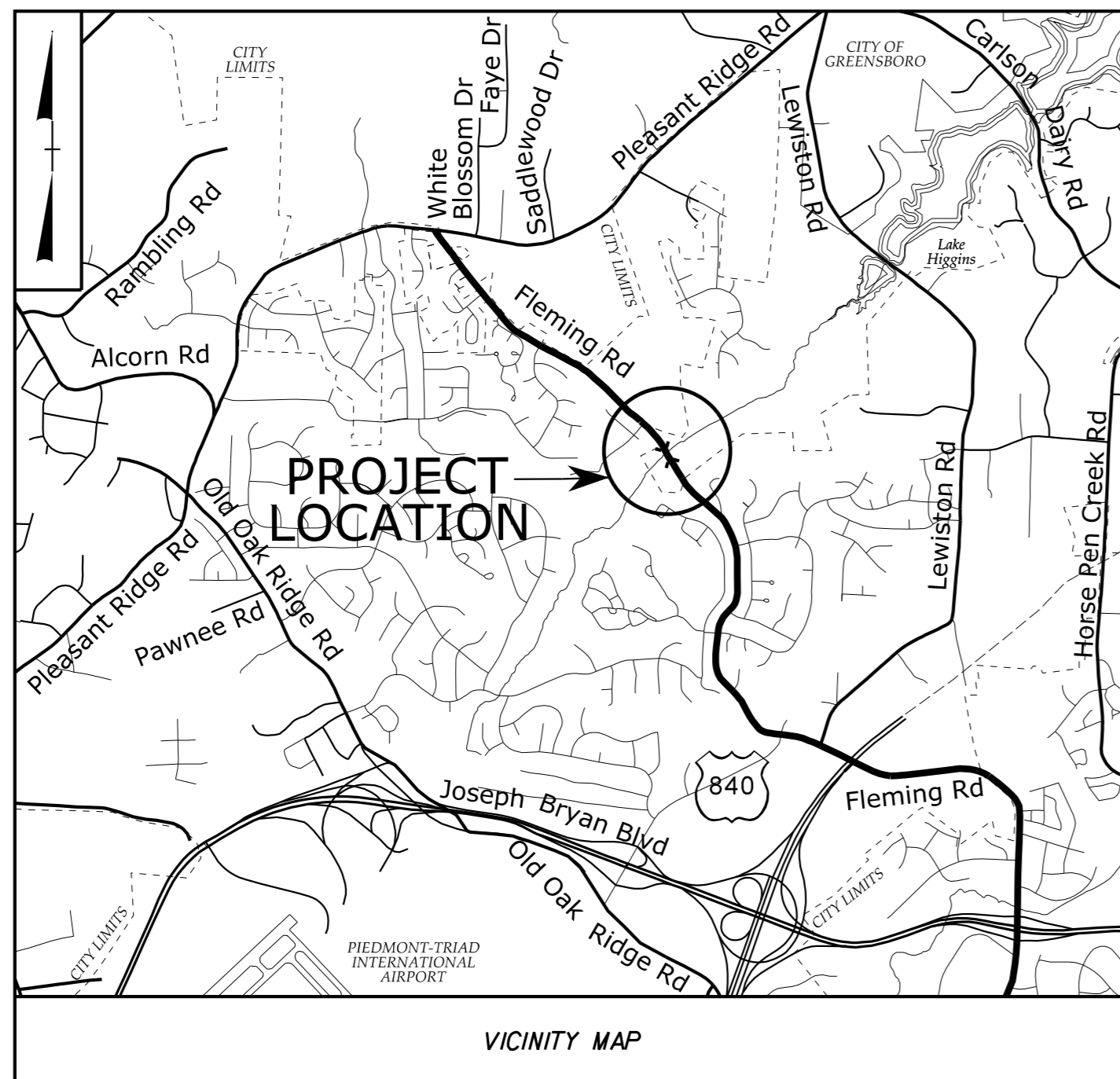


**TIP PROJECT: B-5345**

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



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

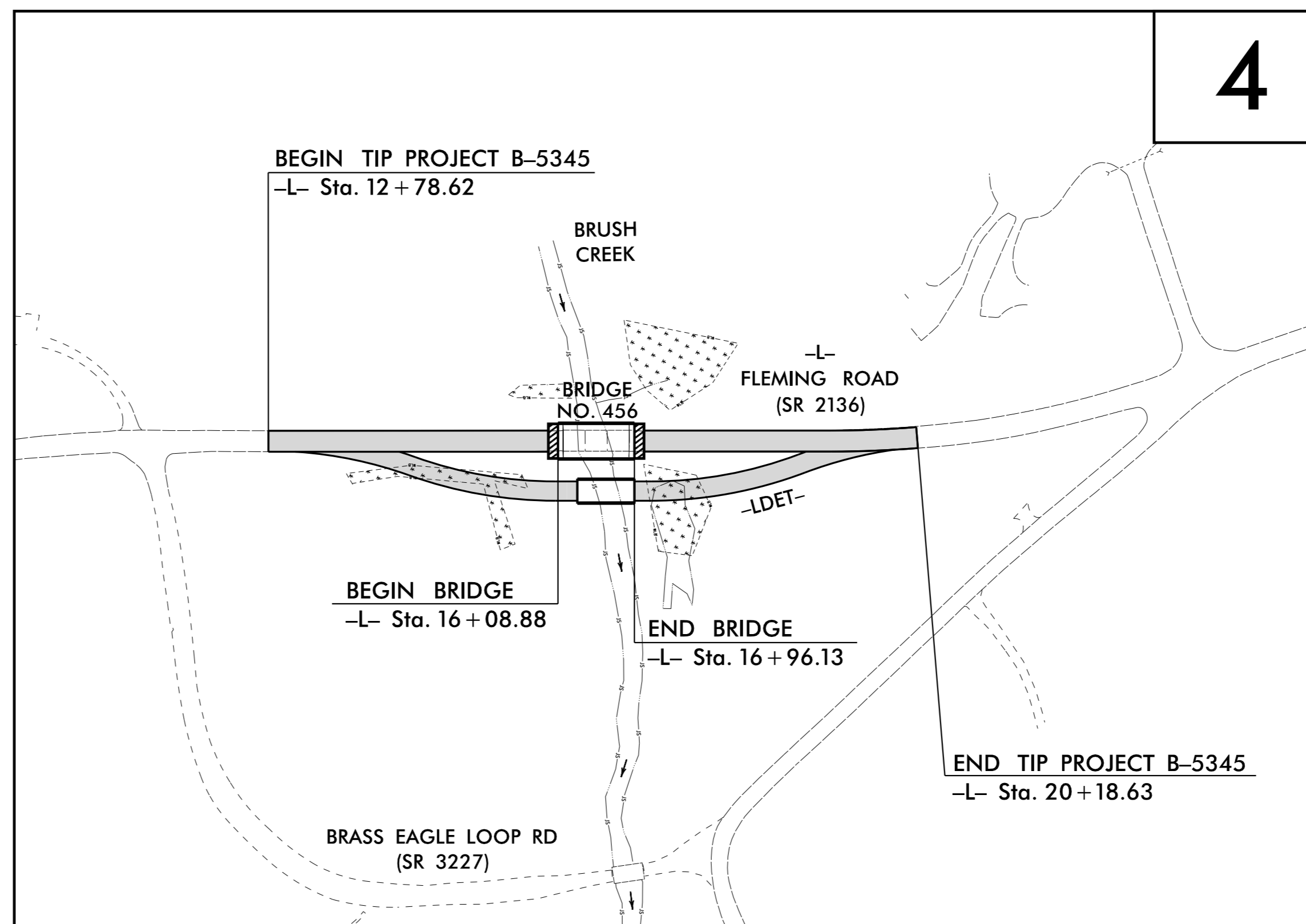
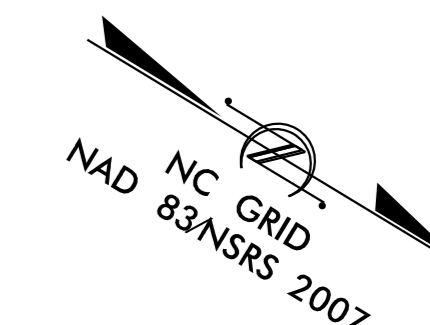
**GUILFORD COUNTY**

**LOCATION:** BRIDGE NO. 456 OVER BRUSH CREEK  
ON SR 2136 (FLEMING ROAD)

**TYPE OF WORK:** GRADING, DRAINAGE, PAVING, AND STRUCTURE

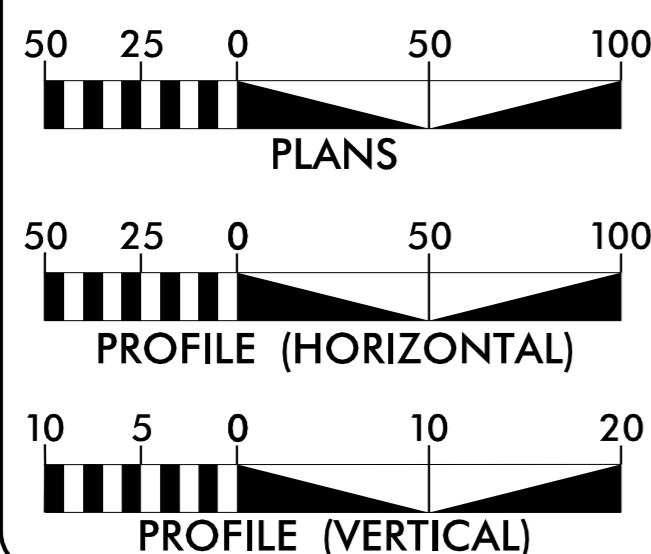
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5345	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46059.1.1	BRSTP-2136(5)	P.E.	
46059.2.1	N/A	RIGHT-OF-WAY	
46059.2.1	N/A	UTILITIES	
46059.3.1	N/A	CONSTRUCTION	

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



\*DESIGN EXCEPTION REQUIRED FOR SAG VERTICAL CURVE AND ASSOCIATED NIGHTTIME STOPPING SIGHT DISTANCE

**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2017 = 6450 vpd  
ADT 2037 = 9450 vpd  
K = 11%  
D = 60%  
T = 3%\*  
V = 50 MPH  
VDET = 40 MPH  
\*TTST = 1% DUAL = 2%  
FUNC CLASS = RURAL LOCAL  
"SUBREGIONAL TIER"

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-5345 = 0.123 MILES  
LENGTH STRUCTURE TIP PROJECT B-5345 = 0.017 MILES  
TOTAL LENGTH TIP PROJECT B-5345 = 0.140 MILES

PLANS PREPARED FOR THE NCDOT BY:

**Kimley & Horn**

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

JUNE 17, 2016

LETTING DATE:

JUNE 20, 2017

JEFFREY W. MOORE, P.E.  
PROJECT ENGINEER

CATHERINE A. MURRELL, P.E.  
PROJECT DESIGN ENGINEER

GARY LOVERING, P.E.  
PROJECT ENGINEER  
NCDOT ROADWAY DESIGN

HYDRAULICS ENGINEER



4/17/2017

P.E.

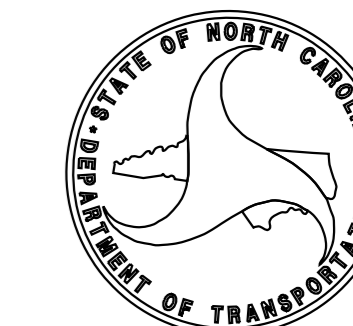
SIGNATURE:  
ROADWAY DESIGN ENGINEER



4/17/2017

P.E.

SIGNATURE:



**CONTRACT: C203947**