

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B08212024-1	
Date: 8/21/2024		Inspected By: D. Burns/B. Grandy		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:	2-166 - ROUNDABOUT BRIDGE (OLD)				
Route:	220		Overall Length:	11.5 m	
Year Built:	1940	Est: No	Overall Width:	6.2 m	
Year Last Rehab.:		Est: No	Roadway Width:	5.8 m	
Region:	CENTRAL EAST		Sidewalk Width:	0 m	
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.:	5 m	
Type of Structure:	04 - Rigid Frame		Max Depth of N.W.L.:	1 m	
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:		
Type of Handrail:	02 - Concrete Rail		<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>
Roadway Surface:	01 - Concrete		1	5.5	4
Alignment Vertical:	01 - Good		2	0	5
Alignment Horizontal:	01 - Good		3	0	6
Restrictions:	No				
BRIDGE PHOTOS					
  					
					
SUBSTRUCTURE					
Condition:	P - Poor		Bearings:	I - Inapplicable	
			Bearing Seat:	I - Inapplicable	
Comments:	Abutments and wingwalls have severe cracking, disintegration, and efflorescence staining. Abutment towards				

right side when looking down-stream has bulging at the base of concrete near bedrock foundation and has visible cavities. This is higher than water levels, monitor in the future.			
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	Deck soffit has severe cracking with seeping efflorescence near abutments. Middle of soffit is in better condition than sides, however still seeping efflorescence with longitudinal cracking. Both fascia have severe disintegration exposing reinforcement.		
DECK			
Condition:	P - Poor	Curbs:	P1 - Poor
Hand Rail:	P - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	I - Inapplicable		
Comments:	All deck features are in poor condition. Downstream rail is completely detached from fascia and is unstable. Upstream concrete rail is missing some members and cracking otherwise. Curbs have disintegration and spalling. Some minor potholes in granular roadway. Located on class 4 unmaintained road. Missing end blocks, guiderail, hazard markers, id signs, warning signs.		
HYDROLOGY			
Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Small river leading into ocean on downstream side.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	2030
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$200,000
Recommendations:	Monitor as required. Add structure not maintained and use at low risk signs. Remove structure when structure no longer serviceable. Replacement year is estimated demolition year.		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	Tall abutments and limited access. Warning that downstream handrail is unstable. Overall in poor condition.		

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