

3-20-2007

## Piscataquis River Bridge, Howland : Inspection Report, March 20, 2007

Maine Department of Transportation

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## 15635 Howland – Piscataquis River Bridge #3040

Pontis 4.4.3 - You are currently logged in as BROWSER - [Bridge Inspection Mode: Edit Type: Regular NBI Key: EK55]

File View Tools Window Help

Bridge: 3040 Find... Inspections (2): 03/20/2007 Metric English Reports... Save

1 CONDITION 2 NOTES 3 WORK 4 APPRAISAL 5 INVENTORY 6 MAINE DOT 7 SCHEDULE 8 MEDIA

NBI Rating: Deck (58): 5 Fair Substructure (60): 4 Poor Culvert (62): N N/A (NBI)  
 Superstructure (59): 5 Fair Channel (61): 5 Bank Prot Ero Waterway (71): 9 Above Desirab  
 Unrepaired spalls: -1.000 (SF) Review Needed:  Status: New

Create Element Edit Element Remove Element NBI Translator Suff Rate Validate Quantity Percent

Key: 1		Structure Unit ID: 1		Type: M Main				
Elem / Env	Element Description	Quantity	UOM	Qty1	Qty2	Qty3	Qty4	Qty5
22 / 2	P Conc Deck/Rigid Ov (ea)	11,088.02	(SF)	0.00	0.00	0.00	1,088.02	0.00
302 / 2	Compressn Joint Seal	42.00	(LF)	8.39	23.10	10.50	0.00	0.00
113 / 2	Paint Stl Stringer	3,168.00	(LF)	1,172.16	855.36	823.68	316.80	0.00
121 / 2	P/Stl Thru Truss/Bot	1,056.00	(LF)	0.00	0.00	1,034.88	21.12	0.00
126 / 2	P/Stl Thru Truss/Top	1,056.00	(LF)	0.00	0.00	897.60	137.28	21.12
152 / 2	Paint Stl Floor Beam	651.00	(LF)	345.03	175.77	110.67	19.53	0.00

Compare: 3/20/2007 EKSS 0.00 0.00 1,034.88 21.12 0.00

Element Condition: < none >

State: 1 No corrosion There is no evidence of active corrosion, and the paint system is sound and functioning as intended

Ready prod\_pontis (browser) EDIT OFF 06/12/2008 14:40:05

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Show:  All Notes  Structure Notes Only  Inspection Notes Only

Structure Notes:



Empty text area for Structure Notes.

Inspection Notes:



Diver's Notes:  
Both piers have exposed footings. Pier #1(Ely) has exposed footing with undermining up to 24" deep x 19" hi. Was 18" deep x 6" hi in 2000. Rest of footing exposed completely around pier.  
Pier #2 (Wly) has exposed footing just at nose - up to 15" max.  
Typical scour scenarios with sand deposits DS of ea. pier.  
Ely abut. has no footing exposed.  
Wly abut. has footing exposed up to 17".

Inspector's Notes:  
The bridge overall is in fair cond. with scour issues and section loss through various truss members.  
The pier conc. has significant cracking and spalls.  
The abutment conc. is in fair cond.  
The bearings are fair/good cond.

Floor beams & soffit/deck in fair cond. Vertical posts, overhead truss, and br. rail have hit damage.  
The WS is in fair cond.  
Rust is prevalent throughout the truss members.

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1 CONDITION 2 NOTES 3 WORK 4 APPRAISAL 5 INVENTORY 6 MAINE DOT 7 SCHEDULE 8 MEDIA

Work Candidate ID	Scope	Work	Date Rec.	Year	Quantity	
A-DOT001-0D950622-00000000	P/Stl Thru Truss/To	Repl Elem	03/20/2007	2007	0.0	<input type="button" value="Create"/> <input type="button" value="Remove"/> <input type="button" value="Help"/>

Select Type of Work: Element NBI Project Info... Show Bridge Projects...

**Type of Work: Element**

Candidate ID: A-DOT001-0D950622-00000000

Structure Unit: 1 / Type=M

Element: 126 - P/Stl Thru Truss/Top

Action: 31 - Repl Elem

Priority: 1 - Medium

Date Recommended: 3/20/2007

Target Year: 2007

Assigned: No

Work Assignment: 0 - Agency

Status: 0 - Approved

Estimated Quantity: 0.0 (LF)

Estimated Cost: \$0.00

Applicable Condition States: 1 2 3 4 5

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1 Other Ratings  
2 Load Ratings

**Structure Appraisal:**

Open/Posted/Closed (41): A Open, no restriction  
Approach Alignment (72): 7 Above Min Criteria  
Bridge Railings (36a): 0 Substandard  
Transitions (36b): 0 Substandard  
Approach Guardrail (36c): 0 Substandard  
Appr Guardrail Ends (36d): 0 Substandard  
Pier Protection (111): Unknown (NBI)  
Scour Critical (113): 3 SC - Unstable

**NBI Appraisal Ratings - calculated:**

Structural Eval (67): 4 Minimum Tolerable  
Deck Geometry (68): 2 Intolerable - Replace  
Underclearances (69): N Not applicable (NBI)  
SD / FO Status: Structurally Deficient  
Sufficiency Rating: 48.6  
Health Index: 0

**Minimum Vertical Clearances:**

Over Structure (53): 14.583 ft  
Under (Reference) (54a): N Feature not hwy or F  
Under Clearance (54b): 0.000 ft

**Minimum Lateral Underclearance:**

Reference Feature (55a): N Feature not hwy or F  
Right Side (55b): 99.900 ft  
Left Side (56): 99.900 ft

**Navigation Data:**

Navigation Control Exists (38): Permit Not Required  
Nav Vertical Clr (39): 0 ft  
Nav Horizontal Clr (40): 0.000 ft  
Min Vert Lift Clr (116): 0 ft

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1 CONDITION 2 NOTES 3 WORK 4 APPRAISAL 5 INVENTORY 6 MAINE DOT 7 SCHEDULE 8 MEDIA

1 ID/Admin	<b>Structure Identification:</b>	
	Bridge No.:	3040
	Name:	PISCATAQUIS
	NBI Structure No (8):	3040 BRKEY: 3040
	<hr/>	
2 Design	<b>Location:</b>	<b>Age and Service:</b>
	Region (2): 04 Eastern	Year Built (27): 1928
3 Roads	County (3): 019 Penobscot	Year Reconstruct (106): -4
	City/Town/Placecode (4): 19310 Howland	Type of Service On (42a): 5 Highway-pedestrian
4 Structure Units	Feature Intersected (6a): PISCATAQUIS RIVER	Under (42b): 5 Waterway
	Facility Carried (7): COFFIN STR/RTE 116	# Lanes Under (28b): 0
	Location (9): 1 MI NE RTE 6	<b>Management:</b>
5 Classification	Latitude (16) / Long (17): 64d 10' 00.00" 021d 57' 00.00"	Maint Resp (21): State Highway Agency
	Border St/FHWA Reg (98): Not Applic. Not Applica	Owner (22): State Highway Agency
	Share: 0 %	On/Off Agency System: On System
	Border Struct No (99): n/a	Agency Bridge Group: GP17
	FIPS State/Region (1): 23 Region 1-Albany	Division: 03 Bangor

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1 Bridge  
2 Inspections  
3 Roadways  
4 Structure Units

<b>Bridge No.</b>	<b>Town</b>	<b>Owner</b>	<b>Maintainer</b>
3040	Howland	1 State DOT	1 State DOT
<b>Bridge Name</b>	<b>Town2</b>	<b>Co-Owner</b>	<b>Co-Maintainer</b>
PISCATAQUIS	no town	N Not applicable	N Not applicable

	Main Span	Approach Span	
<b>Type</b>	5 Truss	-	<b>Clear Span Length</b> 0.0 ft
<b>Sub Type</b>	2 Thru	-	<b>Min Vertical Underclearance</b> 18.0 ft
<b>Construction</b>	2 Riveted	-	<b>Curb Reveal Left</b> 0.7 ft
<b>Material</b>	1 Steel	-	<b>Curb Reveal Right</b> 0.7 ft
<b>Continuity</b>	1 Non Continuous	-	
<b>Composite</b>	1 Non Composite	-	
<b>Movable</b>	0 No	-	

**Repairs Done**

1st	1973	-1
2nd	1972	-1
3rd	0	-1
4th	0	-1
5th	0	-1

Wear Surf Repl Year: 0  
Year Complete Painting: 0

**Shaft and Foundation**

<b>Shaft Type 1</b>	1 Mass Concrete
<b>Shaft Type 2</b>	N Not Applicable
<b>Shaft Type 3</b>	N Not Applicable
<b>Foundation Type 1</b>	3 Gravel base
<b>Foundation Type 2</b>	N Not Applicable
<b>Foundation Type 3</b>	N Not Applicable

**Posting Status** 1 Open

**Posting Type** 0 None needed

**Single Vehicle Loading** 0.0 ton

**Semi Truck Loading** 0.0 ton

**Utilities**

<b>Telephone</b>	Yes	<b>TV Cable</b>	No
<b>Water</b>	Yes	<b>Power</b>	Yes
<b>Sewer</b>	No	<b>Dry Hydrant</b>	No
<b>Gas</b>	No	<b>Other</b>	No

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**Summary:**

Inspection Date: 03/20/2007  
 Inspector: C. EDWARDS (36)  
 Primary Type: Regular NBI  
 Review Required:   
 Inspection Group: -1

**Types Of Inspections Performed:**

National Bridge Inventory:   
 Element:   
 Fracture Critical:   
 Underwater:   
 Other Special:

**Schedule:**

	Required (Y/N)	Last Date	Frequency	Next Date
NBI (90):		11/04/2004	(91): 24 mos	03/20/2009
Fracture Critical (92A):	<input type="checkbox"/>	(93A): 1/1/1901	(92A): -1 mos	1/1/1901
Underwater (92B):	<input checked="" type="checkbox"/>	(93B): 10/5/2000	(92B): 24 mos	3/20/2012
Other Special (92C):	<input type="checkbox"/>	(93C): 1/1/1901	(92C): -1 mos	1/1/1901
Element:	NA		24 mos	03/20/2009

**Bridge Inspection Resources:**

Next Inspector: P. Pontis (1) Crew Hours: 0 Snooper Hours: 0  
 Bridge Group: GP17 Flagger Hours: 0 Special Crew Hours: 0  
 Helper Hours: 0 Special Equip Hours: 0





Damaged flange



Damaged truss post/connection



Bridge rail damage



Rotted angle

3040

Howland

Piscataquis

03-20-07



Soffit/beams



Left abutment



General view



Truss connections - Upstream side

3040

Howland

Piscataquis

09-27-06



General view



Looking easterly



Sidewalk



Truss - note paint failure

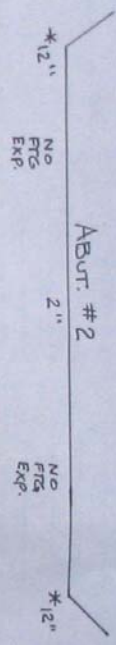
3040

Howland

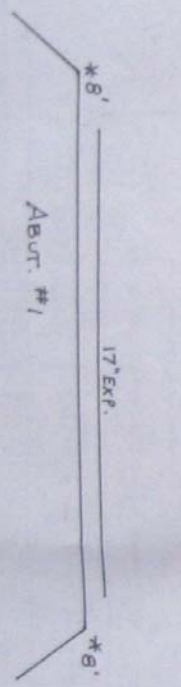
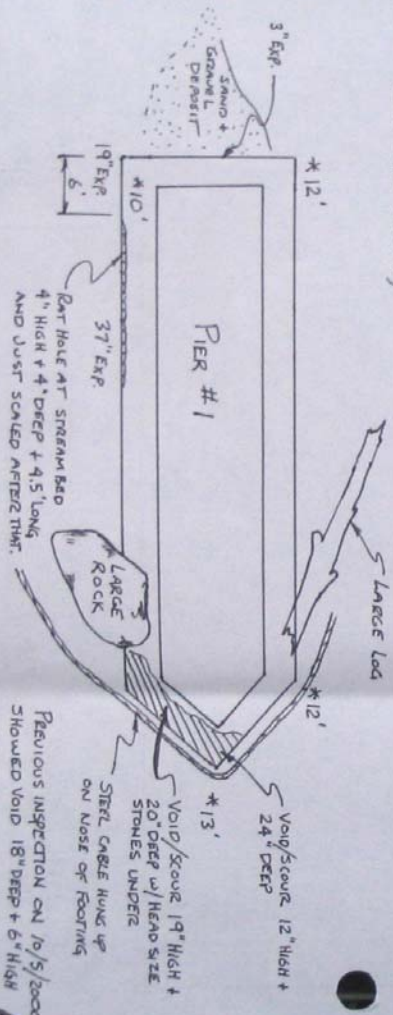
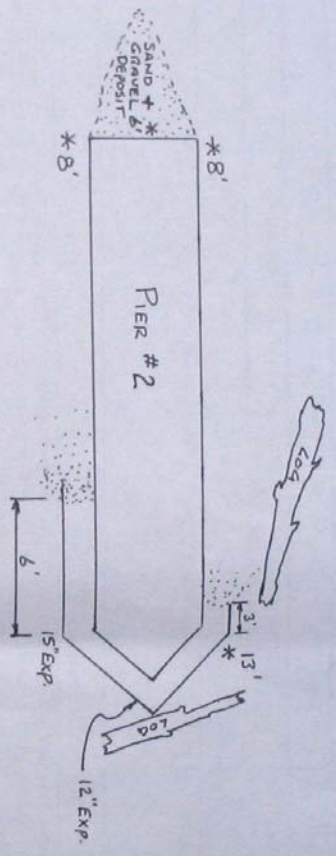
Piscataquis

03-20-07





PISCATAQUIS RIVER  
 FLOW  
 (DOWN DOWN STREAM)



ENTRY FROM DECK/RAMP

\* : DEPTH BY DIVE GAUGE

3040

HOWLAND

PISCATAQUIS

09-27-06