

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

WBS No.: **17BP.6.R.52**

Field Scoping Meeting Date: **Sept 24, 2014**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR1504**

County: **COLUMBUS**

Project Description: **Bridge No. 230175 over Dunn Swamp on SR1504 (Princess Ann Rd.)**

Tier: **Subregional**

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	Christy Huff	919-707-6606	chuff@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: **230175 over Dunn Swamp on SR1504 (Princess Ann Rd.)**

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

Roadway width: **17 (Ft.)**

(Bridge / Culvert) Length: **73 (Ft.)**

Deck Width (Out To Out): **25.333 (Ft.)**

Water Depth: **5 (Ft.)**

Height Bed-To-Crown: **13 (Ft.)**

Year Built: **1958**

Posted: SV **16**

TTST: **24**

Superstructure: **ST M-BM ;**

Abutment: **TM**

Pier Type: **TM**

Temp. Shored:

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

PRI: **64.77** DP: **5.44** SR: **17.07**

School Bussing crossings per day: **2 buses,**

Posted Speed Limit Vicinity: **55 /SDV** (mph) **4 trips; moderate concerns**

Detour Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1414, SR 1455**

Approximate Length Of Detour? **4.7 (Miles) node to node per SDV**

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? **B#171 is on the detour route. Weight Limit of #171 is not posted, while #175 is 16/24. Replace B#175 before B#171.**

Are There EMS Or Business Access Issues? **High impact, 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

In Conflict

NCDOT Division 6 Utility Coordinator
Dan Johnson (910) 437-0207

Cable Lines In Conflict

Fiber Optic

In Conflict

Water

In Conflict

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 **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: Atlantic sturgeon, Bald eagle, RCW, Shortnose sturgeon, Waccamaw silverside, Wood stork - No Effect; American alligator - Not Required; Cooley's meadowrue and Rough-leaved loosestrife – Unresolved (survey June 2015)

Trout County : **No**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits: **NW 14 due to access drive**

Water Quality Classification: **C; Sw**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Lumber**

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**

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 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: **Division has requested to reconnect the access drives for “de-snagging” operations. This path runs along NW and NE quadrants paralleling the creek to B#171. Use a 10’ driveway width per Division.**

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 DS** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **Yes** Is Protection Needed? **Normal End Bent Protection**
Are Banks Stable? **Yes** Is Protection Needed? **No**
Appreciable Amount Of Large Debris? **Yes**
Placement Of Bents In The Water Be Allowed: **Yes** Where: **max dist. 10' from the downstream SW water's edge.**
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **100'** Min. Number Of Spans: **2** Span Arrangement: **60-40**
Waive offset: **No** Cap: **2'6"** Skewed: **90 degrees**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☒ Stage: ☐ New Alignment: ☐ On-site detour ☐
Clear roadway width (CRW): Alignment; N, E, W, S CRW:
Temp. Signals: Alignment; N, E, W, S one lane w/ signals;
Alignment: N, E, W, S or two lanes CRW;
Alignment;
Environmental Document Prepared by DEO: Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☒
ADT: **930 per SIR** NHS: **0** Tier: **Subregional** Func. Class: **Local, Rural**
Bridge Min. Clear Deck Width Recommended by Div.: **33 out to out**
Roadway lane width **10'** with **3'** 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? **Yes**
Min. Pavement Surface Course: **2-1/2** inches: Existing Roadway: **17**
Pavement Marking: **Paint** Pavement markers: **Raised**
Will Railroad Involvement Be Required: **No** Method of Clearing: **Method II Modified**
Truck Percentage: : **6 % 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: **No**

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

Sequencing priority in construction? **This bridge (#175) prior to #171**

Comments:

- **DBT shall not cut down Cypress or Hickory trees in the project area; the limbs may be trimmed.**
- **50' beyond the end of the new bridge should be full depth paved; Also mill at the tie ins.**