Traffic Engineering & TEAP
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: Civil Engineer
Professional Engineer (IL, MO, IA). Zach has extensive experience with Share Use Trails, Safe Routes to School Projects, Site Design, Environmental, and general civil work. Zach has worked in the field as a project engineer and as a material/construction inspector.

Position: Civil Engineer
Professional Engineer (IL, MO, IA) Nate’s experience includes Municipal Design, Road/Highway, Site Design, Environmental, and general civil work. Nate has worked in the field as a survey technician and as a material/construction inspector.

Position: Electrical Designer
Todd focusses on electric and communication design. Todd has experience in signal design, camera detection and security, and street lighting.

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.
Poepping, Stone, Bach & Associates, Inc. has extensive experience in all facets of engineering for traffic engineering and TEAP and we have the qualifications, experience, and the team needed to complete these services in a manner that will more than meet your expectations. Below is a brief listing of traffic engineering and TEAP projects that we have recently completed or are currently working on.

**Intersection of 48th & State Street Round-About, Quincy, IL**
PSBA completed a Feasibility Study and Intersection Design Study (IDS) of traffic control options for the proposed intersection improvement at 48th and State Streets in Quincy, IL. The feasibility study compared two alternatives for the improvement of operations and safety of the subject intersection. Specifically, the installation of traffic control signals versus construction of a roundabout. Existing traffic data was collected, and accidents for the last five years were provided by the Adams County Highway Department and the City of Quincy. Capacity analyses were performed for both alternatives for comparison of their operation effectiveness, and each alternative was analyzed as a potential countermeasure for the accident types recorded for their effectiveness on safety. Estimated construction costs were compared and an alternative was recommended.

**Improvement of Highway 61 & 48th Street Intersection with New Dedicated Turn Lanes and New Camera Actuated Traffic Signals, Fort Madison, IA**
PSBA provided Preliminary (Design) Engineering including: completing preliminary (engineering design) survey; preparing preliminary project plans; preparing preliminary right-of-way layout requirements for the project; attending public hearings as needed; preparing final design of grade and paving contract; developing special provisions that were required and preparing the final estimate of costs for the project. Construction Engineering consisted of: construction staking (surveying) services; construction observation/inspection services and materials testing. The Engineering for Land Acquisition consisted of: Surveying for property acquisitions (Right of Way, Easements, etc.) and preparation of land transfer (Right of Way, Easements, etc.) documents. All the above was for the design of improvements on Highway 61 and incidental intersection work utilizing Primary Highway Design Criteria as specified in the Iowa Department of Transportation’s Road Design Manual. Improvements on 48th Street was designed in accordance with Urban Design aids as specified in the Federal Aid Project Development Guides as development by the Iowa Department of Transportation for Local Public Agencies. Traffic signals were designed and constructed in accordance with the latest edition of the Manual of Uniform Traffic Control Devices.
Truck Bypass Feasibility Study, Nauvoo IL This project was awarded to PSBA by the City of Nauvoo and the Illinois Department of Transportation through a $250,000 State grant. The feasibility for a truck route was studied as a way to divert truck traffic from the cheese factory and grain elevator away from the downtown area and the new Mormon temple. The scope of work included the development of three different truck route configurations, the recommended routing of commercial trucks and analyzing each route, capacity and levels of service, drainage and accident studies, traffic counts, right-of-way acquisition, environmental assessment, historic site locations, flood hazards and cost estimates. The study involved having aerial photography flown for the City and surrounding area which was used for an accurate base map and for display mapping. As part of the study, new parcel mapping, topographic mapping, road right-of-way, zoning and utility maps were created as an overlay on the aerial photography. The project was completed by working with a committee comprised of members from the City of Nauvoo, Hancock County, IDOT, Nauvoo Township, and Nauvoo Restoration Inc. and a public hearing was held to present the completed study.

Construction of Maine Street Between 4th & 10th Streets, Quincy, IL PSBA provided the Phase II design engineering services for the reconstruction of Maine Street through the Central Business District of Quincy, IL. The section was 2,699.3 feet in length. This project raised unique challenges because of the 100+ years of past improvements along this corridor. Much of the work took place behind the curbs where sidewalks were removed and replaced and the addition of a 4-ft wide brick paver median was installed next to the parking lanes. Seventy-eight new period style street lights were included to comply with recommendations from the 1996 Recommended Actions for the Revitalization of Quincy’s Central Business District. Intersection improvements included incorporating ADA compliant handicap ramps and obsolete traffic signals were removed. The three intersections that still warranted signals were provided with modern, high-efficiency equipment. Urban design landscaping improvements included all new tree plantings that are better suited for a harsh, dense commercial environment. Several meetings were held with the many commercial businesses, offices and residents directly affected by this improvement. Feedback from these community meetings allowed modifications to the final design to better meet the varied needs of the users in this urban corridor. PSBA also had to deal with the myriad of hidden challenges that included basement vaults extending to the street, unknown abandoned utilities and existing water, storm and sanitary sewer adjustments and relocations.