

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B05312018-6</b>	
<b>Date:</b> 2/22/2018	<b>Inspected By:</b> RH	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-042 - RED HEAD RIVER BRIDGE, N HBR-BRANCH		
<b>Route:</b>	92	<b>Overall Length:</b>	52.3 m
<b>Year Built:</b>	1974	<b>Est:</b> No	<b>Overall Width:</b> 9.5 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 8 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0.75 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	5.1 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	1 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	02 - Concrete Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	01 - Concrete	1	36.8
<b>Alignment Vertical:</b>	02 - Adequate	2	0
<b>Alignment Horizontal:</b>	02 - Adequate	3	0
<b>Restrictions:</b>	No	<b>Span No.:</b>	<b>Length</b>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	-Assumed condition of buried reinforces concrete north abutment footing. -Medium vertical cracks in abutment faces. -Numerous medium to wide map/alligator cracks to 4 wing walls. -Wide longitudinal cracks at tops of wing walls below curbs. -Narrow horizontal/vertical cracks in partially exposed south footing.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	- Narrow pattern cracks to ends of bottom flanges of both exterior girders. - Medium damage (vehicle impact) to 3 of 4 end blocks. - Medium spalling and exposed rebar on bottom of some girders. - Expansion joints that were replaced in 2013 rehab in fair condition.		
<b>DECK</b>			

<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	P - Poor	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Handrail - P (west side), P3 (east side). - Sections of concrete handrail on west side completely gone. - Wide cracks in some areas of deck soffit. - Some hazard markers are missing. - Very wide cracks and concrete missing in areas of deck fascia.		

**HYDROLOGY**

<b>Water Velocity:</b>	0.5 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 slope erosion and hydraulic rip-rap needs to be replaced.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2018	<b>Replacement Year:</b>	2024
<b>Antic. Rehab. Cost:</b>	\$60	<b>Replacement Cost:</b>	\$1800
<b>Recommendations:</b>	- Replace sections of concrete handrail that have broken off. - Clean out expansion joints and replace missing hazard markers.		

**OBSERVATIONS**

<b>Overall Condition:</b>	P - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- P (west concrete handrail) - F2 (rehabbed section) - F1 (remainder) - Remaining observation unchanged from previous inspection in 2016.		

**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**