

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

WBS **17BP.12.R.104**

Field Scoping Meeting Date: **February 24, 2016**

Division: **12**

Location: **On-site**

Route (US/NC/SR): **SR 2245**

County: **CLEVELAND**

Project Description: **Bridge No. 220067 over Beason Creek on SR 2245 (Bethlehem Rd)**

Tier: **SUBREGIONAL**

Funding: **STI**

Municipality: **No**

**Attendees**

|                                   | Name             | Phone No.            | E-mail                            |
|-----------------------------------|------------------|----------------------|-----------------------------------|
| Division Bridge Manager           | Steve Rackley    | 704-480-9034         | srackley@ncdot.gov                |
| Division Environmental Supervisor | Trish Beam       | 704-480-9044         | pdbeam@ncdot.gov                  |
| Division Environmental Specialist | Jeff Wyatt       | 704-480-9041         | jlwyatt@ncdot.gov                 |
| Division Construction Engineer    | Larry Carpenter  | 704-480-9020         | lcarpenter@ncdot.gov              |
| Division Bridge Engineer          | Travis Jordan    | 828-466-5525         | trjordan1@ncdot.gov               |
| Division Utility Coordinator      | Chad Drewery     | 704-480-9051         | cwdrewery@ncdot.gov               |
| Division Locating Engineer        | James Jeffreys   | 704-480-5531         | jjeffreys@ncdot.gov               |
| Region III Locating Engineer      | Pat Tuttle       | 336-969-9550         | ptuttle@ncdot.gov                 |
| PPU                               | Pam Williams     | 919-707-6608         | prwilliams@ncdot.gov              |
| PPU                               | Laura Sutton     | 919-707-6607         | lsutton@ncdot.gov                 |
| Hydraulics Engineer               | Paul Fisher      | 919-707-6720         | pfisher@ncdot.gov                 |
| Hydraulics Engineer               | Roger Djernes    | 919-707-6715         | rdjernes@ncdot.gov                |
| USACE                             | Steven Kichefski | 828-271-7980<br>x234 | Steven.L.Kichefski@usace.army.mil |
| NCDEQ-DWR                         | Donna Hood       | 704-663-1699         | donna.hood@ncdenr.gov             |
| USFWS                             | Andrew Henderson | 828-258-3939         | andrew_henderson@fws.gov          |
| NCWRC                             | Marla Chambers   | 704-984-1070         | marla.chambers@ncwildlife.org     |
|                                   |                  |                      |                                   |
|                                   |                  |                      |                                   |
|                                   |                  |                      |                                   |

## **Existing Features**

Feature Bridged: **220067 over Beason Creek on SR 2245** (Bethlehem Rd)

Ex. Bridge Clear Deck Width: **25 (Ft.)**

Roadway Width: **24.333 (Ft.)**

Bridge Length: **76 (Ft.)**

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

Water Depth: **1 (Ft.)**

Height Bed-To-Crown: **15 (Ft.)**

Year Built: **1951**

Posted: **SV 14**

TTST: **20**

Superstructure: **TIMBER DECK  
ON I-BEAMS**

Abutment: **TIMBER  
CAPS/TIMBER PILES**

Pier Type: **TIMBER  
CAPS/TIMBER PILES**

Temp. Shored: **NO**

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

PRI: **64.92**

DP: **44.30**

SR: **22.24**

School Bus crossings per day: **0 crossings,  
already buses rerouted due to bridge weight  
restrictions**

Posted Speed Limit Vicinity: **45 mph**

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 2243 to SR 2246 to SR 2247**

Approximate Length Of Detour?

**3.3 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**

Sequencing priority in construction:

**1<sup>st</sup> priority in contract; may build at the same time as**

**220034**

Are There EMS Or Business Access Issues?

**No response**

Are There Any Railroad Crossings On Detour?

**No**

Should Work Zone Pedestrian Access Be Maintained During Construction?

**No**

Overhead Utility Lines

In Conflict **possible**

Power Transmission Lines

In Conflict

Telephone

In Conflict

Cable Lines

In Conflict

Fiber Optic

In Conflict

Water

In Conflict **Yes**

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:

Comments:

Endangered Species In County: **Northern long-eared bat (NLEB); Dwarf-flowered heartleaf**

T&E species effect: **NLEB - *May Affect, but the activity is accepted under the Biological Opinion on the Northern Long-eared bat final 4d rule***

Trout County: **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria:

Which species:

Duration:

Permits discussion:

Water Quality Classification: **C**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Broad**

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: NHP**

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic:

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? **No**

Comments:

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells? -----

Comments:

Possible Foundation Type:

End Bents:

Interior Bents:

## Hydraulics

FEMA Approval? **Yes** (MOA ) State Stormwater Permit? **Yes**  
Is There Unusual Scour Potential? **Moderate** Is Protection Needed? **Std.**  
Are Banks Stable? **No** Is Protection Needed? **Std.**  
Appreciable Amount Of Large Debris? **No**  
Placement Of Bents In The Water Be Allowed: **No** Where:  
Structure Type: **Bridge** If Bridge: **BB** If girder; why?  
Length Of Structure: **90 ft** Min. Number Of Spans: **1** Span Arrangement: **1 @90**  
Waive offset: **Yes** EB Cap: **4'-0"** Skewed:

## Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒ Stage Construction ☐ New Alignment ☐ On-site ☐  
Clear roadway width:  
Temp. Signals:  
Alignment: N, E, W, S Alignment: N, E, W, S Alignment: N, E, W, S  
Environmental Document Prepared by DBT and signed by DEO:  
Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☒  
ADT: **1800 SIR** NHS: **No** Tier: **SUBREGIONAL** Func. Class: **Local**  
Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO Vertical Face Rail**  
Roadway lane width: **11'** with **4'** shoulders, including **2'** paved shoulders  
Extension of Paved shoulders: end of **construction limits - Yes**  
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? - **Yes**  
Min. Pavement Surface Course: **2½"** Existing App. Roadway: **20'**  
Pavement Marking: **Paint** Pavement Markers: **None**  
Will Railroad Involvement Be Required: **No** Method of Clearing: **III**  
Truck Percentage: **2% Duals 1% TTST** Reasonable Safe Speed per SIR: **45 mph**  
Liquidated damages: will be imposed after **90** days of closure/construction. Amt: **\$ 500** per day  
CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin & Caps**  
Salvageable materials: **None**  
Contact Person/number:  
Deliver to:  
Removal of previous structure remnant abutments/piers:  
Sequencing priority in construction? **1<sup>st</sup> priority in Contract**  
Comments:



4948 Barrett Rd, Kings Mountain, NC 28086 to 447-499 Bethlehem Rd, Kings Mountain, NC 28086

Drive 3.3 miles, 6 min

220067 Detour Route

