

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

WBS: **17BP.9.R.68** Bridge No.: **280055** Field Scoping Meeting Date: **October 26, 2016**
Division: **9** Location: **On-site**
Route (US/NC/SR): **NC 47** County: **Davidson**
Project Description: **Bridge No. 55 over Flat Swamp Creek on NC 47**
Tier: **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
Davidson Bridge Maintenance	Shawn Duckworth	336-224-3250	sduckworth@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: **280055 over Flat Swamp Creek on NC 47**

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

Roadway width: **(Ft.) 21**

(Bridge / Culvert) Length: **(Ft.) 90**

Deck Width (Out To Out): **(Ft.) 28.1**

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

Height Bed-To-Crown: **(Ft.) 15'**

Year Built: **1950**

Posted: SV: **22**

TTST: **29**

Superstructure: **Reinforced
Concrete Deck on I-Beams**

Abutment: **Spill Through**

Pier Type: **RC P & B**

Temp. Shored:

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

PRI:

DP:

SR: **36.16**

School Bus crossings per day: 1 bus 2x per day

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 2257- SR 2318 – SR 2321**

Approximate Length Of Detour?

6.38 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? Low

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

Possible Underground

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: Bald Eagle; Northern long-eared bat; Schweinitz's sunflower

T&E species effect: **Surveys for Schweinitz's sunflower should be conducted September through October (DEO Division to provide)**

Trout County: **NO**

TVA County: **NO**

CAMA County: **NO**

Primary Nursery Area: **NO**

Moratoria: No

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, see attached map
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) Davidson County CTP – indicates bike route along NC 47 at this location(see "Bicycle Map," sheet 4 of 5) Also indicates Multi-Use Path under bridge along Flat Swamp Creek (See "Pedestrian Map," sheet 5/ 5)

2) Pedestrian Bicycle Infrastructure Network (PBIN) indicates bike route along NC 47 at this location. Not found in Central Park Bike Plan, other source possible

3) Davidson County Greenway Master Plan (http://www.pedpower.org/DCGwayMasterPlanReport1_20_09.pdf) shows planned shared-use path (greenway) along Flat Swamp Creek. Also see notes below regarding lakes.

Contact: Greg Venable, High Point MPO, 336-883-3310

Comments:

Per Bike and Ped recommendations "Bridge should be high and wide enough to accommodate planned greenway (shared-use path) passing under bridge along Flat Swamp Creek. See Greenway Accommodation policy."

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 Comments:

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

Possible Foundation Type: End Bents: Interior Bents:

Structure No: 280055

3 of 6

Hydraulics

FEMA Approval?

(MOA)

Is There Unusual Scour Potential? No

Is Protection Needed? **STD**

Are Banks Stable? Yes

Is Protection Needed? **STD**

Appreciable Amount Of Large Debris? Moderate

Placement Of Bents In The Water Be Allowed: No

Where:

Structure Type: **Bridge**

If Bridge: **CS or BB**

If girder; why?

Length Of Structure: 100'

Min. Number Of Spans: 1

Span Arrangement: 100'

Waive offset: No

EB Cap: **2'6" or 4'-0"**

Skewed: No

Maintain low steel – hits in 100 year

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

Environmental Document Prepared by DEO:

Low Impact Data Spreadsheet ☒

Minimum Criteria Checklist ☐

ADT: **1100 SIR**

NHS: **No**

Tier: **Regional**

Func. Class: **Major Collector / Rural**

Bridge Min. Clear Deck Width Recommended by Div.: 36 OTO with 2-bar rails

Roadway lane width: 12' with 6' shoulders, including 4' paved shoulders **for bike accommodations**

Extension of Paved shoulders: end of **construction limits** or **end of guardrail (256.5' approach guardrail and 112.5 trailing guardrail)**

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

Min. Pavement Surface Course: **3 1/2" concrete overlay**

Existing Roadway: 23' overall with 11' lanes

Pavement Marking: **Thermoplastic/Paint/None**

Pavement Markers: **Raised/Snowplowable/None**

Will Railroad Involvement Be Required: No

Method of Clearing: **III**

Truck Percentage: **7 %**

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? 55 & 82 Sequential (On NC47) but not at same time

Comments:



