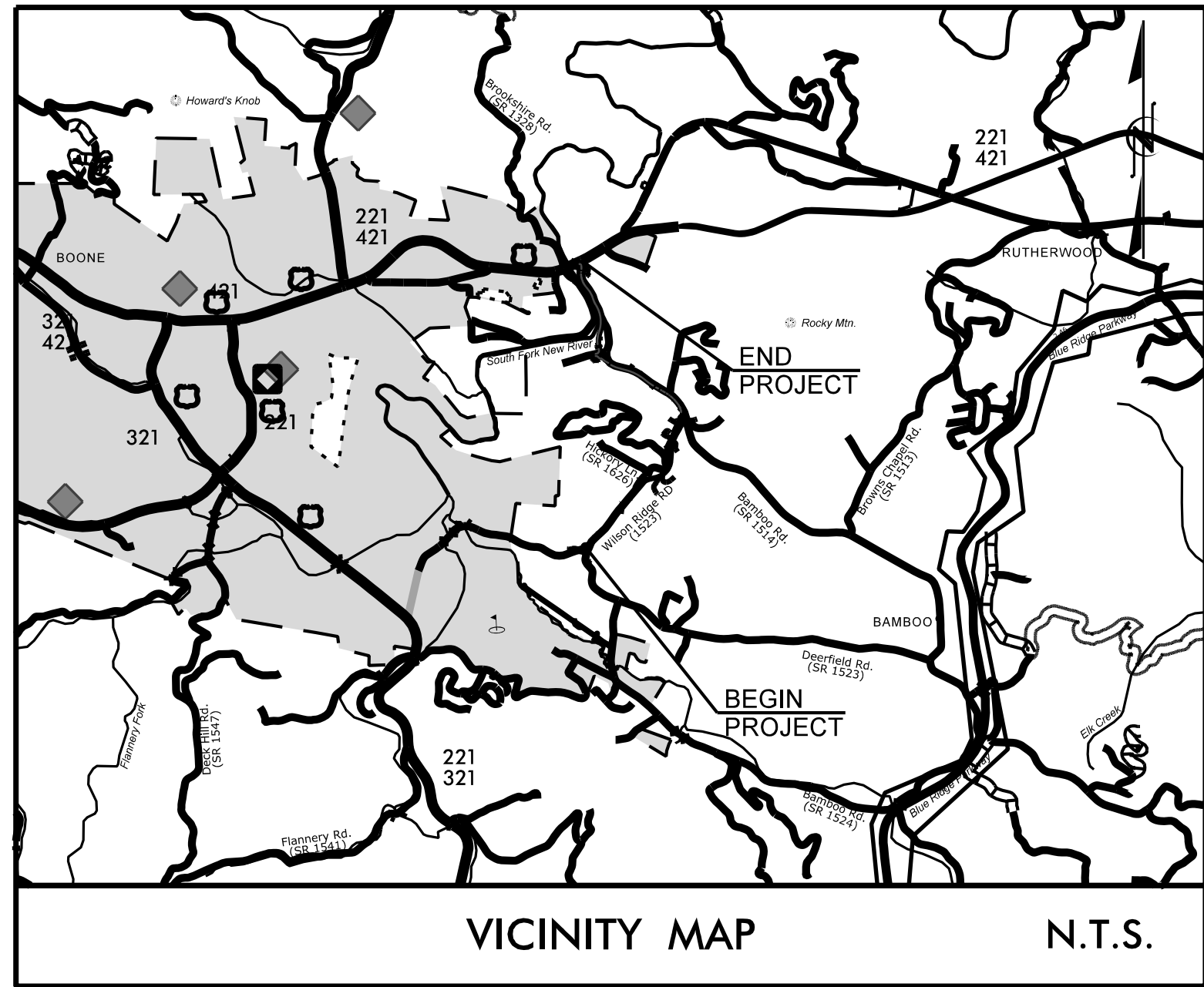


bgonfa
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PROJECT: U-5810

CONTRACT: C204504



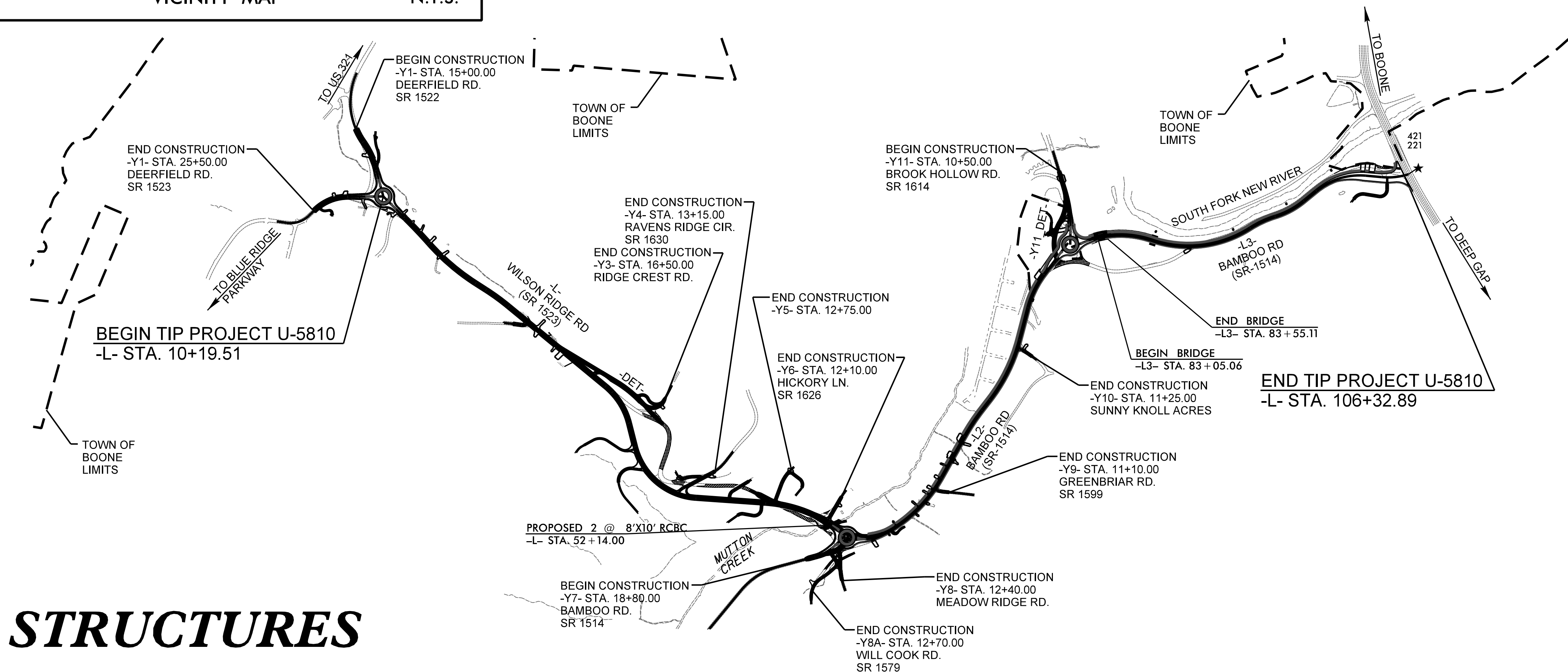
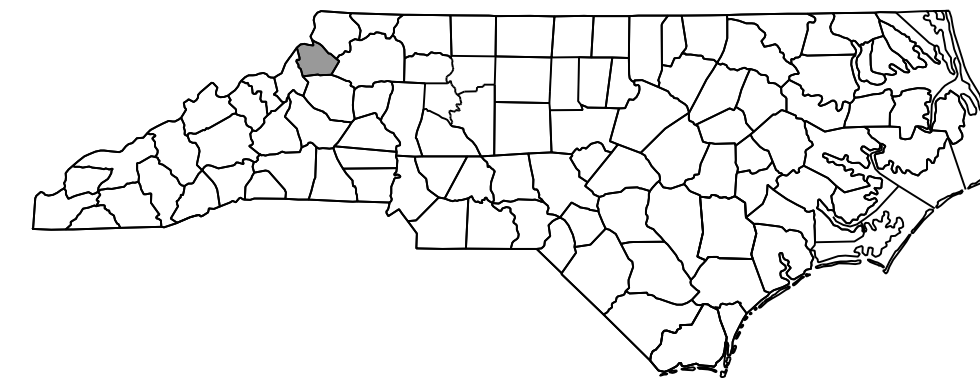
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WATAUGA COUNTY

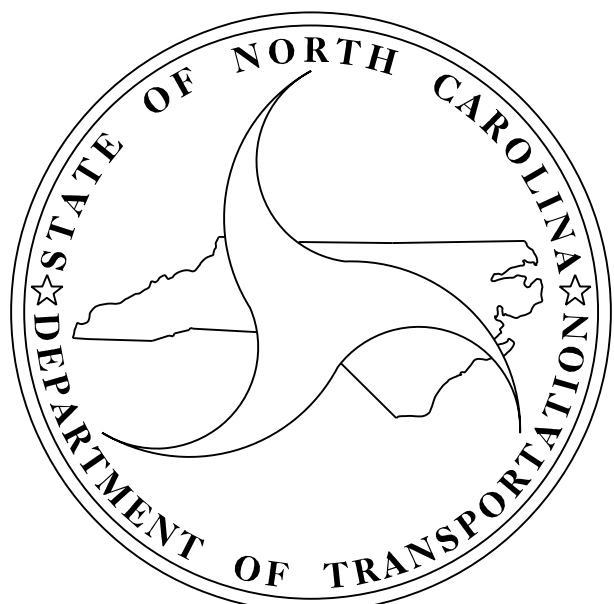
**LOCATION: SR 1514 (BAMBOO ROAD)/SR 1523 (WILSON RIDGE ROAD)
FROM SR 1522 (DEERFIELD ROAD) TO US421/US 221**

**TYPE OF WORK: GRADING, PAVING, WIDENING, DRAINAGE, STRUCTURES,
RETAINING WALL, SIGNALS, AND UTILITIES**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5810		
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44383.1.1		PE	
44383.2.1		RW	
44383.2.2		UTILITIES	
44383.3.1	443801	CONST.	



STRUCTURES



DESIGN DATA

ADT 2026 = 12,700
ADT 2046 = 17,800
V = 40 MPH
DHV = 9%
D = 60%
T = 4%*
* TTST = 2 % /* DUAL 2 %
FUNC CLASS = RURAL
MAJOR COLLECTOR
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-5810 = 1.812 MILES
LENGTH STRUCTURE TIP PROJECT U-5810 = 0.009 MILES
TOTAL LENGTH TIP PROJECT U-5810 = 1.821 MILES

Prepared for the Office of:
DIVISION OF HIGHWAYS
STRUCTURES MANAGEMENT UNIT
1000 BIRCH RIDGE DR.
RALEIGH, N.C. 27610

2024 STANDARD SPECIFICATIONS

LETTING DATE :
AUGUST 18, 2026

Brandon McInnis, P.E.
PROJECT ENGINEER

Ondine J. Paitel, P.E.
PROJECT STRUCTURE ENGINEER

NCDOT CONTACT:
Hoang T. Dieu, P.E.

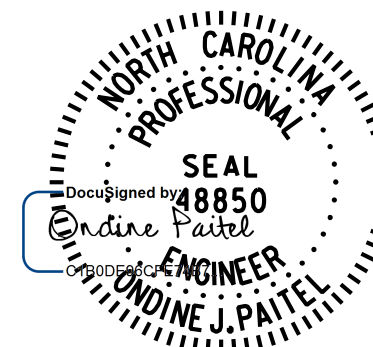
PLANS PREPARED BY:

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Raleigh, North Carolina 27615 | NC License No. F-0112

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4/16/2026