

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

WBS No.: **17BP.6.R.44**

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

Division: **6**

Location: **On-site**

Route (US/NC/SR): **NC-410**

County: **COLUMBUS**

Project Description: **Bridge No. 230013 over Beaver Dam Swamp on NC-410 (Joe Brown Hwy S)**

Tier: **Regional**

Municipality: **No**

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
Hydraulics Engineer	Jon Moore	919-707-6738	Jlmoore6@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	Rusty Marsh	910-642-2489	rmarsh@ncdot.gov
Asst. Resident Engineer	Terry Church	910-642-2489	tachurch@ncdot.gov
Div. 6 Locating Engineer	John Kaukola	910-486-1338	jkaukola@ncdot.gov
Div. 6 Maintenance Engineer	Ken Murphy	910-486-1493	rkmurphy@ncdot.gov
Div. 6 Bridge Engineer	Darren Pittman	910-829-6345	dpittman@ncdot.gov
Div. 6 Bridge Maint. Supervisor	Barry Gelezinsky	910-642-4388	bwgelezinsky@ncdot.gov
Division 6 Bridge Maint.	Kevin Worley	910-642-4388	kjworley@ncdot.gov
Div. 6 Dist. 3 Engineer	Drew Cox	910-642-3760	hlcox@ncdot.gov
DENR-DWR	Mason Herndon	910-308-4021	Mason.herndon@ncdenr.gov
USACE	Liz Hair	910-251-4049	sarah.e.hair@usace.army.mil

Existing Features

Feature Bridged: **230013 over Beaver Dam Swamp on NC-410 (Joe Brown Hwy S)**

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

Roadway width: **20 (Ft.)**

(Bridge / Culvert) Length: **41 (Ft.)**

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

Water Depth: **7(Ft.)**

Height Bed-To-Crown: **14(Ft.)**

Year Built: **1948**

Posted: SV **NP**

TTST: **NP**

Superstructure: **ST M-BM**

Abutment: **TM**

Pier Type: **TM**

Temp. Shored: **Yes**

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

PRI: 72.2 DP: **SR: 16.5**

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

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: **SR 1004, SR 1005, SR 1324**

Approximate Length Of Detour? **4.5 (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**

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? **No**

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

Overhead Utility Lines In Conflict

Power Transmission Lines In Conflict

Telephone

Cable Lines **Time Warner**

Fiber Optic

Water In Conflict No information, possible

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 **3 Months**

Is There Any Future Utility Construction Anticipated In The Project Area **No**

Is A FEMA Buy-Out Property Being Impacted **Yes; Avoid Columbus Cty Property in the NE quad**

Environmental

Wetlands At Site **Yes**

Comments: **NES delineated**

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:

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 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**

Division prefers H piles or pipe piles and no concrete piles.

Hydraulics

FEMA Approval? **Limited DS (MOA)** 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? **Moderate**
Placement Of Bents In The Water Be Allowed: **Yes** Where: **5' from Interior Bent on North side**
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **105'** Min. Number Of Spans: **2** Span Arrangement: **1@55, 1 @ 50**
Waive offset: **Need offset but not 10 feet.** Cap: **2'6"** Skewed: **90**

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: **4400 per SIR** NHS: **No** Tier: **Regional** Func. Class: **Major Collector, Rural**

Bridge Min. Clear Deck Width Recommended by Div.: **40' CRW, 42' OTO with 42" Vertical Face Rail**

Roadway lane width **12'** with **8'** shoulders including **4'** paved shoulders

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? **Existing guardrail extends 220' north and 220' south.**

Min. Pavement Surface Course: **3"** inches:

Existing Roadway: **20**

Pavement Marking: **Thermoplastic**

Pavement markers: **Raised**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II modified (hand clearing from ss out 5')**

Truck Percentage: : **7% per BIR**

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

Liquidated damages: will be imposed after **135** days of closure/construction. Amt: \$ **500** per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **concrete monuments**

Salvageable materials: **Bridge Approach rail (Type III) and transition pieces**

Contact Person/number: **Barry Gelezinsky / 910-642-4388**

Deliver to: **31 Airport Road, Whiteville, NC** , contractor is to provide a weeks' notice to the Bridge Maintenance Supervisor prior to delivery

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

Sequencing priority in construction? **Construction from Labor Day to Memorial Day (No construction during summer months).**

Comments:

Division recommends asphalt overlay on bridge. Division requests new pavement a minimum of 50

feet from both ends of bridge and approach slabs perpendicular to roadway. Approach work to extend 30' past the existing limits of existing guardrail at both ends.

