Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDO	BRIDGE INSPECTION REPORT B11182021-3				
Date: 10/22/2021	Inspected By: Mike Button			Category: Office - Bridge Office				
BRIDGE INFORMATION								
Site:	1-014 - ANGEL'S COVE BI	RIDGE						
Route:				Overall Lenç	gth:	21.4 m		
Year Built:	1969	Est: No		Overall Widt	:h:	9 m		
Year Last Rehab.:		Est: No		Roadway Wi	idth:	7.5 m		
Region:	AVALON PENINSULA			Sidewalk Wi	dth:	0 m		
Jurisdiction:	Provincial			Clearance to N.W.L.:	R.D. or	5.7 m		
Type of Structure:	02 - Double Tee			Max Depth o	of N.W.L.:	0.5 m		
Purpose of Structure:	04 - Over Non-Navigable W	Vaters		Spans:				
Type of Handrail:	03 - Timber Rail			Span No.:	Length	Span No.:	Length	
Roadway Surface:	02 - Asphalt			1	9.4	4	0	
Alignment Vertical:	02 - Adequate			2	0	5	0	
Alignment Horizontal:	03 - Poor			3	0	6	0	
Restrictions:	No							
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SUBSTRUCTORE								
Condition:	F1 - Fair	E	Bearings:	U-U	ninspectab	le		
Comments:	Bearing Seat: F1 - Fair South abutment built on bedrock and has light efflorescence coming from the footing to abutment construction joint. All abutment corners have a medium crack with efflorescent build up propagating from the bearing seat on steep angle to the abutment exterior corner Northwest and southeast wingwalls have moderate map cracking with efflorescence. Northeast wingwall has light vertical cracking and efflorescence North abutment poured on bedrock and has moderate scour throughout the length of the footing, F1. Footing construction joint opening up on the northeast corner.							
SUPERSTRUCTURE								
Condition:	F1 - Fair		Expansion Joints:	F1 - F	air			
Comments:	- Double tees and the bottom of precast sections have rebar exposed throughout. Areas around deck drains has moderate spalling and severe corrosion to exposed rebar. Some locations around the mid transverse point of the bridge have heavy rust-stain leakage between pre-cast sections No visible leakage from bearing seats to							

	indicate leaking expansion joints, F1.						
DECK							
Condition:	P3 - Poor	Curbs:	P3 - Poor				
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor				
Approach Rail:	P3 - Poor						
Comments:	- Approach/exit guiderail in fair condition, connected to end blocks, complete with energy dampening posts prior to end blocks and are heavily overgrown with alders. P3 due to overgrowth. No hazard markers Asphalt on structure and approaches has numerous potholes, P3 Handrails in fair condition but have several dent/bends and twists Roadway curbs buried in sand/gravel with mild vegetation growth and were uninspectable, P3 Both fascia's construction joint between the deck and pre-cast double tee sections have moderate rust staining with efflorescent stalactites hanging from the joint, indicating a corrosion path through the deck/curb, P3. Leakage likely accelerated by the gravel/salt deposits against the curbs on the roadway surface Both fascia's/curb exterior has moderate horizontal cracking with efflorescence.						
HYDROLOGY							
Water Velocity:	0.7 m/s	Ice Problem:	N - No Problem				
Water Depth:	0.5 m	Scour Problem:	K - Known Problem				
Waterway:	01 - Adequate	Debris Problem:	N - No Problem				
Comments:	- Moderate scour on the north abutment. Existing rip-rap has migrated into channel or has been washed away.						
REPLACEMENT/REHAB	ILITATION						
Next Rehab. Date:	2022	Replacement Year:	2030				
Antic. Rehab. Cost:	\$100,000	Replacement Cost:	\$1,300,000				
Recommendations:	- Need a bush clearing contract around structure/approaches. Install hazard markers Remove gravel against curbs to remove the curbs from an extreme chloride environment. Remove vegetation atop curbs. Repair curb concrete defects, if any, after removal of gravels Resurface structure and approaches Repair scour under the north abutment and place hydraulic rip-rap Chaulk expansion joint gaps in curb.						
OBSERVATIONS							
Overall Condition:	F1 - Fair	Requires Further Inspection:	No				
Additional Observations:	- Alignment from both ends of the structure creates blind hills & turns Hazards, medium traffic, very steep slopes and movable rocks down the slope Old structure just upstream.						
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 guidelin Please provide photos using guidelin Please provide photos using guidelin	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. esis spould ge documented by photograph	Problem Public). N - No P P - Poss K - Knov NA - Not	a Definitions: Category Definitions: roblem. Maint Maintenance. ible Problem. Eng Engineering. wn Problem. Office - Bridge Office. t Applicable.				
An items noted apove 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.