

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08312023-10	
Date: 8/7/2023	Inspected By: Darrell Avery	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	2-008 - PORT BLANDFORD CAUSEWAY BRIDGE		
Route:	233	Overall Length:	83 m
Year Built:	1963	Est: No	Overall Width: 9 m
Year Last Rehab.:	2016	Est: No	Roadway Width: 7.5 m
Region:	CENTRAL EAST	Sidewalk Width:	4 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.:	3 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	23.5
Alignment Vertical:	01 - Good	2	23.5
Alignment Horizontal:	01 - Good	3	23.5
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	P3 - Poor
		Bearing Seat:	F2 - Fair
Comments:	Previous Inspection - Concrete abutments, wing walls and two piers. Piers have significant cracking with efflorescence, disintegration, scaling and erosion. Ice protection plates are not set to sound concrete. Abutments and wing walls have medium to severe cracking with efflorescence. Map cracking of wing walls with scaling and spalling. Elastomeric bearing pads compressed, bulged and cracked. Pier was repaired in 2016 re-hab, poor workmanship but satisfactory results. New inspection - New cracking at abut. #1 & #2 left corner with scaling and spalling. Bridge rehab project in 2016 included Pier repairs - mainly around left(up stream) ice protection plates and concrete surfaces on abutment & wing walls.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	Previous inspection - Five AASHTO girders per span, three spans. Girders have light scaling and cracking with		

some longitudinal cracking in lower parts. Four expansion joints. All were replaced in 2016 re-habilitation. The seal of expansion joint 4 is partially out - approx. 300mm in length.

DECK

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Previous inspection - The ACP wear surface is showing evidence of weakened areas with a high concentration of binder. Some of the hand rail bolts at the expansion Joints are loose and sheared off (Abutment 2 left). New inspection - Asphalt cracking and separation at expansion joint dams. Inter-mitten cracks in new curb surface.		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	P - Possible Problem
Water Depth:	2.3 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Ice breaker on Pier # , left missing.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Check, tighten and replace bolts on handrail. Install icebreaker. Repair abutment corners(concrete surfaces)		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
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Additional Observations: