

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

WBS No.: **48085.1.1 (B-5892)**

Field Scoping Meeting Date: **March 16, 2016**

Division: **13**

Meeting Location: **On-site**

Route (US/NC/SR): **SR 1325**

County: **Mitchell**

Project Description: **Bridge No. 600157 over Beans Creek on SR 1325 (Beans Creek Road)**

Tier: **Sub-regional**

Funding: **State**

Municipality: **N/A**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Chris Medlin	(828) 298-1128	cdmedlin@ncdot.gov
Division Environmental Off.	Yates Allen	(828) 251-6171	yallen@ncdot.gov
Hydraulics Engineer	Marc Shown Rusty Lassiter	(919) 707-6751	mshown@ncdot.gov
PPU	Pam Williams	(919) 707-6608	prwilliams@ncdot.gov
PPU	Eileen Fuchs	(919) 707-6613	eafuchs@ncdot.gov
DENR-DWQ	Kevin Barnett	(828) 296-4657	Kevin. Barnett@ncdenr.gov
USFWS	Andrew Henderson	(828) 258-3939 ext. 227	andrew_henderson@fws.gov
Division Utility	Robert Briggs	(828) 251-6171 ext. 224	rbriggs@ncdot.gov

Gersheon Carver & Steve Gosnell– L&S

Paul Roberts – Asheville Bridge

Existing Features

Feature Bridge: **Bridge No. 600157 over Beans Creek on SR 1325 (Beans Creek Road)**

Exist. Bridge Clear Deck Width: **17'**

Approach Roadway width: **18'**

Bridge Length: **31'**

Deck Width (Out To Out): **18'**

Water Depth: **2'**

Height Bed-To-Crown: **9'**

Year Built: **1958**

Posted Weight Limits: SV: **19** TST: **28**

Superstructure:
Timber floor on Timber Joists

Substructure: **End bents & Int.
bents : Timber Caps / posts &
sills / concrete footing**

Pier Type: **1@ 15'-6;
1@15'-1**

Temp. Shored:

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

PRI: **34.58** DP: **2.50** SR: **42.3**

School Bus crossings per day: **3**

Posted Speed: **55 mph (Statutory)**

Detour Off-Site ☐

Stage Construction ☐

New Alignment ☐

On-site ☒

If Off-Site, Description Of Detour Route: **N/A**

Approximate Length Of Detour? **N/A – dead end road**

Improvements Needed To Road(s) On Detour? **N/A**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

Improvements Needed To Bridges On Detour? **N/A**

Are future plans for upgrading this roadway either at or in the vicinity of this project?

Are Bridges On Detour Currently Programmed? **N/A**

Are There EMS Or Business Access Issues? **No, per Mitchell County EMS response, the potential impacts on Emergency Medical Services will be minimal**

Are There Any Railroad Crossings On Detour? **N/A**

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

Overhead Utility Lines In Conflict

Power Transmission Lines In Conflict **See Below**

Telephone In Conflict

Cable Lines In Conflict

Fiber Optic In Conflict

Water In Conflict

Sewer In Conflict

Natural Gas In Conflict

Other In Conflict **There are no utilities attached to the bridge;
Final Survey DGN file will be provided**

Duke Energy has a power transmission line the runs along the easterly side of SR 1325.

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: **No**

Comments: **Bean Creek is JS**

Endangered Species In County: Per NHP records, there are no T&E element occurrences within 1.0 mile of the bridge. Biological conclusion for the following is "No Effect": Carolina northern flying squirrel, Bog turtle, Spruce-fir moss spider, Spreading avens, Rock gnome lichen, Bald eagle, Virginia Spirea

Northern Long Eared Bat, Gray Bat, Appalachian Elktoe and Tan Riffleshell: **No Effect**

Trout County : **Yes**

TVA County: **Yes**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **Yes**

Which species: **Trout**

Duration: **Oct 15- April 15**

Permits discussion:

Water Quality Classification: **Class C; Trout**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin:

Riparian Buffer Rules: **None**

French Broad

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:

Architecture:

Archaeology:

No Survey Required

No Archaeology Sites Present

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**

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:

GeoEnvironmental Report for Planning (memo date: June 20, 2016)

Findings:

UST Facilities - no petroleum sites were identified within the project limits.

Hazardous Waste Sites- no Hazardous Waste Sites were identified within the project limits.

Landfills - no apparent landfills were identified within the project limits.

Other GeoEnvironmental Concerns - no other GeoEnvironmental concerns were identified within the project limits.

Anticipated Impacts:

The GeoEnvironmental Section observed no contaminated properties during the field reconnaissance and regulatory agencies' records search.

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells: Comments:

Possible Foundation Type: @ **End Bents** @ **Interior**

Hydraulics

FEMA Approval? **No** State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No** Is Protection Needed?

Are Banks Stable? **Yes** Is Protection Needed?

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **No** Where:

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

Length Of Structure: **50'** Min. Number Of Spans: **1** Span Arrangement: **1 @ 50'**

Waive offset: **No** Cap: **4'** Skewed: **Yes**

Comments:

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: 12'
Temp. Signals: one lane – 10' w/ 1'shy
Alignment: each side (east of exist. bridge)
Alignment; N, E, W, S

Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☐

Minimum Criteria Checklist ☒

ADT (2016): **410 VPD** NHS: 0 Tier: **Sub-regional** Func. Class: **Local**
(per Keith Dixon, TPB,
emailed: 5/14/18)

Bridge Min. Clear Deck Width Recommended by Div.: **24' Out To Out (hold upstream face)**

Roadway lane width **9'** with **3'** shoulders or pave to face of guardrail

Extension of Paved shoulders: **to end of guardrail and taper 8:1**

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**

Min. Pavement Surface Course: **2.5"** (inches): Existing Roadway: **18'**

Pavement Marking: **Paint**

Pavement markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Mod**

Truck Percentage: **6% per BIR**

Reasonable Safe Speed per SIR: **30 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? **Conc.**

Salvageable materials: **None to salvage**

Contact Person/number: **N/A**

Deliver to: **N/A**

Removal of previous structure remnant abutments/piers: **None**

Sequencing priority in construction? **None**

Comments:

- **pave 150' on each side of roadway approach**
- **dead end road**