

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12072021-7	
Date: 10/28/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-082 - OTTER BROOK BRIDGE		
Route:	500	Overall Length:	38 m
Year Built:	2008	Est: No	Overall Width: 12.3 m
Year Last Rehab.:		Est: No	Roadway Width: 11 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.5 m
Type of Structure:	08 - Steel Bridge	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	1	25
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	G - Good
		Bearing Seat:	G - Good
Comments:	- Abutments, bearing seats, bearings and wingwalls all in good condition.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	F1 - Fair
Comments:	- Expansion sawcut rubber compound in fair condition with some tearing. Concrete deck overhang on back wall vertical waterproofing on the northeast and southwest corners is poor condition with sections of chaulking missing and backing rod protruding from the surface, F1. No chaulking on northwest corner. - Six girders and interior braces have moderate corrosion to all surfaces. Girder ends and braces over abutments are painted and have no corrosion. Bottom of deck concrete in excellent condition. Superstructure G. - Possible cold joint along the length of the north fascia.		
DECK			
Condition:	G - Good	Curbs:	G - Good
Hand Rail:	G - Good	Roadway Condition:	G - Good
Approach Rail:	G - Good		
Comments:	- Approach/exit guiderail in good condition complete with hazard markers, connected to end blocks and has collision dampening posts prior to end blocks. - Approach/exit asphalt in good condition. - No asphalt, concrete deck in good condition. West approach slab has a wide longitudinal crack along the length of the slab. No deck drains. - Curbs in good condition. - Handrails in good condition.		

HYDROLOGY			
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Rip-rap has good placement.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2025	Replacement Year:	2070
Antic. Rehab. Cost:	\$10,000	Replacement Cost:	\$1,800,000
Recommendations:	- Replace concrete deck overhang vertical waterproofing on the northeast and southwest corners. Place chaulking on the northwest corner. Fill (gravity feed) the crack on the west approach slab. Reseal deck overhang sawcut between the approach slab and deck.		
OBSERVATIONS			
Overall Condition:	G - Good	Requires Further Inspection:	No
Additional Observations:	- Hazards mild slopes, mild traffic and traversing large rip-rap.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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.