

Bridge Inspection Report

NBI Structure Number: 023200980011700

Sandown 098/117

Date of Inspection: 10/21/2021

Date Report Sent: 12/03/2021

Owner: Municipality

Bridge Inspection Group: D-Team

Bridge Maintenance Crew: OTHER

FREMONT ROAD

over

EXETER RIVER

Recommended Postings:Weight: **No Posting Required**☒ Weight Sign OKWidth: **Not Required**☒ Width Sign OKPrimary Height Sign Recommendation: *None*Optional Centerline Height Sign Rec: *None*Clearances: Over: 99.99
(Feet) Under: 0.00
Route: 99.99☒ Height Sign OK**Condition:**

Red List Status: Not on the Redlist

Deck: 8 Very Good

Superstructure: 8 Very Good

Substructure: 6 Satisfactory

Culvert: N N/A (NBI)

Sufficiency Rating: 86 %

Structure Type and Materials:

Number of Main Spans: 1

Number of Approach Spans: 0

Main Span Material and Design Type

Concrete/Slab

Bridge Rail: Meets Standards
Rail Transition: Meets Standards
Bridge Approach Rail: Meets Standards
Approach Rail Ends: Meets StandardsNH Bridge Type: CS (Concrete Slab)
Deck Type: Concrete Precast Panel
Wearing Surface: Bituminous
Membrane: Preformed Fabric
Deck Protection: Epoxy Coated Reinforcing
Curb Reveal: 6 in
Plan Location: M1-11-2-2
Total Bridge Length: 16.5 ft
Right Curb/Sidewalk Width: 0.0 ft
Total Bridge Width: 27.0 ft
Median: No median
Bridge Skew: 0.00°
Year Built/Rebuilt: 1980/2006**Bridge Dimensions:**Length Maximum Span: 13.9 ft
Left Curb/Sidewalk Width: 0.0 ft
Width Curb to Curb: 22.7 ft
Approach Roadway Width: 24.0 ft
(W/Shoulders)

Bridge Inspection Report

NBI Structure Number: 023200980011700

Sandown 098/117

Bridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: 0

AADT: 295

Percent Trucks: 4 %

Year of AADT: 2020

Future AADT: 436

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, Local

New Hampshire Bridge Tier: 5

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

Traffic Direction: 2-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: 4 Tolerable

Underclearances: N Not applicable (NBI)

Approach Alignment: 6 Equal Min Criteria

Structural Evaluation: 6 Equal Min Criteria

Channel/Channel Protection: 8 Protected

Waterway Adequacy: 8 Equal Desirable

Bridge Scour Critical Status: 4 Stable, needs action

Riprap Condition: Good Condition

Debris Present: No Debris Present

Channel Notes: SCOUR- REPAIRED WITH GRAVEL AND STONE

Bridge Inspection Report

NBI Structure Number: 023200980011700

Sandown 098/117

Element Details

| No. | Description | Material Notes and Condition Notes: |
|-------|------------------------------|---|
| 38 | Reinforced Concrete Slab | 3 PRECAST CONCRETE SLABS. 9' W x 16.5' L x 12 in.D. TORCH APPLIED MEMBRANE W/ 3 in. PAVEMENT. |
| L 510 | Wearing Surfaces | CURBS- LIGHT TO MODERATE SCALE, FEW SCRAPES DUE TO PLOW. UNDERSIDE OF DECK- NO SYMPTOMS OF DISTRESS ASPHALT- MODERATE CRACKS AT DECK ENDS. |
| 215 | Reinforced Concrete Abutment | SEVERAL REPAIRED AREAS, FEW FINE CRACKS AND MINOR ABRASION AT WATERLINE. |
| 330 | Metal Bridge Railing | **T-101** RAIL- FEW SCRAPES. |

Element States

| No. | Description | Quantity | Units | State 1 | State 2 | State 3 | State 4 |
|-------|------------------------------|----------|-------|---------|---------|---------|---------|
| 38 | Reinforced Concrete Slab | 445 | sq.ft | 100% | 0% | 0% | 0% |
| L 510 | Wearing Surfaces | --- | --- | 100% | 0% | 0% | 0% |
| 215 | Reinforced Concrete Abutment | 121 | ft | 100% | 0% | 0% | 0% |
| 330 | Metal Bridge Railing | 43 | ft | 100% | 0% | 0% | 0% |

Bridge Notes:

7/13/11- ADDED TO MRL DUE TO SCOUR.

12/21/16- NEW ASPHALT.

12/7/17- REMOVED FROM MRL. GRAVEL AND RIP RAP PLACED IN CHANNEL BETWEEN TOE WALLS, RIP RAP AND LOAM PLACED AT WINGS.

Inspection Notes: 10/21/2021

NJL - inspection comments -

DECK / SUPERSTRUCTURE: ASPHALT - NO DAMAGE, MODERATE CRACKS AT DECK ENDS. CURBS- LIGHT TO MODERATE SCALE, FEW SCRAPES DUE TO PLOW. UNDERSIDE OF DECK- NO SYMPTOMS OF DISTRESS. RAIL- FEW SCRAPES.

SUBSTRUCTURE: SEVERAL REPAIRED AREAS, FEW FINE CRACKS AND MINOR ABRASION AT WATERLINE.

PICTURE: D263-

06. MODERATE CRACKS ON SOUTH DECK END, TYPICAL OF NORTH.

Previous Inspection Notes: 10/08/2019

BTB - inspection comments -

DECK / SUPERSTRUCTURE: ASPHALT - NO DAMAGE, CRACKED AT DECK END. CURBS - FINE CRACKS, MINOR SPALL AND FEW SCRAPES DUE TO PLOW. UNDERSIDE OF DECK- NO SYMPTOMS OF DISTRESS. RAIL- FEW SCRAPES.

SUBSTRUCTURE: SEVERAL REPAIRED AREAS, FEW FINE CRACKS AND MINOR ABRASION AT WATERLINE.

Approach and Roadway Notes:

APPROACH ASPHALT - NO DAMAGE, MODERATE CRACKS AT DECK ENDS. APPROACH W- BEAM RAIL - FEW SCRAPES, DAMAGE ON NORTHWEST.

Unusual or experimental features:

Issues finishing the abutment stabilization work.

Bridge Inspection Report

NBI Structure Number: 023200980011700

Sandown 098/117

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 | | |
| 10/21/2021 | NJL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 10/08/2019 | NJL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/12/2019 | NJL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 12/07/2017 | NJL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 6 | N | <input type="checkbox"/> | No Posting Req'd |
| 07/18/2017 | NJL | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 12/21/2016 | MAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 07/30/2015 | KJT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 12/16/2014 | KJT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 07/17/2013 | MAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 12/13/2012 | MAS | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 07/13/2011 | KJT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 07/21/2009 | KJT | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8 | 8 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 06/27/2007 | DPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 | 9 | 5 | N | <input type="checkbox"/> | No Posting Req'd |
| 01/25/2007 | DPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 | 9 | 8 | N | <input type="checkbox"/> | No Posting Req'd |
| 08/23/2006 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 9 | 9 | 4 | N | <input checked="" type="checkbox"/> | No Posting Req'd |
| 08/22/2005 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 0 | 0 | N | <input checked="" type="checkbox"/> | Bridge Closed |
| 10/04/2004 | DPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 2 | 4 | N | <input checked="" type="checkbox"/> | Bridge Closed |
| 11/24/2003 | DPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 2 | 4 | N | <input checked="" type="checkbox"/> | Bridge Closed |
| 08/28/2003 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 2 | 4 | N | <input checked="" type="checkbox"/> | Bridge Closed |
| 11/27/2002 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 3 | 4 | N | <input checked="" type="checkbox"/> | 3 Tons PCO |
| 02/07/2002 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 3 | 5 | N | <input checked="" type="checkbox"/> | 3 Tons PCO |
| 08/29/2001 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3 | 3 | 5 | N | <input checked="" type="checkbox"/> | 3 Tons PCO |
| 12/11/2000 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 5 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 11/20/2000 | RLM | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 6 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 03/01/1999 | DPC | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 6 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 03/01/1998 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 6 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 01/01/1997 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 6 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 03/01/1996 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 5 | 4 | 6 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 02/01/1994 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6 | 4 | 5 | N | <input checked="" type="checkbox"/> | 6 Tons |
| 08/01/1991 | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4 | 4 | 5 | N | <input checked="" type="checkbox"/> | 6 Tons |

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