



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT**  
**B05292020-5**

Date: 5/29/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-036 - RUSHOON RIVER BRIDGE			
Route:	210	Overall Length:	29.7 m	
Year Built:	1970	Est: No	Overall Width:	13.7 m
Year Last Rehab.:	1987	Est: No	Roadway Width:	12.2 m
Region:	CENTRAL EAST			
Jurisdiction:	Provincial			
Type of Structure:	01 - AASH to Girder			
Purpose of Structure:	04 - Over Non-Navigable Waters			
Type of Handrail:	01 - Aluminum Rail			
Roadway Surface:	01 - Concrete			
Alignment Vertical:	01 - Good			
Alignment Horizontal:	01 - Good			
Restrictions:	No			

  

	<b>Span No.:</b>	<b>Length</b>	<b>Span No.:</b>	<b>Length</b>
	1	14.6	4	0
	2	0	5	0
	3	0	6	0

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	P3 - Poor	<b>Bearings:</b>	P3 - Poor
		<b>Bearing Seat:</b>	P3 - Poor
<b>Comments:</b>	Concrete abutments and wingwalls. Moderate to severe cracking, delamination, disintegration and efflorescence all components. Concrete erosion in flow zone. Bearing pads are squat. Significant debris on bearing seats. Threaded rod sticking out of abutment walls - possibly from previous rehab. Abutment 2 right requires additional rip-rap. Abutment 2 left is washed out.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P1 - Poor
<b>Comments:</b>	7 AASHTO girders, staining and efflorescence from leakage through deck. Expansion joints have significant impact damage on concrete, dams and armour, disintegration of curb section concrete. Girder 4 has approximately 400mm of exposed steel.		

**DECK**

<b>Condition:</b>	P1 - Poor	<b>Curbs:</b>	P3 - Poor
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	P1 - Poor		
<b>Comments:</b>	Exposed concrete deck, extensive cracking and disintegration of the first half span, isolated damage elsewhere - previous surface repairs failed. Underside of deck has disintegration, especially exterior fascia/soffit and around old drain holes. 4 rail aluminum hand rail with concrete end blocks, impact damage left pedestrian rail, end blocks have large map cracking. Approach rail has some post rot and minor impact damage. Curb have cracking and disintegration isolated throughout. Approaches significantly settled, cracked, potholes. ID signs require replacement.		

**HYDROLOGY**

<b>Water Velocity:</b>	1.0 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	1.5 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Unable to check scour. Not suspected		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2021	<b>Replacement Year:</b>	
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Rehab structure. Extensive latex repairs, expansion joints, overlay/through deck repair, curb repairs, hand rail repairs, guide rail repairs, repave approaches. Scour investigation recommended.		

**OBSERVATIONS**

<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
	Significant issues stemming from poor construction and rehabs.		

**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**

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