

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08022021-2</b>	
<b>Date:</b> 5/6/2021	<b>Inspected By:</b> Butler	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b> 2-037 - NORTH HARBOUR RIVER BRIDGE - R210			
<b>BRIDGE PHOTOS</b>			
<div style="display: flex; justify-content: space-around;">   </div>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	U - Uninspectable
		<b>Bearing Seat:</b>	U - Uninspectable
<b>Comments:</b>	Concrete abutments and wingwalls. Minor concrete erosion of the footings. Some significant cracking with efflorescence at the abutment corners and wingwalls. A few small delamination's. Some squat in the bearing pads noted during a previous inspection. there is a buildup of debris on the abutments.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P1 - Poor
<b>Comments:</b>	7 AASHTO girders, some light cracks. Expansion joints are receiving excessive impact wear on the road surface due to approach settlement. Joints are leaking and have potholing around them. Girders 1,3,4,6 have efflorescence on them - appears to be caused from deck leakage. The bottom of girders 1,3,4,6,7 are stained, spalling with exposed rusting rebar.		
<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	Concrete deck with asphalt wearing surface. Minor raveling of asphalt along centreline joint. 4 rail aluminum hand rail with concrete end blocks, some impact damage to right rail. Guiderail is in poor condition and requires work. Abutment 2 and 2 right hazard marker missing. Efflorescence in multiple locations throughout the deck bottom indicating leakage through deck. Bottom of deck between girders 3 and 4 adjacent to diaphragm has spalls with evidence of leakage. Bridge is covered in sand.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>			

<b>REPLACEMENT/REHABILITATION</b>				
<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>		
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0	
<b>Recommendations:</b>	Replace bridge rail, structural and guiderail, hazard markers and ID signs. Replace expansion joints. Clean Deck. Repair deck and re-pave. repair and re-face abutments. Inspect and repair girders. Replace bearing pads.			
<b>OBSERVATIONS</b>				
<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No	
<b>Additional Observations:</b>				
<b>LEGEND:</b>				
<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.			
<b>PHOTO GUIDELINES:</b>				
<b>Inspection Photos:</b>				
Please provide photos using guidelines below:				
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being F3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>				
<b>INSPECTION PHOTOS</b>				

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.