

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

WBS No.: **17BP.6.R.84**

Field Scoping Meeting Date: **May 8, 2017**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1513**

County: **Robeson**

Project Description: **Bridge No. 770228 over Burnt Swamp on SR 1513**

Tier: **Subregional - Local**

Funding: **State**

Municipality: **N/A**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Christy Huff	910-364-0600	chuff@ncdot.gov
Division Environmental Officer	Jim Rerko	910-364-0580	jjrerko@ncdot.gov
Resident Engineer	Mike Parker	910-618-5689	jmparkerjr@ncdot.gov
Div. 6 District Engineer	Chuck Miller	910-618-5546	csmiller@ncdot.gov
Div. 6 Locating Engineer	John Kaukola	910-486-1338	jkaukola@ncdot.gov
Robeson County Maint. Engineer	Brice Bell	910-618-5543	bricebell@ncdot.gov
Div. 6 Bridge Engineer	Darren Pittman	910-364-0670	dpittman@ncdot.gov
Robeson Bridge Maint. Supervisor	Daniel Leggett	910-618-5542	dtleggett@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
Hydraulics Engineer	Jon Moore	919-707-6738	Jlmoore6@ncdot.gov
DENR-DWR	Joanne Steenhuis	910-796-7306	Joanne.steenhuis@ncdenr.gov
Div. 6 Bridge Maint.	Mike Fisher	910-364-0670	mdfisher@ncdot.gov
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
Div. 6 Const. Staff Engineer	Joe Bailey	910-364-0600	Jwbailey1@ncdot.gov

Existing Features

Feature Bridged: **770228 over Burnt Swamp on SR 1513**

Ex. Bridge Clear Deck Width: **24.75 (Ft.)**

Roadway width: **24 (Ft.)**

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

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

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

Height Bed-To-Crown: **7 (Ft.)**

Year Built: **1967**

Posted: SV **18 Tons**

TTST: **27 Tons**

Superstructure: **RC Deck on
timber joists**

Abutment: **Timber caps/timber
piles**

Pier Type:

Temp. Shored: **Yes**

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

PRI: **55.65**

DP: **2.5**

SR: **28.84**

School Bussing crossings per day:

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1318 to SR 1521 to SR 1520 to SR 1515**

Approximate Length Of Detour?

2.4 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 future plans for upgrading this roadway either at or in the vicinity of this project? **No**

Are Bridges On Detour Currently Programmed?

No

Are There EMS Or Business Access Issues?

Are There Any Railroad Crossings On Detour?

No

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

Overhead Utility Lines

In Conflict **downstream**

Power Transmission Lines

~~In Conflict~~

Telephone

In Conflict **downstream**

Cable Lines

In Conflict

Fiber Optic

In Conflict

Water

In Conflict **Possible**

Sewer

~~In Conflict~~

Natural Gas

~~In Conflict~~

Other

In Conflict

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: **All 4 quadrants**

Endangered Species In County **Red-cockaded woodpecker, Michaux's sumac**

T&E species effect: **No effect for all**

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

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

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

Permits discussion:

Water Quality Classification: **WS-IV; Sw (14-10-8-4-(0.5))** 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 or Power Generation:	No
Water Supply Reservoir:	No	Nutrient Sensitive Waters:	No
Public Use Boat Ramp:	No	Cemeteries:	No
VAD/Farmland Protection:	No	Game Lands:	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? **Union Chapel School**

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 Bents:

Hydraulics

FEMA Approval? **Yes** (MOA)

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: **Min 5' off top bank**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **65**

Min. Number Of Spans: **2**

Span Arrangement: **1 @35, 1 @30**

Waive offset: **Yes**

EB Cap: **2'-6"**

Skewed: **90 degrees**

Maintain low chord. Keep bridge on 02. Flumes allowed per Hydro.

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☐

Minimum Criteria Checklist ☒

ADT: **390 per SIR**

NHS: **No**

Tier: **Subregional**

Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **33'**

Roadway lane width: **10'** with **3'** shoulders

Extension of Paved shoulders: **N/A**

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes 8:1 down to 2' and blunt end**

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

Existing Roadway: **18'**

Pavement Marking: **Paint**

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? **Pin and cap.**

Salvageable materials: **Nothing**

Contact Person/number:

Deliver to:

Removal of previous structure remnant abutments/piers: **Nothing**

Sequencing priority in construction? **No**

Comments: