



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT  
B08012024-2**

Date: 7/31/2024

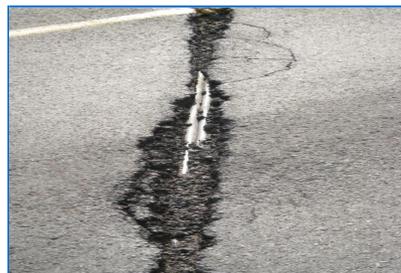
Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-053 - TOWNSITE ROAD OVERPASS				
Route:	210	Overall Length:	33.5 m		
Year Built:	1972	Est: No	Overall Width:	10.6 m	
Year Last Rehab.:		Est: No	Roadway Width:	0 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5.1 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m		
Purpose of Structure:	01 - Highway Grade Separation	Spans:			
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	29.5	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	Yes				
Describe Restrictions:	Posted clearance 5.1m				

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	P1 - Poor
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	All wingwalls have moderate to severe alligator cracking with efflorescence seeping through. Corners of abutments are deteriorated with exposed rebar. Some tiles of the sloped abutments are missing or deteriorated. Abutment faces are painted to cover graffiti, uncertain of any discrepancy underneath paint surface. Bearing pads are severely deteriorated/squat in some areas, mean while bearing seats are still in fair condition.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	6 AASHTO girders with 2 diaphragms. Moderate honeycombing on all girders. Some spalling with exposed rebar on girders 3 and 4 near abutment 1. Other areas of minor exposed rebar on other girders.		

**DECK**

<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	P3 - Poor	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	Expansion joints are paved over, forming cracking in the asphalt and appear to be leaking. Asphalt has several potholes near approach 2, one pothole appears to be retaining water. Approach rail has no structural rail and inadequate spacing; some posts are detached on approach 1, and seem to be shifting down the bank. Curb areas have cracking throughout, handrail has moderate cracking and is very low. Several instances of cracking with efflorescence seeping through the underside of deck.		

**HYDROLOGY**

<b>Water Velocity:</b>	n/a m/s	<b>Ice Problem:</b>	NA - Not Applicable
<b>Water Depth:</b>	n/a m	<b>Scour Problem:</b>	NA - Not Applicable
<b>Waterway:</b>	03 - Not Applicable	<b>Debris Problem:</b>	NA - Not Applicable
<b>Comments:</b>	Roadway overpass structure.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2026	<b>Replacement Year:</b>	2040
<b>Antic. Rehab. Cost:</b>	\$250,000	<b>Replacement Cost:</b>	\$3,000,000
<b>Recommendations:</b>	Fill void under northeast wingwall. Waterproof and repave if capacity exists. Replace bearings, expansion joints and end blocks. Replace curbs and handrails. Implement proper guide rail and structural post on all approaches. Patch wingwalls, abutments and girders.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			

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