



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B01302020-8

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-047 - RED HARBOUR RIVER EAST BRIDGE		
Route:	210	Overall Length:	30.8 m
Year Built:	1971	Est: No	Overall Width: 14 m
Year Last Rehab.:	2003	Est: No	Roadway Width: 12.6 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	16
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	P3 - Poor	Bearings:	F2 - Fair
		Bearing Seat:	P3 - Poor
Comments:	Concrete abutments and wingwalls. Some concrete erosion at the footings. Cracking with efflorescence throughout abutments, left side corners disintergrated, nearing girder one seats. Some disintegration of the wingwalls, especially corners where the water flows off road. Rip-rap on left side appears to have washed away, all rip rap steep and unstable. A lot of debris and concrete built up on bearing seat, very wet.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	7 AASHTO girders. Expansion joints are leaking and have significant damage to the road sections - concrete, dams and armour. Severe disintegration around curb sections.		

DECK

Condition:	P3 - Poor	Curbs:	P3 - Poor
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	Concrete deck with asphalt wearing surface. approaches cracked and settled, large bumps. Disintegration of fascia and soffits exterior, underside of deck has significant disintegration and exposed rebar around deck drains, map cracking with efflorescence elsewhere. 4 rail aluminum hand rail with concrete end blocks, missing end caps, some concrete deterioration around anchorages. Approach rail has some post rot. Some surface deterioration right side curb, significant disintegration around curb sections. Hazard marker posts poor. Replace ID signs. Abutment 1 right, rail tipped out adjacent to the endblock.		

HYDROLOGY

Water Velocity:	2.0 m/s	Ice Problem:	N - No Problem
Water Depth:	1.0 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Bedrock foundation, some light scour/erosion noticed at last inspection.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Rehab structure. Latex repairs, expansion joints, deck repairs, curb repairs, repave deck and approaches. Conduct scour inspection. Replace hazard marker posts. Replace ID signs. Repair approach rail.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:			

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

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.