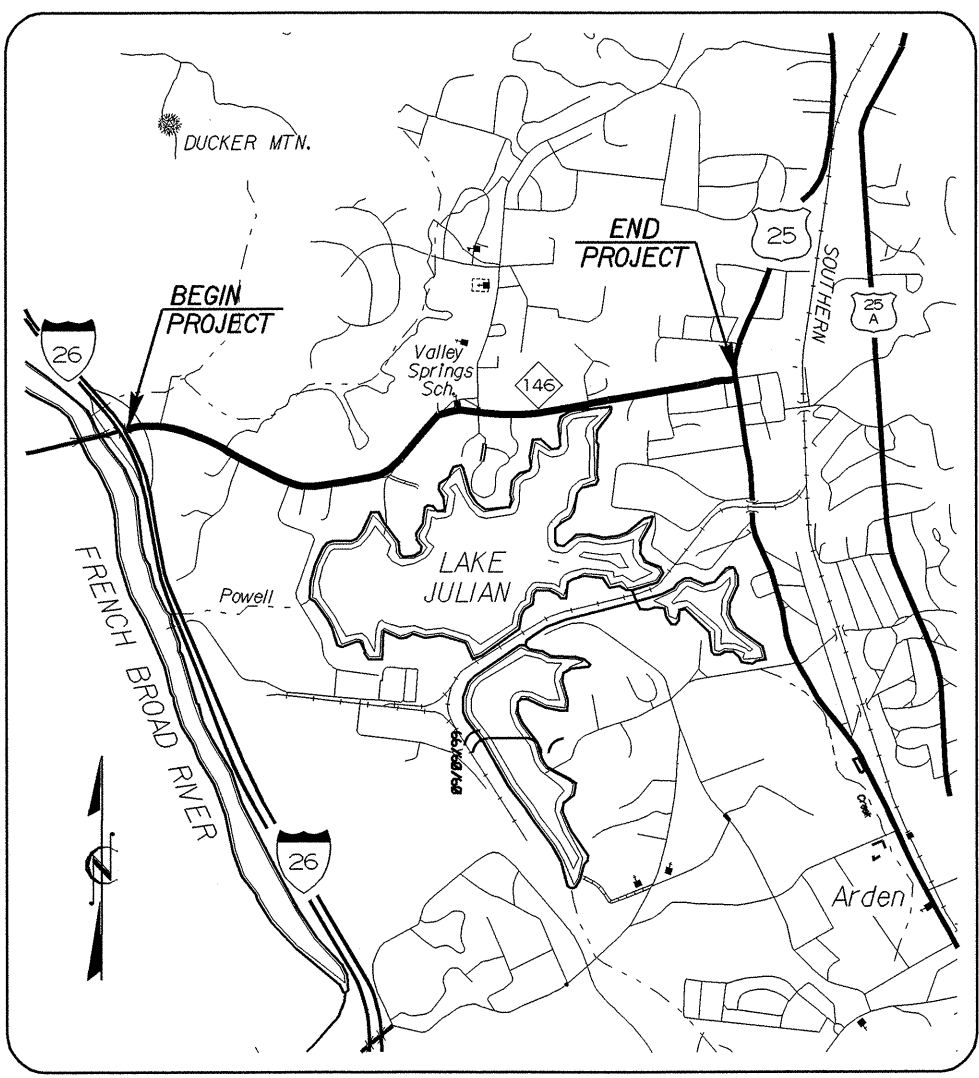


9/10/99

CONTRACT C200822 TIP PROJECT R-2813C

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



VICINITY MAP

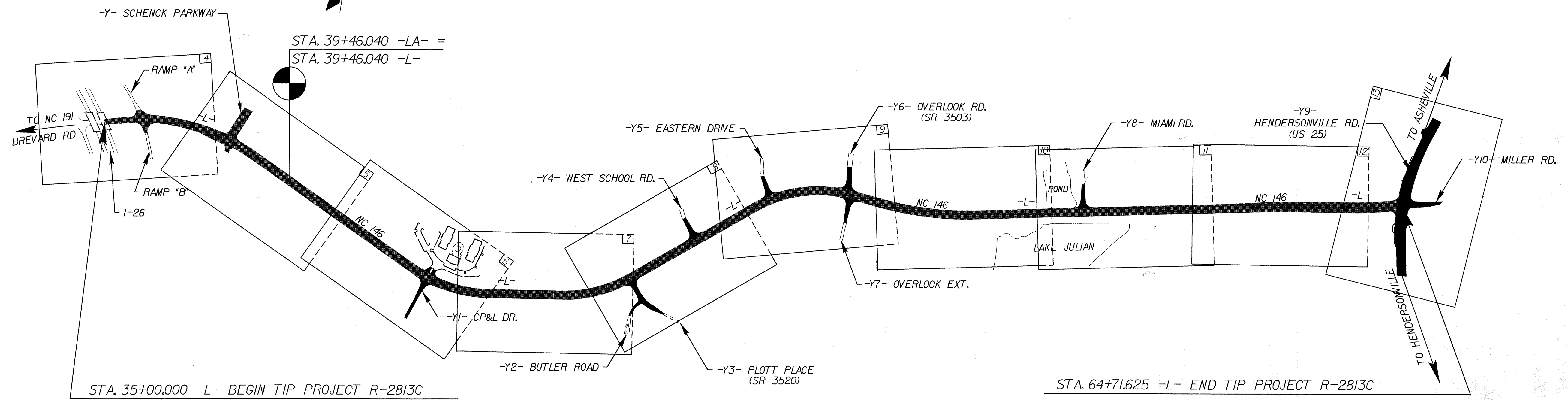
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

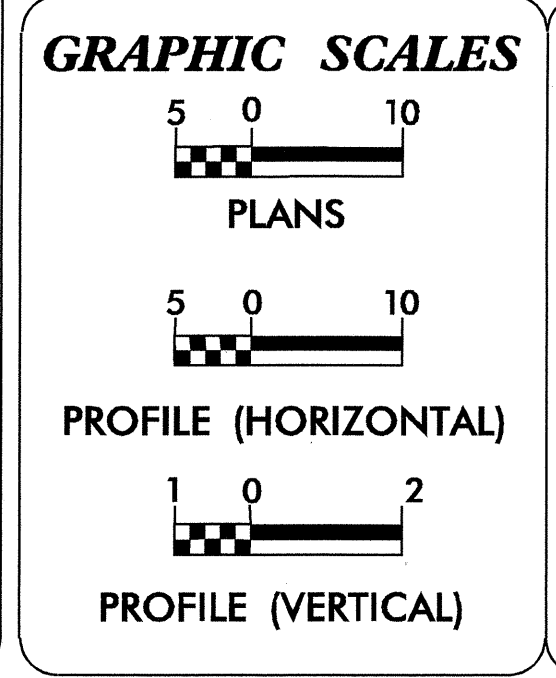
**LOCATION: NC 146 (LONG SHOALS ROAD) FROM EAST OF I-26
TO US 25 (HENDERSONVILLE ROAD)**

**TYPE OF WORK: GRADING, WIDENING, PAVING, DRAINAGE, CURB & GUTTER
SIGNING, CULVERT EXTENSION AND TRAFFIC SIGNALS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2813C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34505.1.1	STP-146(2)	PE	
34505.2.2	STP-146(2)	RW & UTIL	
34505.3.2	STP-146(3)	CONST	



DESIGN EXCEPTION REQUIRED FOR CREST AND SAG VERTICAL CURVES



DESIGN DATA

ADT 2004 =	22,420
ADT 2020 =	32,900
DHV =	10 %
D =	60 %
T =	3 % *
V =	80 kmh
* TTST 1 % + DUAL 2 %	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2813C =	2.972 Km
TOTAL LENGTH STATE TIP PROJECT R-2813C =	2.972 Km

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh, NC 27610

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 9, 2000

LETTING DATE:
FEBRUARY 15, 2005

G. E. BREW, PE
PROJECT ENGINEER

W. T. BEST
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

Signature: *G. E. Brew*

ROADWAY DESIGN ENGINEER

Signature: *W. T. Best*

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

Signature: *Carl W. Miller* P.E.

STATE DESIGN ENGINEER

**DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

APPROVED
DIVISION ADMINISTRATOR

DATE

16-APR-2004 10:49
R:\p\o\NR-2813C\RDY_TSH.dgn
wasim.td E:\RD212303