

# LETTER OF INTEREST

## Traffic Engineering & TEAP Services

November 14, 2014

Ms. Mary Ann Jacobs  
Missouri Department of Transportation (MoDOT)  
105 West Capitol Avenue, Jefferson City, MO 65102  
via email to: maryann.jacobs@modot.mo.gov

Dear Ms. Jacobs:

To provide a superior transportation experience that serves your customers and promotes a prosperous Missouri, STV Incorporated (STV) wants to partner with Missouri's Local Program (LPA) to solve your transportation challenges. Our outstanding performance record in controlling costs, proactive management, quality, and client satisfaction has enabled our local team, with offices in Missouri, Kansas, and Illinois, to expand our list of transportation clients in the region within the last five years. ***STV's experience and knowledge delivering proven traffic engineering and design services allows our local Midwest team to apply best practices and lessons learned to any LPA project.*** STV welcomes the opportunity to lend our trusted leadership and repeated success managing federal projects to Missouri municipalities, counties, and cities, and to become your consultant of choice.

## Prequalification

STV is on MoDOT's Approved Consultant Prequalification List:

- MoDOT E-Verify Expiration Date 01/17/2015
- Financial Pre-Qual Expiration Date 03/31/2015
- Bridge Forms and QC/QA Plan Expiration Date 10/04/2016

## General Experience of Firm

STV celebrated its 100th anniversary in 2012. From its beginnings as a structural engineering firm, today STV is a full-service engineering and architectural firm delivering world-class transportation and infrastructure projects.

Today, STV consistently ranks among the top firms serving the transportation market. Ranked 12th on *Engineering News-Record's* list of the Top 50 firms in Transportation, STV is 12th among the Top 25 in highways and 15th in bridges, with a ***portfolio of traffic engineering experience for more than 20 state Departments of Transportation (DOTs) nationwide.***

For more than 25 years, STV's robust practice has served counties, municipalities, and DOT agencies throughout the Midwest. For St. Louis Metro, STV recently completed traffic engineering and operational impact assessment for the North County Transit Center. For the Will County Division of Transportation, STV prepared traffic design studies for the reconstruction of a 4-leg intersection at Cedar and Laraway



### STV PROVIDES MISSOURI LPAS WITH THE BENEFITS OF:

- **Outstanding Past Performance:** Recognized as national leaders in traffic engineering and design, STV will work with LPA to provide comprehensive solutions to the transportation challenges of your local Missouri counties and municipalities
- **Trusted Leadership:** Our Project Manager, MoDOT veteran Mark Grossenbacher, leads our same key personnel for LPA as other DOT projects that resulted in high client satisfaction and positive performance reviews
- **Familiarity with Federal Projects:** Our experience managing similar task order projects that comply with federal law will factor as a critical element in the execution of any LPA project

Roads in New Lenox, IL. STV has provided engineering services for improvement projects on an on-call basis for the Chicago Department of Transportation (CDOT) as part of a 10-year service contract. For more than two decades, STV has performed numerous operational studies and traffic engineering services for the Illinois Department of Transportation (IDOT).

## Past Performance

As leaders in traffic engineering and design, ***STV has proven past performance working with cities, counties, MPOs, and state DOTs to resolve their transportation challenges, resulting in positive action in terms of cost control, quality of work, and meeting performance schedules.*** The projects featured on the following page are a representative sampling of STV's range of traffic engineering projects in the Midwest.

### STV TEAM MEMBER, MARK GROSSENBACHER

- Directed multidisciplinary teams in identifying, scoping, and prioritizing roadway, bridge, traffic and safety projects for MoDOT St. Louis District
- Facilitated the development of the annual update of MoDOT St. Louis District's Five Year Highway and Bridge Construction Program totaling \$250M



**METRO NORTH COUNTY TRANSIT CENTER, FERGUSON, MO**

- Evaluated the operational impacts of additional traffic from the North County Transit Center (NCTC) to the nearby street network as part of the design and construction of a bus rapid transit transfer center and maintenance garage
- Analyzed the existing and proposed level of service operation of six existing signalized intersections, one unsignalized intersection, and two proposed driveways
- Conducted a traffic study that complied with the most recently published EOEA Guidelines for EIR/EIS Traffic Impact Assessments
- Conducted detailed site visits and developed simulation modeling of the nearby street network using the traffic analysis tool Synchro



**KEY PROJECT ELEMENTS**

- \* Traffic operational analysis
- \* Analyzed signalized intersections
- \* Intersection safety and operational analysis

**CHICAGO DEPARTMENT OF TRANSPORTATION, WEST GRAND AVENUE ROADWAY IMPROVEMENTS, CHICAGO, IL**

- Traffic analysis and signal design for the \$12 million roadway improvement project on West Grand Avenue from Chicago to Damen Avenue
- STV's design includes signal layouts, specifications, and system datasets, developing traffic signal improvements to improve traffic flow
- Updating signal phasing and sequences, coordinating traffic signals, installing actuated signals for protected-permitted left-turn movements, and the alteration of vehicle queuing lengths
- Replacing incandescent traffic signal equipment with LED signal heads, replacing outdated traffic signal controllers, and upgrading signalized intersections with uninterrupted power supplies



**KEY PROJECT ELEMENTS**

- \* Traffic operational analysis
- \* Signalization design and improvements
- \* Lighting improvements
- \* Pedestrian and bike route analysis

**DUPAGE COUNTY DEPARTMENT OF TRANSPORTATION, GARY AVENUE AT TRAVIS PARKWAY, ROSELLE, IL**

- Design engineering services for a \$472,000 upgrade of highway lighting traffic signal modifications, and barrier warrant analysis at the intersection of Gary Avenue and Travis Parkway
- Installation of LED signal heads, advanced warning flashers, and a dilemma zone detector for the county's highway safety improvement program
- STV oversaw signal warrant analysis and the development of traffic signal timing and phasing
- Designs met AASHTO standards for higher traffic speeds and the reduction of potential collisions



**KEY PROJECT ELEMENTS**

- \* Intersection safety and operational analysis
- \* Signalization design and improvements
- \* Lighting improvements
- \* Speed limit review

**CITY COLLEGES OF CHICAGO, OLIVE-HARVEY COLLEGE TDL CENTER TRAFFIC IMPACT AND PARKING NEEDS STUDY, CHICAGO, IL**

- Supervised a traffic and parking study to determine the potential traffic impacts of a proposed new 200,000-sf transportation, distribution, and logistics (TDL) center at the Olive-Harvey College campus
- Conducted study of existing traffic and future baseline traffic conditions, traffic volumes, the assessment of project impacts, and required mitigation
- Presented parking accumulation study that factored in the additional parking generated, and assessed the potential impact of expansion
- Utilized Synchro software when performing traffic analyses at four key intersections



**KEY PROJECT ELEMENTS**

- \* Traffic operational analysis
- \* Traffic study
- \* Intersection safety and operational analysis

## Qualifications of Personnel

**Mark Grossenbacher, PE**, will lead STV's team as **Project Manager**. Located in our St. Louis office, Mr. Grossenbacher has more than 30 years of experience providing civil engineering and project management for the design and construction of bridge, roadway, and interchange projects in Missouri and Illinois. He has coordinated LPA roadway and bridge projects for municipalities within Missouri as well as large highway corridor and bridge projects for the Missouri Department of Transportation (MoDOT). His expertise encompasses civil site design, traffic engineering, environmental analysis, bridge and roadway design in both urban and rural environments. Prior to his career at STV, Mr. Grossenbacher spent 10 years with MoDOT serving as District Director of Planning, District Bridge Engineer, and as an Area Engineer within the St. Louis Metro District. Mr. Grossenbacher is prequalified as a Project Manager having completed the LPA *Person in Responsible Charge* training.



**Principal-in-Charge Jean-Alix Peralte, PE, PTOE**, is skilled at establishing the technical direction of projects, and coordinates project teams to make sure all aspects of the scope of work are addressed while meeting schedule and budgetary requirements. He has more than 25 years of experience in the management, planning, and implementation of transportation projects and his expertise encompasses intersection improvements, traffic and environmental analyses, and leading public involvement and community outreach efforts for IDOT, CDOT, and various counties and cities throughout the Midwest.



**Traffic Engineer John Clark, PE, LEED® AP BD+C**, is a licensed Professional Engineer in Missouri and has 15 years of diverse management and engineering experience on local transportation and traffic projects. He has been directly involved in the preparation and QA/QC of Phase II traffic signal reconstruction, modification and interconnect plans throughout IDOT District 1 for the past eight years, including the completion of more than 43 work orders for the Bureau of Traffic. Mr. Clark has also prepared traffic signal plans for the DuPage County Division of Transportation and Kane County Division of Transportation, as well as permit plans for IDOT, CDOT, and Cook County Highway Department.



**Familiarity/Capability**  
STV's team members have spent their entire careers working on projects related to traffic engineering, roadway, and bridge design throughout Missouri and Illinois. Having worked

directly for MoDOT and several municipalities, our proposed project manager has strong relationships with MoDOT and local program administrative personnel. We are familiar with the LPA process and have an understanding of the pertinent issues, procedures, local design standards, as well as applicable state and federal requirements.

We understand successful project execution is of utmost importance to the LPA. Our experience managing similar engineering task order projects that comply with federal law will factor as a critical element in executing any LPA project. Once STV is selected for a task order, we schedule a kick-off meeting to discuss scope, schedule, staffing, and budget. We conduct a field visit to develop a detailed scope, fee estimate, and schedule to meet the LPA's project requirements. We offer innovative concepts and approaches, where appropriate, to meet the needs of the project at the least cost to the LPA.

Our team develops and delivers construction documents and specifications in accordance with MoDOT's LPA process and federal requirements. Leveraging our familiarity with MoDOT's review staff, we can help facilitate and expedite the review process. STV staff is also committed to be available to answer design questions during the project.

## Accessibility

STV's primary office for this contract is located in the St. Louis metro area, and will be supported by STV's Mission, KS and Chicago, IL offices, providing Local Public Agencies with access to a local team of professionals backed by industry leaders in roadway, structure, and traffic engineering. STV's office locations are within driving distance of project locations throughout the state of Missouri and will allow us to promptly respond to project needs, site visits, or meetings. STV's responsiveness has been recognized by our clients in letters of commendation, as indicated below, and by the fact that **over 80% of our business is from repeat clients—a testimony to the quality of service we provide our clients.**

### WHAT ARE CLIENTS SAYING ABOUT STV?

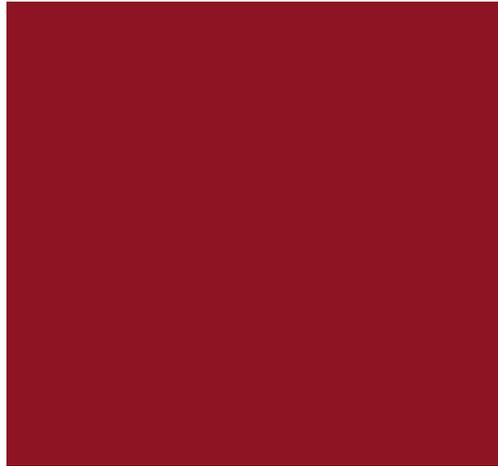
“Your firm’s professionalism and responsiveness sets STV apart from other firms.”  
**PAUL HOLCOMB**  
*Kane County Division of Transportation*

“The consultant [STV] was very responsive, attentive to requests, and proactive in initiating conversations regarding project details and schedule. Communication was clear and constant.”  
**KIMBERLY MURPHY**  
*Illinois Department of Transportation*

“[STV] is on the ball. STV calls us with any issues before we have the need to call them.”  
**ALAN HASLER**  
*DuPage County Division of Transportation*



## ROADWAYS + BRIDGES + TRAFFIC



FIRM QUALIFICATIONS AND SELECTED PROJECTS



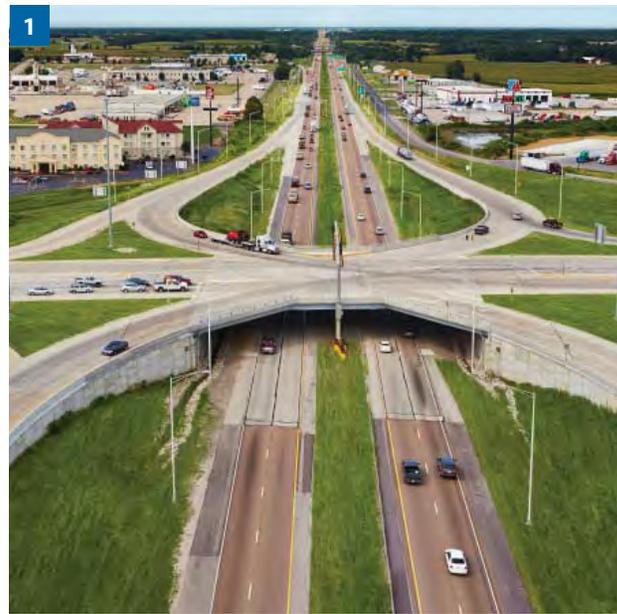
*An Employee-Owned Company Providing Quality Service Since 1912*

# ROADWAYS

As one of the country's top 25 firms in roadway design, STV serves traffic needs nationwide, from rural to urban centers. Our approach considers traffic, geometrics, and aesthetics, as well as community, environmental and historic preservation needs. Our firm's team of experts provides all aspects of roadway design, including:

- ◆ Needs Assessments and Feasibility Studies
- ◆ Route Alignment
- ◆ Environmental Studies
- ◆ Traffic Analyses and Forecasting
- ◆ Roadway Geometrics
- ◆ Drainage and Utilities
- ◆ Hydraulics
- ◆ 3D Modeling
- ◆ Signals and Lighting
- ◆ Traffic Maintenance
- ◆ Traffic and Pedestrian Modeling
- ◆ Rail Coordination
- ◆ Constructability Reviews
- ◆ Life-Cycle Cost Analyses
- ◆ Construction Management

1. IL 162 over I-55/70, Troy, IL
2. I-355 North-South Tollway South Extension, Will County, IL
3. Fabyan Parkway and Settler's Hill Intersection Improvements, Geneva IL
4. Truman College Access Roadway, Chicago, IL
5. IL 2 from North of Elmwood Road to Rockton Bypass, Winnebago County, IL
6. IL 8 Reconstruction, East Peoria, IL
7. US 150 Widening, Urbandale Avenue to Detroit Avenue, Tazewell County, IL
8. Rehabilitation of Orchard Road Over I-88, Aurora, IL
9. Plum Grove Hills Drainage Study, Palatine, IL



“ [STV] has done a good job on the [US 150 Widening] project. Project Manager [Jean-Alix Peralte] has worked hard to keep project costs down while trying to develop a drainage plan with very little existing drainage information, and always presented innovative and fresh approaches to the project. ”

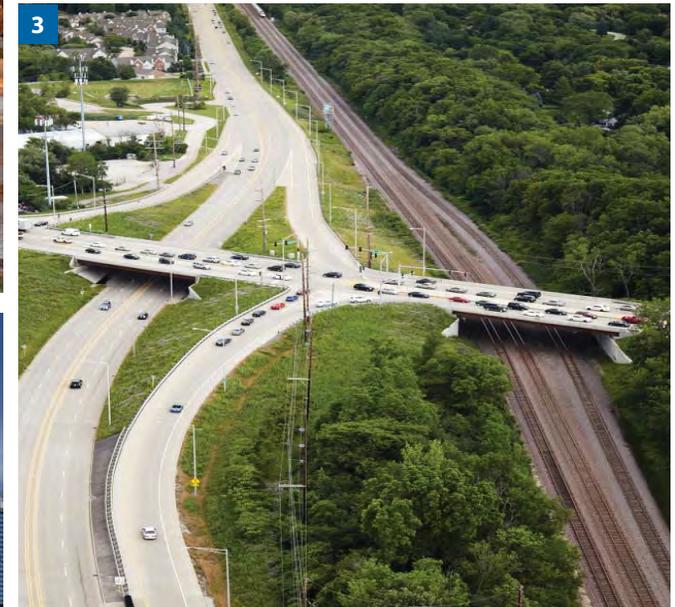
**MICHAEL MCLUCKIE**  
Project Engineer, Illinois Department of Transportation

# BRIDGES

As one of the country's top 25 firms in the bridge industry, STV offers planning, design, construction management and inspection services for bridges, including highway, rail, fixed, movable, long-span and viaduct structures. Our bridge specialists perform repair, widening, and replacement projects nationwide, and provide the following services:

- ◆ Bridge Inspections and Inventories
- ◆ Load Rating and Modeling
- ◆ Fatigue Analysis
- ◆ Seismic Analysis and Retrofitting
- ◆ Hydraulics
- ◆ Corrosion Control
- ◆ Soils and Foundation Analysis
- ◆ Scour Analysis and Scour Mitigation
- ◆ Emergency Response
- ◆ Constructability Assessments
- ◆ Resident Engineering and Inspection Services
- ◆ Construction Management
- ◆ Cost Comparisons

1. Eads Bridge East Riverfront Interlocking, St. Louis, MO
2. IL 21 Reconstruction, Northbrook, IL
3. IL 68 over US 14 & UP Interchange, Chicago, IL
4. IDOT IL 2 Reconstruction over the Mud Creek flood plain, Owen, IL
5. Art Institute of Chicago Nichols Pedestrian Bridge, Chicago, IL
6. IL 162 over I-55/70, Troy, IL
7. Centennial Bridge Rehabilitation, Rock Island and Davenport, IL and IA
8. Van Buren Street Bridge Rehabilitation, Chicago, IL



“ With the recent completion of the East Riverfront Interlocking, I would like to commend [STV] for the diligence and professionalism they displayed during this challenging project. Metro has enjoyed working with STV on a number of successful projects and I hope to see you submit on additional projects in the future. ”

**CHRISTOPHER POEHLER, PE**  
Senior Vice President, St. Louis Metro

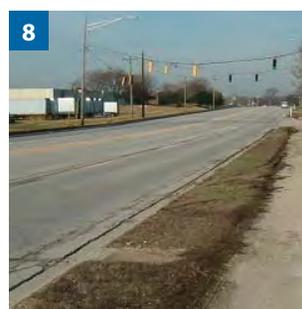
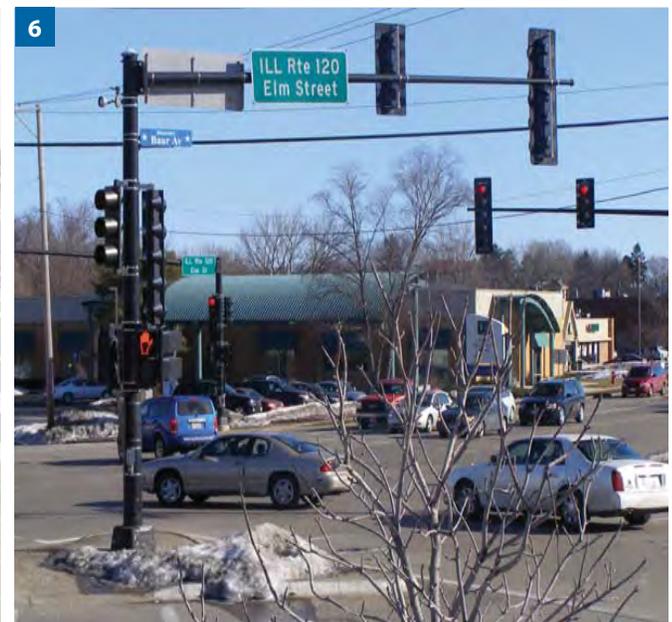


# TRAFFIC

As one of the country's top 25 firms in transportation, STV offers traffic engineering and design solutions to alleviate congestion and improve safety. From densely urban intersections to rural roads, our traffic specialists have played key roles in evaluating all aspects of intersection efficiency, including:

- ◆ Traffic Impact Study
- ◆ Parking Study
- ◆ Safety Study
- ◆ Speed Limit Study
- ◆ Intersection Design Study
- ◆ Traffic Modeling and Simulation
- ◆ Traffic Signal Optimization and Synchronization
- ◆ Traffic Signal Design and Modernization
- ◆ Lighting Design
- ◆ Corridor Operations and Capacity Analysis
- ◆ Signage and Pavement Markings
- ◆ Intersection and Highway Design
- ◆ Pedestrian and Bike Route Analysis
- ◆ Streetscape Design

1. Gary Avenue at Travis Parkway Improvements, Roselle, IL
2. Reconstruction of West Grand Avenue, Chicago, IL
3. North County Transit Center, Ferguson, MO
4. Cedar Road and Laraway Road Intersection Improvements, New Lenox, IL
5. Roadway Pavement Improvements Program, DuPage County, IL
6. IL 31 Reconstruction from IL-176 to IL-120 Phase I Study, McHenry County, IL
7. Olive-Harvey Community College TDL Center Traffic Impact and Parking Needs Study, Chicago, IL
8. Fabyan Parkway and Settler's Hill Intersection Improvements, Geneva, IL



“ STV has shown dedication to deliver a fully coordinated project that meets Metro's present and future needs keeping in mind the needs of Metro's customers. STV understood Metro's project requirements and worked to provide innovative and cost effective solutions to the challenges as they occurred. I would highly recommend the services of STV for future projects. ”

**JEREMY DOTSON**  
Project Manager, St. Louis Metro