

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B06292022-1</b>
<b>Date:</b> 5/29/2022	<b>Inspected By:</b> Trevor Upshall	<b>Category:</b> Eng. - Engineering
<b>BRIDGE INFORMATION</b>		
<b>Site:</b> 1-061 - OLD BAY BULLS ROAD OVERPASS EAST - R		
<b>SUBSTRUCTURE</b>		
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b> P3 - Poor
		<b>Bearing Seat:</b> F2 - Fair
<b>Comments:</b>	Medium vertical cracks, medium map cracking with light efflorescence, and light spalling to SE abutment. Light spall with narrow map cracks to SW abutment. Medium to wide longitudinal/transverse cracks to bearing seat. Narrow to wide vertical cracks to abutment face beneath bearing seat. Medium spall with exposed rebar in pier cap. Wide vertical cracks with medium spalling and light corrosion to reinforcement to several interior west piers. Remainder of piers have narrow vertical/horizontal cracks. Settlement beneath the concrete paved slopes have created an uneven surface with wide transverse cracks. Spalled concrete fragments from girders and debris has accumulated on bearing seat. Moderate corrosion and scaling to all steel bevel plates. Bearings have light deformation.	
<b>SUPERSTRUCTURE</b>		
<b>Condition:</b>	P1 - Poor	<b>Expansion Joints:</b> P3 - Poor
<b>Comments:</b>	Wide vertical crack is visible in exterior girder end at SW corner. Medium to severe spalling with exposed rebar and severe delamination to bottom flange of girders at numerous locations. Medium delamination/spalling to bottom girder flanges near all bearings. Narrow to wide longitudinal cracks in top and bottom flanges and webs of all girders. More severe in exterior girders. West interior girder web has medium spalling with exposed rebar over bearing. Wide horizontal/longitudinal cracks with medium spalling to several diaphragms. Light abrasions and corrosion with narrow cracks to expansion joint dams.	
<b>DECK</b>		
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b> P3 - Poor
<b>Hand Rail:</b>	P3 - Poor	<b>Roadway Condition:</b> P3 - Poor
<b>Approach Rail:</b>	P3 - Poor	
<b>Comments:</b>	Medium delamination with medium longitudinal/ transverse cracks with light efflorescence throughout deck soffit. Medium spall with exposed rebar in deck soffit at SW corner. South exterior deck/curb fascia has numerous medium spalls with exposed reinforcement and wide horizontal/vertical cracks with severe delamination/spalling at SE corner near expansion joint. Severe delamination with narrow to wide longitudinal/ transverse cracks to top of south curb. Wide horizontal cracks to interior face of north curb. Light delamination/spalling with exposed rebar to cantilever soffit. Aluminum handrail posts bent and top rail completely missing at SW corner. Interior guiderail barrier separating structures are corroded with decaying wooden posts, medium dents/abrasions, and have significant debris buildup. Structure has no end blocks or hazard markers. Wide map cracking to jersey barrier median.	
<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>	2030
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Repair aluminum handrail, repair all delaminated/spalled concrete defects, replace guiderail barrier on new posts, clean debris in-between guiderail barrier, along curbs, and bearing seat. Install hazard markers.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P1 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Electrical conduit is no longer attached to east abutment face and laying across the sloped paving. Triple overhead lines running under east spans near pier cap.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.