

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08012023-7	
Date: 7/26/2023	Inspected By: Darrell Avery	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	2-090 - TERRA NOVA RIVER BRIDGE		
Route:	310	Overall Length:	74 m
Year Built:	1965	Est: No	Overall Width: 11.7 m
Year Last Rehab.:		Est: No	Roadway Width: 8.3 m
Region:	CENTRAL EAST	Sidewalk Width:	1.6 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	2.5 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	30
Alignment Vertical:	01 - Good	2	30
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments, center pier and wing walls. Medium cracking of abutments and wing walls with efflorescence, some large cracks and spalling on abutment one left side and right side near beam seat.. Staining of abutment walls from previously leaking joints. Erosion at waterline of center pier with a horizontal crack at the waterline. Elastomeric bearing pad are compressed and bulged. Abutment 2 Joint appears to be leaking. the top of center pier has a spall between Girders 5 and 6. There appears to be freshly spalled concrete beneath center pier icebreaker		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	6 AASHTO girders. Some light cracking. Three expansion joints with some minor abrasion damage. Medium cracking and efflorescence of soffit on span 1 and exposed rebar on soffit at left of span 2. Girder 1 has		

longitudinal cracking and spalling on the lower flange. Pavement work is required adjacent to expansion joints to prevent further potholing.			
DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Exposed concrete deck. Abrasion throughout, some delamination near curbs with 5-7 large pothole sections. Aluminum bridge rail with concrete endblocks. Cracking in curbs and sidewalks with some pop-outs from repairs. Asphalt approaches have cracking and pothole patching. The center of span 1 between girders 3 and 4 has signs of leakage through a web shape crack, efflorescence visible from beneath and a 30mm wide by 100mm long crack along the centerline is present on the driving surface. The concrete in the left side gutter is showing signs of concrete erosion.		
HYDROLOGY			
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	1-2.5 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Centre pier appears good from shoreline, but cannot be verified. Located on tidal area.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$70000	Replacement Cost:	\$0
Recommendations:	Repair approach asphalt, concrete deck and concrete surfaces.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:			

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