

Bridge Inspection Report

NBI Structure Number: 023900910004800

Springfield 091/048

Date of Inspection: 11/08/2017

GEORGES MILLS ROAD

Date Report Sent: 01/03/2018

over

Owner: NHDOT

STAR LAKE OUTLET

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: State Redlist

Deck: N N/A (NBI)

Superstructure: N N/A (NBI)

Substructure: N N/A (NBI)

Culvert: 4 Poor

Sufficiency Rating: 70 %

NBI Status: Not Applicable

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

Structure Type and Materials:

Number of Main Spans: 2

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Culvert

NH Bridge Type: MP (Metal Pipe)

Deck Type: No Deck (N/A - NBI)

Wearing Surface: No Deck (N/A - NBI)

Membrane: No Deck (N/A - NBI)

Deck Protection: No Deck (N/A - NBI)

Curb Reveal: Not Measured

Plan Location: See Proj. S1335 (sht 4)

Total Bridge Length: 12.3 ft

Right Curb/Sidewalk Width: 0.0 ft

Total Bridge Width: 0.0 ft

Median: No median

Bridge Skew: 35.00 °

Year Built/Rebuilt: 1951

Detour Length: 0.0 mi

Bridge Dimensions:

Length Maximum Span: 5.0 ft

Left Curb/Sidewalk Width: 0.0 ft

Width Curb to Curb: 0.0 ft

Approach Roadway Width: 22.0 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: 300

Percent Trucks: 5%

Year of AADT: 2015

Future AADT: 444

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 Min. Collector

New Hampshire Bridge Tier: 4

Eligibility for the National Register of Historic Places: Possibly eligible

Traffic Direction: Two-way traffic

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Element Details (see disclaimer below)

No.	Description	Material Notes and Condition Notes:
217	Masonry Abutment	VOIDS IN STONE MASONRY HEADWALL, WITH STONES MISSING AT WEST. VOIDS IN EAST HEADWALL
L 1610	Mortar Breakdown (Masonry)	
		LOOSE MORTAR AND VOIDS IN HEADWALL AT EAST AND WEST
240	Steel Culvert	TWO 5'-0 in. PIPES - 2-3/4 in.x1/2 in.x3/16 in. RIVETED, UNDER 3'-0 in. OF FILL. TWO RIVETED SPIRAL PIPES- LIGHT TO MODERATE RUST AND SCALE WITH SCATTERED HOLES IN NORTH . SAGS IN ROOFLINES. ONE FOOT VOID BETWEEN PIPES WITH ONE FOOT UNDERMINING AT EACH INLET, WATER PIPING UNDER INVERT AT WEST. JOINTS RUSTED AND SEPARATION AT EAST OF BOTH PIPES, UP TO 2 in. GAP.
L 1000	Corrosion	LIGHT TO MODERATE RUST AND SCALE WITH SCATTERED HOLES IN NORTH MP. UP TO 40% SECTION LOSS AT FIRST 25' OF INVERT, LESS THAN 10% SECTION LOSS TO REMAINING INVERT.

Element States (see disclaimer below)

No.	Description	Quantity	Units	State 1	State 2	State 3	State 4
217	Masonry Abutment	35	ft	0%	80%	20%	0%
L 1610	Mortar Breakdown (Masonry)	1	ft	0%	0%	100%	0%
240	Steel Culvert	144	ft	0%	0%	85%	15%
L 1000	Corrosion	1	each	0%	0%	100%	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:

NEW BRIDGE TO INVENTORY 10/31/08.
Built under state proj S1335

Inspection Notes: 11/08/2017

MTC - inspection comments-
CULVERTS: MODERATE RUST AND SCALE WITH SCATTERED HOLES IN NORTH MP. SAGS IN ROOF LINE. JOINTS RUSTED AND SEPARATION AT EAST OF BOTH PIPES.
SUBSTRUCTURE: LOOSE MORTAR AND VOIDS IN HEADWALL AT EAST AND WEST. VOID AT WEST HEADER UP TO 1'.

PICTURES: B594.
31. HEAVY DEBRIS AT INLET.

Previous Inspection Notes: 03/03/2017

MTC - inspection comments- Reports from Pontis put in by hand to BrM. Please check AASHTO elements quantities.
CULVERTS: MODERATE RUST AND SCALE WITH SCATTERED HOLES IN NORTH MP. SAGS IN ROOF LINE. JOINTS RUSTED AND SEPARATION AT EAST OF BOTH PIPES.
SUBSTRUCTURE: LOOSE MORTAR AND VOIDS IN HEADWALL AT EAST AND WEST. VOID AT WEST HEADER UP TO 1'.

PICTURES: B577
8. TREE DEBRIS AT INLET

Approach and Roadway Notes:

ASPHALT- LIGHT CRACKS.
MODERATE DAMAGE TO W- BEAM RAIL AND ONE BROKEN POST AT WEST. SLIGHT BANK EROSION AT SOUTHWEST AND EAST HEADWALL.

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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		
11/08/2017	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/03/2017	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/09/2016	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/10/2016	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/02/2015	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
04/21/2015	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/13/2014	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
04/18/2014	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/13/2013	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/15/2013	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/27/2012	MHC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/06/2012	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/16/2011	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/29/2011	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/02/2010	MTC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/14/2010	DEP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/12/2010	JEL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
11/10/2009	NJL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
03/16/2009	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd
10/31/2008	FNM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	N	N	4	<input checked="" type="checkbox"/>	No Posting Req'd

Inspection Frequency (mo.)			
NBI	Elem	FCM	U/W
8	8	N/A	N/A