

# Bridge Inspection Report

NBI Structure Number: 001701630011100

Bartlett 163/111

Date of Inspection: 05/25/2023

US302

Date Report Sent: 09/13/2023

over

Owner: NHDOT

**PED UNDERPASS**

Bridge Inspection Group: A-Team

Bridge Maintenance Crew: 08

### 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: 6 Satisfactory

Sufficiency Rating: 85 %

Bridge Rail: N/A or not required

Rail Transition: N/A or not required

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

### Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

#### **Main Span Material and Design Type**

Concrete/Culvert

NH Bridge Type: CB (Concrete Box)

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: TT-1-1-18/in inspection file

Total Bridge Length: 12.0 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 0.0 ft

Median: No median

Bridge Skew: 0.00°

Year Built/Rebuilt: 1986

### Bridge Dimensions:

Length Maximum Span: 12.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 0.0 ft

Approach Roadway Width: 43.8 ft

(W/Shoulders)

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## Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Pedestrian-bicycle

Lanes on Bridge: 3

Lanes Under: 0

AADT: 5,300

Percent Trucks: 7%

Year of AADT: 2022

Future AADT: 7,844

Year of Future AADT: 2042

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: NHS Roadway on Bridge

Roadway Functional Class: Rural, Principal Arterial - Other

New Hampshire Bridge Tier: 2

Eligibility for the National Register of Historic Places: Not eligible for NRHP

Traffic Direction: 2-way traffic

## National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: N Not applicable (NBI)

Underclearances: N Not applicable (NBI)

Approach Alignment: 8 Equal Desirable Crit

Structural Evaluation: 6 Equal Min Criteria

Channel/Channel Protection: N N/A (NBI)

Waterway Adequacy: N Not applicable

Bridge Scour Critical Status: N Not Over Waterway

Riprap Condition: Not Applicable

Debris Present: unknown

Channel Notes:

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## Element Details

No.	Description	Material Notes and Condition Notes:
215	Reinforced Concrete Abutment	WINGS AND HEADWALLS  FINE AND A FEW LIGHT CRACKS IN HEADWALLS AND WINGS. FEW MINOR SPALLS. LIGHT SPALL AT NW HEADWALL. PROTECTIVE COATING ON WING WALLS DELAMINATING AND MISSING IN FEW AREAS.
└ 1080	Delamination/Spall/Patched Area	MINOR SPALLS IN HEADWALLS AND WINGS; LIGHT SPALL AT NW HEADWALL.
└ 1130	Cracking (RC and Other)	FINE AND FEW LIGHT CRACKS IN HEADWALLS AND WINGS.
241	Reinforced Concrete Culvert	PRECAST BOX SECTIONS 12' X 10' INSIDE WITH ASPHALT PAVED FLOOR.  FINE CRACKS IN WALLS AND TOP. NEW ASPHALT PAVED FLOOR SINCE 2017 INSPECTION; FEW CRACKS & HEAVED IN AREAS. EVIDENCE OF WATER PIPING THROUGH WEST SIDE AT BASE.
└ 1130	Cracking (RC and Other)	FINE CRACKS IN WALLS AND TOP.

## Element States

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
215	Reinforced Concrete Abutment	256	ft	77%	23%	0%	0%
└ 1080	Delamination/Spall/Patched Area	5	ft	0%	100%	0%	0%
└ 1130	Cracking (RC and Other)	55	ft	0%	100%	0%	0%
241	Reinforced Concrete Culvert	112	ft	56%	44%	0%	0%
└ 1130	Cracking (RC and Other)	49	ft	0%	100%	0%	0%

## Bridge Notes:

UNDER 1.5 FEET FILL  
5/17/2019 - NEW ASPHALT LINED FLOOR BY BOBM.

## Inspection Notes: 05/25/2023

TDC & SRB inspection comments -  
W-BEAM HIGHWAY RAIL.  
CULVERT: FINE CRACKS. NEW ASPHALT PAVED FLOOR SINCE 2017 INSPECTION; FEW CRACKS IN ASPHALT, HEAVED IN AREAS. EVIDENCE OF WATER PIPING THROUGH BASE OF WEST SIDE OF CULVERT. FINE AND FEW LIGHT CRACKS AND MINOR SPALLS IN HEADWALLS AND WINGS; LIGHT SPALL AT NW HEADWALL. MINOR SETTLEMENT OF SECTIONS WITH SOME FOAM JOINT FILLER FALLING OUT.

PICTURE: A551-32.

## Previous Inspection Notes: 05/21/2021

TDC & SRB inspection comments -  
W-BEAM HIGHWAY RAIL.  
CULVERT: FINE CRACKS. NEW ASPHALT PAVED FLOOR SINCE 2017 INSPECTION; DELAMINATED AT NORTH END. PAST EVIDENCE OF WATER PIPING THROUGH BASE OF WEST SIDE OF CULVERT AT NORTH; DRY AT THIS TIME. FINE AND FEW LIGHT CRACKS AND MINOR SPALLS IN HEADWALLS AND WINGS; LIGHT SPALL AT NW HEADWALL. MINOR SETTLEMENT OF SECTIONS WITH SOME FOAM JOINT FILLER FALLING OUT.

PICTURE: A520-54.

## Approach and Roadway Notes:

PAVEMENT: OVERLAY 2020. FEW CRACKS. (7)  
W-BEAM RAIL: METAL POSTS, COMPOSITE OFFSET BLOCKS, EAGRTS. BROKEN END POST & DAMAGED END TERMINAL AT SW END. MODERATE RAIL DAMAGE NORTHSIDE.

## Unusual or experimental features:

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Inspection Date	Inspector Initials	Inspection Type(s) Performed				Major Element Ratings				Red list	Posting
		NBI	Elem	FCM	U/W	Deck	Super	Sub	Culvert		
05/25/2023	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
05/21/2021	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
05/17/2019	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
05/30/2017	MAH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
06/08/2015	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
06/25/2013	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
07/15/2011	TDC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
07/06/2009	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
08/13/2007	WBL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
06/22/2005	BEP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<input type="checkbox"/>	No Posting Req'd
06/13/2003	WBL	<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
08/14/2001	WBL	<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
04/16/1999	BEP	<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
08/01/1997		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	6	<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	7	<input type="checkbox"/>	No Posting Req'd
08/01/1993		<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
05/01/1991		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	N	<input type="checkbox"/>	No Posting Req'd

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