



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B01302020-16

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-083 - LAWN HARBOUR BRIDGE EAST (OLD)				
Route:	220-16	Overall Length:	40.5 m		
Year Built:	1986	Est: No	Overall Width:	10.8 m	
Year Last Rehab.:		Est: No	Roadway Width:	9 m	
Region:	CENTRAL EAST	Sidewalk Width:	1.2 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	2 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	23.5	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 wingwalls. Minor cracking in some areas.

SUPERSTRUCTURE

Condition: F2 - Fair **Expansion Joints:** P3 - Poor

Comments: AASHTO girders - a few exposed stirrups with rusting. Minor deterioration of fascia in isolated areas. Expansion joints have impact damage on the road and curb sections. Curb sections are leaking and adjacent concrete is severely deteriorated. Griders 1,2,3,4, 6 have exposed rebar throughout the bottom.

DECK

Condition: F2 - Fair **Curbs:** P3 - Poor
Hand Rail: F2 - Fair **Roadway Condition:** P3 - Poor
Approach Rail: P - Poor

Comments: Concrete deck with asphalt wearing surface. Aluminum 4 rail system with concrete end blocks, minor scrapes from plows. Approach rail has no end shoes, impact damage, rotting posts and significant debris built up underneath. Curb left side severe deterioration and exposed rebar. All hazard markers are old and worn. Approach #2 left rail not attached to the post and is not continuous.

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: Rehab required: Expansion joints, curbs, rip rap at abutment one right side guide rail.

OBSERVATIONS

Overall Condition: F2 - Fair **Requires Further Inspection:** No

Additional Observations: Catch basins at end of wing walls of abutment two both sides, outlets not found. Voids in diaphragms between girder one and two left for possible waterline passage.

LEGEND:

Condition 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.

Problem Definitions:

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

Category Definitions:

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

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.