



MISSOURI'S LOCAL PROGRAM

November 15, 2013

Kenny Voss, P.E., Local Program Administrator
ATTN: Mary Ann Jacobs
105 West Capitol Avenue
P. O. Box 270
Jefferson City, MO 65102

Dear Mr. Voss:

Juneau Associates is pleased to submit for your review, our professional qualifications to provide engineering services for **Missouri's Local Program On-Call Structural Services Consultant Program**. Juneau Professionals have developed a strong and solid, yet cost effective Bridge Group within Juneau Associates and have many years of experience with bridge evaluation, repair, and replacement projects. Our vast experience with bridge structures includes Bridge Replacements, Hydraulics, Bridge Rehabilitations, and Bridge Evaluation/Rehabilitation/Maintenance for many clients in both Missouri and Illinois. Qualities that set Juneau apart from other firms include:

- **Our Bridge Group** – Juneau's Bridge Group has worked together for most of their careers and has worked with MoDOT's Bridge Office since 1991. During their careers, our Bridge Group has completed hundreds of bridge replacement projects ranging from single-cell box culverts to 1400-ft long multi-span bridges.
- **Bridge Replacement Experience** – In the past 5 years, Juneau Associates' Professionals have provided design services for the following Bridge Replacement Projects involving federal funds or State/City/County funding. These projects involved preparing hydraulic analyses, preliminary plans, construction cost estimates, and final construction documents for bridge structures. Often these designs involve seismic design for Seismic Category 2, complex geometrics including horizontal curvature or flaring, unique foundation designs, and/or complex staged construction. Juneau has also worked for MoDOT on six Bridge Replacement Projects since 2005.

Federally Funded Projects

- Fox Creek Road Bridge, **City of Wildwood**
- Woods Road Bridge, **City of Wildwood**
- Timberlake Manor Parkway Bridge, **City of Chesterfield**
- Claychester Drive Bridge, **City of Des Peres**
- Castle Ranch Road Bridge, **Jefferson County**
- DeWitt Street Bridge over Joachim Creek, **City of De Soto**
- Geyer Road Bridge over Two-Mile Creek, **City of Frontenac**
- Sandy Church Road Bridge, **Jefferson County**
- Strecker Road Bridge, **City of Wildwood**
- Hardt Road Bridge, **City of Wildwood**
- Old Hwy. 110 Bridge over Joachim Creek, **City of De Soto**
- Ossenfort Road Bridge, **City of Wildwood**
- Compton Avenue Bridge over Mill Creek Valley, **City of St. Louis**

State/City/County Funded Projects

- Seiler Road Bridge, **Madison Co. Hwy. Dept., IL**
- Old State Road Pedestrian Tunnel, **City of Wildwood, MO**
- Wolf Road Bridge, **Madison Co. Hwy. Dept., IL**
- Possum Hill Road Bridge, **Madison Co. Hwy. Dept., IL**
- Meisenheimer Road Bridge, **Madison Co. Hwy. Dept., IL**

MoDOT Projects

- **Route P Bridge over Mill Creek**, Ste. Genevieve County
- **Route D Bridge over North Fork of Middle Fabius River**, Scotland County
- **Route 10 Bridge over US 69**, Clay County
- **Route 10 Bridge over Fishing River**, Ray County
- **Route 100 Bridge over Little Boeuf Creek**, Franklin County
- **Page Avenue Bridge over TRRA**, St. Louis County

- **Hydraulics Experience** – This experience includes the completion of over 35 Hydrology & Hydraulics Reports in accordance with MoDOT, Local Public Agency, St. Louis County, and MSD standard requirements for culvert and bridge replacement projects. In addition, we have experience with making minor channel improvements in order to decrease a replacement bridge’s length and/or skew and ultimately, reduce overall project costs.
- Juneau’s **Bridge Rehabilitation Experience** has grown significantly within the last 3 years. Our staff has completed or is currently working on 7 bridge rehabilitation projects within the St. Louis Metro Area. These bridge projects have ranged from superstructure replacements on bridges less than 50 feet in length, to repairing bridges over 950 feet in length that involved replacing and/or eliminating expansion joints, concrete deck repairs, bearing replacements, and substructure concrete repairs. These bridge rehabilitation projects are:
 - Blow Street over a Branch of Joachim Creek, **City of De Soto**
 - Second Street over Tanyard Branch, **City of De Soto**
 - Meisenheimer Bridge, **Madison County, IL**
 - FAI Route I-255 NB & SB, **IDOT**
 - 19th Street Bridge, **Granite City, IL**
 - Wood River Refinery Bridge over NSRR, **Conoco-Phillips**
 - Geyer Road Bridge, **Frontenac, MO**
- In addition to the above-mentioned projects, Juneau was selected by the City of St. Louis to establish their Bridge Maintenance and Management Program where Juneau’s **Bridge Evaluation/Rehabilitation / Maintenance Experience** was utilized. These 71 bridges ranged from a single span structure, 22 feet in length to multi-span structures over 4,000 feet long (Eads Bridge over the Mississippi River). Engineering task items performed by Juneau during the *Evaluation Phase (Phase 1)* included a visual investigation and report of all bridges, concrete sampling and testing, determining underlying causes for observed deterioration, preparing service life predictions and life cycle cost analyses, and completing a Final Phase 1 Report. *Rehabilitation Phase (Phase 2)* engineering tasks included the preparation of final construction documents for bridge repair items established during Phase 1 and assisting the City during the bidding phase as well as throughout the construction phase. Juneau will prepare Final Construction Documents for the bridge rehabilitation and maintenance items over the next 4 years. During the first year, 2009, final construction documents were prepared for 11 bridges for a total of \$4.8 million in construction costs. Some of these repairs included cleaning and painting weathering steel beam ends, repairing deteriorated steel beams and plate girders, replacing expansion joints, replacing bearings, and repairing or replacing concrete substructure units. By establishing an overall Bridge Maintenance and Management Program for the City’s bridges, the City can continue to apply for Federal Funding for use on the Phase 1 recommended repairs in future years.

For **Missouri’s Local Program On-Call Structural Services Consultant Program**, the following **Project Team** will be assigned:

• Project Manager	Wesley W. Herndon, P.E., S.E.	• Structural Engineer	Nawin Khatri, P.E.
• Structural Engineer	David Burdick, P.E.	• Structural Engineer	Chris Henquinet, E.I.T.
• Structural Engineer	Rajesh Shrestha, P.E.	• Technician	Eric Roth

Mr. Wesley Herndon, PE, SE, Project Manager, has successfully managed numerous bridge and roadway projects with complex or unique components for numerous DOT, County, and Municipalities during his 30 years of experience. He has worked on more than 100 bridge and highway projects and has managed projects with more than \$200 million in construction costs in the past 10 years. While at Juneau, Mr. Herndon managed three MoDOT bridge projects (listed in Why Juneau). In addition, he has served as project manager for over 30 bridge replacement projects for MoDOT’s Bridge Division since 1991.

Mr. David Burdick, PE, Bridge/Structural Engineer, over 32 years of Bridge Engineering experience and has worked on numerous bridge and retaining wall projects, 20 of those years working directly with Wes Herndon while at Juneau and a previous firm. His bridge experience includes the design of multiple superstructure types such as steel, reinforced concrete, and precast prestressed concrete, and substructure types including integral and non-integral abutments, multi-column bents, and solid wall bents. These substructure units were supported by steel bearing piles, drilled shafts, or spread footings. Mr. Burdick was the Structural Engineer for three MoDOT bridge projects (See Why Juneau). In addition, Mr. Burdick has served as structural engineer for over 28 bridge replacement projects for MoDOT’s Bridge Division since 1991.

Mr. Rajesh Shrestha, PE, Bridge/Structural Engineer, has over 6 years of structural engineering experience involving bridge design and detailing, load rating, structure inspections, performing hydraulic and scour analyses, and preparing bridge condition reports. In addition, he has solid experience in running the structural analysis and design software, hydraulic modeling software, drafting software as well as Microsoft office software. Mr. Shrestha performed structural engineering duties on numerous bridge replacement projects in Missouri, including three bridges in the City of Wildwood, three in the City of De Soto, two in Jefferson County, one for the City of Frontenac, and one for the City of Chesterfield.

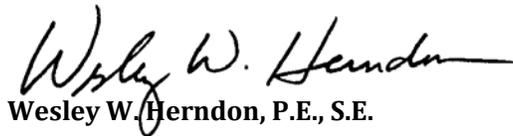
WHY JUNEAU? - We believe Juneau possesses all of the strengths needed to complete this project both on time and to minimize overall project cost. Our Team's strengths that would prove effective on this project include:

- **Bridge Design Experience** - Juneau's Bridge Group has managed, designed and detailed numerous bridge replacement projects. Within the last 5 years, our Bridge Group has prepared bridge plans to replace 11 bridges in Missouri, 7 in Illinois, and prepared bridge plans to repair 16 bridges in Missouri, and to repair 3 bridges in Illinois. All 11 bridges in Missouri have consisted of either PPC I-girders or PPC box girders, all of which were designed to act compositely with the reinforced concrete deck.
- **Extensive Experience Designing and Detailing MoDOT Bridge Plans** -Wes Herndon served as Project Manager, and David Burdick as Structural Engineer for numerous MoDOT Bridge Replacement Projects since 1991. Our Team recently completed MoDOT's Route P Bridge over Mill Creek in Ste. Genevieve County, a three span prestressed concrete I-girder bridge. The deliverables were submitted early and under budget.
- **Cost Effective Bridge Designs** - Juneau's overhead rates are consistently low. Our previous three MoDOT projects listed herein were all below the Not-to-Exceed amount: ♡Route 100 Bridge over Little Boeuf Creek (*8% below*), ♡Page Avenue Bridge over TRRA (*5% below*), ♡Safe & Sound Bridges (*5% below*)
- **Completing Final Bridge Designs for Short Timeframe Projects** - Juneau's personnel have worked on numerous Final Design Projects for MoDOT's Bridge Division, which generally were near the end of the year and were accomplished in very short timeframes.
- **Juneau's QA/QC Plan** - Our comprehensive QA/QC procedures consists of the Juneau Corporate Design Quality Manual along with the Design Quality Control Plan that is tailored specifically for each project. In tandem, both documents deliver our objective of providing 100% complete design projects that exceed client expectations the first time, every time.

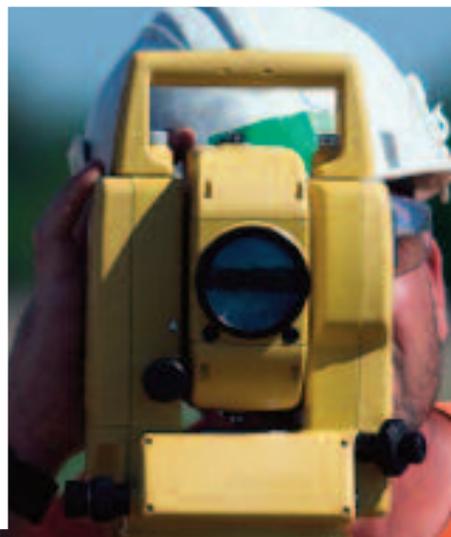
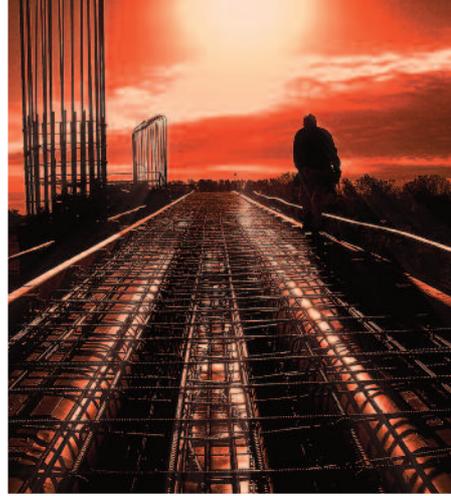
In closing, we believe our Project Team is a very good fit for **Missouri's Local Program On-Call Structural Services Consultant Program** based on our vast experience in evaluating, rehabilitating, and replacing bridge structures and in preparing preliminary and final construction documents that eliminate functionally obsolete bridge items, increase the bridge's load carrying capacity, and extend the bridge's overall service life. If you have any questions regarding this Letter of Interest, please contact me at 314.241.4444. Juneau is excited to have an opportunity to work with Missouri's Local Program, and we look forward to hearing from you.

Respectfully submitted,

JUNEAU ASSOCIATES, INC., P.C.



Wesley W. Herndon, P.E., S.E.



 **JUNEAU**
ENGINEERING & LAND SURVEYING



Juneau has provided professional engineering, land surveying and construction management services for public and private clients since 1980. Today, the firm has an extensive engineering staff with outstanding professional qualifications in the fields of Civil Engineering and Land Surveying.

Disciplines:

- Water & Wastewater
- Trails
- Land & Route Surveying
- Bridges & Structures
- Sewer Rehabilitation
- Site Development
- Parks & Recreation
- Public Transportation
- Industry
- Education

Civil Engineering

- Feasibility Studies
- Project Reports
- NEPA Compliance and Documentation
- Storm Sewer Design
- Drainage Analysis
- Preliminary and Final Construction Documents and Specifications

Transportation Engineering

- Roadway Design
- Intersection Design
- Roundabout Design
- Pedestrian and Bicycle Trail Design

Structural Engineering

Structural Services

- Computer-Aided Design and Details
- Structure Inspections and Evaluations
- Structural Design and Analysis
- Seismic Analysis
- Specifications
- Structure Retrofits
- Fracture Critical Inspection

Structure Types

- Bridge Replacements & Retrofits
- Buildings
- Foundations
- Water/Wastewater Facilities
- Industrial Structures
- Retaining Walls
- Temporary Shoring
- Tunnels

Our best engineering and management skills are incorporated throughout each step of the concept, design, and construction processes. We give each project our total commitment from concept to completion, following through on all of the details that help us complete quality projects.



Construction Engineering

- On-site Construction Monitoring
- Documentation & Record Drawings
- Construction Staking
- Quality Assurance
- Construction Claims Analysis

Water & Wastewater Engineering

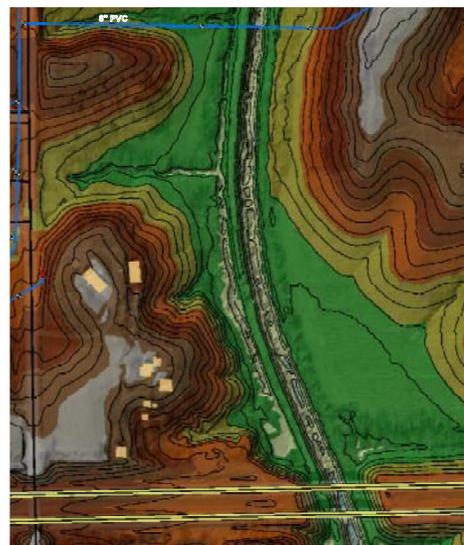
- System Study/Report
- System Modeling
- Rate Review
- Water Main Design
- Sanitary Sewer Design
- Lift Station Design
- Sanitary Sewer/Manhole Rehab
- Permit Applications
- Funding Applications
- Preliminary & Final Construction Documents and Specifications

Land Surveying

- Property Research
- Boundary & Topographic Surveys
- Pipe & Transmission Line Surveys
- Subdivision Surveys & Platting
- ALTA/ACSM Land Title Surveys
- GPS Surveys
- Construction Layout & Staking
- Hydrographic Surveys
- Industrial Precision Alignment

Geographic Information Systems

- GIS Mapping
- Data Conversion
- Database Development
- Interactive Data Access Development
- Utility (sewer, water) System Mapping
- Site Environmental Mapping

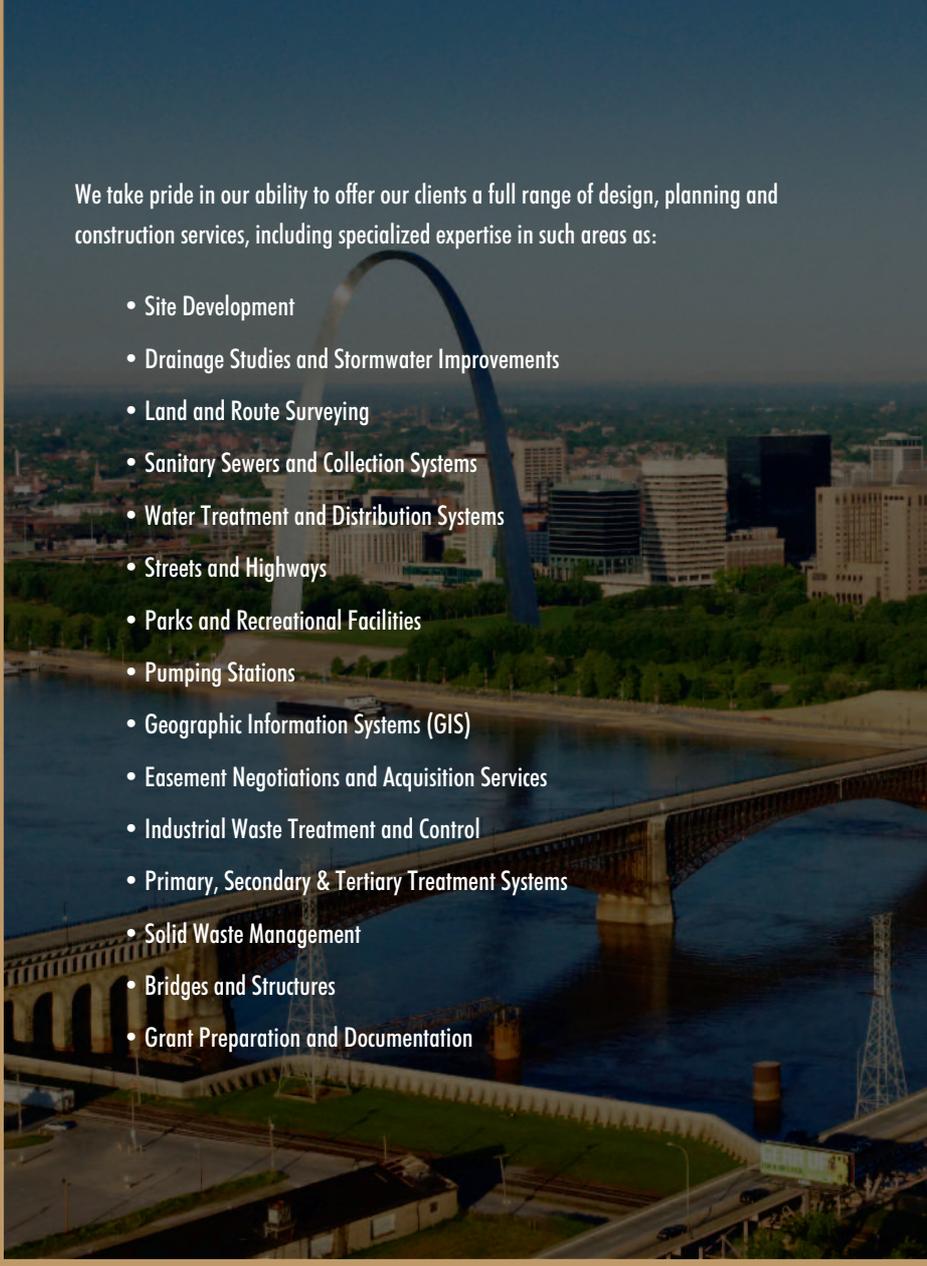


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- Streets and Highways
- Parks and Recreational Facilities
- Pumping Stations
- Geographic Information Systems (GIS)
- Easement Negotiations and Acquisition Services
- Industrial Waste Treatment and Control
- Primary, Secondary & Tertiary Treatment Systems
- Solid Waste Management
- Bridges and Structures
- Grant Preparation and Documentation



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Juneau Associates, Inc. P.C.