

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02052025-2	
Date: 1/29/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-100 - RYAN'S BROOK BRIDGE - R70			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	U - Uninspectable		
		Bearing Seat:	U - Uninspectable		
Comments:	- Both the north and south abutment faces have hairline to narrow cracks throughout. Some local rust staining visible (likely from formwork ties). - Both footing to abutment construction joints opened with mild-medium erosion to concrete. - Northeast bearing seat has a medium spall with exposed reinforcement. - Horizontal construction joints on all wingwalls at abutment bearing seat level opened with local disintegration. - Bearings and bearing seat not inspectable.				
SUPERSTRUCTURE					
Condition:	P - Poor	Expansion Joints:	P - Poor		
Comments:	- Concrete on the underside of the deck around all deck drains has local disintegration with visible leaking water between the deck and drain, P3. - Northeast bearing area double tee has the back corner spalled exposing the pre-stressing strands with very severe corrosion, P1. - Southwest bearing area double tee has severed pre-stressing strands. Area is located on the exterior of the bridge and under the sidewalk, P. Remainder of member has a very wide longitudinal crack to the double tee's bottom face of the web, P. - No expansion joints. Gaps assumed to be maintained but are paved over. Gaps leaking water and causing distresses to double tee ends, bearing block behind the double tees and to the bearing seat, P. - Rebar grid exposed on deck soffit between double tees, F1 to P3.				
DECK					
Condition:	P - Poor	Curbs:	F1 - Fair		
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair		
Approach Rail:	F2 - Fair				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Curbs have light spalling/cracking and weathering. All caulking in joints has failed and is missing. - Asphalt surface is in fair condition, F2. - Approach/exit rail in fair condition but not attached to end blocks to complete guard rail structures. Minor dents scrapes. No hazard markers at structure approaches, F2. - Concrete handrail posts spalled, disintegrated and cracked to reinforcement throughout, P1. Railing in slightly better condition, P3 to P1. - Both the upstream and downstream fascia's have light weathering with light-narrow cracking.				
HYDROLOGY					
Water Velocity:	m/s	Ice Problem:	N - No Problem		
Water Depth:	m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Can walk under structure with rubber boots on at times. Could not check for scour during this inspection due to high water levels. - Ocean just downstream				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2026		

Antic. Rehab. Cost:	\$500,000	Replacement Cost:	\$5,000,000
Recommendations:	- Repair concrete around deck drains. - Replace/seal expansion joints. - Complete repairs to the cast in place deck. - Waterproof and pave structure. - Replace structure rail and end blocks. - Attached guiderail to end blocks. - Install a 45deg elbow and extend drains 1m below structure to preserve double tees. - Install caulking in expansion joints over curbs and other areas as required. - Repair all other concrete defects. - Complete local repairs to double tees. Consider strengthening the area. - Consider replacing the structure.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- Telecoms line? attached to structure on downstream side		

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