

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B01142021-15</b>	
<b>Date:</b> 5/11/2020	<b>Inspected By:</b> Terrance Coates	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-109 - LLOYD'S RIVER BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	103.3 m
<b>Year Built:</b>	1978	<b>Est: No</b>	<b>Overall Width:</b> 10.6 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 9.5 m
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 0 m
<b>Jurisdiction:</b>	Provincial		<b>Clearance to R.D. or N.W.L.:</b> 3 m
<b>Type of Structure:</b>	08 - Steel Bridge		<b>Max Depth of N.W.L.:</b> 0.7 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
<b>Roadway Surface:</b>	01 - Concrete		1            30.9    4            0
<b>Alignment Vertical:</b>	01 - Good		2            30.9    5            0
<b>Alignment Horizontal:</b>	01 - Good		3            30.9    6            0
<b>Restrictions:</b>	No		
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	G - Good
<b>Comments:</b>	Minor cracking in elastomeric bearing pads. Minor cracks in abutment walls.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P1 - Poor
<b>Comments:</b>	Deck drains damaged, several downspouts cracked off. Spalling on soffit around deck drains. Expansion joints damaged and leaking. Minor corrosion of W section steel members and lateral chevron bracing.		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair

**Approach Rail:** P1 - Poor

**Comments:** Small area of severe spalling along curb fascia. Potholes in the concrete deck with moderate corrosion to exposed reinforcement. Approach rail damaged, not structural. No end blocks. No rail on south bound lane bridge exit.

**HYDROLOGY**

<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	K - Known Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem

**Comments:**

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2021	<b>Replacement Year:</b>	2021
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0

**Recommendations:** Replace expansion joints. Replace approach guide rail. Replace deck drains. Repair fascia. Install end blocks. Repair deteriorated areas of deck. Remove winter sand build-up along curbs. Minor latex concrete repairs to abutment walls. Sandblast corrosion on steel girders and lateral chevron bracing.

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
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**Additional Observations:**

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

**PHOTO GUIDELINES:**

**Inspection Photos:**

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being B, P, or C
- Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**