Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B07242018-10					
Date: 5/10/2018	2018 Inspected By: Chris Lyver			Category: Eng Engineering				
BRIDGE INFORMATION								
Site:	1-226 - MANUELS RIVER	R BRIDGE - CBS BYPAS	S (WEST)					
Route:			C	verall Leng	gth:	31 m		
Year Built:	1996	996 Est: No Overall Width:		h:	13 m			
Year Last Rehab.:		Est: No	R	loadway Wi	dth:	12.1 m		
Region:	AVALON PENINSULA			Sidewalk Width:		0 m		
Jurisdiction:	Provincial			Clearance to R.D. or N.W.L.:		9 m		
Type of Structure:	01 - AASH to Girder			Max Depth of N.W.L.:		0.5 m		
Purpose of Structure:	04 - Over Non-Navigable	S	pans:					
Type of Handrail:	05 - Concrete Barrier		<u>s</u>	Span No.:	Length	Span No.:	Length	
Roadway Surface:	02 - Asphalt		1		0	4	0	
Alignment Vertical:	01 - Good		2	2	0	5	0	
Alignment Horizontal:	01 - Good		3	5	0	6	0	
Restrictions:	No							
BRIDGE PHOTOS								
	12-10-2004 10 10		. 10.2008 10:19					
SUBSTRUCTURE								
Condition:	F2 - Fair	Bearin	gs:	F2 - F				
		Bearin	g Seat:	F2 - F	air			
Comments:	 Assumed condition of bulling in some bear wide vert. cracks with light these areas also). 	aring pads (access to bea	rings and seats	restricted d	ue to low c	learance) M	edium/	
SUPERSTRUCTURE								
Condition:	F2 - Fair	Expan	sion Joints:	F1 - F	air			
Comments:	- Medium rusting to girder hold downs at bottom centers of all girders Exp. joint dams rutted and wearing with minor damage to assemblies Girders and diaphragms remain in fairly good condition Majority of pigeon screens along bottoms of girders and in front of bearing seats missing, remaining screens rusting heavily (pigeons nesting on girders and bearing seats).							

Condition:	F2 - Fair	Curbs:	I - Inapplicable					
Hand Rail:	F2 - Fair	Roadway Condition:	I - Inapplicable					
Approach Rail:	P1 - Poor							
Comments:	- Approach rail: P1 (NW/SE exit), F2 (remainder) Surface: P1 (deck and east app.), F2 (remainder) No hazar markers at SE and NW ends Medium trans. crack in asphalt along edge of east app. slab Numerous hairline alligator/ pattern cracks in barrier walls No chalking in control joints in barrier walls Moderate damage to NW exit guiderail. Severe damage to SE exit guiderail Asphalt spalled off deck and approach slabs at various locations Asphalt rutted on deck and approaches.							
HYDROLOGY								
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem					
Water Depth:	0.4 m	Scour Problem:	N - No Problem					
Waterway:	01 - Adequate	Debris Problem:	N - No Problem					
Comments:	- Moderate slope erosion at bottom of MSE wall (NE end) Moderate slope erosion at bottom of NW slope on Rte. 2 (erosion undermining bottom of NW rock embedded gutter).							
REPLACEMENT/REHAB								
Next Rehab. Date:	2021	Replacement Year:	2046					
Antic. Rehab. Cost:	\$150	Replacement Cost:	\$1500					
Recommendations:	- Install missing hazard markers and replace damaged guiderail Correct slop erosion at NW slope and bottom of east MSE wall Replace exp. joints (in the interim, clean out existing exp. joint seal) Resurface deck and approaches. Re-waterproof deck Install new pigeon screens along bottoms of girders and in front of bearing seats Chalk control and exp. joints in barrier walls.							
OBSERVATIONS								
Overall Condition:	P1 - Poor	Requires Further Inspection:	No					
Additional Observations:	- P1 (deck and east appro	oach, NW and SE exit guiderail) F2 (rema	inder) Unchanged from 201	1 inspection.				
EGEND: condition Definitions: 1 - "Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. HOTO GUIDELINES: spection Photos:	F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.	C - Unsafe (Closed to Public). N - No F U - Uninspectable. P - Poss I - Inapplicable. K - Kno NA - No	<u>Definitions:</u> Category Definitions: Toblem. Maint Maint. Eng Engine wn Problem. Office - Bridg Applicable.	finitions: tenance. pering. je Office.				
Please provide photos using guidelin Any item which inspector t All items noted above as b Any evidence of known ice	eina P3. P1. P., or C	- <u>3</u>						