



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B01302020-2

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-114 - CRESTON CAUSEWAY BRIDGE				
Route:	220	Overall Length:	100 m		
Year Built:	1988	Est: No	Overall Width:	10 m	
Year Last Rehab.:		Est: No	Roadway Width:	10 m	
Region:	CENTRAL EAST	Sidewalk Width:	1 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	6 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m		
Purpose of Structure:	03 - Over Navigable Waters	Spans:			
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	40	4	0
Alignment Vertical:	01 - Good	2	40	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	No				

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments, pier and wingwalls. Minor concrete erosion in the tidal zone along centre pier. Light map cracking on wingwalls.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	5 AASHTO girders each span. Expansion joints are receiving impact damage due to settled approaches, curb dymeric is cracked, damage is causing leakage.		

DECK

Condition:	F2 - Fair	Curbs:	P3 - Poor
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	Concrete deck with asphalt wearing surface is rutted. Settled at both approaches causing hard bumps. 4 rail aluminum hand rail with concrete end blocks, some impact damage to aluminum right side. Approach rail has no end shoes, rotted posts and is too short for the hazard. Sidewalk left side - ramps at both end drop 75-100mm to shoulder, poor transition. Sidewalk curb face is disintegrated through out, some delamination and spalling on top surface. The joint at the sidewalks are leaking. Sand buildup under approach rail causing problems with water ponding at Abutment 1 left.		

HYDROLOGY

Water Velocity:	m/s	Ice Problem:	N - No Problem
Water Depth:	m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal. Depth and Velocity vary. No known scour issues, centre pier can only be inspected by diving.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2020
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:			

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Navigation light destroyed. Waterline attached to left side of structure leaking at two places.		

LEGEND:

Condition Definitions:

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

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

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

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.

Category Definitions:

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

4 - *Unsafe - [discontinued code].
G - Good.

P1 - Poor.
P - Poor.

NA - Not Applicable.

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, P, or C
 - Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS

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