

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05112015-11	
Date: 2/11/2015	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-201 - LOWER ISLAND COVE RIVER BRIDGE		
Route:		Overall Length:	9.2 m
Year Built:	1965	Est: No	Overall Width: 10.8 m
Year Last Rehab.:		Est: No	Roadway Width: 6.4 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0.9 m
Type of Structure:	04 - Rigid Frame	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	4.7
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- No frame leg footings on original structure legs poured directly onto (rock?) riverbed - Assumed condition of buried/submerged reinf. conc. frame leg footings on extension		
SUPERSTRUCTURE			
Condition:	P - Poor	Expansion Joints:	I - Inapplicable
Comments:	- Very severe scour/erosion continues under orig. frame legs (bott. sections eroded away) deep eroded section at bott. middle of original south frame leg - Numerous wide vert/horiz cracks with light efflor deposits in faces of original frame legs. Narrow alligator cracks in faces of u/s wings - Severe delamin/spalling to SE corner of original south frame leg - Severe delamin/spalling with heavy efflor deposits at const. joints between orig. frame legs and u/s extension		
DECK			

Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	P - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- Narrow vert/transv cracks and light spalling in curbs - Numerous longit. medium effior deposits in orig. deck soffit. - Medium spalling with medium effior deposits and light leaking in deck soffit at const. joint between orig. structure and u/s extension - Light delamin/spalling in deck soffit at D/S const. joint - Narrow horz/vert cracks with medium effior deposits in u/s deck fascias - Light honeycombing in deck soffit on u/s extension - Light spalling/scaling to sides of exposed deck surface - Light spalling/abrasion and narrow vert/horz cracks in conc. hand rails		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- NE and SW conc. handrail posts missing. Guiderail at NE end of struct. struck and tipped out (haz markers still attached) no haz markers at SE end of structure - Light potholes and patching on asphalt on deck and approaches		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	2015
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$150
Recommendations:	- Replace with alumin./steel box culvert - In the interim, monitor scour under orig. frame legs, repair conc. handrails and install app./exit guiderail (where possible) c/w haz. markers (maint.) * Bridge office should re-inspect bottoms of orig. frame legs		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	Yes
Additional Observations:	P: Original frame legs, NE/SW handrail ends F1: Remainder - Unchanged from 2012 inspection, add light erosion under D?S rip-rap at corners of structure		

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

- Please provide photos using guidelines below:
- Any item which inspector sees 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