



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT  
B08222024-1**

Date: 8/22/2024

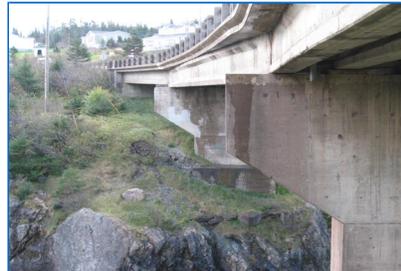
Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-052 - LITTLE ST. LAWRENCE DAM BRIDGE			Overall Length:	74.3 m
Route:	220			Overall Width:	10.7 m
Year Built:	1972	Est: No		Roadway Width:	9.5 m
Year Last Rehab.:	2006	Est: No		Sidewalk Width:	0 m
Region:	CENTRAL EAST			Clearance to R.D. or N.W.L.:	19 m
Jurisdiction:	Provincial			Max Depth of N.W.L.:	3.5 m
Type of Structure:	01 - AASH to Girder			<b>Spans:</b>	
Purpose of Structure:	04 - Over Non-Navigable Waters			<u>Span No.:</u>	<u>Length</u>
Type of Handrail:	02 - Concrete Rail			<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt			1	18
Alignment Vertical:	01 - Good			2	31
Alignment Horizontal:	02 - Adequate			3	18
Restrictions:	No			4	0
				5	0
				6	0

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	P3 - Poor
		<b>Bearing Seat:</b>	P1 - Poor
<b>Comments:</b>	Concrete abutments, piers and wingwalls. Some deterioration pier corners. Some cracking with efflorescence on abutments. Several parts of abutments rehabbed in 2023 due to stream erosion. Bearings are squat and cracked throughout, bearing seats have significant debris. Previous report mentions that girder 5, pier 1, span 2 bearing plinth is slightly displaced and cracked.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	6 AASHTO girders, extensive patch work performed in 2023 rehab. Still a few minor areas of spalling. Hairline longitudinal cracking on some outside girders. Expansion joint concrete dams have minor cracking.		

**DECK**

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	End blocks have minor impact damage. Curbs have poor patchwork. Hazard markers are irregularly sized. Improper construction of expansion joints are causing noticeable dips in roadway surface. Heavy sand and salt build up on deck and curbs. Deck soffit has minor areas of cracking with efflorescence, and heavy efflorescence deposits near deck drains. Fascia has cold joint running throughout.		

**HYDROLOGY**

<b>Water Velocity:</b>	Tidal m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Tidal m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Located over gorge, 100m downstream of hydro-electric dam.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	
<b>Antic. Rehab. Cost:</b>	\$\$tbd	<b>Replacement Cost:</b>	\$\$tbd

Recommendations:

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
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Additional Observations:

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.