

| | | | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|--|
|  | | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | | BRIDGE INSPECTION REPORT B02012024-7 | |
| Date: 11/24/2023 | | Inspected By: Strugnell | | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | | | |
| Site: | | 3-047 - BAY D'ESPOIR CAUSEWAY BRIDGE - R361 | | | |
| SUBSTRUCTURE | | | | | |
| Condition: | P3 - Poor | Bearings: | F2 - Fair | | |
| | | Bearing Seat: | F2 - Fair | | |
| Comments: | Severe undermining at abutment two with piles visible, wide cracks in both abutments, pattern cracking in wingwalls with efflorescence , wide cracks in piers with large spalls at water level, concrete disintegration at pier caps | | | | |
| SUPERSTRUCTURE | | | | | |
| Condition: | F2 - Fair | Expansion Joints: | P3 - Poor | | |
| Comments: | Expansion joints full of sand with steel armor damaged in places, asphalt potholes/patches around joints, concrete joint dams damaged and paved over, expansion joint leaking during inspection | | | | |
| DECK | | | | | |
| Condition: | F1 - Fair | Curbs: | P3 - Poor | | |
| Hand Rail: | F2 - Fair | Roadway Condition: | P3 - Poor | | |
| Approach Rail: | F2 - Fair | | | | |
| Comments: | Large spall in curbs with rebar visible, asphalt potholes/patches in deck and approaches very rough ride, approach rail too low, wide cracks in curbs, underside of deck looks ok from what could see, need a boat or bucket truck | | | | |
| HYDROLOGY | | | | | |
| Water Velocity: | 0 m/s | Ice Problem: | P - Possible Problem | | |
| Water Depth: | 0 m | Scour Problem: | K - Known Problem | | |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem | | |
| Comments: | Possible ice problem no ice deflectors on piers, water flowing very fast during inspection, major scour/undermining at abutment two | | | | |
| REPLACEMENT/REHABILITATION | | | | | |
| Next Rehab. Date: | | Replacement Year: | | | |
| Antic. Rehab. Cost: | \$0 | Replacement Cost: | \$0 | | |
| Recommendations: | Rehab curbs, abutments/wingwalls, piers, replace expansion joints, repair deck and waterproof and pave deck and approaches, place rip rap at abutments and piers | | | | |
| OBSERVATIONS | | | | | |
| Overall Condition: | P3 - Poor | Requires Further Inspection: | Yes | | |
| Additional Observations: | Salmon river, no ice deflectors on piers, requires diving inspection to see if any scour/undermining at piers, very fast flow during inspection | | | | |