
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07262021-13	
Date: 7/5/2021	Inspected By: Justine Geddes	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-059 - WINDMILL BROOK BRIDGE #2 NORTH		
Route:		Overall Length:	23.4 m
Year Built:	1967	Est: No	Overall Width: 10.2 m
Year Last Rehab.:	1985	Est: No	Roadway Width: 9 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	15.9
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	F1 - Fair
Comments:	some small areas of concrete spall		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	U - Uninspectable
Comments:	curbs and deck edges eroding away, edge double tees with significant concrete spall and rusting pretensioning strands at ends. interior Double Tees in generally fair condition. expansion joints if exist are paved over.		
DECK			
Condition:	P3 - Poor	Curbs:	P1 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P1 - Poor

Approach Rail:	P3 - Poor		
Comments:	curbs extremely spalled and losing support to rail and end blocks.		
HYDROLOGY			
Water Velocity:	slow m/s	Ice Problem:	N - No Problem
Water Depth:	1-2 m	Scour Problem:	P - Possible Problem
Waterway:	02 - InAdequate	Debris Problem:	N - No Problem
Comments:	bridge pinches river, suspect will need to be wider for 100 year plus climate change flood waters. possible scour under north footing		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2023
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$1500000
Recommendations:	replace by 2025. May need to reduce to one lane temporarily if deck edges continue to degrade.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	good visibility for traffic and wide enough shoulder to park truck mainly off road. fairly easy to get down all 4 corners, can only get under bridge on south side. hazards: traffic, slipping, stinging plants.		
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.		
PHOTO GUIDELINES:		Category Definitions:	
Inspection Photos:		Maint. - Maintenance.	
Please provide photos using guidelines below:		Eng. - Engineering.	
<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 		Office - Bridge Office.	
INSPECTION PHOTOS			