

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 6938

BRIDGE SAFETY INSPECTION REPORT

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
N SAGINAW ROAD	43.7035 / -84.471	56200028000B020	Good Condition(7)
Feature	Length / Width	Owner	
BIG SALT RIVER	147.6 / 38.39	County: Midland(56)	
Location	Built / Recon. / Paint / Ovly.	TSC	Operational Status
0.15 MI NW OF 11 MILE RD	2001 / / /	Mt. Pleasant(4A)	A Open, no restriction(A)
Region / County	Material / Design	Last NBI Inspection	Scour Evaluation
Bay(4) / Midland(56)	5 Prestressed Concrete / 05 Multiple Box Beam	09/10/2015 / 1IMR	5 Stable w/in footing



NBI INSPECTION

1IMR

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Eric Rickert	Great Lakes Engineering Group	24	09/10/2015

GENERAL NOTES

Good

DECK

	09/11	09/13	09/15	
1. Surface (SIA-58A)	7	8	7	Healer/sealer on concrete deck, 50% worn off, hairline map cracks still visible mainly in span 1W. (09/15) New healer/sealer on concrete deck, hairline map cracks still visible. (09/13) West 20' of deck has hairline map cracking throughout both lanes. Hairline transverse cracks along north and southsides outside of tining every 1'-5'. West 1/2 of center span has map cracks spaced 1'-4'. (09/11)
2. Expansion Joints	N	8	8	Sealed joints, joint material intact. (09/15) Sealed joints, joint material intact. (09/13) (09/11)
3. Other Joints	8	N	N	(09/15) (09/13) Hot poured rubber in place (09/11)
4. Railings	8	8	8	Surface sealer on inside of rail, hairline shrinkage cracks on outside of railing (09/15) Surface sealer on inside of rail, hairline shrinkage cracks on outside of railing (09/13) New surface sealer on inside of rail, hairline shrinkage cracks on outside of railing (09/11)
5. Sidewalks or Curbs	N	N	N	(09/15) (09/13) (09/11)
6. Deck Bottom Surface (SIA-58B)	N	N	N	Side by side box beams (09/15) Side by side box beams (09/13) Side by side box beams (09/11)
7. Deck (SIA-58)	8	8	8	Healer/sealer on concrete deck wearing off, cracks visible. (09/15) New healer/sealer on concrete deck (09/13) Hairline cracks along edges of deck and at westend of spans 1W and 2W (09/11)
8. Drainage				(09/15) (09/13) (09/11)

SUPERSTRUCTURE

	09/11	09/13	09/15	
9. Stringer (SIA-59)	8	8	8	Side by side box beams. Leakage starting at center span grout joints. (09/15) Side by side box beams. Leakage starting at center span grout joints. (09/13) Side by side box beams. Leakage starting at center span grout joints. (09/11)
10. Paint (SIA-59A)	N	N	N	(09/15) (09/13) (09/11)

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11. Section Loss	N	N	N	(09/15) (09/13) (09/11)
12. Bearings	8	8	8	Elastomeric pads in place (09/15) Elastomeric pads in place (09/13) Elastomeric pads in place (09/11)

SUBSTRUCTURE

	09/11	09/13	09/15	
13. Abutments (SIA-60)	8	8	8	Concrete abutments, no visible cracks (09/15) Concrete abutments, no visible cracks (09/13) Concrete stub abutments, no visible cracks (09/11)
14. Piers (SIA-60)	7	7	7	Solid wall piers. East pier has 3 hairline vertical cracks in east face, south end and tight map cracks at north end. (09/15) Solid wall piers. East pier has 3 hairline vertical cracks in east face, south end and tight map cracks at north end. (09/13) Solid wall piers. East pier has 3 hairline vertical cracks in east face, southend. (09/11)
15. Slope Protection	8	8	8	Riprap in place (09/15) Riprap in place (09/13) Riprap in place (09/11)

APPROACH

	09/11	09/13	09/15	
16. Approach Pavement	7	7	7	50% of approach slabs covered with healer/sealer, transverse crack in east approach at reference line. (09/15) Approach slabs covered with healer/sealer, no visible cracks. (09/13) East approach slab has hairline shrinkage cracks at east and west ends. W approach slab has a diagonal crack in WBD shoulder and a longitudinal crack in the EBD and WBD lanes. (09/11)
17. Approach Shoulders Sidewalks	8	8	8	Concrete shoulders with approach curb and gutter (09/15) Concrete shoulders with approach curb and gutter (09/13) Concrete shoulders with approach curb and gutter (09/11)
18. Approach Slopes				Missing spacer block in SW and NW approach rail (09/15) Missing spacer block in SW and NW approach rail (09/13) Missing spacer block in SW and NW approach rail (09/11)
19. Utilities				Overhead north of bridge (09/15) Overhead north of bridge (09/13) None noted on bridge (09/11)
20. Channel (SIA-61)	8	8	8	Tall vegetated banks. (09/15) Tall vegetated banks. (09/13) Tall vegetated banks. (09/11)
21. Drainage Culverts				(09/15) (09/13) (09/11)


MISCELLANEOUS

Guard Rail		Other Items	
<u>Item</u>	<u>Rating</u>	<u>Item</u>	<u>Rating</u>
36A. Bridge Railings	1	71. Water Adequacy	8
36B. Transitions	1	72. Approach Alignment	8

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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)

	<u>Freq</u>	<u>Date</u>
92A. Fracture Critical		
92B. Underwater		
92C. Other Special		
92D. Fatigue Sensitive		

STRUCTURE INVENTORY AND APPRAISAL

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WORK RECOMMENDATIONS

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WORK RECOMMENDATIONS

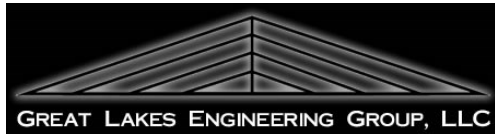
1IMR

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
Eric Rickert	Great Lakes Engineering Group	24	09/10/2015

CREW RECOMMENDATIONS

CONTRACT RECOMMENDATIONS

Recommendation Type	Priority	Description	Recommendation Type	Priority	Description
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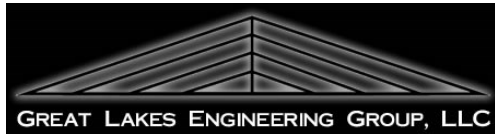
Midland County 2015 Bridge Inspections
N Saginaw Rd over Big Salt River
SN 6938
GLEG Project No. 1015-2-336
September 10, 2015

*Road and
bridge section
facing west*



*Healer/sealer
on concrete
deck*





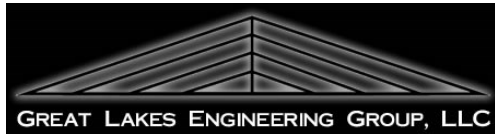
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Bridge railing



End joint





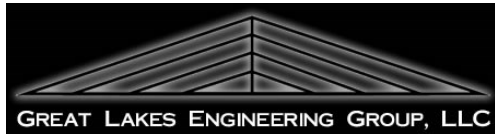
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*Upstream
channel section*



*Downstream
channel section*





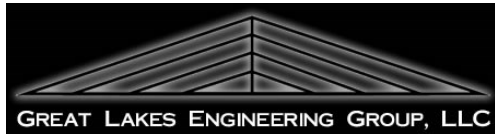
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*Hairline cracks
in surface*



*Hairline cracks
in surface*





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*Hairline cracks
in surface*



*North elevation
of bridge*

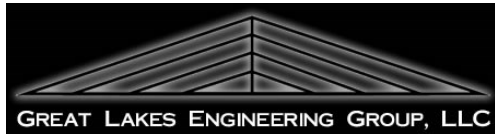


West abutment



West pier





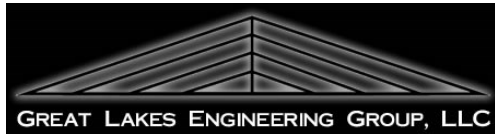
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East pier



*Bottom of box
beams*





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*North elevation
of bridge*



East abutment

