

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

WBS No.: **17BP.11.R.119**

Field Scoping Meeting Date: **Dec. 9, 2015**

Division: **11**

Location: **On-Site**

Route (US/NC/SR): **SR 1356**

County: **Caldwell**

Project Description: **Bridge No. 130123 on SR 1356 (Old Johns River Road) over Elijah Estes Mill Creek**

Tier: **Subregional**

Municipality: **near Collettsville, NC**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Jamie Guynn	(336) 903-9220	jcgwynn@ncdot.gov
Division Environmental Off.	Heath Slaughter	(336) 903-9202	hslaughter@ncdot.gov
Hydraulics Engineer	Marc Shown	(919) 707-6751	mshown@ncdot.gov
Hydraulics Engineer	Rusty Lassiter	(919) 707-6732	rlassiter@ncdot.gov
PPU	Pam Williams	(919) 707-6608	prwilliams@ncdot.gov
PPU	Paul Garrett	(919) 707- 6633	pgarrett@ncdot.gov
USACE*	Steve Kichefski	(828) 271-7980	Steven.L.Kichefski@usace.army.mil
DENR-DWR*	Dave Wanachu	(336) 771-4951	Dave.wanachu@ncdenr.gov
USFWS*	Andrew Henderson	(828) 258-3939	andrew_henderson@fws
NCWRC*	Marla Chambers	(704) 984-1070	Marla.chambers@ncwildlife.org
Division Utility Coordinator*	Susan Huffman	(336) 903-9137	sohuffman@ncdot.gov
Asst. Bridge Program Mgr.	Mark Johnson		

*invited but could not attend.

Existing Features

Feature Bridged: **130123 over Elijah Estes Mill Creek on SR 1356 (Old Johns River Road)**

Ex. Bridge Clear Deck Width: **15'-10"(Ft.)** Roadway width: **2 @ 9' = 18" unpaved (Ft.)**

(Bridge / Culvert) Length: **26 (Ft.)** Deck Width (Out To Out): **18 (Ft.)**

Water Depth: **1 (Ft.)** Height Bed-To-Crown: **7'6" (Ft.)**

Year Built: **1958** Posted: SV **19** TTST: **25**

Superstructure: **Timber Deck on** Abutment: **Timber** Pier Type:

I-Beam; End Bents: 1@25'10"

Temp. Shored: **No**

Historic High Water (Elev. To The Existing Structure): **9' (+ / -) Ft.**

PRI: **50.366** DP: **0** SR: **32.52** School Bussing crossings per day? **1 bus for a total of 2 crossings per day**

Posted Speed Limit : **55 (mph) statutory**

Detour Off-Site ☒ Stage Construction ☐ New Alignment ☐ On-site ☐

If Off-Site, Description Of Detour Route: **US Highway 90**

Approximate Length Of Detour? **3.82 (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? **Dependent on how equipment is brought in and the size**

Are future plans for upgrading this roadway either at or in the vicinity of this project?
Possible, but dependent on budget

Are Bridges On Detour Currently Programmed? **No**

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 **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

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: Virginia big-eared bat; Carolina northern flying squirrel;

Spruce-fir moss spider; Bog Turtle; Dwarf-flowered Heartleaf; Heller's Blazing Star; Northern long-eared bat

T&E species effect: Virginia Big-Eared Bat: **No Effect**

Northern long-eared bat (NLEB) – **No Effect**

Trout County : **Yes**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Water Quality Classification: **Class B**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Catawba**

Riparian Buffer Rules: **No**

Is The Project Site In Or Near Any Of The Following:

National Forest: **Pisgah National is approx. 400' south, but bridge is not adjacent to park land**

Wildlife Refuge/Gamelands: **No**

State, County, Or Local Park: **No**

Wild And Scenic River: **No**

Airport: **No**

Recreation Of Power Generation: **No**

Water Supply Reservoir: **No**

Nutrient Sensitive Waters: **No**

Public Use Boat Ramp: **No**

Cemeteries: **No**

VAD-Farmland Preservation: **No**

Known Or Potential Historic Properties In The Area:

Architecture: **survey required-pending**

Archaeology: **No**

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: **None**

Comments: **Bridge is near Pisgah National Forest – Property Owners:**

2605 Old Johns River Road – Owners: S. Chester / D Franklin – Parcel 1922

2619 Old Johns River Road – Owners: D & A Koontz –Parcel 4132

Geotechnical

Are There Any Historical And/Or Vibration Sensitive Structures Near By: **Yes**

Comments: **houses and out buildings nearby with cinder block supporting.**

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: **No**

Comments:

Possible Foundation Type:

Hydraulics

FEMA Approval? **No**

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Standard**

Are Banks Stable? **Yes**

Is Protection Needed? **Standard**

Appreciable Amount Of Large Debris? **No**

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

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

Length Of Structure: Min. Number Of Spans: Span Arrangement:

Waive offset: Cap: Skewed: **N/A**

Comments: **25'-2" x 7'-0" Aluminum Box Buried 1.0' with Low Flow Channel and Headwalls; hold headwall at existing upstream face of bridge.**

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:
Temp. Signals: one lane w/ signals;
Alignment: N, E, W, S or two lanes CRW;
Alignment;

Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☒

ADT: **200 per SIR** NHS: **NO** Tier: **Sub-Regional** Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **N/A**

Roadway lane width **9'** with **4'** shoulders and **extend shoulders to eliminate guardrail**

Extension of shoulders: **extend 50' from the outermost culvert wing wall in each direction and then taper to the existing shoulder on an 8:1 taper on both sides of the proposed culvert**

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

Min. Pavement Surface Course: **proposed Gravel** Existing Roadway: **12' Gravel**

Pavement Marking: **None** Pavement markers: **None**

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

Truck Percentage: **6% per PDR** Reasonable Safe Speed per SIR: **30 mph**

Liquidated damages: will be imposed after **14** days of closure/construction. Amt: **\$ 350** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin and caps to be provided & installed by DBT**

Salvageable materials: All steel I-Beams

Contact Person/number: **David Wayne (336) 903-9124**

Deliver to: **481 Pleasant Hill Road, Lenoir, 28645**

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

Sequencing priority in construction? **Summer construction to avoid low flow bridges flooding during spring and fall. Avoid any impact to USFS property.**

Comments: **Replace with culvert and offsite detour. Bridge postings for bridges along SR 1356 are: 1) 130240 = 20 SV/ 27 TTST 2) 130317 = 18/24 3) 130184 = Not Posted 4) 130185 = 22/30 5) 130186 = 17/23 6) 130275 = 19/26 7) 130263 = Not Posted**

