

# Bridge Inspection Report

NBI Structure Number: 003601880015800

Canaan 188/158

Date of Inspection: 05/02/2024

NH118

Date Report Sent: 06/14/2024

over

Owner: NHDOT

INDIAN RIVER

Bridge Inspection Group: B-Team

Bridge Maintenance Crew: 04

### Recommended Postings:

Weight: **No Posting Required**

Weight Sign OK

Width: **Not Required**

Width Sign OK

Primary Height Sign Recommendation: *None*

**Clearances:** Over: 99.99

Height Sign OK

Optional Centerline Height Sign Rec: *None*

(Feet) Under: 0.00

Route: 99.99

### Condition:

Red List Status: Not on the Redlist

Deck: N N/A (NBI)

Superstructure: N N/A (NBI)

Substructure: N N/A (NBI)

Culvert: 7 Good

Sufficiency Rating: 99.2 %

### Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

#### Main Span Material and Design Type

Concrete/Culvert

Bridge Rail: Meets Standards

Rail Transition: Meets Standards

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

NH Bridge Type: CRF (Concrete Rigid Frame)

Deck Type: N/A (NBI)

Wearing Surface: N/A (no deck (NBI))

Membrane: N/A (no deck (NBI))

Deck Protection: N/A (no deck (NBI))

Curb Reveal: Not Measured

Plan Location: 2-11-3-1

Total Bridge Length: 16.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 45.4 ft

Median: No median

Bridge Skew: 22.00 °

Year Built/Rebuilt: 1950

### Bridge Dimensions:

Length Maximum Span: 16.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 41.8 ft

Approach Roadway Width: 23.0 ft

(W/Shoulders)

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### Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: 0

AADT: 1,408

Percent Trucks: 4%

Year of AADT: 2022

Future AADT: 2,083

Year of Future AADT: 2042

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural, Major Collector

New Hampshire Bridge Tier: 3

Eligibility for the National Register of Historic Places: Possibly eligible for

Traffic Direction: 2-way traffic

### National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 7 Above Min Criteria

Underclearances: N Not applicable (NBI)

Approach Alignment: 8 Equal Desirable Crit

Structural Evaluation: 7 Above Min Criteria

Channel/Channel Protection: 6 Bank Slumping

Waterway Adequacy: 9 Above Desirable

Bridge Scour Critical Status: 8 Stable Above Footing

Riprap Condition: Good Condition

Debris Present: Debris Present

Channel Notes: LIGHT TO MODERATE SCOUR AND BANK EROSION. LIGHT VEGETATION AND DRIFT.

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## Element Details

No.	Description	Material Notes and Condition Notes:
215	Reinforced Concrete Abutment	WINGS  FINE VERTICAL CRACKS IN WINGS. MINOR SPALLS AT SOUTH WINGS AT WING/CULVERT JOINT. GAP FILL MATERIAL PUSHING OUT OF EAST WING/CULVERT JOINTS.
↳ 1080	Delamination/Spall/Patched Area	MINOR SPALLS AT BOTH SOUTH WINGS AT WING/CULVERT JOINT. GAP FILL MATERIAL PUSHING OUT OF EAST WING/CULVERT JOINTS.
↳ 1130	Cracking (RC and Other)	FINE VERTICAL CRACKS IN WINGS.
241	Reinforced Concrete Culvert	14' X 11' RIGID FRAME. UNDER 18 INCHES OF FILL.  MINOR DELAMINATION AT EXTERIORS, SPALL AT WEST. MINOR RUST STAINS AT SOFFIT. LIGHT SPALL UNDER ALL WEEPERS.
↳ 1080	Delamination/Spall/Patched Area	MINOR DELAMINATION AT EXTERIORS, SPALL AT WEST. LIGHT SPALL UNDER ALL WEEPERS.
↳ 1120	Efflorescence/Rust Staining	MINOR RUST STAINS AT SOFFIT.
330	Metal Bridge Railing	** W-Beam ** WITH PAINTED POSTS  POSTS RUSTED. MINOR SCRAPES AND RUST ON W-BEAM RAIL.
↳ 1000	Corrosion	POSTS RUSTED. MINOR RUST AT SCRAPES ON W-BEAM RAIL.
↳ 7000	Damage	MINOR SCRAPES AT W-BEAM RAIL. SMALL TEAR IN WEST RAIL.

## Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
215	Reinforced Concrete Abutment	50	ft	80%	20%	0%	0%
↳ 1080	Delamination/Spall/Patched Area	5	ft	0%	100%	0%	0%
↳ 1130	Cracking (RC and Other)	5	ft	0%	100%	0%	0%
241	Reinforced Concrete Culvert	52	ft	77%	23%	0%	0%
↳ 1080	Delamination/Spall/Patched Area	10	ft	0%	100%	0%	0%
↳ 1120	Efflorescence/Rust Staining	2	ft	0%	100%	0%	0%
330	Metal Bridge Railing	52	ft	62%	39%	0%	0%
↳ 1000	Corrosion	10	ft	0%	100%	0%	0%
↳ 7000	Damage	10	ft	0%	100%	0%	0%

## Bridge Notes:

UNDER 18 INCHES OF FILL.

## Inspection Notes: 05/02/2024

MTC - inspection comments -

W-BEAM RAIL WITH PAINTED POSTS, POSTS RUSTED. MINOR SCRAPES AND RUST ON W-BEAM RAIL.  
CULVERT: MINOR DELAMINATION AT EXTERIORS, MINOR SPALL AT WEST. LIGHT SPALL AT WEEPERS.  
SUBSTRUCTURE: MINOR SPALLS AT SOUTH WING/CULVERT JOINTS.

PICTURES: B684

16. SOUTH ABUTMENT.

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**Previous Inspection Notes:** 05/02/2022

MHC - inspection comments -  
W-BEAM RAIL WITH PAINTED POSTS, POSTS RUSTED. MINOR SCRAPES AND RUST ON W-BEAM RAIL.  
CULVERT: MINOR DELAMINATION AT EXTERIORS, MINOR SPALL AT WEST. LIGHT SPALL AT WEEPERS.  
SUBSTRUCTURE: MINOR SPALLS AT SOUTH WING/CULVERT JOINTS.

PICTURES: B655

1. SOUTH APPROACH
2. WEST ELEVATION

**Approach and Roadway Notes:**

PAVEMENT CRACKED; MOST SEALED OVER BRIDGE. EMBANKMENTS WASHED.  
SCRAPES AND MINOR DAMAGE AT W-BEAM APPROACH RAIL. ET-PLUS TERMINALS. BEAM HEIGHT UP TO 37 INCHES.

**Inspection History**

Inspection Date	Inspector Initials	Inspection Type(s) Performed				Major Element Ratings				Red list	Posting
		NBI	Elem	FCM	U/W	Deck	Super	Sub	Culvert		
05/02/2024	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/02/2022	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/14/2020	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/14/2018	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/09/2016	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/13/2014	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	7	<input type="checkbox"/>	No Posting Req'd
05/24/2012	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
05/27/2011	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
04/17/2009	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
08/24/2007	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/26/2005	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/18/2003	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/26/2001	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
06/24/1999	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/01/1997		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
06/01/1995		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
07/01/1993		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd
06/01/1991		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	8	<input type="checkbox"/>	No Posting Req'd

Inspection Frequency (mo.)			
NBI	Elem	FCM	U/W
24	24	N/A	N/A