

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08012024-3	
Date: 7/26/2024	Inspected By: D. Burns/J. Rowe	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-022 - MIDDLE BROOK BRIDGE		
Route:	1	Overall Length:	20 m
Year Built:	1965	Est: No	Overall Width: 45 m
Year Last Rehab.:		Est: No	Roadway Width: 20 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	06 - None	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	11
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Rigid frame structure complete with appropriate wingwalls and abutments. Left side of structure appears top be extended and leaking through the joint where the two structures connect. All wingwalls have cracking with efflorescence seeping through, right side wingwalls are worse than left. Right side parapet also has cracking throughout. All drainage holes are causing visible erosion and staining. Abutment 2 has location of exposed rebar near footing and concrete material has been lost; approximately 1 meter wide and 50mm tall. Approximately 100mm deep.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Leakage between extension joint, with algae and efflorescence staining. Light cracking and efflorescence through soffit. Minor honeycombing of arch.		

DECK			
Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	I - Inapplicable	Roadway Condition:	F2 - Fair
Approach Rail:	I - Inapplicable		
Comments:	Roadway condition is fair, guard rail on either side of roadway in good condition also. Washout on right side shoulder approximately 1 meter deep.		
HYDROLOGY			
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	NA - Not Applicable
Comments:	Abutments have scouring in most areas.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$TBD	Replacement Cost:	\$TBD
Recommendations:	Repair scouring, substructure cracking, and right side shoulder washout.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.