



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B09222017-4

Date: 9/13/2017

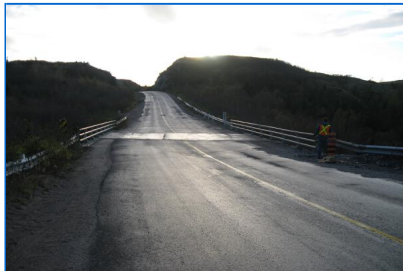
Inspected By: AB

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-064 - SOUTHEAST BROOK BRIDGE					
Route:	211-10	Overall Length:	20 m			
Year Built:	1970	Overall Width:	12 m			
Year Last Rehab.:		Est: No	Roadway Width:	11.5 m		
Region:	CENTRAL EAST	Est: No	Sidewalk Width:	0 m		
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.:	4 m		
Type of Structure:	03 - Reinforced Concrete Beam/Slab		Max Depth of N.W.L.:	0.5 m		
Purpose of Structure:	04 - Over Non-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:	01 - Concrete		1	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:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	F2 - Fair

Comments: Concrete abutments and wingwalls. Cracking (some severe), efflorescence and disintegration throughout. Tops of right side wingwalls are severely disintegrated with exposed rebar. Timber cribs as retaining structures not

adequate to retain fill at corners.

SUPERSTRUCTURE

Condition: F1 - Fair **Expansion Joints:** P3 - Poor
Comments: Reinforced concrete deck, cracking with efflorescence underside. Expansion gaps leaking.

DECK

Condition: P3 - Poor **Curbs:** P1 - Poor
Hand Rail: P3 - Poor **Roadway Condition:** P1 - Poor
Approach Rail: P3 - Poor
Comments: Exposed concrete deck was paved recently, severe cracking and disintegration throughout especially on each of the corners. 3 rail aluminum hand rail with no end blocks, some impact damage, anchorages poor due to deteriorating concrete. Approach rail leaned, rusted, posts rotted. No curbs on structure, water runs off over deck edges adding to deterioration. Bridge rail on abutment 1 is lapped incorrectly at transition to bridge rail.

HYDROLOGY

Water Velocity: 3.0 m/s **Ice Problem:** N - No Problem
Water Depth: 0.5 m **Scour Problem:** P - Possible Problem
Waterway: 01 - Adequate **Debris Problem:** N - No Problem
Comments: Possible minor scour under abutment 1 left. Could not thoroughly inspect due to water levels.

REPLACEMENT/REHABILITATION

Next Rehab. Date: **Replacement Year:**
Antic. Rehab. Cost: \$0 **Replacement Cost:** \$0
Recommendations: Replace with a multiplate structure.

OBSERVATIONS

Overall Condition: P3 - Poor **Requires Further Inspection:** No

Additional Observations:

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



Description:



Description:



Description:



Description:



Description:

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