



November 8, 2013

Mr. Kenny Voss, P.E.  
Local Program Administrator  
Missouri Local Roads Program

RE: **Letter of Interest – Structures**

Dear Mr. Voss:

This letter is in response to MoDOT's Local Program solicitation letter dated October 1<sup>st</sup>, requesting Consultants to submit a letter of interest to provide professional services to LPA's for the above referenced on-call services. **Please consider this letter our expression of interest.**

### 1. GENERAL EXPERIENCE OF FIRM:

We specialize in providing federally funded **bridge design** engineering services to Counties and Municipalities throughout Missouri. Over the past 7 years, SC Engineering, LLC dba **Cochran** has designed over **13 federal aid bridge projects**. Our services included: survey, geotechnical engineering, preliminary plans, utility relocation coordination, ROW plans (including deeds and plats), bridge design, structural design, storm water system design, hydraulics, final PS&E, and construction inspection. The following is a partial list of federal aid bridge projects that we have recently designed in accordance with MoDOT's LPA guidelines and procedures:

Key personnel on the following projects included: Dave Christensen (Principal), Tary Todd (Project Manager), Brad Dunagan (Design Engineer), Karen Albert (Geotech Engineer), Mike Spalding (Design Engineer), Tim Van Leer (Surveyor), Mark Huber (Construction Inspector), and Cochran's Lab conducted the materials testing:

**Audrain County: Road 256 Bridge Replacement, BRO-B004(36)** - The project included clearing and grubbing; unclassified excavation; 8,821 cy of embankment in place; 1,464 tons of rock blanket, 336' of structural steel piles; construction signage; pile point reinforcement; 311 sy of slab on concrete girder; four (4) 115' long prestressed concrete girders; 250 lf of SL-1 bridge rail, and seeding. We received four competitive bids from contractors, and the low bid was submitted by C & S Companies, Inc. in the amount of \$370,863.15. Design completed June 2010, construction in the Fall 2010. Client Reference: Richard Webber, Presiding Commissioner – 573-473-5823.

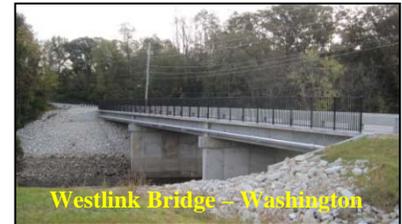


**City of Union: Church Street Improvements, STP-5436(601)** - The project included clearing, grubbing & stripping; bridge removal; earthwork; curb and gutter removal and replacement, sidewalk removal and replacement; new concrete sidewalk in areas that did not have sidewalks; 100' span prestressed concrete I-Girder bridge; retaining walls with decorative form liners; restoration, ADA detectable warning devices, pavement milling, asphalt overlay, and pavement striping. Design completed September 2008, construction completed in the Summer 2009. Client Reference: Jonathan Zimmermann, P.E., City Engineer – 636-583-3600.



**Franklin County:** [Flottman Road Bridge Replacement, STP-5490\(606\)](#) - The project included clearing, grubbing and stripping; excavation and embankment in place; guardrail; type 2 rock blanket; construction signage; pre-bore for piling; 177 sy of slab on concrete I-Girder; 57 ft prestressed concrete I-Girders; seeding, mulching and fertilizing. We received bids from eight contractors, and the low bid was submitted by Harry H. Houf & Sons Construction Company in the amount of \$282,802.00. Design completed December 2006, and construction summer 2007. Client Reference: Previous Public Works Director Richard Wilson, P.E., now serving as Director of Public Works at the City of University City – 314- 505-8566.

**City of Washington:** [Westlink Industrial Drive Bridge Replacement, BRM-6400\(619\)](#) - The project included clearing and grubbing; unclassified excavation; 2,889 cy of embankment in place; 2,201 sy of 11” thick non-reinforced concrete pavement; 8” diameter sanitary sewer main relocation; 10” water main relocation; guardrail; type 2 rock blanket; construction signage; 1,275’ of structural steel piles; pile point reinforcement; 798 sy of slab on concrete I-Girder; 69 ft prestressed concrete I-Girders; seeding; and pavement striping. We received ten competitive bids from contractors, and the low bid was submitted by Goodwin Brothers Construction Company in the amount of \$1,041,000. Design completed August 2009, Construction winter 2010. Client Reference: Dan Boyce, P.E., City Engineer -- 636-390-1010.



**City of Union:** [West Park Road Bridge Replacement, BRM-6201\(605\)](#) - The project included: removal of the existing bridge, pavement milling, 737 tons of base asphalt, 2,919 sf of concrete sidewalk, ADA detectable warning devices, 999 lf of concrete curb and gutter, mobilization, 8” diameter sewer main relocation, 443 cy of excavation, 360’ of 10” structural steel piles, pre-bore for piling, pile point reinforcement, 44,495 lbs of grade 60 epoxy coated reinforcing steel, restoration, 294 tons of BP-1 asphalt overlay, and pavement striping. We received nine competitive bids from contractors, and selected the bid by KJ Unnerstall, Inc. in the amount of \$438,648. Design completed July 2009, construction complete in the summer 2010. Client Reference: Jonathan Zimmermann, P.E., City Engineer – 636-583-3600.

**City of Herculaneum:** [M.R. & B.T. Railway Memorial Bridge Project, DP-9900\(617\)](#) - The project included 23 acres of clearing and grubbing; 5,000 cy of unclassified excavation; 193,000 cy of fill roadway embankment; 9,700 sy concrete pavement; a 343’ long bridge with pre-stressed concrete bulb-tee girders and corral curb; street lights; seed and straw; and pavement striping. We received seven competitive bids from contractors, and selected the low bid by Pace Construction, Inc. in the amount of \$4,680,000. Design completed November 2008, construction completed in the summer of 2012. Jim Kasten, City Administrator – 636-475-4447



**Franklin County:** [Shotwell Road Bridge Replacement, STP-6203\(601\)](#) - The project included clearing, grubbing and stripping; excavation and embankment in place; guardrail, 2,155 sy of bituminous pavement; type 2 rock blanket; construction signage; pre-bore for piling; 226 sy of slab on concrete I-Girder; 74 ft prestressed concrete I-Girders; seeding, mulching and fertilizing; and pavement striping. We received bids from five contractors, and the low bid was submitted by Don Schneiders Excavating Company in the amount of \$353,627. Our engineers estimate was \$388,590. Design completed September 2008, construction completed summer 2009. Client Reference: Previous Public Works Director Richard Wilson, P.E., now serving as Director of Public Works at the City of University City – 314- 505-8566.

## 2. PAST PERFORMANCE:

Please see our attached Company Reference Forms, which demonstrate our quality of work and customer service responsiveness.

## 3. QUALIFICATIONS OF PERSONNEL:

SC Engineering, LLC dba **Cochran** employs a qualified team of engineers, surveyors, designers, inspectors, material testing technicians, and administrative personnel. The following key personnel will be designated for these types of projects:

**Principal-In-Charge** – **Mr. Dave Christensen, P.E., MPPA**, is the Vice President of Cochran and has over 16 years of experience and has managed numerous multi-million dollar public works infrastructure projects. Mr. Christensen's primary role will be to assign the appropriate levels of resources to meet the project schedule and budget. Mr. Christensen takes ultimate responsibility to maintain the project budget, project schedule, and project performance. Mr. Christensen served as Principal-In-Charge for all of the projects listed in this submittal.

[Education: Master of Science, Public Policy Administration, University of Missouri – St. Louis, 99'; Bachelor of Science, Civil Engineering, University of Missouri - Rolla, 91']

**Technical Project Manager** - **Mr. Tary Todd, P.E.** is the Director of Road and Bridge Design for Cochran. Mr. Todd will be responsible for the technical work and overall design production. Mr. Todd has over twenty five years of experience designing sidewalks, roadways, and bridges located throughout Missouri. Mr. Todd has been involved with the design, management and construction of numerous roadway rehabilitation and bridge replacement projects, specifically: roadway rehabilitation – 30+ projects, Off-System – 33 bridges; On-System – 5 bridges; County/Private – 64 bridges. [Education: Bachelor of Science, Civil Engineering, University of Missouri - Columbia, 85']

**Bridge Design Engineer** – **Brad Dunagan, P.E.** is a senior bridge design engineer for Cochran. Mr. Dunagan has over 35 years of roadway design and project management experience. Mr. Dunagan has been involved in the design and management of Federal Off-System and Non Off-System bridge projects, utilizing prestressed precast concrete members, structural steel plate girders, post-tensioned concrete slabs, and reinforced concrete box culverts. In addition, Mr. Dunagan has considerable experience in the area of bridge inspection, having performed inspections and ratings for bridges in over 15 counties in the state of Missouri. This included the field inspection and evaluation of the structures, as well as performing structural analysis to determine a safe load carrying capacity. Federal aid project design and construction experience – 50+ bridge replacement projects. [Education: Bachelor of Science, Civil Engineering, University of Missouri - Columbia, 77']

**Geotechnical Investigation** - **Ms. Karen Albert, P.E.** will be the lead geotechnical engineer for this project. Ms. Albert is a Senior Project Manager for Cochran and is responsible for project management of geotechnical investigation and design projects. Ms. Albert has over 11 years of experience in geotechnical engineering as a project engineer and as a project manager. [Education: Graduate School (PhD), Geological Engineering, University of Missouri – Rolla, Aug. 98 to Dec. 99'; Master of Science, Geological Engineering, University of Missouri – Rolla, 94'; Bachelor of Science, Geological Engineering, University of Missouri – Rolla, 92']

**Surveying** - **Mr. Tim Van Leer, P.L.S.** will serve as the Survey Manager for this project. He is in charge of Cochran's survey department and will be responsible for coordinating and scheduling the surveys and base map preparation. He has over 10 years of responsible experience in all aspects of land surveying. His surveying experience specifically includes performance and supervision of topographic, hydraulic, boundary, right-of-way, and construction staking. Mr. Van Leer served as surveyor for all of the projects listed in this submittal. [Education: Associate of Applied Science in Drafting and Design; East Central College, 02']

#### 4. FAMILIARITY/CAPABILITY:

Over the past 7 years, SC Engineering, LLC dba **Cochran** has designed over 15 federal aid bridge projects. As a result, we are very familiar with the federal aid process and MoDOT's LPA guidelines and procedures.

#### 5. ACCESSIBILITY:

We are committed to providing incomparable resources and customer service responsiveness. Please contact our Clients on the attached Company Reference Forms regarding our record of responsiveness. After reviewing our credentials, we look forward to meeting with you to discuss our qualifications in further detail. I can be reached at 314-220-7016 or [david@cochraneng.com](mailto:david@cochraneng.com). Thank you.

Yours very truly,  
Dave Christensen, P.E.  
Vice President



**Missouri's  
Local  
Program**  
for community  
development

## COMPANY REFERENCE FORM

Firm's Name: Cochran

Local Agency Name: City of Wildwood

Local Agency Phone Number: 636-458-0440

Name & Title of Rater: Ryan S. Thomas, Director of Public Works

General Project Description/Type:

Eatherton Rd. Bridge Replacement - replaced one-lane bridge with new, wider structure

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments:

Provided cost-effective design, which also minimized the duration of the road closure. Design plans very easy to interpret, which was helpful when acquiring right-of-way.



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## COMPANY REFERENCE FORM

Firm's Name: Cochran

Local Agency Name: Franklin County

Local Agency Phone Number: 636-583-6361

Name & Title of Rater: Joe Feldmann/Co. Engineer

General Project Description/Type:

Performed the Surveying and Design engineering for the Wild Plum Valley Bridge.

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments:

Cochran has done consulting engineering on numerous projects for Franklin County and are presently working on a bridge project for us over the Meramec River. Their work is exceptional and I would recommend them for this type of work.



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## COMPANY REFERENCE FORM

Firm's Name: COCHRAN ENGINEERING

Local Agency Name: CITY OF HERCULANEUM

Local Agency Phone Number: (636) 475-4447

Name & Title of Rater: JIM KASTEN CITY ADMINISTRATOR

General Project Description/Type:

JOACHIM SOUTH BRIDGE AND ROADWAY

Work Category:

- Roadway Design
- Trails & Sidewalks
- Construction Inspection
- Traffic Engineering & TEAP
- Structures

Timeliness:

- Below Average
- Average
- Above Average
- Excellent

Work Quality:

- Below Average
- Average
- Above Average
- Excellent

Overall Rating:

- Below Average
- Average
- Above Average
- Excellent

General Remarks/Comments:

VERY HELPFUL WITH DEALING WITH CONTRACTOR ISSUES!

## COCHRAN COMPANY BROCHURE

The staff at COCHRAN, as a whole and individually, has been involved with consulting solutions for many different and unique engineering and construction problems. The firm is not only defined by nearly 40-years of engineering and surveying experience, but several years of construction project bidding, project management, and construction personnel and equipment scheduling. As you will see in this brochure, we specialize in all facets of Civil Engineering, Road and Bridge Design, Surveying, Geotechnical, Construction Inspection, and Materials Testing.

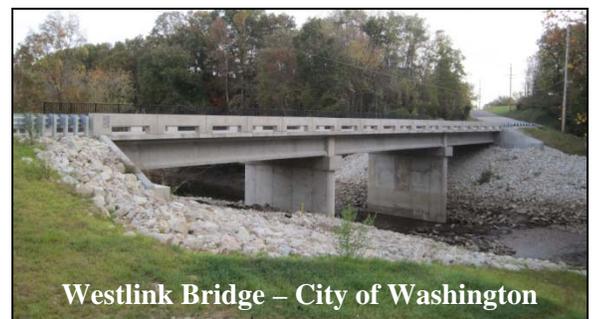


**Manpower** – Cochran is a “Full Service” civil engineering and architectural firm, with four offices in Missouri. Our offices are located in Fenton, Union, Wentzville, and our new office in Camdenton. Cochran’s offices are currently providing professional services on over one hundred projects throughout Missouri. However, Cochran maintains a manageable workload to meet client expectations. We constantly update our resource and staffing capacity (*50+ staff, including 12 professional engineers, 6 professional land surveyors, and 2 licensed architects*).

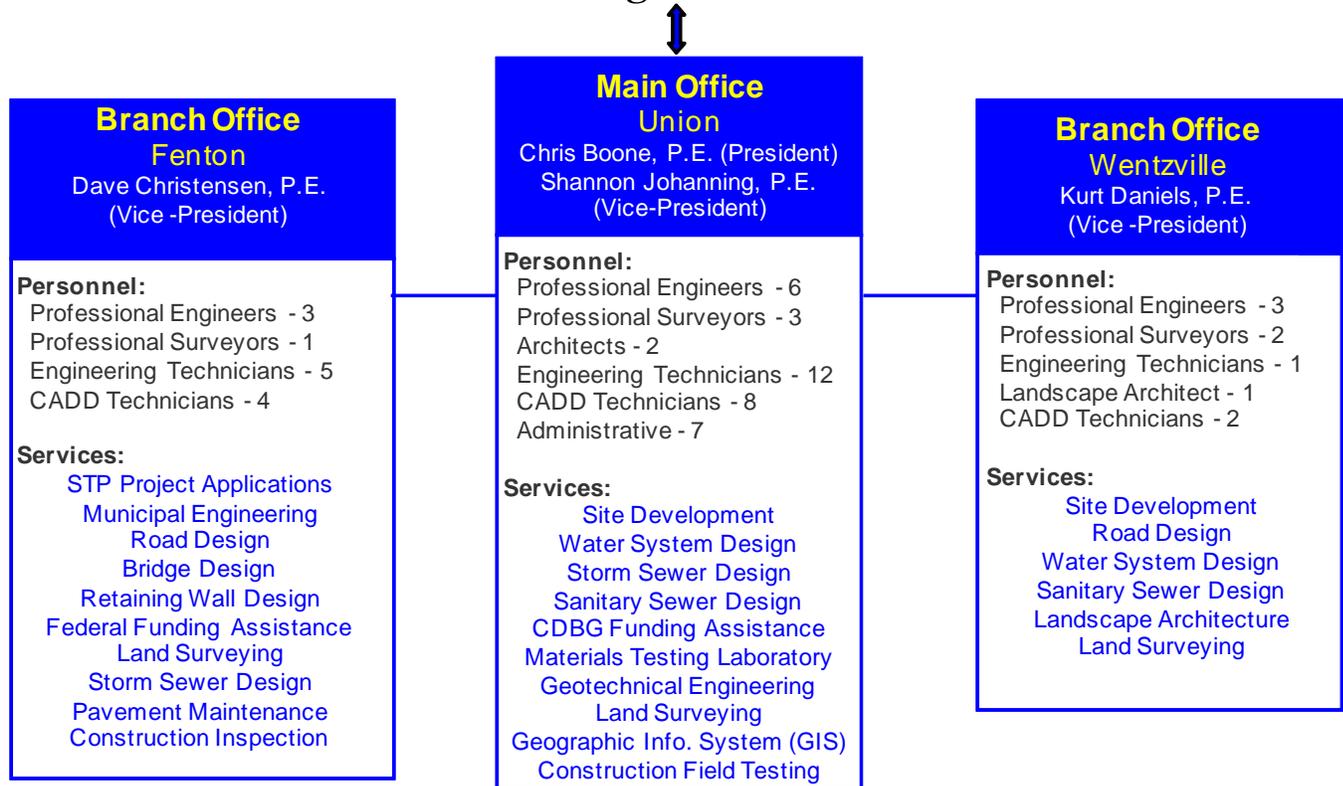
We provide civil engineering, surveying and architectural services to public and private clients throughout the Midwest. Specifically, we have provided municipal engineering/surveying services for numerous governmental entities in St. Louis County, Franklin County, Jefferson County, and St. Charles County.

### Our Services Include:

- Road and Bridge Design
- Municipal Engineering
- Capital Improvements Programming, Coordination and Implementation
- Federal Funding Assistance
- CDBG Funding Assistance
- Site Development and Design
- Storm Sewer Engineering and Design
- Geotechnical Engineering
- Preventive Pavement Management Plans
- Sanitary Sewer Design
- Geographic Information Systems (GIS)
- Public Presentations and Meetings
- Engineering Review
- Surveying
- Mapping
- Construction Administration
- Construction Testing and Inspection



## Cochran - Organizational Chart



### Roadway & Bridge Design

Cochran provides all civil engineering services needed to develop roadway infrastructure improvements for a project. Our one-stop-shop approach has helped hundreds of clients from planning through successful construction. In addition, our extensive knowledge of preventive pavement maintenance, rehabilitation techniques, complete reconstruction, pavement widening, safety enhancement, etc. allow us to provide services to accommodate road projects of any size.

We have a uniquely qualified team of engineers, land surveyors, designers, inspectors, and administrative personnel, who possess the technical knowledge to perform the services listed below. In addition, we provide a "customer service" attitude to the elected officials, community and in-house staff.

#### Our Services Include:

- Roadway Rehabilitation Engineering
- Bridge Design
- Concrete Pavements
- Full Depth and Asphalt Overlay Projects
- Ultra Thin (Nova Chip) Projects
- Road and Bridge Design
- Federal Funding Assistance
- Civil Engineering and Design
- Geotechnical Engineering
- Preventive Pavement Management Plans
- Storm Sewer Design
- Geographic Information Systems (GIS)
- Public Presentations and Meetings
- Engineering Review
- Surveying/Mapping
- Construction Administration, Testing and Inspection

## Surveying

We specialize in all facets of land surveying and data collection. Our land surveying department is an integral component of our firm. This department functions as both an autonomous group and as a support service to our engineering services. Our in-house land surveying equipment and technology provide quick and accurate data for cost-effective and successful projects.



The value of accurate and comprehensive land surveys cannot be overestimated. Numerous public agencies, utilities, land developers, engineers, architects, and others make constant use of our state-of-the-art professional land surveying services.

### Types of land surveying services we provide include:

- ✓ Design Surveys
- ✓ Topographical Surveys
- ✓ Boundary, ALTA, and Utility Surveys
- ✓ Right-Of-Way Plats
- ✓ Subdivision Platting
- ✓ Lot Surveys
- ✓ Easement Preparation
- ✓ Construction Staking

## Storm Sewer Design

Storm water runoff on any drainage area is a function of climate and the physical characteristics of the area. Factors that may be pertinent in precipitation-runoff relationships include precipitation type, rainfall intensity, duration, and distribution; initial soil moisture conditions; soil type; evaporation; transpiration; and the size, shape, slope, elevation, directional orientation, and land-use characteristics of the drainage area.



Our experts at Cochran Engineering have studied, evaluated and designed solutions for storm water issues on every level, from major developments to individual facilities. Our experts have performed storm water engineering services for municipalities, which have included immediate and long-term planning solutions. We have extensive experience with regulatory agencies, specifically the acquisition of permits and approvals.

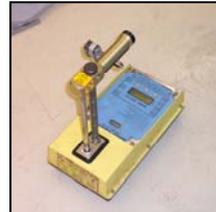
### Services we provide include:

- Hydraulic Analysis Drainage systems
- Swales and Drainage Channels
- Design of Retention and Detention Basins
- Erosion Control Assessments and Facilities
- Drainage System Evaluations and Studies
- Hydrologic Computer Modeling and Calculations
- Evaluation of Hydraulic Structure Capacities
- Preparation of Site Maps
- Urban Runoff Collection and Management
- Water Quality Analysis and Mitigation

## Construction Management

**AASHTO Certified Lab** - Cochran maintains a soils mechanics laboratory equipped with modern testing instrumentation. Tests are conducted in accordance with applicable ASTM procedures. We conduct field inspection/testing and lab analysis/testing services to ensure that project specifications are met. Our technicians are MoDOT certified and have ACI Registrations to provide all facets of pavement and bridge construction quality control. Services include:

- **Lab:**
  - Sieve Analysis
  - Asphalt Core Density
  - Asphalt Lab Testing
  - Soil Testing
  - Atterberg Limits
  - Standard and Modified Proctor
  - Aggregate Analysis
  - Concrete Compression Testing
- **Field:**
  - Pavement Coring
  - Nuclear Density Compaction Testing – Asphalt, Soil, and Rock
  - Asphalt Placement Quality Control
  - Portland Cement Concrete Quality Control – Cylinders, Slump, and Air Testing
  - Foundation Construction
  - Structural Masonry Quality Control



## Municipal References

### City of Herculaneum

Jim Kasten, City Administrator, 636-475-4447

### City of New Haven

Steve Roth, City Administrator, 573-237-2349

### City of Pacific

Harold Selby, City Administrator, 636-271-0500

### City of Sullivan

J.T. Harding, City Administrator, 573-468-4612

### City of Hillsboro

Gery Marmaduke, City Administrator, 636-797-3334

### City of De Soto

Dave Dews, City Manager, 636 586-3326

### City of Wildwood

Ryan Thomas, P.E., Director of PW, 636-405-2041

### City of Union

Jonathan Zimmermann, P.E., City Eng., 636 583-3600

### City of Ladue

Anne Lamitola, City Engineer, 314-993-5665

### City of Washington

Dan Boyce, P.E., City Engineer, 636-390-1010

### City of Crystal City

Debbie Johns, City Clerk, 636-937-4614

### City of St. Clair

Rick Childers, City Administrator, 636-629-0333

### Franklin County

Joe Feldman, County Engineer, 636-583-6362