




	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12132021-3	
Date: 10/30/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-012 - MAIN WILSON RIVER BRIDGE		
Route:	500	Overall Length:	54.6 m
Year Built:	1995	Est: No	Overall Width: 11.8 m
Year Last Rehab.:		Est: No	Roadway Width: 10.8 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	08 - Steel Bridge	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	1	40
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
<div style="display: flex; justify-content: space-around;">    </div>			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	G - Good
		Bearing Seat:	G - Good
Comments:	- Abutments, wingwalls, bearings and bearing seats in good condition.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	F2 - Fair
Comments:	- Expansion joint seals full of gravel/sand and tops of all expansion joint embedded steel exposed with moderate corrosion. No sealant between expansion joint concrete and abutment backwall. - Exterior curb/soffit and bottom of deck concrete in good condition. - Six girders and their braces have light to moderate surface corrosion. Bearing end of girders and braces painted with small areas of flaking paint and light corrosion, G.		
DECK			
Condition:	F2 - Fair	Curbs:	G - Good

Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Approach/exit rails have some damaged rail sections with some damaged/split posts, connected to end blocks, North and south corner hazard markers missing, east and west corner hazard markers in place, and have collision dampening posts. - End blocks have mild map cracking and spalling to the tops. - Asphalt in fair condition on the approaches, moderate to wide transverse cracks at the joint between the approach slab and deck concrete. No asphalt over structure. - Deck concrete in fair condition, aggregate colors showing throughout. Minor potholes in concrete in a couple locations. No deck drains. - Curbs in good condition with some cracked chaulking. - Structure handrail has minor scrapes and dents throughout, F2.		

HYDROLOGY

Water Velocity:	1 m/s	Ice Problem:	N - No Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Bridge has good rip-rap positioning, no scour.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2025	Replacement Year:	2060
Antic. Rehab. Cost:	\$20,000	Replacement Cost:	\$1,800,000
Recommendations:	- Replace hazard markers. Replace various guiderail posts. Clean expansion joint seals. Seal between expansion joint concrete and abutment backwall on road surface, liquid asphalt or tar. Reseal/replace curb chaulking. Patch concrete deck potholes (small).		

OBSERVATIONS

Overall Condition:	G - Good	Requires Further Inspection:	No
Additional Observations:	- Hazards mild traffic, slopes and traversing rip-rap. Bat feces on bearing seats.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - NO Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- 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