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|  | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | BRIDGE INSPECTION REPORT B10192017-12 | |
| Date: 10/13/2017 | Inspected By: AB | Category: Eng. - Engineering | |
| BRIDGE INFORMATION | | | |
| Site: | 2-076 - PORT UNION BRIDGE (W.F. COAKER) | | |
| Route: | 230 | Overall Length: | 35 m |
| Year Built: | 1986 | Est: No | Overall Width: 12.5 m |
| Year Last Rehab.: | | Est: No | Roadway Width: 10.5 m |
| Region: | CENTRAL EAST | | Sidewalk Width: 1.4 m |
| Jurisdiction: | Provincial | | Clearance to R.D. or N.W.L.: 2 m |
| Type of Structure: | 01 - AASH to Girder | | Max Depth of N.W.L.: 2.5 m |
| Purpose of Structure: | 03 - Over Navigable Waters | | Spans: |
| Type of Handrail: | 01 - Aluminum Rail | | <u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u> |
| Roadway Surface: | 02 - Asphalt | 1 | 24 4 0 |
| Alignment Vertical: | 01 - Good | 2 | 0 5 0 |
| Alignment Horizontal: | 01 - Good | 3 | 0 6 0 |
| Restrictions: | No | | |
| BRIDGE PHOTOS | | | |
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| SUBSTRUCTURE | | | |
| Condition: | F2 - Fair | Bearings: | F2 - Fair |
| | | Bearing Seat: | F2 - Fair |
| Comments: | Concrete abutments and wing walls. Light to medium cracking with efflorescence at all four wing walls. Staining on wing walls right due to leaking through curbs. Some cracking of abutment walls. Elastomeric bearing pads bulging. Water on Girder seats. | | |
| SUPERSTRUCTURE | | | |
| Condition: | F2 - Fair | Expansion Joints: | F2 - Fair |
| Comments: | AASHTO girders. Some light cracking. Both joints leaking right side due to superelevation and ponding of water. Some spalling of expansion joint dams. | | |
| DECK | | | |
| Condition: | F2 - Fair | Curbs: | F2 - Fair |

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|-----------------------|---|---------------------------|-----------|
| Hand Rail: | F2 - Fair | Roadway Condition: | F2 - Fair |
| Approach Rail: | F2 - Fair | | |
| Comments: | Medium cracking in front face of curb and sidewalk. Light cracking and scaling remainder of curb and sidewalk. End blocks light to medium cracking except right end block at abutment 1 split from possible impact to guiderail . Aluminum bridge rail. Asphalt on deck is potholing. Abutment #2 hazard marker missing. Water ponding on deck around expansion joints. there is washout adjacent to abutment #1 right. Settlement at approach 1. | | |

HYDROLOGY

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|------------------------|---------------|------------------------|----------------|
| Water Velocity: | 1.0 m/s | Ice Problem: | N - No Problem |
| Water Depth: | 1.0 m | Scour Problem: | N - No Problem |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem |
| Comments: | Tidal Zone. | | |

REPLACEMENT/REHABILITATION

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|----------------------------|--|--------------------------|------|
| Next Rehab. Date: | 2017 | Replacement Year: | 2017 |
| Antic. Rehab. Cost: | \$0 | Replacement Cost: | \$0 |
| Recommendations: | Replace hazard marker. Address water ponding. Address leaking expansion joints. Repair potholes Asphalt. Repair washout adjacent to abutment #1 right. | | |

OBSERVATIONS

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|---------------------------------|-----------|-------------------------------------|----|
| Overall Condition: | F2 - Fair | Requires Further Inspection: | No |
| Additional Observations: | | | |

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