

Inspector: VHB,VHB
Inspection Date: 12/04/2024

Structure Number: 1558
Facility Carried: I 395

Highway Bridge Inspection Report

Inspection Type(s): Routine

Bridge Name: VETERANS REMEMBRANCE

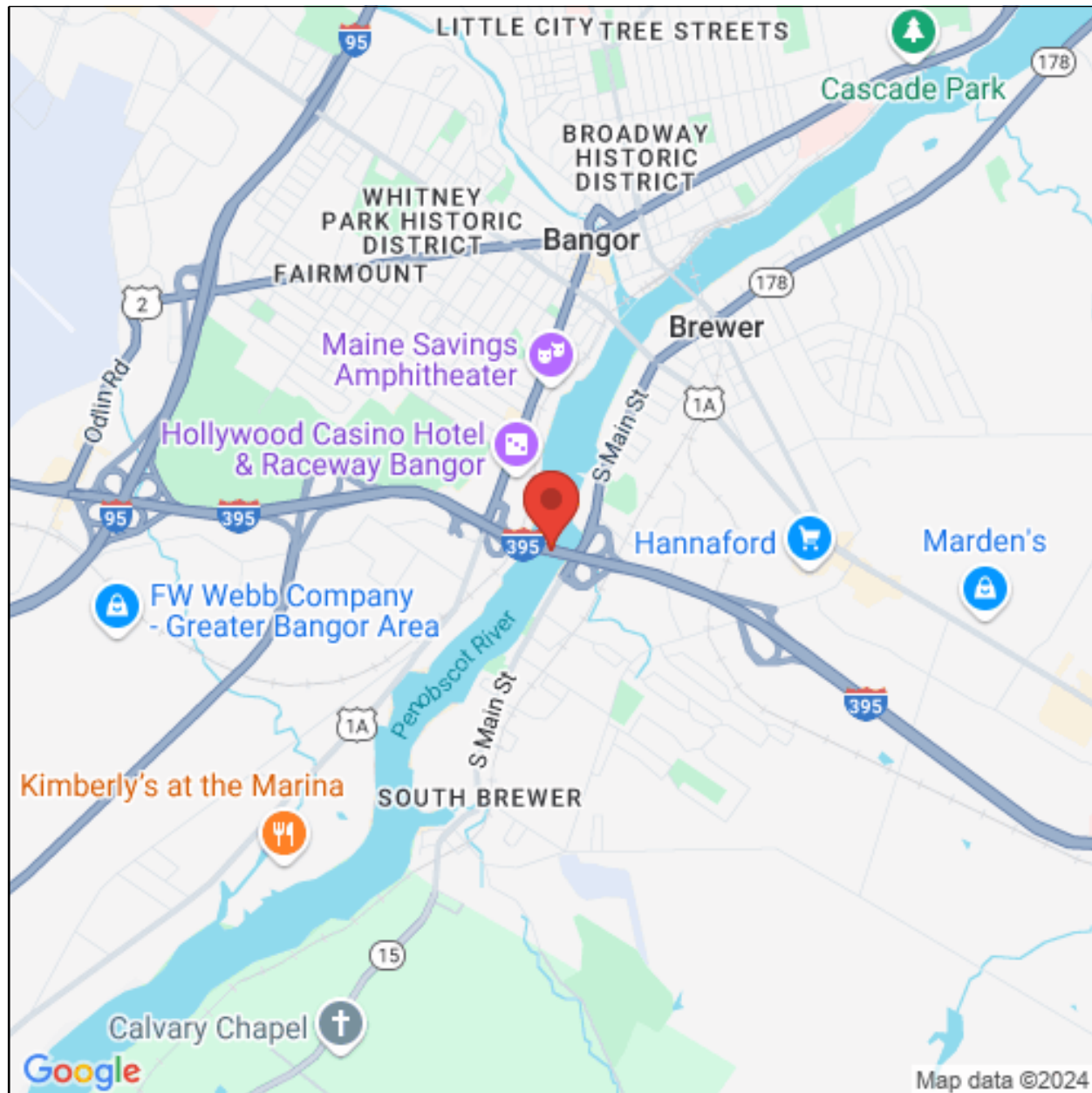
Town: Bangor



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Latitude: 44.78412

Longitude: -68.77434

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National Bridge Inventory

Status: 0 - ND

Bridge Name: VETERANS REMEMBRANCE

Sufficiency Rating: 92.7

Inspections

(90) INSPECTION DATE	& (91) DESIGNATED INSPECTION FREQUENCY	24	12/04/2024
(92) CRITICAL FEATURE INSPECTION	& (93) CFI DATE		
(92A) FRACTURE CRITICAL DETAIL		N	
(92B) UNDERWATER INSPECTION		Y	60
(92C) OTHER SPECIAL INSPECTION		N	08/30/2024

Identification

(1) STATE CODE	231 - Maine
(8) STRUCTURE NUMBER	1558
(5) INVENTORY ROUTE	
(5A) RECORD TYPE	1: Route carried "on" the structure
(5B) ROUTE SIGNING PREFIX	3 - STATE HIGHWAY
(5C) DESIGNATED LEVEL OF SERVICE	1 - MAINLINE
(5) INVENTORY ROUTE	395
(5) INVENTORY ROUTE	0 - NOT APPLICABLE
(2) HIGHWAY AGENCY DISTRICT	04 - Eastern
(3) COUNTY CODE	019 Penobscot
(4) PLACE CODE	02795
(6) FEATURES INTERSECTED	PENOBSCOT RV & S MAIN ST
(7) FACILITY CARRIED	I 395
(9) LOCATION	0.1 MI E OF JCT RTE 1A
(11) MILEPOINT	1.900
(12) BASE HIGHWAY NETWORK	Inventory Route is on the Base Network
(13) LRS INVENTORY ROUTE, SUBROUTE	
(13A) LRS INVENTORY ROUTE	000000395X
(13B) SUBROUTE NUMBER	00
(16) LATITUDE	44.78412
(17) LONGITUDE	-68.77434
(98A) BORDER BRIDGE CODE	
(98B) PERCENT RESPONSIBILITY	0
(99) BORDER BRIDGE STRUCT NO.	n/a

Structure Type and Material

(43) STRUCTURE TYPE, MAIN	
(43A) KIND OF MATERIAL/DESIGN	4 - Steel continuous
(43B) TYPE OF DESIGN/CONSTR	02 - Stringer/Multi-beam or Girder
(44) STRUCTURE TYPE, APPROACH SPANS	
(44A) KIND OF MATERIAL/DESIGN	0 - Other
(44B) TYPE OF DESIGN/CONSTRUCTION	00 - Other
(45) NUMBER OF SPANS IN MAIN UNIT	8
(46) NUMBER OF APPROACH SPANS	0
(107) DECK STRUCTURE TYPE	1 - Concrete Cast-in-Place
(108) WEARING SURFACE/PROTECTIVE SYSTEMS	
(108A) WEARING SURFACE	6 - Bituminous
(108B) DECK MEMBRANE	9 - Other
(108C) DECK PROTECTION	0 - None

Age of Service

(27) YEAR BUILT	1986
(106) YEAR RECONSTRUCTED	
(42) TYPE OF SERVICE	
(42A) TYPE OF SERVICE ON BRIDGE	1 - Highway
(42B) TYPE OF SERVICE UNDER BRIDGE	8 - Highway - waterway - railroad
(28) LANES	
(28A) LANES ON THE STRUCTURE	06
(28B) LANES UNDER THE STRUCTURE	04

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(29) AVERAGE DAILY TRAFFIC	16550
(30) YEAR OF AVERAGE DAILY TRAFFIC	2016
(109) AVERAGE DAILY TRUCK TRAFFIC	5
(19) BYPASS DETOUR LENGTH	2

Geometric Data

(48) LENGTH OF MAXIMUM SPAN (ft.)	300.0
(49) STRUCTURE LENGTH (ft.)	1562.0
(50) CURB/SIDEWALK WIDTHS	
(50A) LEFT CURB SIDEWALK (ft.)	0.6
(50B) RIGHT CURB SIDEWALK (ft.)	0.6
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	100.6
(52) DECK WIDTH, OUT-TO-OUT (ft.)	108.1
(32) APPROACH ROADWAY WIDTH (ft.)	50
(33) BRIDGE MEDIAN	3 - Closed median with non-mountable barriers
(34) SKEW (deg.)	0
(35) STRUCTURE FLARED	1 - Yes, flared
(10) INV RTE, MIN VERT CLEARANCE (ft.)	328.05
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	50
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	327.76
(54) MIN VERTICAL UNDERCLEARANCE	
(54A) REFERENCE FEATURE	H - Highway beneath structure
(54B) MIN VERTICAL UNDERCLEARANCE (ft.)	25
(55) MIN LATERAL UNDER CLEARANCE RIGHT	
(55A) REFERENCE FEATURE	H - Highway beneath structure
(55B) MIN LATERAL UNDER CLEARANCE RIGHT (ft.)	27.89
(56) MIN LATERAL UNDER CLEARANCE (ft.)	26.6

Classification

(112) NBIS BRIDGE LENGTH	Yes
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1 - Structure/Route is on NHS
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	11 - Urban - Principal Arterial - Interstate
(100) STRAHNET HIGHWAY DESIGNATION	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE DESIGNATION	N - No parallel structure
(102) DIRECTION OF TRAFFIC	1-way traffic
(103) TEMP STRUCTURE	
(105) FEDERAL LANDS HIGHWAYS	Not Applicable
(110) DESIGNATED NATIONAL NETWORK	Inventory route on National Truck Network
(20) TOLL	3 - On Free Road
(21) MAINTENANCE RESPONSIBILITY	01 - State Highway Agency
(22) OWNER	01 - State Highway Agency
(37) HISTORICAL SIGNIFICANCE	4 - Not determinable

Condition

(58) DECK	6 - Satisfactory Condition (minor deterioration)
(59) SUPERSTRUCTURE	6 - Satisfactory Condition (minor deterioration)
(60) SUBSTRUCTURE	6 - Satisfactory Condition (minor deterioration)
(61) CHANNEL & CHANNEL PROTECTION	7 - Bank protection needs minor repairs
(62) CULVERT	N - Not Applicable

Load Rating and Posting

(31) DESIGN LOAD	9 - HS 25 or greater
(63) METHOD USED TO DETERMINE OPERATING RATING	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
(64) OPERATING RATING	1.31
(65) METHOD USED TO DETERMINE INVENTORY RATING	8 - Load and Resistance Factor Rating (LRFR) rating report by rating factor (RF) method using HL-93 loadings.
(66) INVENTORY RATING	1.01
(70) BRIDGE POSTING	5 - Equal to or above legal loads
(41) STRUCTURE OPEN/POSTED/CLOSED	A - Open

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Appraisal

(67) STRUCTURAL EVALUATION	6
(68) DECK GEOMETRY	9
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	7
(71) WATERWAY ADEQUACY	9 - Bridge Above Flood Water Elevations
(72) APPROACH ROADWAY ALIGNMENT	7 - Better than present minimum criteria
(36) TRAFFIC SAFETY FEATURE	
36A) BRIDGE RAILINGS:	0 - Does not meet acceptable standards/safety feature is required
36B) TRANSITIONS:	0 - Does not meet acceptable standards/safety feature is required
36C) APPROACH GUARDRAIL	0 - Does not meet acceptable standards/safety feature is required
36D) APPROACH GUARDRAIL ENDS	0 - Does not meet acceptable standards/safety feature is required
(113) SCOUR CRITICAL BRIDGES	5 - Scour within limits of footing or piles

Proposed Improvements

(75) TYPE OF WORK	
(75A) TYPE OF WORK PROPOSED	
(75B) WORK DONE BY	
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)	
(94) BRIDGE IMPROVEMENT COST (\$K)	
(95) ROADWAY IMPROVEMENT COST (\$K)	
(96) TOTAL PROJECT COST	
(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(114) FUTURE ADT	23170
(115) YEAR OF FUTURE ADT	2036

Navigation Data

(38) NAVIGATION CONTROL	1 - Navigation control on waterway (bridge permit required)
(111) PIER OR ABUTMENT PROTECTION	2 - In place and functioning
(39) NAV VERT CLEARANCE	70
(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE	0
(40) NAV HORIZONTAL CLEARANCE	270

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7.1 Component Condition Ratings

(B.C.05) Bridge Railings	4
(B.C.06) Bridge Railing Transitions	6
(B.C.07) Bridge Bearings	4
(B.C.07) Bridge Joints	4
Bridge Joint Seal	6

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Inspection Notes

Structure Number: 1558

Town: Bangor

Structure Name: VETERANS REMEMBRANCE

Structure Notes

1986 Eight span, weathering steel, welded girders with concrete deck, abutments, piers and wingwalls.

Wearing Surface

Moderate ruts in the wheel path in both the eastbound and westbound travel lanes.
The approach pavement at the west abutment is beginning to settle and crack near the header.

Deck

NBI Item 58: 6

The concrete median barrier has extensive moderate cracks and dark staining throughout.
The concrete portion of the curb has scattered scaling along the entire length of the bridge, with some locations undermining the rail post baseplate.
The bridge rail has scrapes and scattered cracked rail posts and missing anchor bolts throughout.
The joint armor is protruding due settlement and ruts at the west approach and there is debris in the west abutment joint seal.
The deck drain downspouts have severe rust and section loss on the end 6".
The finger joint at Pier 2 is not aligned and is causing plow damage to the steel.
The underside of the deck has small areas of scattered transverse cracking with efflorescence in the upstream bays and in Span 8.
The end haunch at the west abutment has rust stains and is beginning to spall onto the bridge seat.
The north deck overhang has minor rust stains at bent bar ends.

Superstructure

NBI Item 59: 6

The patina on the exterior girders is failing where the bridge drain bracket connects to the web plate. There is scattered locations of patina failure between the drains.
The beam ends and bearings at Pier 2 below the open finger joint have moderate rust with significant patina failure.
The girder bottom flanges near the east abutments have minor rust scaling.
There is rust and minor section loss at the bottom members of the east end diaphragms.
The bearing slide plates are delaminating, and the teflon sheet is compressed unevenly on all bearings.
The bearings at the east abutment are expanded past neutral at an ambient temperature of 16F. All of the bearings at the east abutment are laterally shifted 1" off alignment of the masonry plate.
Bearings at both Pier 6 and 7 have slid close to maximum. This has been monitored for some time.
Girder G8 on Span 1 has a slope change at the bottom flange near the bearing with discoloration of the patina.
The remaining girder ends and bearings have minor rust scaling and pitting.

Substructure

NBI Item 60: 6

The east abutment breastwalls and backwalls have widespread cracks, rust stains, and efflorescence, with scattered areas of surface scaling.
Both corners at the east abutment have severe cracks and moderate spalls.
The east abutment footing is exposed at the north end due to erosion.
The bearing pedestals at the east abutment have rust stains and map cracks with widths up to 1/8".
The pier cap bearing pedestals have rust stains under the bearings.
The pier cap at Pier 2 has map cracks and rust stains below the open finger joint.

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The north and south faces of the pier cap on Pier 2 have spalls and significant map cracks. There is exposed rebar on the north face. Pier 3 has tension rods in the footing and between the pier columns due to a vertical crack in the footing. The steel sheet pile protection on the west of Pier 3 is starting to bow toward the shore. The east face of Pier 7 has minor map cracks with scattered vertical hairline cracks. All of the pier footings have map cracks and efflorescence below the high tide mark. The west abutment has map cracks at the breast wall and bridge seat.

Culvert

NBI Item 62: N

Channel

NBI Item 61: 7

No major problems noted. See most recent underwater report for channel details.

Other

Approach rail damage at ramp 3 westbound off ramp to Bangor Main street (RT 9 & 1A).

Special Inspection

Monitoring

Pontis Notes

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	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	4 - Sev.	168960	sq. ft.	80000	88960	0	0
510-Wearing Surfaces		157238	sq. ft.	107238	50000	0	0
107-Steel Open Girder/Beam	2 - Low	12504	ft.	12000	504	0	0
515-Steel Protective Coating		12504	sq. ft.	9800	2504	100	100
808-Weathering Steel Protective Coating (Patina)		12504	sq. ft.	9800	2504	100	100
210-Reinforced Concrete Pier Wall	3 - Mod.	14	ft.	10	4	0	0
215-Reinforced Concrete Abutment	3 - Mod.	216	ft.	0	126	90	0
234-Reinforced Concrete Pier Cap	2 - Low	757	ft.	520	157	80	0
302-Compression Joint Seal	4 - Sev.	108	ft.	97	8	3	0
304-Open Expansion Joint	4 - Sev.	216	ft.	176	40	0	0
311-Movable Bearing	3 - Mod.	76	each	0	60	16	0
331-Reinforced Concrete Bridge Railing	4 - Sev.	1563	ft.	0	1563	0	0
801-Beam End	3 - Mod.	20	each	20	0	0	0
515-Steel Protective Coating		20	sq. ft.	10	10	0	0
808-Weathering Steel Protective Coating (Patina)		20	sq. ft.	10	10	0	0
811-Signs	2 - Low	1	each	1	0	0	0
812-Street Lighting	2 - Low	4	each	4	0	0	0
815-Joint Seal	4 - Sev.	1	each	0	0	1	0
816-Joint Curtain	4 - Sev.	16	each	16	0	0	0
820-Reinforced Concrete Wall	2 - Low	50	ft.	0	47	3	0
841-Asphalt Wearing Surface with Membrane	4 - Sev.	157238	sq. ft.	107238	50000	0	0
871-Aluminum Bridge Railing	4 - Sev.	3126	ft.	1062	2000	64	0

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Over Limit Report

Bridge #: 1558
Bridge Name: VETERANS REMEMBRANCE
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 04 - Eastern

Town1: Bangor
Town2: Brewer
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Vertical Clearance - Under

Left, Center, and Right is based on the direction of travel

Roadway - Heading North or East

Actual Heights in Feet-Inches

Date Measured: 08/10/2021

	<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
Main: PENOBSCOT RV & S MAIN ST	45 - 2	45 - 2	45 - 2	<input type="checkbox"/> Main	-
Other:	-	-	-	<input type="checkbox"/> Other	-
Ramps:	-	-	-	<input type="checkbox"/> Ramp	-

Roadway - Heading South or West

Actual Heights in Feet-Inches

Date Measured: 08/10/2021

	<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>	<u>Deficient Sign</u>
Main: PENOBSCOT RV & S MAIN ST	45 - 2	45 - 2	45 - 2	<input type="checkbox"/> Main	-
Other:	-	-	-	<input type="checkbox"/> Other	-
Ramps:	-	-	-	<input type="checkbox"/> Ramp	-

Vertical Clearance - Portal

Roadway: I 395

Heading North or East

Actual Heights in Feet-Inches

Date Measured:
Deficient Sign

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>
-	-	-	<input type="checkbox"/> Portal

Heading South or West

Actual Heights in Feet-Inches

Date Measured:
Deficient Sign

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Posted</u>
-	-	-	<input type="checkbox"/> Portal

Permitting

Pointer

☐ Red Flag Comments

Heading North Height: 45 - 0 2040574-BRPT
Heading South Height: 45 - 0 2783201-BRPT
Left Ramp Height: -
Right Ramp Height: -
Portal North Height: -
Portal South Height: -
Other Road Height: -

Bridge Width: 100.6 ft
Roadway Width: 50 ft

*Underclearance heights are signed if less than 14 ft 6 in
Check with Maine Turnpike Authority for load heights over 13 ft 6 in
Always check 511*

Load Restrictions

Posted tons Date posted:
Posted One Truck at aTime
Posted for 4 axle only
Operating Load Rating 1.31
Permit Load Ratings axles

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axles
axles

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Underwater Dive Inspection Report

Structure Number:	1558	Bridge Name:	VETERANS REMEMBRANCE
Town 1:	19020 - Bangor	Town 2:	19050 - Brewer
Division:	Bangor	DiveID:	5020
Location:	0.1 MI E OF RTE 1A		
Tide Information:	Currents can get beyond 2 knots. Dive at slack tide		
Dive Entry Location:	Boat dive, put in at boat launch .8 miles southwest of bridge		
Scour:	6		

Comments/Hazards:

Current can be strong, dive at slack current when possible. Construction debris-steel beams, rebars, etc.
Notified Bangor Police at 207-947-7384.
Debris steel H-pile cut 3'4" above mudline on south side of Pier 3. Debris and timber whalers on mudline along channel side of Pier 3. Logs and Timbers on the mudline are located on south side of Pier 5.

Streambed Description:

Leftover rocks from construction 1 foot diameter, gravel. Sandy gravel with silt and cobbles.

Channel Description:

Mostly flat and even around piers. The channel is located between Piers 3 and 4. The channel bed is composed of silty gravel with some cobbles and remains flat and even between channel piers. The western riverbank is being retained by timber cribbing that has displaced and failed.

Substructure Description:

8 span welded A588 beams on stub conc. abuts & reinf. conc. piers. Piers #3 thru #6 were inspected other piers are in dry
See previous UW inspection reports for history.

2020: The bridge is 8 span with two abutments and a total of 7 piers, 3 of which were dry at the time of inspection. Piers 1, 2, and 7 are dry. Pier 6 is dry at low tide. Pier 3 and Pier 4 consist of steel sheet pile and a timber fender system. The sheet pile has coating loss up to 50% above MLW. Below MLW there is approximately 5% coating loss in localized areas. The areas of exposed steel is typically pitted up to 1/8 inch deep. Ultrasonic thickness measurements show a typical steel thickness of 0.645 inch on the flanges and 0.500 inch on the webs within the coated areas of steel. No cathodic protection was observed on the steel sheet pile. The timber fender systems on Piers 3 and 4 are in poor condition with sections of timber wale missing, specifically within the tidal zone. Piers 5 and 6 consist of a concrete pier stem, footing, and seal. The concrete seal is not exposed on Pier 6 with the western side of the seal exposed on Pier 5. Widespread map cracking was observed on the entire footing as well as the bottom 8 feet of the stem on both Pier 5 and 6. On Pier 5 minor concrete disintegration was noted with exposed reinforcing steel at the northwest corner of the footing. The concrete on Piers 5 and 6 is typically 1/2 inch soft. The timber cribbing retaining the northern riverbank has failed.

2024: Piers #3 thru #6 were inspected as part of this inspection as it was high tide, other piers are in dry. No significant changes in Pier 3 or 4 from the 2020 inspection (see above). The sheet piling on the westerly side of Pier 3 is leaning about 2' out at the top. Wide-spread cracking is still prevalent in Piers 5 & 6 above and below the waterline. Pier 6 does have seal exposed that was not noted in the 2020 inspection.

Inspection Team:	Role:	Dive Conditions:
Michael Falla	TL,SD	Time: Entry: 8:05 AM/PM AM
Rylan Norris	D	Time: Exit: 9:10 AM/PM AM
Michael Barden	T	Water Temp: 60
	D	Visibility (ft): 5'-6'
	T	Max Depth (ft): 32
		Current: 0-2 knots
		Weather: Sunny
	D	Underwater Inspection Date: 08/30/2024
		Channel Condition: 7

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Substr/Culvert Condition: 6
Inspection Cycle: Y60

Ratings Comments:

No significant changes to warrant any rating change at this time.

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Pictures



PHOTO 1

Description South elevation of the bridge.



PHOTO 2

Description General view of the east approach.

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Pictures



PHOTO 3

Description General view of the eastbound wearing surface with median barrier.



PHOTO 4

Description Spalled concrete curb with undermining at the bridge rail post.

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Pictures



PHOTO 5

Description Impact damage to the south bridge rail on the eastbound lane with minor crack between the granite and concrete curbs.



PHOTO 6

Description Typical bridge rail post with missing anchor nuts.

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Pictures



PHOTO 7

Description Typical condition of the finger joints on the bridge. Pier 2 joint shown, east abutment similar.



PHOTO 8

Description Underside view of the east abutment finger joint. Note the misalignment in the joint.

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Pictures



PHOTO 9

Description General view of the bridge joint at the west abutment with scattered cracks in the header and shoulder pavement.



PHOTO 10

Description South elevation of the exterior girder patina failure on the exterior girder at the downspout connection to the web.

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Highway Bridge Inspection Report

Pictures



PHOTO 11

Description General view of the north fascia, exterior girder, and deck underside with cracks and efflorescence.



PHOTO 12

Description Typical condition of the deck underside.

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Highway Bridge Inspection Report

Pictures



PHOTO 13

Description Typical alignment of the east abutment bearings.



PHOTO 14

Description Typical condition of the bearing plate with separation of the mirror plate. Note rust and pitting at the girder end. West abutment bearing shown, others similar.

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Highway Bridge Inspection Report

Pictures



PHOTO 15

Description South elevation at Pier 2. Note longitudinal cracks in the fascia with efflorescence, and map cracks on the pier cap.



PHOTO 16

Description West elevation of Pier #1

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Pictures



PHOTO 17

Description General view of Pier 3 with sheet piling pier protection. Pier 4 similar. Note rust stains on the pier caps below the bearings typical at all piers.



PHOTO 18

Description Typical condition of the pier footing where sheet piling is not present. Note scattered cracks, efflorescence, and map cracks below the highwater line. Pier 5 shown.

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Pictures



PHOTO 19

Description Large cracks and spalls at near the bridge seat at the north abutment.



PHOTO 20

Description North corner of the east abutment with cracks, spalls, and exposed footing.

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Pictures



PHOTO 21

Description East abutment elevation.



PHOTO 22

Description West abutment elevation.

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Pictures



PHOTO 23

Description Upstream.



PHOTO 24

Description Downstream.

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Maintenance Work Items

Structure Number: 1558

Structure Name: VETERANS REMEMBRANCE

Town: 19020

Owner: VHB,VHB

Type	Work Item	Priority	Notes
Maintenance	Rehab Substructure		Rehab the abutments and cracked concrete at pier caps.
Safety	Repair Bridge Rail		Repair the damaged rail and posts as needed and install new anchor bolts
Preservation	Rehab/Replace Drain		As needed
Preservation	Coat Beam Ends		Schedule
Safety	Other		Add cages to pier access ladders, Add addition rail to step downs along pier faces.
Maintenance	Reset Bearings		Reset bearings as needed.
Maintenance	Other		Repair slide plates on bearings
Preservation	Other		Apply Silane
Preservation	Other		Install riprap at the east abutment exposed footing
Maintenance	Clean		Clean pier 2 bridge seat area
Safety	Repair Accident Damage		Repair damaged elliptical rail at ramp 3 (main street Bangor)
Maintenance	Repair Deck		Repair scaling and spalls at curb tops

Inspector: VHB,VHB
Inspection Date: 12/04/2024

Structure Number: 1558
Facility Carried: I 395

Highway Bridge Inspection Report

MaineDOT NBIS Bridge Safety Inspection JSA

Inspector: VHB,VHB
Team Lead: Lewis Benner
Structure Number: 1558
Structure Name: VETERANS REMEMBRANCE
Town: Bangor

Additional Team Members/Visitors:

- | | |
|------------------|-----|
| 1.) Haven Rose | 6.) |
| 2.) Ryan Donahue | 7.) |
| 3.) | 8.) |
| 4.) | 9.) |
| 5.) | |

Job being performed:

Routine bridge inspection

Potential Hazard:

- ☒ Exposure to traffic

Potential Hazard:

- ☒ Steep slopes and uneven working areas
(rip rap, mud, loose fill, etc)

Potential Hazard:

- ☒ Chipped Concrete or Steel (hand tools only)

Potential Hazard:

- ☒ 6' Vertical drops

Potential Hazard:

- ☒ Water Hazards

- ☐ Water depth under 1 foot
☐ Water depth 1 to 4 feet
☒ Water depth over 4 feet
☐ Water flow calm/slow moving
☒ Water flow visible/not rapid
☐ Water flow rapid with some short falls
☐ Tidal Water

Controls:

- ☒ Parked off road with strobe
☒ Less than 1 hour on bridge
☒ Wear standard reflective clothing and hard hat
☒ Spotter ☒ Traffic Control Crew

Controls:

- ☒ Wear appropriate, prudent footwear
☐ Rope or fall protection

Controls:

- ☒ Wear appropriate, prudent eye/hand protection

Controls:

- ☒ Stay away from areas

Controls:

- ☒ Evaluate Water Hazard conditions
☒ Use/Wear appropriate PPE
☒ Buddy System

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Stay 10' from water

Potential Hazard:

☒ Insects, Poision Ivy, or other environmental hazards

Potential Hazard:

☒ Lead paint and Avian excrement

Potential Hazard:

☒ Heavy Manual Lifting

Potential Hazard:

☒ DCS, Lung Expansion

Potential Hazard:

☒ Entanglement U/W

Potential Hazard:

☒ Boat Traffic

Potential Hazard:

☒ Cold Water

Potential Hazard:

☒ Live Boating

Other Potential Hazards:

Controls:

☒ Apply insect repellant and/or sunscreen

☒ Protect skin with appropriate, prudent clothing

Controls:

☒ Wear gloves, do not scrape

Controls:

☒ Ask for assistance in donning dive gear,
lifting equipment

Controls:

☒ Ascend slowly, user computers, Safety Stops
(15' mark for 3 min.)

Controls:

☒ Use knife, Comm gear

Controls:

☒ Fly Dive Flag, user spotter, contact bridge
on Chan. 13

Controls:

☒ Use adequate dry suit underwear
for water temperature

Controls:

☒ Keep track of divers, avoid powering during
drop-off/pick-up

Other Controls:

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Safety Equipment Required:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Hard hat | <input checked="" type="checkbox"/> Sunscreen |
| <input checked="" type="checkbox"/> Vest | <input checked="" type="checkbox"/> First Aid |
| <input checked="" type="checkbox"/> Glasses | <input type="checkbox"/> O2 |
| <input checked="" type="checkbox"/> Gloves | <input type="checkbox"/> AED |
| <input checked="" type="checkbox"/> PFD | <input type="checkbox"/> Comm Gear |
| <input checked="" type="checkbox"/> Rain Gear | <input checked="" type="checkbox"/> Cell Phone |
| <input checked="" type="checkbox"/> Bug Spray | <input checked="" type="checkbox"/> Boat |

- | |
|--|
| <input checked="" type="checkbox"/> Throw Ring |
| <input checked="" type="checkbox"/> Throw Rope |
| <input type="checkbox"/> Positioning Device |

Emergency Action Plan:

- | |
|---|
| <input checked="" type="checkbox"/> Call 911 |
| <input checked="" type="checkbox"/> First Aid Kit |
| <input type="checkbox"/> Fall Rescue Plan |
| <input checked="" type="checkbox"/> Water Rescue Plan |
| <input type="checkbox"/> Dan 1-919-684-9111 |
| <input type="checkbox"/> USCG 741-5465 |

Other Safety Equipment:

--

Other Emergency Action Plan:

--

I certify that the MaineDOT NBIS Bridge Safety Inspection JSA has been completed according to all proper procedures required by the Maine Department of Transportation.

☒ Complete Lewis Benner

Inspector: VHB,VHB
Inspection Date: 12/04/2024

Structure Number: 1558
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Highway Bridge Inspection Report

Bridge Components

Bridge #: 1558
Bridge Name: VETERANS REMEMBRANCE
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 04 - Eastern

Town1: Bangor
Town2: Brewer
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Deck

Joint Seal Type/MFG:

- ☐ Emseal
☐ V Seal
☐ Watson Bowman
☐ Hot Rubber
☐ Pour-in-Place
☐ DS Brown

Joint Types:

- ☐ Finger
☐ Asphaltic Plug
☐ Compression
☐ Modular
☐ Gland
☐ Waybo Crete

- ☐ Sliding
☐ Transflex
☒ 216 Open

Joint HDR Mat:

- ☐ Concrete
☐ Delcrete
☐ Elastomeric
☐ LP Concrete
☐ Phoscrete
☐ Plycrete

Other:

- ☐ Curtain
☐ Troughs
☐ Armor

Rebar Type:

Superstructure

Left Side Rail:

Material Aluminum ☐ Retrofit
Shape Semi-Elliptical ☐ Safety Walk
Attached To Curb ☐ Pales
Number of Bars 3 ☐ Snow Fence
Extra Height N

Right Side Rail:

Material Aluminum ☐ Retrofit
Shape Semi-Elliptical ☐ Safety Walk
Attached To Curb ☐ Pales
Number of Bars 3 ☐ Snow Fence
Extra Height N

Bearing Type Quantity:

- ☐ Disk ☐ Elastomeric
☐ Pot ☐ Rocker
☐ Roller ☐ Sliding Plate

Other:

- ☐ Pin Quantity
☐ Pin and Link Quantity

Fatigue Prone Detail:

- ☐ Narrow Cover Plate - Sq End Welded
☐ Narrow Cover Plate - Sq End w/o Weld
☐ Wide Cover Plate - Sq End Welded
☐ Wide Cover Plate - Sq End w/o Weld
☐ Lateral Connection Plate - Welded
- ☐ Narrow Cover Plate - Tapered End Welded
☐ Narrow Cover Plate - Tapered End w/o Weld
☐ Longitudinal Stiffener - Welded with Radius
☐ Longitudinal Stiffener - Welded w/o Radius
☐ Hoan Detail

Substructure

- ☐ Pier Collars
☐ Abutment Collars
☐ Wood Piles
☐ Steel Piles
☐ Blocked Bridge

Retaining Wall Type:

Other

- Confined Space
☐ Bridge Lighting
☒ Cat Walk
☒ Navigational Lighting
☐ Signs Attached

General Notes

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Highway Bridge Inspection Report

Bridge Preservation

Bridge #: 1558
Bridge Name: VETERANS REMEMBRANCE
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
Region: 04 - Eastern

Town1: Bangor
Town2: Brewer
Maintainer: 01 - State Highway Agency
Co-Maintainer: N Not applicable

Deck

NBI Deck Information:

Deck Type 1 - Concrete Cast-in-Place
Deck Protection 0 - None
Membrane Type 9 - Other

Wearing Surface:

Type 6 - Bituminous
Last Date 2010
Lifespan (Yrs) 25
Next Date Est. 2035
Mill & Fill Date

Common Preservation

Paint Information:

Type
Last Date
Lifespan (Yrs)
Next Date Est. 0

Anodes:

☐ Installed
☐ Detached
☐ Replace

Superstructure

Beam Ends Paint:

Last Date
Next Date Est.

Bearings Paint:

Last Date
Next Date Est. 4

Bearings Lubrication:

Last Date
Next Date Est.

Beam Ends Fluid Film:

Last Date
Next Date Est.

Bearings Fluid Film:

Last Date
Next Date Est.

Treatment:

☐ Core 10
☐ Galvanized
☐ Metalized

Concrete-Silane:

Last Date
Next Date Est.

Washing:

☒ Required
☐ UBIT

Concrete-Linseed

Last Date
Next Date Est.
☒ Alkali-Silica reactivity

Substructure

General Notes

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Highway Bridge Inspection Report

Critical Finding Form

Critical Finding History

Bridge #: 1558
Bridge Name: VETERANS REMEMBRANCE
Owner: 01 - State Highway Agency
Co-Owner: N Not applicable
CF on NSTM Member ?

Date of Discovery

Bridge Operational Status Due to CF(s)

General Cause of CF(s)

Detailed Description of Critical Finding

If "Other" Selected, Please Explain

Immediate Action(s)
Taken to Address Critical Finding?

Conclusion

Is the Critical Finding Resolved ?

Date Resolved

Which NBI general condition rating is affected ?

Detail the response type, resolution, timelines and long term plan for the bridge

Date (or anticipated date) of Permanent Resolution

Critical Finding Reference

FHWA criteria for reporting Critical Findings

FHWA shall be notified within 24 hours of any critical finding and the activities taken, underway, or planned to resolve or monitor the critical finding. Update FHWA regularly or as requested on the status of each critical finding until it is resolved. Monthly make available the information to provide a written report to FHWA with a summary of the status of the resolutions for each critical finding identified within that month or unresolved from previous months.

Maine DOT Critical Finding notification procedure

The following procedures are to be used when a critical inspection finding is reported by the Bridge Inspector, Bridge Maintenance Manager, or other source when the Deck, Superstructure, or Substructure or Culvert having a NBI rating of 2 or less.

1. The Bridge Inspector or Bridge Manager shall report any finding that may be of a critical nature to their immediate supervisor, the Assistant Bridge Maintenance Engineer, and the Bridge Maintenance Engineer.
2. The Assistant Bridge Maintenance Engineer or the Bridge Maintenance Engineer will assess the finding and take the appropriate action.
3. If the action requires restricting or closing the bridge, the following will be notified:

- Director of Maintenance and Operations
- Division Engineer
- Permit Section
- Federal Highway Bridge Engineer

1. If the bridge is not under State jurisdiction, the bridge owner will be notified by the Bridge Inspector, Bridge Maintenance Manager, Assistant Bridge Maintenance Engineer, or the Bridge Maintenance Engineer by telephone or in writing, depending on the urgency.
2. Follow-up on action taken by the bridge owner will be made depending on the seriousness of the findings as determined by the Assistant Bridge Maintenance Engineer or the Bridge Maintenance Engineer.
3. Bridges under State jurisdiction will be restricted and/or repaired through the direction of the Assistant Bridge Maintenance Engineer.
4. Reports of deficiencies (critical or otherwise) from other sources will be handled in the same manner.

Note: A critical finding is a major defect in the superstructure or substructure which, if not repaired immediately, may require the closing or partial closing of a bridge, and could lead to the total collapse of the structure. Repairs should be completed within a few days.