

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B10042023-7</b>	
<b>Date:</b> 5/28/2023	<b>Inspected By:</b> JDawe	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	TCH-189 - THORBURN ROAD STRUCTURE WEST		
<b>Route:</b>	1	<b>Overall Length:</b>	68.5 m
<b>Year Built:</b>	1998	<b>Est: No</b>	<b>Overall Width:</b> 10.6 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 9.7 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	5.1 m
<b>Type of Structure:</b>	05 - Pre-stressed Concrete Slab	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	01 - Highway Grade Separation	<b>Spans:</b>	
<b>Type of Handrail:</b>	05 - Concrete Barrier	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	02 - Asphalt	1	15.3
<b>Alignment Vertical:</b>	01 - Good	2	28.3
<b>Alignment Horizontal:</b>	01 - Good	3	15.3
<b>Restrictions:</b>	No	4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F1 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	- Rock lined gutter high on one side - Gaps under slope paving - Corner of slope paving cracked - Slope paving on southwest side showing evidence of settlement with narrow traverse cracks. - Bearings have no coating and have medium corrosion.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	Superstructure Condition: P3 (West end) F1 (remainder) - All expansion joints are leaking - Expansion joints have debris in seals and steel is twisted - Cracks in expansion joints - West expansion joint has severe concrete spall underneath on superstructure with efflorescence - Deck soffit has numerous locations with exposed rebar - Angled soffit has narrow vertical cracks from fascia to construction joint on both sides with efflorescence		

<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	I - Inapplicable
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	I - Inapplicable
<b>Approach Rail:</b>	P3 - Poor		
<b>Comments:</b>	- Patching at approach slab shoulder - Patching at expansion joints - East approach slab asphalt has traverse crack - Approach rail missing bolt (exit rail) and appears to have been hit in the past - East guiderail has damaged post - West guiderail structures has a broken post, decaying posts and offset blocks rotated. - All end shoes have severe abrasion and light corrosion - Barrier has longitudinal abrasion marks, map cracking, and narrow vertical hairline cracks in various locations - Fascia has vertical cracks - West approach has a gap in asphalt mats between outside lane and shoulder.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	NA - Not Applicable
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	NA - Not Applicable
<b>Waterway:</b>	03 - Not Applicable	<b>Debris Problem:</b>	NA - Not Applicable
<b>Comments:</b>			
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2024	<b>Replacement Year:</b>	2073
<b>Antic. Rehab. Cost:</b>	\$100000	<b>Replacement Cost:</b>	\$5000000
<b>Recommendations:</b>			
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Hazards: tripping, falling, traffic, slipping Traffic control required for inspection		

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