
Project#:	DF15004.2096128	TIP#:	95-0156	ID#:	950156-con-ame
Desc:	Bridge 156 over Beaverdam Creek on SR 1101 (Raynor Mill Rd.)				
Date of Survey:	November 30, 2016				
Last update:	December 9, 2016				
Scale:	1"=50'				
File Format:	MicroStation V8i				

SPECIAL NOTES:

This is an English project.

All baseline points are 24" rebar with caps (unless noted otherwise)

Project mapping scale 1"=50'

All baseline points are set to benchmark specifications (unless noted otherwise)

Units of measurement are US survey feet.

PERSONNEL:

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EDM CALIBRATION

Amec Foster Wheeler followed Location & Surveys Procedure 2015-3, "NCGS Baseline Calibrations" for this project. The baseline calibration data has been provided in the text file.

BESTFIT ALIGNMENT:

The best fit alignment was created from data shots collected in the field and can be found in the graphics file and as chains in the roadway gpk file

DATUM DESCRIPTION

The localized coordinate system developed for this project is based on the NAD 83/NA2011 State plane coordinates for the NCGS monument "950156-1" with a northing of 556504.825 sft, easting of 2227790.572 sft.

The average combined factor used on this project (Ground to Grid) is 0.9998713.

All linear distances are localized horizontal distances.

The vertical datum is NAVD 88

BASELINE DATA

The baseline was set along SR 1101 (Raynor Mill Rd.) per NCDOT L&S Guidelines and can be found in the graphics file (FS) and as chains in the gpk file.

DTM DATA

DTM was created from ground topo located in the field based on the limits starting approximately 300' east and west from the existing bridge along SR 1101 (Raynor Mill Road) and a width of approximately 150' left and right of the centerline on SR 1101 (Raynor Mill Road) Collected DTM's can be found in the graphics file.

The TIN file was created from the DTM file with settings of:

Dissolve Option: Side = 100 feet

Minimum Linear Distance = 30 feet

Arc Stroke Tolerance = 0.15 feet

PROPERTY:

The property shown in the FS file was created from deed and plat of record information collected at the Wayne County court house and existing monumentation as located in the field. Using this information the property data base was created and used to send out property owner notifications. The property information has been provided.

POLE DATA:

Pole data information was checked in the field and updated in the pole data file.

UNDERGROUND UTILITY INFORMATION

SUE features were marked by Amec Foster Wheeler under a separate work order. Amec Foster Wheeler field located these marks. The SUE information can be found in the graphics file

THE FOLLOWING FILES WERE CREATED AND TRANSMITTED:

950156_NCDOT_FS_161209.dgn	(2D graphics full field survey file)
950156_ls_dtl_161209.dgn	(3D graphics DTM file)
950156_ls_tnl_161209.tin	(TIN File)
950156_ls_gpk_161209.gpk	(Geopak coord. File)
950156_ls_poc_161209.mdb	(Property owner database)
950156_ls_pdf_161209.txt	(Pole data file)
950156_ls_sue_161209.dgn	(2D graphics subsurface utility engineering file)
950156_ls_closure_161209.2D	(Baseline closure report – text file)
950156_ls_baseline_161209.txt	(Baseline text file)
950156_ls_EDMcalib_160908.rpt	(EDM Calibration report)
950156_ls_deedbook_161209.pdf	(PDF File containing deed copies)
950156_ls_sr_161209.doc	(Survey report file)

Project Site Pictures

Figure 1 - standing on bridge looking east along project limits



Figure 2 - standing on bridge looking west along project limits



Figure 3 - standing on bridge looking south along Beaverdam Creek



Figure 4 - standing on bridge looking north along Beaverdam Creek



Figure 5 - remaining bridge and Beaverdam Creek from Raynor Mill Rd looking northeast



Figure 6 - remaining bridge from Raynor Mill Rd looking east



Figure 7 – remaining bridge and Beaverdam Creek from Raynor Mill Rd. Looking north



Figure 8 – remaining bridge and Beaverdam Creek from Raynor Mill Rd. Looking south



Figure 9 - remaining bridge from Raynor Mill Rd. Looking west



Figure 10 - remaining bridge from Raynor Mill Rd looking south



Figure 11 - remaining bridge from Raynor Mill Rd. Looking west



Figure 12 - Beaverdam Creek from Raynor Rd looking north



Figure 13 - Raynor Rd, remaining bridge and Beaverdam Creek from bridge wing wall looking east



Figure 14 - Beaverdam Creek from remaining bridge looking north



Figure 15 - Raynor Rd from near bridge looking east



Figure 16 - Raynor Rd., remaining bridge and Beaverdam Creek from Raynor Rd. looking west

