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 1248**

County: **Lincoln**

Project Description: **# 540057 on SR 1248 (South Fork Road) over S. Fork Catawba River**

Tier: **Subregional**

Municipality: **No**

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: **# 540057 on SR 1248 (South Fork Road) over S. Fork Catawba River**

Ex. Bridge Clear Deck Width: **24 (Ft.)** Approach Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **330 (Ft.)** Deck Width (Out To Out): **26.4 (Ft.)**

Water Depth: **8' (Ft.)** Height Bed-To-Crown: **28' (Ft.)**

Built date: **1958** Posted: SV: **34** TTST: **38**

Superstructure Type: **RC on I-Beams** End Bent Material Type: **RC Cap on Steel**

Interior Bent Material Type: **RC Post & Beams**

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

Sufficiency Rating: **20.6 ;** DP: **0** School Bus crossings per day: **4 trips**

Posted Speed Limit Vicinity: 35 **(mph)**

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

If Off-Site, Description Of Detour Route: **SR 1252 – SR 1253 – SR 1243**
Approximate Length Of Detour? **1.8 miles**

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

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

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? **Yes; # 54**

Sequencing priority in construction? **construct # 57 1st & # 54 2nd ; this one is on #54's detour route**

Are There EMS Or Business Access Issues? **low impact**
Are There Any Railroad Crossings On Detour? **No**

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

Overhead Utility Lines	In Conflict
Power Transmission Lines	In Conflict
Telephone	In Conflict
Cable Lines	In Conflict - 36" cable in southwest quadrant
Fiber Optic	In Conflict
Water	In Conflict –**24" WD in northwest quadrant**
Sewer	In Conflict
Natural Gas	In Conflict
Other	

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **_6_ 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: **Dwarf-Flowered heartleaf-located on hill in northeast quadrant**, avoid impacts. Sumac-none; **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: **No** Which species : Duration:

Permits Required:

Water Quality Classification: **Class WS IV** 303d: **No**

Coast Guard Permit? 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 Architecture Survey? **No Survey Required** Archaeology Survey? **NHP**
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: **Yes**

Comments: **Greenway at-Grade; Carolina Thread Trail – per Lincoln County & Catawba Lands Conservancy, requested a pedestrian X-ing with Signal Attenuation –they can not provide any funding for signal. Division doesn't see need to put pedestrian signal installation and would be betterment, no power out there now.**

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** (MOA)

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

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

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **2 at edge of water at low flow**

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

Length Of Structure: **340 ft** Min. Number Of Spans: **4** Span arrangement: **1@70; 3@90**

Waive setback: **No** Skew: **75 degrees**

Note: use all the same size box beams on this bridge; no step cap; will probably need to hold low steel

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: **530 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Local, Rural**

Bridge Min. Clear Deck width Recommended by Div: **33' OTO with Oregon Rail**

Roadway lane width _10'___ with _**6'**__ shoulders including _**4'**_ paved shoulders for bike accommodations

Paved shoulders to be extended to end of construction limits: **– Yes**

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

Min. Pavement Surface Course: **2 ½"** inches: Existing Roadway: 20' **paved**

Pavement markings: **Paint** Pavement Markers: **None**

Will Railroad Involvement Be Required: **No** Method of Clearing: **III**

Truck Percentage: : **_6_ %**; **3% Duals & 3% TTST** Reasonable Safe Speed: _35__ **mph**

Liquidated damages: will be imposed after **__190__**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:

Comments: **shop curve bridge anchor units on east end of bridge; replace bollard & wood entrance with like material; look at possible elimination of drive in southwest quadrant; any greenway disturbance shall be covered with incidental stone.**

South Lincolnton
Southside
South Fork Catawba River
Garland Ln
Pistol Ln
Windmill Ln
Stillview Ln
SR 1225
SR 1222
SR 1443
SR 1449
SR 1235
SR 1787
SR 1431
SR 1250
SR 1253
SR 1249
SR 1251
SR 1252
SR 1424
SR 1606
SR 1243
SR 1423
SR 1622
SR 1248
SR 1237
'13: 3900
'13: 7500
'13: 280
'13: 1000
'12: 730
'12: 450
'13: 6100
'13: 2700
'13: 2500
'12: 970
'13: 7800
'13: 7600
'12: 320
'13: 1000
'12: 610
'13: 6700
'12: 1000
'12: 530
'13: 1500
'13: 730
150
160
12
321
44
35
55
57
913 ft
800 ft