

THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION



Victoria F. Sheehan Commissioner

February 12, 2018

William Cass, P.E. Assistant Commissioner



FEB 1 4 2018

SELECTMEN'S OFFICE TOWN OF SANDOWN NH

Lynne Blaisdell Sandown Town Administrator PO Box 1756 Sandown, NH 03873

RE:

INTERIM INSPECTION OF MUNICIPALLY OWNED BRIDGE

TOWN OF SANDOWN

Dear Ms. Blaisdell:

Enclosed is a copy of an interim bridge inspection report for one municipally owned bridge in the Town of Sandown, which has been made to update our annual submission to the Federal Government. Please note that Red List bridges are in bold type.

Bridge

Location

Recommended Posting

In order to be legal and enforceable, weight signs (black letters on a white background) need to be located at each end of the bridge. Advisory width signs (black letters on yellow background) should also be located at each end of the bridge. At the Town's discretion, you may post a structure at a lower weight limit than the Department's recommended posting.

098/117

Fremont Road over

No Posting Required

Exeter River

Please note if there are any changes in the recommended weight posting or lack of postings for your bridge. Even though a bridge may be recommended for a weight posting or closure by the State, the decision to properly post or close the structure is the responsibility of the municipal officials. It is the best interest of the municipality to post or sign your bridges in accordance with these recommendations. A failure to warn motorists of potential bridge hazards could result in tort liability claims. Also, if your bridges are not posted properly, it will result in forfeiture of any possible federal highway funds for projects in your municipality.

Our bridge inspectors have indicated that the bridge listed above is in compliance with DOT's recommendations; therefore no action needs to be taken by the Town. Please call if there are any questions.

Sincerely,

William E. Watson Jr., P.E., Administrator

William C. Watson,

Bureau of Planning and Community Assistance

Tel: (603) 271-3344

WEW/sa Enclosures

CC.

Sandown Public Works Director

Commissioner, Department of Education

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SANDOWN MUNICIPAL BRIDGES

			ROAD INV.NO.	D. ROAD NAME OVER			LENGTH (O-T-O)		RECOMMENDED POSTING	
093/109	9	MP-A	1	63	PHILLIPS ROAD	EXETER RIVER		16'-0"		E2
098/11	7	CS	1	53	FREMONT ROAD	EXETER RIVER		16'-6"		NO POSTING REQ'D
110/120	0	MP	1	61	ODELL ROAD	EXETER RIVER		16'-0"	·	NO POSTING REQ'D

REMARKS: 093/109 SENT AS A CRITICAL DEFICIENCY ON 7/30/2015, REHAB 2016

REVIEWED/REVISED: 1/17

pshire Department of Transportation age Inspection Report

Structure Number: 023200980011700

Jate of Inspection: 12/07/2017

Date Report Sent: 01/29/2018

Bridge Inspection Group: D-Team Bridge Maintenance Crew: OTHER

Owner: Municipality

Existing Bridge Section Bureau of Bridge Design

Sandown 098/117

FREMONT ROAD

EXETER RIVER

RECEIVED

FEB 1 4 2018

SELECTMEN'S OFFICE TOWN OF SANDOWN NH

Recommended Postings:

Weight: No Posting Required

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

99.99

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: 91 %

Structure Type and Materials:

Number of Main Spans:

Number of Approach Spans:

Main Span Material and Design Type

Concrete Slab

Bridge Rail: Meets Standards

13.9ft

0.0 ft

22.7 ft

24.0 ft

Rail Transition: Meets Standards

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

NH 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

0.0 ft

Right Curb/Sidewalk Width:

Total Bridge Width:

27.0 ft

Median: No median

Bridge Skew: 0.00°

(W/Shoulders)

Width Curb to Curb:

Length Maximum Span:

Left Curb/Sidewalk Width:

Approach Roadway Width:

Year Built/Rebuilt: 1980/2006

NHDOT 008 Inspection

Bridge Dimensions:

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Structure Number: 023200980011700

Existing Bridge Section Bureau of Bridge Design

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ridge Service:

Type of Service on Bridge: Highway

Type of Service Under: Waterway

Lanes on Bridge: 2

Lanes Under: Not Applicable

AADT: 2

230

Percent Trucks: 4

Year of AADT: 2013

Future AADT: 340

Year of Future AADT: 2038

Federal or State Definition Bridge: NH-Definition Bridge

National Highway System: Bridge does not carry NHS

Roadway Functional Class: Rural Local

New Hampshire Highway System and Class: Municipal Highway

Eligibility for the National Register of Historic Places: Not Eligible

Traffic Direction: Two-way traffic

pshire Department of Transportation

ge Inspection Report

tructure Number: 023200980011700

Existing Bridge Section Bureau of Bridge Design

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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.
		CURBS - FINE CRACKS, MINOR SPALL AND FEW SCRAPES DUE TO PLOW. UNDERSIDE OF DECK- NO SYMPTOMS OF DISTRESS.
510	Wearing Surfaces	
		ASPHALT- NO DAMAGE.
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 (see disclaimer below)

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
38	Reinforced Concrete Slab	446	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%

Element Disclaimer. NHDOT is transitioning from CoRe elements to AASHTO elements. The AASHTO element data shown above is the product of the automated element migration routine from the AASHTOWare BrM software. This migrated data has undergone limited field verification. Adequate quality control of this element data is not expected to be achieved until the conclusion of the 2020 inspection season. Please utilize element data with caution.

Bridge Notes:

7/13/2011- ADDED TO MRL DUE TO SCOUR.

12/21/2016- NEW ASPHALT.

12/7/2017- REMOVED FROM MRL. GRAVEL AND RIP RAP PLACED IN CHANNEL BETWEEN TOE WALLS, RIP RAP AND LOAM PLACED AT WINGS.

Inspection Notes: 12/07/2017

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.

PICTURES: D210-92 thru 94.

Previous Inspection Notes: 07/18/2017

NJL inspection comments -

DECK / SUPERSTRUCTURE: ASPHALT- LIGHT CRACKS AT DECK ENDS. CURBS- FINE CRACKS, MINOR SCALE. UNDERSIDE OF DECK

SURFACE - NO SYMPTOMS OF DISTRESS. RAIL- FEW SCRAPES.

SUBSTRUCTURE: FINE CRACKS, MINOR SPALLS. TOEWALL AT EAST ABUTMENT. EROSION AT SOUTHEAST WING. SCOUR- WEST ABUTMENT UNDERMINED 20' IN LENGTH WITH 1' TO 2' OF PENETRATION AND UP TO 1' IN HEIGHT.

Approach and Roadway Notes:

APPROACH ASPHALT - NO DAMAGE, CRACKED AT DECK ENDS.

APPROACH W- BEAM RAIL - FEW SCRAPES, DAMAGE ON NORTHWEST.

Unusual or experimental features:

Issues finishing the abutment stabilization work.

NHDOT 008 Inspection

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Existing Bridge Section Bureau of Bridge Design

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Ige Inspection Report

nspection History

Inspection	Inspector	Inspection Type(s) Performed			Major Element Ratings				Red	Posting	
Date	Initials	NBI	Elem	FCM	U/W	Deck	Super	Sub	Culvert	list	Posting
12/07/2017	NJL	V	V			8	8	6	N		No Posting Req'd
07/18/2017	NJL	V	V			8	8	4	N	~	No Posting Req'd
12/21/2016	MAS	V	V			8	8	4	N	~	No Posting Req'd
07/30/2015	KJT	V	V			8	8	4	N	~	No Posting Req'd
12/16/2014	KJT	V	V			8	8	4	N	V	No Posting Req'd
07/17/2013	MAS	V	~			8	8	4	N	V	No Posting Req'd
12/13/2012	MAS	V	V			8	8	4	N	~	No Posting Req'd
07/13/2011	KJT	~	V			8	8	4	N	~	No Posting Req'd
07/21/2009	KJT	~	~			8	8	5	N		No Posting Req'd
06/27/2007	DPC	V	V			9	9	5	N		No Posting Req'd
01/25/2007	DPC	~	V			9	9	8	N		No Posting Req'd
08/23/2006	RĽM	V	V			9	9	4	N	V	No Posting Req'd
08/22/2005	RLM	~	V			0	0	0	N	V	Bridge Closed
10/04/2004	DPC	V	~			4	2	4	N	~	Bridge Closed
11/24/2003	DPC	~	V			4	2	4	N	~	Bridge Closed
08/28/2003	RLM	~	V			4	2	4	N	~	Bridge Closed
11/27/2002	RLM	V	V			4	3	4	N	V	3 Tons PCO
02/07/2002	RLM	~	V			4	3	5	N	~	3 Tons PCO
08/29/2001	RLM	V	~			3	- 3	5	N	~	3 Tons PCO
12/11/2000	RLM	~	✓			4	4	5	N	~	6 Tons
11/20/2000	RLM	~	V			4 🗈	4	6	N	~	6 Tons
03/01/1999	DPC	V	V			4	4	6	N	V	6 Tons
03/01/1998		~	V			4 🐃	4	6	N	~	6 Tons
01/01/1997		V	~			4	- 4	6	N.	~	6 Tons
03/01/1996		~	~			5	4	6	N	~	6 Tons
02/01/1994		~	V			6	4	5	N	✓.	6 Tons
08/01/1991		~	V			4	4	5	N	V	6 Tons

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

NHDOT 008 Inspection

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