

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08092021-7	
Date: 7/6/2021	Inspected By: Justine Geddes	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-025 - PIKE'S ARM BRIDGE		
Route:		Overall Length:	31.3 m
Year Built:	1966	Est: No	Overall Width: 10 m
Year Last Rehab.:	2000	Est: No	Roadway Width: 7 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.5 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	1	19.9
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:	P3 - Poor
		Bearing Seat:	P3 - Poor
Comments:	abutments and wingwalls have cracking, spalled concrete, some efflorescence		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	girder ends wet and starting to have concrete spall. areas of deck from underneath with efflorescence and water ingress, sides of deck starting to spall. joints leaking/paved over.		
DECK			
Condition:	P3 - Poor	Curbs:	P3 - Poor
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor

Approach Rail:	P1 - Poor		
Comments:	exposed concrete deck with cracking and potholes, water ponding on bridge. curbs edges from underneath starting to spall		
HYDROLOGY			
Water Velocity:	fast/tidal m/s	Ice Problem:	N - No Problem
Water Depth:	deep m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	navigable channel, suspect scour is present.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2023	Replacement Year:	2030
Antic. Rehab. Cost:	\$50000	Replacement Cost:	\$2000000
Recommendations:	superficial rehab only to deck, replace in 5 to 10 years with either an arch or steel panel bridge - consider 1 lane due to low traffic volumes. Diversion will be difficult to place due to powerlines/property, geometry.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	low traffic volumes/speeds, ok visibility, narrow shoulder. cannot get fully under the bridge due to water. hazards: traffic, slipping, uneven footing, falling into water.		
LEGEND:			
Condition Definitions:			
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	Problem Definitions:
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	N - No Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	P - Possible Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		K - Known Problem.
G - Good.	P - Poor.		NA - Not Applicable.
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			