

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B03192026-1	
Date: 3/17/2026	Inspected By: T Upshall / M Button	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site: 1-089 - HEAVY TREE ROAD OVERPASS EAST - R2			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of buried concrete footings under strut legs. - All wingwalls have moderate scaling. Control joint to rear of frame legs open and leaking water from roadway. - West frame leg haunch has several hairline cracks with moderate efflorescence towards the mid-point of the structure. Face has medium efflorescent staining under the haunch cracks. Face covered in graffiti, F1. - West set of struts in fair condition with light hairline cracking and scaling. Southwest exterior strut has severe surface disintegration to the exterior corner, P3. No rust staining visible, F1. - East frame leg haunch has hairline cracks with very light efflorescence towards the northwest corner of the structure. Face covered in graffiti. - East set of struts in fair condition with light hairline cracking and scaling.		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- Barrier to deck construction joints leaking water on structure corners, P3. - Deck fascia has longitudinal cracks with light efflorescence over support struts. Local areas of medium scaling throughout, F1. - The northeast exterior corner of the deck has very severe disintegration (> 50% section loss in local area) exposing deck reinforcement with severe corrosion (> 10% section loss). All internal concrete visibly disintegrating inside the area. Surrounding concrete immediately to the west has moderate to severe disintegration with a delamination at the termination of defect, P1. - The northwest exterior corner of the deck has very severe disintegration (> 20% section loss in local area) exposing deck reinforcement with severe corrosion (> 10% section loss). All internal concrete visibly disintegrating inside the area, P3 to P1. - The southwest exterior corner of the deck has hairline map cracks with light efflorescence, F1. - The deck soffit at the connection to the southeast exterior strut has a small spall caused from low cover, P3. - South deck soffit exterior corner to the fascia at mid-span has two large spalls separated by a large delamination. Spalls expose reinforcement with severe corrosion, P1. - Deck soffit has numerous shallow spalls exposing reinforcement with moderate corrosion throughout. All spalls caused from low cover, F1 to P3. - Deck soffit adjacent to west frame leg has approximately eight dominate hairline cracks with moderate efflorescent stalactites. Severe rust stains surround many of the cracks. - Deck soffit adjacent to east frame leg has approximately two dominate hairline cracks with light to moderate efflorescent stalactites. A severe rust stain surrounds one of the cracks. Rust staining just starting/barely visible on the other. - No traditional expansion joints. Runoff from route 2 causing significant distress to deck corners.		
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Suspect widespread waterproofing issues from leachate visible below structure. - Structure rail is a dual functioning barrier and curb, consisting of a cast-in-place concrete barrier with one aluminum rail on posts. Concrete barrier has hairline, regularly spaced, damp vertical cracks throughout. Moderate to severe scaling along top of barrier. No defects to aluminum rail and posts. Curbs have local spalls to their exterior corners below their Michigan shoes. No reinforcement exposed in spalls. Hairline vertical cracks throughout roadside face with light abrasions, F1. - Guiderail not of type guiderail structures. Guiderail structure cannot be installed without wingwall replacement. Many post spacers rotated out of vertical position. Local areas of rot in several spacer blocks and posts. Both		

hazard markers in place. - No traditional end blocks. - Asphalt surface has some noticeable settlement on the approach/exit over the rear of each frame leg. Obvious previous patching within area. Area has medium to wide transverse pattern cracks.

HYDROLOGY

Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:	- Not applicable. Route 3 below. - Runoff from route 2 causing significant distress to deck corners.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$	Replacement Cost:	\$
Recommendations:	- Replace structure. - Deck fascia/soffit on the south exterior requires scaling over route 3.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Replace structure. - Significant concrete section loss to deck ends on structure exterior corners under the barrier. - Deck soffit leaching rust and efflorescent material near frame legs.		

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