



**Missouri's  
Local  
Program**  
*for community  
development*

## COVER SHEET

(This must accompany your firm's letter of interest and does not count in the page limit)

Firm's Full Legal Name: SE3, LLC

Firm Contact Name: James Cherney, PE

Contact Email Address: jcherney@se3.us

Firm's Mailing Address: 8401 East 350 Highway  
Kansas City, Missouri 64133

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures
- Environmental
- Historic Preservation
- Multimodal Planning / Systems and Facilities Design
- Transportation Planning – **NEW CATEGORY**

**PREQUALIFICATION** - SE3, LLC (SE3) is listed on MoDOT's Approved Consultant Prequalification List.

**WORKFORCE DIVERSITY** - We take diversity seriously and it is at the core of who we are as a firm. SE3 engages with other firms and related industry professionals by attending forums, expos, and webinars to build diverse relationships and learn more about diversity.

**GENERAL EXPERIENCE OF FIRM** - We have comprehensive experience with similar and related services including **PS&E development, structure detailing, hydraulic studies, cost comparisons, environmental clearances, right-of-way changes, and other work related to bridge design.** Since we opened our doors in 2004, our firm's focus has included Structural Engineering for design, construction, and maintenance of bridges. We provide Engineering for major and minor bridge projects involving studies and investigations, preliminary and final design, proof checking, Construction Engineering, contract administration, Program and Data Management, grantsmanship and inspections. Our Structural Engineers have completed a wide range of bridge designs consisting of major bridges of concrete or steel - for mile-long vehicular bridges, and small pedestrian bridges, retaining walls and guardrails, single and multi-cell box culverts, and related utility structures. We have completed design and CADD services for bridge projects that otherwise use MoDOT Standards. Our client base varies and includes government agencies such as MoDOT, multiple State DOTs, State tollways, local municipalities, and counties, the FHWA, and private developers.

SE3 has served as Prime Consultant and on other Engineering teams for projects in various MoDOT Districts for over 12 years where we have served Bridges, Roadways, and Design-Build projects. *In January 2025, our bridge team was chosen by your peers at IDOT to manage a multi-firm team to add Illinois bridge data into the new FHWA SNBI system involving over 26,000 bridges across Illinois.*

**PAST PERFORMANCE** - We are very proud of our past performance on similar bridges and related structures for MoDOT, cities, counties, and other entities. Our ability to manage complexity, soften risks, and foster collaborative teams is a key differentiator in project delivery. We apply proven methodologies to confirm project goals are met efficiently and effectively. Our established track record, supported by results, provides visible evidence of our capability and experience, offering you confidence in our ability to deliver value to your bridge projects. *We meet requirements, deliver on time, help control costs, and can provide references from satisfied clients.*

**Bridge Replacement/Road Improvement along 112th St. and Stark Ave., City of Kansas City, MO** - Bridge replacement over Clear Creek (Fishing River Tributary). Design of bridge to allow pedestrian and bicycle access, widening of lanes, and adding shoulders. This bridge is one of nine vital bridges to be restored or replaced as part of a \$40M Bridge Investment Program. **Complexity:** Non-motorized traffic accommodation. **Solution:** Working with the Client and stakeholders to understand volumes and types of users to provide adequate accommodation.

**Bridge Rehabilitation along Missouri Route E / Route A, Howard County, MoDOT Central District** - Route E: design for replacement of structurally deficient bridge. Route A: rehabilitation of the existing bridge, including 50 feet of approach pavement in a rural area. SE3 was Project Manager for roadway portion of project (PS&E for roadway plan/profile, typical sections, guardrail, erosion control, detour plan, and signing and striping). **Complexity:** Information was extracted from very old, unreadable, plans. Further, due to rural locations, another complexity was determining a usable detour route. **Solution:** SE3 collaborated with the Surveyor to supplement information that was not understandable. SE3 worked with MoDOT on setting up properly signed detour routes.

**Missouri Route 24 Bridge Replacements, Chariton County, MoDOT Northwest District** - SE3's services included bridge design, bridge drainage details, barrier details, and As-Built pile layout sheet for two closely spaced bridges. SE3 also completed Maintenance of Traffic drawings. There were several **Complexity:** Signing and Striping: determining passing zones due to adding a new horizontal curve. Traffic Control: provisions for temporary pavement and temporary traffic signals due to the replacement of two bridges and the desire of the district to allow traffic to traverse through the project area during all phases of construction with no closures. Due to limited number of MoDOT routes and river crossings in the area, two directions of travel needed to be open to traffic at all times to avoid a 15-mile detour. **Solution:** SE3 worked with MoDOT and provided a solution where traffic could travel over the river with minimal delay during high traffic times.

**Two Bridge Replacements along MO Route 96, Carthage County, MoDOT Southwest District** - replacement of two bridges on Route 96 over the Spring River overflow and the Missouri Pacific Railroad. SE3 prepared signing and striping plans and Maintenance of Traffic plans. **Complexity:** Due to difficulties with bridge replacements, and these two bridges were close to one another, the traffic control included detouring traffic around the bridges. **Solution:** Separate detour routes were created, one for trucks and a second for local traffic. The two detours allowed traffic to flow through the Project area more smoothly with fewer vehicles and truck conflicts.

**Preventive Rehabilitation of Nine Bridges along Route 54, Cole County, MoDOT Central District** - preparation of erosion control plans, Maintenance of Traffic plans and details, quantities, and specifications for final PS&E. **Complexities:** Determining proposed bridge cross sections for construction and areas requiring shoulder strengthening. Single direction of traffic in each direction was to be maintained due to inconsistent shoulder depths. **Solution:** Provided staging so two-way traffic could travel on bridges with slight delay of overall travel time.

**Bridge Replacement along 155th Street, City of Raymore** - provided design of the bridge over Lumpkin's Fork Creek. Scope included preparing PS&E for removal and replacement of existing wooden bridge. **Complexity:** City wanted to widen the one-lane bridge and schedule construction coordinated with planned widening of 155th St. **Solution:** A dual-cell cast-in-place box culvert was selected as replacement structure for future widening. SE3 prepared final PS&E for a 2 ft. x 10 ft. x 6 ft. RCB using MoDOT Culvert Design Methods. Work included hydraulic analysis, structural design, guardrail, and approximately 50 feet of pavement reconstruction.

**I-280 Bridge over the Mississippi River, Quad Cities, Illinois DOT** - existing bridge consisted of nine units / 28 spans that were rehabilitated. Repairs: deck replacement, sub-structure repairs, arch span repairs and approach slab replacement. SE3's Role: deck design, bridge deck drainage design (entire structure), evaluation of existing girders, shear stud design, edge beam design and deck pour sequence for four of nine units. A more efficient thicker deck, compared to the standard more heavily reinforced standard deck was implemented. **Complexity:** This was a fast-track project. **Solution:** Contract documents were completed within eight months of NTP. To meet the tight time frame and coordination among the design team, Bluebeam PDF software was used. QC reviews were completed in collaborative PDF software, and comments shared in real time to members of the design team.

#### **Other Structural Projects:**

- SNBI (Statewide Bridge Inventory of 26,000 Bridges), IDOT
- Multiple Bridge Rehabilitation Repairs/Design, Cook County (IL) DOT and Highways- (Wolf Rd. over Salt Creek, Cottage Grove over Deer Creek, Central Ave. over Tinley Creek, and West Lake Ave. over Des Plaines River) - provided a report based on a site visit for each structure that outlined recommended repairs.
- I-55 Bridge Structural Rehabilitation over Kankakee River, IDOT - in addition to Structural Services, completed adjacent Roadway improvements and Maintenance of Traffic drawings.
- Two Bridges - Archer Ave. over LaGrange Rd., IDOT - a single-span PPC I beam superstructure, 114 feet in length, supported on semi-integral abutments on top of MSE retaining walls. Archer Ave. over 79th St. - a single-span PPC I beam superstructure, 88 feet in length, supported by semi-integral abutments on top of MSE retaining walls. SE3's Role: Abutment design/detailing, MSE wall layout/detailing, pile design, and substructure layout.
- 31st St. Culvert Replacement, IDOT District 1 - Design of nonstandard end sections to connect the precast culvert to the cast in place wingwalls. SE3 determined an equivalent fill design height for the precast culvert that would equal the railroad loading.
- IL-251 Culvert Replacement, IDOT District 2 - Design/drawing development of a precast culvert. Grated end sections were used to avoid guardrail. Due to low culvert cover, SE3 coordinated with the roadway team to confirm proposed pavement structure was used over the structure.

**QUALIFICATIONS OF PERSONNEL** - Our proposed staff has the experience to complete work in this category.

**Lead Bridge Designer/Structural Engineer/QA, Ryan Doerr, SE, PE** - 20 Years Experience/Registration: PE-MO / Education: MS Civil Engineering / Certifications: FHWA, Safety Inspection of In-Service Bridges for Professional Engineers - Ryan is SE3's Chief Structural Engineer overseeing structural work nationwide. He leads planning, design, construction and maintenance solutions for private, local, state, and federally funded projects from feasibility studies to structure rehabilitation to complete structure replacement.

**Ryan is leading our team of Structural Engineers, to manage IDOT's bridge inventory's data conversion to the new FHWA SNBI system involving over 26,000 bridges across Illinois.**

**Structural/Bridge Engineer, Jason Sandoval, PE** - 24 Years Experience/Registration: PE-IL/Education: M.Sc. Civil Engineering / Certifications: FEMA, Program Delivery - Jason provides a wide range services relating to Structural Engineering. He specifically provides bridge and highway structures planning and design for states, counties, and municipalities. He has served as Project Engineer for several local, state, and federally funded bridge and highway projects from deck rehabilitation to complete structure replacement. Jason has provided services to Cook County DOT&H, IDOT, IL State Toll Highway Authority.

**Structural/Bridge Engineer, Jeremy Stapleton, PE** - 7 Years Experience/Registration: PE-IL/Education: BS Civil Engineering - Jeremy has comprehensive experience providing bridge and related structures planning and design for states, counties, and municipalities. He has served as Project Engineer for federally funded bridge and highway projects from deck rehabilitation to complete structure replacement. His skills have helped Cook County DOT&H, IDOT, and IL State Toll Highway. He performs field inspections, completes condition reports for structural conditions of bridges, and makes recommendations (deck repairs, patching, joint replacement, pavement repairs, etc.)

**Hydraulics Engineer, Steve Schuessler, PE** - 23 Years Experience/Registration: PE-MO/Education: B.Sc. Civil Engineering - Steve is a Site/Drainage Engineer who provides drainage/hydraulics design, water main improvements, erosion control, site design/development, roadway planning/design, traffic engineering, and municipal engineering.

**FAMILIARITY/CAPABILITY** - SE3's staff have extensive familiarity with federal projects and have delivered federal projects compliant with federal law. Our staff have used, and helped secure, federal funding for study, design, construction and maintenance of bridges and related structures. Our most recent example of knowledge of federal systems is that, as of *January 2025, we were chosen by your peers at IDOT to manage a multi-firm team to add Illinois bridge data into the new FHWA SNBI system involving over 26,000 bridges.*

**ACCESSIBILITY** - We have a staff of over 75 professionals in offices throughout the Midwest, including Kansas City and St. Louis, and have no profit centers, as we are "all for one and one for all". Our staff works with Local Agencies extensively in Missouri, Illinois, and Texas and have worked with over a hundred communities in over 25 states providing private development Engineering services in numerous municipalities.

We value **Open/Ongoing Communication** to reduce conflicts, prevent misunderstandings, and enhance overall project efficiency. We know how important **Responsiveness** is to MoDOT's staff and our team understands communication is KEY to a successful Project and we reply to any communication within 24 hrs. We believe face-to-face is best, however we will also communicate by phone, e-mail, text, TEAMS, web tools, and Bluebeam for collaboration during services recognizing your staff's preferences.

We use **Bluebeam**, and have presented seminars to IDOT across Illinois, to demonstrate its effectiveness in allowing a team from everywhere to work well together. We use overarching **QA/QC Strategies** to confirm Deliverable completeness, for consistency across packages, and alignment with MoDOT Standards and schedules. Our QA/QC Program will be implemented for each phase of a Project to provide an independent review of each Deliverable. Quality Control, and ongoing Reviews are completed in collaborative software, comments shared in real time to members of the Project team – no matter their location or role in the Project.

We believe in early **Utility Coordination** no matter where we are, where the Utility Companies are, or where their facilities are. We know contacting them early and often reduces cost and schedule risk.

**Cost Estimates** (Construction, Engineering, Right-of-Way, Contingencies) are produced with each Deliverable as we know how important budget is to our clients.

We realize **Public Involvement**, including agency coordination, must be courteous, continuous, and concise. Our experience, including work with MoDOT, proves that ongoing (during planning, design and/or construction) outreach reduces frustration during infrastructure investments..

Our Point of Contact for this Letter of Interest is James "Jim" Cherney, PE, Kansas City Regional Manager. As you review this Letter of Interest and have questions, you can contact Jim at (816) 839-5736 or by email at [jcherney@se3.us](mailto:jcherney@se3.us). **SE3 is ready to provide MoDOT, via the LPA On-Call Program, with STRUCTURES.**

## We Bring Infrastructure Projects to Life!

### SE3, LLC (Headquarters)

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 Certified: DBE / MBE

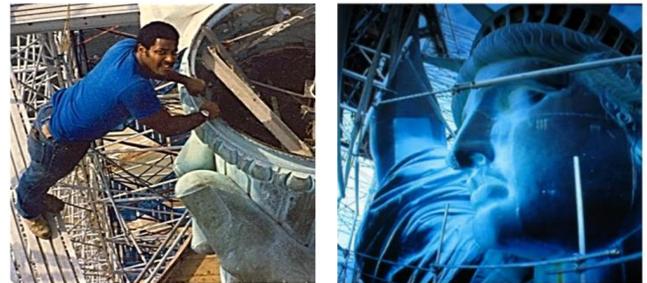
### Personnel Expertise

The management team of SE3 collectively has more than 100 years of planning, construction management, and design experience, assisting clients with infrastructure projects across the United States.

- 75+ Qualified Staff
- 25 Registered PEs, PTOEs

### SE3, LLC Story – Founded in 2004

SE3, LLC specializes in Civil Engineering with a focus on Transportation, Municipal Engineering, and Site Development. SE3 is rapidly emerging as a leader in the Civil Engineering consulting industry. Our management team has contributed to both local and high-profile projects, including the restoration of the Statue of Liberty. We are known for delivering reliable, cost-effective solutions.



Raymore Kumapley, PE  
 President & CEO

**SE3 Leadership:** SE3 was founded and incorporated on June 28, 2004, in the State of Missouri. Vernal Stewart, founder and former SE3 President and CEO, has transitioned to his new role as Emeritus CEO after 21 years of dedicated service. In 2025, Raymond Kumapley, PE began as President & CEO of SE3. This seamless transition has been marked with mutual respect and shared vision, reinforced by a strong, unified leadership that defines SE3. Raymond brings over two decades of expertise in the professional engineering industry.

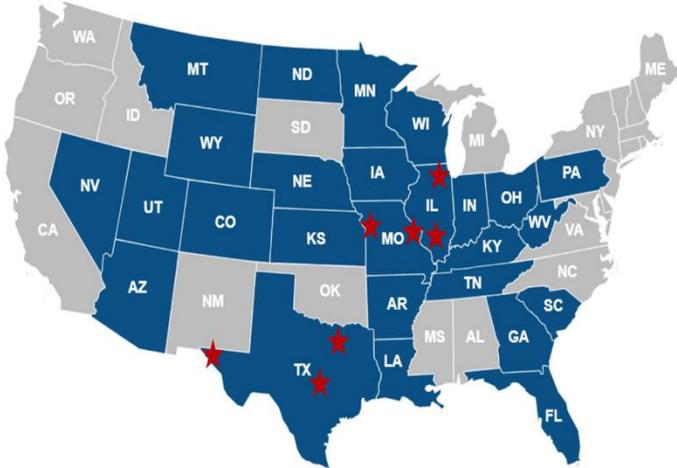
### SE3 is Guided by our PRIME Values

- P**rioritize Client Goals – prioritizing high-quality solutions delivered with responsiveness and accountability.
- R**espect – cultivating a cohesive family culture that supports personal and professional growth.
- I**ntegrity – acting with honesty, fairness, and ethical standards in every project and relationship.
- M**eet Community Needs – bringing infrastructure projects to life by strengthening and supporting the communities we serve.
- E**xcellence – driving continuous individual improvement while championing excellence and innovation.

### Markets We Serve

Municipal	Development
County	Commercial
State Agencies	Contractors
Architects	Engineers
Education	Federal
Aviation	Design-Build
Transit	Utilities

**SE3 SERVES CLIENTS NATIONWIDE WITH OFFICES IN MISSOURI, ILLINOIS, AND TEXAS**



### National Firm, Local Approach

With headquarters in Kansas City, SE3 has a tailored approach to each client and project. From local community projects to high-profile national projects, our staff has established a solid reputation by delivering reliable, cost-effective, and efficient solutions for clients. Qualified and certified personnel have performed engineering services in 25 states.

### Building Together

SE3 puts family at the heart of our work, striving for excellence through teamwork, integrity, and faith in one another. The management of SE3 has a firm belief in people and that they, more than anything, build successful projects. With that philosophy, we strive to bring together individuals that support our combined success. Our staff has the necessary tools and support to satisfy our client’s specific project requirements and ultimately provide a successful project for the parties involved.

We Provide Engineering Services for Studies, Design, and Construction	
Water	Transportation
Sanitary Infrastructure	Structural Design / Inspection
Storm Drainage Systems	Construction Observation
Right-of-Way	Site Development
Lighting	Grantsmanship
Program and Project Management	

What We Do	
Structures	Drainage / Sewer
Traffic Studies	Traffic Signals
Design	Roads / Streets
Construction Inspection	Reconstruction / Rehabilitation

**Connect with SE3 Today!**






[www.SE3.us](http://www.SE3.us)

**SE3 SERVES CLIENTS NATIONWIDE WITH OFFICES IN MISSOURI, ILLINOIS, AND TEXAS**