



STATEMENT OF QUALIFICATIONS

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FIRM OVERVIEW

Master Consulting Engineers, Inc. (MCE) has been providing engineering services **since 1999**, with offices in St. Louis, Tampa, Orlando, Fort Lauderdale and Fort Walton Beach. MCE is a licensed firm with **over 30 employees**, including **8 licensed professional engineers** who bring **over 200 years of combined experience**. MCE is also licensed to perform engineering services in **22 states** across the United States of America.

CORE VALUES

EFFICIENCY

Our approach focuses on smart, practical solutions that keep traffic and commerce moving. By optimizing traffic operations, improving signal coordination, and applying proven design strategies, we reduce congestion and enhance safety. Every project is delivered on time, within budget, and in full compliance with MoDOT standards.

SAFETY

All of the projects that we take on are completed with the prioritization of public safety. By utilizing cutting-edge technology and our strategic analysis, we effectively minimize potential risks and efficiently improve roadway conditions.

INNOVATION

By leveraging advanced modeling and simulation tools, we deliver innovative engineering solutions tailored to the unique challenges of each project, ensuring forward-thinking, sustainable, and cutting-edge outcomes.

OUR VISION

"The vision of MCE is to encourage the advancement of engineering by using innovative design methods in an environment of ingenuity, leadership and excitement; which result in designing dynamic high performance structures that enhance the human experience."



MASTER CONSULTING ENGINEERS CIVIL ENGINEERING CAPABILITIES



Master Consulting Engineers, Inc. (MCE) brings continued excellence to each project. Our experience spans both urban and suburban environments, addressing diverse planning and engineering requirements. Overall, we prioritize timely solutions with our practical approaches for every project at hand.



TRAFFIC ENGINEERING AND PLANNING

- Roundabout Analysis
- Traffic Signal and Pedestrian Signal Design
- Signal Timing and Phasing
- Intersection Capacity Analysis
- Data Collection
- Traffic Studies
- Traffic Impact Analysis
- Traffic Safety Studies and Assessments
- Crash Analysis



HIGHWAY AND ROADWAY DESIGN

- Geometric Design
- Location Design Studies
- Mill and Overlay and Resurfacing Design
- Utility Coordination and Relocation Design
- Sidewalk, Bicycle, and ADA Improvements
- Overland Sheet Flow and Stormwater System Design



CIVIL SITE AND UTILITY DESIGN

- Site Feasibility and Layout for New Structures
- Rehabilitations and additions Site Grading Stormwater Quality
- Permeable Pavement
- Earthwork Analysis Parking, Sidewalks, and Trails
- Erosion Control and Drainage Designs
- Utility Coordination

PROJECT APPROACH



At MCE, we know the importance of providing quality work that is expected but instead we focus on exceeding that, starting with the delivery of a comprehensive management system and procedure.

Our approach is categorized into the following general phases:



Kick- Off Meeting

MCE will begin with a collaborative meeting involving all of the representatives and team members to understand the context and influences on the project and to communicate these for review and discussion.

Prior to commencement of work our team will perform a brief site analysis to address any possible program/permitting issues. This task could entail site visits, review of existing utility and property data and/ or aerial photo analysis.



Setting Goals and Timelines

Management-level planning maps out an overall management plan from which resources, acquisitions and sub-contracts can be identified, costed and put in place.

Quality requirements and approaches will be defined and agreed during the project start-up. Contingency plans and avoiding action will be defined as appropriate. MCE will have an effective team nurtured through appropriate initiation, training, and communications.



Budget for Surprises

MCE creates a detailed and accurate forecast of the total anticipated costs. The cost control begins with defining the clients program requirements, analyzing the project budget, and aligning both.

MCE takes every aspect of a project into consideration and consults with others who will be involved, and calculates the figures down to the last penny to create a timely budget.



Design Reviews "QA/QC"

Review of our Design Documentation is conducted at each 50, 75, 95, and 100% status point by the Principal in Charge. This involves comparing the existing documentation with the requirements and expectations articulated in our Project Performance Checklist.

All of MCE's submittals will undergo a rigorous QC review by an independent principal before leaving the building. Quality Control is a daily process, where engineering analyses, designs and plans are checked as the work progresses.