

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

TIP No.: **B-4562** WBS No.: **38410.1.2** Field Scoping Meeting Date: **March 21, 2016**
 Division: **4** Location: **On-site**
 Route (US/NC/SR): **SR 2143** County: **JOHNSTON**
 Project Description: **Bridge No. 216 over Little Buffalo Creek on SR 2143 (Old Route 22)**
 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
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 (did not attend)	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan	919-856-4520	Gary_jordan@fws.gov
NES- BSG	Jared Gray	919-707-6120	jgray@ncdot.gov

Existing Features

Feature Bridged: **500216 over Little Buffalo Creek on SR 2143 (Old Route 22)**

Ex. Bridge Clear Deck Width: **25.583 (Ft.)**

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

(Bridge / Culvert) Length: **86 (Ft.)**

Deck Width (Out To Out): **25.833 (Ft.)**

Water Depth: **2 (Ft.)**

Height Bed-To-Crown: **10 (Ft.)**

Year Built: **1958**

Posted: **SV 19**

TTST: **28**

Superstructure: **R.C.FLOOR ON
TIMBER JOISTS STD. BMD-10**

Abutment: **TIM.CAPS/TIM.
PILES**

Pier Type: **TIM.CAPS/TIM.
PILES**

Temp. Shored: **No**

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

PRI: **55.84**

DP: **3.5**

SR: **26.63**

School Bussing crossings per day:**11
buses/17trips**

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route:

SR 2165 to US 301 to SR 2144

Approximate Length Of Detour?

3.4 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 Yes

Cable Lines

In Conflict Yes

Fiber Optic

~~In Conflict~~

Water

In Conflict Yes

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 wookpecker, Dwarf Wedgemussel, Tar River spinymussel, Michaux's sumac**

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: **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** (MOA)

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Std. End Bent Protection**

Are Banks Stable? **No**

Is Protection Needed? **Std. End Bent Protection**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **No**

Where: **none in channel; can place 1 at edge of water on east side**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **125'**

Min. Number Of Spans: **3**

Span Arrangement: **25 – 50 - 50**

Waive offset: **No**

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

Skewed: **90**

Using 21" CS will require grade to be raised 6" to 12"

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: **900 per forecast**

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Minor Collector**

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: **21'**

Pavement Marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Modified**

Truck Percentage: **3% (2%Duals, 1%TTST)**

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

Liquidated damages: will be imposed after 180 days of closure/construction. Amt: \$ 500 per day

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**

Sequencing priority in construction? **None**

Comments: **2:1 slopes may be used; maintain Normal crown on bridge; Avoid impacts to jurisdictional streams on each side; both side ditches are jurisdictional, but not mitigatable; rip rap at a minimum to approach slab. Avoid pond in NW quadrant. Stripe to match existing lane widths.**