

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B07122022-3	
Date: 5/29/2022		Inspected By: M Button		Category: Office - Bridge Office	
BRIDGE INFORMATION					
Site:		TCH-144 - HARBOUR ARTERIAL OVERPASS WEST - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	P3 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	- East abutment has moderate width vertical cracks across the face of the abutment. Bearing seat is damp from the leaking expansion joint above. All bearings have light to moderate bulging with splits, F1. All bearing are undersized. - Slope paving severely damaged around the abutment, P3. Southeast wingwall has light disintegration with light efflorescent leachate along the construction joint to the curtain wall. Southwest wingwall ok. - West abutment has moderate width vertical cracks across the face of the abutment. Bearing seat is damp from the leaking expansion joint above. All bearings have light to moderate bulging with some minor splits, F1. All bearings undersized. - Southwest wing wall has isolated locations of spalling over the curtain wall. - **All pier components not inspected due to lack of traffic control**.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor		
Comments:	- East girder steel bearing contact plates have light to moderate corrosion, F1. - West girder steel bearing contact plates have severe corrosion with delaminations, P3. - Girders in fair condition overall, some hairlines to moderate cracks in isolated locations. No cracks are structural in nature. - Some diaphragms have small spalls with severe corrosion to reinforcement. - Deck soffit has hairline map cracking with isolated locations of delaminations and is in fair condition. - East expansion joint seal is full of gravel and suspected to be leaking. End dam has severe spalling with damage to the armor plating, P3. - West expansion joint seal is full of gravel and suspected to be leaking. Chaulking cracked down over fascias. - The south fascia has isolated areas of rust staining with an area over the southeast curtain wall with moderate spalling. - The north fascia/deck soffit intersection has numerous locations of spalling exposing reinforcement, P3. - **Girders & deck soffit not inspected around the pier due to lack of traffic control**.				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	P3 - Poor	Roadway Condition:	F1 - Fair		
Approach Rail:	F1 - Fair				
Comments:	- Hazard markers in place. - Guiderails in fair condition. - Structure rails ok overall but two sections are severely damaged. One on the northwest corner and one at about mid-span on the south side. - End blocks have moderate to severe width map cracking with some isolated spalls, P3. - Concrete exposed deck no asphalt. Deck has isolated locations of cracking. All aggregate colors exposed indicating a worn surface. - South curb has light to moderate spalling exposing reinforcement in isolated locations, P3. North curb in fair condition.				
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:	- Not applicable.				
REPLACEMENT/REHABILITATION					

Next Rehab. Date:	2025	Replacement Year:	2045
Antic. Rehab. Cost:	\$250,000	Replacement Cost:	\$3,000,000
Recommendations:	- Repair structure handrail. Patch curbs/soffit, creep blocks and locations on wingwalls. Replace both expansion joints and re-chaulk curb areas. Replace bearings. Potentially replace end blocks. Repair slope paving.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Bearings, curbs, expansion joints, end blocks and sections of railing P3, F1 remainder. Hazards heavy traffic. Traffic control or a road shut down is needed for inspection. *** Pier and surrounding areas not inspected due to lack of traffic control on TCH.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.