



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B08212024-2

Date: 8/20/2024

Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-042 - LITTLE ST. LAWRENCE CAUSEWAY BRIDGE					
Route:	220	Overall Length:	43.3 m			
Year Built:	1971	Est: No	Overall Width:	10.5 m		
Year Last Rehab.:	2023	Est: No	Roadway Width:	9.3 m		
Region:	CENTRAL EAST		Sidewalk Width:	0 m		
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.:	3 m		
Type of Structure:	01 - AASH to Girder		Max Depth of N.W.L.:	2.5 m		
Purpose of Structure:	03 - Over Navigable Waters		Spans:			
Type of Handrail:	01 - Aluminum Rail		Span No.:	Length	Span No.:	Length
Roadway Surface:	02 - Asphalt		1	36.6	4	0
Alignment Vertical:	01 - Good		2	0	5	0
Alignment Horizontal:	01 - Good		3	0	6	0
Restrictions:	No					

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	P3 - Poor
		Bearing Seat:	P3 - Poor
Comments:	Concrete abutments and wingwalls with minor cracking throughout. Wingwalls have minor efflorescence deposits in location of cracks. Some bearings are squat and widely cracked. Bearing seats have large amounts of debris consisting of granular and formwork.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	U - Uninspectable
Comments:	5 AASHTO girders, expansion joints paved over, likely new in 2023 rehab. Some girders have minor isolated spalling, overall in fair condition. Outside girder-ends appear to have attempted rehab surfaces but still some are deteriorated. All girder bottoms have damp staining.		

DECK

Condition:	F2 - Fair	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Hazard markers are too small. Poor rehab surfaces on fascia, with noticeable edge of thin cover. some spalling/disintegration on fascia. deck soffit has areas of spalling and cracking with heavy amounts of efflorescence seeping through. Minor to moderate erosion on approaches near end blocks.		

HYDROLOGY

Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal, velocity and depth fluctuate. minor scouring of abutment one. Old bridge structure littering just upstream with exposed rebar and wires. Could cause potential danger to waterway users.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$tbd	Replacement Cost:	\$tbd
Recommendations:			

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Monitor locations of seeping efflorescence through deck soffit, likely due to leftover formwork.		