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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Infrastructure |                     | <b>BRIDGE INSPECTION REPORT</b><br><b>B06042025-9</b> |  |
| Date: 5/25/2025                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Inspected By: S Walsh/T Upshall                                                                  |                     | Category: Office - Bridge Office                      |  |
| <b>BRIDGE INFORMATION</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Site:                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TCH-181 - PORTUGAL COVE OVERPASS EAST - R1                                                       |                     |                                                       |  |
| <b>SUBSTRUCTURE</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Condition:                                                                        | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bearings:                                                                                        | P3 - Poor           |                                                       |  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Bearing Seat:                                                                                    | F2 - Fair           |                                                       |  |
| Comments:                                                                         | All wingwalls are in fair condition with narrow cracking throughout. Wide horizontal cracks between different concrete pours. Severe corrosion with 10% section loss on all bearings. Pier bearings have medium corrosion throughout, inspection is limited due to restricted access. Protective coating is peeling off all bearings. Elastomeric part of pot bearings starting to release on several bearings. Ballast walls and abutment walls in fair condition with narrow cracking throughout. Pier columns are in fair condition, no defects observed. Severe erosion at southeast corner, undermining on the sloped paving due to roadway runoff. |                                                                                                  |                     |                                                       |  |
| <b>SUPERSTRUCTURE</b>                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Condition:                                                                        | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Expansion Joints:                                                                                | F1 - Fair           |                                                       |  |
| Comments:                                                                         | Light efflorescence at concrete joint on northwest fascia. Narrow vertical cracking throughout both fasciae. Deck soffit is in good condition, no defects observed. Medium corrosion on expansion joints, seal filled with debris.                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |                     |                                                       |  |
| <b>DECK</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Condition:                                                                        | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Curbs:                                                                                           | F2 - Fair           |                                                       |  |
| Hand Rail:                                                                        | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Roadway Condition:                                                                               | P3 - Poor           |                                                       |  |
| Approach Rail:                                                                    | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                     |                                                       |  |
| Comments:                                                                         | Severe rutting observed in the wearing surface with some minor potholes. Barriers have narrow vertical cracks throughout with minor efflorescence. Caulking is cracked and damaged at all expansion joint and barrier openings. Approach railing is in fair condition.                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |                     |                                                       |  |
| <b>HYDROLOGY</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Water Velocity:                                                                   | 0 m/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ice Problem:                                                                                     | NA - Not Applicable |                                                       |  |
| Water Depth:                                                                      | 0 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Scour Problem:                                                                                   | NA - Not Applicable |                                                       |  |
| Waterway:                                                                         | 03 - Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Debris Problem:                                                                                  | NA - Not Applicable |                                                       |  |
| Comments:                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| <b>REPLACEMENT/REHABILITATION</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Next Rehab. Date:                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Replacement Year:                                                                                |                     |                                                       |  |
| Antic. Rehab. Cost:                                                               | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Replacement Cost:                                                                                | \$0                 |                                                       |  |
| Recommendations:                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| <b>OBSERVATIONS</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |                     |                                                       |  |
| Overall Condition:                                                                | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Requires Further Inspection:                                                                     | No                  |                                                       |  |
| Additional Observations:                                                          | P3 bearings and rutting in the wearing surface. F1 Expansion joints, remainder is F2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                  |                     |                                                       |  |