

Appendix A: Inspection Forms

Bridge Inspection Report

Portsmouth 247/084

Date of Inspection: 07/10/2009

US 1

Date Report Sent: 7/10/2009

Over

Picture taken during inspection

PISCATAQUA RIVER

Owner: NHDOT

Memorial Bridge

Bridge also in: Kittery , Maine

Recommended Postings:

Weight: 'Weight Limit 10 Tons'

Weight Sign OK

10-Ton posting implemented 07/10/2009.

Width: Not Required

Width Sign OK

Primary Height Sign Recommendation: None

Clearances: Over: 17.67

Height Signs OK

Optional Centerline Height Sign Rec: None

(Feet) Under: 0.00

Route: 17.67

Condition: State Redlist

Deck: 4 Poor

Superstructure: 3 Serious

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 3

Number of Approach Spans: 10

Main Span Material and Design Type

Steel Movable - Lift

Sufficiency Rating: 6%

NBI Status: Structurally Deficient

Approach Span Material and Design Type

Steel Multiple Beam

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

NH Bridge Type: Vertical Lift

Deck Type: Open Grating

Wearing Surface: Other

Membrane: None

Deck Protection: None

Pavement thickness: 2.0 in

Curb Reveal: 0.0 in

Plan Location: 1-18-1-1 & 1-18-3-1

Bridge Dimensions:

Length Maximum Span: 302.0 ft

Total Bridge Length: 1,201.0 ft

Left Curb/Sidewalk Width: 6.0 ft

Right Curb/Sidewalk Width: 6.0 ft

Width Curb to Curb: 28.0 ft

Total Bridge Width: 29.0 ft

Approach Roadway Width (W/ Shoulders): 28.0 ft

Median: No median

Bridge Skew: 0.00 °

Bridge Service:

Type of Service on Bridge: Highway and Pedestrian

Year Built: 1921

Type of Service under: Waterway

Year Rebuilt: 1982

Lanes on bridge: 2

Detour Length: 6.0 mi

Lanes Under: NA

AADT: 10000

Percent Trucks: 5%

Year of AADT: 2006

Future AADT: 14800

Year of Future AADT: 2029

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Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Minor Arterial
 New Hampshire Highway System and Class: Primary-DOT Maintained
 Eligibility for the National Register of Historic Places: Eligible (Historic)
 Traffic Direction: Two-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Minimum Tolerable
 Underclearances: Not Applicable (NBI)
 Approach Alignment: Above Minimum Criteria
 Structural Evaluation: Intolerable, Replacement
 Channel/Channel Protection: Bank Slumping
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Stable for extreme flood
 Riprap Condition: Good Condition
 Debris Present: No Debris Present

TIDAL Footings on Bed Rock

Date of Underwater Inspection: Sep. 2008

Fracture Susceptible Detail Notes: *FLOOR BEAMS HOLED, CHORDS HAVE MODERATE SECTION LOSS.*

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
13	Concrete Deck - Unprotected, with Asphalt Pavement	Severe	ASPHALT- CRACKED.
28	Steel Deck - Open Grid	Severe	REPAIRED AREAS. DAMAGED AREAS. FEW BROKEN WELDS. LOOSE. SMALL SECTIONS MISSING. DECK SUPPORT HOLED AT NORTH END.
113	Painted Steel Stringer	Severe	SEVERAL STRINGERS HOLED. HEAVY RUSTING. HEAVY SECTION LOSS. REPAIRED AREAS AT LIFT SPAN. BRACINGS HOLED. CHANNELS BOLTED TO STRINGERS AT LIFT SPAN.
121	Painted Steel Bottom Chord (Thru Truss)	Severe	AREAS OF HEAVY RUSTING AND SECTION LOSS. THIN AREAS. REPAIRED AREAS.
126	Painted Steel Thru Truss (Exclude Bottom Chord)	Severe	AREAS OF HEAVY RUSTING AND SECTION LOSS. HOLES IN PLATES.
152	Painted Steel Floor Beam	Severe	HEAVY RUSTING WITH SECTION LOSS. SEVERAL AREAS HOLED.

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No.	Description	Env.	Material Notes and Condition Notes
205	Reinforced Concrete Column or Pile Extension	Severe	FINE CRACKS AND MINOR SPALLS.
210	Reinforced Concrete Pier Wall	Severe	MINOR CRACKS AND LIGHT SPALLS. TIMBERS DECAYED. SOME NEW.
215	Reinforced Concrete Abutment	Severe	LIGHT CRACKS AND MEDIUM SPALLS. BACKWALL- SPALLED WITH REBAR EXPOSED AT NORTH AND SOUTH. WINGS- SPALLED.
234	Reinforced Concrete Cap	Severe	FINE CRACKS AND LIGHT SPALLS.
302	Compression Joint Seal	Severe	TIGHT. MINOR DAMAGE. LEAKING.
304	Open Expansion Joint	Severe	** Finger Joint ** < none >
311	Moveable Bearing (roller, sliding, etc.)	Severe	HEAVY RUSTING. SECTION LOSS.
334	Coated Metal Bridge Railing	Moderate	HEAVILY RUSTED WITH SECTION LOSS. REPAIRED AREAS. FEW AREAS HOLED.
357	Pack Rust Condition Warning Flag	Severe	HEAVY PACK RUST AT PLATES AND AT DECK SUPPORTS.
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	SEVERAL DELAMINATIONS. HEAVY LEAKING. SEVERAL SPALLS WITH REBAR EXPOSED AND RUSTING. LIGHT CRACKS.
363	Section Loss Condition Warning Flag	Severe	SEVERAL HOLED AREAS IN STEEL.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
13	Concrete Deck - Unprotected, with Asph	Severe	16,803	(SF)	0 %	100 %	0 %	0 %	0 %
28	Steel Deck - Open Grid	Severe	8,396	(SF)	0 %	0 %	100 %	0 %	0 %
113	Painted Steel Stringer	Severe	15,463	(LF)	0 %	0 %	20 %	59 %	21 %
121	Painted Steel Bottom Chord (Thru Truss	Severe	1,801	(LF)	0 %	0 %	65 %	35 %	0 %
126	Painted Steel Thru Truss (Exclude Botto	Severe	600	(LF)	0 %	35 %	55 %	10 %	0 %
152	Painted Steel Floor Beam	Severe	10,082	(LF)	0 %	12 %	36 %	40 %	12 %
205	Reinforced Concrete Column or Pile Ext	Severe	18	(EA)	0 %	100 %	0 %	0 %	
210	Reinforced Concrete Pier Wall	Severe	89	(LF)	0 %	100 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	59	(LF)	0 %	50 %	50 %	0 %	

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Inspection Date: 11/18/2008	Inspector: DPC	Deck: 4 Poor
Notes:		Super: 3 Serious
<p><i>DPC inspection comments -</i> DECK- ELEMENTS IN POOR CONDITION. CONCRETE- SPALLS AND REBAR EXPOSED. STEEL- RUSTED,DAMAGED AND LOOSE. UPHAUL CABLES LOOSE AT NORTH EAST AND SOUTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED 2" AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. CRACK IS 3-3/4" LONG AT OUTSIDE AND 4-1/2" LONG AT INSIDE. NEW DECK GATES ARE NOT WORKING. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE- ELEMENTS IN FAIR CONDITION. PIER FENDER DECK HAS REPAIRS INSTALLED. ABUTMENTS CRACKED AND SPALLED. PIERS SPALLED. PICTURE: C385 #9: STEEL DECK SUPPORT HOLED AT NORTH AT LIFT SPAN. #10: STEEL BRACING HOLED AT NORTH AT LIFT SPAN.</p>		Substr: 5 Fair
		Culvert: N N/A (NBI)
Inspection Date: 09/12/2008	Inspector: DMB	Deck: 4 Poor
Notes:		Super: 3 Serious
<p><i>DMB inspection comments- UNDERWATER INSPECTION OF BOTH PIERS AND BOTH ABUTMENTS.</i> CONCRETE AND MASONRY ELEMENTS ARE SOUND WITH ONLY ISOLATED AREAS OF MINOR DETERIORATION OBSERVED. CONCRETE EXHIBITS LIGHT SCALING AT THE NOSES OF EACH. TIMBER FENDERS MOUNTED ON STEEL FRAME; ALL APPEAR TO BE IN GOOD CONDITION.</p>		Substr: 6 Satisfactory
		Culvert: N N/A (NBI)
Inspection Date: 03/25/2008	Inspector: DPC	Deck: 4 Poor
Notes:		Super: 3 Serious
<p><i>RLM - inspection comments -</i> DECK- ELEMENTS IN POOR CONDITION. CONCRETE- SPALLS AND REBAR EXPOSED. STEEL- RUSTED,DAMAGED AND LOOSE. UPHAUL CABLES LOOSE AT NORTH EAST AND SOUTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED 2" AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. CRACK IS 3-3/4" LONG AT OUTSIDE AND 4-1/2" LONG AT INSIDE. NEW DECK GATES ARE NOT WORKING. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE- ELEMENTS IN FAIR CONDITION. PIER FENDER DECK HAS REPAIRS INSTALLED. ABUTMENTS CRACKED AND SPALLED. PIERS SPALLED.</p>		Substr: 5 Fair
		Culvert: N N/A (NBI)

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Inspection History:

<p>Inspection Date: 11/28/2007</p> <p>Notes: RLM - inspection comments - DECK- ELEMENTS IN POOR CONDITION. SPALLS. UPHAUL CABLES LOOSE AT NORTH EAST AND SOUTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED TWO INCHES AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. CRACK IS 3-3/4" LONG AT OUTSIDE AND 4-1/2" LONG AT INSIDE. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE- ELEMENTS IN FAIR CONDITION. PIER FENDER DECK HAS REPAIRS INSTALLED. ABUTMENTS CRACKED AND SPALLED. PICTURES: C362-1 THRU 5.</p>	<p>Inspector: RLM</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 05/07/2007</p> <p>Notes: DPC inspection comments - HNTB inspection, September and October 2003. See report for more details. DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHAUL CABLES LOOSE AT NORTH EAST AND SOUTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED SEVERAL INCHES AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PIER #1 FENDER DECK HAS SEVERAL HOLES THROUGH AT NORTH SIDE. ABUTMENTS CRACKED AND SPALLED. TIMBER WALKWAY AT PIERS ARE DECAYED AND HOLED. DAMAGED AREAS TO FENDERS. PIC(s): C344 - 29-34.</p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 11/15/2006</p> <p>Notes: DPC inspection comments - HNTB inspection, September and October 2003. See report for more details. DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED SEVERAL INCHES AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PIER #1 FENDER DECK HAS SEVERAL HOLES THROUGH AT NORTH SIDE. ABUTMENTS CRACKED AND SPALLED. TIMBER WALKWAY AT PIERS ARE DECAYED AND HOLED. PICTURE: C311-34.</p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>

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Inspection History:

<p>Inspection Date: 07/11/2006</p> <p>Notes: <i>DPC inspection comments - HNTB inspection, September and October 2003. See report for more details. DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PICTURES: C267-14 THRU 17.</i></p>	<p>Inspector: DEP</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 04/12/2006</p> <p>Notes: <i>DPC inspection comments - HNTB inspection, September and October 2003. See report for more details. DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED SEVERAL INCHES AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEEL. CABLE WHEEL CRACKED AT NORTH EAST. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. FLOOR BEAMS HOLED. SOME REPAIRS TO STRINGERS. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PIER #1 FENDER DECK HAS SEVERAL HOLES THROUGH AT NORTH SIDE. ABUTMENTS CRACKED AND SPALLED. TIMBER WALKWAY AT PIERS ARE DECAYED AND HOLED. PIC: C306-08 PIC: C311- 34.</i></p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 12/05/2005</p> <p>Notes: <i>DPC inspection comments - HNTB inspection, September and October 2003. See report for more details. DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS AND SOME NEW PLANKS. BRONZE PLATES AT SOUTH PORTAL DROPPED SEVERAL INCHES AND PUSHED OUT SEVERAL INCHES AT SOUTH AND MIDDLE. REPAIRS BY BOBM - 6 CABLES AROUND LOOSE STEE SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PIER #1 FENDER DECK HAS SEVERAL HOLES THROUGH AT NORTH SIDE. PIC: C306-08</i></p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 04/19/2005</p> <p>Notes: <i>RLM inspection comments - DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS. BRONZE PLATES AT SOUTH PORTAL DROPPED SEVERAL INCHES AND PUSHED OUT SEVERAL INCHES AT WEST AND MIDDLE SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PIER #1 FENDER DECK HAS SEVERAL HOLES THROUGH AT NORTH SIDE. Pictures: C284-01, 02, 03.</i></p>	<p>Inspector: RLM</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>

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Inspection History:

Inspection Date: 10/27/2004	Inspector: DPC	Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)
Notes: <i>DPC inspection comments - DECK - ELEMENTS IN POOR CONDITION. SPALLS. UPHHAUL CABLES LOOSE AT NORTH EAST. TIMBER SIDEWALK HAS DECAYED AREAS. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. STRINGERS HOLED. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. PICTURES: C267-14 THRU 17.</i>		
Inspection Date: 10/08/2003	Inspector: DEP	Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)
Notes: <i>HNTB inspection, September and October 2003. See report for more details</i>		
Inspection Date: 03/20/2003	Inspector: RLM	Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)
Notes: <i>RLM inspection comments - DECK- ELEMENTS IN POOR CONDITION. SPALLED WITH REBAR EXPOSED. TIMBER SIDEWALK HAS AREAS OF HEAVY DECAY. NEW AUTOMATED GATES NOT WORKING THIS DATE. HOLES THROUGH STAIR AT LIFT HOUSE; SOME REPAIRS INSTALLED. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. SEVERAL HOLED AREAS. CABLES NEED LUBRICATION. LIFT CABLES HAVE MINOR WORN AREAS. LIFT CABLE ATTACHMENT BLOCK LOOSE AT NORTHWEST. SECURITY DOOR AT LIFT HOUSE. SUBSTRUCTURE- ELEMENTS IN FAIR CONDITION. SPALLS AND DELAMINATIONS SOUTH 3-7/8" CRACK IN STEEL PULLEY WHEEL AT TOP NORTH EAST LIFT TOWER. SMALL HOLES IN PULLEY WHEEL AT NORTH WEST. LIFT PINS AT COUNTER WEIGHTS LOOSE WITH 1/4" GAPS. WORN AREAS. PIER #1 AT WEST, HAS A SIGN WITH CRACKED WELDS AT BASE. PICTURES: C159-06, 07, 08, 09.</i>		
Inspection Date: 11/20/2002	Inspector: DPC	Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)
Notes: <i>DPC inspection comments - DECK- ELEMENTS IN POOR CONDITION. SPALLED WITH REBAR EXPOSED. TIMBER SIDEWALK WITH AREAS OF HEAVY DECAY. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. SEVERAL HOLED AREAS. NEW UPHHAUL CABLES. LIFT CABLES HAVE MINOR WORN AREAS. NEW SECURITY DOOR AT LIFT HOUSE. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. 3-7/8" CRACK IN STEEL PULLEY WHEEL AT TOP NORTH EAST LIFT TOWER. SMALL HOLES IN PULLEY WHEEL AT NORTH WEST. LIFT PINS AT COUNTER WEIGHTS LOOSE WITH 1/4" GAPS. WORN AREAS. PICTURES: C151-01, 02, 03.</i>		

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Inspection History:

<p>Inspection Date: 11/15/2001</p> <p>Notes: DPC inspection comments - NEW AUTOMATED GATES WORKING THIS DATE. DECK- ELEMENTS IN POOR CONDITION. SPALLED WITH REBAR EXPOSED. TIMBER SIDEWALK WITH AREAS OF HEAVY DECAY. SUPERSTRUCTURE- ELEMENTS IN SERIOUS CONDITION. SEVERAL HOLED AREAS. NEW UPHAUL CABLES LOOSE AND DRY. LIFT CABLES HAVE MINOR WORN AREAS. NEW SECURITY DOOR AT LIFT HOUSE. SUBSTRUCTURE- ELEMENTS IN FAIR CONDITION. 3-7/8" CRACK IN STEEL CABLE WHEEL AT NORTH EAST LIFT TOWER. SMALL HOLES IN CABLE WHEEL AT NORTH WEST. LIFT PINS AT COUNTER WEIGHTS LOOSE WITH 1/4 INCH GAPS. WORN AREAS. PIC: C129-09 thru 15</p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>
<p>Inspection Date: 05/09/2001</p> <p>Notes: DPC inspection comments - NEW AUTOMATED GATES WORK BEING DONE THIS DATE DECK - ELEMENTS IN POOR CONDITION. SPALLED WITH REBAR EXPOSED. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. SEVERAL HOLED AREAS. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. 3-7/8 INCH CRACK IN STEEL CABLE WHEEL AT NORTH EAST LIFT TOWER. LIFT PINS AT COUNTER WEIGHTS LOOSE WITH 1/4 INCH GAPS. WORN AREAS. PIC. C111-05 to 09</p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 6 Satisfactory Culvert: N N/A (NBI)</p>
<p>Inspection Date: 09/21/2000</p> <p>Notes: DPC inspection comments - DECK - CONCRETE IN POOR CONDITION. STEEL IN SATISFACTORY CONDITION. TIMBER SIDEWALK IN FAIR CONDITION LOOSE AND DECAYED AREAS. STEEL ANGLES UNDER SIDEWALK HOLED AND SOME FALLEN. STEEL DRAINS IN VERY POOR CONDITION. LIGHTING - OK. SUPERSTRUCTURE - APPROACH ELEMENTS IN SERIOUS CONDITION. - LIFT ELEMENTS IN CRITICAL CONDITION. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION.</p>	<p>Inspector: DPC</p>	<p>Deck: 4 Poor Super: 3 Serious Substr: 6 Satisfactory Culvert: N N/A (NBI)</p>
<p>Inspection Date: 06/13/2000</p> <p>Notes: DPC inspection comments - NEW AUTOMATED GATES WORK BEING DONE THIS DATE. DECK - ELEMENTS IN FAIR CONDITION. SUPERSTRUCTURE - ELEMENTS IN SERIOUS CONDITION. SUBSTRUCTURE - ELEMENTS IN FAIR CONDITION. 3-7/8 INCH CRACK IN STEEL CABLE WHEEL AT NORTH EAST LIFT TOWER.</p>	<p>Inspector: DPC</p>	<p>Deck: 5 Fair Super: 3 Serious Substr: 5 Fair Culvert: N N/A (NBI)</p>

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Inspection History:

Inspection Date: 09/27/1999	Inspector: DPC	Deck: 5 Fair Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
<p>Notes: Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:32:31 DPC inspection comments - Deck: CONCRETE - light cracks and spalls with rebar exposed and rusting, heavy leaking, several delaminations, steel grid damaged. Repaired areas. Sidewalks- timber- cracks, split, minor and light decay, few planks loose and lifting. Expansion device - expansion plates, finger joints, compression seals - minor damage. Concrete curbs - light cracks and minor spalls. Steel curbs - rusted and minor section loss. Super: Bearings - Rockers- heavily rusted with section loss. Stringers- I beams - moderate and heavy section loss with holed areas at webs and flanges. Floor Beams - heavy section loss with holed areas at webs and flanges. Trusses- lower chords- moderate section loss, several connection plates holed, several verticals holed. Upper chords- light section loss. Lateral bracing- holed. Few connection plates holed at top verticals.</p>		
Inspection Date: 12/04/1998	Inspector: DPC	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
<p>Notes: Sufficiency Rating Calculation Accepted by DEP at 01-19-1999 12:00:00 DPC inspection comments 12/4/98: Deck: light cracks and spalls with rebar exposed and rusting, light leaking, several delaminations, few more delaminations, steel grid damaged. sidewalks- timber- cracks, split, minor and light decay, few planks loose and lifting. Expansion device- expansion plates, finger joints, compression seals- minor damage. Super: Bearings- Rockers- heavily rusted with section loss. Stringers- I beams- moderate and heavy section loss with holed areas. Floor Beams- heavy section loss with holed areas. Trusses- lower chords- moderate section loss, several connection plates holed, several verticals holed. Upper chords- light section loss. Lateral bracing- holed. Few connection plates holed at top verticals. Some plating done by BOBM; other areas same as previous report.</p>		
Inspection Date: 07/21/1998	Inspector: FNM	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
<p>Notes: FNM inspection comments - Deck: light cracks and spalls with rebar exposed and rusting, light leaking, several delaminations, few more delaminations; steel grid damaged. sidewalks- timber- cracks, split, minor and light decay, few planks loose and lifting. Expansion device- expansion plates, finger joints, compression seals- minor damage. Super: Bearings- Rockers- heavily rusted with section loss. Stringers- I beams- moderate and heavy section loss with holed areas. Floor Beams- heavy section loss with holed areas. Trusses- lower chords- moderate section loss, several connection plates holed, several verticals holed. Upper chords- light section loss. Lateral bracing- holed. Some plating done by BOBM; other areas same as previous report.</p>		
Inspection Date: 12/01/1997	Inspector: Not Available	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
<p>Notes: Deck: light cracks and spalls with rebar exposed and rusting, light leaking, several delaminations; steel grid damaged. sidewalks- timber- cracks, split, minor and light decay. Expansion device- expansion plates, finger joints, compression seals- minor damage. Super: Bearings- Rockers- heavily rusted with section loss. Stringers- I beams- moderate and heavy section loss with holed areas. Floor Beams- heavy section loss with holed areas. Trusses- lower chords- moderate section loss, several connection plates holed, several verticals holed. Upper chords- light section loss. Lateral bracing- holed</p>		

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Inspection History:

Inspection Date: 05/01/1997 Notes:	Inspector: Not Available	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
Inspection Date: 11/01/1996 Notes:	Inspector: Not Available	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
Inspection Date: 11/01/1995 Notes:	Inspector: Not Available	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
Inspection Date: 10/01/1994 Notes:	Inspector: Not Available	Deck: 6 Satisfactory Super: 4 Poor Substr: 6 Satisfactory Culvert: N N/A (NBI)
Inspection Date: 07/01/1993 Notes:	Inspector: Not Available	Deck: 6 Satisfactory Super: 5 Fair Substr: 7 Good Culvert: N N/A (NBI)

Bridge Lighting and Utilities: LIGHTS AND WIRES- OK.

Traffic Sign Notes: OK.

Traffic Sign Mounts: OK.

Copy Distribution:

- (2) Bureau of Municipal Hghways
- (3) Bureau of Municipal Hghways
- Bureau of Turnpikes

- Border State
- Bureau of Rail and Transit
- Army Corps Of Engineers
- Railroad

- Dept. of Res. and Econ. Dev.
- Dept. of Environmental Services
- USDA Forest Service
- Bureau of Traffic

FHWA STRUCTURE INVENTORY AND APPRAISAL SHEET

***** IDENTIFICATION *****

(1) STATE NAME: NEW HAMPSHIRE CODE: 331
 (8) STRUCTURE NUMBER: _____ # 247/84
 (5) INVENTORY ROUTE (ON / UNDER): - On = 121000010
 (2) STATE HIGHWAY DEPT. DISTRICT: _____
 (3) COUNTY CODE: _____
 (4) PLACE CODE: _____
 (6) FEATURES INTERSECTED PISCATAQUA RIVER
 (7) FACILITY CARRIED: US 1
 (9) LOCATION: 0.5 MI S OF US 1 / ME 103 INT
 (11) MILEPOINT: _____
 (16) LATITUDE: 430447.2
 (17) LONGITUDE: 704509.4
 (98) BORDER BRIDGE STATE CODE: 231
 PERCENT SHARE: 50 %
 (99) BORDER BRIDGE STRUCTURE NO.: _____

SUFFICIENCY RATING= 23.8%
 STATUS = Structurally Deficient

***** CLASSIFICATION ***** CODE:
 (112) NBIS BRIDGE LENGTH: Y
 (104) HIGHWAY SYSTEM: 1
 (26) FUNCTIONAL CLASS: 16
 (100) DEFENSE HIGHWAY: 0
 (101) PARALLEL STRUCTURE: N
 (102) DIRECTION OF TRAFFIC: 2
 (103) TEMPORARY STRUCTURE: _____
 (110) DESIGNATED NATIONAL NETWORK: 0
 (20) TOLL: 3
 (21) MAINTENANCE RESPONSIBILITY: 01
 (22) OWNER: NHDOT/MEDOT
 (37) HISTORICAL SIGNIFICANCE: 2

***** STRUCTURE TYPE & MATERIAL *****

(43) STRUCTURE TYPE MAIN:
 MATERIAL: Steel
 TYPE: Movable - Lift CODE: 315
 (44) STRUCTURE TYPE APPROACH:
 MATERIAL: Steel
 TYPE: Stringer/Mull-beam CODE: 302
 (45) NUMBER OF SPANS IN MAIN UNIT: 003
 (46) NUMBER OF APPROACH SPANS: 0010
 (107) DECK STRUCTURE TYPE: Concrete CIP CODE: 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) WEARING SURFACE: Other CODE: 9
 B) MEMBRANE: Epoxy CODE: 3
 C) DECK PROTECTION: None CODE: 0

***** CONDITION ***** CODE:
 (58) DECK: 4
 (59) SUPERSTRUCTURE: 3
 (60) SUBSTRUCTURE: 5
 (61) CHANNEL & CHANNEL PROTECTION: 6
 (62) CULVERTS: N

***** AGE AND SERVICE *****

(27) YEAR BUILT: 1921
 (106) YEAR RECONSTRUCTED: 1982
 (42) TYPE OF SERVICE: ON: Highway-Pedestrian
 UNDER: Waterway CODE: 55
 (28) LANES: ON STRUC.: 02 UNDER STRUC.: 00
 (29) AVERAGE DAILY TRAFFIC: 010000 001200
 (30) YEAR OF ADT: 2006 1998
 (109) TRUCK ADT: 5 %
 (19) BYPASS DETOUR LENGTH: 06 MI

***** LOAD RATING & POSTING ***** CODE:
 (31) DESIGN LOAD: H 15 2
 (64) OPERATING RATING: 0 0
 (66) INVENTORY RATING: 0 0
 (70) BRIDGE POSTING: 10 TOLL POST - No Posting Req'd 5 0
 (41) STRUCTURE OPEN, POSTED, CLOSED:
 DESCRIPTION: Open, No Restrictions A

***** GEOMETRY *****

(48) LENGTH OF MAXIMUM SPAN: (Cent-Cent) 0297 FT
 (49) STRUCTURE LENGTH: 001207 FT
 (50) CURB OR SIDEWALK: LEFT: _____ RIGHT: 06.0 FT
 (51) BRIDGE ROADWAY WIDTH, CURB TO CURB: 028.0 FT
 (52) DECK WIDTH, OUT TO OUT: 029.3 FT
 (32) APPROACH ROADWAY WIDTH (w/ Shoulders): 028 FT
 (33) BRIDGE MEDIAN: No Median CODE: 0
 (34) SKEW: 00 DEG.
 (35) STRUCTURE FLARED: 0
 (10) INVENTORY RTE. MIN. VERT. CLEAR: 17 FT 08 IN
 (47) INVENTORY RTE. TOTAL HORIZ. CLEAR: 28.0 FT
 (53) MIN VERT CLEAR Over BRIDGE RDWY: 17 FT 08 IN
 (54) MIN VERT UNDERCLEAR: Not Hwy or RR N00 FT 00 IN
 (55) MIN LAT UNDERCLEAR RT Not Hwy or RR N000 FT
 (56) MIN LAT UNDERCLEAR LT _____ 000 FT

***** APPRAISAL ***** CODE:
 (67) STRUCTURE EVALUATION: 3
 (68) DECK GEOMETRY: 5
 (69) UNDERCLEARANCES, VERT. & HORIZ.: N
 (71) WATERWAY ADEQUACY: 9
 (72) APPROACH ROADWAY ALIGNMENT: 6
 (36) TRAFFIC SAFETY FEATURES: 0000
 (113) SCOUR CRITICAL BRIDGES: 8

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK: _____ CODE: _____
 (76) LENGTH OF STRUCTURE IMPROVEMENT: _____ FT
 (94) BRIDGE IMPROVEMENT COST: _____
 (95) ROADWAY IMPROVEMENT COST: _____
 (96) TOTAL PROJECT COST: _____
 (97) YEAR OF IMPROVEMENT COST ESTIMATE: _____
 (114) FUTURE ADT: 0 14800
 (115) YEAR OF FUTURE ADT: 11 29

***** INSPECTIONS *****

(90) INSPECTION DATE: 10/03
 (91) FREQUENCY: _____ MO
 (92) CRITICAL FEATURE INSPECTION:
 A) FRACTURE CRITICAL DETAIL: Yes 0 MO
 B) UNDERWATER INSP.: Yes 0 MO
 C) OTHER CRITICAL INSP.: No _____ MO
 (93) CRITICAL FEATURE INSPECTION DATE:
 A) FRACTURE CRITICAL DETAIL: 10/03
 B) UNDERWATER INSP.: _____
 C) OTHER CRITICAL INSP.: _____

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL: Permit Req'd CODE: 1
 (111) PIER PROTECTION: In Place, Funct'g CODE: 2
 (39) NAVIGATION VERTICAL CLEARANCE: 150 FT
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEARANCE: 21.0 FT
 (40) NAVIGATION HORIZONTAL CLEARANCE: 247.25 FT

