

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09032021-1	
Date: 3/12/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-362 - DUMP ROAD UNDERPASS - ARGENTIA		
Route:	100	Overall Length:	35.1 m
Year Built:	1965	Est: Yes	Overall Width: 15.15 m
Year Last Rehab.:		Est: No	Roadway Width: 13.45 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.85 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0 m
Purpose of Structure:	01 - Highway Grade Separation	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	8.6
Alignment Vertical:	01 - Good	2	14
Alignment Horizontal:	02 - Adequate	3	8.6
Restrictions:	No	6	0
			0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- Assumed condition of buried reinf. conc. abut. and pier footings - Top north abut. footing partially exposed. - Numerous narrow/wide, horiz./vert. cracks in faces of abutments and wingwalls. - Narrow horiz./vert. cracks in pier caps. - Medium delamin./spalling with medium rusting to exposed reinf. on bottom of pier caps. -medium delamin./spalling/disintegration with medium rusting to exposed reinf. at SE abut. corner. - Asphalt and foam bearings continue to age and break down		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Hairline alligator cracks in 4 end blocks. - Asphalt impregnated board exp. joints - Gaps in curbs & sidewalks beginning to wear		
DECK			

Condition:	F1 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	- No north hazard markers (posts still in place). - Medium delamin./spalling/disintegration with medium rusting to exposed reinf. to SE end of deck soffit. - Medium spalling to east edge of deck soffit (north span). - Numerous light rust stains on deck soffit. - Medium trans./vert. cracks in curb surfaces and fascia. - Wide horiz. cracks in deck fascia. - Wide long. cracks with medium efflor./stalactite deposits along center of deck soffits at south and center spans. - Asphalt spacing off on south approach slab		

HYDROLOGY

Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:	- Medium shoulder/asphalt erosion at corners of structure. - Medium trans. cracks in asphalt at exp. joint locations. Asphalt spalling off on south app. slab. - Structure has been struck underneath (center span, east side).		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2022	Replacement Year:	2030
Antic. Rehab. Cost:	\$80	Replacement Cost:	\$2500
Recommendations:	- Repair all concrete defects in pier caps and deck soffit. Correct erosion at shoulders/corners. - Monitor exp. joints/bearings. - Install north hazard markers (maint).		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Unchanged from 2018 inspection.		

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