

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Return with Comments to Division by 8/1/13 (Two weeks prior to FSM)

TIP No.: **B-4777**

FIELD SCOPING MEETING DATE: 8/15/13

DIVISION: **13**

LOCATION: Division 13 Office

COUNTY: **Madison**

ROUTE (US / NC / SR): **NC 251**

PROJECT DESCRIPTION: **Replace Bridges 8 & 9 on NC 251 over the Ivy River**

FUNCTIONAL CLASSIFICATION: **Major Collector**

TIER: **Regional**

MPO / RPO AREA: **Land of Sky RPO**

MUNICIPALITY: **N/A**

ATTENDEES	NAME (PRINT)	PHONE No	E-MAIL
DIVISION CONSTRUCTION ENGINEER	Rick Tipton	828-251-6171	rtipton@ncdot.gov
AREA BRIDGE CONSTRUCTION ENGINEER	Cameron Cochran	828-777-2690	acochran@ncdot.gov
DIVISION BRIDGE MAINTENANCE ENGINEER	Chris Medlin	828-298-1128	cdmedlin@ncdot.gov
DIVISION UTILITY COORDINATOR	Robert Briggs	828-251-6171	rbriggs@ncdot.gov
DIVISION ENVIRONMENTAL OFFICER	Roger Bryan	828-251-6171	rdbryan@ncdot.gov
DIVISION RIGHT OF WAY REPRESENTATIVE	Bob Haskett	828-274-8435	rhaskett@ncdot.gov
HYDRAULICS REPRESENTATIVE	Karen Gulledge	919-707-6723	khgulledge@ncdot.gov
PDEA REPRESENTATIVE	Brittney Kelly	(919) 707-6013	bdkelly@ncdot.gov
NEU REPRESENTATIVE	Bill Barrett	919-707-6103	wabarrett@ncdot.gov
GEOTECHNICAL REPRESENTATIVE	Eric Williams	704-455-8902	ewilliams@ncdot.gov
STRUCTURE DESIGN REPRESENTATIVE	Quang Nguyen	919-707-6546	qnguyen@ncdot.gov
ROADWAY DESIGN REPRESENTATIVE	Kevin Moore	919-707-6287	kmoore@ncdot.gov
LOCATION AND SURVEYS REPRESENTATIVE	Richard Hensley	828-667-9616	rhensley@ncdot.gov
WORK ZONE TRAFFIC CONTROL REPRESENTATIVE	Jay Woolard	919-662-3577	jwoolard@ncdot.gov

DIVISION (COMPLETED BY DIVISION STAFF AND SENT WITH THE FSM LETTER)**EXISTING FEATURES**FEATURE BRIDGED: **560008**(BRIDGE / CULVERT) LENGTH **238 (FT.)**DECK WIDTH (OUT TO OUT) **33.4 (FT.)**WATER DEPTH: **4 (FT.)**HEIGHT BED-TO-CROWN: **28 (FT.)**PRIOR SURVEY DATE: **2012**POSTED: SV **32** TTST: **36**STRUCTURE TYPE: **REINFORCED CONCRETE**SPAN TYPE: **TEE BEAM**SUFFICIENCY RATING: **2**POSTED SPEED LIMIT IN PROJECT VICINITY: **45 (MPH / STATUTORY 55MPH)**DETOUR: OFF-SITE ----- ON-SITE/ALIGNMENT **YES** STAGE CONSTRUCTION -----

IF DETOUR IS OFF-SITE, PROVIDE DESCRIPTION OF DETOUR ROUTE

APPROXIMATE LENGTH OF DETOUR? **5 (MILES)**IMPROVEMENTS NEEDED TO ROAD ON DETOUR? **N/A**IMPROVEMENTS NEEDED TO BRIDGES ON DETOUR? **N/A**ARE BRIDGES ON DETOUR CURRENTLY PROGRAMMED ON TIP? **N/A** COMMENTS:ARE THERE EMS, SCHOOL, OR BUSINESS ACCESS ISSUES? **NO** COMMENTS:ARE THERE ANY RAILROAD CROSSINGS ON DETOUR? **NO** COMMENTS:SHOULD WORK ZONE PEDESTRIAN ACCESS BE MAINTAINED DURING CONSTRUCTION? **N/A**
REASONS:IMPACT RATING TO UTILITIES **LOW**OVERHEAD UTILITY LINES **YES** IN CONFLICT **NO**POWER TRANSMISSION LINES **NO** IN CONFLICT **N/A**TELEPHONE / CABLE LINES **YES** IN CONFLICT **NO**FIBER OPTIC **NO** IN CONFLICT **N/A**WATER **NO** IN CONFLICT **N/A**SEWER **NO** IN CONFLICT **N/A**NATURAL GAS **NO** IN CONFLICT **N/A**OTHER IN CONFLICT **N/A**BASED ON THE PAST HISTORY NEAR THIS PROJECT SITE, WHAT IS THE ESTIMATED TIME REQUIRED TO
COMPLETE UTILITY ADJUSTMENTS **6-12 MONTHS**IS THERE ANY FUTURE UTILITY CONSTRUCTION ANTICIPATED IN THE PROJECT AREA **NO**IS A FEMA BUY-OUT PROPERTY BEING IMPACTED **NO**

HYDRAULICS UNIT (COMPLETED BY HYDRAULICS UNIT STAFF PRIOR TO THE FSM)

WILL THIS PROJECT REQUIRE A FEMA PERMIT? **YES (MOA)**

IS THERE UNUSUAL SCOUR POTENTIAL? **NO** IS PROTECTION NEEDED? **NO**

ARE BANKS STABLE? **Yes** IS PROTECTION NEEDED? **Yes (Standard)**

DOES STREAM CARRY APPRECIABLE AMOUNT OF LARGE DEBRIS? **No**

WILL THE PLACEMENT OF BENTS IN THE WATER BE ALLOWED **Yes** COMMENTS

WERE HYDRAULIC ALTERNATIVES BESIDES A BRIDGE CONSIDERED **No** COMMENTS

STRUCTURE TYPE: **BRIDGE**

BRIDGE TYPE: **GIRDER**

IF GIRDER, WHY? Truck traffic, arterial route, and horizontally curved alignment

POSSIBLE SPAN LAYOUT: **1@75', 1@100', 1@65'**

WAIVE OFFSET: **No**

END BENT CAP DEPTH: **4'-0"**

SKEWED: **Yes**

NOTES: Cut off existing piers at top of footing

GEOTECHNICAL UNIT (COMPLETED BY GEOTECHNICAL UNIT PRIOR TO THE FSM)

EXISTING FOUNDATION REPORTS? **Yes** IF SO, ATTACH.

KNOWN GEOLOGICAL FEATURES IN AREA WHICH MAY AFFECT DESIGN **None**

ARE PERMITS NEEDED FOR INVESTIGATIVE WORK AT SITE **No** COMMENTS:

ARE THERE ANY HISTORICAL AND / OR VIBRATION SENSITIVE STRUCTURES NEAR BY **No** COMMENTS:

ARE THERE ANY KNOWN LANDFILLS AND / OR GEOENVIRONMENTAL HAZARD SITES AT OR WITHIN CLOSE PROXIMITY TO THE PROJECT SITE **No** COMMENTS:

DEPTH OF WEATHERED ROCK OR ROCK BELOW STREAMBED **EL. 1660 (FT.)**

ARE ANY IMPACTS ANTICIPATED TO NATURAL SPRINGS OR ARTESIAN WELLS **No** COMMENTS:

POSSIBLE FOUNDATION TYPE: **DRILLED PIERS**

PD & EA AND NEU UNIT (COMPLETED BY PDEA STAFF PRIOR TO THE FSM)

TRAFFIC FORECAST (AS PREPARED BY TRANSPORTATION PLANNING BRANCH AND PROVIDED BY PDEA)

Accident History: **4**-L- BASE YEAR (2013) ANNUAL AVERAGE DAILY TRAFFIC **1100** % TRUCKS/DUALS **1/5**-L- DESIGN YEAR (2040) ANNUAL AVERAGE DAILY TRAFFIC **1400** % TRUCKS/DUALS **1/5**

SHOW -Y-LINE TRAFFIC IF APPLICABLE FOR BRIDGES OVER / UNDER.

-Y- BASE YEAR (20) ANNUAL AVERAGE DAILY TRAFFIC % TRUCKS/DUALS

-Y- DESIGN YEAR (20) ANNUAL AVERAGE DAILY TRAFFIC % TRUCKS/DUALS

TRAFFIC SAFETY (AS PREPARED BY THE TRAFFIC SAFETY UNIT AND PROVIDED BY PDEA)

OPERATING SPEED: **55 MPH**CRASH RATE: **4**WETLANDS AT SITE **No** COMMENTS:KNOWN ENDANGERED SPECIES POPULATIONS IN AREA **Yes** COMMENTS: **MANLTAA FOR NLEB & GRAY BAT, NCDOT PREPARING CONCURRENCE LETTER**TROUT OR TVA COUNTY **Yes** COMMENTS: **TROUT COUNTY BUT NOT TROUT WATERS**CAMA COUNTY **No** PRIMARY NURSERY AREA **No**MORATORIA ----- IF YES-DURATION **BRIDGE DEMOLITION BETWEEN NOVEMBER 1 AND MARCH 30 ANY GIVEN YEAR.**COMMENTS: **per WRC letter dated July 30, 2013.**IS WATER FEATURE CLASSIFIED AS A WILD AND SCENIC RIVER **No** COMMENTS:WHAT IS THE WATER QUALITY CLASSIFICATION FOR THIS PROJECT: **Ivy Creek: C; French Broad River: B**WILL A COAST GUARD PERMIT BE REQUIRED **No** COMMENTS:

IS THE PROJECT SITE IN OR NEAR ANY OF THE FOLLOWING:

NATIONAL FOREST **No**WILDLIFE REFUGE **No**STATE, COUNTY, OR LOCAL PARK **No**AIRPORT **No**A LAKE FOR RECREATION OR POWER GENERATION **No**WATER SUPPLY RESERVOIR **No**NUTRIENT SENSITIVE WATERS **No**PUBLIC USE BOAT RAMP **No**CEMETARIES **No**WILL A FEDERAL ENERGY REGULATORY COMMISSION PERMIT BE REQUIRED **No**IS THE PROJECT AREA KNOWN FOR POTENTIAL INDIAN, COLONIAL, OR OTHER ARCHAEOLOGICAL SITES
NoKNOWN OR POTENTIAL HISTORIC PROPERTIES IN THE AREA **No**IS THE BRIDGE STRUCTURE ITSELF, OR ANY PART THEREOF, CONSIDERED HISTORIC **No**

WILL THE PROJECT IMPACT A CHURCH, COMMUNITY CENTER, OR OTHER PUBLIC FACILITY -----

IS THIS PROJECT ON A STATEWIDE BICYCLE ROUTE OR A LOCAL NON-MARKED BICYCLE ROUTE **Local**

ANY CLARIFICATION OR COMMENTS ON ITEMS ABOVE: **Bicycle Route - not DOT route; Blue Ridge Bike Plan designates as "general bike plan corridor"; 303(d) waters; Riverview MBC; 3 buses/day**

ROADWAY DESIGN UNIT (COMPLETED BY ROADWAY DESIGN UNIT PRIOR TO FSM)

ALIGNMENT: EXISTING HORIZONTAL **Good**

EXISTING VERTICAL **Fair**

POSSIBLE DESIGN STANDARDS **AASHTO**

POSSIBLE DESIGN SPEED **55 (MPH)**

POSSIBLE DESIGN EXCEPTIONS **Yes** COMMENT **Utilitizing existing vertical geometrics (35mph) possible design speed exception**

APPROXIMATE PROJECT LENGTH **2100 (FT)**

NUMBER AND WIDTH OF LANES **ONE LANE IN EACH DIRECTION, 12'**

SHOULD THIS PROJECT HAVE CURB AND GUTTER OR SHOULDER APPROACHES **Shoulders**

COMMENT **Expressway gutter can be used at cut locations to minimize the cut section**

TOTAL SHOULDER WIDTH **6' (FT)**

PAVED SHOULDER WIDTH **4 (FT)** PAVE TO GUARDRAIL

CLEAR ROADWAY ON STRUCTURE minimum **32' (FT)**

WILL EXISTING DRIVEWAYS, BUSINESS ACCESS, -Y- LINES OR RAMPS NEED TO BE RELOCATED **Possibly**

COMMENTS: **Minor realignments to get the intersections away from the bridge**

IS THERE ADDITIONAL RIGHT OF WAY / PERMANENT EASEMENTS / TEMPORARY EASEMENTS ANTICIPATED FOR CONSTRUCTION **Yes** COMMENT

ARE ANY RETAINING WALLS ANTICIPATED

IS THERE A POSSIBILITY OF RELOCATEES **No** IF SO, DESCRIBE

ADDITIONAL COMMENTS: **Clear Roadway width on structure may be wider than 32' due to structure being on curve, possibly needed on low side for spread.**

STRUCTURE DESIGN UNIT (COMPLETED BY THE STRUCTURE DESIGN UNIT PRIOR TO THE FSM)

POSSIBLE SUPERSTRUCTURE:

TYPE: **GIRDER,**

NUMBER OF SPANS **3**

LENGTH OF SPANS **240 (FT)**

WILL RAILROAD INVOLVEMENT BE REQUIRED **No**

WILL STRUCTURE REQUIRE DESIGN FOR VESSEL IMPACT OR FENDER SYSTEM **No**

DESCRIPTION:

ARE ANY RETAINING WALLS ANTICIPATED

CONSTRUCTABILITY AND ACCESS (DISCUSSED AT THE FSM BY DIVISION BRIDGE MANAGER)

METHOD OF ACCESS:

TOP-DOWN **No**

(WORK BRIDGE / CAUSEWAY) PROPOSED LOCATION RELATIVE TO EXISTING STRUCTURE:

PROPOSED LENGTH (FT) WIDTH (FT)

MATERIAL AND EQUIPMENT ACCESS TO SITE:

TRACTOR-TRAILER ACCESS **Yes** BARGE ACCESS ----- HEAVY EQUIPMENT ACCESS **Yes**

POSTED ROADS AND POSTED BRIDGES IN VICINITY THAT MAY AFFECT ACCESS **No**

ARE CONSTRUCTION STAGING AREAS AVAILABLE NEAR SITE **Yes**

ANY ANTICIPATED AREAS OF TEMPORARY SHORING REQUIRED **No**

ADDITIONAL COMMENTS:

ITEMS TO BE RESOLVED

LIST ALTERNATIVES TO BE STUDIED BY ROADWAY DESIGN:

- 1) **Existing Pavment Markings L Line - POLYUREA; Y Lines - PAINT**
- 2) **Existing Pavement Markers: L Line - Snowplowable**
- 3)

DESCRIBE ANY DISCUSSION REGARDING HOW THE ALTERNATIVES WERE DECIDED UPON, WHY CERTAIN ALTERNATIVES WERE REJECTED, AND IF AN ALTERNATIVE WAS SELECTED, WHY.

CHECK ONE

TYPE OF ENVIRONMENTAL DOCUMENT (CHECK ONE)

CATEGORICAL EXCLUSION (CE) ☐

PROGRAMMATIC CATEGORICAL EXCLUSION (PCE) ☐

THE OPTIMUM LET DATE FOR THIS PROJECT IS:

ADDITIONAL COMMENTS AND/OR UNRESOLVED ISSUES TO BE ADDRESSED: