GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B11062019-1

Date: 11/6/2019 **Inspected By:** Alex Ford **Category:** Eng. - Engineering

BRIDGE INFORMATION

Site:	2-026 - SALT POND BRIDGE #1		
Route:	220	**Overall Length:**	16.5 **m**
Year Built:	1966 **Est:** No	**Overall Width:**	9.1 **m**
Year Last Rehab.:	1987 **Est:** No	**Roadway Width:**	6.7 **m**
Region:	CENTRAL EAST	**Sidewalk Width:**	0 **m**
Jurisdiction:	Provincial	**Clearance to R.D. or N.W.L.:**	0.5 **m**
Type of Structure:	02 - Double Tee	**Max Depth of N.W.L.:**	1 **m**
Purpose of Structure:	04 - Over Non-Navigable Waters	**Spans:**	
Type of Handrail:	01 - Aluminum Rail		
Roadway Surface:	02 - Asphalt		
Alignment Vertical:	01 - Good		
Alignment Horizontal:	01 - Good		
Restrictions:	No		

Span No.:	Length	Span No.:	Length
1	10.4	**4**	0
2	0	5	0
3	0	**6**	0

BRIDGE PHOTOS






SUBSTRUCTURE

Condition:	P - Poor	**Bearings:**	P - Poor
		Bearing Seat:	P - Poor
Comments:	Significant deterioration of all components. Abutments have large cracking throughout and significant deterioration with concrete loss at all corners. The bearing seats are deteriorated to the point of bearing loss at some girder ends.		

SUPERSTRUCTURE

Condition:	P - Poor	**Expansion Joints:**	P - Poor
Comments:	Significant deterioration on most double tee girders, especially at the ends where some have concrete loss along the bottom edges near the bearing seats, compromising the bearing area. It appears some girders may be hanging from the deck slab with no contact with the bearing area. Both expansion joints are leaking badly and have been damaged by plow equipment.		

DECK

Condition:	P3 - Poor	**Curbs:**	P3 - Poor
Hand Rail:	F2 - Fair	**Roadway Condition:**	P3 - Poor
Approach Rail:	I - Inapplicable		
Comments:	Concrete deck with asphalt wearing surface. Some areas are leaking through deck, evidence of leakage on the underside. Aluminum hand rail and concrete end blocks in fair condition. Cracking and deterioration along sections of the curb. Roadway rough, especially at approaches.		

HYDROLOGY

Water Velocity:	0.5 **m/s**	**Ice Problem:**	N - No Problem
Water Depth:	Tidal **m**	**Scour Problem:**	N - No Problem
Waterway:	01 - Adequate	**Debris Problem:**	N - No Problem
Comments:	Tidal zone - water depths vary 0.3m to 1.5m		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2019	**Replacement Year:**	2019
Antic. Rehab. Cost:	$0	**Replacement Cost:**	$500000
Recommendations:	This structure should be considered for immediate replacement. Propose using two aluminum pipe arch structures or an aluminum box culvert with full invert as replacement structure.		

OBSERVATIONS

Overall Condition:	P - Poor	**Requires Further Inspection:**	No
Additional Observations:			

LEGEND:

Condition Definitions:
1 - *Good - [discontinued code].
2 - *Fair - [discontinued code].
F2 - Fair.
F1 - Fair.
C - Unsafe (Closed to Public).
U - Uninspectable.

Problem Definitions:
N - No Problem.
P - Possible Problem.

Category Definitions:
Maint. - Maintenance.
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 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