



Steven Bailey
1995- Present (Career)
Survey Manager

Wake Forest
Community College
2005-

Cape Fear Community
College
1995-1997

NC, PLS (#4493)

Mr. Bailey has over 12 years of experience in the field of Land Surveying including managing survey crews. He is highly skilled in the use of survey equipment and procedures for all aspects of design, construction and boundary surveying. He understands survey calculations involving traverse closure, construction stakeout and verification, boundary surveys and GPS control. His experience includes grading and drainage site matrixes for subdivisions. Mr. Bailey has project experience in topographic, boundary, wetland and construction surveying.

Mr. Bailey's project experience includes the following:

- ❑ **SC 802, Beaufort, SC**—Mr. Bailey served as survey manager for this design survey for the roadway improvements including over 4 miles of roadway location and more than 73 acres of topographic surveying.
- ❑ **SC 5, York County, SC**—For this +6 mile widening project, Mr. Bailey served as survey manager. He oversaw the Construction Surveying for this project including survey control, bridge control for construction, drainage layout and slope stakes. Mr. Bailey also produced grade cut sheets, staking diagrams, slope stake spreadsheets and QA/QC.
- ❑ **SC 4 / SC 400 – Orangeburg County, SC**- For this intersection improvement project, Mr. Bailey served as survey manager and coordinated 2 survey crews providing clearing limits, utilities, drainage, fine grading, asphalt grade checks, right-of-way markers and final right-of-way report and QA/QC.
- ❑ **SC 34, Darlington and Marlboro County, SC** – ±7 mile survey with 5 bridges. Mr. Bailey was Project Manager handling all survey data reduction, GPS control network, deed and right of way research, and CAD (Microstation) drafting and deliverables.
- ❑ **+2500 Acre Boundary Survey, Hoke County, NC** - Mr. Bailey was a survey technician on this project and created Excel spreadsheets from the hand written field notes. Using Excel functions to determine average angles and distances and the raw traverse closures, Mr. Bailey was able to identify potential errors at specific stations within the traverse. As a result, the initial traverse was salvaged, which allowed the boundary plats to be completed and submitted on schedule.
- ❑ **+4000 Acre GPS Ground Control Survey, Fort Bragg, NC** - Mr. Bailey organized an eight man survey team to perform over 150 static GPS sessions and field processed data for quality assurance. He also compiled the target locations nightly, planning the next days GPS sessions using Ephemeris data to insure satellite coverage and maximum data collection. Mr. Bailey worked on-site with the Photogrammetrist to identify natural features to be surveyed and used as control targets.
- ❑ **SC 377 Bridges over Black River and Swamp, Williamsburg County, SC** - ±6 mile, 4 bridges, and ± 90 properties. Mr. Bailey was Project Manager handling crew coordination, GPS planning and networks, deed and right of way research, survey data reduction, and all CAD (Microstation) drafting and deliverables.

- ❑ **U.S. 17 Widening, Beaufort and Colleton County, SC** - ±22 mile. Mr. Bailey's responsibilities included GPS control network (including aerial photography targets), deed and right of way research and drafting.
- ❑ **Camp Welfare Road, Fairfield County, SC** - ±2.5 mile. Mr. Bailey was the project manager of this project, which proved difficult for the survey team due to existing road bed conditions steep cut and fill areas for graded ditches. Included in the survey limits were two bridge crossings which required over 1200 ft of stream cross sections for possible future bridge replacements.
- ❑ **NC FEMA Flood Map Modernization, Various NC Counties** - Mr. Bailey worked as a survey technician in the bridge survey aspect of the floodway modeling. Taking static GPS data, cross section survey data, and site digital photographs, Mr. Bailey post-processed the GPS data, translated and rotated the conventional survey data, exported reduced data into an ACSII formatted for the client's GIS program. Mr. Bailey also used the client select server to log onto their GIS database and upload survey data and digital photographs.
- ❑ **Bobby Jones Expressway, North Augusta, SC**—Dennis Corporation is responsible for all of the surveying associated with the right of way work on this +6 mile project. As Survey Manager, Mr. Bailey coordinated in-house GPS capabilities along with subconsultants to establish survey grade control for construction for the entire Phase II of the project. Mr. Bailey managed the establishment of right-of-way lines along the entire Phase II corridor and managed the production of the final right-of-way report.
- ❑ **Copper Beach Townhome Community, Columbia, SC**—This construction staking project covered over 24 acres and included all infrastructure for the 30 building townhome development. Mr. Bailey served as survey manager for this project.
- ❑ **Leesville Road, Wake County, NC** - Mr. Bailey was Project Manager responsible for all survey needed for the widening project including survey crew coordination, control network, DTM modeling, all CAD (Microstation) drafting, Right of Way and property surveys, plat preparation for Right of Way and Easement Acquisition.
- ❑ **Jones Sausage Road, Wake County, NC** - Mr. Bailey was Project Manager responsible for all survey needed for the widening project including survey crew coordination, control network, DTM modeling, deed and right of way research, all CAD (Microstation) drafting, Right of Way and property surveys, plat preparation for Right of Way and Easement Acquisition.
- ❑ **Tryon Road, Wake County, NC** - Mr. Bailey was Project Manager responsible for all survey needed for the widening project including survey and SUE crew coordination, control network, DTM modeling, property and right of way research, all CAD (Microstation) drafting, Right of Way and property surveys, and plat preparation for Right of Way and Easement Acquisition.
- ❑ **Bridge Replacement Surveys for NCDOT** - Mr. Bailey was Project Manager for multiple surveys for bridge replacement design following the field survey and CAD (Microstation) drafting using procedures as established and required by the NCDOT.
- ❑ **Elk Spur St, Elkin, NC** - ±1.5 mi road widening project. Mr. Bailey was project manager responsible for survey crew coordination, GPS network and baseline control, survey data reduction, deed and right of way research for ±100 properties, and all CAD (Microstation) drafting and deliverables.
- ❑ **McKinney Road, Surry County, NC** - ±2 mi road widening project. Mr. Bailey was project manager responsible for survey crew coordination, GPS network and baseline control, survey data reduction, deed and right of way research for ±50 properties, and all CAD (Microstation) drafting and deliverables.
- ❑ **UNC Chapel Hill, Chatham County, NC** - Mr. Bailey was project manager responsible for survey and SUE crew coordination, survey data reduction, and all CAD (Microstation) drafting for several infrastructure improvement projects.
- ❑ **US64, Henderson County, NC** - Mr. Bailey was Survey Technician responsible for survey data reduction and quality control, deed and right of way research, and all CAD (Microstation) drafting.

□ **Multiple SCDOT “Safety Projects”** – Mr. Bailey managed two survey technicians drafting SUE survey data and information from utility records on many projects operating at the same time.

Software and Equipment Experience

- ⇒ AutoCad 2007, Land Development Desktop 2i
- ⇒ Microstation V8, Geopak 2004
- ⇒ Ashetech Solutions
- ⇒ Trimble Geomatics Office
- ⇒ Terramodel
- ⇒ ArcView
- ⇒ Microsoft Excel, Word, and Project
- ⇒ Total Stations (Topcon, Geodimeter, Sokkia, Trimble)
- ⇒ Data Collectors (Trimble, SDR, SMI)