

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

WBS No.: **17 BP.6.R.77**

Field Scoping Meeting Date: **June 27, 2016**

Division: **6**

Location: **On-site**

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

County: **ROBESON**

Project Description: **Replace Bridge No. 223 on SR 1303 over Gum Swamp in Robeson County**

Tier: **Sub-Regional Teir**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Brice Bell	910-486-1493	bricebell@ncdot.gov
Division Environmental Officer	Jim Rerko	910-437-0207	jjrerko@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
Hydraulics Engineer	Larry Clawson	919-707-6712	ldclawson@ncdot.gov
PPU	Christy Huff	919-707-6606	chuff@ncdot.gov
PPU	Eileen Fuchs	919-707-6613	eafuchs@ncdot.gov
Assistant District Engineer	Michael Griffin	910-728-5842	mdgriffin@ncdot.gov
Division Maintenance Engr.	Ken Murphy, Jr.	910-486-1493	rkmurphy@ncdot.gov
County Maintenance Engineer	Eugene McKethan, III	910-618-5543	emckethan@ncdot.gov
Asst. Resident Engineer	Donavon Hunt	910-618-5689	dhunt@ncdot.gov
Division Bridge Maintenance Engineer	Darren Pittman	910-829-6345	dpittman@ncdot.gov
Bridge Maintenance Sup.	Daniel Leggett	910-618-5542	dtleggett@ncdot.gov
Division L&S	John Kaukola	910-486-1338	jkaukola@ncdot.gov
NCDENR, Water Quality	Joanne Steenhuis	910-796-7306	Joanne.steenhuise@ncdenr.gov
Division Bridge Program Manager	Brice Bell	910-486-1493	bricebell@ncdot.gov
Division Utilities Coordinator	Dan Johnson	910-437-0207	dpjohnson1@ncdot.gov

Existing Features

Feature Bridged: **770223 over GUM SWAMP on SR 1303**

(Old Red Springs Rd.)

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

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

(Bridge / Culvert) Length: **53 (Ft.)**

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

Water Depth: **4 (Ft.)**

Height Bed-To-Crown: **8 (Ft.)**

Year Built: **6**

Posted: SV **23**

TTST: **30**

Superstructure: **Reinf. Concrete Floor on Timber Joints**

Substructure: **End Bts & Int. Bts: timber caps on timber piles**

Pier Type:

Temp. Shored:

Historic High Water (Elev. To The Existing Structure): **(Ft)Typically on the Cap**

PRI: DP: **SR: 42.28**

School Bussing crossings per day: **8**

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

Detour Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1339 to SR 1352 to SR 1312**

Approximate Length Of Detour? **2.11 (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? **No**

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

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

Overhead Utility Lines **In Conflict** **Power**

Power Transmission Lines **In Conflict**

Telephone **In Conflict**

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 **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 **Yes**

Comments:

Endangered Species In County: **American alligator, Red-cockaded woodpecker, Michaux's sumac, Bald eagle**

T&E species effect: **No Effect**

Trout County : **No**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits: **NW3**

Water Quality Classification: **C**

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: **No**

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**

Hydraulics

FEMA Approval? **Yes, Limited** (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? **Large**

Placement Of Bents In The Water Be Allowed: **1** Where: **Water's edge**

Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?

Length Of Structure: **85** Min. Number Of Spans: **2** Span Arrangement: **50-35**

Waive offset: **No** Cap: **2'6"** Skewed: **90**

***This bridge to include the two adjacent equalizer pipes to be sized by the DBT.**

Existing Dimensions: West of bridge – 44”h x 60”w & 37’ long; East of bridge – 42”h x 72”w & 37’ long

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: **1600 / SIR** NHS: **No** Tier: **Sub-Regional** Func. Class: **Minor Collector**

Bridge Min. Clear Deck Width Recommended by Div.: **33 feet out to out**

Roadway lane width **11’** with **4’** shoulders including **2’** 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? **Yes**

Min. Pavement Surface Course: **3”** inches: Existing Roadway: **18**

Pavement Marking: **Paint; Match Existing** Pavement markers: **Raised**
Pavement Mrks

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 **160** days of closure/construction. Amt: **\$ 500** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin & Cap**

Salvageable materials: **No**

Contact Person/number:

Deliver to:

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

Sequencing priority in construction? **Both Bridges 26 & 223 are to be constructed first in the contract; however, let DBT's design and construction schedule dictate which starts first.**

Comments: **-If piles can't be pulled fully, cut off piles at mud line.**

-Incorporate into the contract the replacement of two CMP at both ends of bridge with Aluminum arch pipes with headwalls.

Pave full depth 50' from each end of the new structure on All bridges.