

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03062025-2	
Date: 2/27/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-014 - ANGEL'S COVE BRIDGE - R			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	P3 - Poor		
Comments:	- Both abutments have moderate scaling throughout, F1. - North abutment footing has moderate erosion to waterline concrete, F1. - South abutment built on bedrock and has light efflorescent material leaching from the footing/abutment construction joint, F1 to P3. - Exposed south abutment concrete footing has several narrow vertical cracks with moderate efflorescence, F1 to P3. - Exposed north abutment concrete footing has several narrow horizontal cracks with light efflorescence, F1 to P3. - All abutment corners and wingwalls have medium cracking with light to moderate efflorescence, F1. - Southwest & northeast abutment corner bearing seats have a wide crack and delamination near/under the exterior double tees, P3 to P1. Bearing seat perimeter F1 remainder. - No visible bearings under any double tees. - North abutment footing construction joint open all its length with disintegrated edges.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	F1 - Fair		
Comments:	- Precast deck soffit and double tees have widespread shallow spalls due to low cover, P3 to F1. - The deck soffit around the deck drains has low cover spalls with severe corrosion to reinforcement. - No cracking visible in double tee bottom flanges. - Rust leachate visible between double tee pre-cast section longitudinal joints. Minimal efflorescent material visible. - No visible leakage from bearing seats to indicate leaking expansion joints/gaps, F1. Expansion joints/gaps paved over.				
DECK					
Condition:	P3 - Poor	Curbs:	P3 - Poor		
Hand Rail:	P - Poor	Roadway Condition:	P1 - Poor		
Approach Rail:	P - Poor				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Approach/exit rails are of type "Guiderail Structures". All structure corners in fair condition with no significant defects except for the southwest corner. All guiderail in the area is too low and is < 300mm high in some locations. Approach/exits are heavily overgrown and cannot be clearly seen. P for visibility and for being too low on the southwest corner. - No hazard markers on structure approaches. - Asphalt on structure and approaches has numerous potholes, P1. - Structure rails/posts heavily damaged on the southwest corner. Posts are twisted and top rail is not attached, P. - Curbs covered in snow and buried in sand/gravel with mild vegetation growth and were not inspectable. - Both fascias/curb exterior has several longitudinal cracks with light to moderate efflorescence. - Both bridge deck fascia's construction joint between the cast-in-place and pre-cast decks have moderate rust and efflorescent leachate, P3.				
HYDROLOGY					
Water Velocity:	> 1 m/s	Ice Problem:	N - No Problem		
Water Depth:	~1 m	Scour Problem:	K - Known Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- South abutment footing is perched on bedrock out of the river. High flow event during this inspection and water				

levels were not touching the footing/bedrock joint. Possibility of scour very low. - High water levels prevented scour inspection of the north abutment. Note from previous report "North abutment poured on bedrock and has moderate scour throughout the length of the footing." Revisit required. - Large quantities of water observed to be flowing down and along the southeast wingwall.

REPLACEMENT/REHABILITATION

Next Rehab. Date:

Replacement Year:

Antic. Rehab. Cost: \$

Replacement Cost: \$

Recommendations: - Clear all brush on approaches and atop the bridge deck. - Remove gravel against and on curbs. - Install hazard markers. - Replace sections of the structure railing. - Replace southwest corner guiderail. - Repair curb concrete defects, if any, after removal of gravels. - Complete deck repairs, waterproof and repave. - Repair scour under the north abutment and place riprap. - Caulk expansion gaps in curbs. - Install ditching/culvert for southeast wingwall runoff. - Likely more feasible to replace with a multiplate on concrete footings (bedrock).

OBSERVATIONS

Overall Condition: P3 - Poor

**Requires Further
Inspection:** Yes

Additional Observations: - Alignment/sight distance around the structure is poor. Blind hill from south bound approach. Blind turn onto bridge caused by overgrowth.

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