

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

WBS No.: **17BP.12.R.104**

Field Scoping Meeting Date: **November 7, 2016**

Division: **12**

Location: **On-site**

Route (US/NC/SR): **SR 1200**

County: **LINCOLN**

Project Description: **# 540144 on SR 1200 (Alf Hoover Road) over HOWARDS CREEK**

Tier: **Subregional**

Municipality: **None**

Attendees

	NAME	PHONE	EMAIL
Division Bridge Manager	Steve Rackley	704-480-9034	srackley@ncdot.gov
Division Environmental Supervisor	Trish Beam	704-480-9044	pdbeam@ncdot.gov
Hydraulics Engineer	Paul Fisher	919-707-6720	pfisher@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
US FWS	Andrew Henderson	828- 258 - 3939 x 227	andrew_henderson@fws.gov
Environmental Specialist	Jeff Wyatt	704-480-9041	jlwyatt@ncdot.gov
Div. 12 Bridge Maintenance Technician	Ryan Barbee	704-480-9029	rbarbee@ncdot.gov
L & S - Locating Engineer	Stacy Cooke	704-284-3331	slcooke@ncdot.gov

Existing Features

Feature Bridge: # **540144** on **SR 1200 (Alf Hoover Road)** over **HOWARDS CREEK**

Ex. Bridge Clear Deck Width: **19.16 (Ft.)**

Approach Roadway width: **17 (Ft.)**

(Bridge / Culvert) Length: **109 (Ft.)**

Deck Width (Out To Out): **20.16 (Ft.)**

Water Depth: **2' (Ft.)**

Height Bed-To-Crown: **18' (Ft.)**

Built date: **1953**

Posted: SV: **17** TTST: **20**

Superstructure Type: **Timber deck on salvaged I-Beams** End & Interior Bents: **Timber caps on timber piles**

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

Sufficiency Rating: **29.81** ; DP: **0** School Bus crossings per day: **6 trips**

Posted Speed Limit Vicinity: 45 (mph)

Detour: Off-Site ☒ Stage Construction: ☐ On-site: ☐

If Off-Site, Description Of Detour Route: **SR 1113 – SR 1185 – SR 1187**

Approximate Length Of Detour? **4.5 miles**

Improvements Needed To Road(s) On Detour? **No**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing**

Improvements Needed To Bridges On Detour? **Bridges # 121 or # 140**

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

Are Bridges On Detour Currently Programmed? **Yes - # 121 & # 140**

Sequencing priority in construction? **Bridge No. 540121, 540144 and 540140 shall be constructed consecutively in the aforementioned order**

Are There EMS Or Business Access Issues? **low impacts**

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

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

Overhead Utility Lines In Conflict - **Yes**

Power Transmission Lines In Conflict

Telephone In Conflict - **Yes**

Cable Lines In Conflict

Fiber Optic In Conflict

Water In Conflict

Sewer In Conflict

Natural Gas In Conflict

Other In Conflict –**beaver dam upstream**

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **4**
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: **No** Comments:

Endangered Species In County? **Northern long-eared bat (NLEB); Dwarf-Flowered heartleaf and Michaux's sumac – Unresolved (to be surveyed from March to May 2017 by DEO)**

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 Required:

Water Quality Classification: **Class "C"** 303d: **No**

Coast Guard Permit? **No** Drainage Basin: **Catawba** Riparian Buffer rules: **None**

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:

Historic Archt. Survey? **No Survey** Archaeology Survey ? **NHP Required**

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Any Church, Community Center, Or Other Public Facility Impacts: **No**

Project in on a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No**

Comments: Carolina Thread Trail (Lincoln County portion) Master Plan http://www.carolinathreadtrail.org/wp-content/uploads/2015/08/CTT_Master_Plan_Lincoln_County_Communities_City_of_Lincolnton.pdf.

Provide a greenway crossing on the southern end of the bridge underneath SR 1200 with a minimum 8-foot vertical clearance and a 12-foot wide turf bench placed at a minimum elevation 2 feet above normal water surface under bridge and graded to existing on a 4:1 slope.

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:

Hydraulics

FEMA Approval? **Yes; limited detail study-pressure flow** (MOA)

Is There Unusual Scour Potential? **No**

Is Protection Needed? **STD**

Are Banks Stable? **Yes**

Is Protection Needed? **Yes; bank stabilization under the new bridge from water's edge up to the top of banks looking upstream (north side)**

Appreciable Amount Of Large Debris? **moderate**

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

Superstructure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **130 ft** Min. Number Of Spans: **3**

Span Arrangement: **1@40, 1@50, 1@40**

Waive setback: **No**

Cap: **4'-0"**

Skewed: **75 degrees**

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 Rule Checklist ☒

ADT: **810 SIR**

NHS: No Tier: **Subregional**

Func. Class: **Local, Rural**

Bridge Min. Clear Deck width Recommended by Div.: **27 ' OTO & vertical face rail**

Roadway lane 10 with 3 ' shoulders including 0 paved shoulders

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

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

Min. Pavement Surface Course: **2 1/2"** inches: Existing Roadway: **18' paved**

Pavement marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **III**

Truck Percentage: : **6 %; 3% Duals & 3% TTST** Reasonable Safe Speed: **50 mph**

Liquidated damages: will be imposed after 150 days of closure. Amt: \$ 500 per day

CEI: **DOT**

R/W: **by DBT**

R/W monuments: **Pin & Caps**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

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

Comments:

