

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

WBS No.: **17BP.7.R.86**

Field Scoping Meeting Date: **Sept. 18, 2014**

Division: **7**

Location: **On-site**

Route (US/NC/SR): **SR 1115**

County: **ORANGE**

Project Description: **Bridge No. 670073 over CANE CREEK on SR 1115 (Bradshaw Quarry Road)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Tim Powers	336-487-0000	tpowers@ncdot.gov
Division Environmental Office/SEPI	Nikki Thomson	336-487-0000	Njthomson2@ncdot.gov
Hydraulics Engineer	Galen Cail	919-707-6711	Gcail@ncdot.gov
Hydraulics Engineer	Larry Clawson	919-707-6712	ldclawson@ncdot.gov
Hydraulics Engineer	Zack O'Keefe	919-707-6427	zokeefe@ncdot.gov
TPMU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
TPMU	Jamie Lancaster	919 707-6620	jlancaster@ncdot.gov
Bridge Management	Paul Garrett	919-707-6457	pgarrett@ncdot.gov
USACE	David Bailey	919-554-4884 x 30	David.E.Bailey2@usace.army.mil
DENR-DWR	Dave Wanucha	336-771-4951	Dave.Wanucha@ncdenr.gov
USACE	Brian Stewart		
Natural Environment Section	Amy James	919-707-6129	Aejames2@ncdot.gov
Natural Environment Section	Jim Mason	919-707-6136	jsmason@ncdot.gov
Division Bridge	Tamara Makhoulf	336-487-0000	tkmakhoulf@ncdot.gov

Existing Features

Feature Bridged: **670073 over CANE CREEK on SR 1115 (Bradshaw Quarry Road)**

Ex. Bridge Clear Deck Width: **25.08 Ft.** Roadway width: **16 (Ft.)**

(Bridge / Culvert) Length: **36 Ft.** Deck Width (Out To Out): **26.08 Ft.**

Water Depth: **1 Ft.** Height Bed-To-Crown: **11 Ft.**

Year Built: **1956** Posted: SV **19** TTST: **28**

Superstructure: **Timber deck on timber joists** Abutment: **timber** Pier Type:

Temp. Shored: **No**

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

PRI: **55.5 DP: 2.5 SR: 23.63** School Bussing crossings per day: **No comments provided by Schools**

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

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

If Off-Site, Description Of Detour Route: **SR 1114 to SR 1125 to SR 1126 to SR 1006**

Approximate Length Of Detour? **5.54 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 Bridges On Detour Currently Programmed? **No**

Are There EMS Or Business Access Issues? **Moderate Impact**

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

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

Overhead Utility Lines

Power Transmission Lines

Telephone

Cable Lines

Fiber Optic **Possible**

Water

Sewer

Natural Gas

Other

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **3 Months**

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: **Red cockaded woodpecker, Dwarf Wedgemussel, Michaux's sumac, Smooth coneflower, Bald Eagle**

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:

Water Quality Classification: **WS-II; HQW, NSW**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Cape Fear**

Riparian Buffer Rules: **Jordan**

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 Of Power Generation **No**

Water Supply Reservoir; **No**

Nutrient Sensitive Waters; **Yes**

Public Use Boat Ramp; **No**

Cemeteries ; **No**

Known Or Potential Historic Properties In The Area:

Architecture; No Survey Required

Archaeology; No Sites Present

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, Orange County Bike Route**

Comments: **Bike and Ped recommend 4' offsets on both sides of bridge and 4' paved shoulder on approaches. 42" bike safe rail**

Feature in NE quadrant is a roadside ditch. Stream located in SW quadrant.

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**
(MOA)
Is There Unusual Scour Potential? **No** Is Protection Needed? **Standard Protection**
Are Banks Stable? **Moderate** Is Protection Needed? **Rip Rap on Banks**
Appreciable Amount Of Large Debris? **Moderate**
Placement Of Bents In The Water Be Allowed: **No** Where:
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **60'** Min. Number Of Spans: **1** Span Arrangement: **60'**
Waive offset: **No** Cap: **4'** Skewed: **Yes**

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: **920/ SIR** NHS: **No** Tier: **Sub-Regional** Func. Class: **Minor Collector**
Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**
Roadway lane width **_11_** ' with **_6_** ' shoulders including **_4_** ' paved shoulders
Extension of Paved shoulders: end of **construction limits**
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**
Min. Pavement Surface Course: **2-1/2"** inches: Existing Roadway: **16 paved**
Pavement Marking: **Thermoplastic** Pavement markers: **None**
Will Railroad Involvement Be Required: **No** Method of Clearing: **II**
Truck Percentage: : **6 % per BIR;** Reasonable Safe Speed per SIR: **55 mph**
Liquidated damages: will be imposed after **100** days of closure/construction. Amt: \$ **350** per day
CEI by? **NCDOT** R/W by? **Division ROW** R/W monuments? **Conc.**
Salvageable materials: **None**
Contact Person/number:
Deliver to:
Removal of previous structure remnant abutments/piers: **No**
Sequencing priority in construction? **None**
Comments: **42" Vertical Concrete Barrier on bridge. Remove mud sills in channel down to footer at minimum. Slope in SE quadrant needs to be match existing slope or be flatter than existing slope.**



