

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06282019-2	
Date: 6/28/2019	Inspected By: Pickett R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-250 - BUTLERVILLE BRIDGE		
Route:	70	Overall Length:	24.7 m
Year Built:	1965	Est: Yes	Overall Width: 9.5 m
Year Last Rehab.:		Est: No	Roadway Width: 8.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	1 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	5.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	P3 - Poor
Comments:	Original structure extended 1.5m upstream and downstream. Medium erosion to face and tops of abutment footings. Wide vertical cracks in faces of original east abutment. Numerous cracks with effloresce deposits in faces of abutment and piers. Sever erosion at bottom of east abutment. Construction joints at abutment tops and deck handles opening up. South West wingwall has disintegration, severe delamination and spalling. Severe delamination and spalling at base North West wingwall. All wingwalls have numerous cracks.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	No visible signs of expansion joints at abutments. Expansion gap exists over center pier in curbs (paved over on deck). Numerous medium alligator cracks with heavy efflor deposits in most of deck soffit. Spalling to deck soffit at North East.		

DECK			
Condition:	P3 - Poor	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	I - Inapplicable		
Comments:	Medium horizontal vertical cracks with effloresce deposits and spalling to concrete handrails. Numerous transverse cracks in asphalt at end of structure.		
HYDROLOGY			
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Rip rap at South West corner of structure has migrated into river. Medium erosion at North East wingwall.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$150	Replacement Cost:	\$600
Recommendations:	Repair concrete defects and install rip rap.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	Driveways at South East and South West corners.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
		Category Definitions:	
		Maint. - Maintenance.	
		Eng. - Engineering.	
		Office - Bridge Office.	
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			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.