


MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 4532

BRIDGE SAFETY INSPECTION REPORT

Facility MILL STREET	Latitude / Longitude 42.11 / -84.2457	MDOT Structure ID 384093200038B01	Structure Condition Fair Condition(5)	
Feature SO BRANCH RAISIN RIVER	Length / Width / Spans 34.8 / 25.6 / 3	Owner City: BROOKLYN(0932)		
Location 0.10 MI E OF M-50	Built / Recon. / Paint / Ovly. 1925 / 1984 / /	TSC Jackson(15)	Operational Status P Posted for load(17NNNN)	
Region / County University(6) / Jackson(38)	Material / Design 8 Masonry / 11 Arch- Deck, Filled Sp	Last NBI Inspection 05/11/2021 / UIYE	Scour Evaluation 5 Stable w/in footing	

NBI INSPECTION

UIYE

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Ryan Lefere	Great Lakes Engineering Group, LLC	4	05/11/2021

GENERAL NOTES

Need advance posting sign east of bridge to allow traffic to detour.
 Factory in SE quad being converted to restaurant, bar, & retail - traffic and pedestrian traffic projected to increase. Posted at 17 tons.
 Downstream end of arch repairs completed 2014.
 5/11/2021 inspection is to assess condition of structure after vehicular impact into south railing. Adjusted inspection frequency to reset back on previous cycle.

Weight limit signs in place on both ends of bridge	YES
Weight limit shown on signs at bridge	17_N_N
Required advance warning weight limit signs in place	NO

DECK


11/17 09/19 05/21

	11/17	09/19	05/21	
1. Surface (SIA-58A)	5	5	5	HMA surface. Partially sealed block cracks up to 1/4" wide throughout surface. Open map cracking and 1/4" longitudinal cracks along eastbound lane. Other isolated open transverse, longitudinal, diagonal cracking. Tire rutting. (05/21) Large block 1/16" to 1/4" cracking entire surface with shallow rut along centerline - somewhat undulating. (09/19) Large block 1/16" to 1/4" cracking entire surface with shallow spalls along centerline. (11/17)
2. Expansion Joints	N	N	N	(05/21) (09/19) (11/17)
3. Other Joints	N	N	N	(05/21) Paved over with several 1/16" transv cracks full width near ref lines. (09/19) Paved over with several 1/16" transv cracks full width near ref lines. (11/17)
4. Railings	7	7	7	Short height railings. Grouted stone headwalls with concrete cap act as railings. Shallow spall (<1 Sft) in SW as result of vehicular impact. Shallow spall in NW, top of wall. Open (1/16") cracks in mortar, more prevalent in the SE, both sides. (05/21) 2"x4"x14" spall W end S rail top. A few scattered short 1/16" cracks in mortar. A couple shallow spalls on top of rail. NE & SW approach rail moderate corrosion and not attached to bridge. (09/19) A few scattered short 1/16" cracks in mortar. A couple shallow spalls on top of rail. NE & SW approach rail moderate corrosion and not attached to bridge. (11/17)
5. Sidewalks or Curbs	N	N	N	(05/21) (09/19) (11/17)
6. Deck Bottom Surface (SIA-58B)	N	N	N	(05/21) (09/19) (11/17)
7. Deck (SIA-58)	N	N	N	HMA over earth fill. (05/21) HMA over earth fill. (09/19) HMA over earth fill. (11/17)
8. Drainage				Off in approaches. (05/21) Good. (09/19) Good. (11/17)

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SUPERSTRUCTURE

11/17 09/19 05/21

9. Stringer (SIA-59)	5	5	5	3 span concrete stone arch. Walls and soffit previously patched. Span 1w: south end, shallow spalls with open cracks in soffit/walls with leaking stains; 1/8" vertical cracks in west wall/footing. Span 2w: north end, spalls with open cracks in soffit/walls with leaking stains; south end, open cracks with staining in soffit/walls; 1/16" vertical cracks in footings. Span 3w: 6"-8" deep spall (4'x3') with loose fill exposed along south end, west soffit/wall, previous patch material located in bottom of channel; 1/16" vertical cracks in footings; open 1/8" horizontal crack in bottom of east wall, south end, at footing interface. (05/21) Downstream both sides middle arch: 6" x 4" hole and additional spalls in linings. Spandrel walls good - a few scattered hairline to 1/8" cracks in grout, esp. inside near road surface. (09/19) Interior arch lining repair areas OK but many hairline to 1/16" cracks with rust staining. Numerous hairline to 1/8" cracks beyond repaired areas. (11/17)
10. Paint (SIA-59A)	N	N	N	(05/21) (09/19) (11/17)
11. Section Loss	N	N	N	(05/21) (09/19) (11/17)
12. Bearings	N	N	N	(05/21) (09/19) (11/17)

SUBSTRUCTURE

11/17 09/19 05/21

13. Abutments (SIA-60)	6	6	6	Abutments previously patched. Span 1w: south end, shallow spalls with open cracks in walls with leaking stains; 1/8" vertical cracks in west wall/footing. Span 3w: 1/16" vertical cracks in footings; open 1/8" horizontal crack in bottom of east wall, south end, at footing interface. (05/21) Shallow spalling SW corner footing + numerous hairline cracks. Split in NW wing top at 2/3 pt. Footings exhibit hairline to 1/16" vertical cracks with efflorescence at approx. 4' spacing. (09/19) NW wingwall mortar repaired. Footings exhibit hairline to 1/16" vertical cracks with efflorescence at approx. 4' spacing. (11/17)
14. Piers (SIA-60)	5	5	5	Walls previously patched. Span 1w: south end, shallow spalls with open cracks in walls with leaking stains. Span 2w: north end, spalls with open cracks in walls with leaking stains; south end, open cracks with staining in walls; 1/16" vertical cracks in footings. Span 3w: 6"-8" deep spall (4'x3') with loose fill exposed along south end, west wall, previous patch material located in bottom of channel; 1/16" vertical cracks in footings. (05/21) Footings exhibit small vertical cracks at approx. 4' spacing. Shallow spall and many hairline cracks E face of W pier under downstream end of barrel. (09/19) Footings exhibit small vertical cracks at approx. 4' spacing. Moderate to heavy conc delamination and spalling at east downstream footing face. (11/17)
15. Slope Protection	N	N	N	(05/21) (09/19) (11/17)

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16. Channel (SIA-61)	6	6	6	Flow south to north. Stone lined channel upstream, concrete spillway adjacent downstream. Steep banks downstream. Old Mill dam located upstream of bridge. Closed sluice gate with outlet downstream in tributary channel. (05/21) Stone lined channel upstream, concrete spillway adjacent downstream. Steep banks downstream. Old Mill dam located upstream of bridge. Closed sluice gate with outlet downstream in tributary channel. (09/19) Stone lined channel upstream, concrete spillway adjacent downstream. Steep banks downstream. Old Mill dam located upstream of bridge. Closed sluice gate with outlet downstream in tributary channel. Moderate loss of grout and large stones in NW slope in front of wingwall. (11/17)
17. Scour Inspection	7	8	8	No scour noted. Downstream outlet paved. (05/21) No scour noted. Downstream outlet paved. (09/19) Insignificant scour at upstream entrance. (11/17)

APPROACH

	11/17	09/19	05/21	
18. Approach Pavement	6	6	6	HMA patching in both approaches. Many random 1/8" cracks both approaches. Shallow spalling occurring CL of EB lane both approaches. (05/21) HMA patching in both approaches. Many random 1/8" cracks both approaches. Shallow spalling occurring CL of EB lane both approaches. HMA over earth fill. (09/19) Many random 1/8" cracks both approaches. Shallow spalling occurring CL of EB lane both approaches. HMA over earth fill. (11/17)
19. Approach Shoulders Sidewalks	6	6	6	Gravel/vegetated shoulder - narrow, slightly raised. (05/21) Gravel/vegetated shoulder - narrow, slightly raised. (09/19) Gravel/vegetated shoulder - narrow, slightly raised. (11/17)
20. Approach Slopes				Approach guardrail: NE & SW approach rail moderate corrosion and not attached to bridge. (05/21) Good - nothing noted. (09/19) Good. (11/17)
21. Utilities				Overhead electric+phone+others approx 27' N of CL Manhole approx 60' E of bridge in CL of WB lane. (05/21) Overhead electric+phone+others approx 27' N of CL Manhole approx 60' E of bridge in CL of WB lane. (09/19) Overhead electric+phone+others approx 27' N of CL Manhole approx 60' E of bridge in CL of WB lane. (11/17)
22. Drainage Culverts				(05/21) Good. SW drainage culvert repaired in 2009. (09/19) Good. SW drainage culvert repaired in 2009. (11/17)

MISCELLANEOUS

Guard Rail		Other Items	
Item	Rating	Item	Rating
36A. Bridge Railings	0	71. Water Adequacy	7
36B. Transitions	0	72. Approach Alignment	6
36C. Approach Guardrail	0	Temporary Support	0 No Temporary Supports
36D. Approach Guardrail Ends	0	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

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

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SUPPORTING IMAGES

UIYE 05/11/2021



Document Name: 11.JPG
 Category: Elevation
 Span Number:
 Comments: Looking south off structure



Document Name: 12.JPG
 Category: Elevation
 Span Number:
 Comments: Looking north off structure



Document Name: 20.JPG
 Category: Elevation
 Span Number:
 Comments: South




Document Name: 23.JPG
 Category: Elevation
 Span Number:
 Comments: South

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Document Name: 31.JPG
 Category: Elevation
 Span Number:
 Comments: North



Document Name: 1.JPG
 Category: Posting
 Span Number:
 Comments: East



Document Name: 2.JPG
 Category: Posting
 Span Number:
 Comments: Advanced, west



Document Name: 3.JPG
 Category: Posting
 Span Number:
 Comments: West

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Document Name: 14.JPG
 Category: Railing
 Span Number:
 Comments: South, open cracks in mortar starting in SW



Document Name: 15.JPG
 Category: Railing
 Span Number:
 Comments: South, impact damage in SW



Document Name: 16.JPG
 Category: Railing
 Span Number:
 Comments: South, top of rail looking east




Document Name: 17.JPG
 Category: Railing
 Span Number:
 Comments: South, no separation of railing at impact location.

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Document Name: 21.JPG
 Category: Railing
 Span Number:
 Comments: South, open crack in mortar in SE



Document Name: 22.JPG
 Category: Railing
 Span Number:
 Comments: South, open crack in mortar in SE



Document Name: 7.JPG
 Category: Railing
 Span Number:
 Comments: South



Document Name: 8.JPG
 Category: Railing
 Span Number:
 Comments: North

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Document Name: 10.JPG
 Category: Deck
 Span Number:
 Comments: Deck surface, eastbound lane, open cracks



Document Name: 4.JPG
 Category: Deck
 Span Number:
 Comments: Looking west, closed eastbound lane



Document Name: 9.JPG
 Category: Deck
 Span Number:
 Comments: HMA surface



Document Name: 5.JPG
 Category: Joints
 Span Number:
 Comments: West reference line

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Document Name: 6.JPG
 Category: Joints
 Span Number:
 Comments: East reference line



Document Name: 24.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, arch, looking north



Document Name: 25.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, pier 1w, west face, looking north




Document Name: 26.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, west abut, looking north

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Document Name: 27.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, soffit, looking north



Document Name: 28.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, soffit, SE corner, incipient/spalling with open cracks



Document Name: 29.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 1w, west abut, 1/8" open crack in wall/footing




Document Name: 30.JPG
 Category: Superstructure
 Span Number:
 Comments: Typical cracking in arch

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Document Name: 32.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, pier 1w, north end, east face, open spalls/cracking



Document Name: 33.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, pier 1w, north end, open spalls/cracking



Document Name: 34.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, typical 1/16" cracks in wall




Document Name: 35.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, typical 1/16" cracks in wall

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Document Name: 37.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, arch, looking south



Document Name: 38.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, pier 1w, east face



Document Name: 39.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, pier 1w, east face




Document Name: 40.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, soffit, looking south

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Document Name: 41.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 2w, soffit, south end, open cracks



Document Name: 42.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, arch, looking north



Document Name: 43.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, east abut, looking north




Document Name: 44.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, pier 2w, looking north

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Document Name: 46.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, pier 2w, south end, spall in soffit



Document Name: 47.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, pier 2w, south end, spall in soffit



Document Name: 48.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, pier 2w, south end, spall in soffit



Document Name: 50.JPG
 Category: Superstructure
 Span Number:
 Comments: Span 3w, east abut, south end, 1/8" open crack

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STRUCTURE INVENTORY AND APPRAISAL

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Bridge History, Type, Materials	
27 - Year Built	1925
106 - Year Reconstructed	1984
202 - Year Painted	
203 - Year Overlay	
43 - Main Span Bridge Type	8 11
44 - Appr Span Bridge Type	
77 - Steel Type	0
78 - Paint Type	0
79 - Rail Type	9
80 - Post Type	
107 - Deck Type	N
108A - Wearing Surface	6
108B - Membrane	N
108C - Deck Protection	N

Structure Dimensions	
34 - Skew	25
35 - Struct Flared	N
45 - Num Main Spans	3
46 - Num Apprs Spans	0
48 - Max Span Length	7.9
49 - Structure Length	34.8
50A - Width Left Curb/SW	0
50B - Width Right Curb/SW	0
33 - Median	0
51 - Width Curb to Curb	22
52 - Width Out to Out	25.6
112 - NBIS Length	Y

Inspection Data	
90 - Inspection Date	05/11/2021
91 - Inspection Freq	4
92A - Frac Crit Req/Freq	N
93A - Frac Crit Insp Date	
92B - Und Water Req/Freq	N
93B - Und Water Insp Date	
92C - Oth Spec Insp Req/Freq	N
93C - Oth Spec Insp Date	
92D - Fatigue Req/Freq	N
93D - Fatigue Insp Date	
176A - Und Water Insp Method	1
58 - Deck Rating	N
58A/B - Deck Surface/Bottom	5 N
59 - Superstructure Rating	5
59A - Paint Rating	N
60 - Substructure Rating	5
61 - Channel Rating	6
62 - Culvert Rating	N

Navigation Data	
38 - Navigation Control	0
39 - Vertical Clearance	0
40 - Horizontal Clearance	0
111 - Pier Protection	
116 - Lift Brgd Vert Clear	

Route Carried By Structure(ON Record)	
5A - Record Type	1
5B - Route Signing	5
5C - Level of Service	0
5D - Route Number	01404
5E - Direction Suffix	0
10L - Best 3m Unclr-Lt	0 0
10R - Best 3m Unclr-Rt	99 99
PR Number	
Control Section	
11 - Mile Point	0
12 - Base Highway Network	0
13 - LRS Route-Subroute	0000009013 05
19 - Detour Length	9
20 - Toll Facility	3
26 - Functional Class	08
28A - Lanes On	2
29 - ADT	600
30 - Year of ADT	1986
32 - Appr Roadway Width	27.9
32A/B - Ap Pvt Type/Width	4 27.99
42A - Service Type On	1
47L - Left Horizontal Clear	0.0
47R - Right Horizontal Clear	22.3
53 - Min Vert Clr Ov Deck	99 99
100 - STRAHNET	0
102 - Traffic Direct	2
109 - Truck %	10
110 - Truck Network	0
114 - Future ADT	1100
115 - Year Future ADT	2010
Freeway	0

Structure Appraisal	
36A - Bridge Railing	0
36B - Rail Transition	0
36C - Approach Rail	0
36D - Rail Termination	0
67 - Structure Evaluation	5
68 - Deck Geometry	4
69 - Underclearance	N
71 - Waterway Adequacy	7
72 - Approach Alignment	6
103 - Temporary Structure	
113 - Scour Criticality	5

Miscellaneous	
37 - Historical Significance	1
98A - Border Bridge State	
98B - Border Bridge %	
101 - Parallel Structure	N
EPA ID	
Stay in Place Forms	
143 - Pin & Hanger Code	1
148 - No. of Pin & Hangers	

Route Under Structure (UNDER Record)	
5A - Record Type	
5B - Route Signing	
5C - Level of Service	
5D - Route Number	
5E - Direction Suffix	
10L - Best 3m Unclr-Lt	
10R - Best 3m Unclr-Rt	
PR Number	
Control Section	
11 - Mile Point	
12 - Base Highway Network	
13 - LRS Route-Subroute	
19 - Detour Length	
20 - Toll Facility	
26 - Functional Class	
28B - Lanes Under	
29 - ADT	
30 - Year of ADT	
42B - Service Type Under	5
47L - Left Horizontal Clear	
47R - Right Horizontal Clear	
54A - Left Feature	
54B - Left Underclearance	99 99
54C - Right Feature	
54D - Right Clearance	99 99
Under Clearance Year	
55A - Reference Feature	N
55B - Right Horiz Clearance	99.9
56 - Left Horiz Clearance	0
100 - STRAHNET	
102 - Traffic Direct	
109 - Truck %	
110 - Truck Network	
114 - Future ADT	
115 - Year Future ADT	
Freeway	


Proposed Improvements	
75 - Type of Work	
76 - Length of Improvement	
94 - Bridge Cost	
95 - Roadway Cost	
96 - Total Cost	
97 - Year of Cost Estimate	

Load Rating and Posting	
31 - Design Load	2
41 - Open, Posted, Closed	P
63 - Fed Oper Rtg Method	0
64F - Fed Oper Rtg Load	1.25
64MA - Mich Oper Rtg Method	0
64MB - Mich Oper Rtg	.75
64MC - Mich Oper Truck	2
65 - Inv Rtg Method	0
66 - Inventory Load	.75
70 - Posting	0
141 - Posted Loading	17NNNN
193 - Overload Class	

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 4532

WORK RECOMMENDATIONS

Facility MILL STREET	Latitude / Longitude 42.11 / -84.2457	MDOT Structure ID 384093200038B01	Structure Condition Fair Condition(5)	
Feature SO BRANCH RAISIN RIVER	Length / Width / Spans 34.8 / 25.6 / 3	Owner City: BROOKLYN(0932)		
Location 0.10 MI E OF M-50	Built / Recon. / Paint / Ovly. 1925 / 1984 / /	TSC Jackson(15)	Operational Status P Posted for load(17NNNN)	
Region / County University(6) / Jackson(38)	Material / Design 8 Masonry / 11 Arch- Deck, Filled Sp	Last NBI Inspection 05/11/2021 / UIYE	Scour Evaluation 5 Stable w/in footing	

WORK RECOMMENDATIONS

UIYE

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Ryan Lefere	Great Lakes Engineering Group, LLC	4	05/11/2021

RECOMMENDATIONS & ACTION ITEMS

Recommendation Type	Priority	Description
Deck Patching	H	Seal cracks HMA surface. Continue to monitor seal at shoulder/bridge rail interface for leakage into fill.
Super Repair	H	Repair spalls in soffit/walls.
Other	H	Install advance posting sign to the east of the structure.