

GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

## BRIDGE INSPECTION REPORT B01302020-20

**Overall Length:** 

**Overall Width:** 

Roadway Width:

Sidewalk Width:

N.W.L.:

Spans:

1

2

3

Span No.:

Clearance to R.D. or

Max Depth of N.W.L.:

Date: 1/30/2020 Inspected By: Alex Ford Category: Eng. - Engineering

## **BRIDGE INFORMATION**

Site: 2-079 - ALLAN'S ISLAND CAUSEWAY BRIDGE

**Route:** 220-19

Year Built: 1986 Est: No
Year Last Rehab.: Est: No

Region: CENTRAL EAST

Jurisdiction: Provincial

Type of Structure: 01 - AASH to Girder

Purpose of Structure: 03 - Over Navigable Waters

Type of Handrail: 01 - Aluminum Rail

Roadway Surface: 01 - Concrete

Alignment Vertical: 01 - Good

Alignment Horizontal: 01 - Good
Restrictions: No

## BRIDGE PHOTOS









26 m

10 **m** 

8.2 m

0 **m** 

1.5 m

2.5 m

Length

0

0

Length Span No.:

4

5

6

18.6

0

0



## **SUBSTRUCTURE**

**Condition:** F2 - Fair **Bearings:** F2 - Fair

Bearing Seat: F2 - Fair

Concrete abutments and wingwalls. Footing one has erosion with exposed rebar. Some cracking of abutment

walls and wingwalls. Some bearing pads squat, exposed steel on pad three abutment two. Navigation channel

	formed with sheet piles, mostly destroyed. Additional armor stone added in 2017.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	6 AASHTO girders, all have significant exposed rebar with rusting, staining and some delaminations and spalls. deck soffits between girder two and three has significant spalling with exposed rebar - heavy rusting. Expansion joints are leaking, significant deterioration around curb sections (fascia/soffit). Deterioration and exposed rebar on the back walls due to leaking joints.		
DECK			
Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Concrete deck with asphalt wearing surface. 4-5 potholes in the deck surface with exposed rebar. Asphalt is potholed/patched with cracking on approaches. 4 rail aluminum system with concrete end blocks, anchor bolts rusting in places. All end blocks have some cracking and deterioration. Approach #2 left, rail is lapped incorrectly. Object markers poor. Expansion Joints have been patched with asphalt.		
HYDROLOGY			
Water Velocity:	m/s	Ice Problem:	N - No Problem
Water Depth:	m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal. Depth and Velocity vary.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Rehab required - latex repairs, expansion joints, curbs, deck, endblocks, repave. Widespread exposed rebar should be addressed. Repair approach #2 left, rail lapping. Replace object markers. Repair broken posts on approach rail.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Navigation lights destroyed. Conduit for fib causing issues.	ore optic line attached to the l	eft side curb. Marine environment is
LEGEND: Condition Definitions:  1 - "Good - [discontinued code]. 2 - "Fair - [discontinued code]. 3 - "Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelir Any nem which inspector in All tems noted above as but any evidence of known ice	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor.	Problem D Public). N - No Prob P - Possibl K - Known NA - Not A <sub>l</sub>	olem. Maint Maintenance. e Problem. Eng Engineering. Problem. Office - Bridge Office.
INSPECTION PHOTOS			

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