Position: President
Professional Engineer (IL, MO) Since joining PSBA, Michael has been responsible for project management of all projects located in the State of Missouri. Michael has nearly 12 years of project management experience.

Position: Executive V.P. & Structural Engineer
Professional Engineer (IL, MO, IA, KS) and a licensed Structural Engineer (IL). Since joining PSBA, Charlie has been the corporate officer in charge of structural engineering projects for the firm.

Position: Sr. Engineer
Professional Engineer (IL, MO, IA) Doug has experience in: road design/highway engineering, municipal engineering, abandoned coal mines, subdivisions, water & sewer pump stations & main design, & bridge & culvert hydraulics.

Position: Civil Engineer
Professional Engineer (MO) Matt has provided bridge design services for MoDOT’s BRO program, CDBG and Credit Bridges, construction inspections, surveying, and general civil engineering consulting services.

Position: Project Surveyor
Kevin has extensive experience in field surveys, geodetic, topo, utility, & land surveys, & ROW plat preparation & design. He was the Project Surveyor for the US 136 Rte E Survey & ROW preparation in MO, & Project Surveyor for the Rte 61 project in Clark & Lewis Counties, MO.

Position: Sr. Engineer Technician
Dan joined the Engineering Team of PSBA in 2010 with 22 years of experience in the Civil Engineering Industries. His specialties include Highway Design, CAD Specialist, Plans and Specification Preparation.
For over 48 years, PSBA has been building a reputation for providing quality engineering services and completing projects on time and within budget. Below is a brief description of a handful of past roadway projects that our team has worked on, providing professional services in three states in a variety of ways including surveying, structural engineering and civil engineering, bridge design, intersection design, and road/highway design to name a few.

**Rolling Hills Road Improvement, Boone County, MO**
PSBA led the planning process which included developing a new alignment, facilitating right-of-way acquisition, coordinating geotechnical investigation and relocating several major utilities. The selected urban section includes 4 lane curb and gutter with a raised median, storm water collection, a bike lane, sidewalk, and multipurpose trail. Final plans included design of a box culvert, closed storm water system, intersection at State Rte WW, Cottage Lane, and Columbia Gorge Parkway as well as a temporary intersection at New Haven. PSBA also developed traffic control and staging plans that allowed continuous egress and ingress from the Parkway.

**Design of US 34 Biggsville Bypass (FAP 313) from TR 111 to TR 190, Biggsville, Henderson County, IL**
PSBA provided engineering services required for Phase II contract plan preparation from TR 111 to TR 190, approximately 5.9 miles. The Phase II work included route surveys (pick-up), land surveys, highway drainage design, preparation of type, size, and location plans, structure plans, roadway plans, specifications, and estimates for the project, which is predominantly on a new four-lane expressway on new alignment. The scope of work involved new interchange construction, side road relocations, and structure plans.

**Reconstruction of Stardust Drive, Hannibal, MO**
PSBA provided the City of Hannibal with professional services for the planning, design and construction inspection of the desired improvements. The engineer determined the needs of the City for the project; conducted topographic, property and utility surveys sufficient to develop plans for the project; arranged for subsurface investigations; conducted hydraulic studies, prepared alternative designs and cost estimates, developed preliminary plans, and recommended to the City the best overall general design based on those studies; submitted copies to MoDOT. Based on approvals of the preliminary plans; prepared detailed construction plans, cost estimates, specifications and related documents as necessary for the purpose of soliciting bids for constructing the project. Provision was made in the contract documents for that portion of the work that will be performed by the City’s forces; where required, bridge structures were designed in accordance with the Guide Specification for Seismic Design of Highway Bridges, as published by AASHTO; secured adequate property title information, determined right-of-way requirements, prepared right-of-way requirements, prepared right-of-way plans, and assisted the City of Hannibal in acquiring the right-of-way deeds needed for the project; ensured compliance with water quality requirements by coordinating with the Missouri DNR and the USACE and also ensured compliance with historic preservation requirements through coordination with the Missouri DNR, and arranged to have the site examined by a qualified archaeologist on a subcontract basis; and ensured compliance with all regulations in regards to noise abatement and air quality; and provided the City with sets of completed plans, specifications and cost estimates for the purpose of obtaining construction and authorization from the MoDOT.
Reconstruction of Avenue M – 23rd to 25th Street, Fort Madison, IA The project includes new ADA accessible sidewalk ramps at the intersections and minor improvements to the storm sewer system within the project limits. PSBA completed engineering surveys, prepared preliminary and final plans and drafted contract documents. Contract documents included the advertisement for bids, instructions to bidders, bid form, standard general conditions, supplemental conditions, special provisions and the form of contract. PSBA also prepared the final estimate of construction costs for the project and assisted the City in selecting the lowest responsible bidder to award the contract. Construction engineering consisted of construction staking (surveying) services; construction observation/inspection services and materials testing. PSBA assisted in coordinating construction activities with the City and with other contractors working in the area.

Design for the Construction of 2nd Street – Bank to Carroll and 15th Street from Fulton to Orleans, Keokuk, IA PSBA completed preliminary and final plans, specifications and contract documents and prepared cost estimates. PSBA assisted in advertising the project for bids, reviewed the bids received and made a recommendation on awarding the bid. During construction PSBA provided construction staking services and assisted with construction observation when requested. Design of 15th St. was complicated by the fact that the existing street surface was very narrow. Part of the goal of the project was to widen the street to a width comparable to others in the neighborhood and to improve the flow of traffic on the street. Another complicating factor was that the intersection of 15th St. with Orleans Ave. is in a low area that was subject to flooding. A second goal of the project was to improve drainage in the intersection while accommodating the City’s sanitary and storm sewer separation objectives. The 2nd St. design was complicated by the fact that there was no existing curb and gutter in the section of the street. Street, alley and driveway grades were carefully reviewed to make sure construction would not adversely affect the adjoining properties.

4-Lane Expressway Improvements of US 218, Washington County, IA PSBA provided professional services in connection with the improvement of a 16.2 mile portion of U.S. Highway 218 (Avenue of the Saints), in Washington County, IA. PSBA provided plans and specifications; preliminary bridge foundation design (TS&L’s for 12 new bridges and 3 twin box culverts); minor drainage structures through single barrel RCB’s; full ROW layout and design. Expressway standards were used in the design of this project.

US 218 4-Lane Expressway Improvements North of Donnellson to the Henry County Line, IA PSBA was the prime consultant for improving 9.3 miles of US Highway 218. The improvements consisted of converting 2-lanes to a 4-lane expressway. Elements of the project were as follows: project survey; aerial mapping; public hearing displays; geotechnical services; bridge hydraulic and condition reports; structural TS&L plans for 3 new bridges and 4 new box culverts; and preliminary and final plans. The project was developed by PSBA on MicroStation SE and Geopak Design software.

PROJECT SPOTLIGHT
Design for the Construction of 2nd Street from Bank to Carroll and 15th Street from Fulton to Orleans – This project involved total reconstruction of approximately four blocks of 2nd Street and two blocks of 15th Street.