

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08102023-6	
Date: 11/1/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-074 - NORTHEAST BROOK BRIDGE		
Route:	433	Overall Length:	37.1 m
Year Built:	1967	Est: No	Overall Width: 8.9 m
Year Last Rehab.:		Est: Yes	Roadway Width: 7.3 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.9 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	03 - Over Navigable Waters		
Type of Handrail:	01 - Aluminum Rail		
Roadway Surface:	02 - Asphalt	Spans:	
Alignment Vertical:	01 - Good	<u>Span No.:</u>	<u>Length</u>
Alignment Horizontal:	01 - Good	<u>Span No.:</u>	<u>Length</u>
Restrictions:	No	1	28.4
		2	0
		3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- East abutment is in fair condition. There are small areas of damage on the exterior corners of the abutment wall with narrow map cracking, F1. Small spots of rust staining at the bottom of the abutment wall. - West abutment is in fair condition. The concrete surface is stained with efflorescence, suspected to be coming from leaking expansion joints, F1. - Wingwalls are in fair condition. There is light to medium map cracking throughout. Medium to large spall on northwest wingwall, F1. - Ballast walls are in fair condition, F1. Inspection limited. - Bearing seats are in fair condition. Limited inspection, F1.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	- Girders are in overall fair condition. There is a wide crack and a moderate spall on the underside of the exterior girders, next to a drainage pipe. The drain appears to be leaking as a result the girder is deteriorating at this location. There is exposed reinforcement with medium corrosion, F1 to P3. - Diaphragms are in fair condition. Small areas of cracking with efflorescence, F1. - Deck soffit is in overall fair condition. Some deterioration and rust staining around drain pipes, F1. - Expansion joints are clogged with debris, P3. - Drains are clogged with debris. Damage around drainage pipes at soffit, P3		
DECK			
Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		

Comments: - Asphalt surface is severely cracked with multiple major potholes. Several areas of asphalt patching around the expansion joints and deck resulting in an uneven driving surface, P3 - Curbs have light to moderate disintegration throughout, F1 to P3. - End blocks are in overall fair condition. There is light map cracking and disintegration in local areas. One end block has severe disintegration with exposed corroded steel, F1 to P3. - Handrails are in fair condition, F2. - Guiderails are in overall fair condition. Damage to east guiderail. F1 to P3.

HYDROLOGY

Water Velocity:	0 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2028	Replacement Year:	2042
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$0
Recommendations: Recommended to repave the asphalt on the deck, repair girder defects, replace deck drains and expansion joints.			

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations: Bridge is in overall fair condition, F1. The wearing surface is very poor and several areas of concrete damage on the exterior girders at the drain pipes, P3.			

LEGEND:

Condition Definitions:

1 - *Good - [discontinued code].
 2 - *Fair - [discontinued code].
 3 - *Poor - [discontinued code].
 4 - *Unsafe - [discontinued code].
 G - Good.

F2 - Fair.
 F1 - Fair.
 P3 - Poor.
 P1 - Poor.
 P - Poor.

C - Unsafe (Closed to Public).
 U - Uninspectable.
 I - Inapplicable.

Problem Definitions:

N - No Problem.
 P - Possible Problem.
 K - Known Problem.
 NA - Not Applicable.

Category Definitions:

Maint. - Maintenance.
 Eng. - Engineering.
 Office - Bridge Office.

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