



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B02032020-6

Date: 2/3/2020

Inspected By: Alex Ford

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.:	2006	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
Roadway Surface:	01 - Concrete	1	36.6
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments and wingwalls. Minor concrete erosion in the tidal zone, light cracking. Bearing pads are squat under some girders. Significant debris on beam seats (sand, formwork).		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P1 - Poor
Comments:	5 AASHTO girders, some minor exposed rebar with small spalls. Expansion joints are leaking, damaged - severe deterioration around the curb sections.		

DECK

Condition:	P3 - Poor	Curbs:	P3 - Poor
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F2 - Fair		
Comments:	Exposed concrete deck, some potholes, cracking and exposed rebar, u/s deck has active wet areas with cracking, spalls and efflorescence especially between girders 3-4-5. Aluminum 4 rail system with concrete endblocks, many anchor bolts have loose or missing nuts and washers, several missing or loose rail nuts. Approach rail has no end shoes, no structure rail at bridge. Curbs have disintegration, cracking and efflorescence. Hazard markers in poor condition.		

HYDROLOGY

Water Velocity:	m/s	Ice Problem:	N - No Problem
Water Depth:	m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal. Depth and Velocity vary. Minor scour at abutment one 100mm average depth, no issues.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Rehab structure. Latex repairs, expansion joints, deck overlay, curb overlay, reinstall hand rail, install structure approach rail. Replace Hazard Markers. Consider paving deck.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
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Additional Observations:

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

G - Good. P - Poor.

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P2, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.