

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

TIP No.: WBS No.: Field Scoping Meeting Date: 10/19/16
 17BP.11.R.135

Division: **11** Location: **On-site**

Route (US/NC/SR): **SR1107** County: **CALDWELL**

Project Description: **Bridge No. 130262 over Gunpowder Creek (Old Mill Pond) on SR1107 (Falls Avenue)**

Tier: **SUBREGIONAL** Funding: **HFB**

Municipality: **Granite Falls**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Jami Guynn	336-903-9220	jcguyenn@ncdot.gov
Division Environmental Officer	Heath Slaughter	336-903-9202	hslaughter@ncdot.gov
Division L&S	Landon Wagoner	336-903-9501	rlwagoner@ncdot.gov
Hydraulics Engineer	Marc Shown	919-707-6751	mshown@ncdot.gov
Hydraulics Engineer	Rusty Lassiter	919-707-6732	rlassiter@ncdot.gov
PPU	Rachel Evans	919-707-6609	rcevans@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
USFWS	Andrew Henderson	828-258-3939 ext 227	Andrew_henderson@fws.gov

Existing Features

Feature Bridged: **130262 over Gunpowder Creek (Old Mill Pond) on SR1107 (Falls Avenue)**

Ex. Bridge Clear Deck Width: **24.0 (Ft.)**

Roadway width: **22 (Ft.)**

(Bridge / Culvert) Length: **401 (Ft.)**

Deck Width (Out To Out): **24.5 (Ft.)**

Water Depth: **15 (Ft.)**

Height Bed-To-Crown: **28 (Ft.)**

Year Built: **1949**

Posted: **SV 23**

TTST: **31**

Superstructure: **4**

Abutment: **5**

Pier Type:

Temp. Shored: **No**

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

PRI: **52.78**

DP: **12.00**

SR: **19.71**

School Bus: crossings per day: **No response**

Posted Speed Limit Vicinity: **55 mph on North side, 35 mph on South Side. Need speed limit posted down on north side to 45 mph to accommodate sidewalk.** Design speed will be 50 mph

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1754 - SR 1753 - SR 1002 - SR 1109 - US 321**

Approximate Length Of Detour?

4.7 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

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

Power Transmission Lines

In Conflict

Telephone

In Conflict

Cable Lines

In Conflict

Fiber Optic

In Conflict

Water

In Conflict

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: **No** Comments:

Endangered Species In County: **Bog turtle, Carolina northern flying squirrel, Northern long-eared bat, Virginia big-eared bat, Spruce-fir moss spider, Dwarf-flowered heartleaf, Heller's blazing star**
T&E species effect: **May affect, but the activity is excepted under the Biological Opinion on NLEB**
Final 4d Rule: **Northern long-eared bat**

Trout County: **No** TVA County: **No**

CAMA County: **No** Primary Nursery Area: **No**

Moratoria: **No** Which species: Duration:

Permits discussion: **NW 3, open water impacts anticipated**

Water Quality Classification: **WS-IV** 303d: **Yes, Benthos (Nar, AL, FW)**

Coast Guard Permit? **No** Drainage Basin: **Catawba** 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: **NHPA**

Archaeology: **NSR**

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: **Yes-Western Piedmont Bicycle Route**

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? -----

Comments:

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

Comments:

Possible Foundation Type:

End Bents:

Interior Bents:

Hydraulics

FEMA Approval? **Detailed Study (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: **None**

Structure Type: **Bridge** If Bridge: **Prestressed**

If girder; why? **To decrease the number of spans**

Length Of Structure: **400'** Min. Number Of Spans: **4**

Span Arrangement: **4@100'**

Waive offset: **yes both sides** EB Cap: **4'-0"**

Skewed: **90**

- **shift proposed piers to 5' left to avoid conflicts with existing piers and abutments**

- **sloping abutments, 2 bar rail both sides; there are too many factors**

- **Sidewalk will be provided on the side of boat ramp (east side)**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

Environmental Document Prepared by DEO:

Low Impact Data Spreadsheet ☒

Minimum Criteria Checklist ☐

ADT: **5300 per BIR**

NHS: **No**

Tier: **SUBREGIONAL**

Func. Class: **Major Collector**

Bridge Min. Clear Deck Width Recommended by Div.: **40.08' out to out**

Roadway lane width: **12'** with **6'** shoulders, including **4'** paved shoulders

Extension of Paved shoulders: end of **construction** limits and **8:1 taper to travel lane/paved shoulder;**
Symmetrical taper to existing paved shoulder, carry through driveways

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

Min. Pavement Surface Course: **3"**

Existing Roadway: **19'**

Pavement Marking: **Paint**

Pavement Markers: **Snowplowable**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II modified**

Truck Percentage: **7 % per BIR**

Reasonable Safe Speed per SIR: **55 mph**

Liquidated damages: will be imposed after **180** days of closure/construction. Amt: **\$1000** per day

CEI by?

NCDOT

R/W by?

DBT

R/W monuments? **Pin & Cap**

Salvageable materials: **ALL STEEL I-BEAMS, DIAPHRAMS, PLATES, ETC.**

(32) 24" I-BEAMS, (16) 16" I-BEAMS, (ALL) DIAPHRAMS, (96) PLATES, (11) CONCRETE CAPS, AND (ALL) GUARDRAIL ASSEMBLIES ON BRIDGE AND ROADWAY (POST, BLOCKS, BOLTS, ETC.)

Contact Person/number: **ANDREW GLASCO 336-903-9198 - OFFICE 336-927-7894 - CELL**

Deliver to: **HUDSON BRIDGE MAINTENANCE YARD - 481 PLEASANT HILL ROAD, LENOIR NC 28645**

Removal of previous structure remnant abutments/piers: **No**

Sequencing priority in construction? **Emergency Replacement due to interior bent failure**

Comments: **The Speed limit on the North Side of the existing bridge will need to be posted down to 45 mph to accommodate sidewalk within the project limits. Currently working with the Division to begin this request. Relocate driveway in the SW quadrant outside the proposed GR limits.**

