

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B01222021-5	
Date: 5/20/2020	Inspected By: Terrance Coates	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	4-104 - CELLAR BROOK BRIDGE		
Route:	431	Overall Length:	29.8 m
Year Built:	1978	Est: Yes	Overall Width: 11.3 m
Year Last Rehab.:		Est: No	Roadway Width: 10.6 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.4 m
Purpose of Structure:	03 - Over Navigable Waters		
Type of Handrail:	01 - Aluminum Rail	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	20.8
Alignment Horizontal:	02 - Adequate	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	G - Good
Comments:	Minor cracking in abutment walls. Deterioration in backwall with exposed rebar. Bearing pads have cracks in them.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	Expansion joints have been paved over. Older style angle iron expansion joints. No end blocks on structure.		
DECK			
Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	G - Good	Roadway Condition:	I - Inapplicable

Approach Rail: P1 - Poor

Comments: 1 approach has 2 lengths of guide rail and a buried end. This rail is not structural rail and the buried end is damaged. Remaining 3 corners of structure do not have any approach rail. No curbs on structure. Due to grade of deck and no curbs the downstream side deck fascia and soffit is severely deteriorated with exposed rebar that is corroded. Upstream curb and fascia is in good condition.

HYDROLOGY

Water Velocity:	0 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem

Comments:

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0

Recommendations: Repair fascia and soffit. Construct new concrete curbs and end blocks. Install new deck drains. Install new handrail. Replace expansion joints. Install new structural approach rail. Install traffic barrier parallel to brook on corner where there is a driveway. Install hazard markers.

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
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Additional Observations:

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