

Bridge Inspection Report

Northwood 095/113

Date of Inspection: 12/14/2015

Date Report Sent: 2/4/2016

Picture taken during inspection

Owner: Municipality

BOW LAKE ROAD
Over
SHERBURNE BROOK

Recommended Postings:

Weight: E2

Weight Sign OK

Width: Not Required

Width Sign OK

Primary Height Sign Recommendation: *None*

Optional Centerline Height Sign Rec: *None*

Clearances: Over:
(Feet) Under: 0.00
Route:

Height Signs OK

Condition: Municipal Redlist

Deck: 4 Poor

Superstructure: 4 Poor

Substructure: 4 Poor

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 1

Number of Approach Spans: 0

Main Span Material and Design Type

Concrete Slab

Sufficiency Rating: 26.8%

NBI Status: Not Applicable

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

NH Bridge Type: Concrete Slab

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: None

Deck Protection: None

Pavement thickness: 4.0 in

Curb Reveal: 3.0 in

Plan Location: 2-1-1-3

Total Bridge Length: 14.0 ft

Right Curb/Sidewalk Width: 0.8 ft

Total Bridge Width: 25.0 ft

Median: No median

Bridge Skew: 30.00 °

Bridge Dimensions:

Length Maximum Span: 10.0 ft

Left Curb/Sidewalk Width: 0.8 ft

Width Curb to Curb: 19.8 ft

Approach Roadway Width (W/ Shoulders): 18.0 ft

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Waterway

Lanes on bridge: 2

Lanes Under: NA

AADT: 1400

Percent Trucks: 10 %

Year of AADT: 2012

Future AADT: 2072

Year of Future AADT: 2035

Year Built: 1938

Year Rebuilt: Not Rebuilt

Detour Length: 2.0 mi

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Federal or State Definition Bridge: NH Definition Bridge
 Roadway Functional Class: Rural Min. Collector
 New Hampshire Highway System and Class: Municipal Highway
 Eligibility for the National Register of Historic Places: Possibly eligible
 Traffic Direction: Two-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Intolerable, Replacement
 Underclearances: Not Applicable (NBI)
 Approach Alignment: Above Minimum Criteria
 Structural Evaluation: Minimum Tolerable
 Channel/Channel Protection: Minor Damage
 Waterway Adequacy: Equal Desirable Criteria
 Bridge Scour Critical Status: Stable for extreme flood
 Riprap Condition: Fair Condition
 Debris Present: Debris Present
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
39	Concrete Slab - Unprotected, with Asphalt Pavement	Moderate	ASPHALT IS CRACKED . CURBS ARE CRACKED AND SPALLED WITH REBAR EXPOSED AT EAST. 6 INCHES OF DEBRIS BUILD UP ON CURBS.
215	Reinforced Concrete Abutment	Moderate	ABUTMENTS AND WINGS ARE CRACKED AND HAVE HEAVY SPALLING WITH REBAR EXPOSED. LARGE DELAMINATIONS.
334	Coated Metal Bridge Railing	Moderate	STEEL RAIL POST BROKEN. W- BEAM HOLED DAMAGED. BROKEN WELDS AT EAST.
359	Soffit of Conc Deck or Slab Condition Warning Flag	Moderate	DECK UNDERSIDE HAS HEAVY SPALLING WITH REBAR EXPOSED. LEAKING WITH EFFLORESCENCE.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
39	Concrete Slab - Unprotected, with Asph	Moderate	355	(SF)	0 %	100 %	0 %	0 %	0 %
215	Reinforced Concrete Abutment	Moderate	89	(LF)	0 %	0 %	100 %	0 %	
334	Coated Metal Bridge Railing	Moderate	30	(LF)	0 %	0 %	0 %	0 %	100 %
359	Soffit of Conc Deck or Slab Condition W	Moderate	1	(EA)	0 %	0 %	0 %	100 %	0 %

Bridge Notes:

ASPHALT RESURFACED 2013.

Approach and Roadway Notes:

ASPHALT - (7) CRACKS.
 W- BEAM RAIL - HEAVILY RUSTED AND DAMAGED.
 EMBANKMENT WASHED SLIGHTLY.