

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09162022-2</b>	
<b>Date:</b> 7/29/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-230 - WHITE HILLS ROAD BRIDGE (OLD)		
<b>Route:</b>	430	<b>Overall Length:</b>	10 m
<b>Year Built:</b>	2021	<b>Est:</b> No	<b>Overall Width:</b> 6.1 m
<b>Year Last Rehab.:</b>	1972	<b>Est:</b> No	<b>Roadway Width:</b> 6 m
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2 m
<b>Type of Structure:</b>	03 - Reinforced Concrete Beam/Slab		<b>Max Depth of N.W.L.:</b> 0 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters		<b>Spans:</b>
<b>Type of Handrail:</b>	03 - Timber Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
<b>Roadway Surface:</b>	01 - Concrete	1	10    4    0
<b>Alignment Vertical:</b>	02 - Adequate	2	0    5    0
<b>Alignment Horizontal:</b>	03 - Poor	3	0    6    0
<b>Restrictions:</b>	Yes		
<b>Describe Restrictions:</b>	ON UNMAINTAINED ROAD (Class 4)		
<b>BRIDGE PHOTOS</b>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	I - Inapplicable
<b>Comments:</b>	- Both abutments have light to moderate disintegration on their corners/transition to wingwalls caused from roadway runoff. Abutments overall F2. - Wingwalls have light map cracking with efflorescence near their tops, F1. - No bearing. Light efflorescent leachate between bearing seat area and exterior concrete beams.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P1 - Poor	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	- Exterior concrete rectangular beams delaminated on the bottom flange with various wide cracks due to corrosion to reinforcement. Exterior face have severe disintegration exposing reinforcement, P3 to P1. - Interior two beams in fair with no observable defects, F2.- Deck soffit in fair condition. Numerous wrinkle formations in concrete possible fabric installed on formwork at time of construction. - No visible expansion joints.		
<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	I - Inapplicable
<b>Hand Rail:</b>	P - Poor	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	I - Inapplicable		
<b>Comments:</b>	- No asphalt, gravel road. - Concrete deck covered in thin layer of gravels. - No curbs. - Structure rails in poor condition. Original concrete rail is mostly disintegrated. Flex rails secured to remaining posts, P. - No guiderail.		
<b>HYDROLOGY</b>			

<b>Water Velocity:</b>	0.1 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	1.5 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Deep slow moving water. Abutment has a scour hole. Hard to judge size due to water depth.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2025	<b>Replacement Year:</b>	2035
<b>Antic. Rehab. Cost:</b>	\$100,000	<b>Replacement Cost:</b>	\$1,500,000
<b>Recommendations:</b>	- Replace structure rails and end blocks. May have to add curbs. Add guiderail and hazard markers. Clear overgrowth. Rehab exterior beams. Repair scour. - Complete rehab above to extend life. Replace structure is 10 years or so with a culvert or panel bridge. Maybe able to use existing abutments.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Structure on class 4 road. Structure services a few homes. Structure rails and exterior beams in poor condition.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
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.		
<b>Category Definitions:</b>			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.