

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B02032023-2</b>	
<b>Date:</b> 2/3/2023	<b>Inspected By:</b> Trevor Upshall	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-146 - RUTH AVE - HARBOUR ARTERIAL OVERPASS		
<b>Route:</b>	2	<b>Overall Length:</b>	0 m
<b>Year Built:</b>	1982	<b>Est:</b> No	<b>Overall Width:</b> 0 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 0 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>	0 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	01 - Highway Grade Separation		
<b>Type of Handrail:</b>	04 - Steel Rail	<b>Spans:</b>	
<b>Roadway Surface:</b>	02 - Asphalt	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Vertical:</b>	01 - Good	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Horizontal:</b>	01 - Good	<b>Span No.:</b>	<b>Length</b>
<b>Restrictions:</b>	No		
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	Assumed condition of reinforced concrete abutment/pier footings. North/south bearings in good condition. Narrow vertical/pattern cracks in both concrete piers. Narrow pattern cracks with light efflorescence deposits in all wing walls and ballast walls. Light delamination/spalling with wide horizontal/vertical cracks and exposed reinforcement at NE/SE corner of wing walls and bearing seat. Medium to wide vertical/horizontal cracks in north/south abutment faces with exposed steel staining concrete surface. Concrete debris accumulating on north/south bearing seat. Abutment faces covered in graffiti.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	Light abrasions/scaling to concrete expansion joint dams. Curb/sidewalk expansion joints not visible due to snow.		
<b>DECK</b>			
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	U - Uninspectable
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	Severe spall and medium vertical cracks at NE corner of deck over exterior bearing P3. Narrow pattern cracking in deck soffit near mid span and throughout east/west exterior angled soffit. Narrow vertical cracks in east deck fascia with medium efflorescence leaking through curb/deck construction joint traveling vertical into deck soffit. Medium scaling to exterior concrete curb fascia above wing walls. Light potholes with medium raveling to asphalt surface. Visible sloped paving in fair condition. Erosion of granular material beneath SE sidewalk. Unable to inspect sidewalk/curbs due to snow. NE, NW, SE hazard markers missing.		

<b>HYDROLOGY</b>			
<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>			
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2030	<b>Replacement Year:</b>	2045
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Repair all concrete defects. Install hazard markers at NE, NW, SE corners. Remove debris on bearing seats. Repair erosion beneath sidewalk.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Spall near NE bearing P3, Abutments F1, Remainder F2		

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