

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

WBS: **17BP.9.R.46** Bridge No.: **290050** Field Scoping Meeting Date: **October 26, 2016**
Division: **9** Location: **On-site**
Route (US/NC/SR): **SR 1411** County: **Davie**
Project Description: **Bridge No. 50 over Dutchman's Creek on SR 1411 (Cana Road)**
Tier: **Sub-Regional** Funding: **State**
Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Matt Jones	336-747-7800	mwjones@ncdot.gov
Division Environmental Officer	Amy Euliss	336-747-7800	aeuliss@ncdot.gov
Division Construction Engineer	Keith Raulston	336-747-7800	kraulston@ncdot.gov
Division Bridge Superintendent	Chuck White	704-630-3260	crwhite@ncdot.gov
Davie Bridge Maintenance	B. S. Cornatzer	704-630-3260	bscornatzer@ncdot.gov
PPU	David Stark	919.707.6605	dstark@ncdot.gov
PPU	Laura Sutton	919.707.6607	lsutton@ncdot.gov
Hydraulics Engineer	Galen Cail	919-707-6711	gcail@ncdot.gov
Hydraulics Engineer	Chris Lewis	919-707-6714	crlewis2@ncdot.gov
USACE	John Thomas	919-554-4884 x25	John.t.thomas.jr@usace.army.mil
NCDEQ-DWR	Dave Wanucha	336-771-4951	dave.wanucha@ncdenr.gov
USFWS	Andrew Henderson	828-258-3939 x 227	Andrew_Henderson@fws.gov
NCWRC	Marla Chambers	704-984-1070	Marla.chambers@ncwildlife.org
Locations and Surveys	Mike Motsinger	336-969-0523	mmotsinger@ncdot.gov
Locations and Surveys	Ruth E. Brim	336-969-9550	rebrim@ncdot.gov

Existing Features

Feature Bridged: **290050 over Dutchman's Creek on SR 1411 (Cana Road)**

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

Roadway width: **(Ft.) 18**

(Bridge / Culvert) Length: **209 (Ft.) 150**

Deck Width (Out To Out): **(Ft.) 26.5**

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

Height Bed-To-Crown: **(Ft.) 17'**

Year Built: **1958**

Posted: SV: 39

TTST: **Not Posted**

Superstructure: **REINFORCED
CONCRETE ON I-BEAMS**

Abutment: **Spill Through**

Pier Type: **Prestressed
Concrete Piles**

Temp. Shored:

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

PRI:

DP:

SR: 47.57

School Bus crossings per day: 4 buses, 7 trips

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route:

SR 1415 –SR 1419- HWY 801

Approximate Length Of Detour?

6.31 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

Possible

Cable Lines

In Conflict

Possible

Fiber Optic

In Conflict

Water

In Conflict

Possible no water on surveys

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: Northern long-eared bat; Michaux's sumac

T&E species effect: Northern long-eared bat; **surveys for Michaux's sumac should be conducted May through October due to the project's proximity to known locations of the species**-Survey to be conducted in Spring by DEO

Trout County **NO**:

TVA County: **NO**

CAMA County: **NO**

Primary Nursery Area: **No**

Moratoria: None

Which species:

Duration:

Permits discussion: NW3

Water Quality Classification: **Class C**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Yadkin- Pee Dee**

Riparian Buffer Rules: **N/A**

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:

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: Yes;

1) Davie County CTP indicates on-road bike route along SR 1200 traversing this location. See Bicycle Map and see also p. II-13 of CTP. https://connect.ncdot.gov/projects/planning/TPBCTP/Davie%20County/Davie_BicycleMap.pdf
Specific plan source for PTRC "unimproved trail" along Dutchmans Creek is not known.

Contact: Piedmont Triad Regional Council (serves or Northwest Piedmont RPO), Jesse Day, Senior Regional Planner (jday@ptrc.org or 336.904.0300) Verify adequate height under bridge

Comments: Accommodate planned shared-use path (greenway) under bridge per Greenway Accommodation Policy.
<https://www.ncdot.gov/bikeped/download/GuidelinesForGreenwayAccommodations.pdf>

In the alternative, greenway accommodation for this "unimproved trail" could be a road crossing if safety considerations permit at this low-volume location; crossing should be designed with signage, pavement markings, and other elements in accordance with the AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities, 1st Edition (2004).

Contact Jesse Day (info above) for additional input re: needs for trail or greenway along Dutchmans Creek.

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? No

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

Possible Foundation Type:

End Bents:

Interior Bents:

Structure No: 290050

Hydraulics

FEMA Approval? (MOA) LDS State Stormwater Permit? No
Is There Unusual Scour Potential? No Is Protection Needed? No
Are Banks Stable? Yes Is Protection Needed? No
Appreciable Amount Of Large Debris? Moderate
Placement Of Bents In The Water Be Allowed: No Where:
Structure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: 165' Min. Number Of Spans: 3 Span Arrangement: 50-65-50
Waive offset: Upstream Right (East) EB Cap: **4'-0"** Skewed: No
Shorten 15 feet on North End, hold east side

Items To Be Discussed / Resolved At FSM By Attendees

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

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☒ Minimum Criteria Checklist ☐

ADT: **810 SIR** NHS: **No** Tier: **Sub-regional** Func. Class: **Local, Rural**

Bridge Min. Clear Deck Width Recommended by Div.: **30' OTO with 2-bar rail**

Roadway lane width: 10 ' with 6 ' shoulders, including **4"** paved shoulders for bike accommodations

Extension of Paved shoulders: end of **construction limits**

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

Min. Pavement Surface Course: **2½" AWS** Existing Roadway: 24' overall with 10' lanes

Pavement Marking: **Thermoplastic** Pavement Markers: **None**

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

Truck Percentage: **6% (per BIR)** Reasonable Safe Speed per SIR: 55 mph

Liquidated damages: will be imposed after 120 days of closure/construction. Amt: \$ 750 per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Conc.**

Salvageable materials: None

Contact Person/number:

Deliver to:

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

Sequencing priority in construction? Summer Replacement, may be good idea with number of buses.

Comments:

