

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

TIP No.: **B-5659** WBS No.: **45614.1.1** Field Scoping Meeting Date: **Feb. 17, 2016**
Division: **4** Location: **On-site**
Route (US/NC/SR): **SR 1738** County: **JOHNSTON**
Project Description: **Bridge No. 0432 over Cattail Creek on SR 1738 (Eatmon Rd)**
Tier: **SUB-REGIONAL** Funding: **STI**
Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Wade Harper	252-237-6164	waharper@ncdot.gov
Division Environmental Officer	Chad Coggins	252-237-6164	ccoggins@ncdot.gov
Div. 4 Asst. Resident Engineer	Rob Pate	252-459-2129	repate@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6734	jlindsey@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
USACE	Tom Steffens (did not attend)	910-251-4615	Thomas.A.Steffens@usace.army.mil
NCDEQ-DWR	Rob Ridings (did not attend)	919-707-8786	Rob.ridings@ncdenr.gov
NCWRC	Travis Wilson (did not attend)	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan (did not attend)	919-856-4520	Gary_jordan@fws.gov
Locations and Surveys	Derek Bradner	336-334-5085	jbradner@ncdot.gov
Locations and Surveys	Paul Woodard	252-234-1118	pwoodard@ncdot.gov

Existing Features

Feature Bridged: **500432 over Catail Creek on SR 1738 (Eatmon Rd)**

Ex. Bridge Clear Deck Width: **19.58 (Ft.)**

Roadway width: **19 (Ft.)**

(Bridge / Culvert) Length: **33 (Ft.)**

Deck Width (Out To Out): **20 (Ft.)**

Water Depth: **6 (Ft.)**

Height Bed-To-Crown: **13 (Ft.)**

Year Built: **1955**

Posted: **SV 99**

TTST: **99**

Superstructure: **NEW TIMBER
FLOOR/TIMBER JOIST**

Abutment:
**EBT1,BT1,BT3:STLCAP/STLPL
S;EBT2&BT2:TIMCAP/TIMPILE**

Pier Type:
**EBT1,BT1,BT3:STLCAP/STLPL
S;EBT2&BT2:TIMCAP/TIMPILE**

Temp. Shored: **Yes**

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

PRI: **62.97**

DP: **1.5**

SR: **6**

School Bussing crossings per day: **None**

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- Dead end road**

Approximate Length Of Detour? **N/A**

Improvements Needed To Road(s) On Detour? **N/A**

Div. Traffic Eng. Recommend Off-site detour signing? **N/A**

Improvements Needed To Bridges On Detour? **N/A**

Are future plans for upgrading this roadway either at or in the vicinity of this project? **No**

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

Are There EMS Or Business Access Issues? **No**

Are There Any Railroad Crossings On Detour? **N/A**

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

Overhead Utility Lines ~~In Conflict~~

Power Transmission Lines ~~In Conflict~~

Telephone In Conflict Suspended from bridge

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: **Yes** Comments:

Endangered Species In County: Red cockaded woodpecker, Dwarf Wedgemussel, Tar River spiny mussel, Michaux's sumac

T&E species effect: **No effect for all**

Trout County: **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Permits discussion:

Water Quality Classification: **C; NSW**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Neuse**

Riparian Buffer Rules: **Yes**

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: **Yes**

Public Use Boat Ramp: **No**

Cemeteries: **No**

VAD/Farmland Protection: **No**

Game Lands: **No**

Known Or Potential Historic Properties In The Area:

No

Architecture: No Survey Required

Archaeology: No Survey Required

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: **No**

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? **Yes, Limited** (MOA)

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Std. End Bent Protection**

Are Banks Stable? **Yes**

Is Protection Needed? **Std. End Bent Protection**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **Yes**

Where: **Not in center 1/3 of channel**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **80'**

Min. Number Of Spans: **2**

Span Arrangement: **45'-35'**

Waive offset: **No**

EB Cap: **2'-6"**

Skewed: **90**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☐

Stage Construction ☐

New Alignment ☐

On-site ☒ 1-lane with signals; 14'
CRW, 12' lane; 1-ft shy each side.
Alignment can be east or west side

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☒

Minimum Criteria Checklist ☐

ADT: **130 per SIR**

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Local**

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

Roadway lane width: 10' with 3' 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: **3"**

Existing Roadway: **20**

Pavement Marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Modified**

Truck Percentage: **6 % per BIR**

Reasonable Safe Speed per SIR: **30 mph**

Liquidated damages: will be imposed after 180 days of closure/construction Amt: \$ 500 per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Concrete**

Salvageable materials: **No**

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

Sequencing priority in construction? **No**

Comments: **ACOE is okay with detour on either side. Can use temporary pipe or bridge. Use fabric under detour fill. Temp. bridge on east side – 55' with vertical abutments. Temp. bridge on west side – 85' with vertical abutments. Temp. pipe – 2@108". Design Speed for Detour is no less than 20mph. Stripe to match existing lane widths.**