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Kenny Voss, PE
Local Program Administrator
Missouri Department of Transportation
By e-mail to: MaryAnn.Jacobs@modot.mo.gov

RE: On-Call Structures Services

“At the City of Overland Park, we set the bar high for our consultants to meet our standard of excellence. For the past 10 years, Affinis continually provides us exceptional plans that ensure accurate bidding that saves time and money. As a result, Affinis earns our repeat business.”

-Doug Brown, PE, Director Public Works, Overland Park, Kansas

Dear Kenny,

Missouri drivers count on you to maintain the safety, efficiency, and integrity of the state’s roadway system. It’s a vital responsibility that demands the diligence and dedication you demonstrate every day. When your workflow exceeds your resources and you need the support of an on-call consultant, **you deserve a partner that will synch seamlessly with your team to support that essential commitment.**

Affinis is that partner, providing the expertise, resources and flexibility to perform when you call. Whether you need a full project team or one or two experienced staffers as supplement, we are ready to fulfill your expectations. Affinis is an on-call partner who makes your job easier and who can complete exceptional work without hand-holding. With a **wealth of MoDOT roadway and other relevant experience**, our team has the expertise and practical knowledge to quickly analyze and fulfill your needs, saving your staff time and hassle. In order to fulfill your expectations we work from the premise of listen, learn, deliver, and celebrate...all in that order.

GENERAL EXPERIENCE OF FIRM

We offer significant expertise on projects involving structures design including a working knowledge of MoDOT’s Practical Design philosophy. These efforts also demonstrate the deep responsibility we feel to serving as stewards of your investment by delivering on-time, on-budget projects.

PAST PERFORMANCE

Pleasant Hill Trail, Pleasant Hill, Missouri - Affinis was part of the design team that completed construction documents for Phase II of the Trail Master Plan. Recently a city-wide Bicycle & Pedestrian Master Plan was completed for the City of Pleasant Hill, Missouri. The city used federal Transportation Enhancement funds which are administered through MoDOT’s Local Public Agency (LPA) program to design and construct the project. Affinis led the coordination with MoDOT and provided guidance on the LPA processes for the team. For the design and construction of Phase II, Affinis provided topographic survey, legal descriptions, structural design for retaining walls and pedestrian bridge abutments, storm drainage design, pavement marking and signing, construction traffic control and construction administration. Mark Randall (816-540-3135), with the City of Pleasant Hill, was the project manager.

Maguire Boulevard over Grindstone Creek, Columbia, Missouri - Affinis completed a location and feasibility study for the half-mile extension of Lemone Industrial Boulevard. During final design, the street was renamed to Maguire Boulevard. The \$7.3 million project included a new roadway alignment over rolling terrain, two bridges over Grindstone Creek tributaries, an enclosed storm sewer, and coordination with adjacent development. Stuart King (719-385-5433), currently with the City of Colorado Springs, was the project manager.



Shawnee Creek, Merriam, Kansas - The project involves a half-mile of stream improvements to provide flood protection and to stabilize the stream banks of Shawnee Creek. Along this stretch three culverts at Knox Avenue, Farley Lane, and Switzer Road will be replaced with bridges to increase the conveyance and to protect adjacent homes and roadways from flooding. In addition, a stretch of existing concrete channel, west of Farley Lane, will be widened and extended further upstream to provide flood protection to an adjacent apartment complex. This project will also stabilize the stream banks using riprap or segmental block retaining walls. Hye Jin Lee (913-322-5522), with the City of Merriam, is the project manager.

159th Street, Antioch Road to Switzer Road, Overland Park, Kansas - Affinis designed and detailed several RCBs to accommodate the widening of 159th Street from a two-lane rural section to a four-lane, median-divided section. The RCBs included a double, 7 x 5-foot RCB; an 8 x 5-foot RCB, a double, 8 x 8-foot RCB and the extension of an existing 6 x 6-foot RCB. Wingwalls were designed and constructed to act independently of the RCBs. Affinis completed the hydraulic analysis, prepared appropriate permit applications and completed the stormwater pollution protection plan (SWPPP) to comply with state and federal requirements. Brian Scovill (913-895-6052), with the City of Overland Park, is the project manager.

Metcalfe Avenue—99th Street to 103rd Street, Overland Park, Kansas - This \$8.6 million, half-mile widening of Metcalfe Avenue from four to six lanes was administered by the Kansas Department of Transportation. Besides the roadway and associated improvements, the project included replacing two bridges over Indian Creek with one wider bridge and extending an RCB bridge. The new Indian Creek Bridge is a 140-ft wide, three span (215 feet long), steel girder bridge with integral abutments. Our water resource engineers completed the hydraulic analysis and, following construction, submitted a Letter of Map Revision (LOMR) to FEMA. Dan Stack (785-309-5725), currently with the City of Salina, was the project manager.



North Garth Avenue Bridge over Bear Creek, Columbia, Missouri - Affinis provided design services to replace a narrow, undersized bridge over Bear Creek and improve approximately 600 feet of 32-foot wide approach roadway for a residential collector. Funded by MoDOT's off-system bridge program, the bridge is a three-span (36-foot, 60-foot and 36-foot), prestressed concrete, I-girder structure with round-column, intermediate bents. The bridge accommodates a bike/hike trail beneath it, eliminating an at-grade trail crossing. Stuart King (719-385-5433), currently with the City of Colorado Springs, was the project manager.

Greene County Bridge Replacements, Greene County, Missouri - In Greene County, Farm Roads 144 and 43 were in dire need of attention. Farm Road 144 over Pond Creek was at risk of closing, with a narrow width and poor approach alignment. Affinis designed roadway and bridge improvements to increase safety and function, choosing a 24-foot wide, three-span, prestressed/precast concrete, I-girder bridge because of its economical cost and relatively low maintenance. Farm Road 43 over Pickerel Creek was in similar serious condition, so the project team designed a 28-foot wide, 72-foot long, single-span I-girder bridge. A single-lane wooden bridge on steel trusses on Farm Road 144 over Pickerel Creek was classified as structurally obsolete. As replacement, Affinis designed a 24-foot wide, 78-foot long, concrete, I-girder bridge. Dan Smith (417-831-3591), with Greene County, was the project manager.

I-470 & US-50 Interchange Improvements (J411641B & J411641D), Missouri Department of Transportation - This \$45-million interchange improvement reconfigured the existing interchange, adding a split-diamond interchange at Pryor Road and Blue Parkway and widening I-470 from View High Drive to Douglas Avenue. Affinis was responsible for the preliminary design of the Blue Parkway Bridge over I-470. The interchange improvements are vital to the metro area, as the interchange serves more than 100,000 vehicles a day. Rick Orr (816-607-2233) was the project manager.



Our high ratio of repeat clients speaks to the need for our philosophy in the marketplace and to our success in living it. Don't just take our word for it. Read what our clients say about our work:

“Affinis’s staff worked closely with MoDOT in focusing on practical design consideration throughout the development of I-470/US 50 Interchange improvements in Lee’s Summit, Missouri. Affinis contributed a major part in the overall success and notoriety of the completed interchange. The entire Affinis team was professional, proactive, responsive and experienced in providing services that helped us meet our goals and still keep a tight rein on our budget.”

-Rick Orr, PE , Project Manager, Missouri Department of Transportation, 816-622-0460

“Affinis makes my life easier by putting their expert knowledge of the MoDOT LPA process to work for us to keep our projects running smoothly.”

-Bob Kee, Public Works Director, City of Pleasant Hill, Missouri, 816-540-9130

QUALIFICATIONS OF PERSONNEL

Our team is dynamic and passionate, with extensive technical expertise and applicable knowledge. With our familiarity with MoDOT procedures, we can skip the learning curve and focus on working together, sharing ideas and developing practical solutions.

Richard Worrel, PE: Rick is recognized as a leader in transportation engineering, including transportation structures and stormwater design. As principal-in-charge of transportation projects, his knowledge and experience contribute to a wide array of Affinis projects. Rick’s management skills, and his deep understanding of the public involvement process, make him a particularly important member of our team.

Jason Davis, PE: Jason will be the bridge design and structural design project manager. Jason is an integral part of the Affinis team. As a Facility Engineer with the U.S. Army Reserve, Jason has specific expertise managing projects on military bases and for the U.S. Army Corps of Engineers. This requires working with multiple agencies and stakeholders that are applicable for many MoDOT projects. Jason has designed various types of projects ranging from bridge design, historical bridge reconstruction, retaining wall design, dam and levee structural design and assessments, special structures designs for buildings, and streambank stabilizations.

FAMILIARITY/CAPABILITY

We have worked on multiple MoDOT projects and projects that have MoDOT involvement. We understand the challenges that MoDOT projects bring and what it takes to make your project successful. We work to provide open communication within the project team and with all stakeholders. We offer the expertise in structures design including any stream design and hydraulic analysis aspects. Affinis has the capabilities and the expertise to learn what your engineering needs are and fulfill them.

ACCESSIBILITY

Located in the Kansas City area, Affinis has easy access to I-435 and can travel to most project locations inside of six hours. However, we are best suited for bridge design projects in the western half of Missouri. As a small business, we do not have multiple layers of hierarchy to work through in order to speak with a decision maker. **We pride ourselves on being accessible and responsive, always striving to engineer ways to make your life easier.**

Thank you for the opportunity to submit this letter of interest to provide structural design services. As we continually find ways to make your life easier and the lives’ of roadway users safer and easier, we also focus on being outstanding stewards of your and the taxpayer’s dollars. We appreciate you considering Affinis and look forward to hearing from you.

For the team,



Jason Davis, PE, Project Manager

About Affinis

Our approach to making our clients' lives easier starts with **project management based on our mission to build long-lasting relationships with clients by listening, learning, delivering and celebrating**. At Affinis, project management is more than just delivering a project on time and under budget; it's about understanding your challenges, communicating and collaborating with you while we explore solutions, and striving to achieve higher levels of service and satisfaction for our clients. We celebrate our individual project accomplishments, but more importantly we celebrate relationships we develop along the way. Our **high ratio of repeat clients** speaks to the need of our philosophy in the marketplace and to our success in living it.

Over the years, we have learned the importance of tailoring each approach to meet a project's unique needs. A single approach cannot be applied to all of types of projects. Each project has its own challenges and circumstances. However, our approach to projects is based on **four cornerstones of project management**:

- ✓ Communication, collaboration and coordination
- ✓ Attention to detail
- ✓ Schedule and budget
- ✓ Quality reviews

Our approach enables buy-in of key stakeholders; development of easily maintained and constructible solutions; and commitment to schedule and budget. In a world in which customer service is less important, Affinis Corp is staking its future on building relationships with clients which results in exceptional customer service. As a matter of fact, *Affinis means relationship in Latin*.

OUR MISSION ...

To build long-lasting relationships with co-workers, clients and colleagues by listening, learning, delivering and celebrating.

We serve our clients in the following areas:

- ▶ Infrastructure Planning & Design
- ▶ Civil/Site Planning & Design
- ▶ Water Resources Analysis & Design
- ▶ Levee & Dam Assessment Analysis & Design
- ▶ Sustainable Design & Green Solutions
- ▶ Surveying
- ▶ Traffic Engineering
- ▶ Consulting Services
- ▶ Construction Observation and Administration

OUR VALUES...

- ▶ **Balance** - We embrace the importance and worth of promoting a balance between work and personal life.
- ▶ **Collaboration** - We cultivate productive and fulfilling collaboration among co-workers, clients and colleagues.
- ▶ **Excellence** - We are committed to employing the best, fulfilling expectations and providing optimal solutions.
- ▶ **Servant Leadership** - We selflessly serve others.
- ▶ **Trustworthiness** - We are committed to establishing trust by being honest in all our relationships. Our actions, both public and private, match our words.



“We always like to think of our consultants as extensions of our in-house team. Rarely are we made to feel that the goals and direction of the consultant are genuinely parallel to our own. Affinis has succeeded in doing that.”

- Scott Crain, PE
Blue Valley School District

Quality Reviews

We know design plans don't exist in a vacuum, they can be the key to a successful construction project. We have an established quality control procedure to help maintain our high quality standards. Each project is assigned a quality assurance manager (QAM), an experienced engineer who is not involved in the day-to-day design process. The QAM reviews plans for accuracy and constructability. We have found that having an independent review of the plans helps us find potential deficiencies overlooked by staff working directly on the project.

This focus on constructability saves our clients time and money in the field. Below is a chart of our recent change order history.

“When it comes to consultant produced plans, Affinis would rate at the top of the list. Their plan accuracy reduces construction change orders resulting in lower total project costs.”

- Mark Dombroski,
O'Donnell & Sons Construction

Project and Location	Bid	Percent of Change Orders	LPA Project
ARRA Sidewalk Improvements - Cleveland, Missouri	\$132,278	-0.02%	✓
Hyde Park Improvements - Hutchinson, Kansas	\$1,741,308	-4.33%	
Botts Road Improvements - Grandview, Missouri	\$979,947	1.00%	✓
Walnut Street Improvements - Independence, Missouri	\$696,701	-0.67%	✓
SW Third Street - Lee's Summit, Missouri	\$6,105,325	4.31%	
Blackwell Road - Lee's Summit, Missouri	\$2,800,000	-2.46%	
Langsford Road - Lee's Summit, Missouri	\$4,500,000	-0.02%	✓
Route 1 ADA Improvements - MoDOT	\$1,219,949	12.55%*	✓
Route 169 ADA Improvements - MoDOT	\$1,116,659	1.54%	✓
Business 7 - Signals (Country Club Drive) - Pleasant Hill, Missouri	\$193,602	-0.30%	✓
Business 7 Improvements - Pleasant Hill, Missouri	\$525,618	0.44%	✓
Blue Ridge Sidewalk Improvements - Raytown, Missouri	\$514,488	-9.27%	✓
Residential Streets Group III (South) 2010, Merriam, Kansas	\$716,715	-9.13%	
Residential Streets Group III (North) 2012, Merriam, Kansas	\$954,747	-8.00%	
Antioch Road Improvements (151st - 167th), Overland Park, Kansas	\$13,600,000	-4.68%	✓
College Boulevard Improvements (US-69 - Pflumm) - Overland Park, Kansas	\$8,400,000	13.43%*	✓
Metcalf Avenue Improvements (99th-103rd) - Overland Park, Kansas	\$8,700,000	2.25%	✓
2012 CDBG Neighborhood Street Reconstruction - Overland Park, Kansas	\$1,596,465	-0.80%	

*Client initiated change orders.