

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12072021-8	
Date: 10/28/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-080 - PARADISE RIVER BRIDGE		
Route:	500	Overall Length:	90.1 m
Year Built:	2006	Est: No	Overall Width: 11.5 m
Year Last Rehab.:		Est: No	Roadway Width: 7.35 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	7 m
Type of Structure:	10 - Callender-Hamilton or Other Stress Truss Bridge	Max Depth of N.W.L.:	4 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:	04 - Steel	1	81
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Concrete wingwalls and abutments in good condition. Bearing seat and bearings covered in roadway gravels in most sections and could not be inspected. Condition assumed to be in fair.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	G - Good
Comments:	- Inspected all visible elements of the "through truss" bridge walking across the deck and using binoculars from below at the abutment levels. All gusset plates/bolts/nuts/splice plates, stringer to girder connections, and the various types of members used were found to be in good condition. Bottom chord "I" section turned on its weak axis creating a pocket to trap roadway gravels, most bolts/nuts could not be visually inspected.		
DECK			

Condition:	G - Good	Curbs:	G - Good
Hand Rail:	G - Good	Roadway Condition:	G - Good
Approach Rail:	F1 - Fair		
Comments:	- Approach/exit guiderail has lost corrugation in several sections, many posts are spilt/damaged/cracked off, are connected to end blocks, do not have collision dampening posts prior to end blocks, and the northeast hazard marker is missing, remaining hazard markers are in place. - End block jersey barriers have light-mild map cracking throughout. - Precast deck sections in good condition. Approaches are gravel and also in good condition (dynamic). - Curb is a customized steel section bolted to pre-cast concrete deck sections and is in good condition. - Handrail is in good condition.		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Structure ~10m above the waterline. Rip-rap in good condition.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2022	Replacement Year:	2080
Antic. Rehab. Cost:	\$15,000	Replacement Cost:	\$4,000,000
Recommendations:	- Remove roadway gravel from bearing seats and from bottom chord "I" section pocket. Bottom chord "I" section turned on its weak axis creating a pocket for gravels. Recommend use of a blow pipe. (Maintenance). Replace sections of guiderail and posts as required.		

OBSERVATIONS

Overall Condition:	G - Good	Requires Further Inspection:	No
Additional Observations:	- Hazards, traffic, slopes and traversing rip-rap. Inspection limited below structure with use of binoculars. Bottom chord "I" section turned on its weak axis creating a pocket to trap roadway gravels, most bolts/nuts could not be visually inspected.		

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