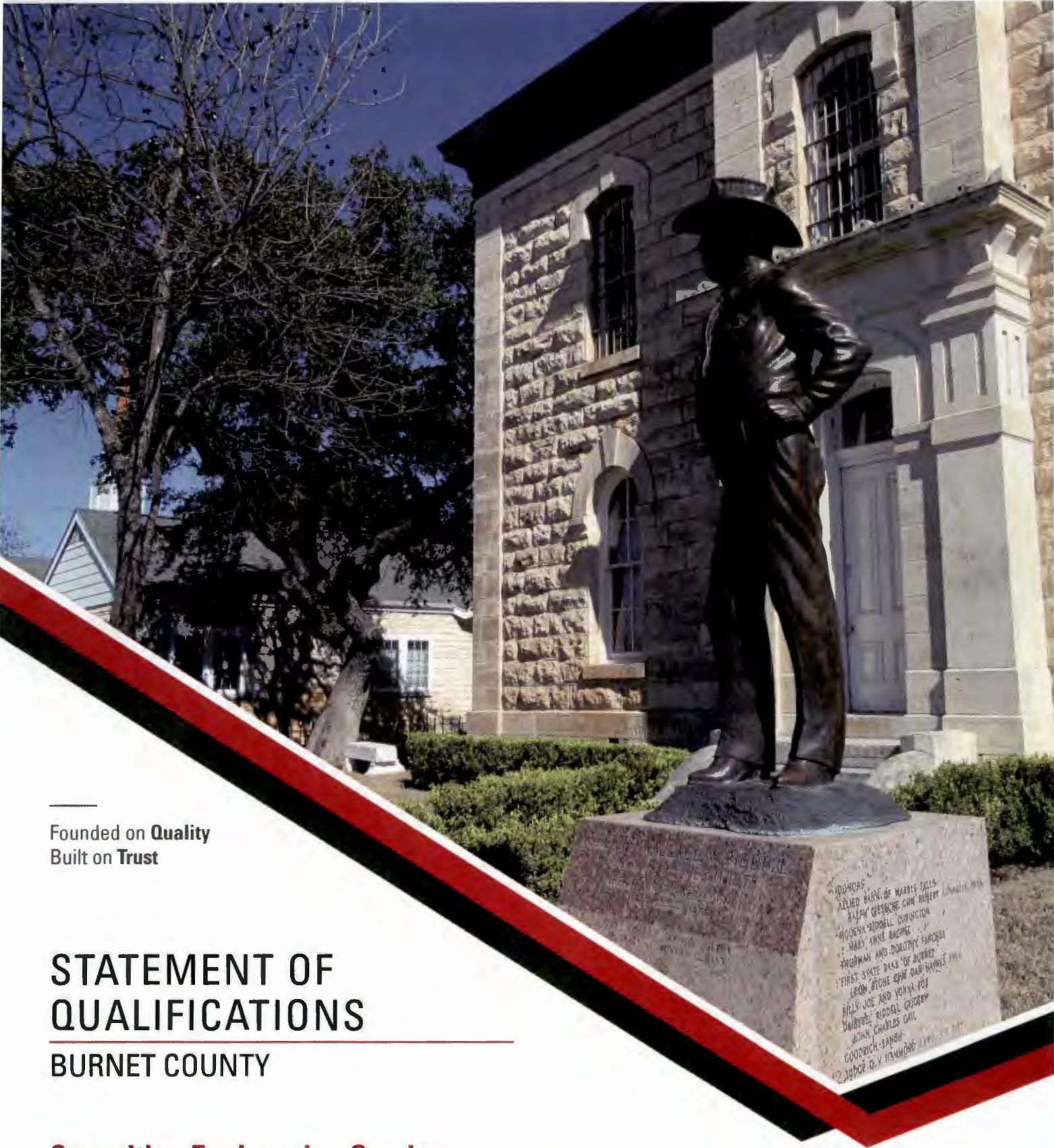




Founded on **Quality**
Built on **Trust**

STATEMENT OF QUALIFICATIONS

BURNET COUNTY

**Consulting Engineering Services
Planning and Design Engineering Services
RFQ #20-4090-02**

February 10, 2020



**Binkley
& Barfield**
consulting engineers



February 10, 2020

Burnet County
County Auditor/Purchasing Agent
133 East Jackson Street
Burnet, Texas 78611

**RE: Request for Qualifications for Consulting Engineering Services/Planning and Design Engineering Services
Solicitation Number: RFP # 20-4090-02**

Dear Selection Committee:

Within the beautiful hill country of Burnet County are treasures, challenges, and opportunities. Preserving and protecting Burnet County's natural resources and charm while preparing for growth requires extensive collaboration and a variety of expertise. Binkley & Barfield, Inc. (BBI) appreciates this opportunity to demonstrate the solid longevity and deep bench of staff skill sets we bring in helping communities improve roadways and infrastructure, seek funding and plan for growth, and evaluate input from citizens and businesses.

Brian Rice, PE, will serve as the Project Manager. Brian brings 29 years of experience delivering successful roadway and infrastructure planning, design, and construction services to Central Texas. His familiarity and awareness of community and environmental issues, combined with his roadway and traffic design experience, will bring value to projects for Burnet County.

Critical to the success of our service is the experience of team leaders we propose. Their roles and resumes are included in this proposal. As you will see, BBI brings a strong team of resources experienced in the design of public roadway projects, municipal infrastructure improvements, right-of-way and surveying services, and utility solutions. These key team leaders include:

- Brian Rice, PE – Project Manager
- Reed Meriwether, PE – Project Principal
- Greg Calkins, PE – Transportation Lead and Deputy Project Manager
- Alexis Woffenden, PE, CFM – Drainage Improvements and Planning Lead
- Steve Sherrill, PE, RPLS – Land Development Review and Planning Lead
- Kyle Cuplin, RPLS – Right-of-Way and Topographic Surveying Services

If selected for this contract, BBI's team will become a valuable extension of your staff. You will have direct access to a variety of expertise. We currently serve in a similar role for Buda, and our team has provided these roles for Cedar Park, Leander, Kyle, Hutto, and others throughout Central Texas. We have served as an extension of their staff with services ranging from roadway planning and design, drainage improvements, utility design, site plan development and review, park improvements, and general support. We welcome you to call our references included in this Statement of Qualifications to get an idea of the beneficial results we can provide to Burnet County.

Thank you for this opportunity to present our qualifications and our desire to serve as your consultant.

Sincerely,

Binkley & Barfield, Inc.
Consulting Engineers

A handwritten signature in blue ink that reads 'Brian D. Rice'.

Brian D. Rice, PE
Project Manager

A handwritten signature in blue ink that reads 'Reed Meriwether'.

Reed Meriwether, PE
Project Principal



CONSULTANT’S CAPABILITIES, EXPERIENCE, AND REFERENCES 1

PROJECT TEAM 9

METHOD OF APPROACH 14

UNDERSTANDING OF REQUESTED SERVICES AND LOCAL AREA 16



COUNTY ENGINEERING SUPPORT

- CIP Planning and Design
- Project Evaluation and Assessment
- Development Review
- Utility Coordination
- Construction Phase Support

ROADWAY DESIGN

- Rural/Urban Highways
- Residential Street Reconstruction
- Safety Improvements
- Streetscape Design
- Pedestrian and ADA Facilities

BRIDGE DESIGN

- Roadway and Railroad Bridges
- River and Creek Crossings
- Culvert Design
- Retaining Wall Design

TRAFFIC ENGINEERING

- Traffic Engineering Studies
- Traffic Signal Design
- Traffic Impact Analysis

DRAINAGE DESIGN

- Roadway Drainage
- Hydrologic Studies
- Floodplain Analysis
- LOMR and CLOMR Permits

DEVELOPMENT SERVICES

- Site Planning
- Commercial/Industrial Site
- Single/Multi-Family

RIGHT-OF-WAY (ROW) ACQUISITION SERVICES

- Route and Site Analysis
- Acquisition and Negotiations
- Relocation Services
- Litigation Support

SURVEYING

- Boundary Survey
- Topographic Survey
- Abstracting
- ROW Mapping

HISTORY OF THE FIRM

BBI is an employee-owned, multi-disciplined engineering consulting firm with headquarters in Houston and fully staffed regional offices in Round Rock, Austin, Richardson, San Antonio, Corpus Christi, and College Station. The firm has been established for 48 years and has over 265 employees. BBI has a focus on consulting services for county and municipal clients, regional and state surface transportation, public infrastructure, as well as land development, gas pipeline, telecommunications, and electrical distribution projects.

From municipal/county engineering to highway design, BBI offers the planning, feasibility studies, engineering design services, specifications, permitting, bidding, and construction phase services to see the job to completion. The same dedication extends to every market we serve, including water resources, utility design, surveying, and land development. Our Principals, Project Managers, and technical personnel work hand-in-hand with our clients to achieve goals in the best possible fashion. Our philosophy of customer-focused service brings a personal, efficient response to needs, resulting in innovative work of superb quality.

Primary Contact and Office Location

BBI's primary point of contact will be our proposed Project Manager, Brian Rice, PE. Brian has been serving Central Texas municipalities, counties, and agencies for 29 years, designing and managing numerous civil engineering projects throughout the region. His local familiarity and awareness of community, environmental, and political issues, combined with his roadway design experience, provide his team and BBI's clients a real benefit in the delivery of their projects. Brian is duly authorized to negotiate and enter into contract agreements with the County on behalf of BBI.

His contact information is as follows:

Brian Rice, PE
 Project Manager
 2401 Double Creek Drive, Suite 200
 Round Rock, Texas 78664
 Office: 512.292.0006
 Mobile: 512.656.4667
 Email: brice@binkleybarfield.com

Firm Service and Values

BBI's local and statewide team members bring a depth and breadth of services to support Burnet County. A brief list of the types of services we deliver our clients is on the left. The experience we have gained working with communities similar to Burnet County will provide immediate and significant value.

For example, BBI serves as an extension of the City of Buda's planning and engineering staff. We provide review of development projects, review of Capital Improvement Plan (CIP) projects carried out by other consultants, and perform water/wastewater system capacity evaluations. We also provide design for projects that include roadways, traffic improvements, water and wastewater facilities, drainage, Federal Emergency Management Agency's (FEMA's) Letter of Map Revision (LOMR) and Conditional Letter of Map Revision (CLOMR), traffic, and CIP development support. We are, in essence, available to do whatever Burnet County needs us to do.

The key to BBI's ability to deliver our wide-ranging expertise is based on our leader's tenets - **Founded on Quality, Built on Trust**. These core principles go into everything we do from hiring employees to performing engineering designs to meeting with clients and the public about projects. Since our founding in 1972, our leaders and employees have believed and demonstrated that honesty, integrity, and quality are the keys to success for our firm, our employees, and our clients.

SECTION 1

Consultant's Capabilities, Experience, and References

EXPERIENCE

In this section, we provide a sample of the types of projects BBI has performed for our clients in Central Texas. BBI has a vast resume of experience, and demonstrating the full breadth of our abilities is difficult. We have provided select examples in the disciplines we expect will be needed most: general engineering and planning services, transportation, and drainage planning and design. These are our example projects as well as our professional references.

CITY ENGINEERING SERVICES

CITY OF BUDA | BUDA, TEXAS



REFERENCE

John Nett, PE
City Engineer
405 East Loop Street
Buda, Texas 78610
512.312.2876
jnett@ci.buda.tx.us

For the past 4 years, BBI has provided indefinite delivery, indefinite quantity (IDIQ) city engineering support to the City of Buda. We act as an extension of the engineering and planning staff and provide design services for roadways, sidewalks, water lines, pump stations, wastewater lines, and lift stations. We provide planning and engineering design for public infrastructure projects and developing and updating the annual CIP. BBI's role in supporting development reviews entails detailed reviews of commercial site plans and subdivision plats, water quality and detention facilities, drainage analysis, and water and wastewater capacity assessment for developments. We provide plan review to include public facility and other utility projects in the city's jurisdiction. We also perform the evaluation of traffic impact analyses (TIA), conduct preconstruction conferences, attend predevelopment meetings, and follow projects through to final acceptance. Project examples include:

Land Development Review – BBI's services included concept review and planning with developers and their engineers, review of preliminary plats, site development plans, and subdivision plans. We also review drainage reports and plans, TIA, and water and wastewater service requirements for new developments. BBI has reviewed over 300 development projects ranging from small site improvements to large acreage subdivisions with over 1,100 lots.

CIP and Roadway Planning – BBI supports the City of Buda with the development of roadway and traffic projects. For example, BBI prepared planning schematics and detailed cost estimates for numerous roadways including Old Black Colony Road reconstruction, Main Street widening and intersection improvements, and the Sequoyah Street traffic signal and warrant projects. BBI developed these for inclusion in the City's budget and project scope.

Interstate Drive Culvert Replacement – BBI performed the investigation, planning, coordination with FEMA, and fast-track design of a critical roadway crossing culvert that provides access from FM 967 to the IH 35 Frontage Road. The existing crossing with three 36-inch corrugated metal pipe (CMP) culverts was undersized, causing upstream flooding and overtopping of the roadways, which caused the existing culverts to fail and the subgrade to erode beneath the pavement.

Bradfield Park Drainage Improvements – The 31-acre park is a watershed management area for the Onion Creek Tributary 2, a 576-acre watershed with a 100-year flow of 2,400 cubic feet per second (CFS). BBI evaluated various options to determine a solution that would allow passage for pedestrians in the park. BBI performed drainage study and design, sidewalk design, value engineering, construction inspection, cost estimation, and structural engineering design.

Downtown Parking/Traffic Evaluation – BBI performed a parking and traffic circulation evaluation to develop alternatives for traffic patterns and on-street parking for the streets connecting with Main Street (primary downtown corridor). The assessment considered the economic activity of merchants, pedestrian comfort, access and crossings, one- and two-way traffic, circulation due to traffic generators such as schools, as well as cost impacts.

GENERAL ENGINEERING SERVICES

CITY OF HUTTO | HUTTO, TEXAS

**REFERENCE**

Anthony Host
Project Manager
210 US 79 East, Suite 103
Hutto, Texas 78634
512.759.4032
anthony.host@huttotx.gov

BBI was contracted by the City of Hutto to provide general engineering support services. BBI team members provided services including predevelopment meetings, plat review, public improvement construction plans review, and review of site development plans for compliance with city codes and planning documents. BBI's team also provided review and management of public infrastructure projects ranging from downtown streets and water projects to the development of projects to be evaluated and placed on the city's 2017 Bond Election referendum.

HAMILTON POOL ROAD

TRAVIS COUNTY | TRAVIS COUNTY, TEXAS

**REFERENCE**

Chiddi N'Jie
Project Manager
700 Lavaca Street
Austin, Texas 78767
512.854.7585
chiddi.n'jie@co.travis.tx.us

The Hamilton Pool Road project consisted of two 11-foot lanes without shoulders and ran west from FM 71 to beyond the Pedernales River into Hays County. BBI provided the design for 6.5 miles of roadway, including the initial identification of more than 24 safety-related improvement locations. The safety improvements consisted of 6-foot shoulders for the length of the roadway and reconstruction curves to improve sight distance and speed. BBI made strategic horizontal and vertical road alignments that significantly minimized utility relocations. BBI addressed project challenges such as left- and right-turn lanes, sight distances, cross-culverts without guardrails, and clear zone distance to obstruction. Other design elements included drainage, storm sewers, water quality pond improvements, a retaining wall, and the replacement and widening of the bridge over Hamilton Creek. BBI communicated with property and business owners, residents, park visitors, and bicyclists via e-mail, newsletters, and other media, keeping them informed of the project progress and milestones, and pending construction zones.



I have known Mr. Rice for the past 18 years and have had the pleasure of hiring him for several different projects. The quality of work and his expertise has always been top notch. I have always felt like the cities I have worked for have been well represented by Mr. Rice and I would trust him to manage any day-to-day engineering work we need completed. Please feel free to contact me with any questions. Thank you.

Shannon Mattingly - Director of Planning and Development Services
City of San Marcos

FM 110 SOUTH

HAYS COUNTY | HAYS COUNTY, TEXAS

**REFERENCE**

Jerry Borcharding, PE
 Transportation Director
 2171 Yarrington Road
 San Marcos, Texas 78666
 512.939.7385
 Phone
jerry@co.hays.tx.us

The FM 110 South project is a 2.5-mile new location facility that runs from SH 123 to FM 621. BBI prepared preliminary schematics, and final plans, specifications, and estimate (PS&E) for an ultimate four-lane divided urban section and an interim two-lane rural section. Numerous challenges were encountered, including ROW and reservoir inundation easement acquisition, extensive drainage design, construction in clay soils with high plasticity, minimizing throw-away pavement at interim ramp locations, and coordinating with the SH 123 overpass project to the south and the FM 110 middle project to the north. The project required comprehensive coordination to align the short- and long-term transportation master plans of TxDOT, Hays County, and San Marcos. As a result of BBI's refinement of the original TxDOT schematic, BBI was able to reduce the size of the bridge over Cottonwood Creek from 1,900 linear feet to 1,300 linear feet, reduce the shoulder widths on the bridge structures, and reduce median widths throughout the project. This led to reduced retaining wall lengths, minimized proposed ROW, and contributed to an overall project savings of \$1.4 million.

ANDERSON MILL ROAD

CITY OF CEDAR PARK | CEDAR PARK, TEXAS

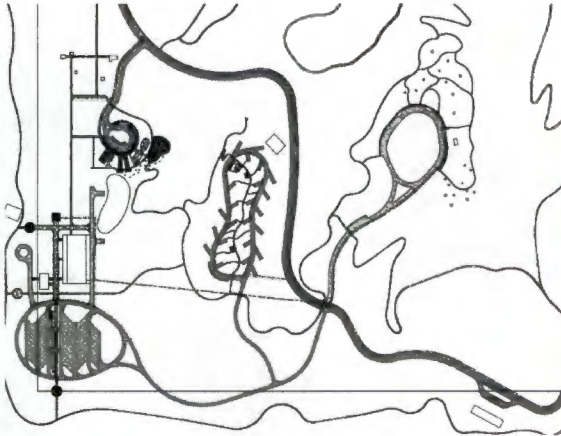
**REFERENCE**

Alan Green
 Project Manager
 450 Cypress Creek
 Road, Building 1
 Cedar Park, Texas 78613
 512.401.5352
alan.green@cedarparktexas.gov

Anderson Mill Road was a narrow two-lane road with sharp curves adjacent to a deep quarry. It is a major arterial with high-traffic volumes because of nearby schools, businesses, neighborhood traffic, and construction vehicles going to and from the quarry. BBI was selected to provide alternative alignments analyses and the ultimate design of the roadway improvements. The project included additional lanes, roadway alignment adjustments for improved safety, pedestrian and sidewalk improvements, storm drain, water quality and detention ponds, new wastewater trunk lines, water main adjustments, traffic signal replacements, street lighting, and relocation of overhead power and underground telephone duct banks. The design was highly challenging due to constraints caused by the Balcones Canyonland, Discovery Well, and Buttercup environmental preserves along both sides of the road. This required extensive analysis of drainage options to develop the preferred detention and water quality designs. Highly sensitive ecological areas such as karst formations and endangered species habitats required significant planning and evaluation of alternatives to minimize adverse impact. These environmental constraints required minimal depth excavations and several small detention and water quality facilities along the roadway instead of larger, deeper ponds.

RIVER RANCH

WILLIAMSON COUNTY | WILLIAMSON COUNTY, TEXAS

**REFERENCE**

Randy Bell
Sr. Director (Retired)
Williamson County Parks
& Recreation Department
219 Perry Mayfield Boulevard
Leander, Texas 78641
512.943.1922
randybell@wilco.org

River Ranch County Park, to be located between Leander and Liberty Hill with entrances off CR 282 and Bagdad Road, is expected to be on par in quality with some state parks such as Pedernales Falls, Lost Maples, and Bastrop state parks.

BBI provided design planning and review services for a new 1,000-acre park for Williamson County called River Ranch County Park, located along the banks of the South Fork of the San Gabriel River. A portion of the park is within the City of Liberty Hill Extraterritorial Jurisdiction (ETJ), and the entire site lies over the Edwards Aquifer Contributing Zone. BBI was responsible for all civil engineering design, including water and wastewater to all facilities, drainage, roadways, parking lots, site grading, water quality, detention, City permitting, County permitting, and Texas Commission on Environmental Quality (TCEQ) permitting. BBI worked with the prime firm, Design Workshop, client, and project team to develop a comprehensive park plan that preserves the passive nature of the park while providing services to a wide variety of park visitors. The park design includes a gatehouse, cabins, RV camping area, equestrian center, heritage center, pedestrian trails, equestrian trails, and numerous camping sites.

INTERNAL PROCEDURES FOR WORK QUALITY AND COST CONTROL

BBI has an established Quality Assurance Program (QAP) as part of our design process. The QAP is staffed by a project quality team which consists of experienced professionals who provide independent review of any design work. The QAP can be modified to meet the needs of individual projects, and includes:

- Regularly scheduled in house QA/QC reviews at 30%, 60%, and 90% stages
- Regular reviews and communication with Burnet County to meet your needs and expectations
- Weekly in-house project updates and peer review on the project
- Established checklists for key design elements, conceptual elements, and standard elements of the design
- Constructability reviews by experienced construction personnel to determine the feasibility of the design for construction
- Regular contact with the construction industry to stay on top of the current construction bidding climate and how it may impact bids and construction budget

On every project, we bring any "lessons learned" from previous design and construction projects and apply them to the current design. Doing so streamlines the design process and increases the quality of our work. Other elements of our QAP include scheduling, assigning, documenting, and recording all work.

BBI's QAP is simple, effective, and color-coded to provide a record of who, what, and when; *who* made the comments and corrections, *what* was done or approved, and *when* the process took place. Our QAP also provides accountability, showing the design and review processes were performed in accordance with accepted engineering practices and conformed to contractual requirements.

Our mandate as licensed professional engineers is to first and foremost protect the health, safety, and welfare of the general public. At BBI, we take this charge very seriously and believe the firm will not continue to succeed without consistently achieving excellence in our work products. We are committed to doing everything within our control to eliminate errors and minimize risk associated with our engineering endeavors. We believe that quality control is not

merely a step in the process, but rather integrated into every aspect of a project.

COST CONTROL

BBI follows the recommended practices of the American Association of Cost Engineering (AACE) and numerous other resources for definition of project costs. Our selection of tools include vendor references, RS Means (a construction estimating database), Texas Department of Transportation (TxDOT) Basis of Estimate and Historical Unit Costs, American Water Works Association Cost Estimating Manual for Treatment Facilities and reference guides, various American Society of Civil Engineers cost estimating guidelines, county bid tabulations, and most importantly, internal completed bid databases from past projects.

The decision or selection of an individual reference guide varies on a project-by-project basis and is driven by the project elements. It has been our experience the most accurate bid analysis and probable estimates of construction cost have been derived from past bid results that have been updated to current dollars, usually following a standard industry index such as the Engineering News Records (ENR) Construction Cost Index (CCI). The ENR provides detailed indexes for separate components such as material or labor.

The current labor market is tight and considered a contractor's market. This means unit prices have been on the increase. Key issues affecting contractor pricing include:

- Number of concurrent area bids
- Fluctuating material prices
- Fuel costs
- Lack of skilled area labor
- Burdensome regulations
- Prescribed labor rates (driven by the Davis-Bacon act)
- Tight schedules and liquidated damage penalties
- Past relationships

Analysis of several local and regional bids within the past year have shown local contractors are having difficulty hiring and keeping a skilled workforce. As a result, local bid prices have been above the norm when compared with the national average price increases. BBI will factor this into the conceptual/study level reports to anticipate the

market conditions and avoid "shelving" projects post-design because of lack of funding.

We design our projects and refine those designs to meet our client's budgets. We do this by developing cost estimates using current unit costs with each phase of our designs. If the estimated project costs exceed the budget, we work with the client to reduce project scope or phase the project to include improvements (such as shoulder widths, turn lanes, etc.) for future funding while still achieving the safety goals and requirements for the projects.

BBI has a strong background in developing accurate cost estimates. We understand the current climate of local construction, as demonstrated in *Table 1* below that shows our last four local let project bids.

VALUE ENGINEERING

We are strong believers in value engineering (VE) at all stages of a project. VE is often confused with cost cutting due to budget overruns. At BBI, we believe VE is the process of studying scope, materials, means, and methods at every stage of a project to ensure the most cost-efficient solutions are implemented. We utilize VE processes as follows:

Schematic Design – We are extremely conscientious about ensuring the project size is not increased unnecessarily. We monitor requests so that we do not experience increases in program size, commonly known as "scope creep."

Design Development – We review construction methods and material selections to offer options for reducing initial costs without sacrificing long term quality. During this project phase, our team works with the client to review the concept and refine program needs.

Construction Documents – BBI researches new materials, construction methodologies, and manufacturers to confirm the latest technologies comply with the client's standards and specifications (at a lower cost, if possible). We meet with the client's staff and local, trusted contractors to discuss their input into our designs. This ensures we are considering the local area's constraints such as materials, work environments (soils or rock hardness issues), labor availability, and skills challenges. We also provide quantity

Table 1: Comparison of Estimate Versus Winning Bids

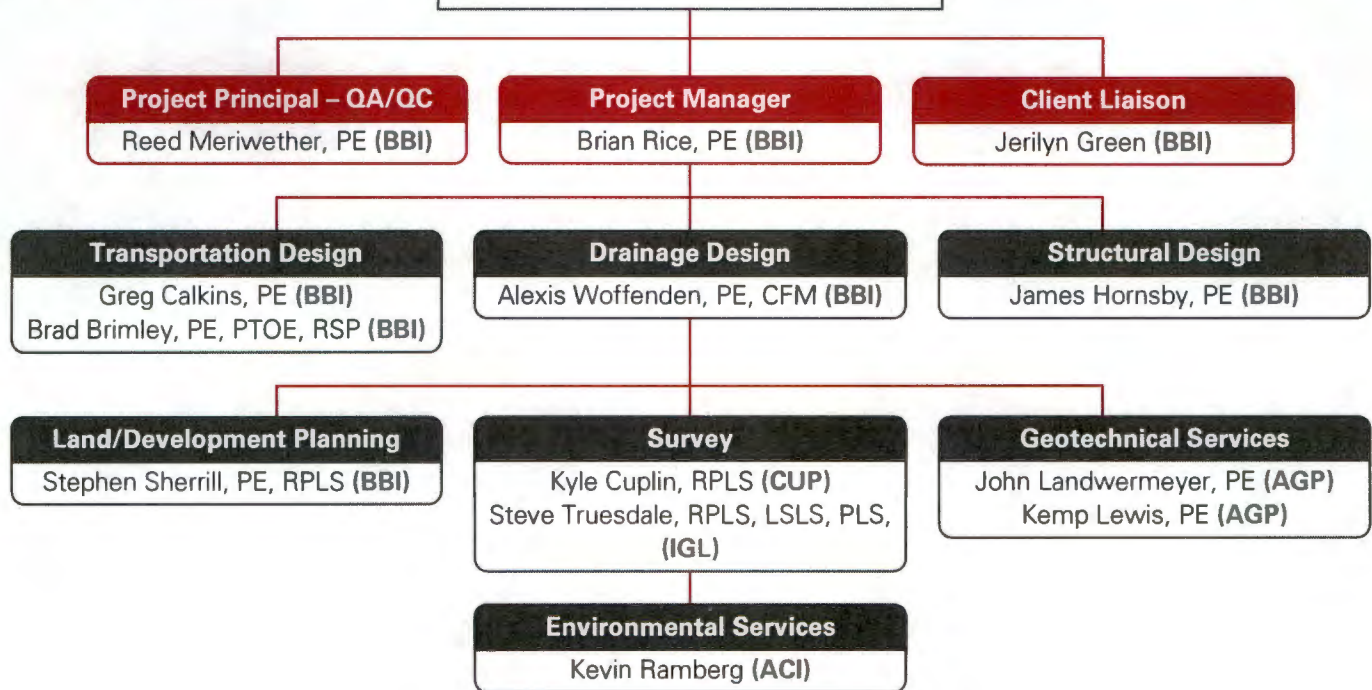
Project	BBI Estimate	Low Bid	Variance
Hamilton Pool Road	\$2,836,000	\$2,782,642	-1.88%
FM 110	\$16,636,056	\$16,235,482	-2.41%
Ronald Reagan Bridge	\$15,646,511	\$15,048,229	-3.82%
IH 35 Frontage Road Conversion	\$14,305,403	\$13,145,762	-8.11%

takeoffs and types of material to meet the program requirements. This practice also aids in material cost control.

Construction Administration – Contractors and subcontractors are excellent sources of new ideas,

products, means, and methods. VE continues during construction as BBI works with the contractors to identify opportunities and make changes (with approval) to reduce costs.

Burnet County



Firm Key

ACI - aci consulting, LLC
 AGP - Arias Geoprosessionals
 BBI - Binkley & Barfield, Inc.
 CUP - Cuplin & Associates, Inc.
 IGL - Inland Geodetics, LLC

CAPABILITY

BBI is a local engineering firm with experience that offers the support and resources of over 265 additional staff firm wide. Our structure and service mindset give BBI ability to provide responsive and focused support to our clients while delivering the resources of a large firm when needed.

BBI's management approach ensures that each client and project have multiple levels of team members that our clients can communicate with and be served by. This provides our clients the ability to always have responsive service.

For this project, Brian Rice, PE will serve as the Project Manager, and Greg Calkins, PE, as the Deputy Project Manager and Roadway Task Leader. As such, Burnet County will have a secondary point of contact, should Brian not be available.

As we have done with numerous clients, once you are more familiar with our team, you will become comfortable in communicating with the Task Leader of each service discipline. You will be able to communicate directly with them and then our Task Leaders and Project Manager will communicate with each other to maintain and improve our service to Burnet County.

We are proud of the relationships developed with numerous repeat clients which enables them to call upon BBI for assistance in their day-to-day operations. BBI has built its practice on delivering excellent service to clients. We manage project schedules effectively to provide the service our clients need when they need it. Brian Rice, PE, will personally commit that the appropriate company resources are allocated to the project and the design schedule is met.

“ *It is with great sincerity that I can say that I have thoroughly enjoyed the professional relationship I have had with Brian Rice over the many years I have known him and have nothing but the highest regard for the professionalism and quality of the engineering services he has provided to the City of Cedar Park.*

Sam P. Roberts, PE - Assistant City Manager
City of Cedar Park

SECTION 2

Project Team

PRINCIPAL INVOLVEMENT

BBI's key team members are provided in the Organizational Chart shown on page 7. The following provides an understanding of the roles and brief resumes of our proposed team members.

BBI organizes our teams to define the Project Manager as the primary interface with the client. Our Project Managers report to a Project Principal, who is responsible for ensuring Project Managers are providing the service needed by the client. BBI's Project Principal for the Burnet County contract will be **Reed Meriwether, PE**.

As the Project Principal, Reed will:

- Reach out to Burnet County leaders for input on our performance, responsiveness, and satisfaction with deliverables
- Exercise executive oversight of the project and quality control
- Provide technical expertise for project design and construction
- Reassign team members to other relevant county tasks, if needed
- Assign additional expertise and resources to the project, if necessary

KEY STAFF

BRIAN RICE, PE *Project Manager*

Brian brings 29 years of experience providing roadway, utilities, and development engineering services throughout Central Texas. Brian will take a hands-on approach and work with Burnet County's personnel for the overall direction of each project. He will initiate and negotiate all contracts, produce the overall schedule, and coordinate and attend milestone meetings.

Brian will be the continuous, central point of supervision throughout the contract duration. However, as with most of our general engineering services contracts, Burnet County will begin to work with BBI's Task Leads directly as our relationships develop. Brian will work with Burnet County staff to produce program information, design development, schematic design, and contract documents. He will verify that project documents are completed in accordance with the owner's requirements and design specifications.

In addition, as the Project Manager, Brian has been involved with projects by providing services such as:

- Ensuring appropriate staff resources are available to perform the design and meet project deadlines

- Providing design alternatives review and advice based on his experience gained on similar projects
- Reviewing the design and its compliance with construction and quality standards
- Providing frequent updates on the projects
- Providing input on Requests for Information (RFIs), submittals, and construction phase questions that arise during the project construction

GREG CALKINS, PE

Transportation Lead and Deputy Project Manager

Greg will provide leadership in the evaluation and design of roadway and traffic related projects. He has 13 years of civil engineering experience, brings a strong roadway skill set, and has worked with Central Texas counties on many occasions. His experience includes schematic development, complex roadway design, multiphase traffic control plans (TCPs), preparation of plans and specifications, cost estimating, and bid and construction phase services. His projects have ranged from local street and intersection improvements to major freeway and toll road facilities. Greg will also serve as the Deputy Project Manager. As such, he will be an additional resource to Burnet County in times when Brian may not be immediately available.

ALEXIS WOFFENDEN, PE, CFM

Drainage Lead

Alexis will lead drainage evaluations, studies, and design projects for Burnet County. Alexis brings over 12 years of experience in the consulting civil engineering industry. She is experienced in handling multidisciplinary projects involving site development, water resource protection, flood mitigation, water quality facility design, and traffic/utility study and improvement design. She has performed extensive hydrologic and hydraulic (H&H) modeling, analyses, and studies for numerous watersheds in Central Texas.

STEPHEN SHERRILL, PE, RPLS

Land Development Review and Planning

Stephen brings extensive experience in the planning and construction of development projects. We propose Stephen as the Task Lead to support Burnet County with reviewing projects for compliance with design requirements, supporting Burnet County with field issues within developments under construction, or working with Burnet County to negotiate developer agreements for incentives or cost-sharing improvements. Stephen's previous experience as the Director of Acquisition and Development for the Texas Division of a private real estate developer make him an asset to clients and BBI.

PERSONNEL QUALIFICATIONS

In addition to BBI's resources, our team includes the expertise of surveyors, geotechnical, and environmental firms that bring experience from Burnet County and throughout Central Texas. We are collaborating with Burnet County firm, Cuplin & Associates, for surveying. To meet the requirements of Burnet County's goal and commitment to achieving a 12.6% Disadvantaged Business Enterprise (DBE), we have three additional firms available that BBI has worked with for years.

Below is a brief description of our subconsultants:



Cuplin & Associates Land Surveyors and Planners, Inc. (CUP) is one of the premier land surveying and planning companies in Texas and has been since March of 2007.

After having successfully completed countless jobs during their 13 years in business, CUP has continued to provide cutting edge technology, quality products, and timely services at a reasonable cost to a wide variety of clients in the state of Texas. CUP's clients cover the spectrum from banks to ranchers to governmental bodies.

aci consulting (ACI) will provide environmental engineering support for the contract. As a DBE/MBE certified firm, ACI's multidisciplinary team of professional biologists, archaeologists, geologists, environmental scientists, and planners will provide the expertise needed to help Burnet County make informed decisions.



Arias Geoprotectionals (AGP) will provide geotechnical engineering services for the project. With more than 40 years of engineering experience, AGP has provided geotechnical engineering services throughout the Central Texas region. As a certified DBE firm, AGP has an established in-house laboratory that meets the standards of the

American Standard Testing Materials (ASTM) specifications of ASTM E-329 for inspection and testing agencies and is accredited by the American Association of State Highway and Transportation Officials (AASHTO), the United States Army Corps of Engineers (USACE), and TxDOT.

Inland Geodetics, LLC (IGL) is a full-service professional firm providing land surveying services for nearly 20 years (since July 2000). IGL is a DBE/WBE/HUB firm certified with TxDOT. The Inland team has successfully managed and completed numerous public sector projects. These experiences include land surveying tasks on projects of all sizes for TxDOT, local municipalities, counties, and quasi-governmental agencies. Some past projects were the FM 2900 bridge replacement where IGL provided Licensed State Land Surveyor (LSLS) consulting on the

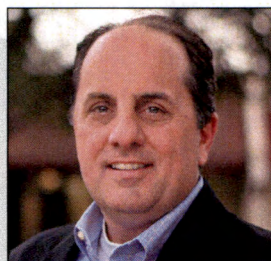


river crossing permits, Buchanan Dam Water Tank, and SH 29 between Bertram and Liberty Hill.

“ *Part of our appreciation of Binkley & Barfield's relationship with Buda comes from their responsiveness, regardless of the complexity of the request. Whether it is review of a development proposal or complex wastewater model analysis and design of needed capital improvements, the Binkley & Barfield team always responds promptly. They are quick to ask smart questions early in design, resulting in a “get it right the first time” design approach.*

Chance Sparks
President, American Planning Association - Texas Chapter
Former Assistant City Manager
City of Buda

PROJECT MANAGER EXPERIENCE

BRIAN RICE, PE
 PROJECT MANAGER
**FIRM**

Binkley & Barfield, Inc.

EXPERIENCE

29 Years

EDUCATIONBachelor of Science, Civil
Engineering - Texas A&M University**REGISTRATIONS**Professional Engineer, Texas
No. 89442**TXDOT PRECERTIFICATIONS**1.2.1, 1.3.1, 1.4.1, 2.5.1, 3.2.1, 4.2.1,
7.1.1, 8.1.1, 8.3.1, 8.6.1, 18.2.1**BACKGROUND**

Brian possesses a wide array of expertise including engineering and construction of roadways, water and wastewater facilities, and infrastructure planning for municipal and county entities. With a strong background in working with clients in emerging growth areas, Brian provides varying levels of leadership, support, and review on projects, depending on the type of project and its unique aspects. His knowledge of construction in difficult working conditions, such as limited ROW, construction phasing, and congested utilities, as well as his experience on projects with accelerated schedules and/or challenging public issues, provides great value to clients.

CITY ENGINEERING SERVICES

CITY OF BUDA | BUDA, TEXAS

Brian serves as the Sr. Engineer and Project Manager for the Engineering and Planning staff to support a wide range of needs during the City of Buda's explosive growth. Brian provides planning, engineering, and operations support to the City of Buda on a variety of projects. Services include development plan review for commercial, industrial, and single family projects; planning and engineering for roadway, traffic, water and wastewater projects; development of cost estimates; prioritizing capital improvements; review of public infrastructure designs performed by other consultants; and general consulting and advice.

CITY ENGINEERING SERVICES

CITY OF HUTTO | HUTTO, TEXAS

Brian served as the Sr. Engineer and Project Principal for the City of Hutto to provide general engineering support services. Brian supported the BBI team to provide services which included predevelopment meetings, plat review, public improvement construction plans review, and review of site development plans for compliance with city codes and planning documents. BBI's team also provided review and management of public infrastructure projects ranging from downtown streets and water projects to the development of projects to be evaluated and placed on the city's 2017 Bond Election referendum.

KOHLER'S CROSSING IMPROVEMENT

CITY OF KYLE | KYLE, TEXAS

Brian served as Project Manager for the design of 2.2 miles of an existing two-lane rural section being upgraded to a four-lane urban section. A critical component of the project was coordination with the Union Pacific Railroad (UPRR) in the design of the railroad crossing. Brian and his team worked closely with UPRR to coordinate the limits of design and construction of the new crossing as a quiet zone crossing.

REGIONAL TRANSPORTATION PLAN

COMAL AND GUADALUPE COUNTIES | NEW BRAUNFELS, TEXAS

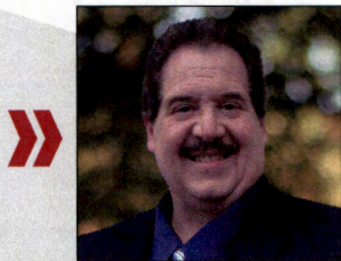
Brian served as the Sr. Engineer and Project Manager for the development of the multimodal regional transportation plan for New Braunfels, Seguin, Comal County, and Guadalupe County. The goal of the project was to coordinate and develop the recommendations from adopted municipal plans and to become familiar with the requirements of a regional planning process to evaluate the option to develop the region as a stand-alone metropolitan planning organization (MPO).

ANDERSON MILL ROAD

CITY OF CEDAR PARK | CEDAR PARK, TEXAS

Brian served as the Sr. Engineer and Project Manager for the schematic, final design, and construction phase services to widen 1.4 miles of Anderson Mill Road from Lime Creek Road to FM 1431. This segment increased the existing two-lane roadway to a four-lane with right- and left-turn lanes to accommodate the existing quarry facility and new developments. The segment was highly challenging due to constraints caused by environmental preserves on either side of the road and the significance of karst features throughout the region.

**REED
MERIWETHER, PE**
PROJECT PRINCIPAL/QA QC



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
31 Years

EDUCATION
Bachelor of Science, Civil
Engineering - Lamar University

REGISTRATIONS
Professional Engineer, Texas
No. 82027

BACKGROUND
As Managing Director of Infrastructure, Reed brings both senior project management and design expertise in water, wastewater, reuse water, and stormwater conveyance and treatment to the BBI team. Reed has 31 years of comprehensive engineering, project management and construction management experience in the water, wastewater, and stormwater fields. He possesses a wealth of technical knowledge and expertise demonstrating innovative and cost-effective solutions, strong client relationships, and proven project budget, schedule, and quality control. His project experience includes:

- Buda General Engineering Services - Buda, Texas
- Williamson County Road Bond Projects - Williamson County, Texas
- CR 266 and FM 621 Utility Coordination - Hays County, Texas
- Water Treatment Plant No. 4 Selection - Austin, Texas
- East Water Transmission Main - Round Rock, Texas
- Engineering Feasibility Study - Williamson County, Texas
- Water System Improvement - Killeen, Texas

**GREG
CALKINS, PE**
TRANSPORTATION LEAD



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
13 Years

EDUCATION
Bachelor of Science, Civil Engineering
- University of Texas at Austin

REGISTRATIONS
Professional Engineer, Texas
No. 111309

BACKGROUND
Greg has 13 years of engineering experience in the design, management, and coordination of highway and urban roadway design projects for various clients within the public sector. Greg brings exceptional experience in the development of roadway schematics within limited ROW and areas congested with ground and overhead utilities. His experience ranges from local street and intersection improvements to major freeway and toll roads, bringing valuable expertise and knowledge to his projects and clients. His project experience includes:

- Bell Boulevard Corridor Improvements - Cedar Park, Texas
- Capital Improvements Plan, Roadway Projects - Buda, Texas
- Anderson Mill Road - Cedar Park, Texas
- Lakeline Boulevard and Cypress Creek Road Improvements - Cedar Park, Texas
- FM 110 Corridor - Hays County, Texas
- Ronald Reagan Bridge at IH 35 - Williamson County, Texas
- CR 280 Schematic - Leander, Texas

**ALEXIS
WOFFENDEN, PE, CFM**
DRAINAGE LEAD



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
12 Years

EDUCATION
Bachelor of Science, Civil Engineering
- University of Texas at Austin

REGISTRATIONS
Professional Engineer, Texas
No. 117162
Certified Floodplain Manager (CFM)
No. 3175-16N

BACKGROUND
Alexis has 12 years of experience in the consulting civil engineering industry. The focus of her experience has been in all aspects of drainage engineering. This includes drainage studies, drainage design, flood mitigation, water quality facility design, detention facility design, and water resource protection. She has performed extensive H&H modeling, analyses, and studies for numerous watersheds in the Central Texas area. Alexis has designed and managed civil engineering projects for the City of Austin, City of Georgetown, Austin schools, and many other organizations and entities. The following provides a brief list of her relevant experience:

- Buda General Engineering Services - Buda, Texas
- 24-Acre Tract Flood Study and Floodplain Delineation - Austin, Texas
- Onion Creek Floodplain Study and Mapping - Austin, Texas
- Juvenile Detention Center Smith Branch Flood Study - Georgetown, Texas
- Jamestown Tributary Storm Drain Improvements - Austin, Texas

**STEPHEN
SHERRILL, PE, RPLS**
LAND/DEVELOPMENT PLANNING



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
39 Years

EDUCATION
Bachelor of Science, Civil
Engineering - Texas A&M University

REGISTRATIONS
Professional Engineer, Texas
No. 60733
Registered Professional Land
Surveyor, Texas
No. 4338

BACKGROUND
Stephen brings 39 years of engineering experience in real estate development, civil engineering, construction, and the oil and gas industries to the BBI team. He has proven experience in delivering multi-million-dollar projects on time and within budget. Stephen's experience and industry knowledge include all major phases of real estate development, property acquisition, financial analysis, entitlements, design, project management, preconstruction, estimating, bidding, scheduling, contract negotiation, contract management, change orders, and construction. Some of his project experience includes:

- Watersedge Development - Austin, Texas
- Sunset Oaks Subdivision - San Marcos, Texas
- Bradfield Village - Buda, Texas
- Lakeline Oak Section 1 - Cedar Park, Texas
- Oak Brook Section 1 - Round Rock, Texas
- West Park Oaks - Cedar Park, Texas

**JAMES
HORNSBY, PE**
STRUCTURAL DESIGN



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
29 Years

EDUCATION
Bachelor of Science, Civil Engineering
- University of Texas at Austin

REGISTRATIONS
Professional Engineer, Texas
No. 92596

BACKGROUND
James has 29 years of experience in structural engineering. His past and current responsibilities include project management and engineering in a wide variety of structural projects for municipal, transportation, land development, site development, and drainage facilities. His experience includes the structural design of concrete, steel, masonry, and wood structures for wastewater treatment plants, lift stations, retaining walls, sound walls, highway bridges, and control buildings. His project responsibilities include design, preparation of plans and specifications, development of design recommendations, cost estimates, and field observation. His relevant project experience includes:

- Lakeline Boulevard Bridge - Cedar Park, Texas
- Old Manor Road Bridge Replacement - Austin, Texas
- SH 45/Loop 1 Interchange - Austin, Texas
- Ronald Reagan Boulevard Bridge at IH 35 - Williamson County, Texas
- Private Bridge from Lowe's Boulevard to Walmart Addition - Killeen, Texas

**JERILYN
GREEN**
CLIENT LIAISON



FIRM
Binkley & Barfield, Inc.

EXPERIENCE
26 Years

EDUCATION
Bachelor of Science, Business
Management - University of New
Orleans

BACKGROUND
Jerilyn has 26 years of project coordination, liaison, and federal auditing and compliance experience in the government, construction, and utility industries. She is a Utility Coordinator and an active participant and leader in the utility damage prevention community. Known for increasing collaboration and cooperation among disjointed or competing entities, Jerilyn has been lauded for her skill in getting input from all impacted department representatives. She was asked by the Damage Prevention Councils in Central and South Texas to lead the coordination of safety training events for street, water, and wastewater crews in numerous cities and counties of Texas. To do this, she obtained support from multiple utility companies to teach crews how to work and dig safely around utilities.

PROFESSIONAL AFFILIATIONS

- Central Texas Damage Prevention Council (CTXDPC), Board Member
- South Texas Damage Prevention Council (STXDPC), Member
- San Antonio Area Utility Coordination Council (SAAUCC)
- Austin Utility Location and Coordination Committee (AULCC)
- Austin Neighborhoods Council (ANC), Former Representative

SECTION 3

Method of Approach

WORKING WITH BURNET COUNTY

PROJECT PLANNING AND MANAGEMENT

BBI proposes to serve Burnet County with both a dedicated Project Manager and a Principal. Brian Rice, PE, will serve as the Project Manager and main point of contact. Greg Calkins, PE, will serve as the Deputy Project Manager, and Reed Meriwether, PE, will serve as the Principal for the contract. This provides Burnet County with multiple resources to access if Brian is not readily available. Burnet County will be supported out of our Round Rock office, which will provide for prompt response time regarding meetings, calls, and construction site visits.

First and foremost, we consider BBI's team an extension of the Burnet County staff. It's our understanding each Commissioner oversees and manages transportation projects within their precinct. Our Project Manager will work closely and coordinate all work with the appropriate precinct staff or Commissioner.

BBI will begin each project by meeting with Burnet County to understand the needs and scope of the work. We will then develop a project framework and hold discussions of how the project goals may create other demands. It is important to work with Burnet County staff early to establish criteria and develop a Design Summary Report (DSR) for the selected project. All projects have issues, but the key to a successful project is to define and resolve them quickly and completely. When issues are identified, we will provide design alternatives with their associated costs so our client can make informed decisions.

We will also establish a project-based line of communication. Projects require efficient communication between our company, Burnet County staff, regulatory agencies, and local stakeholders. BBI can set up a project-specific web portal to contain pertinent information that can be accessed by any of the above entities.

The web portal will have meeting minutes, project photographs, milestone submittals, schedules, public meeting notices, reports, as-builts, and any other information that Burnet County wishes to have accessed. The web portal is a simple way to facilitate information exchange between all parties.

Other key items that are standard to any project include:

- Establishing an unbroken line of communication by designating a series of contacts who are familiar with the project should the BBI Project Manager not be immediately available; we always provide a back-up contact

- Developing a project schedule that shows all milestone submittal dates; this schedule will be distributed to all parties
- Establishing regular progress meetings
- Holding milestone review meetings after the review of each design or project submittal
- Scheduling field meetings that will allow Burnet County and the project team to document site conditions and see first-hand any potential conflicts that may occur prior to construction
- Attending kickoff meetings with county and/or city officials
- Identifying and securing the necessary permits

By implementing consistent, timely communications and high quality deliverables, we will partner with Burnet County to meet your engineering needs and achieve your roadway and infrastructure goals in preparation for a long and great future.

DESIGN PHASE SERVICES

Our team understands Burnet County's need to complete a project in a timely manner that will provide a quality product for years to come. We will develop multiple design options with detailed descriptions, pros, and cons to submit and discuss with Burnet County. Once compiled and completed, we will present these recommended alignments to Burnet County staff for review and comment before ultimately deciding a final design.

The result will be a 30% plan set that will include the recommended design and a memorandum report containing an opinion of probable construction cost and final design and construction schedule. Once discussions and decisions are achieved with Burnet County, final design will begin. Final design incorporates recommendations from preliminary design into detailed plans and specifications.

Our key design personnel have been involved with a great number of successful construction projects. We are well versed with the most current construction methods that will be required to successfully complete any project in a cost-effective manner. A prompt response to Burnet County staff regarding any questions or comments arising from plan reviews is a critical component to the project schedule. BBI would submit a 30%, 60%, 90%, and 100% set of plans and specifications for review and comment from Burnet County staff. The number of submittals will be reduced if all parties agree.

With each submittal, BBI will develop a cost estimate. BBI understands the importance of Burnet County's budget when developing a project. BBI will produce a final cost estimate that references recent projects of comparable

scale and scope as well as consult with highly respected contractors to obtain current pricing. BBI's goal is to have the cost estimate for each project be approximately the average of the actual bids Burnet County will receive.

We strive to create the most efficient design, keeping construction costs down. Sometimes concerns arise regarding the availability of funds. We offer our clients the option of bidding those aspects as alternates to maximize Burnet County's flexibility in awarding and completing as much of the project as possible without exceeding budget.

ADVERTISING AND BIDDING

BBI understands that advertising and bidding is an integral part of a project and treats it as important as the design itself. By taking an aggressive role in the bidding and advertising phase of a project, great value can be achieved. BBI will call, e-mail, and/or fax project advertising information to contractors to recruit qualified bidders for the work. Most importantly, our successful relationship with contractors yields more interest from the most qualified companies.

We take pride in the thoroughness of our pre-bid conferences. We believe that a detailed review of the plans and specifications is vital to receiving good, qualified bids for a municipal project. During the pre-bid conference, each component of the plans or study is reviewed with the prospective bidders to familiarize them with the plans and field questions. After the bids have been received,

BBI will carefully tabulate and review each bid. Once the apparent low bidder has been determined, the contractor's experience is thoroughly evaluated. Burnet County will be consulted prior to the contractor selection.

CONSTRUCTION ADMINISTRATION AND CLOSEOUT

BBI will provide construction phase services as needed for each project. We believe this is an area that sets us apart from other firms. The construction administration will be the responsibility of a Project Manager and not the contractor or Burnet County. This segment of the contract is a vital step in the development of a capital improvement project. BBI strongly believes in having a primary role during construction. We will make ourselves available to the contractor's project manager and Burnet County inspection forces and visit the job site on a periodic basis.

We believe immediate and thorough review of all submitted documents and materials from the contractor is a priority to expedite schedules enhancing a project. BBI believes in the importance of accurate record drawings for future reference by Burnet County. We will obtain record drawings from the contractor at the completion of the project and promptly submit them to Burnet County for your records. At the end of each project, Burnet County will have complete closeout documents that are well organized and ready to be archived.



US 281 and Gateway North – Marble Falls, Texas

SECTION 4

Understanding of Requested Services and Local Area

UNDERSTANDING OF SERVICES

Growth in Burnet County may be happening faster than expected and there is no better time than now to prepare successfully for a strong future. Roadway and infrastructure improvements are needed to support the residential and business growth as well as new communities being built.

Challenges arise from quarries and other industries needing to coexist with agricultural land and peaceful neighborhoods. Roadways, traffic, drainage, and other infrastructures become strained. Public involvement, wise planning, and successfully completed projects are keys to how BBI will support Burnet County's leadership in meeting the current and future needs of your residents, guests, and businesses.

The Capital Area Metropolitan Planning Organization (**CAMPO**) is one of the opportunities to gain funding for projects. We realize that you have utilized your engineering firm's staff to serve on the CAMPO Technical Advisory Committee (TAC). If desired by Burnet County, Brian Rice, PE, can be your representative on CAMPO. Brian has served and led many technical and governmental boards and committees and has consulted with TxDOT and numerous municipalities regarding project planning and funding. He also has long-standing relationships with CAMPO Transportation Policy Board (TPB) and TAC members and has worked with CAMPO Chair, Cynthia Long (Williamson County Commissioner), on several projects and boards.

One critically important, but sometimes underestimated key to getting CAMPO funding for transportation projects, is to accurately and meticulously complete the application requirements. Our team can guide Burnet County and provide the documentation needed to complete the application in a way that shows the need, the benefits, and the impact such improvements would make for the roads, residents, and businesses in Burnet County.

One of the challenges we see when working in Burnet County is the location of roadway construction materials. They are available in the region, but primarily in the south and east areas, which adds costs for projects in central, north, and west Burnet County. For example, the Vulcan, Texas Materials, and Delta Asphalt plants can easily serve the needs of projects around Marble Falls and Kingsland area, but it is more difficult to serve Burnet (city) and areas north and west. However, when we are developing our project cost estimates in these areas, we work with the plants to understand and account for the additional transportation costs.

Most of Burnet County's projects are small- to medium-size projects that can be done well with the regional contractors

available in Burnet County. However, your larger roadway projects can often benefit from the Austin and San Antonio-based contractors bidding which forces project bids down due to the efficiencies those contractors can bring to their projects.

BBI works hard to communicate with contractors throughout the Central Texas region to make sure they gain interest in our project bids, regardless of their location. This encourages greater participation and can be helpful by adding competition to the bid mix. We also look for opportunities to utilize smaller, but well-qualified contractors, to bid on projects by splitting projects into smaller sizes. Doing so allows more contractors to bid as it reduces the bonding requirements. The bottom line is we search for options to engage contractors on all sizes of projects to benefit the client with lower costs.

One of the major challenges of working in Burnet County is the granite outcroppings throughout the area. These soil conditions make it much more difficult to construct infrastructure and require consideration by the engineering team during the planning and cost estimating stages. The cost and schedule of all construction projects in these areas will increase significantly. We minimize the costs of projects in these areas by minimizing cut and increasing fill where needed, which is opposite of our approaches in most regions of Central Texas.

Burnet County does not have many challenges due to environmental constraints. However, one constraint we frequently deal with on projects is the Golden-cheeked warbler. This is an endangered species known to occur in the Ashe Juniper and deciduous woodlands within Burnet County. When building new or expanded roadways that require new ROW, a review will be done of potential habitats for the species. The projects will also require archeological investigations in compliance with the Texas Antiquities Code. Our subconsultant, ACI, has performed numerous such investigations in Burnet County.

SUMMARY

In summary, we offer a wide range of services that could meet your various needs as they arise. If you have a question, we will be available and respond promptly. Our goal is to completely satisfy and exceed your expectations for engineering services.



TxEng F-257

Austin

3901 South Lamar Boulevard, Suite 430
Austin, Texas 78704
512.292.0006

College Station

3452 Rock Prairie Road West
College Station, Texas 77845
979.703.1809

Corpus Christi

921 North Chaparral Street, Suite 211
Corpus Christi, Texas 78401
361.452.0470

Houston (Headquarters)

1710 Seamist Drive
Houston, Texas 77008
713.869.3433

Richardson

1801 Gateway Boulevard, Suite 101
Richardson, Texas 75080
972.644.2800

Round Rock

2401 Double Creek Drive, Suite 200
Round Rock, Texas 78664
512.292.0006

San Antonio

14310 Northbrook Drive, Suite 200
San Antonio, Texas 78232
210.502.2175



BinkleyBarfield.com