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FINAL SURVEY REPORT

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PROJECT NUMBER: 17BP.7.R.54 670043 ORANGE COUNTY
DESC: BRIDGE #670043 ON SR 1120 (MT. WILLING RD) OVER SEVENMILE CREEK
DATE OF SURVEY: MARCH 26, 2012
LAST UPDATE: JUNE 27, 2012

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SPECIAL NOTES:

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

GREENSBORO FIELD OFFICE
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(336) 334-5085

DAVE LANGSTON, PE	LOCATING ENGINEER
KEN HUDSON	TRANSPORTATION TECH. VI
SCOTT LINEBERRY, PLS	TRANSPORTATION TECH. VI
CHRIS SMITH	TRANSPORTATION TECH. IV
STEVE MCKINNEY	TRANSPORTATION TECH. IV
JASON LOWE	TRANSPORTATION TECH. III
NICK WHITE	TRANSPORTATION TECH. II

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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:

"670043-2" WITH STATE PLANE GRID COORDINATES OF:

NORTHING: 843,528.796 EASTING: 1,950,333.623

AVG COMBINED GRID FACTOR FOR THIS PROJECT (GROUND TO GRID) = 0.9999489862
ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES.

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

"670043-2" (ELEV. 620.44').

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LAT/LONG

THE LAT/LONG GIVEN IS CORRECT.

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BASELINE: BL = BASELINE ALONG SR 1120 (MT. WILLING RD)

THE BASELINE WAS SET PER NCDOT L&S GUIDELINES AND CAN BE FOUND IN GRAPHICS
FILE (670043_NCDOT_FS.DGN) AND AS CHAIN (BL) IN GPK FILE (670043_LS_GPK.GPK).

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BESTFIT ALIGNMENT:

EL = CENTERLINE ALIGNMENT FOR SR 1120 (MT. WILLING RD).

THE BESTFIT ALIGNMENT WAS CREATED FROM THE DATA SHOTS AS LOCATED IN THE FIELD AND CAN BE FOUND IN GRAPHICS FILE (670043_NCDOT_FS.DGN) AND AS CHAIN (EL) IN GPK FILE (670043_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 (670043_LS_DTL.DGN).

TIN FILE (670043_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 (670043_NCDOT_FS.DGN). NO NEU INFO IS AVAILABLE FOR DETERMINING IF STREAM IS JURISDICTIONAL. BRIDGE SEAT ELEVATIONS ARE SHOWN IN FS FILE AS BS#1 (SW CORNER) & BS#2 (SE CORNER)

PROPERTY:

PROPERTY WAS MAPPED. THE BEST-FIT ALIGNMENT WAS USED TO CREATE THE EXISTING RIGHT OF WAY. THE R/W IS 60' BY AGREEMENT.

PROPERTY OWNER INFORMATION CAN BE FOUND IN (670043_LS_POC.MDB).

POLE DATA:

NO POLE DATA INFORMATION

UNDERGROUND UTILITY DATA:

NO UNDERGROUND UTILITIES WERE OBSERVED. UTILITIES MAY BE PRESENT

THE FOLLOWING FILES WERE CREATED AND TRANSMITTED:

670043_NCDOT_FS.DGN (2D GRAPHICS TOPO FILE)
670043_LS_DTL.DGN (3D GRAPHICS DTM FILE)
670043_LS_TNL.TIN (TIN FILE)
670043_LS_GPK.GPK (GPK FILE)
670043_LS_POC.MDB (PROPERTY OWNER CONTACT FILE)
670043_LS_SR.PDF (THIS SURVEY REPORT FILE)



LOOKING SOUTH ON MT. WILLING RD



LOOKING NORTH ON MT. WILLING RD

