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**

T&E species effect: **None, except 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 Archit. 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 ½"** 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:

SR 1436
'12: 1300
SR 1113
NC 6/Pied Spur
'13: 380
SR 1113
NC 6/Pied Spur
NC 6/Pied Spur
SR 1113
NC 6/Pied Spur
121
SR 1113
SR 1204
SR 1185
SR 1203
SR 1194
SR 1193
SR 1765
SR 1200
SR 2017
SR 2019
SR 205
142
SR 1630
144
Howards Creek
136
SR 1192
SR 1194
SR 1200
45
SR 1185
SR 1193
SR 1921
'13: 380
'13: 440
'13: 4000
SR 1201
'13: 1100
SR 1184
SR 1187
SR 1187
'12: 330
'12: 850
SR 1140
SR 1190
SR 1493
SR 1185
'13: 4000
SR 1140
'13: 600