

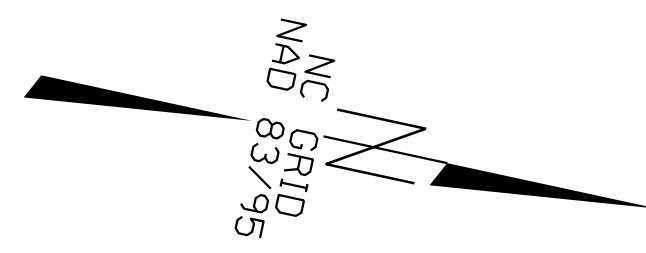
SURVEY CONTROL SHEET U-3338-B

PROJECT REFERENCE NO. U-3338B	SHEET NO. 1C-1
Location and Surveys	

NCDOT GPS MONUMENT U3338-1

NCDOT GPS MONUMENT U3338-4

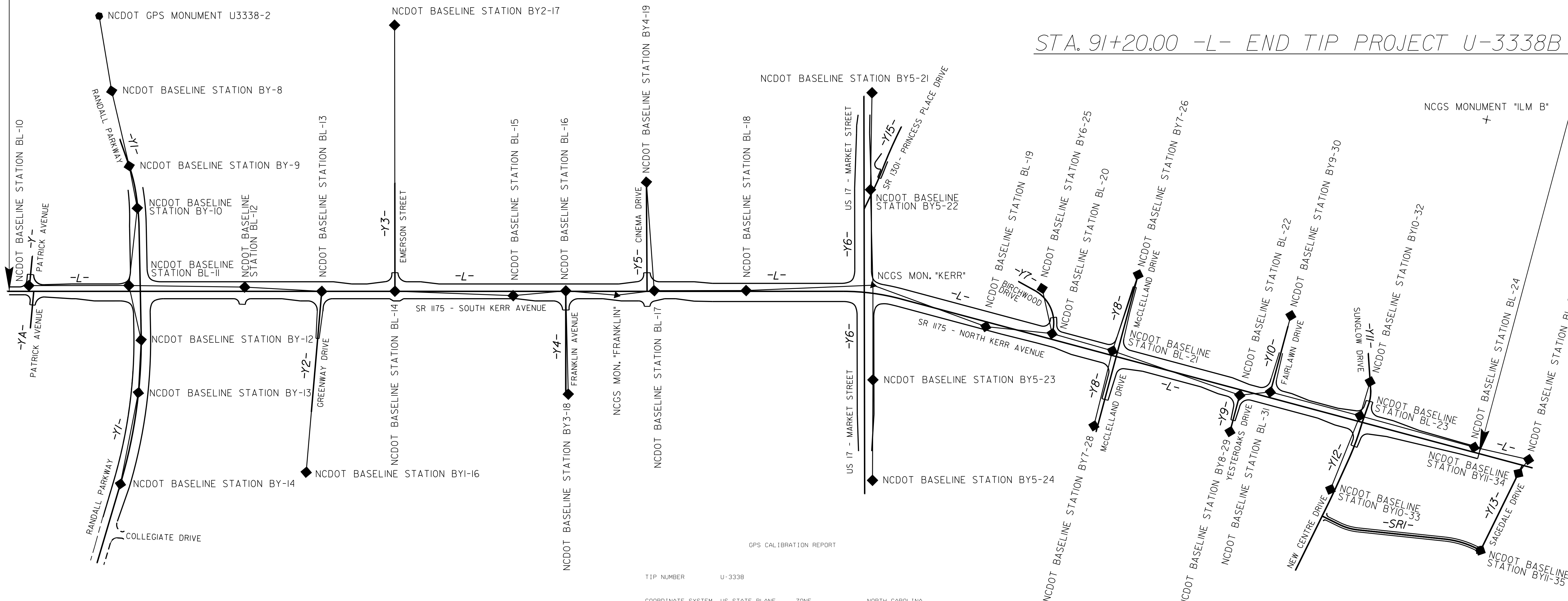
STA. 10+10.00 -L- BEGIN TIP PROJECT U-3338B



NCDOT GPS MONUMENT U3338-3

NCGS MONUMENT "ILM A"

STA. 91+20.00 -L- END TIP PROJECT U-3338B



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 MAY BE 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.NCDOT.ORG/DOHPRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/dohpreconstruct/highway/location/project/)
THE FILES TO BE FOUND ARE AS FOLLOWS:
[U3338B_LS_CONTROL_090428.TXT](#)
IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION
SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

TIP NUMBER	U-3338		
COORDINATE SYSTEM	US STATE PLANE	ZONE	NORTH CAROLINA 3200
HORIZONTAL DATUM	1983 (AT GROUND) NAD 1983/95 (CONUS)		
VERTICAL DATUM	NAVD 88	GEOID MODEL	GEOID83 (CONUS) NC SUB GRID
COORDINATE UNITS	US SURVEY FEET		
DISTANCE UNITS	US SURVEY FEET		
HEIGHT UNITS	US SURVEY FEET		

LOCAL SITE INFORMATION	LOCALIZED AROUND U4718-5		
LATITUDE	34°13'19.57526"N		
LONGITUDE	77°52'57.44291"W		
SITE SCALE FACTOR	0.9999700010		
HEIGHT	-25.519M		

THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION USES A LOCALIZED COORDINATE SYSTEM WHICH IS VERY SIMILAR TO NORTH CAROLINA ZONE 3200 FROM WHICH IT IS DERIVED. PLEASE TAKE CARE IN UTILIZING THESE COORDINATES TO ELIMINATE CONFUSION OF THE TWO SYSTEMS. THIS FILE IS TO AID IN THE USE OF REAL TIME KINEMATIC (RTK) GPS DURING CONSTRUCTION LAYOUT.

NOTE: DRAWING NOT TO SCALE

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U4718-5"
WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
NORTHING: 173,728.005' (ft) EASTING: 2,337,795.840' (ft)
ELEVATION: 37.656' (ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000299999
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4718-5" TO -L- STATION 5+00.00 IS
N 27° 24' 19" W 2,734.170'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88