

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01272026-1	
Date: 1/21/2026		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-147 - MAKINSONS BRIDGE - R71			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Assumed condition of buried frame leg footings. - Wingwalls have narrow to medium pattern cracking with light to medium efflorescence, F1 to P3. - Frame leg faces have light erosion at the waterline and isolated locations with narrow cracks with light efflorescence, F1.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- Bridge deck soffit/fascia on the southwest corner has medium to wide cracks with active leaching and severe efflorescent deposits. Suspected performance deficiency, P3 to P1. - West deck fascia has medium to wide longitudinal cracks near mid span. Crack gauges were installed in 2025 for monitoring. - East deck fascia has isolated wide cracks. Crack gauges were installed in 2025 for monitoring. - Deck soffit concrete around the southeast deck drain has two small spalls. Visible embedded lumber in vicinity. - Concrete deck drain penetration leaking. Pipe coated in heavy efflorescent deposits.				
DECK					
Condition:	P3 - Poor	Curbs:	P3 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	P - Poor				
Comments:	- *Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Structure rail is four-rail aluminum system. Minor dents and scrapes throughout, F2 to F1. - Guiderail not of type "Guiderail Structures". Many guiderail posts split in half, P. All structure hazard markers are missing. Significant fill accumulation under guiderail. - Curb tops covered in snow/gravels during inspection, uninspectable. Both curb fascia's have narrow to medium cracks with medium efflorescence. Curb concrete around end blocks have wide cracks with delaminations, P3. Suspected widespread delaminations from drip bead to curb tops long the length of the bridge, both sides, P3. Significant gravel buildup against curb's roadway faces. - End blocks have light to wide pattern cracking throughout, F1 to P3. - Asphalt surface has severe transverse cracks over the bridges south support. Southwest corner has evidence of a recently patched pothole, P3. F1 to F2 remainder.				
HYDROLOGY					
Water Velocity:	~1 m/s	Ice Problem:	N - No Problem		
Water Depth:	1.5-2 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Water levels too deep and fast for inspection with waders at time of inspection				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:			
Antic. Rehab. Cost:	\$	Replacement Cost:	\$		

Recommendations:	- Potential performance deficiency on southwest corner. TI bridge design office to review. - For a rehabilitation contract: Replace guiderail with guiderail structures, Replace end blocks and surrounding curb concrete, Deck soffit concrete repairs, Replace both curb's exterior fascias, Inject curb/deck construction joint & around deck drains.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	Yes
Additional Observations:	- Investigate southwest corner for a potential performance deficiency, P3. Curb fascia concrete, P3. F1 remainder.		

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