



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT
B01302020-15**

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-115 - LAWN HARBOUR BRIDGE WEST				
Route:	220-16	Overall Length:	41.5 m		
Year Built:	1987	Est: No	Overall Width:	10.8 m	
Year Last Rehab.:		Est: No	Roadway Width:	9 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1 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	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	28.5	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:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments and wing walls. Minor erosion in the tidal zone. Large spall on left side wing wall abutment one. Styrofoam left around bearing pads from construction.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	AASHTO girders, some exposed stirrups on girder 2 and 5, minor honeycomb from construction. Plow damage to curb section armour abutment one, styrofoam left in joint from construction, dymeric in fascia gone. Expansion joints have impact damage, poor seals and leakage.		

DECK

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	P - Poor		
Comments:	Concrete deck with asphalt wearing surface. Asphalt approaches and deck cracked, raveling, delaminations, potholes. Minor cracking with efflorescence on soffits. Aluminum 4 rail system with concrete end blocks. Approach rail no end shoes, rotted posts, impact damage to approach #2 rail leaving it separated from end block. Water is ponding on all four corners of the deck, directly over the expansion joints. Sidewalk right side, curb have minor abrasion damage.		

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.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Replace expansion joints, strip and repave deck. Install new object markers. Place additional rip rap at all corners. Rail poses a safety issue and should be immediately repair.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Waterline attached to downstream side. Approximately 200m downstream of site 2-059, Lawn Bridge West, on R220.		

LEGEND: Condition Definitions: _____ Problem Definitions: _____ Category Definitions: _____

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

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

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

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

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

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector sees 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.