

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

WBS No.: **17BP.11.R.104**

Field Scoping Meeting Date: **May 5, 2014**

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR1745**

County: **WILKES**

Project Description: **Bridge No. 960317 over W.PRONG ROARING RIVER on SR 1745
(Shumate Mountain Road)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Jami Guynn	336-903-9220	jcguyenn@ncdot.gov
Division Environmental Off.	Heath Slaughter	336-903-9202	hslaughter@ncdot.gov
Division Bridge Maint. Eng.	David Wayne	336-903-9124	Dwayne@ncdot.gov
Hydraulics Engineer	Randy Henegar	919-707-6726	rhenegar@ncdot.gov
Hydraulics Engineer	Marc Shown	919-707-6751	mshown@ncdot.gov
Hydraulics Engineer	Rusty Lassiter	919-707-6732	rlassiter@ncdot.gov
TPMU	Virginia Mabry	919-707-6604	vmabry@ncdot.gov
Bridge Management	Paul Garrett	919-707-6457	pgarrett@ncdot.gov
Division Const. Engineer	Trent Beaver	336-903-9117	tbeaver@ncdot.gov
NCWRC	Marla Chambers	704-984-1070	Marla.chambers@ncwildlife.org

Existing Features

Feature Bridged: **960317 over W.PRONG ROARING RIVER on SR1745 (Shumate Mountain Road)**

Ex. Bridge Clear Deck Width: **18.92 (Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **31 (Ft.)** Deck Width (Out To Out): **20(Ft.)**

Water Depth: **2(Ft.)** Height Bed-To-Crown: **8(Ft.)**

Year Built: **1950** Posted: SV **25** TTST: **37**

Superstructure: **Timber Floor on I-Beam** Abutment: **Timber caps, posts and sills** Pier Type: **NONE**

Temp. Shored: **No**

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

PRI: **59** DP: **0** SR: **7.57** School Bussing crossings per day: **3 buses for a total of 6 crossings per day**

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

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

If Off-Site, Description Of Detour Route: **SR 1002-SR 1730**

Approximate Length Of Detour? **4.3 miles**

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

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing**

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

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

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

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

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

Overhead Utility Lines In Conflict **Yes**

Power Transmission Lines In Conflict

Telephone In Conflict **Yes**

Cable Lines In Conflict **Yes**

Fiber Optic In Conflict **Yes**

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**

Environmental

Wetlands At Site **No**

Comments:

Endangered Species In County: **Bog Turtle; Northern Long-Eared Bat**

T&E species effect: **No**

Trout County: **Yes, but not trout stream**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Permits:

Water Quality Classification: **C**

303d: **No**

Coast Guard Permit? **No** Drainage Basin: **Yadkin**

Riparian Buffer Rules: **No**

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

National Forest: **No**

Wildlife Refuge/Gamelands: **No**

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

Wild And Scenic River: **No**

Airport: **No**

Recreation Of Power Generation: **No**

Water Supply Reservoir: **No**

Nutrient Sensitive Waters: **No**

Public Use Boat Ramp: **No**

Cemeteries: **No**

VAD-Farmland Preservation: **No**

Known Or Potential Historic Properties In The Area:

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; Wilkes County Bicycle Routes- No. 5 Cabin Creek Loop**

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**

Hydraulics

FEMA Approval? **Limited Detail Study**

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Standard**

Are Banks Stable? **Yes**

Is Protection Needed? **Standard**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: Where:

Superstructure Type: **Culvert**

If Bridge:

If girder; why?

Length Of Structure:

Min. Number Of Spans:

Span Arrangement:

Waive offset:

Cap:

Skewed:

3@ 10' x 6' RCBC buried 1' with 2' sill in right hand barrel (looking downstream).

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour

Stage: ☐

New Alignment: ☐

On-site detour ☐



Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☐

ADT: **370 per SIR**

NHS: **No**

Tier: **Sub-Regional**

Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.:

Roadway lane width **9'** with **4'** paved shoulder – extend paved shoulders 50 ft.' either side of proposed culvert wing wall

Extension of shoulders: **extend 50' from the outermost culvert wing wall in each direction and then taper to the existing shoulder on an 8:1 taper on both sides of the proposed culvert**

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

Min. Pavement Surface Course: **2-1/2"**

Existing Roadway: **18' paved**

Pavement Marking: **None**

Pavement markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **III**

Truck Percentage: **6 % per BIR**

Reasonable Safe Speed per SIR: **25 mph per SIR**

Liquidated damages: will be imposed after **60** days of closure/construction. Amt: **\$ 500** per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Pin/caps to be provided & installed by DBT**

Salvageable materials: **all steel I beams, bearing plates, etc., and all timber caps**

Contact Person/number: **David Wayne Minton at (336) 903-9124**

Deliver to: **303 Statesville Road, North Wilkesboro, NC 28659**

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

Sequencing priority in construction?

Comments: Eliminate guardrail at culvert.

Wilkes 960317

