



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT**  
**B02032020-3**

Date: 2/3/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-030 - GRAND BANK BROOK BRIDGE (NO.1)				
Route:	210	Overall Length:	31.8 m		
Year Built:	1968	Est: No	Overall Width:	11.5 m	
Year Last Rehab.:		Est: No	Roadway Width:	8.5 m	
Region:	CENTRAL EAST	Sidewalk Width:	1.1 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.3 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m		
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:			
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	24	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. Small to medium cracking with efflorescence in abutments. Cracking with some deterioration of the wingwalls. Deterioration and exposed rebar with rust staining on backwall one from

leaking joint. Bearing pads are partly squat and there is significant debris on the beam seat. Some deterioration of the beam seat abutment two. Concrete erosion on abutment #1 at water line level.

**SUPERSTRUCTURE**

**Condition:** F2 - Fair **Expansion Joints:** P3 - Poor  
**Comments:** AASHTO girders. Girder six toward abutment two end has large piece of concrete delaminating/spalled off due to exposed rebar, 1.5m long. Some minor deterioration of the outside faces of the outside girders. Expansion joints paved over and leaking, seals in curb missing.

**DECK**

**Condition:** P3 - Poor **Curbs:** P3 - Poor  
**Hand Rail:** P3 - Poor **Roadway Condition:** P3 - Poor  
**Approach Rail:** G - Good  
**Comments:** Concrete deck with asphalt wearing surface. Active wet areas on underside of deck around drains with some cracking and spalling with efflorescence - deterioration most likely on top as well. Concrete rail and end blocks some minor cracks. Curbs are deteriorated with exposed rebar, spalls and cracking throughout - left side worse condition. Sidewalk both sides, no ramps at ends, too narrow. Asphalt replaced 2019, guide rail installed 2019. The expansion joints have been paved over. Concrete rail posts have vertical cracks.

**HYDROLOGY**

**Water Velocity:** 0.5 m/s **Ice Problem:** N - No Problem  
**Water Depth:** 1.0 m **Scour Problem:** N - No Problem  
**Waterway:** 01 - Adequate **Debris Problem:** N - No Problem  
**Comments:** Dam located 30m upstream.

**REPLACEMENT/REHABILITATION**

**Next Rehab. Date:** **Replacement Year:**  
**Antic. Rehab. Cost:** \$0 **Replacement Cost:** \$0  
**Recommendations:** Rehab structure. Latex repairs, deck repairs, expansion joints, resurface curbs, add sidewalk ramps, new hand rail.

**OBSERVATIONS**

**Overall Condition:** F2 - Fair **Requires Further Inspection:** No  
**Additional Observations:** Waterline attached to left side.

**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**