Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDG	BRIDGE INSPECTION REPORT B12142021-1					
Date: 10/31/2021	Inspected By: Mik	e Button	Category: Office - Bridge Office						
BRIDGE INFORMATION	1								
Site:	5-026 - ASHUNIPI R	IVER BRIDGE							
Route:	500		C	Overall Length:		145.5 m			
Year Built:	1985	Est: No	(Overall Width:		10.3 m			
Year Last Rehab.:		Est: No	F	Roadway Wi	idth:	8.5 m			
Region:	LABRADOR		5	Sidewalk Wi	dth:	0 m			
Jurisdiction:	Provincial			Clearance to R.D. or N.W.L.:		0 m			
Type of Structure:	08 - Steel Bridge		Γ	Max Depth o	of N.W.L.:	1.6 m	1.6 m		
Purpose of Structure:	03 - Over Navigable	Waters	S	Spans:					
Type of Handrail:	01 - Aluminum Rail		<u>:</u>	Span No.:	<u>Length</u>	Span No.:	<u>Length</u>		
Roadway Surface:	01 - Concrete			1	48	4	0		
Alignment Vertical:	01 - Good		:	2	0	5	0		
Alignment Horizontal:	01 - Good		:	3	0	6	0		
Restrictions:	No								
BRIDGE PHOTOS									
	2005/10/24		2006/10/24			U Lando	2006/10/24		
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SUBSTRUCTURE	F2 - Fair	Be Be	earings: earing Seat:	U - Ui U - Ui	ninspectab	ele ele			
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SUBSTRUCTURE Condition:	F2 - Fair - East abutment has generally in good co erosion to concrete limited to binoculars abutment drains tow light to mild map cra abutment bearing se	Be a cold joint below the bear indition. Wingwalls have lig exposing some aggregate from the shoreline Wes vards the bearing seat. Riv icking with an opening cor eat appears to be delamina	earings: earing Seat: aring seat on the sought to mild map crack s. Nose steel in good t abutment has moder rer side face concre- ustruction joint A p ating looking from b	U - Ur U - Ur U - Ur utheast correcting Both od condition w derate width the generally boatch on the s	ninspectab ninspectab er. River si piers in fai with mild co vertical cra in good con southeast s	de face conc r condition. Morrosion. Insp ucks propagat ndition. Wing surface of the	rete fild waterlind pection ting from the walls have e east		
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Comments:	abutments with moderate corrosion through flaking paint. Full moment connections have no missing bolts on abutment to pier spans. No access to pier to pier span Expansion joint seals broken/pushed through over both abutments. All exterior curb expansion joint gaps have no/damaged chaulking Bottom of deck and soffit in good condition. No access under deck for pier to pier span Fascia's have mild hairline map cracking across the structure on both the north and south sides.							
DECK								
Condition:	F2 - Fair	Curbs:		F2 - Fair				
Hand Rail:	P3 - Poor	Roadway	Condition:	F1 - Fair				
Approach Rail:	P3 - Poor							
Comments:	- Approach/exit rails have isolated damage to rails with several damaged/split posts. Posts are burnt on the northwest exit (vehicle fire). All bolts are missing (never drilled) to connect rails to end blocks. Hazard markers in place on the west side and missing on the east side. Rails do not have collision dampening posts prior to end blocks End blocks have mild map cracking and some spalling to their tops Asphalt in fair condition on the approach to the structure. Asphalt joint to approach slab opened up on each side of the structure and forming potholes, P3. Asphalt burnt on northwest exit. No asphalt over structure or approach slabs Deck concrete in fair condition, aggregate colors showing throughout. Structure has deck drains Roadway curbs in fair condition with several small spalls and scrapes from the flyer Structure handrail has scrapes and dents throughout. Rail detached from posts on the northwest and southwest corners. Four posts torn and twisted near mid span on the north side. Several rail joiners missing.							
HYDROLOGY								
Water Velocity:	0.5 m/s	Ice Proble	m:	N - No Prob	lem			
Water Depth:	Deep m	Scour Pro	blem:	P - Possible	Problem			
Waterway:	01 - Adequate	Debris Pro	blem:	N - No Prob	lem			
Comments:	- Water about 5-6m below structure. East abutment out of water by several meters with heavy brush growth between it and the river. West abutment marginally out of water with just enough room to walk between the concrete and water. Rip-rap needs repair on southwest corner. Piers are a potential candidate for a diving inspection.							
REPLACEMENT/REHAB	ILITATION							
Next Rehab. Date:	2022	Replacem	ent Year:	2050				
Antic. Rehab. Cost:	\$75,000	Replacem	ent Cost:	\$5,000,000				
Recommendations:	- Replace both expansion joint seals. Install chaulking on all exterior curb expansion gaps (missing or severely cracked). Fill asphalt crevasse/foundering at approach slab joints. Install extra posts/collision dampening posts prior to end blocks and connect the guiderail to the end blocks. Replace other guiderail and posts as required. Replace east hazard markers. Replace cracked handrail posts, and replace/re-secure handrail sections as required.							
OBSERVATIONS								
Overall Condition:	F2 - Fair	Requires I Inspectior		No				
Additional Observations:	- Hazards, mild slopes a shoreline and walking a	and traffic. East pier has remna across the deck.	ints of a birds	nest on the sout	h side. Inspection limited to			
EGEND: ondition Definitions: 1 - 'Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. HOTO GUIDELINES: <u>Ispection Photos</u> : Please provide photos using guideling	F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.	C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable.	N - No F P - Poss K - Kno	<u>n Definitions:</u> Problem. sible Problem. wn Problem. t Applicable.	Category Definitions: Maint Maintenance. Eng Engineering. Office - Bridge Office.			
Please provide photos using guidelin Any item which inspector m All items noted above as be Any evidence of known ice	eeis snouia pe aocumentea by pi eing P3, P1, P, or C	notograpn						

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