

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06202019-2	
Date: 6/20/2019	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-218 - BEAVER BROOK BRIDGE		
Route:	72	Overall Length:	9.7 m
Year Built:	1966	Overall Width:	8.5 m
Year Last Rehab.:		Roadway Width:	7.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.2 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	6.2
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	P3 - Poor
Comments:	Medium erosion to faces of reinforced concrete abutment footings. Medium spalling along faces of west footing. Narrow vertical cracks in abutment corners and faces. Medium to severe delamination/spalling to North East and South East extension beam seats. Narrow vertical horizontal cracks in faces of wingwalls. Wide vertical cracks at the top of South West and North West wingwall. Medium spalling in faces of South West wingwall. Severe delamination, spalling, disintegration to top South East wingwall.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	No visible signs of expansion joints (deck paved over).		
DECK			

Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P3 - Poor	Roadway Condition:	I - Inapplicable
Approach Rail:	I - Inapplicable		
Comments:	Small hazard markers attached to structure. Narrow alligator cracks and medium honey combing in deck soffit. Wide vertical horizontal cracks and light medium spalling with exposed reinforcement in concrete handrails. One section of downstream concrete handrail is missing and replaced by a piece of wood. some road settlements at end of the structure		

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.2 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Some scouring under west footing.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$25	Replacement Cost:	\$250
Recommendations:	Repair concrete handrail defects. Install rip rap at upstream end of the structure. Install approach and exit rail and hazard markers where possible.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Repair concrete handrail defects. Install rip rap at upstream end of the structure. Install approach and exit rail. Install hazard markers where possible.		

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