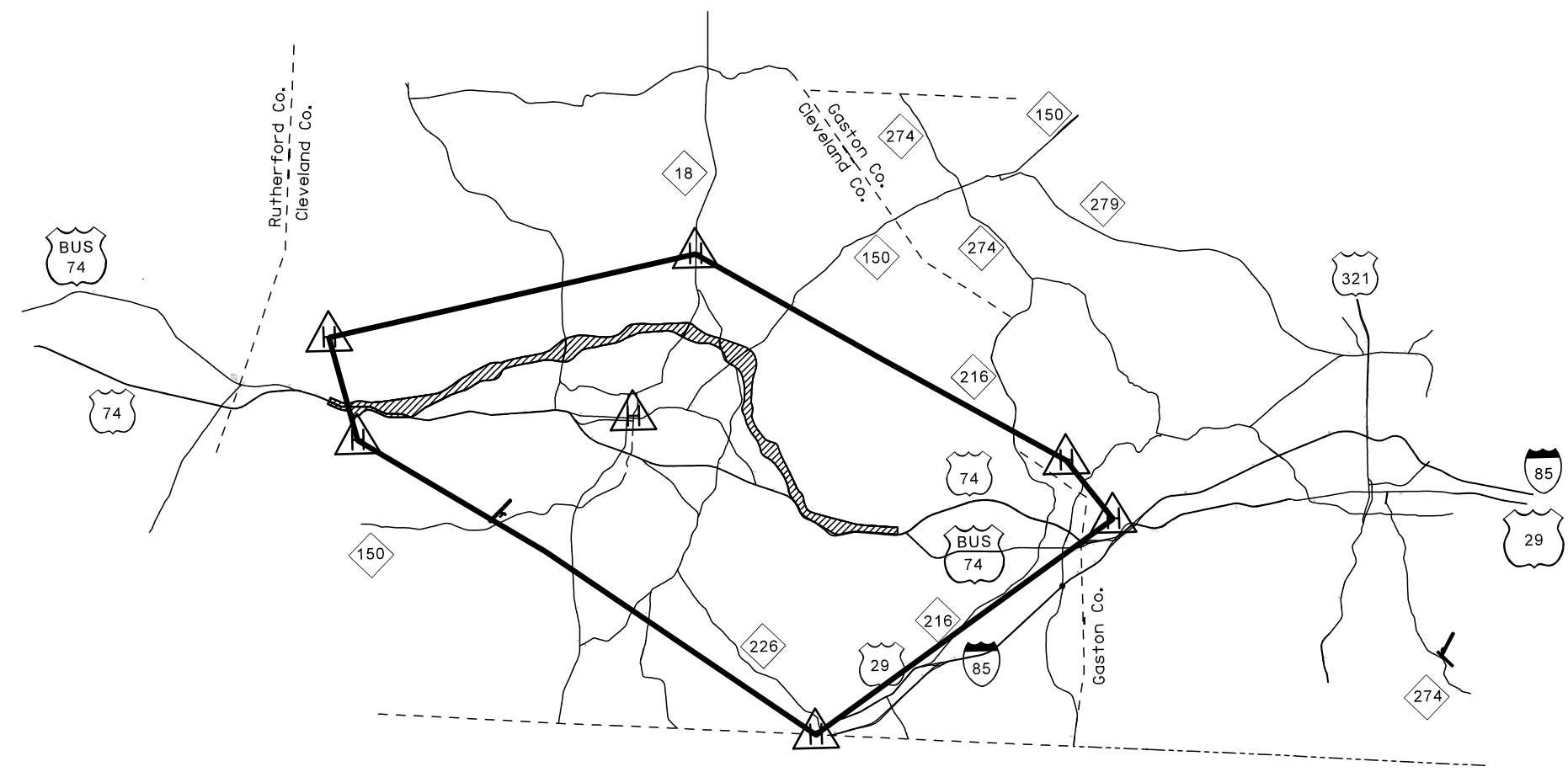


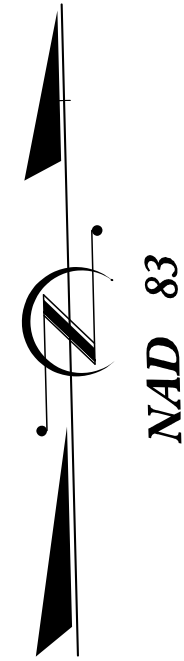
# SURVEY CONTROL SHEET

7/1/10

02/26/08



**GPS NETWORK**  
NOT TO SCALE



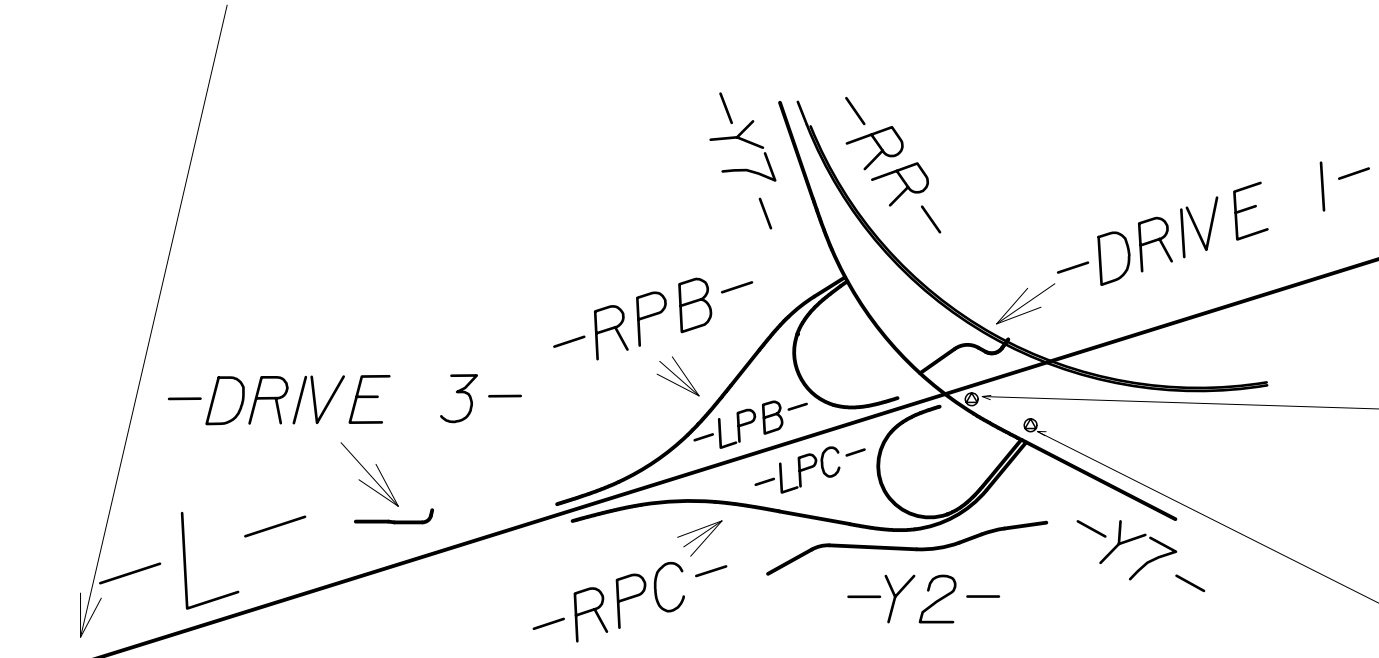
### NOTES

1. THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAYBE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
2. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT [HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/) THE FILES TO BE FOUND ARE AS FOLLOWS:  
R2707B\_LS\_GPSCALIB\_100909.HTM  
R2707B\_LS\_WGS84\_100909.TXT  
R2707B\_LS\_LOCAL\_100909.TXT  
R2707B\_LS\_CONTROL\_100909.TXT  
THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT.  
  
IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

NCDOT GPS STATION R2707-8  
LOCALIZED PROJECT COORDINATES  
N = 580,239.3390  
E = 1,233,459.6170

**L-STA 206+63.80 BEGIN STATE PROJECT 34497.1.1**  
**LOCALIZED PROJECT COORDINATES**

N = 576,906.6470  
E = 1,219,182.3540



NCDOT GPS STATION R2707-6  
LOCALIZED PROJECT COORDINATES  
N = 578,041.4940  
E = 1,223,321.3870

NCDOT GPS STATION R2707-4  
LOCALIZED PROJECT COORDINATES  
N = 576,194.7690  
E = 1,219,011.5400

NCDOT GPS STATION R2707-5  
LOCALIZED PROJECT COORDINATES  
N = 577,485.5880  
E = 1,224,323.7950

**-L-STA 353+23.01 END STATE PROJECT 34497.1.1**  
**LOCALIZED PROJECT COORDINATES**

N = 581,734.1388  
E = 1,239,824.9615

NCDOT GPS STATION R2707-7  
LOCALIZED PROJECT COORDINATES  
N = 579,006.8290  
E = 1,233,137.4580

- ⊗ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEM.
- NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION.
- SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES

### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "M 77"  
WITH NAD 83/95 STATE PLANE GRID COORDINATES OF  
NORTHING: 573127.522(±) EASTING: 124297.658(±)  
ELEVATION: 852.279'(±)  
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984410  
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "M 77" TO -L- L STATION 215+00.00 IS  
N 80 07 30 W 23,380.7581'  
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

08-DEC-2017 13:47  
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AHLB