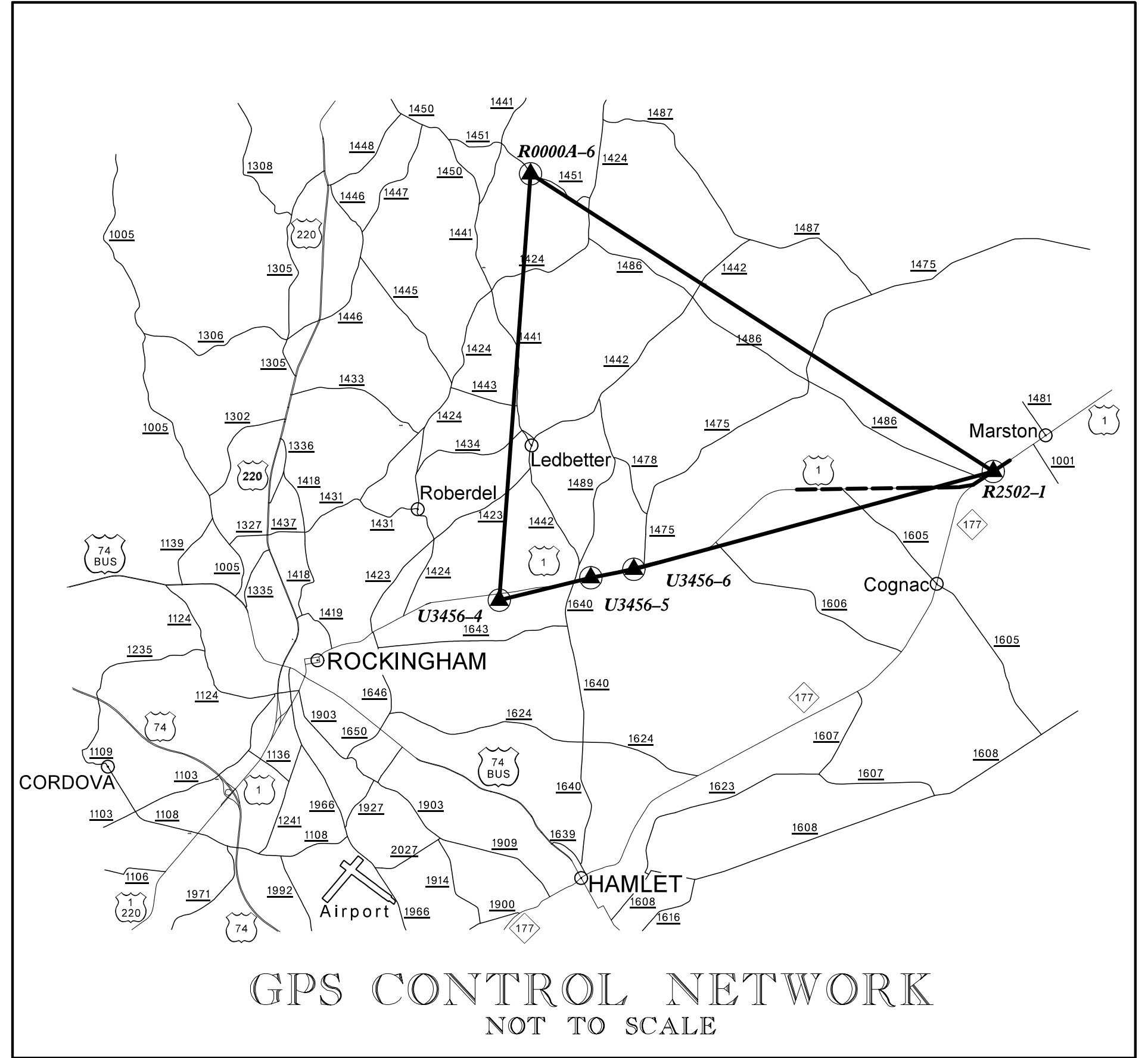


PROJECT REFERENCE NO. R-2501C	SHEET NO. 1C-1
LOCATION AND SURVEYS	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SURVEY CONTROL SHEET



-L- STA. 1329+67.03 END STATE PROJECT 8.T580501
LOCALIZED PROJECT COORDINATES
N = 450250.89
E = 1824475.82

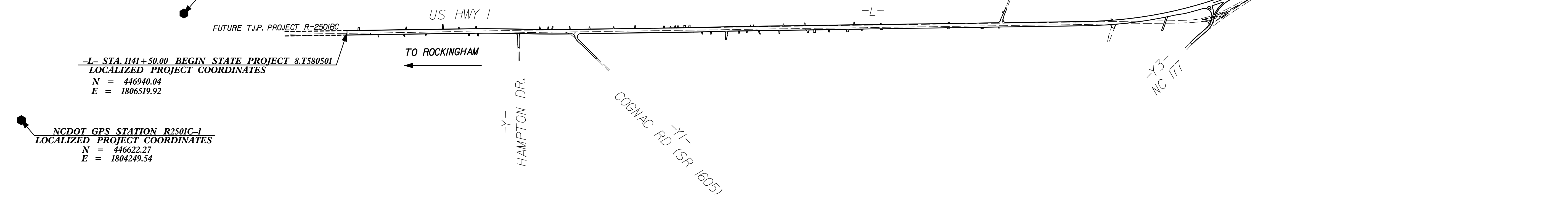
NCDOT GPS STATION R2502-1
LOCALIZED PROJECT COORDINATES
N = 448358.25
E = 1821667.43

NCDOT GPS STATION R2502-2
LOCALIZED PROJECT COORDINATES
N = 450387.53
E = 1824778.87

NCDOT GPS STATION R2501C-2
LOCALIZED PROJECT COORDINATES
N = 446933.66
E = 1805239.05

-L- STA. 1141+50.00 BEGIN STATE PROJECT 8.T580501
LOCALIZED PROJECT COORDINATES
N = 446940.04
E = 1806519.92

NCDOT GPS STATION R2501C-1
LOCALIZED PROJECT COORDINATES
N = 446622.27
E = 1804249.54



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "FRUITLAND" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 427332.498(ft) EASTING: 1804014.118(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99986692 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "FRUITLAND" TO -L- STATION 1141+50.00 IS N 07°16'58.0" E 19767.01' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

- INDICATES CONTROL MONUMENTS 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 CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

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: [HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)
- THE FILES TO BE FOUND ARE AS FOLLOWS:
r2501c_ls_gpscalib_040129.html
r2501c_ls_wgs84_040129.txt
r2501c_ls_local_040129.txt
r2501c_ls_control.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.

NOTE: DRAWING NOT TO SCALE

REVISIONS

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