

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08102021-4	
Date: 3/10/2020	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-136 - PATRICK'S COVE RIVER BRIDGE		
Route:		Overall Length:	32.7 m
Year Built:	1978	Est: Yes	Overall Width: 11.8 m
Year Last Rehab.:		Est: No	Roadway Width: 11 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.4 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.8 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	22.4
Alignment Vertical:	02 - Adequate	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Assumed condition of buried reinforced concrete abutment footing. - Wide alligator cracking with medium efflorescent deposits in southwest wingwall (AAR?). Medium delamination in southwest wingwall. - Medium spalling/disintegration along top of southwest wingwalls. - Abutments remain covered in graffiti. - Medium horizontal/vertical cracks with light efflorescence in southeast wingwall. - Narrow medium vertical cracks in abutment faces.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	- No end blocks. - Fair amount of delamination/spalling with medium rusting to exposed reinforcement at girder bottoms near abutments. - Light delamination/spalling with medium rusting to exposed reinforcement on all girders (insufficient cover). - North expansion joint only (paved over on deck) (no sign of leakage). - Wide longitudinal crack in bottom of east exterior girder (south end).		

DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	P1 - Poor		
Comments:	- Deck overall condition, F1 west soffit, F2 remainder. - Narrow transverse/angular cracks with light efflorescence in deck soffit. - Moderate delamination/spalling with medium rusting to exposed reinforcement continues to edge of west cantilevered deck soffit (caused by deck runoff). - Narrow horizontal/vertical/transverse cracks in curb surfaces & fascias. - Small patched potholes in asphalt with narrow transverse cracks on deck. - Construction joint on southwest curb fascia repair opening up. 0 Moderate damage, decaying posts, & rail to close to ground at northeast exit. - Minor scrapes, dents, end caps missing on aluminum hand rails.		
HYDROLOGY			
Water Velocity:	0.4 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:	- Some rip-rap migrating into channel at west ends of structure. - Deck drains open/clear. - Chaulking missing from expansion joint gaps on north curb fascias.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$80000	Replacement Cost:	\$2500000
Recommendations:	- Repair all concrete surface defects. - Resurface deck. - Repair/replace northeast exit guiderail & install additional approach/exit guiderail where possible. - Install hazard markers in the interim (Maintenance). - Install additional rip-rap at west end of structure.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- Structure condition: P1 guiderail, F1 west exterior? deck soffit, F2 remainder. - River currently not running past either abutment. - Additional comments unchanged from previous inspections.		
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			