Company Profile

Who We Are

MECO has an established reputation as a leading provider of public works engineering. We provide sound engineering solutions and only the best in client-focused service. We serve municipalities, water and sewer districts, counties, state agencies, universities, school districts, and private sector clients throughout Missouri and Central Illinois. Our dedication to meeting our client’s needs shines through quality workmanship and personal service.

MECO is a locally owned firm founded in 1985 in Hannibal, Missouri. Our corporate office is located in Hannibal with operations augmented by offices in Jefferson City and Boonville, Missouri. We serve our West Central Illinois clients through our Pittsfield office. MECO Engineering Company is a corporation with principals, owners, a Board of Directors and officers. 85% of our clientele are municipalities and water districts.

Our team will take your project from the initial concept, development and study phase, through the design, finance planning and permitting, and on to construction, without delay and on budget. Success depends on more than designing outstanding projects. Our success is dependent on building enduring, valued relationships. We continue to grow through timely completion, superior work, responsiveness, and exceptional client satisfaction.

Corporate Structure

Scott E. Vogler, PE  
President & Owner,  
Senior Principal Engineer | Director of Engineering (Jefferson City)

Max F. Middendorf, PE  
Vice President & Owner  
Principal Engineer | Secretary of the Board of Directors  
Assistant Director of Engineering | Illinois Office Manager

James D. Bensman, PE, SE  
Vice President & Owner  
Principal Engineer | Director of Engineering (Hannibal)  
Senior Structural Engineer

Our Capacity

33 Employees  
4 Offices

10 Professional Civil Engineers (PE)  
Specializing in:  
Municipal,  
Environmental  
Structural/Bridge (SE)  
Mechanical Electrical (MEP)

3 Engineers (non-registered)  
2 Professional Land Surveyors (PLS) Missouri/Illinois Surveys  
1 Certified Floodplain Manager (CFM)

Clients:  
Governments  
Universities/schools,  
Private sector clientele

Emphasis:  
Municipal  
Water district,  
Governmental engineering

Pre-Qualified:  
Missouri Department of Transportation (MoDOT)  
MoDOT LPA Consultant  
Illinois Department of Transportation (IDOT)  
Illinois Capital Development Board (CDB)
TRANSPORTATION DESIGN
local streets, sidewalks, related storm water

MECO’s professional team works daily with our municipal, county, university and private sector clients to develop transportation systems of all types and scopes, including highways, connector and local streets, county roadways and bridges. We understand the importance of working hand-in-hand with our local governments, public and private stakeholders and regulatory authorities. You can depend on our Transportation team to work collaboratively to deliver innovative, long-term transportation solutions that stay within planned budgets.

Our Civil Engineering Capabilities:

MECO’s Civil Department focuses on the specialized engineering discipline that relates to general civil, site civil, storm water planning and management, utility design, parking lots, drives and sidewalks, subdivision and site development and miscellaneous engineering needs not specifically related to transportation or public utilities. Our work involves projects for public sector clients, state and not-for-profit agencies, universities and school districts, residential, commercial, and industrial clients.

Construction Cost Efficiency (Value Engineering):

Value Engineering provides a systematic approach in comparing function versus cost. Value can either be increased through improving the materials and goods or reducing the cost. This process starts at the inception of the design and will continue until construction documents are issued. The project is reviewed at initial plan development, Preliminary Design and Final Design with plans, specifications and documents. With this information close at hand, the project can be evaluated for function versus cost and how it affects the overall budget.

The design solution will meet numerous and various needs, including the cost of construction, ease of construction, cost of maintaining the parking lot system into the future, and compatibility with ADA and use requirements necessary for the sidewalks and ramps. During the design phase, MECO project engineers will adhere to a value engineering approach. Practical, long-term, and cost effective solutions for improving the design are created through consulting with our own in-house and industry experts. The goal is to generate better designs and processes to ultimately create savings for our client.

Familiarity with Design Requirements:

As a municipal and civil engineering firm, MECO offers in depth and extensive knowledge of the planning, design and construction of public works transportation infrastructure. Our work serves a variety of needs from streets and roads, to bridges, trails and sidewalks, our design adheres to MoDOT, FHWA, and applicable ADA design standards. MECO brings decades of experience working in Missouri to improve communities through the design and construction of local streets, sidewalks, and parking.
Our Experience

GENERAL PROJECT EXPERIENCE
Streets, Roadways, Storm Water, Sidewalks

City of Truesdale, Missouri
Street Widening & Intersection Improvements
James D. Bensman, PE, SE  Project Manager | Design Engineer Vice President | Principal Engineer

Scope of Work:
MECO is providing the City of Truesdale engineering services to improve approximately 4,700 linear feet of concrete roadway with curb and gutter on Market Street, Depot Street, Smith Street, Water Street, and a railroad crossing over the Norfolk Southern Railroad Tracks. Services provided are engineering and topographic surveying, Including locating existing improvements, ground terrain, establishing right-of-way lines of existing roads, and utilities as located by utility companies from a Missouri One Call request.  Design new concrete roads with curb and gutter and associated storm water drainage inlets and piping. Other services we provided were construction bidding, construction management and construction observation.  Our staff is coordinating with Norfolk Southern to obtain required construction permit. MECO is also assisting the City with preliminary coordination of non-railroad utility relocations. The project is currently in progress.

West Ely Road Rehabilitation,
City of Hannibal, Missouri
James D. Bensman, PE, SE Project Manager & Engineer

Scope of Work:
A complete reconstruction project of a five-block section of West Ely Road called for widening and improving the narrow and deficient roadway. The drainage system was improved through the design of new storm sewer, drainage ditch, and a detention basin. Driveway modifications were required along the route as the new roadway was construction. The important Head Lane intersection was also enhanced by this project. Various construction activities were necessary to complete the $875 project including excavation of existing pavement and replacement with:

- 7,601 SY 4” thick aggregate base,
- 7,601 SY 8” thick non-reinforced PCC pavement,
- 3,100 LF 30”concrete curb/gutter,
- 1,070 SY 6” thick PCC driveway
- 711 SY 6” thick driveway apron

Other Activities Included:
- 2,182 LF storm water pipe (12”-30”);
- One concrete headwall and concrete flume;
- 18 drop in-lets,
- 88 SY Type 2 ditch liner,
- Erosion control and site restoration

MECO provided engineering design, project management and survey services. The City conducted construction observation services.
Our Experience

City of Pittsfield, Illinois
Turn Lane & Drainage Improvements
Max F Middendorf, PE  Project Manager | Design Engineer Vice President | Principal Engineer

Scope of Work:

MECO engineering assisted with the planning, design and construction phase of a right turn lane, roadway design and drainage improvements at the intersection of US 54 and Kamar Drive. Kamar drive was originally a graveled roadway that serves a concrete plant and truck washing station. Issues of visibility, safety, and heavy traffic prompted the redesign, paving, and turn lane addition. The turn lane allows for trucks to make right turns out of the way of traffic flow on the highway. A second driveway on HWY 54 was eliminated and fed into Kamar drive to decrease the amount entry points onto the highway.

City of Troy, MO
Chantilly Subdivision

Scope of Work:

Prepare plans and specifications for a residential subdivision in Lincoln County, Missouri. As a part of this project, we coordinated with the Public Water Supply District #1 of Lincoln County (PWSD), and assisted with the preparation of construction permit applications for Missouri Department of Natural Resources (MoDNR) for approval of land disturbance activities, water distribution, gravity sewage collection, sewage lift stations and forcemains (within the subdivision).

The work Included:
- Grading plans
- Roadway designs
- Storm water collection and detention plans
- Marking lot corners according to Missouri minimum standards
- Preparation of subdivision plats
- Submittals & correspondence with the PWSD & MoDNR for grading & utility construction permits
- Storm Water Pollution Prevention Plan
- Responded to the PWSD and MoDNR as they relate to our design.
- Construction staking