

**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:              | <b>No</b> | Wildlife Refuge:                | <b>No</b> |
| State, County, Or Local Park: | <b>No</b> | Wild And Scenic River:          | <b>No</b> |
| Airport:                      | <b>No</b> | Recreation or Power Generation: | <b>No</b> |
| Water Supply Reservoir:       | <b>No</b> | Nutrient Sensitive Waters:      | <b>No</b> |
| Public Use Boat Ramp:         | <b>No</b> | Cemeteries:                     | <b>No</b> |
| VAD/Farmland Protection:      | <b>No</b> | Game Lands:                     | <b>No</b> |

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**

**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: