




| | | | |
|---|---|--|---------------|
|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B08232021-5 | |
| Date: 7/6/2021 | Inspected By: Justine Geddes | Category: Office - Bridge Office | |
| BRIDGE INFORMATION | | | |
| Site: | 3-056 - PETER'S ARM BROOK BRIDGE #2 BOTWOOD | | |
| Route: | 350 | Overall Length: | 29 m |
| Year Built: | 1970 | Overall Width: | 12.5 m |
| Year Last Rehab.: | | Roadway Width: | 10 m |
| Region: | CENTRAL WEST | Sidewalk Width: | 1 m |
| Jurisdiction: | Provincial | Clearance to R.D. or N.W.L.: | 2.5 m |
| Type of Structure: | 01 - AASH to Girder | Max Depth of N.W.L.: | 2 m |
| Purpose of Structure: | 04 - Over Non-Navigable Waters | Spans: | |
| Type of Handrail: | 04 - Steel Rail | Span No.: | Length |
| Roadway Surface: | 02 - Asphalt | 1 | 24 |
| Alignment Vertical: | 01 - Good | 2 | 0 |
| Alignment Horizontal: | 01 - Good | 3 | 0 |
| Restrictions: | No | Span No.: | Length |
| | | 4 | 0 |
| | | 5 | 0 |
| | | 6 | 0 |
| BRIDGE PHOTOS | | | |
|  | |  | |
| SUBSTRUCTURE | | | |
| Condition: | F1 - Fair | Bearings: | F1 - Fair |
| | | Bearing Seat: | F2 - Fair |
| Comments: | Generally good, some small areas of scour that should have tremie concrete added at some point. bearings are probably undersized but no signs of issues | | |
| SUPERSTRUCTURE | | | |
| Condition: | F2 - Fair | Expansion Joints: | F2 - Fair |
| Comments: | generally good, one girder needs to be repaired due to area of stony concrete leaving voids. may need additional deck drain due to some water seepage on upstream side. | | |
| DECK | | | |
| Condition: | F1 - Fair | Curbs: | F1 - Fair |

| | | | |
|-----------------------|--|---------------------------|-----------|
| Hand Rail: | F1 - Fair | Roadway Condition: | F1 - Fair |
| Approach Rail: | F1 - Fair | | |
| Comments: | some water ponding on deck, consider additional deck drains in future rehabs. could do with asphalt drains/curbs to move water away from wingwalls, recommend this is tried before installing rock lined gutters | | |

HYDROLOGY

| | | | |
|------------------------|--|------------------------|-------------------|
| Water Velocity: | medium m/s | Ice Problem: | N - No Problem |
| Water Depth: | medium m | Scour Problem: | K - Known Problem |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem |
| Comments: | small areas of scour starting, abutments generally out of the water. appears to have had scour repairs before. | | |

REPLACEMENT/REHABILITATION

| | | | |
|----------------------------|---|--------------------------|-----------|
| Next Rehab. Date: | 2029 | Replacement Year: | 2051 |
| Antic. Rehab. Cost: | \$50000 | Replacement Cost: | \$5000000 |
| Recommendations: | small rehab in next 5-10 years or when in area for other bridges. should include tremie concrete, girder repair, deck drain, maybe asphalt drains/curbs at wingwalls. | | |

OBSERVATIONS

| | | | |
|---------------------------------|---|-------------------------------------|----|
| Overall Condition: | F2 - Fair | Requires Further Inspection: | No |
| Additional Observations: | low traffic area, good traffic visibility, narrow shoulders, municipal pipe attached to bridge slopes quite steep and with loose material, can get under east side, west side harder - consider using ropes or installing gabions for bridge inspection access at next major rehab. hazards: traffic, slipping, unstable ground, low clearance under bridge | | |

LEGEND:

| | | | | |
|------------------------------------|------------|--------------------------------|-----------------------------|------------------------------|
| Condition Definitions: | | | Problem Definitions: | Category Definitions: |
| 1 - *Good - [discontinued code]. | F2 - Fair. | C - Unsafe (Closed to Public). | N - No Problem. | Maint. - Maintenance. |
| 2 - *Fair - [discontinued code]. | F1 - Fair. | U - Uninspectable. | P - Possible Problem. | Eng. - Engineering. |
| 3 - *Poor - [discontinued code]. | P3 - Poor. | I - Inapplicable. | K - Known Problem. | Office - Bridge Office. |
| 4 - *Unsafe - [discontinued code]. | P1 - Poor. | | NA - Not Applicable. | |
| G - Good. | P - Poor. | | | |

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS