

# NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

## FIELD SCOPING MEETING WORKSHEET

### Design Build Process

TIP No.: **B-5657**      WBS No.: **45612.1.1**      Field Scoping Meeting Date: **Feb. 17, 2016**  
 Division: **4**      Location: **On-site**  
 Route (US/NC/SR): **SR 1001**      County: **HALIFAX**  
 Project Description: **Bridge No.15 over Beaverdam Swamp on SR 1001** (Justice Branch Rd)  
 Tier: **SUB-REGIONAL**      Funding: **STI**  
 Municipality: **No**

### Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Wade Harper	252-237-6164	<a href="mailto:waharper@ncdot.gov">waharper@ncdot.gov</a>
Division Environmental Officer	Chad Coggins	252-237-6164	<a href="mailto:ccoggins@ncdot.gov">ccoggins@ncdot.gov</a>
Asst. Resident Engineer	Rob Pate	252-459-2129	<a href="mailto:repate@ncdot.gov">repate@ncdot.gov</a>
District Engineer	Ronnie Keeter	252-583-4230	<a href="mailto:rkeeter@ncdot.gov">rkeeter@ncdot.gov</a>
PPU	Pam Williams	919-707-6608	<a href="mailto:prwilliams@ncdot.gov">prwilliams@ncdot.gov</a>
PPU	Jamie Lancaster	919-707-6620	<a href="mailto:jlancaster@ncdot.gov">jlancaster@ncdot.gov</a>
Hydraulics Engineer	Jerry Lindsey	919-707-6734	<a href="mailto:jlindsey@ncdot.gov">jlindsey@ncdot.gov</a>
Hydraulics Engineer	Andy Jordan	919-707-6729	<a href="mailto:pajordan@ncdot.gov">pajordan@ncdot.gov</a>
USACE	Tom Steffens (did not attend)	910-251-4615	<a href="mailto:Thomas.A.Steffens@usace.army.mil">Thomas.A.Steffens@usace.army.mil</a>
NCDEQ-DWR	Rob Ridings (did not attend)	919-707-8786	<a href="mailto:Rob.ridings@ncdenr.gov">Rob.ridings@ncdenr.gov</a>
NCWRC	Travis Wilson (did not attend)	919-707-0370	<a href="mailto:travis.wilson@ncwildlife.org">travis.wilson@ncwildlife.org</a>
USFWS	Gary Jordan (did not attend)	919-856-4520	<a href="mailto:Gary_jordan@fws.gov">Gary_jordan@fws.gov</a>
Locations and Surveys	Derek Bradner	336-334-5085	<a href="mailto:jbradner@ncdot.gov">jbradner@ncdot.gov</a>
NES- BSG	Jared Gray	919-707-6120	<a href="mailto:jgray@ncdot.gov">jgray@ncdot.gov</a>
Locations and Surveys	G. Paul Woodard	252-234-1118	<a href="mailto:pwoodard@ncdot.gov">pwoodard@ncdot.gov</a>
Asst. District Engineer	Franz Enders	252-583-4230	<a href="mailto:fenders@ncdot.gov">fenders@ncdot.gov</a>
Asst. District Engineer	Kristin Barnes	252-583-4230	<a href="mailto:kwbarnes@ncdot.gov">kwbarnes@ncdot.gov</a>
NES-Biological Surveys	Tim Bassette	919-707-6104	<a href="mailto:tpbassette@ncdot.gov">tpbassette@ncdot.gov</a>

## **Existing Features**

Feature Bridged: **410015 over Beaverdam Swamp on SR 1001 (Justice Branch Rd)**

Ex. Bridge Clear Deck Width: **23.5 (Ft.)**

Roadway width: **23.08 (Ft.)**

(Bridge / Culvert) Length: **52 (Ft.)**

Deck Width (Out To Out): **24.08 (Ft.)**

Water Depth: **4 (Ft.)**

Height Bed-To-Crown: **9 (Ft.)**

Year Built: **1952**

Posted: **SV 19**

TTST: **27**

Superstructure: **TIMBER  
DECK/TIMBER JOIST**

Abutment: **TIMBER  
CAPS/TIMBER PILES**

Pier Type: **:TIMBER  
CAPS/TIMBER PILES**

Temp. Shored: **No**

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

PRI: **28.89**

DP: **2.5**

SR: **54.98**

School Bussing crossings per day: **2 buses/ 4 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 1204 to NC561 to SR 1206**

Approximate Length Of Detour?

**9 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? **Yes, widening.  
No set time for widening.**

Are Bridges On Detour Currently Programmed?

**No**

Are There EMS Or Business Access Issues?

**Farming**

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 - Possible

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**

## **Environmental**

Wetlands At Site: **Yes**                      Comments:

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

T&E species effect: **No effect on 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; Sw, 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:                      **No**

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: **Yes**

Comments:    **Halifax CTP recommends 4 foot paved shoulder for bikes**

## **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 Limited Detail**  
(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? **Low**

Placement Of Bents In The Water Be Allowed: **Yes**

Where: **Best Location – No restrictions**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **70'**

Min. Number Of Spans: **2**

Span Arrangement: **2@35**

Waive offset: **Yes**

EB Cap: **2'-6"**

Skewed: **90**

**Model with 4100014. May need to raise grade approximately 1'. Cut bents off at floodplain elevation**

## 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: **490 per SIR**

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Minor Collector**

Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**

Roadway lane width: **12'** with **6'** shoulders, including **4' paved shoulders**

Extension of Paved shoulders: End of construction limits with 8:1 taper

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

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

Existing Roadway: **20'**

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: **50 mph**

Liquidated damages: will be imposed after **180** days of closure/construction for both bridges

Amt: \$ **500** per day for both bridges

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Concrete**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

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

Sequencing priority in construction? **Construct 14 and 15 concurrently**

Comments: **Provide 55 mph vertical curve on approach. Stripe to match existing lane widths. Pave between bridges 14 and 15.**