

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.14 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 | waharper@ncdot.gov |
| Division Environmental Officer | Chad Coggins | 252-237-6164 | ccoggins@ncdot.gov |
| Asst. Resident Engineer | Rob Pate | 252-459-2129 | repate@ncdot.gov |
| District Engineer | Ronnie Keeter | 252-583-4230 | rkeeter@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 (did not attend) | 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 (did not attend) | 919-707-0370 | travis.wilson@ncwildlife.org |
| USFWS | Gary Jordan (did not attend) | 919-856-4520 | Gary_jordan@fws.gov |
| Locations and Surveys | Derek Bradner | 336-334-5085 | jbradner@ncdot.gov |
| NES- BSG | Jared Gray | 919-707-6120 | jgray@ncdot.gov |
| Locations and Surveys | G. Paul Woodard | 252-234-1118 | pwoodard@ncdot.gov |
| Asst. District Engineer | Franz Enders | 252-583-4230 | fenders@ncdot.gov |
| Asst. District Engineer | Kristin Barnes | 252-583-4230 | kwbarnes@ncdot.gov |
| NES-Biological Surveys | Tim Bassette | 919-707-6104 | tpbassette@ncdot.gov |

Existing Features

Feature Bridged: **410014 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: **3 (Ft.)**

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

Year Built: **1952**

Posted: **SV 19**

TTST: **28**

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: **28.06**

DP: **2.5**

SR: **56.83**

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.
Not set time for the 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 spiny mussel**

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: **80'**

Min. Number Of Spans: **2**

Span Arrangement: **2@40**

Waive offset: **Yes**

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

Skewed: **90**

Model with 4100015. 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 **3'-5" 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 & 15 concurrently**

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