HORNER & SHIFRIN, INC.
ENGINEERS

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Mr. Kenny Voss, PE
Local Program Administrator
Missouri's Local Program (LPA)
Mary.Ann.Jacobs@modot.mo.gov

November 15, 2013

Subject: Letter of Interest for Roadway On-Call Services

Dear Mr. Voss and Members of the Selection Committee:

Horner & Shifrin appreciates this opportunity to present our qualifications to Missouri's LPA for Roadway On-Call Services. To demonstrate our capabilities and expertise in providing engineering services for bridge replacements, we have prepared this letter for your review.

Our team is uniquely qualified to assure this project achieves or exceeds the project goals of success by offering the following.

- Extensive roadway design: horizontal and vertical alignment, drainage, ADA-compliant sidewalk, traffic signals, pedestrian signals, lighting, utility coordination.
- Highly responsive Project Managers with MoDOT and LPA Experience
- Recent experience with MoDOT District staff in multiple locations
- Excellent record of meeting challenging schedules and budgets on a variety of roadway projects
- Long history of cost saving designs
- Emphasis on responsiveness to field personnel during construction
- Workforce Diversity Plan

PREQUALIFICATION

Horner & Shifrin maintains our prequalification with MoDOT and is compliant with all of the requirements.

COMPANY REFERENCE FORMS

Please see the separate reference forms following this Letter of Interest.

GENERAL EXPERIENCE OF FIRM

Founded in 1933 in St. Louis, Horner & Shifrin is a professional multidisciplinary engineering firm. We offer engineering services in all phases of a project, including feasibility, planning, development, design and construction administration. We are structured to ensure that our principals and senior personnel are directly involved with all projects. We are a 100-percent employee-owned corporation, managed by our officers and directors. As employee-owners, we share a commitment to apply our expertise to the highest standards.

Progress Parkway | City of Maryland Heights, MO. Design improvements to Progress Parkway, a curving central artery for Westport, a busy corporate, commercial and retail district. Elements include widening of roadway from two to three lanes, drainage improvements, curbs and gutters replacement, shared-use bicycle lanes and ADA/PROWAG-compliant sidewalk additions on both sides. Other components include water quality and detention, erosion control conforming to MDNR requirements, and coordination with utilities, businesses, the City and St. Louis County. *STP-funded project.*

Manchester Road Phase 3 | City of Maplewood, MO. Horner & Shifrin is designing roadway improvements for Manchester Road (Highway 100) to improve pedestrian safety & access and reduce travel delays at the Laclede Station Road intersection. The existing corridor consists of commercial properties with limited parking and frontage available for pedestrian facilities. H&S's design includes the removal and replacement of an existing concrete drainage swale with curb & gutter to facilitate construction of a raised concrete sidewalk adjacent to the new curb & gutter section. Impacts to commercial parking were thoroughly reviewed and acquisition of right-of-way was minimized. A left-turn lane is being added at the Laclede Station Road intersection and traffic signal facilities will be relocated and replaced. Street & pedestrian lighting improvements are being designed. Coordination with Metro is required due to the proximity of a Metro transit station within the project limits. H&S has teamed with SWT Design to provide landscaping enhancements throughout the project corridor. The project requires adherence to LPA requirements and is federally-funded through the STP program. H&S will provide construction engineering services when the project is constructed.

Fee Fee Road Phase II Improvements | City of Bridgeton, MO. Currently designing Phase II improvements to Fee Fee Road from Old St. Charles Road to Interstate 70 overpass, approximately 4,500 feet. Improvements consist of widening and reconstruction of roadway, continuous ADA/PROWAG-compliant sidewalks along both sides of the roadway, pedestrian signal upgrades, bicycle guidance features and possibly street lighting. Project also includes drainage improvements such as new enclosed storm sewers and water quality Best Management Practices (BMPs).

Safe Routes to School on Old Highway 60 | City of Birch Tree, MO. Horner & Shifrin is currently designing 1,700 feet of sidewalks along Old Highway 60 near the Birch Tree Elementary School. Improvements include construction of a five foot wide sidewalk, concrete driveway crossings, and drainage and grading improvements as required. All work is being done to MoDOT and ADA standards, with existing rights-of-way. In addition to design services, Horner & Shifrin is providing all construction phase services including construction observation, keeping the construction logs, and coordinating concrete testing.

Litzsinger Road Improvements | City of Ladue, MO. Currently providing design of improvements to Litzsinger Road from Lindbergh Boulevard to McKnight Road, approximately 2.5 miles. Project includes milling and overlay, addition of sidewalks, drainage improvements and pavement repairs. We are also providing construction inspections services. *STP-funded project.*

Litzsinger Road Improvements | City of Brentwood, MO. Horner & Shifrin designed improvements along Litzsinger Road between Brentwood and McKnight.. Project involved mill and overlay of existing drive lanes, new ADA compliant sidewalks and ramps, curb and gutter, storm sewer improvements and street lighting. Prelim eng design services including survey, plan sheet development, hydraulic analysis and drainage design, roadway design, any necessary permitting, geotechnical investigation if necessary, ROW design including easement exhibits and legal descriptions, final design plans, specs and cost estimate, and construction inspection. *STP-funded project.*

Outstanding Performance Evaluation
Dunn Road MSE Wall #1 – Structural Retaining Wall Repair, Rec'd. October 16, 2013.
4.9 out of 5.0 rating. Evaluator: Kurt Gribble.
Notable Quote: "The Consultant provided a very good solution in a very timely manner. Communication and coordination was very good. Final plans were clear and accurate."

Warson Road Phase III Improvements | City of Ladue, MO. Design of Phase III improvements to Warson Road from Clayton Road to Old Warson Road for the City of Ladue. Consisted of pavement milling and overlay to improve overall pavement conditions and remove significant rutting in some areas. New concrete curbs and asphalt swales were added to a 1.8 mile stretch of the two-lane roadway. Project also included drainage improvements such as new storm sewers and water quality Best Management Practices (BMPs). Prepared construction bid documents, administered contracts and performed construction documentation for the City during construction. *STP-funded project.*

Vogel Road Improvements, Phases I & II (LPA) | Jefferson County, MO. Jefferson County selected H&S to complete preliminary, right of way, and final design plans for improvements to Vogel Road. The project consists of two phases which are planned to be designed and constructed in combination. Phase 1 limits begin at Bluff Park Drive and end at Vogel Circle and Phase 2 continues from Vogel Circle to Old Lemay Ferry Road. This work includes roadway reconstruction, evaluation of several alignment alternatives to improve driver safety, drainage improvements, replacement of a large culvert with a bridge, and the extension of a box culvert to accommodate a shift in the horizontal alignment. Preliminary design is complete and the right of way plans are in their final stages.

Mexico/ Salt Lick Road Intersection | City of St. Peters, MO. Currently providing design improvements to the intersection of Mexico Road and Salt Lick Road to reduce traffic congestion. To be completed in 2012, new right turn lanes will be constructed from westbound Mexico Road on to northbound Salt Lick Road and from southbound Salt Lick Road on to westbound Mexico Road. Will also remove and replace existing traffic signals and provide ADA accessibility improvements. *CMAQ-funded project.*

Prairie Dell Road Improvements, Phase 1 | City of Union, MO. Design of improvements to Prairie Dell Road from Audrey Lane to south of Route 50 near the entrance to East Central College. The existing 2-lane road will be reconstructed and widened to 3 lanes to improve safety for left-turn movements into commercial properties and provide a landscaped median. H&S is developing alternates to improve access to the College and to address existing traffic issues. Coordination with the College and City to determine the preferred alternate is required. A trail will be constructed along the west side of the roadway adjacent to East Central College. The trail will meet ADA accessibility requirements as defined in the Public Right-of-Way Accessibility Guidelines (PROWAG). Street lighting will be designed along Prairie Dell Road. H&S will also be responsible for administration, inspection, and oversight of all construction activities. This process will follow the requirements of the LPA Manual since the project is federally funded.

Outstanding Performance Evaluation
Route 54 over Mississippi River – Truss Repair, Rec'd. May 14, 2012. 4.6 out of 5.0 rating. Evaluator: Mike Harms. Notable Quote: "The PS&E was completed in a timely manner. MoDOT only had minor comments. The consultant did a great job setting up the plans for temporary supports that were needed to replace the damaged members. They analyzed and provided the allowable load necessary for the temporary members along with the allowable construction loads on the truss during construction. The consultant was very receptive and responsive to questions from bidders before the bid and they have been very responsive to construction questions from the awarded Contractor. No construction changes were necessary for the project. The Consultant was very active in helping evaluate the Contractors temporary support proposals."

I-70 Access Improvements Project, Cave Springs Road to Mid Rivers Mall Drive | St. Charles County & City St. Peters, MO. Horner & Shifrin and a team of subconsultants were selected by St. Charles County & the City of St. Peters to design access improvements to Interstate 70 from Cave Springs Road to Mid Rivers Mall Drive. The Design Team is responsible for conceptual design, extensive public involvement, a Categorical Exclusion document, Access Justification Report, and final construction plans. The project is being completed on an aggressive schedule to meet funding milestones. The project includes converting a portion or all of the two-way outer roads to one-way outer roads and the addition of slip ramps connected to Interstate 70 to provide better access to the outer roads. The project corridor is approximately 3.5 miles long with an estimated construction cost of $15 million. *CMAQ funded project.*

PAST PERFORMANCE

Horner & Shifrin takes great pride in our commitment to our clients and always strives to achieve the highest level of quality, service and responsiveness. The table below highlights our performance record regarding budget control and ability to meet schedules as well as the Outstanding Performance Ratings noted in the call out boxes on this and the following page .Reference Letters from a few key clients follow this LOI.

QUALIFICATIONS OF PERSONNEL

Horner & Shifrin offers engineering services in all phases of a project, including feasibility, planning, development, design and construction administration. All staff assigned to the project have extensive experience working on FWHA, MoDOT and LPA funded projects.

PROJECT/CLIENT	ESTIMATED VS. ACTUAL DESIGN SCHEDULE COMPLETION		ESTIMATED VS. ACTUAL CONSTRUCTION COSTS	
WARSON ROAD, PHASE III CITY OF LADUE	ESTIMATED ACTUAL	10/2011 10/2011	ESTIMATED ACTUAL	$868,979 $650,049
PROGRESS PARKWAY CITY OF MARYLAND HEIGHTS, MO	ESTIMATED ACTUAL	07/2014 NA	ESTIMATED ACTUAL	$3,300,000 NA
MEXICO ROAD/SALT LICK ROAD INTERSECTION CITY OF ST. PETERS, MO	ESTIMATED ACTUAL	07/2012 07/2012	ESTIMATED ACTUAL	$400,000 On-Going
VOGEL ROAD IMPROVEMENTS, PHASES I&II JEFFERSON COUNTY, MO	ESTIMATED ACTUAL	12/2014 NA	ESTIMATED ACTUAL	$1,943,500 NA
GOODFELLOW AND SKINKER BOULEVARDS CITY OF ST. LOUIS, MO, BOARD OF PUBLIC SERVICE	ESTIMATED ACTUAL	02/2010 01/2010	ESTIMATED ACTUAL	$2,489,290 $2,418,220
I-270 - DUNN ROAD MSE WALL REPAIR MODOT	ESTIMATED ACTUAL	12/2012 12/2012	ESTIMATED ACTUAL	CONFIDENTIAL TBD
PRAIRIE DELL ROAD IMPROVEMENTS, PHASE I CITY OF UNION, MO	ESTIMATED ACTUAL	09/2014 NA	ESTIMATED ACTUAL	$1,100,000 NA
I-70 ACCESS IMPROVEMENTS PROJECT, CAVE SPRINGS RD TO MID RIVERS MALL DRIVE ST. CHARLES COUNTY & CITY OF ST. PETERS, MO	ESTIMATED ACTUAL	06/2014 NA	ESTIMATED ACTUAL	$20,000,000 NA

Project Managers

Jarrett Jasper, PE | Project Manager. As your proposed Project Manager, I will be your main contact, and will oversee all elements related to the on-call projects. I have over 16 years of experience in roadway design, including serving as Project Manager for the I-70 Access Improvements, Manchester Rd Ph.3, Progress Parkway and Mexico - Salt Lick Intersection projects and Salt River Road projects. I have a thorough understanding of LPA project requirements, and experience coordinating with MoDOT, MSD, utilities and other agencies. I am completely familiar with ADA, PROWAG and ADAAG requirements.

Ramin Ashrafzadeh, PE | Project Manager. Ramin has over 16 years of experience in the design of roadway and infrastructure improvements and am completely familiar with ADA and PROWAG requirements. His experience includes serving as Project Manager for the Broadway Streetscape, Litzsinger Road Improvements, Warson Road Phase II Improvements, and Ladue Road and Sidewalk Master Plan projects and project engineer for Progress Parkway and I-70 Access Improvements.

John Klein, PE | Project Manager/ Engineer. John has over 12 years of experience as a civil engineer with a focus on roadway design, preliminary engineering studies, intersection design, and plan preparation. I am Local Public Agency certified by MoDOT giving me a thorough understanding of LPA project requirements. My experience includes serving as Assistant Project Manager for Progress Parkway, Salt River Road, McKnight Road, and Mexico/Salt Lick Intersection projects as well as Lead Project Engineer for Goodfellow/Skinker, Warson Road Phase III and Page/I-270 Interchange projects.

Aaron Harrison, PE | Project Manager/Engineer. Aaron has over 15 years of experience in civil design related to roadways, sidewalks, trails and site development. He is Local Public Agency certified by MoDOT and has played an integral role in many of the projects listed above including serving as Project Engineer on the Manchester Rd Ph.3, Broadway Streetscape, Litzsinger Road Improvements, Warson Phase II Improvements projects. We will be supported by:

Project Team

Gino Bernardez, PE | Project Principal, QA/QC Reviewer. Gino, Vice President of the firm, has more than 32 years of civil engineering project experience including master planning and design of infrastructure improvements for transportation projects. Gino was Project Principal for all of the projects listed in the above section. As Project Principal and QA/QC Reviewer for these projects, Gino will oversee that I receive the support I need to complete the projects on time and within budget.

Gene L. Rovak, PE, CFM | QA/QC, Hydraulic, CLOMR/LOMR. With a career spanning over 40 years, Gene Rovak has extensive experience with hydraulic and hydrologic analyses for flood investigations, 10 CLOMR/LOMRs, drainage design and master planning studies, and construction documents for site development and infrastructure systems.

Brian D. Schmidt, PE, PTOE, Traffic Engineer. Brian's 12 years of experience in transportation design and construction observation includes being responsible for all of the firm's traffic study and analysis projects. Brian is a certified Professional Traffic Operations Engineer, which documents that Brian has met exacting and objective criteria in the areas of standards, recommended practices, and the policies and procedures necessary to operate effective and efficient traffic facilities. His experience includes the New I-64 Design/Build Project, Progress Parkway, Manchester Rd Ph.3 and Emerson Road Concept Plan.

Stephanie Bleser, PE | Project Engineer. Stephanie is a civil engineer with nine years of experience. Her expertise includes transportation, traffic and railroad engineering. She is proficient with InRoads and MicroStation. Her experience includes Route 47 Improvements and Route 100 Widening/Improvement, both for MoDOT.

Gregory Recker, PE | Project Engineer. Gregory Recker is a civil engineer with 23 years of roadway/highway design and site development experience including conceptual plans, traffic analysis, project cost estimating, public hearings and meetings, signal warrants, preliminary design, value engineering studies, earthwork calculations, pavement drainage, enclosed drainage, storm water detention, right-of-way plans, signal plans, erosion control, traffic control, final design and specification writing. As a former Senior Highway Designer with MoDOT, Greg is thoroughly familiar with their standards and procedures.

David R. Riechmann, PE | Project Engineer. David has five years of experience in the design of roadway improvements. He is experienced with transportation design and traffic studies; highway and street design; preparing rights-of-way and construction plans. His experience includes I-70 Access Improvements, Progress Parkway, the River City Casino Access Road and the new I-64 Design/Build Project for MoDOT.

HORNER & SHIFRIN 72 EMPLOYEE-OWNERS	
15	TRANSPORTATION / CIVIL ENGINEERS
2	CONSTRUCTION ADMINISTRATION
13	STRUCTURAL ENGINEERS
13	ENVIRONMENTAL / SANITARY ENGINEERS
4	ELECTRICAL / MECHANICAL ENGINEERS
10	DESIGNERS/CAD OPERATORS
4	GIS SPECIALISTS
3	SURVEYORS
8	ADMINISTRATION

FAMILIARITY AND CAPABILITY

Horner & Shifrin has assembled an experienced team of engineers adept at handling the variety of roadway projects, such as design and rehabilitation and improvements associated with on-call assignments. Our transportation/civil engineering staff of 15 are fully conversant with agency procedures and can provide the needed services within a realistic timeframe. We have substantial experience with federal funding programs and their requirements and plan accordingly. We will commit the personnel necessary to begin your project immediately upon Notice to Proceed and are dedicated to meeting its completion schedule.

ACCESSIBILITY OF FIRM & STAFF

With offices in St. Louis, Springfield and Poplar Bluff, MO, we have good coverage of the state for early planning trips and site visits. Our engineers are experienced working on projects throughout Missouri, and will be available for meetings with clients for site visits, public informational meetings or other events.

Horner & Shifrin has the relationship and expertise to professionally perform all of your On-Call projects on-time and on-budget. Our staff will continue to suggest better practices that save you time and money on projects. Our team of 15 transportation engineers will be committed and available to dedicate the time needed for all of your potential On-Call projects. We are committed to utilizing a diverse workforce for this and all LPA projects.

We would greatly appreciate the opportunity to show you once again our outstanding quality engineering design services on your On-Call projects. Should you have questions or require additional information, please contact me at 314-335-8656 or Gino at 314-335-8616 or at jjasper@hornershifrin.com or gbernardez@hornershifrin.com.

Sincerely,

Jarrett D. Jasper, P.E.
Associate Vice President
Assist. Dept. Manager, Transportation/Civil Engineering

Gino Bernardez, P.E.
Vice President
Manager, Transportation/Civil Engineering

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Founded in 1933, Horner & Shifrin has been providing professional engineering services to municipalities across Missouri for the past 80 years.

Horner & Shifrin has designed numerous successful projects for Local Public Agencies (LPAs). We have a thorough understanding of all federal requirements, funding obligation deadlines, and specification requirements mandated by MoDOT Local Roads.

Roadway Design

Trails & Sidewalks

Construction Inspection

Traffic Engineering & TEAP

Structures

ROADWAY DESIGN

Horner & Shifrin uses creative design techniques and practical measures, including a strong quality control program, to decrease project costs and provide the highest quality while maintaining the integrity of our transportation projects.

Highway Planning and Design

Local Road and Street Design

Internal Roadways and Parking Design

Traffic Calming Design

Air and Noise Pollution Reduction Design

Public Involvement/Community Relations

Environmental Impact Assessment Studies

Major Investment Studies

Corridor Location Studies

Feasibility Studies

Funding Applications

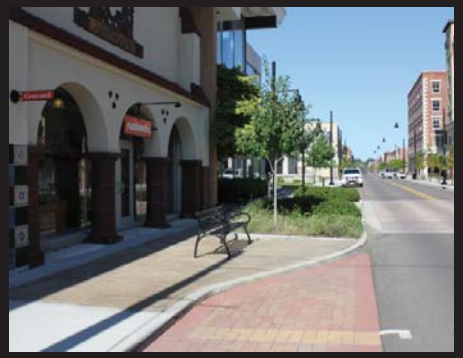
Transportation Funding Alternatives

Safety and Accessibility

City Engineer and On-Call Services

TRAILS & SIDEWALKS

Horner & Shifrin has extensive experience in the planning and design of pedestrian and bicycle trail projects.



Sidewalks | Multi-Use Trails
On-Street Bike Routes | Streetscapes
ADA Compliance | Signage

TRAFFIC ENGINEERING

Horner & Shifrin has the experienced staff and state-of-the-art equipment required to provide the very highest quality data for use in reducing congestion and improving traffic flow and the quality of life for the traveling public.

Traffic Calming Design

Traffic Capacity and Signaling Design

Traffic Studies

CONSTRUCTION INSPECTION

Our construction engineers have successfully managed numerous projects from the bidding phase through project closeout. Our team has the experience needed to identify and resolve conflicts early, avoiding construction delays.

Our familiarity with Federal Highway Administration and MoDOT requirements on Surface Transportation Programs (STP) funded projects provides us with the ability to efficiently process change orders, pay requests, and final closeout documentation.

STRUCTURES

Horner & Shifrin provides a complete array of structural engineering services related to the design and construction of bridges. Our structural engineers are experts in the research, planning, design, construction, inspection, monitoring, maintenance, rehabilitation and/or demolition of permanent and temporary structures.

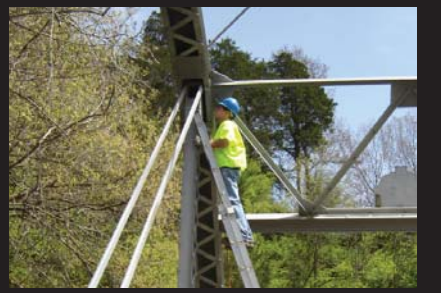
New Bridge Design

Rehabilitations

Replacements

Bridge Studies

Bridge Hydraulics



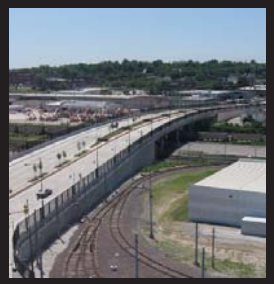
Culverts

Arch Structures

On-call Services

Foundations

Value Engineering



Load Ratings

Pedestrian Structures

Retaining Walls

Seismic Analysis and Design

Fracture Critical Bridge Inspections

Seismic Retrofits

Sign Structures

Funding Application Assistance

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