

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B11172022-5</b>	
<b>Date:</b> 10/11/2022		<b>Inspected By:</b> M Dalton		<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
<b>Site:</b>		1-241 - HODGEWATER LINE OVERPASS (CBN BY-PASS) - R75			
<b>SUBSTRUCTURE</b>					
<b>Condition:</b>		P3 - Poor		<b>Bearings:</b>	
				I - Inapplicable	
				<b>Bearing Seat:</b>	
				I - Inapplicable	
<b>Comments:</b>		- All abutment corners have wide cracks which could lead to delamination . Rest of abutment in fair condition. - Wingwalls have wide and moderate cracking with efflorescence in construction joints. Narrow map cracking throughout. - Abutment and wingwall construction joints have wide cracking with efflorescence. - The Southeast abutment and wingwall joint has slight separation with wingwall being offset from the abutment by 25 mm.			
<b>SUPERSTRUCTURE</b>					
<b>Condition:</b>		F1 - Fair		<b>Expansion Joints:</b>	
				I - Inapplicable	
<b>Comments:</b>		- The deck soffit has two wide cracks with efflorescence on the North and South side near the haunch remainder is in fair condition.			
<b>DECK</b>					
<b>Condition:</b>		F1 - Fair		<b>Curbs:</b>	
				P - Poor	
<b>Hand Rail:</b>		P3 - Poor		<b>Roadway Condition:</b>	
				P3 - Poor	
<b>Approach Rail:</b>		F1 - Fair			
<b>Comments:</b>		- Asphalt is fair condition with small potholes next to the curbs. The Northwest approach has an issue with the grade resulting in a dip creating a bump. - The curbs and curb fascias are severely delaminated and spalled with exposed rebar on both sides. Southwest curb fascia is completely spalled from endblock to mid span. Curb and deck fascia have severe efflorescence and wide cracks. Concrete spalls from curbs on the side of the road. - The curb and deck construction joint is leaking with efflorescence. - Structure rail bolts in curbs are rusting from exposure to weather and salt, condition P3. - Guiderail in fair condition, connected to end blocks, has collision dampening posts and has no hazard markers. - Endblocks have moderate map cracking on entire surface area with minor efflorescence.			
<b>HYDROLOGY</b>					
<b>Water Velocity:</b>		n/a m/s		<b>Ice Problem:</b>	
				NA - Not Applicable	
<b>Water Depth:</b>		n/a m		<b>Scour Problem:</b>	
				NA - Not Applicable	
<b>Waterway:</b>		03 - Not Applicable		<b>Debris Problem:</b>	
				NA - Not Applicable	
<b>Comments:</b>					
<b>REPLACEMENT/REHABILITATION</b>					
<b>Next Rehab. Date:</b>		2024		<b>Replacement Year:</b>	
				2060	
<b>Antic. Rehab. Cost:</b>		\$200000		<b>Replacement Cost:</b>	
				\$1500000	
<b>Recommendations:</b>		- Replace curbs, endblocks, and structural rail within 3 years. Repair abutment corners the same time.			
<b>OBSERVATIONS</b>					
<b>Overall Condition:</b>		F1 - Fair		<b>Requires Further Inspection:</b>	
				No	
<b>Additional Observations:</b>		- Bridge overall in fair condition with P3 areas. - Steep slopes. - Busy road with high speeds.			