

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01292025-2	
Date: 1/24/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-130 - TWIN BRIDGES #1 - R10			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	U - Uninspectable		
		Bearing Seat:	U - Uninspectable		
Comments:	- Abutment exterior corners/bearing seat edges have light cracking with light efflorescence. Area also has localized delaminations, P3 to F1. - Southwest corner of the structure has moderate to severe efflorescent material leaching through the double tee bearing block and bearing seat construction joint, P3. - Double tee bearing block prevents bearing seat inspection. Significant efflorescent material leaching between the two elements, see expansion joints for more detail. - Abutment faces have hairline cracking in some locations. Very light erosion and discoloration to waterline concrete, F1 to F2. - Wingwalls have mild-med hairline map cracking with isolated areas of light efflorescence, F1.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P - Poor		
Comments:	- Both the east and west fascias are in fair condition with light cracking and scaling throughout, F1 - Double tees have very isolated areas with exposed stirrups (low cover), F1 to F2. No evidence of leaking between double tee precast sections. Hairline cracks visible in the soffit of double tee precast sections, F1 to F2. - Deck drains extended below double tees but there is leakage between the drain and the concrete deck, P3. - Expansion joints leaking and causing distress to the bearing seats below, P.				
DECK					
Condition:	F1 - Fair	Curbs:	U - Uninspectable		
Hand Rail:	P3 - 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. - Asphalt has no observed defects, F2. - Consider completing deck repairs near the expansion joints. - Consider waterproofing and paving the structure to greatly extent life. - Guiderail is not of type "Guiderail Structures". Railing and posts have no observed defects, F2. All hazard markers in place. - No end blocks. - Structure rail has dents/scrapes throughout. Rail missing and post damaged on the southeast corner of the structure, P3. - Curb tops covered in snow and not inspectable.				
HYDROLOGY					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	Shallow m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Riprap migrating into channel. - Moderate aggregation of river gravels under the bridge.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2030	Replacement Year:	2045		
Antic. Rehab. Cost:	\$300,000	Replacement Cost:	\$3,500,000		

Recommendations:		- Repair exterior bearing areas. - Repair leakage through deck around the deck drains. - Install end blocks and upgrade guiderail to “Guiderail Structures”. - Correct riprap placement. - Replace expansion joints. - Replace structure rail. - Consider completing deck repairs near the expansion joints. - Consider waterproofing and paving the structure to greatly extent life.	
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Structure overall in fair condition. Expansion joints need replacement.		

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