

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09092021-6</b>	
<b>Date:</b> 2/26/2020	<b>Inspected By:</b> Chris Lyver	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-035 - BIG BARACHOIS BROOK BRIDGE, N HBR		
<b>Route:</b>	92	<b>Overall Length:</b>	25 m
<b>Year Built:</b>	1978	<b>Est: Yes</b>	<b>Overall Width:</b> 9.5 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 8.7 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0.4 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3.1 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0.7 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	01 - Concrete	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Vertical:</b>	01 - Good	1	14.7
<b>Alignment Horizontal:</b>	01 - Good	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	- Assumed cond. of buried/submerged reinf. conc. abut. footings - Bearings and seats appear to remain in fair condition (height restriction) - Med/wide map cracking with heavy efflor. deposits in wings; ext faces of ballast walls (under exp. joint locations (A.R.R.?) - Wide vertical cracks with light efflor. in abutment faces		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	- med. longitudinal cracks at ends; along bottom flanges of girders - Light delamin./spalling with medium rusting to exposed reinf. on some girders (insuff. cover) - Med. abrasion to exp joint and dams		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	I - Inapplicable

<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	I - Inapplicable
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Med./light trans./longit. cracks in exposed deck surface - Med spalling and abrasion to end blocks (snow clearing) - Light/med. scrapes/dents with some end caps missing on alumin. handrails - Narrow transverse cracks with light efflor deposits in deck soffit - Light delamination/spalling/abrasion to exposed deck surface - Severe alligator cracks in asphalt along exp joint dams		

**HYDROLOGY**

<b>Water Velocity:</b>	0.2 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Some loss of slope/rip-rap at 4 corners of structure - Numerous dips/bumps in asphalt on approaches		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2025	<b>Replacement Year:</b>	2035
<b>Antic. Rehab. Cost:</b>	\$75	<b>Replacement Cost:</b>	\$1300
<b>Recommendations:</b>	- Repair all conc. defects - Repair erosion at 4 corners of struct and install additional rip-rap - Resurface approaches on rte. 92 - Clean out exp. joint seals (maint.) - Install 4 new hazard markers (maint.)		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	unchanged from 2013 inspection		

**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 P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**