

=====

FINAL SURVEY REPORT

=====

PROJECT NUMBER: 17BP.7.R.54 000270 ALAMANCE COUNTY
DESC: BRIDGE #000270 ON SR 1552 (BARBER RD) OVER TRAVIS CREEK TRIBUTARY.
DATE OF SURVEY: JULY 11, 2011
LAST UPDATE: JULY 19, 2011

=====

SPECIAL NOTES:

- * THIS IS AN ENGLISH PROJECT
 - * ALL BASELINE POINTS ARE 30" REBAR WITH CAP (UNLESS OTHERWISE NOTED)
- =====

PERSONNEL:

GREENSBORO FIELD OFFICE
1101 E. WENDOVER AVE. SUITE 100
GREENSBORO, NC 27405
(336) 334-5085

DAVE LANGSTON, PE	LOCATING ENGINEER
LARRY WALKES	ASST. LOCATING ENGINEER
KEN HUDSON	TRANSPORTATION TECH. VI
SCOTT LINEBERRY, PLS	TRANSPORTATION TECH. VI
CHRIS SMITH	TRANSPORTATION TECH. IV
ALEX MARKS	TRANSPORTATION TECH. IV
STEVE MCKINNEY	TRANSPORTATION TECH. III
DWAYNE LESTER	TRANSPORTATION TECH. III
JASON LOWE	TRANSPORTATION TECH. II
NICK WHITE	TRANSPORTATION TECH. II
JESSE MCGEE	TRANSPORTATION TECH. II AIDE

=====

DATUM DESCRIPTION:

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON
THE NAD 83/NSRS 2007 STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT:

"000270-2" WITH STATE PLANE GRID COORDINATES OF:

NORTHING: 871,087.779 EASTING: 1,852,184.672

AVG COMBINED GRID FACTOR FOR THIS PROJECT (GROUND TO GRID) = 0.9999681771

ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES.

VERTICAL DATUM FOR THIS PROJECT IS (NAVD 88) AND BASED ON NCDOT MONUMENT

"000270-2" (ELEV.625.994').

=====

LAT/LONG

THE LAT/LONG GIVEN IS INCORRECT.
IT SHOULD READ: LAT 36.14275 / LONG 79.49819

=====

BASELINE: BL = BASELINE ALONG SR 1552 (BARBER RD)

THE BASELINE WAS SET PER NCDOT L&S GUIDELINES AND CAN BE FOUND IN GRAPHICS
FILE (000270_NCDOT_FS.DGN) AND AS CHAIN (BL) IN GPK FILE (000270_LS_GPK.GPK).

=====

BESTFIT ALIGNMENT:

EL = CENTERLINE ALIGNMENT FOR SR 1552 (BARBER RD).

THE BESTFIT ALIGNMENT WAS CREATED FROM THE DATA SHOTS AS LOCATED IN THE FIELD AND CAN BE FOUND IN GRAPHICS FILE (000270_NCDOT_FS.DGN) AND AS CHAIN (EL) IN GPK FILE (000270_LS_GPK.GPK).

DTM DATA:

EP'S, CROWNLIN, CREEK AND EARTH DTMS WERE LOCATED IN THE FIELD BASED ON THE LIMITS OF 75' OUT OF CL OF ROAD AND 100' UP AND DOWN THE CREEK FROM EXISTING BRIDGE. DTMS CAN BE FOUND IN GRAPHICS FILE (000270_LS_DTL.DGN).

TIN FILE (000270_LS_TNL.TIN) WAS CREATED FROM COMBINED DTMS WITH:

DISSOLVE OPTION: SIDE = 100 feet
MINIMUM LINEAR DISTANCE = 30 feet
ARC STROKE TOLERANCE = 0.15 feet

HYDROGRAPHIC DATA:

HYDRO DATA WAS COLLECTED IN THE FIELD ACCORDING TO NCDOT L&S HYDRO GUIDELINES AND CAN BE FOUND IN GRAPHICS FILE (000270_NCDOT_FS.DGN). NO NEU INFO IS AVAILABLE FOR DETERMINING IF STREAM IS JURISDICTIONAL.

PROPERTY:

PROPERTY WAS NOT LOCATED OR MAPPED. THE BEST-FIT ALIGNMENT WAS USED TO CREATE THE EXISTING RIGHT OF WAY OF 60'.

PROPERTY OWNER INFORMATION CAN BE FOUND IN (000270_LS_POC.MDB).

POLE DATA:

POLE DATA INFORMATION CAN BE FOUND IN (000270_LS_PDF.TXT).

UNDERGROUND UTILITY DATA:

NO UNDERGROUND UTILITIES WERE OBSERVED INSIDE PROJECT LIMITS.

THE FOLLOWING FILES WERE CREATED AND TRANSMITTED:

000270_NCDOT_FS.DGN (2D GRAPHICS TOPO FILE)
000270_LS_DTL.DGN (3D GRAPHICS DTM FILE)
000270_LS_TNL.TIN (TIN FILE)
000270_LS_GPK.GPK (GPK FILE)
000270_LS_POC.MDB (PROPERTY OWNER CONTACT FILE)
000270_LS_PDF.TXT (POLE DATA FILE)
000270_LS_SR.TXT (THIS SURVEY REPORT FILE)



LOOKING EAST ON BARBER RD.



LOOKING WEST ON BARBER RD.



CHANNELIZATION OF STREAM UPSTREAM OF BRIDGE