

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08102021-3</b>	
<b>Date:</b> 3/10/2020	<b>Inspected By:</b> Chris Lyver	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-122 - SHIP COVE RIVER BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	39.5 m
<b>Year Built:</b>	1978	<b>Est: Yes</b>	<b>Overall Width:</b> 11.1 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 10.6 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0.3 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>	02 - Asphalt	1	26.9
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	P3 - Poor
<b>Comments:</b>	- Assumed condition of buried reinforced concrete abutment footings. - Medium vertical cracks in faces of abutments & ballast walls. - Severe spalling/disintegration to exterior northwest bearing seat. - Assumed condition of bearing pads (inaccessible due to height/flow: Styrofoam still in place). - Numerous medium alligator cracking with medium efflorescent deposits in 4 wingwalls (AAR?). - Medium spalling to exterior faces of ballast walls. - P3 Northwest bearings. - F2 remainder of bearings.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F1 - Fair
<b>Comments:</b>	- No end blocks. - Expansion joints paved over on deck (Possible leakage at northwest end). No chaulking in expansion joint gaps in curb fascias. - Medium delamination/spalling with medium rusting to exposed reinforcement along bottoms of girders near abutments (especially at northwest end). - Light delamination/spalling with medium rusting to exposed reinforcement on remaining girder areas (insufficient cover).		

<b>DECK</b>			
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	P1 - Poor
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	P1 - Poor
<b>Approach Rail:</b>	P1 - Poor		
<b>Comments:</b>	- Deck overall condition, P3 west curb fascia, F1 remainder. - Curbs overall condition, P1 west side, F1 east side. - Narrow transverse/longitudinal cracks in deck soffit. - Medium damage with decaying posts on aging approach/exit guiderail. - Minor scrapes, dents, & end caps missing on aluminum handrails. - Wide cracking with severe delamination/spalling with medium rusting to exposed reinforcement continues to west curb/deck/fascia/soffit, especially at the northwest expansion joint location. - Wide longitudinal crack near drip bead along east cantilevered deck soffit.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.4 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>	- Minor migration of rip-rap into channel at 4 corners of structures. - Medium slope erosion along northwest wingwall.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2020	<b>Replacement Year:</b>	2030
<b>Antic. Rehab. Cost:</b>	\$100000	<b>Replacement Cost:</b>	\$2000000
<b>Recommendations:</b>	- Repair all concrete defects, especially northwest bearing seat & west curb fascia. - Install new approach/exit guiderail complete with hazard markers. - Repair/replace damaged aluminum handrails. - Install extra rip-rap at structure corners. - In the interim, have maintenance install the hazard markers.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P1 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- P1 northwest bearing seat, west deck fascia and guiderail. F1 & F2 remainder. - Comments from previous inspections unchanged.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		<b>Category Definitions:</b>
			Maint. - Maintenance.
			Eng. - Engineering.
			Office - Bridge Office.
<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 P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			