

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

WBS No.: **17BP.6.R.61**

Field Scoping Meeting Date: **July 22, 2014**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1005**

County: **COLUMBUS**

Project Description: **Bridge No. 230308 over SOULES SWAMP on SR 1005 (Peacock Rd.)**

Tier: **Subregional**

Municipality: **Chadbourn** *Municipality Agreement

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Brice Bell	910-486-1493	bricebell@ncdot.gov
Division Environmental Off.	Jim Rerko	910-437-0207	jjrerko@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6734	jlindsey@ncdot.gov
TPMU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
TPMU	Rachel Evans	919-707-6609	rcevans@ncdot.gov
TPMU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
Bridge Management	Paul Garrett	919-707-6457	pgarrett@ncdot.gov
Resident Engineer	W.R. Marsh		
Assistant Resident Engineer	Terry Church		
Div 6 Locating Engineer	John Kaukola		
Division Maintenance Engineer	Ken Murphy		
Division Bridge Engineer	Darren Pittman		
Bridge Maintenance Supervisor	Barry Gelezinsky		
NCDOT Div 6	Kevin Worley		
District Engineer	Drew Cox		
USFWS*	Gary Jordan	919-856-4520x32	gary_jordan@fws.gov;
DENR-DWR	Mason Herndon	910-308-4021	Mason.herndon@ncdenr.gov
USACE*	Liz Hair	910-251-4049	sarah.e.hair@usace.army.mil
NCWRC*	Travis Wilson	919-707-0370	Travis.Wilson@ncwildlife.org;

*invited but did not attend

**see sign-in sheet for more info

Existing Features

Feature Bridged: **230308 over SOULES SWAMP on SR 1005 (Peacock Rd.)**

Ex. Bridge Clear Deck Width: **24 (Ft.)**

Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **37 (Ft.)**

Deck Width (Out To Out): **25.33(Ft.)**

Water Depth: **3(Ft.)**

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

Year Built: **1951**

Posted: SV **18**

TTST: **26**

Superstructure: **ST M-BM**

Abutment: **TM**

Pier Type: **TM**

Temp. Shored: **Yes**

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

PRI: **65** DP: **1.5** SR: **6.98**

School Bussing crossings per day: **2 trips/4 buses**

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

Existing Road Surface: **Paved**

Detour Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **West route: Bus 74/76, NC 410, SR 1429**

Approximate Length Of Detour? **6.0 (Miles)**

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

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing (with St./Rd. names)**

Improvements Needed To Bridges On Detour? **No, pipe upstream on SR1429**

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

Are There EMS Or Business Access Issues? **Length of Detour route would increase response times for fire, EMS and law enforcement**

Are There Any Railroad Crossings On Detour? **Yes but rail is not active**

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

Overhead Utility Lines In Conflict

Power Transmission Lines

☐ In Conflict

upstream, double circuit line, guy wire crosses 35' north of bridge,

Telephone

☐ In Conflict

Cable Lines

☐ In Conflict

Fiber Optic

☐ In Conflict

Water

☐ In Conflict

downstream

Sewer

☐ In Conflict

downstream

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 **12 Months if transmission line to be relocated.**

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: **NES located**

Endangered Species In County: **American alligator, Atlantic sturgeon, Bald Eagle (BGPA), Red-cockaded woodpecker, Shortnose sturgeon, Waccamaw silverside, Wood stork, Cooley's meadowrue & Rough-leaved loosestrife.**

T&E species effect: **Waccamaw silverside – No effect**

Trout County : **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits: **Nationwide 14**

Water Quality Classification: **C; Sw**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Lumber**

Riparian Buffer Rules: **No**

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: **No**

Public Use Boat Ramp: **No**

Cemeteries: **No**

Known Or Potential Historic Properties In The Area:

Architecture: No Survey Required

Archaeology: No Archaeological Sites

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**

Note:

***H piles or pipe piles allowed, no concrete piles**

Hydraulics

FEMA Approval? **Limited DS** State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **No**
Are Banks Stable? **Yes** Is Protection Needed? **Standard end bent**
Appreciable Amount Of Large Debris? **No**
Placement Of Bents In The Water Be Allowed: **No** Where: **N/A**
Superstructure Type: **Culvert** If Bridge: If girder; why?
Length Of Structure: Min. Number Of Spans: **1** Span Arrangement:
Waive offset: Cap: Skewed: **90**

-culvert due to site constraints, avoid sewer line and transmission line relocation.
-culvert 3@12x8 RCBC cast in place (no precast), baffles and sills, buried 1'

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: **2500 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Minor Collector, Rural**
Bridge Min. Clear Deck Width Recommended by Div.:
Roadway lane width **11'** with **6'** shoulders including **2'** paved shoulders (**4' shoulders at guardrail**)
Extension of Paved shoulders: end of **construction limits** and **blunt end**.
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**
Min. Pavement Surface Course: **3"** inches: Existing Roadway: **18**
Pavement Marking: **Thermoplastic** Pavement markers: **Raised**
Will Railroad Involvement Be Required: **No** Method of Clearing: **II modified**
Truck Percentage: : **6% per BIR** Reasonable Safe Speed per SIR: **55 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 monuments**
Salvageable materials: **No**
Removal of previous structure remnant abutments/piers: **No**
Sequencing priority in construction? **Build 230126, 230308 sequentially**
Comments:
-Drainage District canal access to be maintained on both sides of roadway.
-Strawberry festival 1st weekend of May- should not be of concern to detour traffic
-Need to avoid impacts to sewer line and water line downstream of bridge.
-May need to consider asymmetrical widening due to gravity sewer line downstream side
Division requests new pavement a minimum of 50 feet from ends of culvert

Columbus 230308

