

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05122021-1	
Date: 4/22/2021	Inspected By: Butler	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	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	P3 - Poor
		Bearing Seat:	F2 - Fair
Comments:	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.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	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:	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).		
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 Pie 1, left missing.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Check, tighten and replace bolts on handrail. Install icebreaker.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:			
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.	NA - Not Applicable.	
G - Good.	P - Poor.		
		C - Unsafe (Closed to Public).	
		U - Uninspectable.	
		I - Inapplicable.	
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● Any item which inspector feels should be documented by photograph ● All items noted above as being P3, P1, P, or C ● Any evidence of known ice, scour, debris, waterway problems 			
INSPECTION PHOTOS			