

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08102023-4	
Date: 11/1/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-036 - WEST RIVER BRIDGE		
Route:		Overall Length:	25.7 m
Year Built:	1971	Est: No	Overall Width: 10.5 m
Year Last Rehab.:	1999	Est: No	Roadway Width: 8.9 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4.2 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	03 - Over Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	01 - Concrete	1	16.6 4 0
Alignment Vertical:	01 - Good	2	0 5 0
Alignment Horizontal:	01 - Good	3	0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	P3 - Poor
		Bearing Seat:	P3 - Poor
Comments:	- South abutment – There are several medium cracks propagating from the bearing seat. The abutment wall has moderate to severe disintegration. There is a large crack along the base of the abutment wall. There is moderate erosion spanning the length of the abutment, P3 to F1. - North abutment – There is moderate erosion spanning the length of the abutment. There is severe disintegration on the exteriors of the abutment, extending up to the bearing seat. There is exposed rebar with light corrosion, staining the concrete surface. There are areas of light to moderate delamination. There is a wide lateral crack spanning the length of the abutment, P3. - Wingwalls have light map cracking. Medium map cracking on the previously repaired area of the northwest wingwall, Medium spall on southeast wingwall. Very light spalling throughout all wingwalls F1. - Some bearings are severely deteriorated and as a result the associated girders lay directly on the bearing seat. Remainder of bearing pads show bulging, P3. - Bearing seats have a large amount of debris. There is moderate to severe delamination and spalling at several locations along the bearing seat. P3		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	- Girders are in overall fair condition, F2. - Diaphragms are in overall fair condition. There is light disintegration in local areas, F1. - Deck soffit has medium spalls and delamination throughout. There is exposed rebar with medium corrosion, P3. - Expansion joints have a moderate amount of debris inside the joints. Both joints appear to be leaking, P3.		
DECK			
Condition:	F1 - Fair	Curbs:	P3 - Poor

Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Approach asphalt is in fair condition. Cracking around the expansion joint. Pavement appears to slightly sink adjacent to joints causing an uneven approach and exit, F2 to F1. - Rutting throughout concrete deck, F1. - East sidewalk/curb has moderate disintegration throughout the span. The outer curb fascia is severely disintegrated, exposing the handrail anchors of some posts. There is exposed rebar that has moderate corrosion, P3. - West sidewalk/curb is in fair condition, F1. - Guiderails have medium corrosion in local areas. There are light splits on a number of the posts. Guiderail is connected to the end blocks and most hazard markers are missing. There are some dents throughout the guiderail, F1. - Handrails are in overall fair condition. East handrail may be compromised due to the disintegrated curb, F1. - End blocks have hairline cracking in areas and light disintegration, F1.		

HYDROLOGY

Water Velocity:	0 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Riprap slope has lightly eroded, reducing protection from water.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2028	Replacement Year:	2046
Antic. Rehab. Cost:	\$400000	Replacement Cost:	\$0
Recommendations:	- Recommended to rehab abutments, bearings, bearing seats, expansion joints, and outer curb fascia.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge is in overall fair condition, F1 with local poor areas on the abutment walls, bearing seats and east curb.		

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 sees 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