

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09232021-3</b>																	
<b>Date:</b> 1/28/2020	<b>Inspected By:</b> Hunt R	<b>Category:</b> Eng. - Engineering																	
<b>BRIDGE INFORMATION</b>																			
<b>Site:</b>	1-029 - BAY BULLS RIVER BRIDGE																		
<b>Route:</b>	10	<b>Overall Length:</b>	19.7 m																
<b>Year Built:</b>	1965	<b>Est:</b> No	<b>Overall Width:</b> 9 m																
<b>Year Last Rehab.:</b>	2000	<b>Est:</b> No	<b>Roadway Width:</b> 6.3 m																
<b>Region:</b>	AVALON PENINSULA		<b>Sidewalk Width:</b> 0.95 m																
<b>Jurisdiction:</b>	Provincial		<b>Clearance to R.D. or N.W.L.:</b> 5 m																
<b>Type of Structure:</b>	03 - Reinforced Concrete Beam/Slab		<b>Max Depth of N.W.L.:</b> 0.3 m																
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters		<b>Spans:</b>																
<b>Type of Handrail:</b>	01 - Aluminum Rail		<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10</td> <td>4</td> <td>0</td> </tr> <tr> <td>2</td> <td>0</td> <td>5</td> <td>0</td> </tr> <tr> <td>3</td> <td>0</td> <td>6</td> <td>0</td> </tr> </tbody> </table>	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>	1	10	4	0	2	0	5	0	3	0	6	0
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1	10	4	0																
2	0	5	0																
3	0	6	0																
<b>Roadway Surface:</b>	02 - Asphalt																		
<b>Alignment Vertical:</b>	01 - Good																		
<b>Alignment Horizontal:</b>	02 - Adequate																		
<b>Restrictions:</b>	No																		
<b>BRIDGE PHOTOS</b>																			
<div style="display: flex; justify-content: space-around;">   </div>																			
<b>SUBSTRUCTURE</b>																			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F1 - Fair																
		<b>Bearing Seat:</b>	F1 - Fair																
<b>Comments:</b>	- Light scour under ends of footings. - Medium/ severe spalling to ends and center of footings. - Medium spalling to NW end/ center of north footing. - Narrow vert./ horiz. cracks and light spalling with efflor. deposits to abutment faces. - Wide alligator cracks at top of north abutment (NE end) on original section. - Narrow horiz./ vert. cracks and light spalling to four wingwalls. - No visible signs of bearings. Bearing seats in fair condition.																		
<b>SUPERSTRUCTURE</b>																			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F1 - Fair																
<b>Comments:</b>	- Narrow horiz. cracks in 3 deck beams. - Light spall with medium corrosion to exposed reinf. to bottom of U/S exterior beam. - No visible signs of exp. joints (paved over on deck).																		
<b>DECK</b>																			

<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	- Narrow long. cracks, flow lines with light efflor. deposits to deck soffit. - No hazard markers at SE/SW ends. - Medium/ wide trans. cracks in cantilevered deck soffit. - Narrow vert. cracks with some concrete deterioration in in ext. curb fascia. - Medium scaling to U/S curb surface and ext. fascia. - Light scaling/ delamin./ spalling to tops and sides of end blocks. - Unable to see slopes and shoulder due to snow build up		

**HYDROLOGY**

<b>Water Velocity:</b>	0.8 m/s	<b>Ice Problem:</b>	NA - Not Applicable
<b>Water Depth:</b>	0.6 m	<b>Scour Problem:</b>	NA - Not Applicable
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	NA - Not Applicable
<b>Comments:</b>	- Some damage to approach and exit guiderail. - Unable to see slopes and shoulder due to snow build up, assumed same as last inspection		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2022	<b>Replacement Year:</b>	2021
<b>Antic. Rehab. Cost:</b>	\$40	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	- Install missing hazard markers (maint). - Repair damaged guiderail (maint). - Correct all concrete defects. - Correct all slope/ erosion problems. - Install extra rip-rap at structure corners.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Unchanged from 2018 inspection		

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
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**