

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08162023-3</b>	
<b>Date:</b> 11/1/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-040 - TORRENT RIVER BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	58.4 m
<b>Year Built:</b>	1965	<b>Est:</b> No	<b>Overall Width:</b> 11.4 m
<b>Year Last Rehab.:</b>	2006	<b>Est:</b> No	<b>Roadway Width:</b> 9.1 m
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 1.5 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3.5 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	02 - Concrete Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	02 - Asphalt	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Vertical:</b>	01 - Good	1	48.8
<b>Alignment Horizontal:</b>	01 - Good	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	P3 - Poor
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	- North abutment has light to medium spalling in local areas. The concrete surface is stained from efflorescence on the east end of the wall, F1 to P3. - South abutment appears to be in fair condition, F1. - Wingwalls have areas of mild spalling and narrow map cracking throughout, F1 to P3. - Bearings – The South wood bearings are severely splintered and crushed. The North bearings are in fair condition, F1 to P3. - Bearing seats appear to be in fair condition, limited inspection. F1		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	F1 - Fair
<b>Comments:</b>	- Defects on the underside of girders have been patched during the most recent rehab. Efflorescence is visible on the exterior girders, F1 to P3. - Diaphragms are in overall fair condition. There is light disintegration throughout. South diaphragm has medium cracks and light disintegration on the underside. The disintegration has exposed rebar with medium corrosion, F1. - Underside of deck around girders has severe efflorescence. Many of the rehabbed concrete sections have narrow cracks, P3. - Deck soffit - The deck is leaching efflorescence onto the girders. The soffit has medium to wide cracks in local areas along the span, P3. - Expansion joints are in fair condition. Some debris in the seal, F1.		
<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F1 - Fair		

**Comments:** - Asphalt deck and approaches are in overall fair condition. There is a wide crack along the center line of the South approach slab. There are medium cracks propagating out from the construction joints. The asphalt surface is spalling around the cracks, F1 - Curbs are in fair condition. There are hairline cracks on the interior side surface. Two of the curb corners have medium spalls, F1. - End blocks are in fair condition. There is light deterioration in local areas, F1 - Handrails are in fair condition, F1. - Guiderails are in fair condition. The guiderails have all four hazard markers and regulation post spacing. All rails are connected to the end blocks, F1.

**HYDROLOGY**

<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>			

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2033	<b>Replacement Year:</b>	2040
<b>Antic. Rehab. Cost:</b>	\$200000	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Recommended to rehab abutment, deck, and wingwalls. Recommended to replace bearings and expansion joints.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
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**Additional Observations:** - Bridge is in overall fair condition, F1 with local P3 areas.

**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 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**