

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06142018-5	
Date: 3/21/2018	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-252 - BRYANT'S COVE BRIDGE		
Route:	70-20	Overall Length:	10.3 m
Year Built:	2000	Est: Yes	Overall Width: 11.1 m
Year Last Rehab.:		Est: No	Roadway Width: 7.5 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.6 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.6 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:	02 - Asphalt	1	5
Alignment Vertical:	02 - Adequate	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of buried/ submerged reinforced concrete frame leg footings.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Narrow vert. cracks in faces of frame legs. - Narrow alligator, horiz./ vert. cracks with light efflor. deposits in 4 wingwalls and corners of frame legs. - Medium erosion along bottom faces of frame legs.		
DECK			
Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	P - Poor	Roadway Condition:	F2 - Fair

Approach Rail: F1 - Fair

Comments: - Handrail, P (west), F2 (east). - Narrow long. cracks with light efflor./ stalactite deposits in deck soffit. - Narrow vert. cracks in exterior deck/ curb fascia. - Narrow trans./ vert. cracks in curb surfaces and interior fascia. - App./ exit guiderail continues to age with medium scrapes, dents, damage and decaying posts. Light spall to curb/ deck soffit above SW wingwall. - Center post on west guiderail/ handrail struck and cracked off. - Medium asphalt/ shoulder/ slope erosion at 4 corners of structure. - Wide transv. cracks with medium sized potholes and long. cracks in asphalt on deck and approaches.

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.8 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Some shifting of rip-rap at 4 corners of structure.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2018	Replacement Year:	2075
Antic. Rehab. Cost:	\$25	Replacement Cost:	\$350
Recommendations:	- Repair west guiderail/ handrail ASAP. - Install new app./ exit guiderail as required. - Re-surface deck and approaches. - Correct erosion problem at 4 corners of structure. - Install extra rip-rap as required at 4 corners of structure.		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	- P (west handrail/ guiderail), - P3 (surface and short sections of approaches). - F2 (remainder). - Unchanged from 2009 and 2011 inspections.		

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