NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

WBS No.: **17BP.12.R.104**

Field Scoping Meeting Date: **November 7, 2016**

Division: **12**

Location: **On-site**

Route (US/NC/SR): **SR 2033**

County: **Cleveland**

Project Description: **# 220034 on SR 2033 (Oak Grove Road) over MUDDY FORK CREEK**

Tier: **Subregional**

Municipality: **No; but near Shelby and within urban area boundary**

Attendees

	NAME	PHONE	EMAIL
Division Bridge Manager	Steve Rackley	704-480-9034	srackley@ncdot.gov
Division Environmental Supervisor	Trish Beam	704-480-9044	pdbeam@ncdot.gov
Hydraulics Engineer	Paul Fisher	919-707-6720	pfisher@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
US FWS	Andrew Henderson	828- 258 - 3939 x 227	andrew_henderson@fws.gov
Environmental Specialist	Jeff Wyatt	704-480-9041	jlwyatt@ncdot.gov
Div. 12 Bridge Maintenance Technician	Ryan Barbee	704-480-9029	rbarbee@ncdot.gov
L & S - Locating Engineer	Stacy Cooke	704-284-3331	slcooke@ncdot.gov

Existing Features

Feature Bridge: **220034 on SR 2033 (Oak Grove Road) over MUDDY FORK CREEK**

Ex. Bridge Clear Deck Width: **24 (Ft.)** Approach Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **160 (Ft.)** Deck Width (Out To Out): **26.4 (Ft.)**

Water Depth: **1' (Ft.)** Height Bed-To-Crown: **21' (Ft.)**

Built date: **1954** Posted: SV: **34** TTST: **39**

Superstructure Type: **RC on I-Beams** End Bents: **RC Caps & Timber Piles**

Interior Bents**: RC Post & Beam**

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

Sufficiency Rating: **24.82** DP: **0** School Bus crossings per day: **12 trips; no concerns**

Posted Speed Limit Vicinity: 55 (mph) Posted

Detour: Off-Site ☒ Stage Construction ☐ On-site: ☐

If Off-Site, Description Of Detour Route: **SR 2044 – SR 1001**

Approximate Length Of Detour? **2.8 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 future plans for upgrading this roadway either at or in the vicinity of this project? **No**

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

Sequencing priority in construction? **Build concurrently with 220067 (1st in contract)**

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

Power Transmission Lines In Conflict

Telephone In Conflict - **Yes**

Cable Lines In Conflict

Fiber Optic In Conflict - **Yes**

Water In Conflict–**Yes; there is a Kings Mountain 36" DI that tees into a 24" steel downstream & a Cleveland County 12" DI upstream**

Sewer In Conflict

Natural Gas In Conflict

Other In Conflict

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **__4__ 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? **Northern Long-Ear Bat (NLEB); Dwarf-Flowered heartleaf**

T&E species effect: **None, except NLEB -** ***May Affect, but the activity is accepted under the Biological Opinion on the Northern Long-eared bat final 4d rule***

Trout County : **No** TVA County: **No**

CAMA County: **No** Primary Nursery Area: **No**

Moratoria: **No** Which species : Duration:

Permits Required:

Water Quality Classification: **Class "C"** 303d: **No**

Coast Guard Permit? Drainage Basin: **Broad River** Riparian Buffer rules: **None**

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**	Lake For Recreation Of Power Generation	**No**
Water Supply Reservoir: **SE of Kings Mtn.**		Nutrient Sensitive Waters	**No**
VAD:	**No**	Cemeteries:	**No**
Public Use Boat Ramp	**No**	Gamelands:	**No**

Known Or Potential Historic Properties In The Area ?
Historic Archit. Survey? **No Survey Required** Archaeology Survey? **No Survey Required**
Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Any Church, Community Center, Or Other Public Facility Impacts? **No**

Project in on a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **Yes**; **Kings Mountain Bike Plan**

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:

Hydraulics

FEMA Approval? **Yes** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **STD**
Are Banks Stable? **Yes** Is Protection Needed? **STD**
Appreciable Amount Of Large Debris? **Moderate**
Placement Of Bents In The Water Be Allowed: **No** Where:
Superstructure Type: **Bridge** If Bridge: **BB** If girder; why? **1-span girder is optional if it meets hydraulic requirements**
Length Of Structure: **180 ft** Min. Number Of Spans**: 2** Span Arrangement: **1 @ 100; 1@ 80**
Waive setback: **No** Cap: **4'-0"** Skewed:

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 Rule Checklist ☒

ADT: **3900 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Major Collector**; **Urban**

Bridge Min. Clear Deck width Recommended by Div: **36' OTO 2-bar rail for bike route**

Roadway lane width **12'** with **6 '** shoulders including **4'** paved shoulders

Paved shoulders to be extended to **end of construction limits** - **Yes**

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

Min. Pavement Surface Course: **2 ½"** inches: Existing Roadway: **paved**

Pavement marking: **Paint** Pavement Markers: **Snowplowable**

Will Railroad Involvement Be Required? **No** Method of Clearing: **III**

Truck Percentage: : **7 %**; Reasonable Safe Speed: 55 **mph**

Liquidated damages: will be imposed after **120** days of closure. Amt: **$ 1000** per day **(due to high traffic count-requested by Division)**

CEI: **DOT** R/W: **DBT** R/W monuments: **Pin & Caps**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

Removal of remnant abutments/piers: **No**

Comments: D**o not shop curve bridge anchor unit for driveway at trailing northwest end of the bridge. On the approaches of the bridge, taper the new guardrail back to the existing guardrail over the standard approach guardrail lengths.**

SR 2044
Malory Ct
SR 2673
SR 2181
SR 2177
Candlewood Dr
SR 2177
SR 2162
SR 2161
Oakwood Dr
SR 2674
SR 2179
Lakewood Dr
SR 2191
Claremount Dr
SR 1001
Harbourtown Dr
Preston Trl
New Camp Creek Church Rd
SR 2192
820 ft
Moss Lake Park II (Westside)
SR 2044
35
Stony Point Rd
SR 1001
Rye Ct
SR 2044
Oak Grove Rd
34
SR 2033
Oak Grove Rd
SR 2040
SR 2033
SR 2033
SR 2114
Luthers Rd
Reay Ln
SR 2114
SR 2040
Woodring Pl
Greystone Dr
SR 2045
Lovelace Rd
Cricket Ln
40
872 ft