

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12132021-7	
Date: 10/30/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-050 - RAFT RIVER BRIDGE		
Route:	500	Overall Length:	24.6 m
Year Built:	1991	Est: No	Overall Width: 11.8 m
Year Last Rehab.:		Est: No	Roadway Width: 10.8 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.1 m
Type of Structure:	08 - Steel Bridge	Max Depth of N.W.L.:	2.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	01 - Aluminum Rail	Spans:	
Roadway Surface:	01 - Concrete	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	15
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	G - Good
		Bearing Seat:	G - Good
Comments:	- Abutments, wingwalls, bearings and bearing seats in good condition.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	F2 - Fair
Comments:	- Expansion joints in fair condition with mild rust staining to roadway concrete. Very mild cracking and honeycombs to northeast bottom of deck expansion joint concrete. - Bottom of deck concrete in good condition. - Both fascia's have light map cracking. South fascia has a cold joint along its length. - Six girders and their braces have light to moderate surface corrosion, G.		
DECK			
Condition:	G - Good	Curbs:	G - Good

Hand Rail:	G - Good	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Approach/exit rails in fair condition with some light rail damage at the ends, connected to end blocks, northeast hazard marker needs to be re-secured and the rest are in place, and has collision dampening posts prior to end blocks. - End blocks have mild map cracking. - Asphalt in fair condition on the approach to the structure. Wide transverse asphalt cracks at the approach slab entrance. Asphalt joint to deck opening up on each side of the structure. No asphalt over structure, both approach slabs paved. - Deck concrete in fair condition, aggregate colors showing throughout with small bug holes. Structure has deck drains. - Curbs in good condition. - Structure handrail has minor scrapes and dents throughout, F2.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	Deep m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Footings have good rip-rap placement.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2022	Replacement Year:	2060
Antic. Rehab. Cost:	\$5,000	Replacement Cost:	\$1,800,000
Recommendations:	- 2022 - Replace/re-secure hazard marker. Seal asphalt cracks over the approaches. Replace guide rail ends in two locations.		

OBSERVATIONS

Overall Condition:	G - Good	Requires Further Inspection:	No
Additional Observations:	- Hazards mild traffic, slopes and traversing rip-rap. Bat feces on bearing seats. Wedged northeast hazard marker and post between two guiderail posts so its semi-in position.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

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