spalls in
8. Drainage				(10/22) (10/20) (10/18)		
SUPERSTRUCTUR	RE					
	10/18	10/20	10/22			
O. Ctuin man	0	6	•	Deam and at south facein	haana waaantii watabad Ed	as small at assiste forcia because and at
9. Stringer (SIA-59)	6	0	6	east abutment. Minor surfatwo beam lines and 1' at or exposed strands. Moisture (10/22) Spall at north and south far present at beam ends on the east pier, east beam. Mino and vegetation at north fascial bat south fascia beam end a one beam line in the west and some efflorescence not Spall at north and south far present at beam ends on the east pier, east beam. Mino and vegetation at north fascial bat south fascia beam end a one beam line in the west stains at north fascial bat south fascial beam end a one beam line in the west stains at north fascial beam end a one beam line in the west stains at north fascial beam end a one beam line in the west stains at north fascial beam end a one beam line in the west stains at north fascial beam end a one beam line in the west stains at north fascial beam end at the control of th	ace spall at north fascia bear ne beam line in the west spa- e and some efflorescence no scia beam ends, west pier, op of piers. Delamination at our spalling at south fascia be acia beam end, west beam, west beam end, east beam, west at west abutment. Grout mis span, but no evidence of lea oted between beams at grout scia beam ends, west pier, op of piers. Delamination at our spalling at south fascia be acia beam end, west beam, opeam end, east beam, west at west abutment. Grout mis	west beams. Dirt and vegetation and rust stains at south fascia beam end, am end, east pier, west beam. Spall west pier. Crack with efflorescence and pier. Spall and exposed/rusting rebar ssing for 10' at two beam lines and 1' at aking. No exposed strands. Moisture
10. Paint (SIA-59A)	N	N	N	(10/22) (10/20) (10/18)		
11. Section Loss	N	N	N	(10/22) (10/20) (10/18)		
12. Bearings	6	6	6	provides full support. (10/2 Overhanging elastomeric b provides full support. (10/2	2) pearing pad at south fascia b 0) pearing pad at south fascia b pearing pad at south fascia b	peams on abutments and piers, but peams on abutments and piers, but peams on abutments and piers, but
SUBSTRUCTURE						
	10/18	10/20	10/22			
13. Abutments (SIA-60)	7	7	7	Minor vertical cracks at ab	utments. No spalls or delan utments. No spalls or delan utments. No spalls or delan	ninations found. (10/20)

STR 11071				BRIDGE SAFETY INS	PECTION REPORT	
Facility FULLER ROAD (EB) Feature)		42.28 Leng	ude / Longitude 871 / -83.7254 hth / Width / Spans	MDOT Structure ID 814021200124B02 Owner	Structure Condition Fair Condition(6)
HURON RIVER Location 0.5 MI EAST OF WA Region / County University(6) / Wasl		1)	Built 1993 Mate 5 Pre	/ 41 / 3 / Recon. / Paint / Ovly. / / / 2021 rial / Design estressed Concrete / 05 Bm/Gird- Multiple	City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/20/2022 / 9TJE	Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing
14. Piers (SIA-60)	7	7	7	pier cap end and the east s Hairline vertical cracks, sca pier cap end and the east s Hairline vertical cracks, sca	side of west pier at the copir aled concrete, and two mind side of west pier at the copir	or spalls on the west pier at the northing. (10/20) or spalls on the west pier at the north
15. Slope Protection	6	6	6	East bank heavily armored Trees growing between EE where riprap is missing. E Trees growing between EE	I with riprap. (10/22) 3 and WB abutments. Geot ast bank heavily armored w	extile fabric exposed at west abutment
16. Channel (SIA-61)	7	7	7	Channel banks and bottom Channel banks and bottom Channel banks and bottom		drift in east span. (10/22)
17. Scour Inspection	7	7	7	Channel banks and bottom Channel banks and bottom Channel banks and bottom	n appear stable. (10/20)	
APPROACH						
	10/18	10/20	10/22			
18. Approach Pavement		7	7	has been sealed. Joint bet Cracks in approach slabs in HMA pavement on west at has been sealed. Joint bet Concrete approach slabs in missing sealant. (10/20) HMA pavement on west at has been sealed. Joint bet	ween east approach slab an have been sealed. (10/22) oproach is newer. East app ween east approach slab an have a wide longitudinal craco oproach is newer. East app ween east approach slab an	roach has some map cracking which and HMA approaches is well sealed. roach has some map cracking which and HMA approaches is well sealed. It is called that the centerline that has some roach has some map cracking which and HMA approaches is well sealed. It is the centerline that has some
19. Approach Shoulders Sidewalks	6	6	6	Longitudinal crack on east Vegetation along east side Concrete approach sidewa SW sidewalk has transvers approach HMA sidewalk fr sidewalk. (10/20) Concrete approach sidewa SW sidewalk has transvers	approach HMA sidewalk from the sidewalk. (10/22) alks are sound in SW and SI se full-width crack at edge of the SE corner of the fentalks are sound in SW and SI se full-width crack at edge of the sidewalks.	valk has a large concrete patch. om the SE corner of the fence post. E quadrants, but not fully supported. If void. Longitudinal crack on east ce post. Vegetation along east E quadrants, but not fully supported. If void. Longitudinal crack on east ce post. Vegetation along east
20. Approach Slopes				(10/22) (10/20) (10/18)		
21. Utilities				bridge in SW and SE quad Light poles on bridge on to bridge in SW and SE quad	drants. (10/22) op of outside barrier railing. drants. (10/20) op of outside barrier railing.	Storm sewer outfall located south of Storm sewer outfall located south of Storm sewer outfall located south of
22. Drainage Culverts				(10/22) (10/20) (10/18)		

STR 11071	BRIDGE SAFETY INS	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing

MISCELLANEOUS			
Guard Rail		Other Items	
<u>Item</u>	Rating	<u>Item</u>	Rating
36A. Bridge Railings	1	71. Water Adequacy	8
36B. Transitions	1	72. Approach Alignment	8
36C. Approach Guardrail	1	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	1	High Load Hit (M)	No
		Special Insp. Equipment	2
		Underwater Insp. Method	1
False Decking (Timber) Removed	to Complete Inspection	N/A - No False Decking	

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical 92B. Underwater 92C. Other Special 92D. Fatigue Sensitive

STR 11071 STRUCTURE INVENTORY AND APPRAISAL **MDOT Structure ID Structure Condition Facility** Latitude / Longitude FULLER ROAD (EB) 42.2871 / -83.7254 814021200124B02 Fair Condition(6) **Feature** Length / Width / Spans Owner **HURON RIVER** 168 / 41 / 3 City: ANN ARBOR(0212) Built / Recon. / Paint / Ovly. **TSC Operational Status** Location 0.5 MI EAST OF WALL ST 1993 / / 2021 A Open, no restriction(A) / Brighton(3) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/20/2022 / 9TJE 5 Stable w/in footing Box Bm/Gird- Multiple **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 202 5D - Route Number 00000 5D - Route Number 05 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 5 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 0 10L - Best 3m Unclr-Lt 77 - Steel Type 10R - Best 3m Unclr-Rt 0 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 0 PR Number PR Number 79 - Rail Type Control Section Control Section 8 80 - Post Type 1 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 1 12 - Base Highway Network 12 - Base Highway Network 0 13 - LRS Route-Subroute 13 - LRS Route-Subroute 108A - Wearing Surface 0000014481 04 1 108B - Membrane 19 - Detour Length 19 - Detour Length 0 4 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 0 29 - ADT 11250 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 24.9 42B - Service Type Under 5 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 25 47L - Left Horizontal Clear 4 48 - Max Span Length 56.1 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 168 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 0 99 47R - Right Horizontal Clear 25.9 54B - Left Underclearance 99 50B - Width Right Curb/SW 11.2 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 25.9 102 - Traffic Direct Under Clearance Year 1 52 - Width Out to Out 41 109 - Truck % 5 55A - Reference Feature Ν 112 - NBIS Length 110 - Truck Network 55B - Right Horiz Clearance 0 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 12950 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/20/2022 2035 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 1 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 1 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 1 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 1 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 6 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 75 - Type of Work 35 2 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 168 176A - Und Water Insp Method 71 - Waterway Adequacy 94 - Bridge Cost 14 8 58 - Deck Rating 72 - Approach Alignment 95 - Roadway Cost 8 58A/B - Deck Surface/Bottom N 103 - Temporary Structure 96 - Total Cost 14 59 - Superstructure Rating 6 113 - Scour Criticality 97 - Year of Cost Estimate 2013 59A - Paint Rating Ν **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating 37 - Historical Significance 31 - Design Load 5 9 62 - Culvert Rating N 98A - Border Bridge State 41 - Open, Posted, Closed Α 98B - Border Bridge % 63 - Fed Oper Rtg Method 6 **Navigation Data** 2.98 101 - Parallel Structure R 64F - Fed Oper Rtg Load 38 - Navigation Control 0 FPA ID 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.85 40 - Horizontal Clearance 0 64MC - Mich Oper Truck 143 - Pin & Hanger Code 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear 66 - Inventory Load 1.79 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11071	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing		

No inspections available for bridge key 814021200124B02

STR 11071 WORK RECOMMENDATIONS					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing		

WORK RECOMMENDATIONS						
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date			
Pedro Trana	DLZ Michigan, Inc.	24	10/20/2022			
RECOMMENDATIONS & ACTION ITEMS						

RECOMMENDATIONS & ACTION ITEMS					
Recommendation Type	Priority	Description			
Brush Cut	M	Brush cut at abutments on slopes			

STR 11071 SCOUR CRITICAL BRIDGE ACTION PLAN					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing		

No plan available for bridge key 814021200124B02

STR 11071	LOAD RATING	ASSUMPTIONS	
acility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)
- eature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
_ocation	Built / Recon. / Paint / Ovly.	TSC	Operational Status
).5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
Jniversity(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing
Rating Considers Field Condition	on of Members: Yes	Inspection Date: 10	/20/2022
None that impacts capacity.			
Most Recent Year Construct / R	•		
listory of Work Impacting Load			
None. Epoxy overlay added in 202	21; however, increase in dead load o	on structure is negligible (thin	overlay).
Superstructure Component:	5 Prestressed Concrete	Beam fy: ks	si Beam f'c / fb: 5.0 ksi
Composite:	Yes Number of Beams	s: 13 Shop Drav	wings Verified: No
Beam Size(s) & Names (each span):	(13) 27" deep x 36" wide adjacent box beams; 3 spans		
Deck: Thickness (in.):	6.0 Fy/f'c: 60.0	/ 4.0 ksi De	ck Design Load > H15: Yes
Vearing Surface: Mat'l:	Concrete Th	nickness (in.): 6.0	Unit Weight (pcf.): 150.0
	LEFT	CENTER	RIGHT
		Bridge Type 5 + / 500.0	
Donnien. Tune / Meinht /mlf \.		BUONE 1706 5 + / 500 0	Dila Dailina / 100 0
	• •	Bridge Type 5 1 / 500.0	Bike Railing / 128.0
	Barrier Type 5 / 500.0 11.92 / 12.0	/ January 1 / Journal /	Bike Railing / 128.0 11.92 / 12.0
Barrier: Type / Weight (plf.): Bidewalk: Width / Thick (in.): Clear Roadway (ft.):	• •	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.):	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	11.92 / 12.0	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along ou	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along out	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along ou	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along out	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along out	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	•
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along out	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk along out	11.92 / 12.0 26.0 tside fascia; 574 lb internal diaphrag	/	· ·

Analyzed By: DLZ Date: 11/09/2018

Modified by: TRANAP8100 on 03/21/2023 Printed on 03/21/2023 Page 1 of 1

STR 11071 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionFULLER ROAD (EB)42.2871 / -83.7254814021200124B02Fair Condition(6)

Feature Length / Width / Spans Owner

HURON RIVER 168 / 41 / 3 City: ANN ARBOR(0212)

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.5 MI EAST OF WALL ST1993 / / 2021Brighton(3)A Open, no restriction(A)Region / CountyMaterial / DesignLast NBI InspectionScour Evaluation

University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/20/2022 / 9TJE 5 Stable w/in footing Box Bm/Gird- Multiple

Compliance Issue:NoneCompliance Verified:NoAnalysis Program:ConSpanAnalysis Program Version:10.00.01.20

Rating Considers Field Condition of Members: Yes Inspection Date: 10/20/2022

Controlling component and failure mode:

Span 1, interior beam, positive flexure

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.98

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.85 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.79

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more **Posted By** No Posting

Posted By No MDOT Item 141 - Posted Loading

....**.**

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

 Analyzed By:
 DLZ
 Date:
 11/09/2018

 Checked By:
 DLZ
 Date:
 11/16/2018

STR 11071 REQUEST FOR ACTION				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
FULLER ROAD (EB)	42.2871 / -83.7254	814021200124B02	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI EAST OF WALL ST	1993 / / / 2021	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / 9TJE	5 Stable w/in footing	

No inspections available for bridge key 814021200124B02

STR 11071 OUTSTANDING WORK MDOT Structure ID Latitude / Longitude **Structure Condition Facility** FULLER ROAD (EB) 42.2871 / -83.7254 814021200124B02 Fair Condition(6) **Feature** Length / Width / Spans Owner **HURON RIVER** 168 / 41 / 3 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 0.5 MI EAST OF WALL ST 1993 / / 2021 Brighton(3) A Open, no restriction(A) / **Last NBI Inspection** Region / County Material / Design **Scour Evaluation** 5 Prestressed Concrete / 05 Box Bm/Gird- Multiple University(6) / Washtenaw(81) 10/20/2022 / 9TJE 5 Stable w/in footing

WORK RECOMMENDATIONS

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Brush Cut

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Brush cut at abutments on slopes (Pedro Trana 03/21/2023)

STR 11070	BRIDGE SAFETY INS	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing

NBI INSPECTION			ABO5
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/20/2022

GENERAL NOTES

Epoxy overlay and maintenance repairs completed in 2021.

Epoxy overlay and	maintenan	ос торс	1113 0011	110100 111 2021.
DECK				
	10/18	10/20	10/22	
1. Surface (SIA-58A)	6	6	7	Minor hairline cracking. Minor deck patches. (10/22) Minor hairline cracking. Several areas of delaminated and spalled concrete on deck top surface. Areas in east span with spalls with exposed reinforcing steel. Some HMA patches. (10/20) Minor hairline cracking. Several areas of delaminated and spalled concrete found on deck top surface. Four areas in east span with spalls with exposed reinforcing steel. (10/18)
2. Expansion Joints	7	7	7	Debris and vegetation present, especially in gutter lines. No evidence of leaking. (10/22) Debris and vegetation present, especially in gutter lines. No evidence of leaking. Delaminated concrete along both joints. Minor spall at sidewalk fascia at east expansion joint. (10/20) Debris and vegetation present, especially in gutter lines. No evidence of leaking. Delaminated concrete found along both joints. Minor spall at sidewalk fascia at east expansion joint. (10/18)
3. Other Joints	5	5	7	Good condition. (10/22) Some spalled and delaminated concrete adjacent to joint at west reference line and approach slab. Missing portions of joint filler. Minor delamination along east reference line. (10/20) Some spalled and delaminated concrete adjacent to joint at west reference line and approach slab. Missing portions of joint filler. Minor delamination along east reference line. (10/18)
4. Railings	6	6	7	Minor vertical cracks at top of rails. Rails recently patched and sealed. (10/22) Outside railing has 6 sft of delaminated concrete with leaching along the top and sidewalk side at NE quadrant near reference line, and vertical cracks at rail posts. Interior rail has vertical cracks at 8' spacing. Some horizontal cracks present. Minor map cracking near top of railing near railing posts. (10/20) Outside railing has 6 sft of delaminated concrete with leaching along the top and sidewalk side at NE quadrant near reference line, and vertical cracks at rail posts. Interior rail has vertical cracks at 8' spacing. (10/18)
5. Sidewalks or Curbs	6	6	6	Significant map cracking. Debris located along south railing of north sidewalk. Trees overhanging sidewalks at most approach quadrants. (10/22) Large hollow sounding areas at the west and east reference lines have grown in size and now include the entire sidewalk area. Moisture may have entered through the joint causing undermining of the supporting soil. Significant map cracking. Debris located along south railing of north sidewalk. Trees overhanging sidewalks at most approach quadrants. (10/20) Large hollow sounding areas at the west and east reference lines have grown in size and now include the entire sidewalk area. Moisture may have entered through the joint causing undermining of the supporting soil. Elevation difference of 1.5" at west reference line. Significant map cracking. Debris located along south railing of north sidewalk. (10/18)
6. Deck Bottom Surface (SIA-58B)		N	N	(10/22) (10/20) (10/18)

STR 11070				BRIDGE SAFETY INS	PECTION REPORT	
Facility FULLER ROAD (WI Feature HURON RIVER Location 0.5 MI EAST OF WA Region / County University(6) / Was	ALL ST	1)	42.28 Leng 168 Built 1994 Mate	ude / Longitude 871 / -83.7254 hth / Width / Spans / 41 / 3 / Recon. / Paint / Ovly.	MDOT Structure ID 814021200124B01 Owner City: ANN ARBOR(0212) TSC Brighton(3) Last NBI Inspection 10/20/2022 / ABO5	Structure Condition Fair Condition(6) Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing
		.,		3m/Gird- Multiple		- Ctable Will Tooling
7. Deck (SIA-58)	6	6	7	adjacent box beams. Epox Minor hairline cracking. De west approach slab at wes primarily in the east most s adjacent box beams. (10/2 Minor hairline cracking. Ni on west approach slab at v	ky overlay installed in 2021. elaminations found on deck. st reference line. Areas of c span. Deck is 6" concrete v 20) ne delaminations found on west reference line. Areas span. Deck is 6" concrete v	ncrete wearing surface integral with the (10/22). Two minor spalls/delaminations on delaminated concrete total 96 sft, vearing surface integral with the deck. Two minor spalls/delaminations of delaminated concrete total 96 sft, vearing surface integral with the
8. Drainage				(10/22) (10/20) (10/18)		
SUPERSTRUCTU	JRE					
	10/18	10/20	10/22	!		
9. Stringer (SIA-59)	6	6	6	end at west abutment. Mo missing grout between bea Longitudinal cracking and allowing this area to retain underside and exterior fac west span. (10/22) Spall at north fascia beam vertical cracking and delar stains at north fascia bean fascia beam, west pier, ea pier, west beam. Moisture missing grout between bea Spall at north fascia beam vertical cracking and delar stains at north fascia beam fascia beam, west pier, ea pier, west beam. Moisture missing grout between bea	isture at west abutment who ams. Edge spall at north fas edge delamination at north moisture and should be cle with delaminations, appropriate end, west pier, west beam nination at north fascia beam end, east pier, east beam st beam. Hairline horizontal at west abutment where beams. (10/20) end, west pier, west beam nination at north fascia beam end, east pier, east beam st beam. Hairline horizontal at west abutment where beams.	ched. Edge spall at north fascia beam ere beam joint has small stalactites. No scia beam end at east abutment. fascia beam at east span. Vegetation is eared. Longitudinal cracking on eximately 3 feet, at north fascia beam at with exposed exterior strand. Hairline m end, east pier, west beam. Rust. Hairline horizontal cracking at south a cracking at south fascia beam, east eam joint has small stalactites. No with exposed exterior strand. Hairline m end, east pier, west beam. Rust. Hairline horizontal cracking at south a cracking at south a cracking at south fascia beam, east eam joint has small stalactites. No
10. Paint (SIA-59A)	9	N	N	(10/22) (10/20) (10/18)		
11. Section Loss	N	N	N	(10/22) (10/20) (10/18)		
12. Bearings	6	9	6	beams at piers, but provide Overhanging elastomeric libeams at piers, but provide	es full support. (10/22) bearing pad at north fascia es full support. (10/20) bearing pad at north fascia	beams at abutments and south fascia beams at abutments and south fascia beams at abutments and south fascia

SUBSTRUCTURE

10/18 10/20 10/22

STR 11070				BRIDGE SAFETY INS	PECTION REPORT	
Facility FULLER ROAD (WB Feature HURON RIVER)		42.28 Leng	ude / Longitude 371 / -83.7254 gth / Width / Spans / 41 / 3	MDOT Structure ID 814021200124B01 Owner City: ANN ARBOR(0212)	Structure Condition Fair Condition(6)
Location 0.5 MI EAST OF WA Region / County University(6) / Wash		1)	Built 1994 Mate 5 Pre	/ Recon. / Paint / Ovly.	TSC Brighton(3) Last NBI Inspection 10/20/2022 / ABO5	Operational Status A Open, no restriction(A) Scour Evaluation 5 Stable w/in footing
13. Abutments (SIA-60)	8	8	8	abutments and in the ripra sidewalk located under the Minor hairline cracks. No sabutments and in the ripra sidewalk located under the Minor hairline cracks. No sabutments and in the ripra	p slope protection between e west span between the all spalls or delaminations four p slope protection between e west span between the all spalls or delaminations four p slope protection betweer	nd. Trees are growing under both in the WB and EB structures. There is a butment and the water. (10/22) and. Trees are growing under both in the WB and EB structures. There is a butment and the water. (10/20) and. Trees are growing under west in the WB and EB structures. There is a butment and the water. (10/18)
14. Piers (SIA-60)	7	7	7	upstream side of west pier Minor hairline vertical crac upstream side of west pier	nosing. (10/22) ks present. No spalls or de nosing. (10/20) ks present. No spalls or de	elaminations. Concrete scaling on elaminations. Concrete scaling on elaminations. Concrete scaling on
15. Slope Protection	6	6	6	Banks are heavily armored Trees are growing between due to missing riprap. Ban	d with riprap. (10/22) n EB and WB abutments. (ks are heavily armored with n EB and WB abutments. (Geotextile fabric exposed on west end
16. Channel (SIA-61)	7	7	7	Channel banks and bottom Channel banks and bottom Channel banks and bottom	n appear stable. (10/20)	
17. Scour Inspection	7	7	7	Stream cross sections obta Stream cross sections obta Stream cross sections obta	ained. No scour noted. (10	oted. (10/22) 0/20)
APPROACH						
	10/18	10/20	10/22			
18. Approach Pavement	6	6	6	slab/pavement joint with so cracks. Concrete approach HMA pavement on west application slab/pavement joint with so cracks. Concrete approach (10/20) HMA pavement on west application slab/pavement joint with so	ome areas patched. East a h slab cracks have been so oproach is newer. HMA spatched. East a h slab has a wide longitudi oproach is newer. HMA spatched is newer. HMA spatched. East a come areas patched. East a	alls present at east approach approach HMA has multiple sealed ealed. (10/22) alls present at east approach approach HMA has multiple sealed inal crack at the centerline that is sealed. alls present at east approach approach HMA has multiple sealed inal crack at the centerline that is sealed.
19. Approach Shoulders Sidewalks	6	6	6	Heavy vegetation along ea concrete approach sidewa	ast HMA sidewalk. NW HM lk. (10/20) ast HMA sidewalk. NW HM	in sidewalks at both ends. (10/22) A sidewalk is 1.5" lower than the A sidewalk is 1.5" lower than the
20. Approach Slopes				(10/22) (10/20) (10/18)		
21. Utilities				mislocated. (10/22) Street light poles on top of mislocated. (10/20)	outer railing. Protective co	ollar at base of poles are cracked and ollar at base of poles are cracked and ollar at base of poles are cracked and

STR 11070	BRIDGE SAFETY IN	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing
22. Drainage Culverts	(10/22) (10/20) (10/18)		
MISCELLANEOUS			
		Other Items	
Guard Rail	Rating	Other Items	Rating
Guard Rail Item	Rating 1		Rating 8
Guard Rail Item 36A. Bridge Railings	Rating 1	<u>Item</u>	
MISCELLANEOUS Guard Rail tem 36A. Bridge Railings 36B. Transitions 36C. Approach Guardrail	<u>Rating</u> 1 1 1	Item 71. Water Adequacy	8

Special Insp. Equipment

Underwater Insp. Method

N/A - No False Decking

2

1

False Decking (Timber) Removed to Complete Inspection

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical 92B. Underwater 92C. Other Special 92D. Fatigue Sensitive

STR 11070		STRUCTURE INVENTOR	Y AND APPRAIS	AL	
Facility	La	atitude / Longitude	MDOT Structure II	D Structure Condition	1
FULLER ROAD (WB)		2.2871 / -83.7254	814021200124B01	Fair Condition(6)	
Feature	L	ength / Width / Spans	Owner	` ,	
HURON RIVER		68 / 41 / 3	City: ANN ARBOR((0212)	
Location		uilt / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI EAST OF WALL ST		994 / / / 2021	Brighton(3)	A Open, no restriction(A	4)
Region / County		aterial / Design	Last NBI Inspection	• '	' /
University(6) / Washtenaw(8		Prestressed Concrete / 05	10/20/2022 / ABO		
Oniversity(o) / Washtenaw(t		ox Bm/Gird- Multiple	10/20/2022 / ABO	5 Stable Will Toothing	
Bridge History, Type,		Route Carried By Struc	cture(ON Record)	Route Under Structure (UN	IDER Record)
27 - Year Built	1994	5A - Record Type	1	5A - Record Type	
106 - Year Reconstructed 202 - Year Painted		5B - Route Signing 5C - Level of Service	5	5B - Route Signing 5C - Level of Service	
203 - Year Overlay	2021	5D - Route Number	00000	5D - Route Number	
43 - Main Span Bridge Type	5 05	5E - Direction Suffix	0	5E - Direction Suffix	
44 - Appr Span Bridge Type		10L - Best 3m Unclr-Lt	0 0	10L - Best 3m Unclr-Lt	
77 - Steel Type	0	10R - Best 3m Unclr-Rt	99 99	10R - Best 3m Unclr-Rt	
78 - Paint Type	0	PR Number		PR Number	
79 - Rail Type 80 - Post Type	8	Control Section 11 - Mile Point	0	Control Section 11 - Mile Point	
107 - Deck Type	1	12 - Base Highway Network		12 - Base Highway Network	
108A - Wearing Surface	1	13 - LRS Route-Subroute	0000068012 94	13 - LRS Route-Subroute	
108B - Membrane	0	19 - Detour Length	4	19 - Detour Length	
108C - Deck Protection	1	20 - Toll Facility	3	20 - Toll Facility	
Structure Dimensi	ions	26 - Functional Class	16	26 - Functional Class	
34 - Skew	0	28A - Lanes On	2	28B - Lanes Under	
35 - Struct Flared	N	29 - ADT 30 - Year of ADT	11250 2015	29 - ADT 30 - Year of ADT	
45 - Num Main Spans	3	32 - Appr Roadway Width	24.9	42B - Service Type Under	5
46 - Num Apprs Spans	0	32A/B - Ap Pvt Type/Width	4 25	47L - Left Horizontal Clear	
48 - Max Span Length	56.1	42A - Service Type On	5	47R - Right Horizontal Clear	
49 - Structure Length 50A - Width Left Curb/SW	168 11.2	47L - Left Horizontal Clear	0.0	54A - Left Feature	
50B - Width Right Curb/SW	0	47R - Right Horizontal Clea		54B - Left Underclearance	99 99
33 - Median	1	53 - Min Vert Clr Ov Deck	99 99	54C - Right Feature	00 100
51 - Width Curb to Curb	25.9	100 - STRAHNET 102 - Traffic Direct	0	54D - Right Clearance Under Clearance Year	99 99
52 - Width Out to Out	41	102 - Traille Direct	5	55A - Reference Feature	N
112 - NBIS Length	Υ	110 - Truck Network	0	55B - Right Horiz Clearance	0
Inspection Data	а	114 - Future ADT	12950	56 - Left Horiz Clearance	0
90 - Inspection Date	10/20/2022	115 - Year Future ADT	2035	100 - STRAHNET	
91 - Inspection Freq	24	Freeway	0	102 - Traffic Direct	
92A - Frac Crit Req/Freq	N	Structure Ap	praisal	109 - Truck %	
93A - Frac Crit Insp Date	N	36A - Bridge Railing	1	110 - Truck Network 114 - Future ADT	
92B - Und Water Req/Freq 93B - Und Water Insp Date	N	36B - Rail Transition	1	115 - Year Future ADT	
92C - Oth Spec Insp Req/Freq	N	36C - Approach Rail	1	Freeway	
93C - Oth Spec Insp Date		36D - Rail Termination	1	Proposed Improve	mants
92D - Fatigue Req/Freq	N	67 - Structure Evaluation 68 - Deck Geometry	6 2	75 - Type of Work	35 1
93D - Fatigue Insp Date		69 - Underclearance	N	76 - Length of Improvement	168
176A - Und Water Insp Method	1	71 - Waterway Adequacy	8	94 - Bridge Cost	16
58 - Deck Rating	7 7 N	72 - Approach Alignment	8	95 - Roadway Cost	0
58A/B - Deck Surface/Bottom 59 - Superstructure Rating	6 IN	103 - Temporary Structure		96 - Total Cost	16
59A - Paint Rating	N	113 - Scour Criticality	5	97 - Year of Cost Estimate	2013
60 - Substructure Rating	7	Miscelland	eous	Load Rating and Po	osting
61 - Channel Rating	7	37 - Historical Significance	5	31 - Design Load	9
62 - Culvert Rating	N	98A - Border Bridge State		41 - Open, Posted, Closed	A
Navigation Dat	a	98B - Border Bridge %		63 - Fed Oper Rtg Method	6
38 - Navigation Control	0	101 - Parallel Structure EPA ID	L	64F - Fed Oper Rtg Load	2.98
39 - Vertical Clearance	0	Stay in Place Forms		64MA - Mich Oper Rtg Method 64MB - Mich Oper Rtg	1.85
40 - Horizontal Clearance	0	143 - Pin & Hanger Code	1	64MC - Mich Oper Truck	17
111 - Pier Protection		148 - No. of Pin & Hangers		65 - Inv Rtg Method	6
116 - Lift Brdg Vert Clear				66 - Inventory Load	1.79
				70 - Posting	5
				141 - Posted Loading	
				193 - Overload Class	

STR 11070	SAFETY INSPECTION REPO	ORT - AASHTO ELEMEN	TS
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing

No inspections available for bridge key 814021200124B01

STR 11070	WORK RECOM	MENDATIONS		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing	

WORK RECOMMENDATIONS			ABO5
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Pedro Trana	DLZ Michigan, Inc.	24	10/20/2022
RECOMMENDATIONS & ACTION	N ITEMS		
Recommendation Type	Priority	Description	
Brush Cut	М	Remove trees and vegetation at abutm sidewalks.	nents and over approach

STR 11070	SCOUR CRITICAL BR	IDGE ACTION PLAN	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing

No plan available for bridge key 814021200124B01

STR 11070	LOAD RATING A	ASSUMPTIONS	
acility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature Teature	Length / Width / Spans	Owner	
IURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
ocation	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
Jniversity(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing
Rating Considers Field Condition Deterioration: Jone that impacts capacity	on of Members: Yes	Inspection Date: 10/	20/2022
one that impacts capacity			
Most Recent Year Construct / R	econstruct / Overlay: 2021		
History of Work Impacting Load	l Rating:		
	21; however, increase in dead load o	on structure is negligible (thin	overlay).
	5 Prestressed Concrete	Doom for the	i Beam f'c / fb: 5.0 ksi
Superstructure Component:		Beam fy: ks	
Composite:	Yes Number of Beams	: 13 Shop Draw	vings Verified: No
Beam Size(s) & Names (each span):	(13) 27" deep x 36" wide; 3 spans		
Deck: Thickness (in.):	6.0 Fy/f'c: 60.0	/ 4.0 ksi Dec	k Design Load > H15: Yes
Vearing Surface: Mat'l:	Concrete Th	ickness (in.): 6.0	Unit Weight (pcf.): 150.0
	LEFT	CENTER	RIGHT
	LLI I		
Barrier: Type / Weight (plf.):		Barrier Type 5 + / 500.0	Barrier Type 5 / 500.0
,		Barrier Type 5 + / 500.0 /	Barrier Type 5 / 500.0 11.92 / 12.0
Sidewalk: Width / Thick (in.):	Bike Railing / 128.0 11.92 / 12.0	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.):	Bike Railing / 128.0	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	
Barrier: Type / Weight (plf.): Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	• •
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	• •
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads:	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0 /	
Sidewalk: Width / Thick (in.): Clear Roadway (ft.): Additional Loads: 1600 plf for 12' sidewalk; 574 lb in	Bike Railing / 128.0 11.92 / 12.0 26.0 Internal diaphragms, 5 per span.	Barrier Type 5 + / 500.0	

Analyzed By: DLZ Date: 11/08/2018

Modified by: TRANAP8100 on 03/21/2023 Printed on 03/21/2023 Page 1 of 1

STR 11070 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionFULLER ROAD (WB)42.2871 / -83.7254814021200124B01Fair Condition(6)

Feature Length / Width / Spans Owner

HURON RIVER 168 / 41 / 3 City: ANN ARBOR(0212)

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.5 MI EAST OF WALL ST1994 / / 2021Brighton(3)A Open, no restriction(A)Region / CountyMaterial / DesignLast NBI InspectionScour Evaluation

University(6) / Washtenaw(81) 5 Prestressed Concrete / 05 10/20/2022 / ABO5 5 Stable w/in footing Box Bm/Gird- Multiple

Compliance Issue:NoneCompliance Verified:NoAnalysis Program:ConSpanAnalysis Program Version:10.00.01.20

Rating Considers Field Condition of Members: Yes Inspection Date: 10/20/2022

Controlling component and failure mode:

Span 1, interior beam, positive flexure

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.98

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.85 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.79

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more
Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

 Analyzed By:
 DLZ
 Date:
 11/08/2018

 Checked By:
 DLZ
 Date:
 11/15/2018

STR 11070	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing

No inspections available for bridge key 814021200124B01

STR 11070	OUTSTAND		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD (WB)	42.2871 / -83.7254	814021200124B01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
HURON RIVER	168 / 41 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.5 MI EAST OF WALL ST	1994 / / / 2021	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	5 Prestressed Concrete / 05 Box Bm/Gird- Multiple	10/20/2022 / ABO5	5 Stable w/in footing

WORK RECOMMENDATIONS

OTHER

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Brush Cut

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Remove trees and vegetation at abutments and over approach sidewalks. (Pedro Trana 03/21/2023)

STR 11069	BRIDGE SAFETY INS	SPECTION REPORT		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway	

NBI INSPECTION			AXTJ
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/09/2023

GENERAL NOTES

Rehab project completed in late summer 2015. Visual inspection without the use of the MDOT Reach-all or Amtrak Flagging.

DECK				
	10/19	10/21	10/23	
1. Surface (SIA-58A)	7	7	6	Concrete overlay placed on entire deck surface in summer 2015. Some minor delaminations and diagonal cracking along the west reference line. Map cracking is present throughout, worse at the east end. Delamination and cracking in center lane at east expansion joint. Transverse and diagonal hairline cracks in acute corners at ends of deck. Three, 3 inch dia. spall in EB outside lane, center span. (10/23) Concrete overlay placed on entire deck surface in summer 2015. Some minor delaminations and diagonal cracking along the west reference line. Map cracking along the east expansion joint, in the two WB lanes. Delamination and cracking in center lane at east expansion joint. Transverse and diagonal hairline cracks in acute corners at ends of deck. One, 3 inch dia. spall in EB outside lane, center span. (10/21) Concrete overlay placed on entire deck surface in summer 2015. Some small delaminations along the west reference line. Two areas of map cracking in the center span, near center of roadway; 1 near west end, 1 approx. midspan. Transverse and diagonal hairline cracks in acute corners at ends of deck. One, 3 inch dia spall in EB outside lane, center span. (10/19)
2. Expansion Joints	7	7	7	Expansion joint placed on deck and sidewalks in 2015 above west set of pin and hangers. Minor dirt and debris along the joint. The joint had standing water. (10/23) Expansion joint placed on deck and sidewalks in 2015 above west set of pin and hangers. Minor dirt and debris along the joint. (10/21) Expansion joint placed on deck and sidewalks in 2015 above west set of pin and hangers. (10/19)
3. Other Joints	7	7	6	Joints placed at east set of pin and hangers in 2015 and at ends of bridge. Some joint material missing at west and east joints at HMA/concrete deck location. (10/23) Joints placed at east set of pin and hangers in 2015 and at ends of bridge. Some joint material missing at west and east joints at HMA/concrete deck location. (10/21) Joints placed at east set of pin and hangers in 2015 and at ends of bridge. Some joint material missing at west and east joints at HMA/concrete deck location. (10/19)
4. Railings	7	7	6	Vertical hairline cracks with some leaching spaced at 3' increments and at baseplate

Vertical hairline cracks with some leaching spaced at 3' increments and at baseplate connections in concrete portion. Map cracking throughout. Minor spalls, rusting, and leaching. Repairs made at steel rail end connections and at expansion and other joints. Steel railing portion was cleaned, hot-dip galvanized and coated in 2015. Some areas of patched concrete in north railing are beginning to crack. The patched steel rail end connections have spalled for 2/3 rails in the southeast endwall. (10/23) Vertical hairline cracks with some leaching spaced at 3' increments and at baseplate connections in concrete portion. Minor spalls, rusting, and leaching. Repairs made at steel rail end connections and at expansion and other joints. Steel railing portion was cleaned, hot-dip galvanized and coated in 2015. Some areas of patched concrete in north railing are beginning to crack. (10/21)

Vertical hairline cracks with some leaching spaced at 3' increments and at baseplate connections in concrete portion. Minor spalls, rusting, and leaching. Repairs made at steel rail end connections and at expansion and other joints. Steel railing portion was cleaned, hot-dip galvanized and coated in 2015. Some areas of patched concrete in north railing. (10/19)

STR 11069				BRIDGE SAFETY INS	SPECTION REPORT	
Facility			Latit	ude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD			42.28	358 / -83.7342	814021200123R01	Fair Condition(6)
Feature			Leng	th / Width / Spans	Owner	
NORFOLK SOUTH	IERN RR		261	/ 81.9 / 3	City: ANN ARBOR(0212)
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-2	3 BR		1982	/ / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County				rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Wa	shtenaw(8	1)	3 Ste	el / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway
5. Sidewalks or Curbs	5	5	5	joints. Map cracking prese sidewalks. Curb spalled w Sidewalk on both sides of joints. Map cracking prese north sidewalk. Curb spall Sidewalk on both sides of	ent. Ďiagonal cracking at sk vith exposed rebar in northv bridge. Portions of sidewal ent. Diagonal cracking at sk led with exposed rebar in n	lks and curbs have been repaired at the sewed ends. Longitudinal cracking in orthwest corner. (10/21) lks and curbs have been repaired at the
6. Deck Bottom Surface (SIA-58B)	6	6	6	with efflorescence. The no fixed joint on deck bottom Minor spalling, cracking, of with efflorescence. Some Transverse cracking in de Minor spalling, cracking, of	orth bays are worse than the near pier. Transverse crace concrete delaminations and minor leaking below fixed juck coping. (10/21) concrete delaminations and	some rusting at exposed reinforcement e south bays. Some minor leaking below king in deck coping. (10/23) some rusting at exposed reinforcement oint on deck bottom near pier. some rusting at exposed reinforcement oint on deck bottom near pier. (10/19)
7. Deck (SIA-58)	7	7	6	small concrete delamination throughout the bridge, wo Top surface received consmall concrete delamination the east expansion joint. (Top surface received concepts)	ons along west reference li rse at the east end. (10/23) crete overlay in 2015. Defe ons along west reference li 10/21) crete overlay in 2015. Defe ons along west reference lir	ects on bottom surface remain. Several ne. Map cracking in deck surface ects on bottom surface remain. Several ne. Map cracking in deck surface along ects on bottom surface remain. Several ne. Two areas of map cracking in center
8. Drainage				(10/23) (10/21) (10/19)		
SUPERSTRUCT	URE					
	10/19	10/21	10/23	Y		
9. Stringer (SIA-59)	7	7	7	The south fascia beam in adjacent to newly painted the abutments. Graffiti on Beam ends have been pa The south fascia beam in adjacent to newly painted (10/21) Beam ends have been pa The south fascia beam in	east span has a slight negareas, but no section loss. beams near abutments. (1 inted 5' each side of both seast span has a slight negareas, but no section loss. inted 5' each side of both seast span has a slight negareas span has a slight negareas span has a slight negareas.	ets of pin and hangers in center span. ative camber. Rust remains on beams The original paint system is failing near 10/23) ets of pin and hangers in center span. ative camber. Rust remains on beams Graffiti on beams near abutments. ets of pin and hangers in center span. ative camber. Rust remains on beams Graffiti on beams near abutments.
10. Paint (SIA-59A)	7	7	6	at pin and hangers. Zone beams 5S, 6S, and 7S at Primer coat is bubbling in ends. (10/21)	painting has small, localize east pin. Original paint syst locations where it has not f	flaked off away from painted beam ends d failures in beam 9S at west pin and tem is failing near abutments. (10/23) flaked off away from newly painted beam flaked off away from newly painted beam
11. Section Loss	2	2	2	Beam ends have been pa	inted and pitted areas remainted and pitted areas remainted and pitted areas remainted and pitted areas remainted	ain beneath paint. (10/21)
12. Bearings	7	7	6	Abutment bearings have r Rockers are in alignment	mild corrosion. (10/23) at piers. Bearings are close	e to the west pier face at Pier 2. e to the west pier face at Pier 2. (10/21) e to the west pier face at Pier 2. (10/19)
Modified by: SLAVII	KK1992 on	10/25/	2023	Printed on 1	· ·	Page 2 of 4

STR 11069				BRIDGE SAFETY INS	PECTION REPORT	
Facility			Latitu	ude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD			42.28	358 / -83.7342	814021200123R01	Fair Condition(6)
Feature			Leng	th / Width / Spans	Owner	
NORFOLK SOUTHER	RN RR		261 /	/ 81.9 / 3	City: ANN ARBOR(0212)	
Location			Built	/ Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 E	3R		1982	/ / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County			Mate	rial / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washt	enaw(8	1)	3 Ste	el / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway
SUBSTRUCTURE						
	10/19	10/21	10/23			
13. Abutments (SIA-60)	7	7	7	mostly been repaired. Mind at north end. Wingwalls hat backwall in SE quadrant. The hair hair cracks. Few smostly been repaired. Mind Wingwalls have minor hair quadrant. (10/21) Few hairline cracks. Few smostly been repaired. Mind	or separation between top on the minor hairline cracks. Grace immediately behind SE spalls in backwall typically or or separation between top on the cracks. Graffiti covered spalls in backwall typically or separation between top of separation between top of separation between top of the minor separation separation between top of the minor separation	n north and south sides of beams have if slope paving and west abutment face raffiti covered. Minor water leakage in wingwall. (10/23) in north and south sides of beams have if slope paving and abutment face. Minor water leakage in backwall in SE in north and south sides of beams have if slope paving and abutment face. Minor water leakage in backwall in SE in Minor water leakage in backwall in SE
14. Piers (SIA-60)	7	7	7	across top of crashwalls. 1 Small areas of exposed re No spalls noted; one delan of crashwalls. 12.6 sft dela of exposed rebar on top of No spalls noted; one delan of crashwalls. 12.6 sft dela	2.6 sft delamination at Pier bar on top of crashwalls. G ninated concrete area on eatmination at Pier 1 and 9.5 storashwalls. Graffiti covered ninated concrete area on eatminated.	ast pier cap. Hairline cracks across top ift delamination at Pier 2. Small areas d. (10/21) ast pier cap. Hairline cracks across top ift delamination at Pier 2. Small areas
15. Slope Protection	7	7	7	paving. Heavy vegetation a Minor separation between paving. (10/21)	and trees along edges of slo top of slope paving and wes	st abutment, north half. Steep slope per paving. (10/23) st abutment, north half. Steep slope st abutment, north half. Steep slope
16. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)		
17. Scour Inspection	N	N	N	(10/23) (10/21) (10/19)		
APPROACH						
	10/19	10/21	10/23			
18. Approach Pavement	7	7	7	pavement has settled in th Some open cracks and min in east approach. (10/21)	e north lanes. Sealed crack nor deterioration of west app	proach at reference line. Approach s in east approach. (10/23) proach at reference line. Sealed cracks ome sealed cracks and cracked surface
19. Approach Shoulders Sidewalks	8	7	7	condition. Crack in northea (10/23) Approach sidewalks adjace condition. Crack in northea (10/21)	ast quadrant. Minor settleme ent to bridge reference lines ast quadrant. Minor settleme	s has been replaced or is in good ent (<= 7/8") in northwest quadrant. s has been replaced or is in good ent (<= 7/8") in northwest quadrant. s has been replaced or is in good

STR 11069	BRIDGE SAFETY IN	SPECTION REPORT	
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway
20. Approach Slopes	(10/23) (10/21) (10/19)		
21. Utilities	side, but just off of the bri south bay are damaged i the slope paving. (10/23) Light pole on south side of bridge. Multiple conduits	idge. Multiple conduits prese n two locations near the wes of bridge. Light poles also pre present in north and south ba	plate. Light poles also present on north in north and south bays. Conduits in abutment and are dripping water onto esent on north side, but just off of the ays. (10/21) lultiple conduits in north and south bays.
22. Drainage Culverts	(10/23) (10/21) (10/19)		

\sim	8 3 –			
IVII TO X	_	1	NEO	uu

Guard Rail		Other Items	
<u>Item</u>	Rating	<u>Item</u>	Rating
36A. Bridge Railings	0	71. Water Adequacy	N
36B. Transitions	0	72. Approach Alignment	8
36C. Approach Guardrail	0	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	0	High Load Hit (M)	No
		Special Insp. Equipment	
		Underwater Insp. Method	0
False Decking (Timber) Removed t	o Complete Inspection	N/A - No False Decking	

alse Decking (Timber) Nemoved to Complete inspection

Critical Feature Inspections (SIA-92)

Freq Date

92A. Fracture Critical92B. Underwater92C. Other Special92D. Fatigue Sensitive

STR 11069 STRUCTURE INVENTORY AND APPRAISAL **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition FULLER ROAD** 42.2858 / -83.7342 814021200123R01 Fair Condition(6) Length / Width / Spans **Feature** Owner NORFOLK SOUTHERN RR 261 / 81.9 / 3 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **Operational Status** 0.75 MI E OF US-23 BR 1982 / / 1982 / 2015 Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/09/2023 / AXTJ N Not Over Waterway **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 1982 5C - Level of Service 0 5C - Level of Service 203 - Year Overlay 2015 5D - Route Number 00000 5D - Route Number 32 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 3 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 10R - Best 3m Unclr-Rt 5 10R - Best 3m Unclr-Rt 99 99 78 - Paint Type 2 PR Number PR Number 79 - Rail Type 3 Control Section Control Section 80 - Post Type 3 11 - Mile Point 0 11 - Mile Point 107 - Deck Type 12 - Base Highway Network 12 - Base Highway Network 1 0 13 - LRS Route-Subroute 108A - Wearing Surface 13 - LRS Route-Subroute 0000014303 08 3 108B - Membrane 19 - Detour Length 19 - Detour Length 0 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 60 29 - ADT 18600 29 - ADT 35 - Struct Flared N 30 - Year of ADT 2015 30 - Year of ADT 45 - Num Main Spans 3 32 - Appr Roadway Width 2 58.1 42B - Service Type Under 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 58.01 47L - Left Horizontal Clear 48 - Max Span Length 101 42A - Service Type On 47R - Right Horizontal Clear 5 49 - Structure Length 261 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 10.5 99 47R - Right Horizontal Clear 58.0 54B - Left Underclearance 99 50B - Width Right Curb/SW 10.5 53 - Min Vert Clr Ov Deck 99 54C - Right Feature 99 33 - Median 0 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 58 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 81.9 109 - Truck % 11 55A - Reference Feature R 112 - NBIS Length Υ 110 - Truck Network 55B - Right Horiz Clearance 0 16.1 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 20400 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/09/2023 2035 Freeway 102 - Traffic Direct 91 - Inspection Freq 24 0 92A - Frac Crit Reg/Freg Ν 109 - Truck % Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing 0 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition 0 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail 0 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination 0 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 7 92D - Fatigue Req/Freq Ν 68 - Deck Geometry 2 75 - Type of Work 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance 6 0 176A - Und Water Insp Method 0 71 - Waterway Adequacy Ν 94 - Bridge Cost 0 58 - Deck Rating 6 72 - Approach Alignment 95 - Roadway Cost 0 8 58A/B - Deck Surface/Bottom 6 6 103 - Temporary Structure 96 - Total Cost 0 59 - Superstructure Rating 7 113 - Scour Criticality Ν 97 - Year of Cost Estimate 2017 59A - Paint Rating 6 **Miscellaneous Load Rating and Posting** 60 - Substructure Rating 7 61 - Channel Rating 37 - Historical Significance 31 - Design Load Ν 5 9 62 - Culvert Rating 98A - Border Bridge State 41 - Open, Posted, Closed N Α 98B - Border Bridge % 0 63 - Fed Oper Rtg Method 6 **Navigation Data** 101 - Parallel Structure 64F - Fed Oper Rtg Load 2.88 Ν 38 - Navigation Control N **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 1.55 40 - Horizontal Clearance 0 143 - Pin & Hanger Code 64MC - Mich Oper Truck 17 111 - Pier Protection 148 - No. of Pin & Hangers 20 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.73 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 11069	SAFETY INSPECTION REPORT - AASHTO ELEMENTS				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)		
Feature	Length / Width / Spans	Owner			
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway		

No inspections available for bridge key 814021200123R01

STR 11069	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)
Feature	Length / Width / Spans	Owner	
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway

WORK RECOMMENDATIONS AXTJ					
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date		
Kyle Slavik	DLZ Michigan	24	10/09/2023		
RECOMMENDATIONS & ACTION	ITEMS				
Recommendation Type	Priority	Description			
Brush Cut	М	Clear brush/vegetation in all four quadra along SE wingwa	ants, remove tree growing all.		
Full Paint	M	Full paint when nee	eded.		

Facility Latitude / Longitude MDOT Structure ID Structure Condition FULLER ROAD 42.2858 / -83.7342 814021200123R01 Fair Condition(6) Feature Length / Width / Spans Owner NORFOLK SOUTHERN RR 261 / 81.9 / 3 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. TSC Operational Statu 0.75 MI E OF US-23 BR 1982 / / 1982 / 2015 Brighton(3) A Open, no restrict Region / County Material / Design Last NBI Inspection Scour Evaluation University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/09/2023 / AXTJ N Not Over Watery Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019 Deterioration: No impact Most Recent Year Construct / Reconstruct / Overlay: 2015 History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement the same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fill Composite: Yes Number of Beams: 10 Shop Drawings Verified: N Beam Size(s) & Names (each Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/15/16". Deck: Thickness (in.): 10.0 Fy / f'c: 60.0 / 3.0 ksi Deck Design Load > H	s cion(A) vay ement thicknesse b: ksi
Feature NORFOLK SOUTHERN RR 261 / 81.9 / 3 City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. TSC Operational Statu 0.75 MI E OF US-23 BR 1982 / 1982 / 2015 Brighton(3) A Open, no restrict Region / County Material / Design Last NBI Inspection Scour Evaluation University(6) / Washtenaw(81) Steel / 32 Multi Str Comp Deterioration: No impact Most Recent Year Construct / Reconstruct / Overlay: No impact	ement thicknesse
ACORFOLK SOUTHERN RR 261 / 81.9 / 3 City: ANN ARBOR(0212) Docation Built / Recon. / Paint / Ovly. TSC Operational Status A Open, no restrict Region / County Material / Design Last NBI Inspection Scour Evaluation N Not Over Water A Rating Considers Field Condition of Members: Wes Inspection Date: 10/16/2019 Deterioration: Whost Recent Year Construct / Reconstruct / Overlay: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement he same, so no net change in dead load. Composite: Yes Number of Beams: 10 Shop Drawings Verified: N All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/15/16".	ement thickness
Built / Recon. / Paint / Ovly. TSC Operational Statu 0.75 MI E OF US-23 BR 1982 / / 1982 / 2015 Brighton(3) A Open, no restrict Region / County Material / Design Last NBI Inspection Scour Evaluation University(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/09/2023 / AXTJ N Not Over Water Variating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019 Deterioration: Whost Recent Year Construct / Reconstruct / Overlay: 2015 History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement the same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / file Composite: Yes Number of Beams: 10 Shop Drawings Verified: Note of Beam Size(s) & Names (each Listory) & Names (e	ement thickness
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Region / County Material / Design Last NBI Inspection Scour Evaluation Joiversity(6) / Washtenaw(81) 3 Steel / 32 Multi Str Comp 10/09/2023 / AXTJ N Not Over Water Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019 Deterioration: Joi impact Most Recent Year Construct / Reconstruct / Overlay: 2015 History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement has same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fill Composite: Yes Number of Beams: 10 Shop Drawings Verified: N Beam Size(s) & Names (each All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/15/16".	ement thickness
Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019 Deterioration: No impact Most Recent Year Construct / Reconstruct / Overlay: 2015 History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement he same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / file Composite: Yes Number of Beams: 10 Shop Drawings Verified: Notes and Span Size(s) & Names (each Span 1: 70'-11 3/8"; Span 2: 100'-10 13/15/16".	ement thickness
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Most Recent Year Construct / Reconstruct / Overlay: 2015 History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement the same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fl Composite: Yes Number of Beams: 10 Shop Drawings Verified: N Beam Size(s) & Names (each span): All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/15/16".	b: ksi
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History of Work Impacting Load Rating: Concrete hydro-demolition and scarifying, along with placement of concrete overlay, on deck. The removal and placement the same, so no net change in dead load. Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fill Composite: Yes Number of Beams: 10 Shop Drawings Verified: N Beam Size(s) & Names (each span): All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/85 pan):	b: ksi
Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fl Composite: Yes Number of Beams: 10 Shop Drawings Verified: N Beam Size(s) & Names (each span): All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/85 and 15/16".	b: ksi
Superstructure Component: 3 Steel Beam fy: 50.0 ksi Beam f'c / fl Composite: Yes Number of Beams: 10 Shop Drawings Verified: N All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/8 pan):	
Composite: Yes Number of Beams: 10 Shop Drawings Verified: N All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/8 pan):	
All Spans: W36x182 with cover plates. Span 1: 70'-11 3/8"; Span 2: 100'-10 13/8; Span):	
span): 15/16".	0
Deck: Thickness (in.): 10.0 Fv / f'c: 60.0 / 3.0 ksi Deck Design Load > H	16"; Span 3: 89'
	15: Yes
Wearing Surface: Mat'l: Latex Conc Thickness (in.): 2.0 Unit Weight (po	cf.): 150.0
LEFT CENTER R	IGHT
Barrier: Type / Weight (plf.): Steel/Conc / 0.47 / Steel/Cor	nc / 0.47
Sidewalk: Width / Thick (in.): 140.5 / 10.0 / 140	.5 / 10.0
Clear Roadway (ft.): 58.0	
Additional Loads:	
Intermediate diaphragms: 0.19k; third points in Span 1; quarter points in Spans 2 and 3. End diaphragms: 0.95k. Con	nduits: 0.120 klf f
ducts, 0.012 klf for supports.	
Jnique Factors That Affect Capacity:	

Analyzed By: Carrie Hamel Date: 10/21/2019

Modified by: LESSENSM4950 on 12/13/2019 Printed on 11/16/2023 Page 1 of 1

STR 11069 LOAD RATING SUMMARY

FacilityLatitude / LongitudeMDOT Structure IDStructure ConditionFULLER ROAD42.2858 / -83.7342814021200123R01Fair Condition(6)

Feature Length / Width / Spans Owner

NORFOLK SOUTHERN RR 261 / 81.9 / 3 City: ANN ARBOR(0212)

LocationBuilt / Recon. / Paint / Ovly.TSCOperational Status0.75 MI E OF US-23 BR1982 / 1982 / 2015Brighton(3)A Open, no restriction(A)Region / CountyMaterial / DesignLast NBI InspectionScour Evaluation

Region / CountyMaterial / DesignLast NBI InspectionScour EvaluationUniversity(6) / Washtenaw(81)3 Steel / 32 Multi Str Comp10/09/2023 / AXTJN Not Over Waterway

Compliance Issue: None
Compliance Verified: No

Analysis Program: Merlin Dash

Analysis Program Version: 9.2

Rating Considers Field Condition of Members: Yes Inspection Date: 10/16/2019

Controlling component and failure mode:

Span 1, Service flexure, Interior beams, 30.96'

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings 2.88

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 1.55
MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.73

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

NBI Item 70 - Bridge Posting 5 5 - 100% or more
Posted By No Posting

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class

MDOT Item 193C - Overload Status

Analyzed By: Carrie Hamel Date: 10/21/2019
Checked By: Mark Lessens Date: 10/21/2019

STR 11069 REQUEST FOR ACTION				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway	

No inspections available for bridge key 814021200123R01

STR 11069 OUTSTANDING WORK				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
FULLER ROAD	42.2858 / -83.7342	814021200123R01	Fair Condition(6)	
Feature	Length / Width / Spans	Owner		
NORFOLK SOUTHERN RR	261 / 81.9 / 3	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.75 MI E OF US-23 BR	1982 / / 1982 / 2015	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	3 Steel / 32 Multi Str Comp	10/09/2023 / AXTJ	N Not Over Waterway	

Request For	Contact/User	Agency/Company Name	Estimated Quantity	Unit
OTHER				
Full paint when need	ded. (Kyle Slavik 11/1	6/2023)		
Comments				
Personnel Hours	Equipment		Con	nplete Date
Activity	Material	Other Material	Actual Quantity	Unit
SUPERSTRUCTUR Request For Full Paint	E Contact/User	Agency/Company Name	Estimated Quantity	Unit
WORK RECOMM	ENDATIONS			
WORK DECOMM	ENDATIONS			

OTHER Request For Brush Cut	Contact/User	Agency/Company Name	Estimated Quantity	Unit
Activity	Material	Other Material	Actual Quantity	Unit
Personnel Hours	Equipment		Con	nplete Date
Comments				

Clear brush/vegetation in all four quadrants, remove tree growing along SE wingwall. (Kyle Slavik 11/16/2023)

STR 13126 CULVERT SAFETY INSPECTION REPORT					
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition		
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)		
Feature	Length / Width / Spans	Owner			
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212)			
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status		
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)		
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation		
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway		

CULVERT INSPECTION			6IR5
Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Kyle Slavik	DLZ Michigan	24	10/11/2023

GENERAL NOTES

This structure is a buried tunnel between two (2) U of M buildings, passing beneath Huron Parkway. It consists of two interior sections one for people to pass between buildings, and a portion that is partitioned to carry several utility pipes between buildings. U of M staff remove several ceiling tiles to allow access to view the bottom side of the tunnel top slab. The load rating calcs consist of several BrR runs due to different concrete material strengths and different depth of earth cover/lane locations.

NBI INSPECTION

	10/19	10/21	10/23	
1. Culvert Rating (SIA-62)	7	7	7	(10/23) (10/21) (10/19)
2. Channel (SIA-61)	N	N	N	(10/23) (10/21) (10/19)
3. Scour	N	N	N	(10/23) (10/21) (10/19)

AASHTO	AASHTO ELEMENTS (English Units)						
Element	Element	Total	Unit	Good	Fair	Poor	Severe
Number	Name	Quantity		CS1	CS2	CS3	CS4
Culvert							
241	Re Conc Culvert	362	ft	356	6	0	0
				98%	2%	0%	0%

Some transverse cracks noted in the bottom of the top slab, above the ceiling in the main portion of the tunnel. These cracks are narrow/hairline and have been noted for several years, with no changes noted. There are also some similar cracks in the walls and ceiling of the mechanical chase portion of the tunnel. These cracks have also been noted in the past and no changes have taken place. There is no leaching or staining at any of the cracks. There is a small area of map cracking near the east end of the mechanical chase portion.

857	Culvert Joints	2	(EA)	0	0	2	0
				0%	0%	100%	0%

The culvert joints are each one (1) seal, approximately 2-3 inches wide, one at each end of the tunnel where it abuts the adjacent building. These joints have lost some of their adhesive to the concrete walls, but show no signs of leaking. The east joint has one tear in the interior wall of the mechanical chase portion. The west joint has two tears in the interior wall and one in the ceiling of the mechanical chase portion. The joint material is hanging from the ceiling where it is torn.

MISCELLANEOUS			
Guard Rail		Other Items	
<u>Item</u>	Rating	<u>Item</u>	Rating
36A. Bridge Railings	N	71. Water Adequacy	N
36B. Transitions	N	72. Approach Alignment	8
36C. Approach Guardrail	N	Special Insp. Equipment	9
36D. Approach Guardrail Ends	N	Underwater Insp. Method	0

RECOMMENDATIONS & ACTION ITEMS

STR 13126 CULVERT SAFETY INSPECTION REPORT				
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway	

Recommendation Type Priority Description

Joint Repair L Repair torn portions of the end joints.

STR 13126 STRUCTURE INVENTORY AND APPRAISAL **Facility** Latitude / Longitude **MDOT Structure ID Structure Condition HURON PARKWAY** 42.2954 / -83.7045 814021200276V01 Good Condition(7) Length / Width / Spans **Feature** Owner PEDESTRIAN/UTILITIES City: ANN ARBOR(0212) Location Built / Recon. / Paint / Ovly. **Operational Status** 0.25 MI S OF PLYMOUTH RD 2001 / Brighton(3) A Open, no restriction(A) Region / County Material / Design **Last NBI Inspection Scour Evaluation** University(6) / Washtenaw(81) 1 Concrete / 19 Culvert 10/11/2023 / 6IR5 N Not Over Waterway **Bridge History, Type, Materials** Route Carried By Structure(ON Record) **Route Under Structure (UNDER Record)** 27 - Year Built 5A - Record Type 5A - Record Type 106 - Year Reconstructed 5B - Route Signing 5B - Route Signing 202 - Year Painted 5C - Level of Service 5C - Level of Service 203 - Year Overlay 5D - Route Number 00000 5D - Route Number 5E - Direction Suffix 5E - Direction Suffix 43 - Main Span Bridge Type 19 0 44 - Appr Span Bridge Type 10L - Best 3m Unclr-Lt 0 10L - Best 3m Unclr-Lt 0 77 - Steel Type 0 10R - Best 3m Unclr-Rt 99 99 10R - Best 3m Unclr-Rt 78 - Paint Type 0 PR Number PR Number 79 - Rail Type 0 Control Section Control Section 80 - Post Type 11 - Mile Point 11 - Mile Point 107 - Deck Type N 12 - Base Highway Network 12 - Base Highway Network 0 108A - Wearing Surface 13 - LRS Route-Subroute 0000046039 04 13 - LRS Route-Subroute Ν 108B - Membrane 19 - Detour Length 19 - Detour Length Ν 2 20 - Toll Facility 20 - Toll Facility 108C - Deck Protection N 3 26 - Functional Class 26 - Functional Class 16 **Structure Dimensions** 28A - Lanes On 28B - Lanes Under 34 - Skew 24 29 - ADT 13428 29 - ADT 35 - Struct Flared Ν 30 - Year of ADT 2015 30 - Year of ADT 45 - Num Main Spans 2 32 - Appr Roadway Width 78.1 42B - Service Type Under 3 46 - Num Apprs Spans 0 32A/B - Ap Pvt Type/Width 77.99 47L - Left Horizontal Clear 48 - Max Span Length 29 42A - Service Type On 47R - Right Horizontal Clear 1 49 - Structure Length 29 47L - Left Horizontal Clear 0.0 54A - Left Feature 50A - Width Left Curb/SW 2 99 47R - Right Horizontal Clear 78.0 54B - Left Underclearance 99 50B - Width Right Curb/SW 53 - Min Vert Clr Ov Deck 99 99 54C - Right Feature 33 - Median 100 - STRAHNET 0 54D - Right Clearance 99 99 51 - Width Curb to Curb 0 102 - Traffic Direct Under Clearance Year 2 52 - Width Out to Out 109 - Truck % 55A - Reference Feature Ν 112 - NBIS Length 110 - Truck Network 0 55B - Right Horiz Clearance 0 **Inspection Data** 56 - Left Horiz Clearance 114 - Future ADT 14457 0 115 - Year Future ADT 100 - STRAHNET 90 - Inspection Date 10/11/2023 2035 102 - Traffic Direct Freeway 91 - Inspection Freq 24 0 109 - Truck % 92A - Frac Crit Reg/Freg Ν Structure Appraisal 110 - Truck Network 93A - Frac Crit Insp Date 36A - Bridge Railing Ν 92B - Und Water Reg/Freg 114 - Future ADT 36B - Rail Transition Ν 93B - Und Water Insp Date 115 - Year Future ADT 36C - Approach Rail Ν 92C - Oth Spec Insp Req/Freq Ν Freeway 36D - Rail Termination Ν 93C - Oth Spec Insp Date **Proposed Improvements** 67 - Structure Evaluation 92D - Fatigue Req/Freq Ν 68 - Deck Geometry Ν 75 - Type of Work 93D - Fatigue Insp Date 76 - Length of Improvement 69 - Underclearance Ν 176A - Und Water Insp Method 0 71 - Waterway Adequacy 94 - Bridge Cost Ν 58 - Deck Rating Ν 72 - Approach Alignment 95 - Roadway Cost 8 58A/B - Deck Surface/Bottom 103 - Temporary Structure 96 - Total Cost Ν 59 - Superstructure Rating 97 - Year of Cost Estimate 113 - Scour Criticality Ν 59A - Paint Rating **Miscellaneous Load Rating and Posting** 60 - Substructure Rating Ν 61 - Channel Rating 37 - Historical Significance 31 - Design Load Ν 5 5 62 - Culvert Rating 7 98A - Border Bridge State 41 - Open, Posted, Closed Α 98B - Border Bridge % 63 - Fed Oper Rtg Method 6 **Navigation Data** 2.77 101 - Parallel Structure Ν 64F - Fed Oper Rtg Load 38 - Navigation Control N **EPA ID** 64MA - Mich Oper Rtg Method 6 39 - Vertical Clearance 0 Stay in Place Forms 64MB - Mich Oper Rtg 2.77 40 - Horizontal Clearance 0 64MC - Mich Oper Truck 143 - Pin & Hanger Code 17 111 - Pier Protection 148 - No. of Pin & Hangers 65 - Inv Rtg Method 6 116 - Lift Brdg Vert Clear l٥ 66 - Inventory Load 1.66 70 - Posting 5 141 - Posted Loading

193 - Overload Class

STR 13126	SAFETY INSPECTION REPORT - AASHTO ELEMENTS			
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition	
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)	
Feature	Length / Width / Spans	Owner		
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212)		
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status	
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)	
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation	
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway	

NBI INSP	ECTION						6IR5
Inspector	Name	Agency / Company Nam	е	Insp.	Freq.	Insp. D	ate
Kyle Slavik		DLZ Michigan		24	4	10/11/2	023
AASHTO	ELEMENTS					(Engl	lish Units)
Element	Element	Total	Unit	Good	Fair	Poor	Severe
Number	Name	Quantity		CS1	CS2	CS3	CS4
Culvert							
241	Re Conc Culvert	362	ft	356	6	0	0
				98%	2%	0%	0%

Some transverse cracks noted in the bottom of the top slab, above the ceiling in the main portion of the tunnel. These cracks are narrow/hairline and have been noted for several years, with no changes noted. There are also some similar cracks in the walls and ceiling of the mechanical chase portion of the tunnel. These cracks have also been noted in the past and no changes have taken place. There is no leaching or staining at any of the cracks. There is a small area of map cracking near the east end of the mechanical chase portion.

857	Culvert Joints	2	(EA)	0	0	2	0
				0%	0%	100%	0%

The culvert joints are each one (1) seal, approximately 2-3 inches wide, one at each end of the tunnel where it abuts the adjacent building. These joints have lost some of their adhesive to the concrete walls, but show no signs of leaking. The east joint has one tear in the interior wall of the mechanical chase portion. The west joint has two tears in the interior wall and one in the ceiling of the mechanical chase portion. The joint material is hanging from the ceiling where it is torn.

STR 13126	WORK RECOM		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway

WORK RECOMMENDATIONS

6IR5

Latitude / Longitude 42.2954 / -83.7045		
42 2054 / ₋ 83 7045	MDOT Structure ID	Structure Condition
42.2334 / -03.7043	814021200276V01	Good Condition(7)
Length / Width / Spans	Owner	
29 /	City: ANN ARBOR(0212)	
Built / Recon. / Paint / Ov		Operational Status
		A Open, no restriction(A)
•		Scour Evaluation
1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway
of Members: Yes	Inspection Date: 10/	16/2019
construct / Overlay: 200	1	
Rating:		
Concrete	Beam fy: ks	i Beam f'c / fb: 3.5 ksi
lo Number of Be	eams: Shop Draw	vinas Verified: No
		ingo romiou.
lat slab construction. Span 1	l: 19'-8". Span 2: 9'-4". 	90 100
·	·	ck Design Load > H15: Yes
	·	
1.0 Fy/f'c: 6	60.0 / 3.5 ksi Dec	ck Design Load > H15: Yes
1.0 Fy/f'c : 6	60.0 / 3.5 ksi Dec Thickness (in.): 6.0	ck Design Load > H15: Yes Unit Weight (pcf.): 150.0
1.0 Fy/f'c : 6	60.0 / 3.5 ksi Dec Thickness (in.): 6.0	ck Design Load > H15: Yes Unit Weight (pcf.): 150.0
1.0 Fy/f'c : 6	60.0 / 3.5 ksi Dec Thickness (in.): 6.0	ck Design Load > H15: Yes Unit Weight (pcf.): 150.0
11.0 Fy / f'c: 6 HMA LEFT /	60.0 / 3.5 ksi Dec Thickness (in.): 6.0	ck Design Load > H15: Yes Unit Weight (pcf.): 150.0
	onstruct / Overlay: 200 ating: Concrete	Material / Design 1 Concrete / 19 Culvert of Members: Yes Inspection Date: 10/ construct / Overlay: 2001 cating: Concrete Beam fy: ks

Analyzed By: Carrie Hamel Date: 07/20/2018

STR 13126 LOAD RATING SUMMARY

Latitude / Longitude **Facility MDOT Structure ID Structure Condition HURON PARKWAY** 814021200276V01 Good Condition(7)

42.2954 / -83.7045

Length / Width / Spans **Feature** Owner

PEDESTRIAN/UTILITIES City: ANN ARBOR(0212)

Location Built / Recon. / Paint / Ovly. **TSC Operational Status** 0.25 MI S OF PLYMOUTH RD 2001 / Brighton(3) A Open, no restriction(A)

Region / County Material / Design **Last NBI Inspection** Scour Evaluation University(6) / Washtenaw(81) 1 Concrete / 19 Culvert 10/11/2023 / 6IR5 N Not Over Waterway

Compliance Issue: None **Compliance Verified:** No

Analysis Program: AASHTOWare Bridge Rating (BrR)

Analysis Program Version: 6.8.2.3002

Rating Considers Field Condition of Members: Yes **Inspection Date:** 10/16/2019

Controlling component and failure mode:

Shear in the exterior wall.

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method 6 LFR in Rating Factor

NBI Item 64F - Federal Operating Ratings

MDOT Item 64MA - Michigan Operating Method 6 LFR in Rating Factor

MDOT Item 64MB - Michigan Operating Rating 2.77 MDOT Item 64MC - Michigan Operating Truck 17

NBI Item 65 - Inventory Rating Method 6 LFR in Rating Factor

NBI Item 66 - Federal Inventory Rating 1.66

NBI Item 41 - Structure Open Posted Closed A A Open, no restriction

5 5 - 100% or more **NBI Item 70 - Bridge Posting**

No Posting Posted By

MDOT Item 141 - Posted Loading

MDOT Item 193A - Michigan Overload Class Α

MDOT Item 193C - Overload Status

Date: 07/20/2018 Analyzed By: Carrie Hamel Checked By: Mark Lessens Date: 07/24/2018

STR 13126	REQUEST F		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212))
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway

No inspections available for bridge key 814021200276V01

STR 13126	OUTSTAND		
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
HURON PARKWAY	42.2954 / -83.7045	814021200276V01	Good Condition(7)
Feature	Length / Width / Spans	Owner	
PEDESTRIAN/UTILITIES	29 /	City: ANN ARBOR(0212)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.25 MI S OF PLYMOUTH RD	2001 / / /	Brighton(3)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
University(6) / Washtenaw(81)	1 Concrete / 19 Culvert	10/11/2023 / 6IR5	N Not Over Waterway

1110 517		
WADE	DECOMMENIA	LIUVIG
WURK	RECOMMENDA'	

JOINTS

Request For Contact/User Agency/Company Name Estimated Quantity Unit

Joint Repair

Activity Material Other Material Actual Quantity Unit

Personnel Hours Equipment Complete Date

Comments

Repair torn portions of the end joints. (Kyle Slavik 10/26/2023)