

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12122022-3	
Date: 10/20/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-025 - WABUSH NARROWS BRIDGE		
Route:		Overall Length:	41.6 m
Year Built:	1996	Est: No	Overall Width: 12.2 m
Year Last Rehab.:		Est: No	Roadway Width: 9.9 m
Region:	LABRADOR		Sidewalk Width: 1.1 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 6.6 m
Type of Structure:	08 - Steel Bridge		Max Depth of N.W.L.: 2.5 m
Purpose of Structure:	03 - Over Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail		Span No.: Length Span No.: Length
Roadway Surface:	01 - Concrete	1	28 4 0
Alignment Vertical:	01 - Good	2	0 5 0
Alignment Horizontal:	01 - Good	3	0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
<div style="display: flex; justify-content: space-around;">    </div>			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- Thin surface repairs to abutments delaminated. Abutments covered in graffiti but no notable defects. - Wingwalls in fair condition. - Bearing seat in good condition with some rust staining from steel girders. - Bearings in fair condition with light cracking. Several bearings not in full contact with the bearing seat due to uneven concrete finish.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor
Comments:	- Girders in good condition. Bearing plates have moderate corrosion. Patina formed over sections not painted. On the north side, steel delamination visible on the bottom flange of some girders. - Deck soffit in good condition. - Expansion joints visibly leaking and causing corrosion to the bearing plates on the bottom of the steel girders.		
DECK			

Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	- Asphalt is rutted on approaches with some isolated potholes. - Exposed concrete deck has potholes/spalls exposing reinforcement. Moderate surface (cover loss) expected from surface wear. All aggregates exposed and cover in areas of potholing/spalls is minimal. - Sidewalk on southwest corner has a large ridge causing a tripping hazard. Curb and sidewalk otherwise in fair condition. - Deck drains partially filled with gravels. - Structure rail has numerous damaged rails, P3. - Guiderail posts are undermining on southwest corner from slope erosion, flex rail in fair condition. Rail connected to end blocks but does not have regulation post spacing. - End blocks have hairline map cracks.		

HYDROLOGY

Water Velocity:	.1 m/s	Ice Problem:	N - No Problem
Water Depth:	3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Abutments out of water with good rip-rap protection. Channel is deep below.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2026	Replacement Year:	2050
Antic. Rehab. Cost:	\$225,000	Replacement Cost:	\$3,500,000
Recommendations:	- Replace 1 hazard marker. - Upgrade post spacing at end block connection. Repair erosion around guiderail posts. - Install run off ditches at structure corners. - Upgrade structure rail to steel rail system. - Repair potholes in exposed concrete deck. - Waterproof and pave structure if capacity exists. - Replace expansion joints. - Complete various concrete repairs. - Clean bridge deck from all gravels and clean deck drains. - Blast clean and re-paint girder bearing plates. - Remove tripping hazard/ridge from southwest side of sidewalk.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge overall in fair condition with poor areas. - Hazards - high traffic area, traffic control needed. Steep slopes and working around water.		

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