
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08232021-4	
Date: 7/6/2021	Inspected By: Justine Geddes	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-040 - SOUTHWEST BROOK BRIDGE, LEWISPORTE		
Route:		Overall Length:	23 m
Year Built:	1970	Est: No	Overall Width: 12 m
Year Last Rehab.:		Est: No	Roadway Width: 9.9 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.3 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	1 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	11.7
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	F1 - Fair
Comments:	Abutments, footings and bearing seat in good condition, wingwalls have large areas of spall and exposed rebar, joints leaking somewhat through to the bearing seat		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	Double tees in good condition, except downstream edge which is developing cracks at bearing seat, noticeable leakage through the longitudinal joints and the expansion joints.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair

Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	potholes and cracks starting to develop at joints, bridge needs to be cleaned of salt and sand from previous winters.		

HYDROLOGY

Water Velocity:	slow m/s	Ice Problem:	N - No Problem
Water Depth:	shallow m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	cannot view west foundation completely, however if there is scour it is unlikely to be deep. bridge appears to be pinching river.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2023	Replacement Year:	2031
Antic. Rehab. Cost:	\$150000	Replacement Cost:	\$2000000
Recommendations:	Rehab in next 2-3 years for concrete spall, waterproof and pave and replace joints. Will need to consider replacement year for full rehab scope. Replacement 8-15 years, will depend on downstream edge double tee and if other double tees start to show similar deterioration. replace with concrete arch or precast concrete frame.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	very busy road, although not at high speed. fairly good traffic visibility and able to park mostly off shoulder, sidewalk one side. easy to get down all 4 sides of bridge, but harder to get fully under due to water levels. salmon signs on bridge. Hazards: traffic, slipping.		

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