

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B11182024-2	
Date: 11/11/2024		Inspected By: M Button / T Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-066 - COLLIERS HARBOUR BRIDGE - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	P3 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	Mild disintegration/spalling to all exterior faces/edges of bearing seats. Some areas have vegetation growth, F1 to P3. All wingwalls have light cracking with efflorescence. Southwest wingwall has wide cracks with efflorescence. North abutment has mild erosion to face of footing with light cracking throughout. South abutment has two locations where dirt/mud was likely against the forms during construction. One at the midpoint and the other is at the west end. Midpoint has moderate erosion, west has a small cavity with severe corrosion to reinforcement. All abutment exterior corners have narrow cracks with efflorescence. Strip bearings hanging down over abutment face on most double tees.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	P1 - Poor		
Comments:	Expansion gaps leaking. Caulking missing through curbs causing accelerated deterioration below. Northeast exterior double tee has exposed pre-stressing stands with one broken. Spall to double tee ~1.5m long. Southwest exterior double tee has a large spall ~1m long from the abutment. Widespread cracking and Second and third double tee in from the west side has a leak between pre-cast panel sections. These double tees have medium to wide longitudinal cracks with efflorescence, likely about to become spalls. Fifth double tee in from the east fascia has wide cracking from corroded pre-stress cables. Most double tees have small spalls exposing reinforcement due to low cover during construction. Deck soffit around deck drains have medium sized circumferential spalls with exposed reinforcement. Deck soffit of precast sections showing rebar grid in some locations.				
DECK					
Condition:	P1 - Poor	Curbs:	F1 - Fair		
Hand Rail:	P3 - Poor	Roadway Condition:	P1 - Poor		
Approach Rail:	I - Inapplicable				
Comments:	Cast in place deck assumed to be cracked due to leakage evidence below, P3. Curbs covered in gravels. Suspect mild deterioration but likely in fair condition. No approach/exit rail, no hazard markers. Concrete handrail has spalling in isolated locations with exposed rebar, P3. Asphalt has heavy cracking & potholes, P1. Upstream fascia has light weathering. Downstream fascia has light weathering with mild-narrow cracks. F1				
HYDROLOGY					
Water Velocity:	Fast m/s	Ice Problem:	P - Possible Problem		
Water Depth:	Deep m	Scour Problem:	P - Possible Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	Rip-rap missing on northeast abutment corners. - Erosion along northwest end/wing wall from deck runoff.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2030		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$3,500,000		

Recommendations:	Replace structure		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	Waterline or sewer line attached to upstream side of structure. Double tees to be monitored on future inspections until replacement is completed.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.