

**Job Description:**

**Missouri's Local Program**  
**On-Call Professional Services**  
Roadway Design



**Responsible Office:**

BFA, Inc.  
103 Elm Street  
Washington, MO 63090

**Contact Telephone/Email:**

Wes Theissen  
Phone: 636.239.4751  
Fax: 855.206.6246  
wtheissen@bfaeng.com



November 15, 2013

Mary Ann Jacobs  
MaryAnn.Jacobs@modot.mo.gov  
Intermediate Planning Technician  
MoDOT Central Office - Local Programs Administrator

**RE: Letter of Interest to provide Roadway Design Services for Missouri's Local Program**

Dear Ms. Jacobs,

We are excited for the opportunity to present our qualifications to provide roadway design services for Missouri's Local Program. We appreciate your consideration and believe our firm offers a great combination of talent, services, and value.

**General Experience of the Firm**

As required, BFA has provided (3) Company Reference Forms for evidence of our experience in providing Roadway Design services for municipal government and Local Agency projects. Some brief project examples are given below:

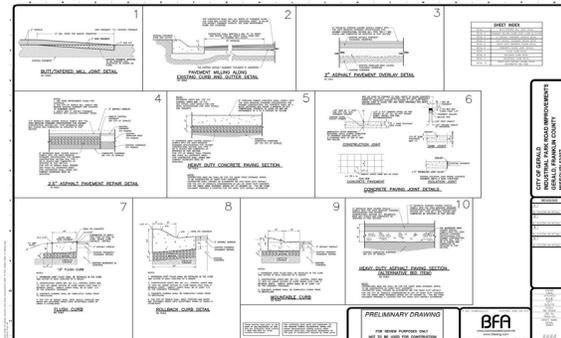
**1. BLOOMFIELD ROAD IMPROVEMENTS – CAPE GIRARDEAU, MO**

This is a 1-mile Roadway Improvement project in which a Special Road District-maintained rural road is being upgraded to City Design Standards. The preliminary design work included right-of-way and property research, topographic field work and surveying, sketch plans of design options, cost estimates, environmental reports, wetland delineation, and assistance with public meetings. Proposed improvements include concrete roadway with curb, gutter, storm sewer infrastructure, and adjacent 8' wide multi-use trail.



## 2. INDUSTRIAL DRIVE ROADWAY IMPROVEMENTS – GERALD, MO

A 1-mile section of Industrial Drive was repaired and repaved. Curb and gutter was added to a portion of this street in areas that didn't have them previously. BFA provided surveying, permitting, design plans, specifications, and construction inspection services for this project.



## 3. ROADWAY MAINTENANCE OVERLAYS (NOVA-CHIP) – WILDWOOD, MO

BFA assembled the project bid specification package, or Plans, Specifications, and Estimates (PS & E) for the City of Wildwood in order to overlay 10 miles of roadways within the city with the Nova-Chip product. The package included Project Specifications, Job Special Provisions (JSPs); overlay details, stationing overlay plan, quantity sheet, and engineers cost estimate for the City to take the project "Out to Bid".

### **Past Performance on Similar Projects**

BFA's Company Reference Forms for Roadway Design Services were all returned with ratings of "Above Average" or "Excellent". We attribute this to thoroughness and our philosophy of communicating early and often.

*"BFA, Inc. couldn't be easier to work with. They keep projects on track and are constantly addressing any issues that might arise during the course of work..."*

*-Casey Brunke, City Engineer – City of Cape Girardeau, MO*

*"We strongly recommend Buescher-Frankenberg Associates (BFA) to handle any of your engineering needs...excellent job on construction plans and inspection."*

*-Otis Schulte, Mayor – City of Gerald, MO*

*"Provided a very thorough and easy to read set of plans and specifications..."*

*-Ryan Thomas, Public Works Director – City of Wildwood, MO*

### **Qualifications of Personnel**

BFA's in-house staff is well-qualified and experienced for providing Roadway Design Services for federally-funded projects:

- ✓ BFA has been in business for **45** years.
- ✓ **Missouri Professional Engineers** (Raymond H Frankenberg, II – Missouri Engineer License #22537; Rick Rohlifing – Missouri #29409; John Nilges – Missouri #20013000609; Mark Harriman - Missouri #2000162109)
- ✓ **Missouri Professional Land Surveyors** (Raymond H Frankenberg II License #2366, Mark Frankenberg License #2365, Jason Pellin License #2000148665, Rick Rohlifing License #2005019216, Mike Meyer License #2589)
- ✓ **MoDOT LPA Basic Training Certifications** (Wes Theissen, James Qualicio, Kent Vedder, Tiffany Meyer).

- ✓ **Certified Floodplain Managers (CFM) – (Raymond H Frankenberg, II, Wes Theissen, John Nilges)**
- ✓ **Certified Professionals in Erosion and Sediment Control (CPESC) –** nationally recognized credential for compliant storm water management designs and construction site erosion control inspections (Ray Frankenberg, II – CPESC #3171; Rick Rohlfing - #3176; Mike Meyer - #2635; John Nilges - #6430; Wes Theissen - #6434)
- ✓ BFA continuously upgrades to the latest versions of AutoDesk Civil 3D, and our CAD Manager is AutoDesk Certified (James Quilacio).

### ***Familiarity and Capability***

BFA's staff routinely attends training workshops for keeping up to date on LPA project requirements, guidelines, and requirements. Our staff has also attending MoDOT and East-West Gateway training workshops covering STP project grant applications, Local Public Agency Construction (Workshop 3/28/2013), and the use of Professional Appraisers/Right of Way (with Bill Hampton).

BFA's LPA project experience covers all aspects of the project cycle, from grant application submittal to construction final close-out. BFA's experience and capabilities, particular to roadway design projects include:

- ✓ Engineering Services Contract preparation – including the use of DBE/MBE subcontractors and others (some on the MoDOT Pre-Qualification list and some not listed).
- ✓ Experience obtaining Section 106 Determination Letters
- ✓ Experience obtaining Corp of Engineers 404 (anationwide Permit) & 408 approvals
- ✓ Experience obtaining Missouri DNR Section 401 Water Quality Certification
- ✓ Experience obtaining Section 4(f) and 6(f) for Farmland and Parks impacts
- ✓ Experience obtaining Missouri DNR and local jurisdictional Land Disturbance Permits
- ✓ In-house survey department for topographic, boundary, and right-of-way surveys
- ✓ Hydrologic/Hydraulic modeling software for storm, drainage, and stream flow calculations
- ✓ Certified Floodplain Managers for obtaining floodplain development permits, flood map revisions, no-rise certifications, and elevation certificates

*“Based on my experiences with BFA, I would highly recommend their Engineering Design Services regarding Highway Improvements that may be associated with our project. **BFA has a proven ability to prepare Design Plans and coordinate all work and construction phases associated with the projects they work on.**”*

*-Judy Wagner, P.E., MoDOT Area Engineer*

*“MoDOT has closed out the Bieker Road Resurfacing project with no issues remaining to be resolved. I would like to thank BFA for making this project so successful. You and your staff were very attentive to the project and met with MoDOT several times to work out project details so that the project had minimal plan or bid proposal review comments and came in on schedule and within the budget. **This project was under an extremely accelerated project schedule and thanks to your firm’s professionalism and attention to quality and communication, the project was a success.**”*

*-Doug Canady, E.I.T., MoDOT District Design Liaison*

# BFA Capabilities Statement

## Missouri's Local Program Projects ROADWAY DESIGN

### COMPANY PROFILE (SMALL BUSINESS)

In business since 1968 (then Buescher Frankenberg Associates), BFA is a Civil Engineering Consulting firm with full capabilities in surveying (traditional and GPS), AutoCAD Civil 3D drafting, Civil Site Design (grading, utilities, parking, drainage, stormwater, and permitting). Professional Engineering licenses in 30 states – Professional Land Surveying Licenses in 8 states – Nationwide credentials for Certified Professionals in Erosion and Sediment Control (CPESC) and Certified Floodplain Managers (CFM).

### COMPLETE ROADWAY DESIGN ENGINEERING SERVICES

Our staff & relationships with expertise firms allows us to handle all types of Roadway Design Projects. BFA can provide:

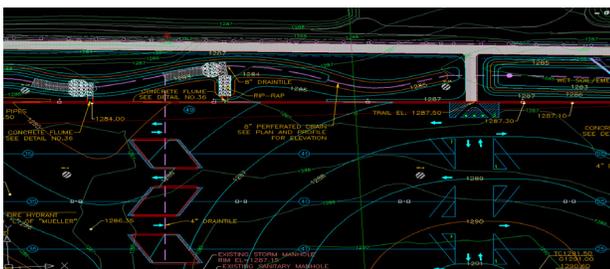
- ✓ Assistance with drafting and gaining approval of MoDOT's required Engineering Services Contract
- ✓ Coordination of Environmental and Geotechnical Investigations (sub-contracted)
- ✓ Full Surveying Capabilities (Traditional and GPS field equipment, AutoCAD Software, Licensed Surveyors)
- ✓ Legal Descriptions and Easements for obtaining Right of Way and other ownership issues
- ✓ Permitting and Approvals (MoDOT, US Army Corp of Engineers (Section 404 Nationwide Permits, Section 408 Approvals), Missouri DNR Section 401 Water Quality Certification, State Historic Preservation Office (SHPO) documentation, US Fish and Wildlife, Endangered Species, Floodplain Development Permits and "No-Rise" Certifications, Missouri DNR Land Disturbance, etc.)
- ✓ Traffic Reports and Intersection Design (can be sub-contracted at times)
- ✓ Erosion and Sediment Control Plans and Specifications

### LOCAL PROGRAM ROADWAY DESIGN QUALIFICATIONS/CREDENTIALS:

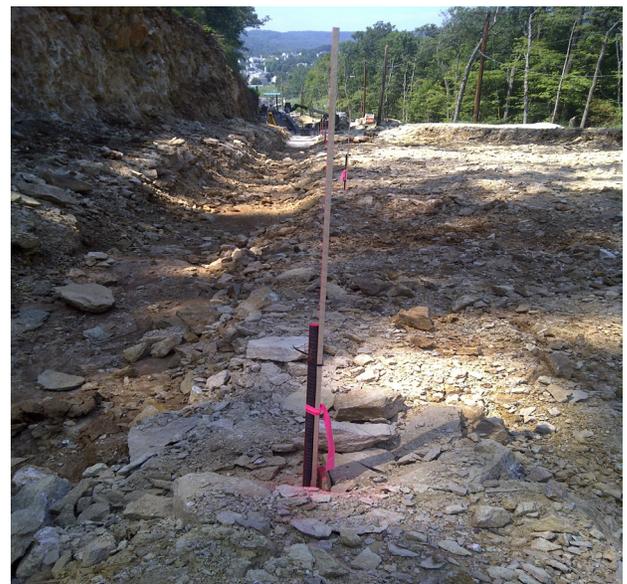
- ✓ MoDOT LPA Basic Training Certifications
- ✓ MoDOT Financial Pre-Qualification Listing
- ✓ Missouri Registered Professional Engineers (PE)
- ✓ Missouri Registered Professional Land Surveyors (PLS)
- ✓ Certified Floodplain Managers (CFM)
- ✓ Certified Professionals in Erosion and Sediment Control (CPESC)



Topographic Surveying



AutoDesk AutoCAD Software Suite



Construction Stake-out

## ROADWAY/STREET DESIGN

Nearly every project we work on involves design of a new street or modification of an existing street. Our strategic partnerships with Traffic Consultants and Geotechnical Engineers provide a single source for all the professional services our clients need for these projects. We often work with state Department of Transportation engineers and reviewers to obtain approvals for our projects.

- ✓ New Road Design
- ✓ Signalized Intersection
- ✓ Turn and other Lane Additions
- ✓ Overlay Projects
- ✓ Culverts and Bridges



# RECENT PROJECT EXAMPLES

## Bloomfield Road Improvements – Cape Girardeau MO

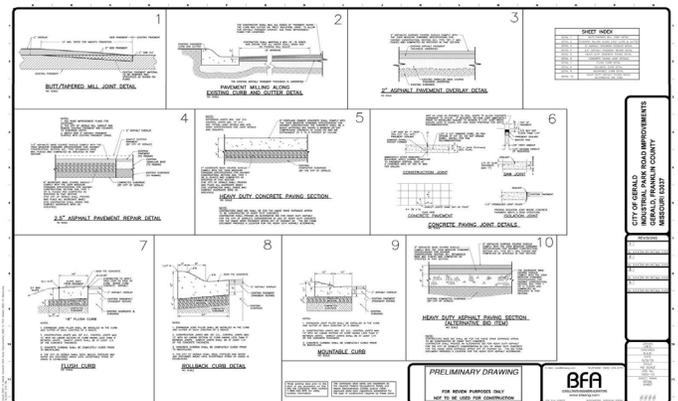
BFA has recently completed preliminary design for roadway improvements to Bloomfield Road in Cape Girardeau MO. The preliminary design work included right-of-way and property research, topographic field work and surveying, sketch plans of design options, cost estimates, environmental reports, wetland delineation, and assistance with public meetings. The project is now proceeding into final design. Proposed improvements include concrete roadway with curb, gutter, stormsewer infrastructure, and adjacent 8' wide multi-use trail.



# RECENT PROJECT EXAMPLES

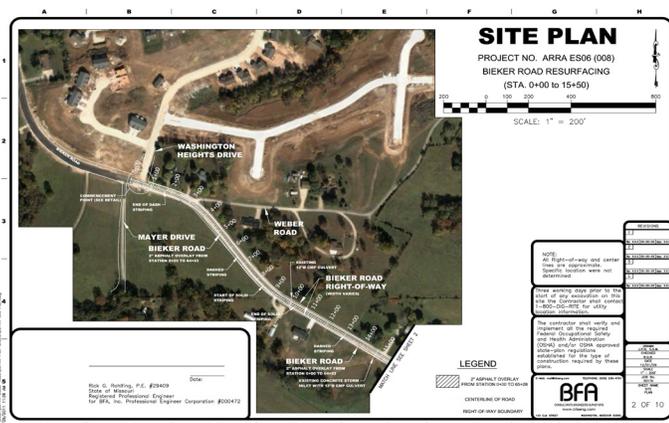
## Industrial Park Road – Gerald MO

The road pavement on Haase Drive and Industrial Drive in Gerald, MO were in a severe state of deterioration. These roads acted as the only access to the businesses and factories located in the Gerald Industrial Park. The Industrial Park employed over 300 people in 6 factories. There are approximately 77 acres of undeveloped industrial property along the road corridor and without repairs and overlays potential tenants would be reluctant to relocate there. BFA was able to assist the City of Gerald in acquiring a Community Development Block Grant (CDBG) through the Missouri Department of Economic Development. We also prepared project plans, specifications, and bid manuals as well as provided assistance to the community in reviewing contractor submittals and selection of the contractor. The projects improvements consisted of repairing areas of pavement having severe settlement, milling off 1" of existing surface pavement, and adding a 2" asphalt overlay. Curb and gutter was also added along both edges of the existing pavement surface. BFA also prepared all CDBG required project closeout documents.



## Bieker Road Improvements – Washington MO

BFA worked with the Washington Special Road District (WSRD) to prepare grant applications and exhibits to submit to the East-West Gateway Coordinating Council (EWGWC) for funding through the American Recovery and Reinvestment Act (ARRA). The ARRA application and accompanying documents submitted by BFA was one of only 75 projects approved out of the 398 applications submitted and was one of only 52 projects approved for Missouri through the EWGWC. This project consists of a 1.2 mile stretch of a two lane highway know as Bieker Road, which is located immediately south of the Washington, MO City Limits. The improvements along this route primarily include resurfacing and restriping of the highway along with storm water drainage infrastructure improvements to address runoff erosion to downstream property owners.

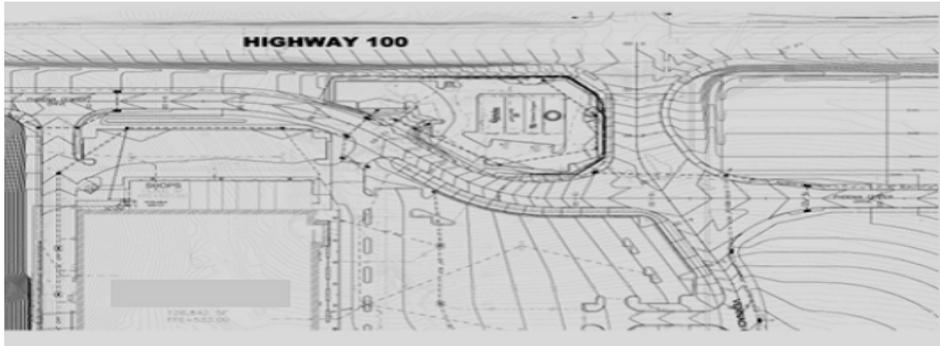


# RECENT PROJECT EXAMPLES

## Phoenix Center II – Washington MO

This is an ongoing project that includes over 4,200 LF of sidewalks and trails and approximately 6,700 LF of streets, curbing, gutters, and storm sewer infrastructure. BFA worked with the developer and City to have the property annexed and rezoned. We have prepared and provided all Surveys and Right-of-Way Property Transfer and Acquisition Exhibits. We also developed and submitted the required drainage calculations to obtain necessary floodplain development permits.

Through coordination efforts with the Missouri Department of Transportation (MoDOT), local municipality, and our traffic engineer, a five-lane section of highway fronting the development was constructed (previously a two-lane highway). Work involved existing route entrance shifts, a new signalized intersection, and a street extension to provide three accesses for the Phoenix Center II Development.



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