

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09162022-1																	
Date: 7/29/2022	Inspected By: M Button	Category: Office - Bridge Office																	
BRIDGE INFORMATION																			
Site:	4-167 - EAST BRANCH BRIDGE																		
Route:	422	Overall Length:	9.4 m																
Year Built:	1950	Est: No	Overall Width: 11.2 m																
Year Last Rehab.:		Est: No	Roadway Width: 10.7 m																
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m																
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.3 m																
Type of Structure:	03 - Reinforced Concrete Beam/Slab		Max Depth of N.W.L.: 0.2 m																
Purpose of Structure:	03 - Over Navigable Waters		Spans:																
Type of Handrail:	02 - Concrete Rail		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4.8</td> <td>4</td> <td>0</td> </tr> <tr> <td>2</td> <td>0</td> <td>5</td> <td>0</td> </tr> <tr> <td>3</td> <td>0</td> <td>6</td> <td>0</td> </tr> </tbody> </table>	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>	1	4.8	4	0	2	0	5	0	3	0	6	0
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1	4.8	4	0																
2	0	5	0																
3	0	6	0																
Roadway Surface:	02 - Asphalt																		
Alignment Vertical:	01 - Good																		
Alignment Horizontal:	01 - Good																		
Restrictions:	No																		
BRIDGE PHOTOS																			
																			
SUBSTRUCTURE																			
Condition:	P3 - Poor	Bearings:	I - Inapplicable																
		Bearing Seat:	I - Inapplicable																
Comments:	- Both frame legs have severe erosion to disintegration along the waterline only. Remainder in fair condition. - Wingwalls have numerous spalls from delaminations. Various areas disintegrated, P3 to P1. - No bearings or bearing seat, rigid frame.																		
SUPERSTRUCTURE																			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable																
Comments:	- Deck soffit in fair to good to condition. - Curb beams near total disintegration, P. Little concrete remaining and all reinforcement exposed. - No visible expansion joints.																		
DECK																			
Condition:	F1 - Fair	Curbs:	I - Inapplicable																

Hand Rail:	P - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	- Asphalt has severe map cracking on structure and approaches. Settlement over expansion gaps, P3. - No curbs. - Original concrete rail on one side has numerous areas with total disintegration, replace, P1. The other side of the bridge's rail is comprised of several pieces of flex rail. Rail not secured across the structure span and has a large gap between it and the edge of structure. - Guiderail needs replacement. Posts tipped outwards on approach to structure creating a gap between it and the structure rail. Most posts have severe weathering, and various cracks/splits, P1.		

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.1 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- No comment.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2023	Replacement Year:	2030
Antic. Rehab. Cost:	\$250,000	Replacement Cost:	\$1,500,000
Recommendations:	- Add end blocks and curbs. - Replace structure rail. - Replace guiderail complete with regulation post spacing and hazard markers. - Repave structure and approaches. - Repair curb beams and wingwalls. - Consider structure replacement. Can extend life if a major rehab is completed, deck still in good condition.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Bridge overall in poor condition. Deck soffit is in fair to good condition.		

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