

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION**  
**FIELD SCOPING MEETING WORKSHEET**  
**Design Build Process**

TIP No.: **B-5667**      WBS No.: **45622.1.1**      Field Scoping Meeting Date: **Feb. 17, 2016**  
Division: **4**      Location: **On-site**  
Route (US/NC/SR): **SR 2159**      County: **JOHNSTON**  
Project Description: **Bridge No. 231 over Little Buffalo Creek on SR 2159 (Bay Valley Rd)**  
Tier: **SUB-REGIONAL**      Funding: **HFB**  
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>                             |
| Div. 4 Asst. Res. Engineer      | Rob Pate                          | 252-459-2129 | <a href="mailto:repate@ncdot.gov">repate@ncdot.gov</a>                                 |
| District Engineer               | Jiles Harrell                     | 919-739-5300 | <a href="mailto:jpharrell@ncdot.gov">jpharrell@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<br>(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<br>(did not attend)   | 919-707-8786 | <a href="mailto:Rob.ridings@ncdenr.gov">Rob.ridings@ncdenr.gov</a>                     |
| NCWRC                           | Travis Wilson<br>(did not attend) | 919-707-0370 | <a href="mailto:travis.wilson@ncwildlife.org">travis.wilson@ncwildlife.org</a>         |
| USFWS                           | Gary Jordan<br>(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>                             |
| Locations and Surveys           | Paul Woodard                      | 252-234-1118 | <a href="mailto:pwoodard@ncdot.gov">pwoodard@ncdot.gov</a>                             |
|                                 |                                   |              |                                                                                        |
|                                 |                                   |              |                                                                                        |

## **Existing Features**

Feature Bridged: **500231 over Little Buffalo Creek on SR 2159 (Bay Valley Rd)**

Ex. Bridge Clear Deck Width: **24.917 (Ft.)**

Roadway width: **24 (Ft.)**

(Bridge / Culvert) Length: **60 (Ft.)**

Deck Width (Out To Out): **25.25 (Ft.)**

Water Depth: **6 (Ft.)**

Height Bed-To-Crown: **11 (Ft.)**

Year Built: **1972**

Posted: **SV 23**

TTST: **26**

Superstructure: **PPC  
CHANNELS (BMD-13)**

Abutment: **PPC CAP/TIM.PILES  
@ 5'9 CTS.**

Pier Type: **PPC CAP/TIM.PILES  
@ 5'9 CTS.**

Temp. Shored: **No**

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

PRI: **37.21**

DP: **0.5**

SR: **36.4**

School Bussing crossings per day: **6 buses/11 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 2110 to NC 222 to SR 2158

Approximate Length Of Detour?

**1.6 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 – **north side**

Power Transmission Lines

~~In Conflict~~

Telephone

In Conflict – **north side**

Cable Lines

~~In Conflict~~

Fiber Optic

~~In Conflict~~

Water

In Conflict – **north side**

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, Michaux's sumac

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; NSW**                      303d:                      **No**

Coast Guard Permit? **No**                      Drainage Basin: **Neuse**                      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: **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; Limited** (MOA ) State Stormwater Permit? **No**  
Is There Unusual Scour Potential? **No** Is Protection Needed? **Std. End Bent Protection**  
Are Banks Stable? **Yes** Is Protection Needed? **Std. End Bent Protection**  
Appreciable Amount Of Large Debris? **Low**  
Placement Of Bents In The Water Be Allowed: **Yes** Where: **Best Location**  
Structure Type: **Bridge** If Bridge: **CS** If girder; why?  
Length Of Structure: **90'** Min. Number Of Spans: **2** Span Arrangement: **40'-50'**  
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: **150 per SIR** NHS: **No** Tier: **SUB-REGIONAL** Func. Class: **Local**  
Bridge Min. Clear Deck Width Recommended by Div.: **30' OTO**  
Roadway lane width:   **11**   ' 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: **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: **40 mph**  
Liquidated damages: will be imposed after   **120**   days of closure/construction. Amt: \$   **500**   per day  
CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Concrete**  
Salvageable materials: **No**  
Contact Person/number:  
Deliver to:  
Removal of previous structure remnant abutments/piers: **None visible**  
Sequencing priority in construction? **1st Priority.**  
Comments: **Relocate driveway-provide full guardrail. Stripe to match existing lane widths.**