



QUIGG ENGINEERING INC

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## MICHAEL T. MATZKE, PE, PLS

Project Manager/Project Engineer

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### PROFILE

Mr. Matzke has over 33 years of transportation engineering experience working with various state highway and local road projects throughout the State of Illinois. He has been involved with all aspects of Phase I and II roadway design, including drainage, traffic management/analysis, signalization and right-of-way documents. These roadway projects include two-lane local county/township roads to multi-lane interstate highways and tollways that involve overpasses and interchanges.

He also has been involved with the preparation of site development construction documents for various project sites located in Illinois, Iowa and Missouri. These site development projects include the design of parking lots, traffic access, storm drainage, and site utility coordination.

Being a licensed Professional Land surveyor (P.L.S.) in the states of Illinois and Iowa, he also has experience in providing design, control, topographic, construction layout and property surveying for a wide variety of projects that require surveying services.

### PROFESSIONAL EXPERIENCE

November 2008 to present

Project Manager/Engineer for Quigg Engineering Inc.

PTB 144/26, Phase II for I-55 & I-72, IDOT District 6– 2008

Prepared roadway plans, specifications and estimate, including Maintenance of Traffic and Stage Construction details for two structure replacements over Interstate 55 around Springfield. Traffic control was a major project issue due to the high traffic volumes on both I-55 and I-72.

Illinois Department of Transportation, District 3

FAP Route 591 (US 34) from Sandwich to Plano

Obtained topographic survey data for 4.5 miles along US 34. Also collected traffic counts for 10 intersections using Hi-Star NC-97 Traffic Analyzers. Included collection and processing of traffic data throughout the corridor, including manual counts of peak hours.

City of Champaign, Street Improvement – Topographic Surveys

Streets: Thornton Road, Hedge Road, Newbury Road, Winston Drive, Williamsburg Drive, Curtis Road

Provided topographic surveys for six streets located in Champaign, IL. Some of the streets were previously surveyed and required verification of the previously surveyed data. The surveys included determining the locations of existing utilities within the public street right of way. The survey information will be used to complete the design for proposed street improvements. The surveys were completed within a short time frame to accelerate the project schedule.

June 1975-November 2008

Hanson Prof. Services

Project Manager/Engineer. Experience with IDOT includes both Phase I planning and Phase II final design engineering, preparation of project reports, intersection/ interchange design studies, signal design, drainage studies, contract plans, and specifications. Also site design projects throughout Illinois, Iowa and Missouri.

Phase I/II for I-57/64 & Veterans Memorial Drive Interchange, City of Mount Vernon, IDOT District 9

Prepared preliminary design study and the final design and preparation of construction bid documents and right-of-way plans for a new \$18 million interchange at Veterans Memorial Drive. The existing Veterans Memorial Drive was extended to the west to a new interchange with I-57/64. The existing two-lane street was widened to four lanes, and two new at-grade intersections were designed along with new interchange ramps. Also, new access drives were developed to provide access to adjacent private properties. This project required significant coordination with various public agencies and the local public.

#### Phase I/II for IL Route 336 Expressway, Adams and Hancock Counties, Illinois

Prepared preliminary design studies for a 32-mile segment of four-lane highway located in western Illinois from US Route 24 to Carthage, Ill. and also for the preparation of construction bid documents and right-of-way plans for the first 6.5 miles from US Route 24 to IL Route 61. This four-lane expressway design was to be built on a new highway alignment with one major stream bridge crossing, two new interchanges, and several minor drainage crossings. One of the key issues for this project was the coordination with local land owners to assure good access during construction and after construction of the new expressway. The project also required significant coordination with various public agencies to meet the various permitting requirements. The project was divided up during the final design phase into various paving and grading bid contract sections and completed over a five-year period.

#### Phase II for I-39, Rutland to Wenona, IL, IDOT District 4, Marshall County

Prepared final design plans for bidding documents and right of way plans, plats and descriptions for the construction of I-39 on a new alignment in Marshall County, IL. This 4.5 mile section of four-lane freeway included one diamond interchange, two grade separations for local road access and one dual grade separation over the BNSF railroad tracks. Due to the relatively flat terrain, the drainage design was critical to provide good drainage for the freeway section while maintaining the existing drainage patterns for the adjacent rural farming areas. Numerous small drainage structures were designed to handle the existing storm water drainage and specific erosion control measures were included where necessary. Final plans and specifications were prepared for separate grading and paving contracts. Significant coordination was required for the various public agencies and the local public.

#### Decatur Indoor Sports Center - Decatur Park District

Prepared preliminary and final construction documents for the site development of an 87,000 SF indoor recreational sports facility. The planning efforts included initial concept planning for the site design and facility layout. Worked closely with the Decatur Park District to develop a new facility that would meet the needs of the owner/user and provide an attractive and environmental/efficient facility, while minimizing the construction costs. The project site design efforts included site grading, drainage structures, storm water detention, parking layout, pedestrian sidewalks with ADA access and new utility services. The project also included upgrades to the surrounding public sidewalks and street curbing including a segment along a street maintained by the Illinois Department of Transportation. Project review permits were obtained from various state and local public agencies to obtain approval of the proposed construction.

#### Joint Armed Forces Reserve Center, Jefferson Barracks, St. Louis, MO

Prepared site development design for the new development at this existing military installation. Completed the design and preparation of construction plans and specifications for a 19-acre site that include two large new parking lots, one for personal vehicles (418 vehicles) and the other for military vehicles and equipment. Also involved with coordination meetings with military personnel to determine the layout of the new buildings and vehicle access to meet the Department of Defense minimum anti-terrorism standards. Completed the design of access drives, parking layout, site grading, new utility services and drainage/detention facilities that would comply with current water quality design standards through the St. Louis Metropolitan Sanitary District. Site demolition included the removal of three buildings with hazardous material removal and the removal of various existing site utility services.

#### Simmons Cooper Cancer Institute, SIU School of Medicine, Springfield, IL

Prepared site development design on this \$17 million new health care facility. Responsible for the design and preparation of the construction plans and specifications for two parking lots for a total of 95 vehicles, site drainage/detention, new utility services and two new entrances to existing City of Springfield streets. Special landscape design features included a pedestrian walkway bridge and a pergola that required significant coordination of nearby underground utilities during design and construction.

Prairie Cardiovascular Institute, Springfield, IL

Prepared site development design for a \$10 million new health care facility for the treatment of cardiovascular diseases. The project included the preparation of the construction plans and specifications for a circular access drive and parking lot for a total of 55 vehicles, site drainage/detention, new utility services and two new entrances to existing City of Springfield streets. Provided land surveying services for the vacation of a portion of an existing alley, and designed a new alley access to maintain access to remaining adjacent properties. Significant coordination of aboveground and underground utilities was completed during the design and construction phases.

Assembly Hall Renovation, Access Drive/Underground Entrance

University of Illinois, Champaign -Urbana, IL

Prepared construction documents for a new access drive and entrance into the Assembly Hall underground access area. The project included surveying for the existing topographic features, storm water design to handle storm water runoff to an existing storm sewer. The design of a new storm water detention pond was required to minimize impacts to the existing storm water system. Pavement design including new curb/gutter, site grading and erosion control were all a part of this project to provide better access to the existing research facility. Construction bid documents were prepared for distribution to bidding contractors.

Numerous County Bridge Replacement Projects

Stark, Peoria, Tazewell, Woodford, Fulton, LaSalle, Kankakee, Mclean, Sangamon Counties, IL  
Prepared construction bid documents for County and Township Bridge Replacement projects in various counties in Illinois. These projects typically included replacing an existing deteriorated bridge structure with a single span or multi-span bridge structure using a concrete or steel superstructure. The projects also included varying lengths of approach roadway improvements on both sides of the bridge structure that required the design of various drainage structures, ditching and erosion control. Right of way plats and descriptions were prepared for many of these projects to acquire the required right of way needed for the proposed improvements. A project development report and coordination with various public agencies were required on all of these projects.

**EDUCATION**

Bachelor of Science, University of Illinois-Champaign, 1975  
Associate of Science, Lincoln Land Community College-Springfield, Illinois 1973

**REGISTRATION**

Licensed Professional Engineer-Illinois  
Licensed Professional Land Surveyor-Illinois  
Licensed Professional Engineer-Iowa  
Licensed Professional Land Surveyor-Iowa  
Licensed Professional Engineer-Missouri

**MEMBERSHIP**

National Society of Professional Engineers  
Illinois Society of Professional Engineers  
Illinois Professional Land Surveyor Association