
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08032021-4</b>	
<b>Date:</b> 7/5/2021	<b>Inspected By:</b> Justine Geddes	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	3-027 - GANDER BAY CAUSEWAY BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	191 m
<b>Year Built:</b>	1968	<b>Est:</b> No	<b>Overall Width:</b> 8.7 m
<b>Year Last Rehab.:</b>	1992	<b>Est:</b> No	<b>Roadway Width:</b> 7.3 m
<b>Region:</b>	CENTRAL WEST	<b>Sidewalk Width:</b>	1.5 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	2.5 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	01 - Concrete	1	34.7
<b>Alignment Vertical:</b>	01 - Good	2	34.7
<b>Alignment Horizontal:</b>	01 - Good	3	34.7
<b>Restrictions:</b>	No	4	34.7
		5	34.7
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	G - Good
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	Erosion at piers below icebreakers, one icebreaker has gone. Should followup with a diving inspection in next few years to confirm condition below. Abutments have previous repairs with some shrinkage cracking		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	Edge girders showing hairline cracking with small staining, suspect shear steel is starting to rust behind concrete. Interior girders in good condition.		
<b>DECK</b>			
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	F1 - Fair

<b>Hand Rail:</b>	F1 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	exposed concrete deck with potholes starting, should be repaired with deck overlay in next few years and consideration given to paving over if evaluated		

**HYDROLOGY**

<b>Water Velocity:</b>	tidal m/s	<b>Ice Problem:</b>	P - Possible Problem
<b>Water Depth:</b>	deep m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	a diving inspection would be beneficial to confirm condition under water and if any scour issues.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2023	<b>Replacement Year:</b>	2040
<b>Antic. Rehab. Cost:</b>	\$400000	<b>Replacement Cost:</b>	\$12000000
<b>Recommendations:</b>	Diving and osim inspection with evaluation of bridge recommended. Possibly rehab may include deck repairs, girder repairs/coatings and pier repairs. replacement costs may go as high as \$16 million.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Narrow bridge, hard to park off shoulder without blocking traffic, sidewalk one side, good visibility and generally traffic is slower. easy to get under abutments, hard to see rest of bridge. Hazards: traffic, deep water, slipping, uneven footing.		

**LEGEND:**

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