



MECO ENGINEERING COMPANY, INC.
ENGINEERS + SURVEYORS

2701 Industrial Drive – Jefferson City, Missouri 65109
Ph. (573) 893-5558 – Fax (573) 893-5404

November 15, 2013
001-646/ 041-335

Mary Ann Jacobs, MoDOT Central Office
Email: MaryAnn.Jacobs@modot.mo.gov
RE: **Pre-Qualification for LPA On-Call Services - Structures**

Dear Mary Ann:

MECO Engineering Company, Inc. (MECO) is pleased to submit this Letter of Interest with attachments for pre-qualification as a consultant for LPA On-Call Services. Our firm is well-positioned and highly qualified to be considered as a Pre-Qualified consultant based on expertise, knowledge, experience, and familiarity with LPA program requirements. We provide proximity through our three offices located in Hannibal, Jefferson City and Boonville. We offer you exceptional leadership and capacity relating to LPA projects.

Our Firm: MECO is a leading provider of municipal and county engineering services since 1985. As a full-service civil engineering and land surveying firm, MECO offers a wide range of disciplines and services to meet clients' project requirements, including regulatory compliance. Should specialized services be required, such as soils or geotechnical investigative services, those services will be contracted through a professional sub-consultant. Through our respect for diversity, we effectively engage and work with minority-owned firms to provide specific skills and services, including geotechnical engineering and other specialty services.

MECO's strength in bridge engineering, design and administration of the BRO program is respected and well-documented. We are well-positioned to provide the specialized services required to take your project from planning and design, MoDOT approvals and permitting, and into construction and final certification. Our firm has worked closely with MoDOT and the BRO Program for nearly three decades, completing bridge replacement projects of various types and sizes for our county clients. MECO is a MoDOT approved Pre-Qualified Consultant (Expiration dates: E-Verify 1/28/2014; Financial 5/14/2014; Basic Training 1/1/2015) and has **two Certified LPA Project Managers: James D. Bensman, PE, SE/Scott E. Vogler, PE.**

Our Experienced Project Team: **Structural Engineer James D. Bensman, PE, SE** will serve as overall **Project Manager and Project Engineer**, providing structural and bridge engineering services and complete oversight of bridge projects. Mr. Bensman leads our Structural Department with 16 years of extensive structural engineering, bridge design and related experience, including the design of over 40 structures of various types, including single span/multi-span, box culverts, double tee, and concrete pre-stressed I-girder bridges. He provides cost efficient design solutions that meet specific project site and budget requirements and works extensively with the federal Bridge Replacement Program (BRO-BRM) for LPA projects.

As the **Project Engineer**, Mr. Bensman will be responsible for or supervise schematic design, design development and final design phases, hydraulic studies/calculations, calculation of cost estimates, permitting, geotechnical investigations (provided by sub-consultant), roadway realignments/geometry, pavement design, and production of ROW plans, detailing and design plans, bid and contract documents, construction drawings, and maps, and construction engineering. The construction engineering phase, including contract administration, construction management and observation, is the implementation of the design ideas and goals into physical form. All record keeping and submittal requirements will be in accordance with the MoDOT Local Public Agency (LPA) Manual and design guidelines.

Mr. Bensman will be the Primary Point of Contact for all bridge/structure projects awarded to the firm. This single point of contact provides you with assurance of communication throughout the project, continuity, and dependability. He may be reached at our Hannibal Office (3120 Hwy W, Hannibal MO 63401), by phone (573-221-4048) or email at jbensman@mecoengineering.com.

Vice President/Principal Engineer/Director of Engineering Scott E. Vogler, PE will be assigned responsibilities as **Assistant Engineer** and will assist Mr. Bensman with projects located in the Central, Kansas City and Southwest Districts. Mr. Vogler provides three decades of engineering excellence, including the design of over 50 structures throughout his career. Should the LPA project location fall within the service delivery areas of the Jefferson City or Boonville Offices, Mr. Vogler will assume responsibility for contract bidding, award, and construction management and observation services, with personnel deployed from the appropriate office to provide cost efficiency, prompt response, and accessibility to the client. As Construction Manager, he would also be the Point of Contact (Phone: 573-893-5558; Email svogler@mecoengineering.com).

Project Support Team Members: **Jane M. Rushford, CFM** is a Certified Floodplain Manager, experienced in state/federal requirements regarding Floodplains/ Floodways/ Wetlands. Mrs. Rushford will work directly with Mr. Bensman, performing hydraulic studies (HEC-RAS), preparing permit applications, and contract documents. **Survey Manager Kevin L. Bock, PLS (Hannibal) or Ronald E. Kliethermes, PLS (Jefferson City)** will perform field surveys (topographic/boundary as required), prepare easement descriptions and documents, Right-of-Way plans, and ROW acquisition services as required/requested. The survey crews will be deployed from office in closest proximity. **Technician III Jared T. Stewart (Hannibal) and/or Designer II Alan J. Scheperle (Jefferson City)** will be responsible for the production of constructible drawings and related work, dependent on project location.

Construction Technician James M. Puskar (Hannibal) or Inspector II Drew Hake (Jefferson City) will be responsible for construction observation services, again, dependent upon LPA project location. Mr. Puskar brings nearly 40 years of experience to **MECO's** construction projects and is MoDOT certified for Concrete Field Inspection/Testing. Also MoDOT Concrete Field Certified, Mr. Hake has 25 years of field experience. Both men provide expert oversight during all phases of construction to ensure your project is constructed as designed, and in accordance with MoDOT and local standards. **QC/QA:** As Vice President and Principal Engineer, **Max F. Middendorf, PE** will be the Principal-in-Charge and will provide Quality Control/ Quality Assurance, providing review and oversight of production of the plans, specifications, and documents. **MECO's QC/Q plan** was adopted March 2007.

Programming: To meet MoDOT eligibility requirements for federal funding, **MECO** would ensure that all proposed design improvements listed on the Programming Data are entered according to the guidelines and requirements of MoDOT Engineering Policy Guide sections 136.1 and 136.7.2.2. **Bridge Engineering and Design:** Our design process includes coordination with the LPA client and staff, locally affected property owners (as requested and/or required), regulatory agencies such as U.S. Army Corps of Engineers and Missouri Department of Natural Resources and the applicable MoDOT District. The project will be designed and constructed in accordance with the applicable Missouri Department of Transportation and AASHTO Bridge Design Standards and any specific requirements of the local agency. Our Team is knowledgeable of the criteria required of FHWA, FEMA, and Army Corps of Engineers, and will ensure that projects are completed in compliance with the regulations of all applicable state and federal agencies. Plans, specifications, and contract documents will be prepared in accordance with the MoDOT Local Public Agency (LPA) Manual and Engineering Policy Guide.

Geotechnical Investigations: Specialized subsurface geotechnical investigations will be sub-contracted to a qualified geotechnical consultant to be utilized in the design phase of the project. **Land Acquisition:** We routinely assist our clients with the land acquisition process associated with their public works projects, including bridge replacement projects. Members of our staff attended the MoDOT LPA Land Acquisition Workshop, providing our project managers and engineers with current acquisition process information relating to MoDOT projects. Our participation in ROW acquisition can be minimal or can be more encompassing depending on specific project needs.

Experience: We offer exceptional leadership, expertise and experience and will provide the services required for the engineering, design and construction oversight of bridge/structural projects. We effectively engage the owner, the owner's staff and other key stakeholders in implementing the strategies to produce measureable and successful results. **MECO** has provided professional services for numerous projects funded through the BRO/BRM program, local credit bridges, and state agency projects, working with a variety of clients in multiple districts throughout the State.

This work is identified by District and LPA:

CENTRAL: **Callaway County:** Bridge/Structures inventory for two bridges; **Maries County:** 3 bridges; **Miller County:** 3 bridges; **Osage County:** 1 bridge **KANSAS CITY:** **Pettis County:** 3 structures; **Lafayette County:** Structures Inventory; **Ray County:** 1 bridge

NORTHEAST: **City of Hannibal:** 1 BRM bridge (others: 3 box culverts/3 bridges); **Knox County:** 6 bridges; **Lewis County:** 3 structures; **Lincoln County:** 2 bridges; **Marion County:** 21 bridges; **Pike County:** 8 bridges; **Ralls County:** 10 bridges; **Warren County:** 2 structures

SOUTHWEST: Hickory County: 2 bridges

ST. LOUIS: Franklin County: 2 bridges

MISSOURI DEPARTMENT OF NATURAL RESOURCES: 4 KATY Trail bridges (Matson/Trelor/Augusta East/Augusta West)

Our MoDOT STP, SRTS, and Enhancement funded project list is extensive as well, including: **Boonville:** 1 STP street project/Main Street Sidewalks/Historic Lighting; **Jefferson City:** 11 Sidewalks/Trails; **Bowling Green:** SRTS Sidewalk; **Hannibal:** Phases 1-7 Mark Twain Historical District Restoration (sidewalks and trails (5), beautification/historical lighting/fountain/2 overlooks/trailhead/parking lot), Third St. and Broadway lighting/sidewalks. **Moberly:** 7 sidewalks/trails (1 SRTS), Highway 63 Enhancement; **Marion County R-11 School District:** 1 SRTS sidewalk; **Palmyra:** 1 SRTS sidewalk, downtown sidewalks/lighting, Gardner House Museum Restoration/Lighting; **New Franklin:** MKT Trailhead Restoration/Antique lighting; **New London:** Downtown sidewalks/historical lighting (2 Phases); **Louisiana:** Scenic Highway 79 historical lighting; **Perry:** SRTS sidewalk; **Clarence:** SRTS sidewalk; **Troy:** Downtown revitalization (sidewalks/historical lighting/beautification); **Salisbury:** Downtown revitalization (sidewalks/historical lighting); **Warrenton:** Hwy 47 trail/downtown historical lighting; **Wright City:** SRTS sidewalks/ downtown sidewalks/historical lighting; **Wellsville:** Depot restoration/historical lighting.

Examples of structures include:



Keller Branch Bridge" No. 28900111 on County Road 153 over Keller Branch; Marion County Commission, Palmyra, MO (Credit Bridge): Single-span (55') pre-stressed concrete deck beam bridge with low-slump concrete wearing surface, integral end bents supported by H-piles, excavation, filling, grading, rock slope abutment, embankment protection, aggregate surface roadway, cast-in-place bridge rail. Estimate: \$230,409.20 Cost \$199,682.99.

Bridge No. 147002.1 BRO-NBIL B063 (7) on County Road 506, Maries County Commission, Vienna, MO: Three-span (44' Span); Bridge substructure design (end bents on H-Piles); Bridge superstructure (pre-stressed I-girder beams, concrete slab, cast-in-place bridge rail); Existing bridge removal, embankment protection, aggregate road surface, Subsurface Geotechnical Investigations. Estimate: \$441,537.45 Cost: \$340,501.20. **F-270 Sapsucker Road Bridge, Franklin County Commission, Union, MO:** Three-span (44'-53'-44'); Bridge substructure design (end bents on H-Piles and intermediate column bents on drilled shafts); Bridge superstructure (pre-stressed I-girder beams, concrete slab, cast-in-place concrete bridge rail); excavation/filling/grading, embankment protection, asphalt surface roadway. Estimate: \$582,468.90 Cost: \$477,494.10. Please see our complete listing of projects provided as a part of our LPA information to be published on the MoDOT website.

Capacity: Project design strategies and cost estimates are developed based on sound engineering practices and years of practical experience. You can rely on our recommendations to be realistic and solutions to be appropriate to meet your bridge replacement program budgetary needs and schedule. **Service:** You can rely on MECO and our Project Team to provide the attention to detail and a level of commitment to service, experience, knowledge, and expertise that you require and expect of your Engineering Consultant. We never forget that clients have many choices and options when selecting their consultant. Our Project Managers and Engineers understand, and demand, that our technical capabilities be matched with impeccable service and responsiveness. We are proud of our success in satisfying our clients' needs by providing quality design, being attentive to their concerns, addressing issues promptly and always with respect, meeting project schedules and performing within project budgets. Our approach ensures personal attention from the Project Manager and engineer leading the design team, ensuring transparency, effective communication, and personal service that is second to none. **Proximity:** We appreciate this opportunity to present our Letter of Interest for consideration as a member of the Pre-Qualified Consultant List for LPA projects (Structures). To provide cost and time efficiency and prompt response, we will limit our service to those LPA clients within the **Northeast, Central, St. Louis, Kansas City and Southwest Districts.**

Please call Mr. Bensman at 573-221-4048 with any questions you may have of him. Thank you for your consideration of MECO Engineering as a **Pre-Qualified Consultant for LPA On-Call Services for Structural Engineering Services.** We look forward to working with you and the Local Public Agencies.

Sincerely yours,
MECO ENGINEERING COMPANY, INC.



Jan Wyatt
Marketing Coordinator

MECO BROCHURE (4 pages)
For MoDOT Website

PROJECT REFERENCES

Category: Structures



COMPANY PROFILE - STRUCTURES

Structural Engineer James D. Bensman, PE, SE

Professional Engineer (PE) MO E-2001018705 (2001) IL No. 062-058863 (2006)
Structural Engineer (SE) IL No. 081-006043 (2004)
New Mexico State University, Las Cruces, New Mexico Bachelor of Science Civil Engineering; 1996
Experience: 16 Years (MECO Engineering) **Certified LPA Project Manager**

Mr. Bensman will serve as overall **Project Manager and Project Engineer**, providing structural and bridge engineering services and complete oversight of bridge projects. Mr. Bensman is a licensed Structural Engineer (SE) and leads our Structural Department with 16 years of extensive structural engineering, bridge design and related experience, including the design of over 40 structures of various types, including single span/multi-span, box culverts, double tee, and concrete pre-stressed I-girder bridges. He provides cost efficient design solutions that meet specific project site and budget requirements. He works extensively with the federal Bridge Replacement Program (BRO) for LPA projects and is a Certified LPA Project Manager.

As the **Project Engineer**, Mr. Bensman will be responsible for or supervise schematic design, design development and final design phases, hydraulic studies/calculations, calculation of cost estimates, permitting, geotechnical investigations (provided by sub-consultant), roadway realignments/geometry, pavement design, and production of ROW plans, detailing and design plans, bid and contract documents, construction drawings, and maps, and construction engineering. The construction engineering phase including contract administration, construction management and observation, is the implementation of the design ideas and goals into physical form. During the preparation of construction documents, periodic coordination and quality reviews are conducted. Review of documents with permitting authorities prior to plan submission assists in achieving reasonable permitting review times and comments. Construction administration consists of field visits, shop drawing reviews and providing response to field questions and coordination issues.

Point of Contact/Coordination: Mr. Bensman will be the Primary Point of Contact for all bridge/structure projects awarded to the firm. This single point of contact provides you with assurance of communication throughout the project, continuity, and dependability, all essential to the development of a successful client relationship and completion of a successful project. He may be reached at 573-221-4048 or email at jbensman@mecoengineering.com.

Vice President/Principal Engineer/Director of Engineering Scott E. Vogler, PE

Missouri Professional Engineer (PE) MO E-22510
University of Missouri, Columbia, Bachelor of Science Degree, Civil Engineering, 1982
Experience: 31 years (MECO Engineering - 18 years) **Certified LPA Project Manager**

Mr. Vogler will be assigned responsibilities as **Assistant Project Engineer** and will assist Mr. Bensman with those projects within the Central, KC, and Southwest Districts. Mr. Vogler provides three decades of engineering excellence, including the design of over 50 structures of various types throughout his career, including single span/multi-span, double tee, concrete pre-stressed I-girder bridges and box culverts. He is a Certified LPA Project Manager. Should the LPA project location fall within the service area of the Jefferson City or Boonville Offices, Mr. Vogler will assume responsibility for contract bidding, award, and construction management and observation services, with personnel deployed from the appropriate office to provide cost efficiency, prompt response, and accessibility to the client. At this time, Mr. Vogler would be the Point of Contact for the project, available at 573-893-5558 or by email: svogler@mecoengineering.com.

MECO provides assurance of experience, staff capacity, expertise and knowledge to meet LPA project needs in a timely manner to meet project schedules. All record keeping and submittal requirements will be in accordance with the MoDOT Local Public Agency (LPA) Manual and design guidelines.



MECO ENGINEERING...Driven to Excellence. Delivering engineering

EXPERTISE

Municipal / County/Water District Engineering
Project Development
Feasibility Studies / Reports
Land Surveying
Civil Engineering
Site-Planning/ Land Use Planning
Grading Plans
Water and Sewer System Design
Water and Wastewater Treatment Design
Regulatory Compliance / Funding Programs
Roadway Geometry / Alignment
Pavement Design
Sidewalks/Trails/Parks
Structural and Bridge Engineering / Design
Storm Water Engineering
Hydraulics / Hydrologic Studies / Calculations
Floodplain Analysis
FEMA FIRM Map Revisions
Mechanical / Electrical Engineering
Energy Efficiency Design
Project Management
Contract Administration
Construction Management
Construction Engineering / Observation

CAPACITY

35 Employees, including:
9 Professional Civil Engineers (PE)
1 Structural Engineer (SE)
1 Mechanical/Electrical Engineer (MEP)
2 Staff Engineers
2 Professional Land Surveyors (PLS)
1 Certified Floodplain Manager (CFM)

Full Service multi-disciplined firm
Locally Owned and Managed Since 1985
Serving municipalities, counties, state agencies, educational institutions, and private sector clientele
Client Centered

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mecoh@mecoengineering.com

Jefferson City, Missouri
573-893-5558
mecojc@mecoengineering.com

Boonville, Missouri
660-882-3324
mecojc@mecoengineering.com

STRUCTURES PROJECT LIST
MECO ENGINEERING COMPANY, INC.

Structural Engineer: James D. Bensman, PE, SE, Associate/Senior Engineer II
Project Engineer: Scott E. Vogler, PE, Vice President/Principal Engineering/Director of Engineering

Services: Bridge Engineering/Structural Design/Surveying/ROW/Easements/Construction Phase Services; LPA/ADA Compliance

CENTRAL DISTRICT

CALLAWAY COUNTY, MISSOURI

County Road 363 No. 151: Structures Inventory for two bridges

MARIES COUNTY, MISSOURI

Bridge No. 147002.1 on County Road 506 BRO-B063 (7)

Bridge No. 1200001 over Mill Creek BRO-B063 (5)

County Road 409 over Lower Peavine Creek BRO-NBIL-B063 (8)

MILLER COUNTY, MISSOURI

Bridge No. 01100021 over South Moreau Creek BRO-B066 (10)

Madden Ford Road Bridge No. 29900261 over Tavern Creek BRO-B066 (11)

Bridge No. 3300013 over Brush Creek BRO-B066 (12)

OSAGE COUNTY, MISSOURI

Bridge No. 02000281 BRO-076 (8) over Bailey's Creek

KANSAS CITY DISTRICT

PETTIS COUNTY, MISSOURI

Hickory Point Rd Bridge No. 3830009 over Elk Fork of Muddy Creek BRO-080 (17)

Maltsbarger Road over Henry Creek Bridge No. 34900082 (Credit Bridge)

Westmoreland Road over Tebo Creek Bridge No. 35200051(Credit Bridge)

LAFAYETTE COUNTY, MISSOURI

Structures inventory

RAY COUNTY, MISSOURI

Bolling Road Bridge No. 04100051 over Crooked River BRO-089 (13)

NORTHEAST DISTRICT

CITY OF HANNIBAL, MISSOURI

Lindell Avenue Bridge No. 18500311, BRM-2800 (310) over Bear Creek

Norfolk & Western Railway Double Box Culvert Bridge over St. Clair Creek

Pre-cast concrete box girders 2-span bridge over Bear Creek at Industrial Dr.

Pre-cast 2-span double-tee Girder Bridge over Bear Creek at New London Gravel Road

Cast-in-place triple box culvert over St. Clair Creek at Industrial Drive

Cast-in-place 4-span concrete box culvert for Minnow Branch Creek at Market Street

GENERAL MILLS CORPORATION; HANNIBAL, MISSOURI

Single span (85') prestressed concrete deck beam, over Bear Creek

KNOX COUNTY, MISSOURI

County Road 198 3-Span Bridge over Bridge Creek

County Road 372 3-Span Bridge over Little Fabius River

County Road 273 3-Span Bridge over South Fabius River

County Road 086 4-Span Bridge over North Fabius River

County Road 137 Bridge over South Fork of the South Fabius River

County Road 161 3-Span Bridge over Little Bridge Creek

LEWIS COUNTY, MISSOURI

County Road 267 3-Span Bridge over North Fabius

County Road 105 3-Span Bridge over Sugar Creek

County Road 217 3-Span Bridge over South Fabius River

LINCOLN COUNTY, MISSOURI

County Road 645 Single Span Bridge over Sandy Creek (Credit Bridge)

County Road 453 4-Span Bridge over West Fork Cuivre River

MARION COUNTY, MISSOURI

County Road 189 Bridge over North River Bridge No. 11800161 BRO-B064 (20)

Shade Bridge No. #16700011 on County Rd 230 (Credit Bridge)
Bridge #17400041 at County Road 337 over North River
East Hall Bridge No. 28900111 over Keller Branch
Bridge No. 1860051 over Bay De Charles
Hall Bridge No. 28900071 over South Fabius River
Horseshoe Bend Bridge No. 11500081 over North River
Hester Bridge No. 07000201 over South Fabius River
New Market Bridge No. 19500181 over South Fork of North River
Clear Creek Bridge No. 25200101 over Clear Creek
Dearing Creek Bridge No. 07200021 Over South Fabius River
Gottman Bridge No. 18700261 over Branch Creek
North River Bridge No. 1600041 over North River
County Road 144 3-Span Bridge over Big Branch
County Road 226 2-Span Bridge over Sees Creek
County Road 267 Bridge over North Fabius River
County Road 183 3-Span Bridge over South River
County Road 279 Bridge over South River
County Road 226 2-Span Bridge over Sees Creek
County Road 210 3-Span Bridge over Tributary of South Fork River
Kaden Bridge at County Road 246 3-Span Bridge over South River

PIKE COUNTY, MISSOURI

Bridge No. 11700121 over Little Calumet Creek
County Road 236 1-Span Bridge
County Road 252 3-Span Bridge over Indian Creek
County Road 165 1-Span Bridge (Credit Bridge)
County Road 076 1-Span Bridge (Credit Bridge)
County Road 249 3-Span Bridge over Indian Creek
County Road 246 3-Span Bridge over North Fork Cuivre River
County Road 265 1-Span Bridge (Credit Bridge)

RALLS COUNTY, MISSOURI

Wisconsin Lane Bridge No. 26200141 over Gallaher Creek BRO-B087 (19)
Camp Creek Lane Bridge No. 07600061 over Camp Creek BRO-B087 (18)
Bailey Bridge No. 08900101 over Salt River
County Road 115 Triple Box Culvert over Brush Creek
County Road 255 3-Span Bridge over Gallaher Creek
County Road 084 Double Box Culvert over Mills Creek
County Road 051 3-Span Bridge over Bear Creek
County Road 272 3-Span Bridge over East Lick Creek
County Road 181 3-Span Bridge over Lick Creek (Historical Bridge on the National Register)
County Road 238 Triple Box Culvert Bridge over tributary of Spencer Creek

WARREN COUNTY, MISSOURI

City of Warrenton Binkley Industrial Complex
Flood Protection including 2-Span Double Box Culvert

SOUTHWEST DISTRICT

HICKORY COUNTY, MISSOURI

County Road 057 Bridge
County Road 098 Bridge

ST. LOUIS DISTRICT

FRANKLIN COUNTY, MISSOURI

Bridge No. F-270 on Sapsucker Road over Boone Creek
Bridge No. F-23 on Boeuf Lutheran Road over Boeuf Creek

OTHER BRIDGE PROJECTS: STATE OF MISSOURI

Department of Natural Resources Division of Parks and Recreation

Replacement of bridges on the "KATY" Trail, including design, plans and specifications for new concrete end abutments for Steadfast pre-fabricated and pre-assembled steel and wood deck, single span bridges

Matson "KATY" Trail Bridge

Trelor "KATY" Trail Bridge

Augusta East "KATY" Trail Bridge

Augusta West "KATY" Trail Bridge

