

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

WBS No.: **17BP.11.R.93**

Field Scoping Meeting Date: **May 5, 2014**

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR1508**

County: **WATAUGA**

Project Description: **Bridge No. 940153 over ELK CREEK on SR1508 (Elk Creek Road)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Jami Guynn	336-903-9220	jcguynn@ncdot.gov
Hydraulics Engineer	Randy Henegar	919-707-6726	rhenegar@ncdot.gov
Hydraulics Engineer	Marc Shown	919-707-6751	mshown@ncdot.gov
Hydarulics Engineer	Rusty Lassiter	919-707-6732	rlassiter@ncdot.gov
TPMU	Virginia Mabry	919-707-6604	vmabry@ncdot.gov
Bridge Management	Paul Garrett	919-707-6457	pgarrett@ncdot.gov
NCWRC	Marla Chambers	704-984-1070	Marla.chambers@ncwildlife.org

Existing Features

Feature Bridged: **940153 over ELK CREEK on SR1508 (Elk Creek Road)**

Ex. Bridge Clear Deck Width: **24 (Ft.)**

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

(Bridge / Culvert) Length: **46 (Ft.)**

Deck Width (Out To Out): **24.10 (Ft.)**

Water Depth: **1(Ft.)**

Height Bed-To-Crown: **12(Ft.)**

Year Built: **1967**

Posted: SV **32**

TTST: **36**

Superstructure: **ST M-BM ;**

Abutment: **TM**

Pier Type: **NONE**

Temp. Shored: **No**

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

PRI: **59.4** DP: **2.5** SR: **23.2**

School Bussing crossings per day: **N/A**

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

Detour Off-Site ☐

Stage Construction ☒

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **N/A**

Approximate Length Of Detour? **24 (Miles) per BIR**

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 Bridges On Detour Currently Programmed? **N/A**

Are There EMS Or Business Access Issues? **N/A**

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

No utilities observed

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **0 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: **Bog turtle, Carolina northern flying squirrel, Virginia big eared bat, Spruce-fir moss spider, Blue Ridge goldenrod, Heller's blazing star, Roan mountain bluet, Spreading avens, Rock gnome lichen, Northern long-eared bat**

T&E species effect: **No**

Trout County : **Yes**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Permits: **NWP #3, TVA**

Water Quality Classification: **B; Tr**

303d: **No**

Hatchery Supported

Coast Guard Permit? **No**

Drainage Basin: **Yadkin**

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 Of Power Generation: **No**

Water Supply Reservoir: **No**

Nutrient Sensitive Waters: **No**

Public Use Boat Ramp: **No**

Cemeteries: **No**

Known Or Potential Historic Properties In The Area: **No**

Architecture: No Survey Required

Archaeology: No Historic Properties Affected

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, High Country Regional Bike Plan (2014) – 4' paved shoulder**

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**

Hydraulics

FEMA Approval? **Limited Detail Study** State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **Standard**
Are Banks Stable? **No** Is Protection Needed? **Standard**
Appreciable Amount Of Large Debris? **No**
Placement Of Bents In The Water Be Allowed: **No** Where:

Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **70** Min. Number Of Spans: **1** Span Arrangement:
Waive offset: **No** Cap: **4'** Skewed:

Vertical abutments. Extension of wingwall needed in NE and SW quadrant.

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☐ Stage: ☒ New Alignment: ☐ On-site detour ☐

Clear roadway width (CRW):11'
Temp. Signals: Yes
Alignment: North (downstream)
9' lane with 1' shy each side
Stage speed: 25mph

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

ADT: **300/ vpd** NHS: **0** Tier: **Sub-Regional** Func. Class: **Local**
(TEAAS/2014)

Bridge Min. Clear Deck Width Recommended by Div.: **30' OTO**

Roadway lane width **_9_'** with **6'** wide shoulders **4' paved shoulder for bike accommodations**

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: **17**

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

Will Railroad Involvement Be Required: Method of Clearing: **III**

Truck Percentage: : **6 % per BIR;** Reasonable Safe Speed per SIR: **35** mph

Liquidated damages: will be imposed after **_120_** days of closure/construction. Amt: **\$ 500** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **DBT to provide & install Pin/Cap**

Salvageable materials: **ALL STEEL I BEAMS, DIAPHRAMS, BEARING PLATES, ETC., AND GUARDRAIL, POSTS, WHEEL GUARD, ETC. AND ALL TIMBER CAPS AND SUBCAPS AND STEEL PLANK FLOOR (TRY AND REMOVE TO KEEP IN FULL SHEETS)**

Contact Person/number: **David Scott (828) 268-6062**

Deliver to: **BOONE BRIDGE MAINTENANCE YARD - 1989 NC 194N, BOONE NC 28607**

Removal of previous structure remnant abutments/piers: **Leave on Upstream.**

Sequencing priority in construction? **Highest priority**

Comments: **Retain existing footers. Key rip rap into existing footers. Pave SR 1570 to furthest radii.**

Watauga 940153

