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

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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 - Our Traffic Engineering team has comprehensive experience in **performing Engineering services for design of improvements intended to relieve traffic problems, including signalization, signing, lighting and pavement markings. We have TEAP experience also and have conducted studies of corridor and intersection(s) safety and/or operational analysis, speed limit review, sign inventory, pedestrian/bike route analysis, parking issues, and other traffic studies such as traffic calming and Safety Audits.** Since we opened our doors in 2004, our firm's focus has included providing "Complete Streets", and in fact, complete transportation systems. We understand many years ago Engineers worked to move motorized vehicles and now we work comprehensively to move people. SE3 is invested in accessibility and connectivity of people who live in a variety of communities, and we work daily to allow each of them to move when and where they wish using a wide range of transportation facilities - each street, sidewalk, pedestrian/bicycle facility, and transit stop.

SE3 has served as Prime Consultant and as part of design teams for Traffic and Safety projects in various MoDOT Districts for over 12 years. Our firm has assisted MoDOT and other agencies through various facets of Traffic Engineering and design from initial concepts to PS&E and construction management. Our Engineers work on traffic and safety projects daily, involving site access, small rural roads and multi-billion-dollar Design-Build Interstate projects. Our staff include a national Funding Team with grantsmanship experts in each of our key states who work to help clients research, pursue and win funding for their infrastructure projects. This team is led by Mitch Quigley in Missouri who has worked with the TEAP process as has Jim Cherney, both of whom are refenced in our key staff section of this LOI.

Having the proper scope developed upfront is crucial to delivering any study or design project. The development of a sound Scope of Work should include considerations for equipment layout requirements, traffic signal phasing and operations, potential staging needs during construction, preemption requirements, detection methodology, and surveillance and technology requirements. Establishing design criteria, coordination, field activities, and materials provided by MoDOT or others, will generate a clear understanding in developing an accurate scope, schedule, and budget. Studies will likewise require a properly developed Scope of Work to avoid unnecessary analyses or potential rework for adding additional analysis steps that may not have been, clearly identified, at the beginning of the study. *We find that this approach helps involved parties think about various components early in the process and clarify the scope of work so there are limited surprises affecting the solutions.*

Traffic Engineering and Design: SE3 provides a full range of traffic Engineering Services to state, municipal, regional, and transit agencies. Our Engineers have assisted many clients in addressing traffic issues ranging from spot correcting signal timings to full traffic design for larger roadway projects. We can support you with Traffic Engineering for movement calming, traffic signage and markings, roundabouts, message signing, pedestrian facilities, management and accommodation in construction areas, bus priority measures, and bicycle facilities.

Traffic Signal Design: At the start of each assignment, we begin with a signal design checklist that SE3 has developed and perfected by outlining the design criteria for each traffic signal installation. We can also help with related intersection and roadway signing, pavement marking design, and traffic (motorized and non) counts.

Traffic Engineering Studies: Our staff has completed a wide range of Traffic Engineering studies. The key to properly serving MoDOT is to clearly understand your objectives. This may involve conducting a field visit with your Project Manager/Engineering staff or other parties involved. We can provide you with studies for corridors, speed zones, traffic control warrants, pedestrian walkability, parking, traffic and safety, and intersections.

Traffic Impact Studies: We conduct and review these studies that provide guidance on planning access to new or improved developments and recommend improvements needed to allow local transportation to satisfactorily accommodate site and total traffic. They also identify improvements required at local intersections and can help local agencies or those responsible for the facilities pinpoint infrastructure that may require expansion or repurposing of the available pavement.

SE3 has Comprehensive Experience with Traffic, Safety and Operations Engineering:

- Designed over **300 traffic signal installations,** including numerous intersection design studies, bus rapid transit accommodations, and provided design oversight of fiber optic backbone communications
- Prepared over **100 traffic studies**
- Prepared **traffic signal timing plans**
- Performed **traffic modeling**
- Provided field investigations and a data analysis along **75 corridors** within Kansas City, MO
- Performed traffic studies and is participating in several projects in the **"Safe Streets for All Program"**
- Completed a wide variety of Maintenance **of Traffic Plans** and Detour Plans
- Worked with **TEAP** and other Funding programs

PAST PERFORMANCE - We are very proud of our past performance on similar Traffic, Safety and Operations projects. 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 investments. *We meet requirements, deliver on time, help control costs, and can provide references from satisfied clients on past projects*.

Downtown KCMO Traffic Simulation, **Kansas City, MO** - completed various tasks which involved developing a multi-modal traffic simulation model which included private motor vehicles, buses, streetcars, and bicycles. Model was used for operational evaluation of alternatives for intersections, traffic signals, streetcar routes and schedules, bike lanes, and on-street parking for various locations in KCMO. SE3 was Project Manager for data reduction and operational analyses - involved existing parking occupancies of surface lots and on-street parking, reducing turning movement counts, existing operational analyses at signalized intersections, and QA/QC of Deliverables.

Safe Streets for All (SS4A - Vision Zero KC), **Kansas City, MO** - providing investigations and data analysis for 75 high-risk corridors identified with the High Injury Network. SS4A is a USDOT Federally funded grant program providing $5 B in grants from 2022 through 2026. This program supports projects and strategies that prevent death and serious injuries on streets involving all roadway users, including pedestrians; bicyclists; public transportation, motorists, and commercial vehicular use.

IL Route 56 (Butterfield Rd.) at Esplanade Dr., IDOT - responsible for data collection, traffic analysis, and Intersection Design Study, and developing PS&E to convert the local street to one-way operation, facilitating a northbound dual right-turn movement to better serve the surge in evening rush hour office and light-industrial park development traffic. Modifications to the existing traffic signal were required, and a partial temporary signal to maintain existing interconnection and overall traffic signal operation for unaffected legs of the signal.

Traffic Signal Interconnection Design, Various Routes, IDOT District 1 - responsible for developing the extension of existing traffic signal systems and establishing new traffic signal systems for various routes within the district as part of a CMAQ-funded improvement. Five separate corridors within Cook and Will Counties were improved involving 19 signalized intersections within both rural and urban context corridors.

TEAP Grant Research and Project Engineering, New Amazon Development, Sedalia, MO - SE3 staff were asked by City staff to help them develop a Scope of Work, Schedule and Engineering Budget for a Traffic Study of a new warehouse and local distribution traffic to confirm what improvements and changes were needed in the local street network. We are working to start Engineering which will involve the community, the developer and Amazon and potentially MoDOT due to proximity of a state roadway.

Traffic Impact Analysis Review Travis County, TX - contracted by Travis County to review traffic studies (land development projects generating traffic volumes above 1,000 vehicles per day must perform a Traffic Impact Analysis.) Reviews included verifying trip generation/distribution, intersection capacity analysis, signal warrant analysis, sight distance analysis, roadway sizing analysis, turn lane analysis, and potential countermeasures to mitigate a development's adverse effects.

QUALIFICATIONS OF PERSONNEL - Our proposed staff has extensive experience in this category of work.

Senior Traffic Engineer, **Brian Scifers, PE, PTOE** - 28 Years Experience/Education: MS Civil Engineering/ Certifications: PTOE (Transportation Professional Certification Board) / Affiliations: Institute of Transportation Engineers - Brian is an accomplished Traffic Engineer who is experienced in all facets of project development, from pre-design studies through plan implementation and construction; with a specialization in Traffic Engineering.

Brian and his team have designed over 300 traffic signal installations, including numerous Intersection Design Studies, bus rapid transit, and provided design oversight of fiber optic backbone communications. Beyond studies and design, his experience includes Traffic Operations Management, Regional Program Development, and Federal Funding Applications.

Traffic Engineer, **William Lorton, PE** - 10 Years Experience / Education: MS Civil Engineering / Registration: PE IL – Will's focus is on improving transportation systems and safety. Services he performs are traffic impact studies, traffic signal phasing, traffic counts, Intersection design studies, development of timing phasing, accident/crash analysis, safety audits, operations assessment, and geometric reviews.

Illumination/Signals/ITS Engineer, David Kuchinsky - 17 Years Experience / Education: BS Civil Engineering - David has comprehensive someone with roadway lighting and ITS design. He had conducted QA/QC for lighting and ITS design which included revising voltage drop calculations and updating electrical PS&E. He has completed fiber design for roadway improvements and conducted field surveys to determine placement of ITS devices including CCTV, RVSD, DMS, fiber hubs and satellite buildings. He has produced cost estimates and specifications.

LPA Project Manager/Transportation Engineer, Mitch Quigley - 7 Years Experience / Education: BS General Engineering - a Transportation Engineer with experience in many different aspects of transportation engineering. He assists on a variety of tasks on roadway and street projects and related infrastructure studies and designs. He works worked alongside Professional Engineers in multiple states (MO, IL, TX) on projects for roadway and water main designs. Recent experience includes providing field investigations/data analysis along 75 high-risk corridors for the KCMO Safe Streets for All Program. He is well versed in Autodesk AutoCAD, Bentley OpenRoads Design Software. *Mitch is also a Certified Project Manager in MoDOT's LPA Program.*

FAMILIARITY/CAPABILITY - SE3's staff have extensive familiarity with federal projects and have delivered federal projects compliant with federal law. Our staff in offices located throughout the Midwest work together daily on Traffic, Safety and Operations Engineering. We can supply MoDOT with solutions based on our team's extensive experience and expertise in study and design of "complete systems" for transportation mobility securing and using local, state, federal and private funding.

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 systems 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/schedule risk. **Cost Estimates** (Construction, Engineering, ROW, 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. **SE3 is ready to provide MoDOT, via the LPA Program, with TRAFFIC ENGINEERING & TEAP Services.**