

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3451	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33071.1.1	BRSTP-1306 (4)	PE	
33071.2.2	BRSTP-1306 (4)	R / W, UTILITIES	
33071.3.2	BRSTP-1306 (13)	CONSTRUCTION	

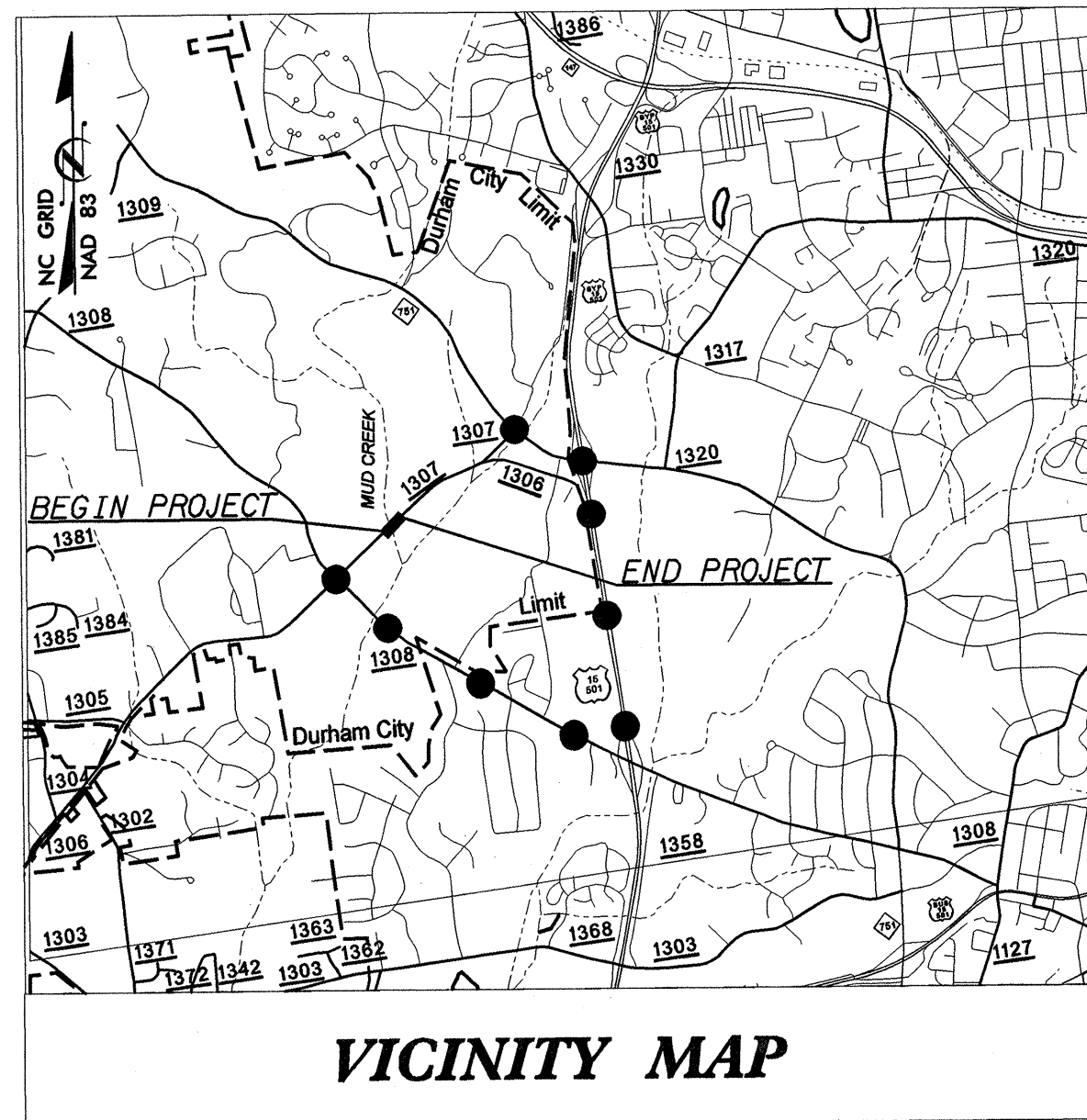
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**DURHAM COUNTY**

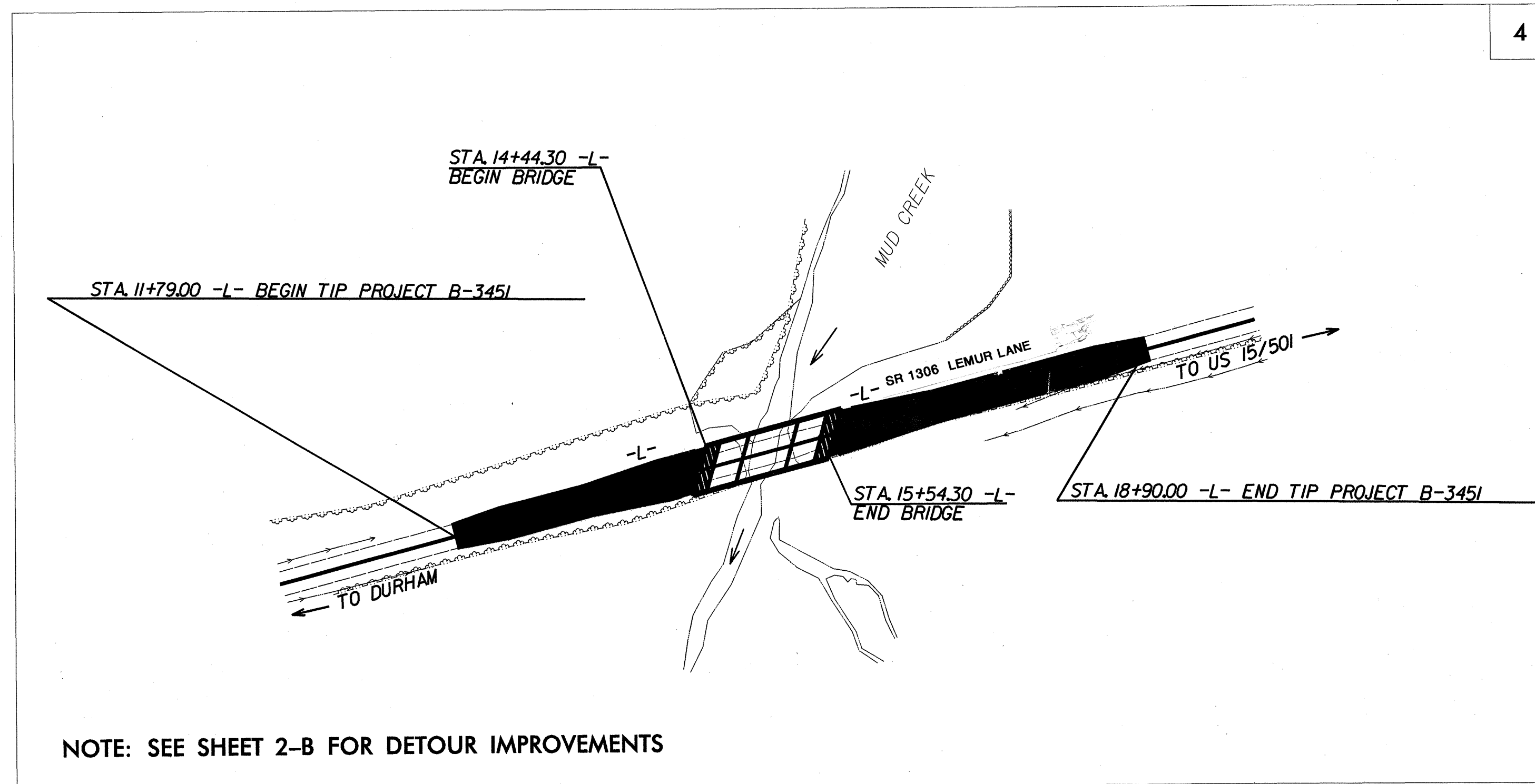
**LOCATION: BRIDGE NO. 119 OVER PRONG OF MUD CREEK  
ON SR 1307**

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

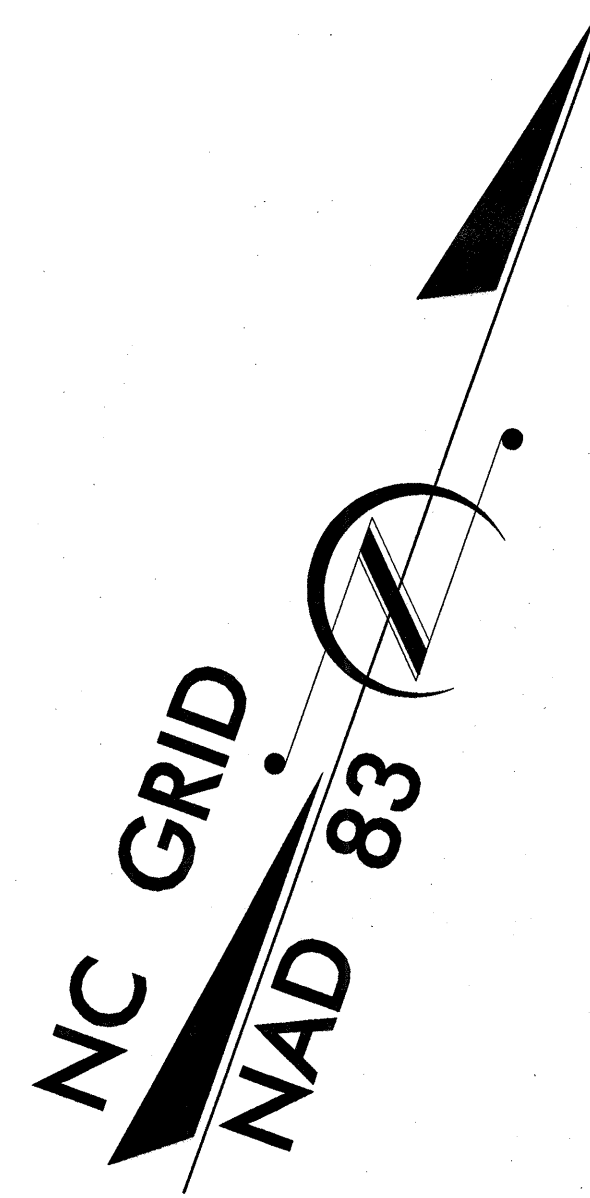
See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



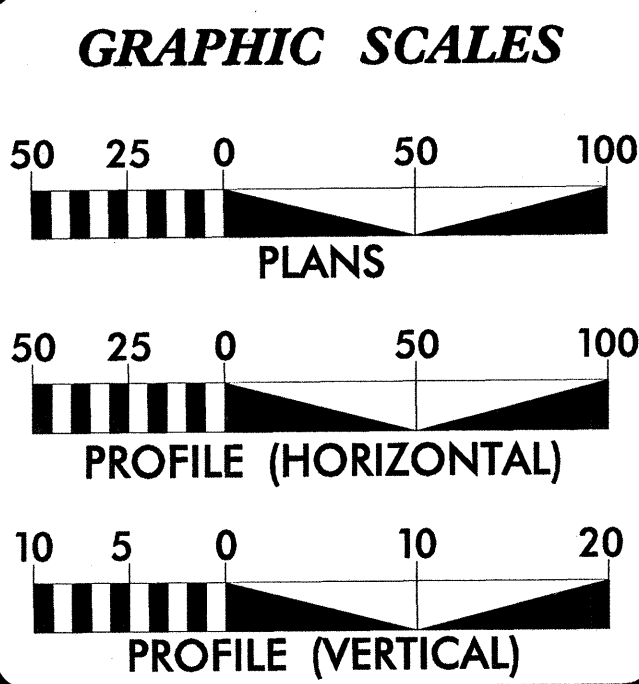
DETOUR ● ● ● ●



NOTE: SEE SHEET 2-B FOR DETOUR IMPROVEMENTS



DESIGN EXCEPTION FOR SHOULDER WIDTH REQUIRED ON OFFSITE DETOUR.  
NCDOT CONTACT: MS. CATHY S. HOUSER, PE, PROJECT ENGINEER



**DESIGN DATA**

ADT 2003 =	14,300 VPD
ADT 2023 =	22,700 VPD
DHV =	12%
D =	65%
T =	4% *
V =	50 MPH
* TTST 1% +	DUAL 3%

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT B-3451 =	0.114 MILE
LENGTH STRUCTURE TIP PROJECT B-3451 =	0.021 MILE
TOTAL LENGTH OF TIP PROJECT B-3451 =	0.135 MILE

Prepared for NCDOT In the Office of:

KCI Associates of North Carolina, P.A.  
4605 SIX FORKS RD., RALEIGH, N.C. 27609-9210  
1991 783-9214

2002 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:** SEPTEMBER 30, 2002

**LETTING DATE:** JANUARY 18, 2005

**MICHELLE R. BRAME, P.E.**  
PROJECT ENGINEER

**JENNIFER M. SPOHN**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

**ROADWAY DESIGN ENGINEER**

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

*ant m. miller* P.E.  
STATE DESIGN ENGINEER

**DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION**

APPROVED  
DIVISION ADMINISTRATOR

DATE

CONTRACT: C200852 TIP PROJECT: B-3451

09/28/05