

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

TIP No.: **B-5672** WBS No.: **45627.1.1** Field Scoping Meeting Date: **March 21, 2016**
 Division: **4** Location: **On-site**
 Route (US/NC/SR): **SR 1310** County: **HALIFAX**
 Project Description: **Bridge No. 134 over Bear Swamp on SR 1310 (Airlie Rd)**
 Tier: **SUB-REGIONAL** Funding: **HFB**
 Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Wade Harper	252-237-6164	waharper@ncdot.gov
Division Environmental Officer	Chad Coggins	252-237-6164	ccoggins@ncdot.gov
Resident Engineer	Bobby Liverman	252-459-2129	bliverman@ncdot.gov
Division Bridge Maint. Engineer	Randy Davis	252-296-3552	radavis@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6734	jlindsey@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
USACE	Tom Steffens	910-251-4615	Thomas.A.Steffens@usace.army.mil
NCDEQ-DWR	Rob Ridings (did not attend)	919-707-8786	Rob.ridings@ncdenr.gov
NCWRC	Travis Wilson	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan	919-856-4520	Gary_jordan@fws.gov
Locations and Surveys	Brent Bass	252-234-1118	Bwbass@ncdot.gov
Location and Surveys	Paul Woodard	252-234-1118	pwoodard@ncdot.gov
District Engineer	Ronnie Keeter	252-583-4230	rkeeter@ncdot.gov

Existing Features

Feature Bridged: **410134 over Bear Swamp on SR 1310 (Airlie Rd)**

Ex. Bridge Clear Deck Width: **21.5 (Ft.)**

Roadway width: **21.083 (Ft.)**

(Bridge / Culvert) Length: **91 (Ft.)**

Deck Width (Out To Out): **22.17 (Ft.)**

Water Depth: **7 (Ft.)**

Height Bed-To-Crown: **14 (Ft.)**

Year Built: **1952**

Posted: **SV 20**

TTST: **29**

Superstructure: **TIMBER
FLOOR ON TIMBER JOIST&I-
BEAMS**

Abutment: **TIMBER
CAP/TIMBER PILES @
VAR.CTS.**

Pier Type: **TIMBER
CAP/TIMBER PILES @
VAR.CTS.**

Temp. Shored: **No**

Historic High Water (Elev. To The Existing Structure): **(Ft)**

PRI: **27.6**

DP: **2.5**

SR: **52.19**

School Bussing crossings per day: **4 buses/8 trips**

Posted Speed Limit Vicinity: **55 mph (statutory)**

Detour **Off-Site** ☒ **Stage Construction** ☐ **New Alignment** ☐ **On-site** ☐

If Off-Site, Description Of Detour Route: **SR 1300 to NC48**

Approximate Length Of Detour? **5.4 miles**

Improvements Needed To Road(s) On Detour? **No**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

Improvements Needed To Bridges On Detour? **No**

Are future plans for upgrading this roadway either at or in the vicinity of this project? **No**

Are Bridges On Detour Currently Programmed? **No**

Are There EMS Or Business Access Issues? **No**

Are There Any Railroad Crossings On Detour? **No**

Should Work Zone Pedestrian Access Be Maintained During Construction? **No**

Overhead Utility Lines ~~In Conflict~~

Power Transmission Lines ~~In Conflict~~

Telephone ~~In Conflict~~

Cable Lines ~~In Conflict~~

Fiber Optic ~~In Conflict~~

Water ~~In Conflict~~

Sewer ~~In Conflict~~

Natural Gas ~~In Conflict~~

Other ~~In Conflict~~

Is There Any Future Utility Construction Anticipated In The Project Area: **No**

Is A FEMA Buy-Out Property Being Impacted: **No**

Structure No: 410134

Environmental

Wetlands At Site: **Yes** Comments:

Endangered Species In County: **Red-cockaded woodpecker; Dwarf wedgemussel; Tar River spiny mussel**

T&E species effect: **No effect for all**

Trout County: **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Permits discussion:

Water Quality Classification: **C; NSW**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Tar-Pamlico**

Riparian Buffer Rules: **Yes**

Is The Project Site In Or Near Any Of The Following:

National Forest: **No**

Wildlife Refuge: **No**

State, County, Or Local Park: **No**

Wild And Scenic River: **No**

Airport: **No**

Recreation or Power Generation: **No**

Water Supply Reservoir: **No**

Nutrient Sensitive Waters: **Yes**

Public Use Boat Ramp: **No**

Cemeteries: **No**

VAD/Farmland Protection:

Game Lands: **No**

Known Or Potential Historic Properties In The Area:

No

Architecture: No Survey Required

Archaeology: No Survey Required

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Impacts to a Church, Community Center, Or Other Public Facility? **No**

Is this a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No**

Comments:

Geotechnical

Are There Any Historical and/or Vibration Sensitive Structures Near By? -----

Comments:

Are There Any Known Landfills and/or Geo-environmental Hazard Sites at/or Within Close Proximity To The Project Site? -----

Comments:

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells? -----

Comments:

Possible Foundation Type:

End Bents:

Interior Bents:

Hydraulics

FEMA Approval? **Yes** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **Normal End Bent Protection**
Are Banks Stable? **Yes** Is Protection Needed? **Normal End Bent Protection**
Appreciable Amount Of Large Debris? **No**
Placement Of Bents In The Water Be Allowed: **Yes** Where: **Not in center 1/3 of channel**
Structure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **125'** Min. Number Of Spans: **3** Span Arrangement: **40' – 60' – 25'**
Waive offset: **No** EB Cap: **2'-6"** Skewed: **90**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒ Stage Construction ☐ New Alignment ☐ On-site ☐

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☒

Minimum Criteria Checklist ☐

ADT: **630 per SIR** NHS: **No** Tier: **SUB-REGIONAL** Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **30' OTO**

Roadway lane width: **10'** with **3'** shoulders

Extension of Paved shoulders: **N/A**

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**

Min. Pavement Surface Course: **3"**

Existing Roadway: **19'**

Pavement Marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Modified**

Truck Percentage: **6 % per BIR**

Reasonable Safe Speed per SIR: **55 mph**

Liquidated damages: will be imposed after **150** days of closure/construction. Amt: \$ **600** per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Concrete**

Salvageable materials: **H-piles**

Contact Person/number: Spurgeon Ricks – **252-583-4260**

Deliver to: **Halifax Bridge Maint. Yard – 14065 Hwy. 903, Halifax, NC 27839 - DBT to deliver, NCDOT to unload**

Removal of previous structure remnant abutments/piers: **None**

Sequencing priority in construction? **None**

Comments: **No vertical curve on bridge. Stripe to match existing lane widths.**