

NOTE: BR 14 is overflow flow BR. 15
ONLY 1 bridge modeled in
PREMA STUDY.

PREDISEIGN-PRESURVEY REPORT

2nd Bridge must be added to
CORRECTED ERRORTURE MODEL.

County HALIFAX

456 12.1.1
Project Number ~~B-5657~~ ?
TIP Number B-5657 ?
Let Date _____

Bridge Number 410014
Road Number SR1001 JUSTICE BRANCH Rd.
Stream BEAVERDAM SWAMP

Type Of Request: POC Force Account TIP DES/DLO
Date 8-9-16 Name ECA/JL Assigned To PAT
Checked By _____

Prior Survey Date _____ (attach copy of prior survey)

Study By Scour Section _____

Flood Zone AB Detail Study LIMITED Date 7/3/2017 (attach copy of flood map) PATHEL 3899
B.M. Info SER BRIDGE 15 SER BR. 15

Quad Map SER BRIDGE 15 From _____
Q25 _____ Q50 _____ Q100 _____ Method _____

OVERFLOW FOR BR. 15

EXISTING BRIDGE INFORMATION

Location 0.6 mi. N. Jct. SR1206

Average Daily Traffic 460 2012

Length 52' Bed- To Crown 9' Water Depth 3'

Type Structure TIMBER PLANK / TIMBER JOISTS / TIMBER CAP / TIMBER PILES

Type Spans 17'9", 17'0", 17'5"

Upstream Structure _____

Location SER BR. 15

Bed- To Crown _____ Prior Survey _____

Downstream Structure _____

Location _____

Bed- To Crown _____ Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

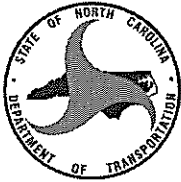
Trout Stream _____ Anadromous Fish _____ Primary Nursery Area _____

High Quality Waters SER BR. 15 Nutrient Sensitive Waters _____

Near Water Supply Intake _____ CAMA County _____

Stream Classification _____

DENR River Basin Info. _____



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION:

Structure Safety Report

Routine Element Inspection

COUNTY: HALIFAX STRUCTURE NUMBER: 410014 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1001 MILE POST:

LOCATION: 0.6 MI.N.JCT.SR1206

FEATURE INTERSECTED: BEAVERDAM SWAMP

LATITUDE: 36° 12' 49.8" LONGITUDE: 77° 40' 27.2"

SUPERSTRUCTURE: TIMBER FLOOR ON TIMBER JOIST

SUBSTRUCTURE: EBTS&IBTS:TIMBER CAPS/TIMBER PILES@VAR.CTS.

SPANS: 1@17'9,1@17',1@17'5

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 08/19/2015

POSTED SV: 19 POSTED TTST: 28

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING NORTH

Sign noticed issued for		Number Required
<u>NO</u>	<u>WEIGHT LIMIT</u>	<u>0</u>
<u>NO</u>	<u>DELINEATORS</u>	<u>0</u>
<u>NO</u>	<u>NARROW BRIDGE</u>	<u>0</u>
<u>NO</u>	<u>ONE LANE BRIDGE</u>	<u>0</u>
<u>NO</u>	<u>LOW CLEARANCE</u>	<u>0</u>

INSPECTED BY Z.S. DUNLOW	SIGNATURE <i>Z.S. Dunlow</i>	ASSISTED BY G.L. HARRINGTON
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BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 04/18/2016

COUNTY : HALIFAX	DIVISION : 4	DISTRICT : 1	STRUCTURE NUMBER : 410014	LENGTH : 52 FEET
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ROUTE CARRIED : SR1001	FEATURE INTERSECTED : BEAVERDAM SWAMP
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LOCATED : 0.6 MI.N.JCT.SR1206	BRIDGE NAME :	CITY :
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FUNC. CLASS : 08	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 460 2012	RAIL TYPE : LT 233 RT 233
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BUILT : 1952	BY : BMU	PROJ : 5.3051	FED.AID PROJ :	DESIGN LOAD : Unknown
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REHAB :	BY : BMU	PROJ : 5.3051	ALIGNMENT : TAN.	SKEW : 90	LANES : ON 2 UNDER 0
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NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 9 FT	WATER DEPTH : 3 FT
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SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOIST
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SUBSTRUCTURE : EBTS & INT.BTS:TIMBER CAPS ON TIMBER PILES @ VAR. CTS.
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SPANS : 1@17'9", 1@17', 1@17'5"

BEAMS OR GIRDERS : SPN.1&3:23 LNS;SPN.2:22 LNS.6" X 12" TIMBER JOISTS @ VAR. CENTERS

FLOOR : 4"X8" TIM, 3.5" AWS	ENCROACHMENT :	DECK (OUT TO OUT) : 24.083 FT
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CLEAR ROADWAY : 23.083 FT	BETWEEN RAILS : 23.5 FT	SIDEWALK OR CURB : LT .2085 FT RT .2085 FT
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VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-12	OPE.RTG. : HS-17	CONTR.MEMBER : Joist	POSTED : SV 19	TTST 28	DATE 08/19/2011
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SYSTEM : Secondary S.R. Route	GREEN LINE ROUTE : N
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UNDER ROUTES AND CLEARANCES

REMARKS :

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 410014 County: HALIFAX Date: By: ZSD

Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	9.3	END BENT 1	0	9.4	END BENT 1
0.1	8.2	WSWE			
18	11.7	BENT 1	18	12	BENT 1
22	11	GROUND			
35	9.4	BENT 2	35	9.1	BENT 2
41	8.5	WSWE			
45	6	GROUND			
52	6.3	END BENT 2	52	7.8	END BENT 2

Bridge: 410014

County HALIFAX

Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

