

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03072025-4	
Date: 3/5/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-042 - RED HEAD RIVER BRIDGE - R92			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	F2 - Fair		
		Bearing Seat:	F2 - Fair		
Comments:	Assumed condition of buried east concrete footing. South footing partially visible with medium horizontal and vertical cracking. Narrow to medium vertical cracking in east and west abutments with light spall and exposed reinforcement. All wingwalls contain medium to wide pattern cracking with medium to severe efflorescence. Very severe spall in SE wingwall beneath expansion joint. Styrofoam obstructing visual inspection of elastomeric bearings. NE embankment material migrating onto bearing seat. Remaining bearing seat contains lumber and concrete debris.				
SUPERSTRUCTURE					
Condition:	P1 - Poor	Expansion Joints:	P1 - Poor		
Comments:	Numerous locations of severe delamination were identified in the exposed concrete deck using a hammer. Deck repairs are visible from previous rehab. Medium longitudinal cracks in deck soffit with light efflorescence. Severe spall, delamination, and disintegration creating a large cavity with exposed reinforcement in bottom of downstream girder near mid span (P1). Deterioration caused by deck drain above. Severely corroded exposed reinforcement in the bottom of the girder is also visible in this area. Narrow to medium horizontal and pattern cracking in bottom flange and web of exterior girders. Heavy accumulation of efflorescence on east diaphragms evidence of leaking expansion joint. Light spalling exposing stirrups in all faces of girders from insufficient cover. Corrosion from steel chairs is visible in bottom of girders.				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	F2 - Fair				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. New end blocks, HSS steel handrail, guiderail structures, and hazard markers installed from previous rehab. Construction joint between deck and curb has wide opening and very uneven. Severe spalling and disintegration to downstream deck fascia adjacent to deck drain. Medium transverse cracks and settlement in asphalt at both expansion joints. Extensive cracking with efflorescence in interior curbs. Water is pooling and unable to drain from SW approach. Medium horizontal cracks with medium efflorescence in deck/curb fascia. Heavy vegetation growth along approach/exit guiderail.				
HYDROLOGY					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
REPLACEMENT/REHABILITATION					

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Repair deteriorated downstream girder. Install new deck drains. Repair delaminated areas in exposed deck. Replace expansion joint seals. Install waterproofing and asphalt over deck and approached. Remove debris from bearing seats. Repair all concrete defects in bridge elements. Clear vegetation from approach/exit rail.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	Monitor deterioration to downstream girder from deck drainage.		

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