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)
Our Experience

Bridge Design & Missouri Department of Transportation (MoDOT)

MECO’s Structural engineers bring nearly 50 years of combined experience in the planning, design, project coordination, management, and construction engineering of various types and sizes of structures. They have worked with a variety of clients including county, local and state governmental entities and private sector companies.

Our bridge engineers are specialists in managing projects funded through the MoDOT BRO/BRM and Surface Transportation Programs (STP). Critical funding allows local governments the opportunity to improve their transportation infrastructure at a realistic cost to the citizens. While the Off-System Bridge Replacement (BRO) Program is generally utilized for larger structures, the Surface Transportation Program (STP) can be used for roads and special local projects including sidewalks. Through our decades of work using these important funding tools, we are experts with the federal requirements that govern the various MoDOT Programs.

Planning and coordination are key to the success of any MoDOT funded project. Specific and mandated deadlines and schedules must be met to achieve compliance and reduce risk of loss of funding. Our team works closely with the client to monitor project progress, maintain schedules, make prompt application of required permits, and ensure that all LPA, ADA, and other requirements are met throughout the project. Our Project Managers are always available to meet the client, their representatives, and MoDOT personnel for all technical discussions during planning, design, and construction phases. We ensure project progress and compliance, and meet project schedules and budgets.

Mr. Bensman, as Project Manager, will be present at all meetings, and assisted by various team members as project activities dictate. The schedule and budget will be reviewed throughout the course of the project. Workshops can also be held to discuss details as needed. MECO is a MoDOT pre-qualified firm and is listed as eligible on the MoDOT approved consultant’s list. Our Project Managers, engineers and technical staff have attended the required LPA training and are well versed in the MoDOT LPA requirements. Our construction technicians are MoDOT site and concrete certified.

LPA Certified Project Managers
President/ Senior Principal Engineer Scott E. Vogler, PE
Vice President/Principal Engineer James D. Bensman, PE, SE

Stream Bank Stabilization: Stream bank stabilization is an integral part of all bridge design projects. MECO’s Structural and Bridge Division has extensive bridge design experience and therefore an extensive understanding of stream bank stabilization. Bridge design incorporates fluvial geomorphic analysis as required to design stable slopes associated with the bridge structure. These technical capabilities can be applied to any point on a particular stream. Eroding stream banks can be addressed using methods such as bio-stabilization plantings, rock revetment, or retaining walls. Selection of the method best suited to the particular project is based on factors such as soil conditions, budget, environmental concerns and community relations.
**Keller Bridge | Bridge No. 289000111 on Country Road 153 over Keller Branch (Credit Bridge)**

**Marion County | Northeast District**

MECO was selected as the bridge engineer by the Marion County Commission to design a replacement bridge over Keller Branch, replacing an aging and undersized structure. The project was submitted for soft match credit under the Federal Highway Administration’s off-system bridge replacement (BRO) program coordinated by the Missouri Department of Transportation. MECO provided complete bridge engineering and design services, land survey, easement and right-of-way (ROW) acquisition assistance, project management, contract administration, construction engineering, construction management and observation services for this project. Construction of Keller Bridge was completed ahead of the 60 Day schedule and under budgeted funds as reflected by the final costs.

**Engineer’s Estimate:** $230,409.20  **Low Bid** $200,776.34  **Final Contract Amount:** $199,682.99

**Bridge Description & Services**

- Single Span (55’) pre-stressed concrete deck beam bridge with low-slump concrete wearing surface
- Bridge superstructure
  - Integral end bent abutments supported by H-piles
- Studies (Sub-consultants)
  - Geo-technical investigations
  - Phase I Cultural Resource Survey
- Existing bridge removal
- Excavation/filling/grading
- Rock slope/abutment/embankment protection
- Aggregate surface roadway, guard rail, incidental work
- Hydraulic and hydrologic design/analysis
- R.O.W. & easement document preparation
- Land acquisition assistance to County
- Permit acquisition including environmental clearances
- Correspondence coordination with
  - Missouri Department of Transportation (MoDOT)
  - US Army Corps of Engineers
  - Missouri Department of Natural Resources State Office of Historic Preservation
  - Federal Emergency Management Administration (FEMA)
- Project Coordination with client/MoDOT/public agencies/private landowners/other interested parties
- Construction Management
- Construction Observation
- Bridge Certification and dedication

**Client Contact Information:**
Marion County Commission | Palmyra, Mo
Teya Stice | Marion County Coordinator
573-769-5545
Bridge Profiles

Bridge No. 14700211 on Country Road 506, BRO-BO63 (7)
Maries County | Central District

MECO was selected as the bridge engineer by the Maries County Commission to design a replacement bridge on County Road 506, replacing an aging and undersized structure. MECO provided complete bridge engineering and design services, land survey, river survey, easement and right-of-way (ROW) acquisition assistance, project management, contract administration, construction engineering, construction management and observation services for this project.

Final Contract Amount $ 340,501.20

Bridge Description & Services
- Three-span (44’-44’-44’)
  Bridge substructure design
  (End bents on H-Piles/intermediate column bents on drilled shafts)
- Bridge superstructure design
  Pre-stressed I-girder beams, concrete slab, cast in place concrete bridge rail
- Existing bridge removal, embankment protection, aggregate road surface design, incidental work
- Professional Services
  Prime consultant- bridge engineering & design
  Full site and river survey
  Hydraulic and hydrologic design/analysis
  Land acquisition assistance to County
  Permit acquisition including environmental clearances
  Correspondence coordination with MoDOT/US Army Corps of Engineers/MDNR-SHPO/FEMA
  Project coordination
  Preliminary and final design
  Production of plans, specifications, contract and bid documents
  Bid and contract award phase assistance
  Contract administration
  Construction engineering
  Project management
  Construction management / observation
  Bridge certification / closeout / dedication
- Sub-Consultant Services- Subsurface geo-technical investigations

Client Contact Information:
Maries County Commission | Vienna, Mo
Ray Schwartze | Presiding Commissioner
573-422-3388