Highway Bridge Inspection Report

COLD BROOK ROAD/I-95 COLD BROOK ROAD over I-95



Asset Code: 5970

Inspection Date: 12/18/2017

Inspected By: Scott Harris

Inspection Type(s): Routine

National Bridge Inventory

Status: 0 - ND Bridge Name: COLD BROOK ROAD/I-95 Sufficiency Rating: 62.0

Inspections

(90) INSPECTION DATE & (91) DESIGNATED INSPECTION FREQUENCY 24 12/18/2017

(92) CRITICAL FEATURE INSPECTION & (93) CFI DATE

 (92A) FRACTURE CRITICAL DETAIL
 N

 (92B) UNDERWATER INSPECTION
 N

 (92C) OTHER SPECIAL INSPECTION
 N

Identification

 (1) STATE CODE
 231 - Maine

 (8) STRUCTURE NUMBER
 5970

(5) INVENTORY ROUTE

(5A) RECORD TYPE

1: Route carried "on" the structure
(5B) ROUTE SIGNING PREFIX

4 - COUNTY HIGHWAY

(5C) DESIGNATED LEVEL OF SERVICE 0 - None (5) INVENTORY ROUTE 0

(5) INVENTORY ROUTE 0 - NOT APPLICABLE

 (2) HIGHWAY AGENCY DISTRICT
 04 - Eastern

 (3) COUNTY CODE
 019 Penobscot

 (4) PLACE CODE
 30795

 (6) FEATURES INTERSECTED
 I-95

(7) FACILITY CARRIED COLD BROOK ROAD
(9) LOCATION I-95 INTERCHANGE #44

(11) MILEPOINT 2.090

(12) BASE HIGHWAY NETWORK Inventory Route is not on the Base Network

(13) LRS INVENTORY ROUTE, SUBROUTE (13A) LRS INVENTORY ROUTE

 (13A) LRS INVENTORY ROUTE
 0001900553

 (13B) SUBROUTE NUMBER
 00

 (16) LATITUDE
 44.77368

 (17) LONGITUDE
 -68.85938

 (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 3 - Steel

(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
 5

 (46) NUMBER OF APPROACH SPANS
 0

(107) DECK STRUCTURE TYPE 1 - Concrete Cast-in-Place

(108) WEARING SURFACE/PROTECTIVE SYSTEMS

(108A) WEARING SURFACE 1 - Monolithic Concrete (concurrently placed with structural deck)

 (108B) DECK MEMBRANE
 0 - None

 (108C) DECK PROTECTION
 0 - None

Age of Service

(27) YEAR BUILT 1962 (106) YEAR RECONSTRUCTED -4

(42) TYPE OF SERVICE

(42A) TYPE OF SERVICE ON BRIDGE 1 - Highway

(42B) TYPE OF SERVICE UNDER BRIDGE 1 - Highway, with or w/out pedestrian

(28) LANES

 (28A) LANES ON THE STRUCTURE
 02

 (28B) LANES UNDER THE STRUCTURE
 04

 (29) AVERAGE DAILY TRAFFIC
 9885

 (30) YEAR OF AVERAGE DAILY TRAFFIC
 2016

 (109) AVERAGE DAILY TRUCK TRAFFIC
 5

 (19) BYPASS DETOUR LENGTH
 6

Geometric Data

(49) STRUCTURE LENGTH (ft.) 325 (50) CURB/SIDEWALK WIDTHS (50A) LEFT CURB SIDEWALK (ft.) 1.5 (50B) RIGHT CURB SIDEWALK (ft.) 1.5 (51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 30 (52) DECK WIDTH, OUT-TO-OUT (ft.) 35.5 (32) APPROACH ROADWAY WIDTH (ft.) 40 (33) BRIDGE MEDIAN 0 - No median (34) SKEW (deg.) 0 (35) STRUCTURE FLARED 0 - No flare (10) INV RTE, MIN VERT CLEARANCE (ft.) 328.05 (47) TOTAL HORIZONTAL CLEARANCE (ft.) 30 (53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 327.76 (54) MIN VERTICAL UNDERCLEARANCE (54A) REFERENCE FEATURE H - Highway beneath structure (54B) MIN VERTICAL UNDERCLEARENCE (ft.) 16.75 (55) MIN LATERAL UNDER CLEARANCE RIGHT (55A) REFERENCE FEATURE H - Highway beneath structure (55B) MIN LATERAL UNDER CLEARANCE RIGHT (ft.) 11.15 (56) MIN LATERAL UNDER CLEARANCE (ft.) 6.9 Classification (112) NBIS BRIDGE LENGTH Yes (104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE 0 - Structure/Route is NOT on NHS (26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE 07 - Rural - Major Collector (100) STRAHNET HIGHWAY DESIGNATION Not a STRAHNET route (101) PARALLEL STRUCTURE DESIGNATION N - No parallel structure (102) DIRECTION OF TRAFFIC 2-way traffic (103) TEMP STRUCTURE (105) FEDERAL LANDS HIGHWAYS Not Applicable (110) DESIGNATED NATIONAL NETWORK Inventory route not on 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 7 - Good Condition (some minor problems) (59) SUPERSTRUCTURE 6 - Satisfactory Condition (minor deterioration) (60) SUBSTRUCTURE 4 - Poor Condition (advanced deterioration) (61) CHANNEL & CHANNEL PROTECTION N - Not Applicable (62) CULVERT N - Not Applicable Load Rating and Posting (31) DESIGN LOAD 5 - HS 20 (63) METHOD USED TO DETERMINE OPERATING RATING 8 - Load and Resistance Factor (64) OPERATING RATING 1.97 (65) METHOD USED TO DETERMINE INVENTORY RATING 8 - Load and Resistance Factor (66) INVENTORY RATING 1.52 (70) BRIDGE POSTING 5 - Equal to or above legal (41) STRUCTURE OPEN/POSTED/CLOSED A - Open **Appraisal** (67) STRUCTURAL EVALUATION 5 (68) DECK GEOMETRY 4 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL (71) WATERWAY ADEQUACY N - Not Applicable (72) APPROACH ROADWAY ALIGNMENT 8 - Equal to present desirable criteria (36) TRAFFIC SAFETY FEATURE 36A) BRIDGE RAILINGS: 1 - Meets acceptable standards 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 N - Not over waterway

Proposed Improvements

68.0

(48) LENGTH OF MAXIMUM SPAN (ft.)

(75A) TYPE OF WORK PROPOSED (75B) WORK DONE BY

(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)

(94) BRIDGE IMPROVEMENT COST (SK)

(95) ROADWAY IMPROVEMENT COST (SK)

(96) TOTAL PROJECT COST

(97) YEAR OF IMPROVEMENT COST ESTIMATE

(114) FUTURE ADT (115) YEAR OF FUTURE ADT 13839 2036

	Navigation Data
(38) NAVIGATION CONTROL	N - Not applicable, no waterway

(55) 111115/1115/11151	
(111) PIER OR ABUTMENT PROTECTION	
(39) NAV VERT CLEARANCE	0
(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE	0
(40) NAV HORIZONTAL CLEARANCE	0

Inspection Notes

Structure Number:	5970		Town: Hampden
Structure Name: 0	COLD BROOK ROAD/I-95		
Structure Notes Five span steel painted	l girders. Concrete deck, piers, ab	utments, wings and	d wearing surface.
Wearing Surface Concrete wearing surfa	nce is in satisfactory condition with	no issues noted.	
			, s of spalled or delaminated concrete over the travel lanes. rai ht poles are attached to the bridge.
Superstructure Painted steel girders had measurable section los	ave 15% paint distress to the exters noted.	NBI Item 59: 6 fior girders and the	s bottom flanges of the interior girders and girder ends. No
	equired blocking, see photos. Sev		l ur pier caps have serious section loss under the west exterions s have been rehabbed, but several have large areas of
Culvert		NBI Item 62: N	N

Channel	NBI Item 61:	N
Other		
Special Inspection		
Monitoring		
Pontis Notes		

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

Highway Bridge Inspection Report

Pictures



PHOTO 1

Description Roadway looking north



PHOTO 2

Description south joint

Inspection Date: 12/18/2017 Facility Carried: COLD BROOK ROAD

Highway Bridge Inspection Report

Pictures



РНОТО 3

Description typical of pier joint



PHOTO 4

Description Wearing surface view

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

Highway Bridge Inspection Report

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PHOTO 5

Description typical of pier joint



РНОТО 6

typical of pier joint Description

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РНОТО 7

Description west side view



РНОТО 8

Description north abutment exterior beam end

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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РНОТО 9

Description paint failures westgirder



PHOTO 10

Description north abutment

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Highway Bridge Inspection Report

Pictures



PHOTO 11

Description north abutment slope pavement



PHOTO 12

Description north abutment beam end

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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PHOTO 13

Description paint failures north abutment beam ends



PHOTO 14

blocking at NW pier Description

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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PHOTO 15 Description

north span view



PHOTO 16

north pier north face Description

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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PHOTO 17 Description

injured hawk



PHOTO 18

Description injured hawk

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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Pictures



PHOTO 19

Description Spalling nw pier cap



PHOTO 20

Description looking south

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

Highway Bridge Inspection Report

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PHOTO 21

Description Blocking at nw pier cap



PHOTO 22

Description NW pier cap

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Highway Bridge Inspection Report

Pictures



PHOTO 23

Description west side view



PHOTO 24

Description Deteriorated south pier cap

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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PHOTO 25

Typical beam end piers Description



PHOTO 26

Description south end view

COLD BROOK ROAD Inspection Date: 12/18/2017 **Facility Carried:**

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PHOTO 27

Description I-95 NB span



PHOTO 28

Description looking west

COLD BROOK ROAD **Facility Carried:** Inspection Date: 12/18/2017

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PHOTO 29

Description east abutment