

Leavenworth County Sales Tax Projects

147th Street from Fairmount Road to Parallel Road

McIntyre Road between K-7 and K-5

Eisenhower Road from 155th Street to Tonganoxie Road

Leavenworth County, Kansas

April 24, 2015





April 24, 2015

Michael W. Spickelmier, P.E.
Public Works Director
Leavenworth County Department of Public Works
300 Walnut, Suite 007
Leavenworth, Kansas 66048

SUBJECT: Leavenworth County Sales Tax Projects

Dear Michael and Selection Committee:

We hope that this proposal and our record of service will allow the County to trust that GBA is the most qualified team of engineers and specialists to serve as the County's design consultant for these projects.

This proposal includes the information requested describing the GBA staff who will be dedicated to work with the County, our related experience working with the County and other clients, and our ability to provide timely, cost-effective solutions to transportation and development challenges.

Project Team

Cory Clark, P.E., who is the leader of GBA's Municipal Streets Group and has more than 19 years of experience, would serve as the overall project manager and main point of contact for the County. **Clarence Munsch, P.E.**, would serve as the principal-in-charge. Clarence has more than 32 years of experience.

The attached "Staff" section includes an organizational chart and resume information for the specific individuals committed to work with the County staff and officials on any of these projects.

We have assembled a team of qualified specialists that are the right fit for these projects. All of the team members have previous experience working together on municipal and county transportation projects.

Previous Experience

GBA has years of project experience working on both rural two lane facilities and suburban four lane arterial facilities. Our experience also includes traffic studies, traffic operations analysis, and intersection design, including signals. The "Related Experience" section of this proposal provides examples of projects we have completed similar to yours.

An example of our rural roadway work is the Elm Grove Road and Sharps Station Road project in Platte County, Missouri, where we completed roadway, bridge, and safety improvements to an eight-mile segment of rural two-lane roadway. This project earned a Practical Design Award of Excellence from MoDOT and ACEC-MO.

An example of our suburban arterial project work is the 127th Street Improvements in Olathe, Kansas. The project widened the corridor to a four-lane arterial section and included bridge widening, retaining walls, traffic

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for a higher quality of life

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GBA Companies
Lenexa, KS
Kansas City, MO
O'Fallon, MO
Chesterfield, MO
Omaha, NE
Rock Island, IL
Broomfield, CO

www.gbateam.com

signals, landscaping and lighting. Heavy involvement in the utility coordination and construction period services were also part of the services GBA provided.

GBA has assisted with several recent projects within Leavenworth County, including the current Cemetery Road Bridge Replacement project. Additionally, we completed the sanitary sewer collection system master plan and sanitary sewer improvements in the 7-Mile Creek Basin for the City of Lansing, and infrastructure planning and sanitary sewer flow monitoring and analysis for the City of Leavenworth. GBA also was hired by KDOT to design \$3 million in repairs to a structurally compromised pier on the Centennial Bridge over the Missouri River in the City of Leavenworth.

GBA has more than 40 years of experience working with KDOT on a variety of projects, large and small. Additionally, should any of these sales tax projects receive federal funding, we have extensive background working with KDOT Bureau of Local Projects and know the BLP process and expectations. In addition to the typical plan reviews performed by KDOT, it is critical to keep them apprised of project decisions and design status.

Survey Approach

GBA's approach to survey will be to first establish a detailed understanding of the scope of the job and its project footprint. After determining this, we will establish a horizontal and vertical control network based on local NGS monumentation, which can be preserved and used for design surveys and ultimately finished construction of the project.

To acquire topographical information of the site, we will judge what the most accurate and economical method is for the size of the job. This could be either using conventional field survey methods and equipment, or contracting with an Aerial Photogrammetry company to acquire most of the topography and supplement this product with conventional field survey methods.

GBA's survey team understands that utilities are an important piece of a project's design. We will work closely with the utility owners and their locators to create a detailed representation of existing utility services throughout the project area. Our survey team also works closely with GBA designers during this project phase to determine the level of effort required in locating existing utilities as not to create issues when going to construction.

Research of record documents will be performed at the county courthouse to determine right-of-way and property boundaries throughout the project area. The county surveyor will be consulted to help with any issues that may arise during the research or determination of this information. After a thorough search of the record documents, field surveys will be performed to locate existing monumentation throughout the project area to create accurate representation of these items. If required, GBA will acquire title work for the project to create a basemap for design work.

Utility Coordination

Utility investigations and conflict resolutions are critical to the success of roadway improvement projects. We have established relationships with local

utility owners and partnered with them to provide a smooth transition from design to construction on many projects.



The utility coordination process employed by GBA is more in-depth than standard practice to avoid costly and time consuming delays during construction. We adapt the process to fit the needs of the project and rely on good communication and documentation throughout all phases of design.

One example of recent success using this process has been on the Leavenworth Road at 55th and 72nd Street Improvements project in Kansas City, Kansas.

Construction Period Services

GBA's construction services staff of 14 inspectors possesses extensive experience with inspection and administration of all applications of roadway construction—earthwork, asphalt pavement, concrete pavement, curb and gutter, sidewalk, ADA ramps, storm sewer, bridges, RCBs, etc. Regardless of the size or scope of the project, we have the right staff available to meet the County's needs.

Our goal is the completion of your projects in a timely and cost-effective manner, focusing on concise and thorough communication and documentation. GBA's inspectors are KDOT, OSHA, and ACI certified and are able to provide the services required by the County's projects:

- Plan and bid item quantity review and documentation setup
- Project inspection and materials testing of pavement, sidewalk, curb and gutter, utility installations, traffic signals, storm sewer, earthwork, bridges, etc.
- Traffic control inspection
- Erosion and sediment control inspections
- Project close out documentation
- Public relations

We have experience working on projects requiring only partial construction oversight (Platte County bridges; 127th Street in Olathe), projects that receive federal funds (Turkey Creek Bridge in Merriam; Johnson Drive in Mission), and projects requiring materials testing or quality assurance services (US-69 overlay in Anderson, Allen and Miami Counties; Bob Billings Parkway Interchange construction in Lawrence). These projects are all recent and only a few of the projects GBA has provided construction services for over the past couple of years.

Project Timeframe

We would be able to begin project work as soon as the County could get a notice to proceed issued. Our survey and design workload would allow any of these projects to become an immediate priority.

The timeframe required to complete survey and design is dependent on whether the projects receive federal funding and will be developed through the KDOT BLP process. Generally speaking, the McIntyre Road project could be roughly a six-month timeframe, with 147th Street and Eisenhower Road being closer to one year for design completion.

As with any project, required utility relocations and right of way acquisition will also be critical factors when considering the project schedule.

Project Preference

In looking at the anticipated scope for the three projects, the Eisenhower Road project is best suited for GBA, in our opinion.



We have completed many arterial projects similar to Eisenhower that included multiple disciplines of engineering to achieve a final design product. These multi-discipline projects that incorporate roadway design, stormwater design, traffic studies, utility coordination, permitting, structural design, signal design, street lighting, etc., fit our capabilities very well. GBA is able to complete all of these project design components under one roof. This allows the collaboration and the cost-effectiveness throughout the design process to be maximized.

That being said, we would be happy to assist the County with any of the three sales tax projects.

Public Involvement

Our goal is to always tailor the public involvement process to the specific needs of each project. We will work with the County to develop a logical plan for any of the three projects, recognizing that they each may be different. Communication outreach could come in the form of public meetings, stakeholder meetings, Commission meetings, Council meetings, website notices, etc. Individual property owner meetings could be necessary dependent on the property impacts and right-of-way needs.

Responsiveness

GBA takes great pride in the fact that more than 90 percent of our business is from repeat clients and by referrals from satisfied clients. This satisfaction is in large part because of the responsiveness of our project managers, engineers, surveyors, inspectors and other specialists assigned to project teams.

We invite you to contact the references on the representative projects to verify the responsiveness of Cory and our other GBA team members.

Cost-Effective Solutions

GBA's mission statement includes a strong commitment to providing innovative, sustainable, cost-effective solutions to meet our clients' needs. Through client surveys, comments are made about how GBA is known for

thinking “out-of-the-box” to provide creative solutions that also save money. We use the latest technology to help us quickly evaluate alternative solutions.

We look forward to continuing to work with the County and to help realize innovative, sustainable, and cost-effective solutions for the Leavenworth County Sales Tax projects.

Sincerely,

GEORGE BUTLER ASSOCIATES, INC.



Clarence Munsch, P.E.
Principal-in-Charge



Cory Clark, P.E.
Project Manager

RELATED EXPERIENCE

Elm Grove and Sharps Station Improvements Platte County, Missouri



About the Project

GBA was selected to complete a study of roadway, bridge and safety improvements to an eight-mile segment of Elm Grove Road and Sharps Station Road. Following the study, GBA was retained to proceed with plan development through final design.

- Study emphasized safety improvements to the horizontal and vertical alignments, drainage improvements, and pavement section improvements for these roadway corridors in a semi-rural developing area
- Critical to the study was analysis of two bridge structures along Sharps Station Road that were impacted by the backwaters of the Platte River
- Structures are a multi-cell RCB bridge and a prestressed concrete girder bridge
- Coordination with MoDOT on the project design criteria was required to allow Platte County to obtain funding reimbursement through MoDOT's Soft Match Bridge Credit program
- GBA also provided public involvement and construction period services
- Project earned a 2008 Practical Design Award of Excellence from MoDOT and the American Council of Engineering Companies of Missouri (ACEC-MO)

Client Contact

Platte County Public Works
15955 Hwy 273
Platte City, MO 64079

Greg Sager

Director of Public Works
816.858.3339

Construction Cost

\$2.2 million

Completion Date

2007

GBA Project Team

PIC: Clarence Munsch
PM: Cory Clark
Roadway: Bryan Blizzard
Structures: Jon Karst
Permits: Todd Trotter
Surveys: Andrew Riddle

183rd Street Bridge and Roadway Improvements Johnson County, Kansas



About the Project

GBA was selected by Johnson County, Kansas, for the design of one mile of improvements on 183rd Street, from Nall Avenue to Mission Road. The project will provide a critical new east-west arterial connection for southern Johnson County.

- Project included upgrading and extending the existing two-lane roadway that will ultimately accommodate a future four-lane divided arterial
- Also included design of an approximately 600-foot bridge over Union Pacific railroad and Camp Branch Creek
- The western half of project will be constructed on undisturbed ground through an environmentally sensitive area. The design of the roadway alignments minimized impacts through this area as feasible

Client Contact
Johnson County
1800 W. 56 Highway
Olathe, Kansas 66061

Geoff Vohs, P.E.
Operations Engineer
913.715.8312

Construction Cost
\$4.6 million

Completion Date
Planned 2016

GBA Project Team
PM: Cory Clark
Bridge Design: Jon Karst
H&H: Katie Handley
Permits: Todd Trotter
Survey: Andrew Riddle
Utilities: John Cooper

108th Street Kansas City, Missouri



About the Project

- GBA was selected by Hunt Midwest and the City of Kansas City, Missouri, for the design of improvements to 108th Street from I-435 easterly to Smalley Avenue
- The project enhanced the safety and capacity of the roadway corridor
- The design included upgrading the existing two-lane roadway, horizontal and vertical realignment, RCB design for creek crossing, enclosed storm sewer, potential bike lane and shared use path and street lighting
- The roadway design accommodated a future four-lane divided arterial section
- Coordination with MoDOT was required for the improved connection of 108th at the I-435 interchange

Client Contact

City of Kansas City
414 E. 12th Street
City Hall, 11th Floor
Kansas City, MO 64106

Project Administrator

Hunt Midwest Real Estate
Development, Inc.
8300 NE Underground Drive
Kansas City, MO 64161

Aaron Schmidt

Director of Planning and
Construction
816.455.2500

Completion Date

2011

Construction Cost

\$3 million

GBA Project Team

PIC: Clarence Munsch
PM: Cory Clark
Roadway: Bryan Blizzard
Surveys: Andrew Riddle

Broadway Roadway Improvements Gladstone, Missouri



About the Project

- Upgraded the narrow two-lane open ditch roadways to widened two-lane roadways with on-street bike lanes and enclosed storm sewer
- Project includes retaining walls, ADA ramp and sidewalk compliancy upgrades, traffic control, street lighting, pavement marking and signing, and relocation and adjustment of water and sanitary sewer lines
- Hobby Hill Park, adjacent to the Broadway project, presented opportunities for sustainable design
- Project design incorporated and enhanced a small tributary running between the Park and the street
- Proposed grading modifications in the area will be seeded with native plants and wildflowers, helping to maintain the natural appeal of the Park area

Client Contact

City of Gladstone
P.O. Box 10719
Gladstone, MO 64188

Tim Nebergall, P.E.
Director of Public Works
816.436.2200

Completion Date

2011

Construction Cost

\$1.4 million

GBA Project Team

PIC: Clarence Munsch
PM: Cory Clark
PE: Bryan Blizzard
Permits: Todd Trotter
Surveys: Andrew Riddle

127th Street Reconstruction Olathe, Kansas



About the Project

- Project included widening to a four-lane divided thoroughfare section, including Indian Creek bridge widening, retaining walls, traffic signals, landscaping, and lighting
- Proposed section accommodates on-street bike and a shared-use path to connect to the existing trail system
- Utility coordination was a critical project component with a major north-south utility corridor and a separate large natural gas transmission line. GBA managed the utility coordination process through design and into construction for the City
- An innovative design concept to avoid relocating utilities in the major utility corridor saved the City approximately \$2 million and shortened the project schedule by one year
- GBA is providing surveying, permitting, roadway design, bridge and retaining wall design, traffic signals, management of public involvement, management of utility coordination, and construction inspection services
- The project was administered by the City of Olathe, with KDOT Bureau of Local Projects providing design reviews

Client Contact

City of Olathe
100 E. Santa Fe St
Olathe, KS 66061

Therese Mersmann

Project Manager
913.971.9032

Actual Construction Cost

\$10.8 million

Completion Date

2014

GBA Project Team

PIC: Clarence Munsch
PM: Cory Clark
PE: Bryan Blizzard
Structures: Jon Karst
Permits: Todd Trotter
Surveys: Andrew Riddle
Utilities/Construction Period
Services: John Cooper

Leavenworth Road Intersections at 55th and 72nd Kansas City, Kansas



About the Project

GBA provided professional engineering services to provide designs for improvements at the intersections of Leavenworth Road and 55th Street and 72nd Street in Kansas City, Kansas, for the Unified Government of Wyandotte County/Kansas City, Kansas.

- Project included widening for left turn lanes and complete signal replacements at each intersection
- Also included realignment of the north leg of 72nd Street to correct jog across existing intersection
- Addition of sidewalk along each leg of the intersections with ADA compliant ramps
- Widening of Leavenworth Road at 72nd Street included shift in the alignment and retaining wall
- Intensive coordination with property owners, business owners and utilities
- Project design and construction is administered through KDOT Bureau of Local Projects

Client Contact

Unified Government of
Wyandotte County/Kansas City,
Kansas
701 N. 7th Street, Room 712
Kansas City, KS 64101

Lideana Laboy, P.E., PTOE

Project Manager
913.573.5770

Completion Date

Design: 2014-2015
Construction: 2015-2016

Construction Cost

\$2.7 million

GBA Project Team

PM: Cory Clark
PE: Bryan Blizzard
Roadway: Joe Burgett
Traffic: Janelle Clayton
Permits: Todd Trotter
Utilities: John Cooper

Rainbow Boulevard Rehabilitation Improvements Westwood, Kansas



About the Project

GBA provided survey, pavement inventories and design, construction traffic control, roadway design and sidewalk enhancements to the project, which improved the Rainbow Boulevard corridor through the Cities of Westwood, Westwood Hills and Mission Hills.

- City received stimulus funding through the ARRA program for the improvements; Project was administered through KDOT Bureau of Local Projects
- Improved the corridor through the Cities of Westwood, Westwood Hills, and Mission Woods
- Scope included pavement rehabilitation, curb and drainage structure replacement, ADA ramp and sidewalk compliancy, pedestrian signals, traffic control, pavement marking and signing, and full-time management of the construction period services
- GBA consulted with asphalt and concrete industry representatives to explore various pavement rehabilitation alternatives to help identify the most cost-effective solution

Client Contact
City of Westwood
2545 W. 47th Street
Westwood, KS 66205

John Sullivan
Director of Public Works
913.432.1550

Completion Date
2010

GBA Project Team
PIC: Clarence Munsch
PM: Cory Clark
PE: Bryan Blizzard
Utilities/Construction Period
Services: John Cooper

Shawnee Mission Parkway at Woodland Road Shawnee, Kansas



About the Project

The City of Shawnee selected GBA to provide design services to correct operational and safety deficiencies at the intersection of Shawnee Mission Parkway and Woodland Road. Recent developments in the area, including a new Quik Trip, have changed traffic volumes and patterns.

- The project added dedicated turn lanes, improved access control and provided new crossing to safely move pedestrians and bicyclists across Shawnee Mission Parkway
- GBA designed a staged modification to the traffic signal system to accommodate the geometric and pedestrian crossing modifications
- GBA completed structural evaluation of the existing mast arm signal poles to allow modification and relocation of existing poles to save limited budget dollars
- The design also included modification and extension of the existing intersection street lighting system
- The design incorporated state-of-the-art radar vehicle detection, Opticom fire-lane preemption and internally illuminated street name signs

Client Contact

City of Shawnee
11110 Johnson Drive
Shawnee, KS 66203

Paul Lindstrom

Senior Project Engineer
913.742.6234

Construction Cost

\$520,000

Completion Date

2015

GBA Project Team

PIC: Clarence Munsch
PM: Cory Clark
PE: Bryan Blizzard
Traffic Signal Design: Janelle Clayton
Surveys: Andrew Riddle

STAFF
ORG CHART
RESUMES

Leavenworth County, Kansas

GBA Project Management

Clarence Munsch, P.E.
Principal-in-Charge

Cory Clark, P.E.
Project Manager
913.577.8350
cclark@gbateam.com

GBA Project Team

Bryan Blizzard, P.E.
Project Engineer

Joe Burgett, EI
Roadway/Drainage Design

Janelle Clayton, P.E., PTOE
Traffic Engineering and Design

Jon Karst, P.E.
Structural Engineering

Katie Handley, EI
Hydrology and Hydraulics

Todd Trotter
Permitting

Andrew Riddle, LS
Surveying

John Cooper, P.E.
Utility Coordination/
Construction Administration



Clarence D. Munsch, P.E.
Principal/Highways and Streets Group Leader

Project Experience

As a firm principal, Clarence carries design and management responsibility for numerous types of highway and street projects, including state and interstate highways, interchanges, rural and urban arterials and collector and residential streets. His related experience includes:

127th Street Reconstruction - Olathe, Kansas

Principal-in-Charge for the reconstruction of 127th Street between Black Bob and Pflumm. The project includes roadway and bridge widening, retaining walls, traffic signals, and street lighting. The proposed section accommodates a shared-use path to connect to the existing trail system, waterline and storm sewer design.

75th Street: Mission Road to State Line - Prairie Village, Kansas

Principal-in-Charge for the improvements to the corridor. Improvements include intersection realignments, roadway adjustments to allow a new sidewalk and the replacement of retaining walls. Access management improvements include construction of raised medians, drive closures, right-in/right-out drives, shared access drives and transforming “seas” of parking areas into delineated drives.

143rd Street: Antioch to Metcalf - Overland Park, Kansas

Principal-in-Charge for the improvements, which involved the widening from a two-lane to a four-lane divided arterial. The project addressed intersection site distance issues, added turn lanes and constructed sidewalks and bike paths.

Hutton Road Phase 1 Improvements - Kansas City, Kansas

Principal-in-Charge for the \$2.3 million project which involved the replacement of a half mile of deteriorating roadway with new asphalt pavement, storm sewer, curb and gutter, sidewalk and traffic signal modifications. Early coordination of utility relocations was critical to address unexpected conflicts.

Professional Registrations

Professional Engineer: AR, 1995; IL, 2010; KS, 1985; MO, 1988; NE, 1993; OK, 1985; TX, 1987

Professional Memberships

ACEC
APWA
KCHA
KSPE
NSPE
TEAM

Education

Bachelor of Science, 1982
Civil Engineering
Kansas State University



Cory Clark, P.E.
Project Manager/Senior Associate

Project Experience

As GBA’s Municipal Streets Group Manager, Cory has been involved in the project management and design of a variety of street and highway projects, including rural and urban arterials, collector and residential streets, county roads, and state and interstate highways, including interchange design. Cory’s project work has ranged from preliminary alignment studies to development of preliminary and final plans for construction. He has also assisted clients with utility coordination efforts and construction period services. His related experience includes:

2008-2014 Olathe Street Rehabilitation Program - Olathe, Kansas

Project Manager and QA/QC for the continuing projects, which include mill and overlay, ADA ramp and sidewalk compliancy, replacement of curbs and sidewalks, pavement marking, and signal detection loop modifications. GBA has been providing rehab program services to Olathe since 2008.

127th Street Reconstruction - Olathe, Kansas

Project Manager for the reconstruction of 127th Street between Black Bob and Pflumm. The project includes widening, retaining walls, traffic signals and lighting. The proposed section accommodates both on-street bike lanes and a shared-use path to connect to the existing trail system. Utility coordination is key to the project.

75th Street: Mission Road to State Line - Prairie Village, Kansas

Project Manager for the improvements to the corridor. Improvements include intersection realignments, roadway adjustments to allow a new sidewalk and the replacement of retaining walls. Access management improvements include construction of raised medians, drive closures, right-in/right-out drives, shared access drives and transforming “seas” of parking areas into delineated drives. Design and construction administered through KDOT Bureau of Local Projects.

Professional Registrations

Professional Engineer: MO, 2000; KS, 2007; TX, 2008

Professional Memberships

APWA
ASCE
MSPE
TEAM
ACEC—KS

Education

Bachelor of Science, 1995
Civil Engineering
University of Missouri, Columbia



Bryan A. Blizzard, P.E.
Project Engineer

Project Experience

Bryan has been involved in the design and project management of a variety of municipal and county transportation projects, as well as projects for the Missouri Department of Transportation (MoDOT) and the Kansas Department of Transportation (KDOT). Bryan's experience includes horizontal and vertical alignment, storm drainage design, erosion control, earthwork, traffic control, quantity calculations and innovative uses of the roadway design software.

127th Street Reconstruction - Olathe, Kansas

Project Engineer for the reconstruction of 127th Street between Black Bob and Pflumm. The project includes widening, retaining walls, traffic signals and lighting. The proposed section accommodates both on-street bike lanes and a shared-use path to connect to the existing trail system. Utility coordination is key to the project.

Kansas Avenue Improvements - Olathe, Kansas

Project Manager for the improvements of Kansas Avenue. The project consisted of design of mill and overlay with replacement of sidewalk, curb, entrance, walls, and inlet throats where needed. Signal modifications, signal upgrades, pavement marking, and traffic control.

2008-2014 Olathe Street Rehabilitation Program - Olathe, Kansas

Project Manager/Project Engineer for the continuing projects, which include mill and overlay, ADA ramp and sidewalk compliancy, replacement of curbs and sidewalks, pavement marking, and signal detection loop modifications. GBA has been providing rehab program services to Olathe since 2008.

Professional Registrations

Professional Engineer: KS,
2005; MO, 2010

Professional Memberships

APWA
KSPE
MSPE

Education

Bachelor of Science, 2000
Civil Engineering
Iowa State University



Joseph G. Burgett, EI
Roadway Engineer

Project Experience

Joe has been involved in a variety of roadway design projects for several municipalities in the Kansas City metro. His experience on these projects includes horizontal and vertical alignments, hydrologic and hydraulic analysis, erosion control, earthwork and tabulation of quantities. Joe has been gaining experience in computer applications for engineering design including MicroStation and GEOPAK. His related project experience includes:

Shawnee Mission Parkway & Woodland Road - Shawnee, Kansas

Assisted with roadway design for the intersection at Shawnee Mission Parkway and Woodland Road. The project was designed to correct operational and safety deficiencies by adding dedicated turn lanes, improve access control and provide a new crossing to safely move pedestrians and bicyclists across Shawnee Mission Parkway.

Kansas Avenue Improvements - Olathe, Kansas

Roadway design for the improvements of Kansas Avenue. Includes two-inch mill and overlay with superpave asphalt, miscellaneous sidewalk, curb, driveway approach and ADA ramp improvements.

75th Street: Mission Road to State Line - Prairie Village, Kansas

Roadway design for the improvements to the corridor. Improvements include intersection realignments, roadway adjustments to allow a new sidewalk and the replacement of retaining walls. Access management improvements include construction of raised medians, drive closures, right-in/right-out drives, shared access drives and transforming “seas” of parking areas into delineated drives. Design and construction administered through KDOT Bureau of Local Projects.

Professional Registrations

Engineer Intern:
KS, 2013

Professional Memberships

APWA

Education

Bachelor of Science, 2014
Civil Engineering
Kansas State University



Janelle M. Clayton, P.E., PTOE
Traffic Engineering and Design

Project Experience

Since joining GBA, Janelle Clayton has worked on various traffic engineering projects, including traffic impact studies, intersection design and layout, interchange design, signal design, construction traffic control, street lighting and regulatory signing. She has experience with computer programs in engineering analysis and design including HCS, Synchro, Sidra, WinTass, AutoCAD and Microstation. Janelle's related project experience includes:

Kansas Avenue Improvements - Olathe, Kansas

Traffic engineer providing pavement markings and traffic signal modifications for the improvements of Kansas Avenue. The project includes two-inch mill and overlay with superpave asphalt, miscellaneous sidewalk, curb, driveway approach and ADA ramp improvements.

Shawnee Mission Parkway & Woodland Road - Shawnee, Kansas

Traffic engineer for the intersection at Shawnee Mission Parkway and Woodland Road providing traffic signal modifications, pavement markings, traffic control and signing. The project was designed to correct operational and safety deficiencies by adding dedicated turn lanes, improve access control and provide a new crossing to safely move pedestrians and bicyclists across Shawnee Mission Parkway.

183rd Street & Center Street - Gardner, Kansas

Provided traffic signal design for the new signal at the intersection of 183rd Street and Center Street. The project also included sidewalk modifications with ADA compliant ramps.

Professional Registrations

Professional Engineer:
KS, 2003; MO, 2007

Professional Memberships

ITE
KCITE
MoVITE

Education

Bachelor of Science, 1998
Civil Engineering
University of Nebraska, Lincoln

Professional Traffic Operations
Engineer: 2006



Jon Karst, P.E., S.E.
Structural Engineer/Senior Engineer

Project Experience

Since coming to GBA in 2001, Jon has designed multiple bridges, box culverts and retaining walls using both LFD and LRFD design, provided construction period services and conducted NBI bridge inspections. He has worked on everything from small rural bridges to large interstate structures. His project experience includes:

127th Street Reconstruction - Olathe, Kansas

Bridge and Retaining Wall Designer for the reconstruction of 127th Street between Black Bob and Pflumm. The project includes widening, retaining walls, traffic signals, and lighting. The proposed section accommodates both on-street bike lanes and a shared-use path to connect to the existing trail system. Utility coordination is a vital component of the project.

75th Street: Mission Road to State Line - Prairie Village, Kansas

Retaining Wall Designer for the project. Improvements include intersection realignments, roadway adjustments to allow a new sidewalk and the replacement of retaining walls. Access management improvements include construction of raised medians, drive closures, right-in/right-out drives, shared access drives and transforming “seas” of parking areas into delineated drives. Design and construction administered through KDOT Bureau of Local Projects.

Indian Lane Bridge Replacement - Mission Hills, Kansas

Provided five different bridge types for review where residents provided valuable feedback and picked their favored aspects of each bridge. GBA combined them into a final alternative. The final structure is a timber bridge that incorporated guide lights embedded in the brush curb, six large planters on the bridge, a highly durable and long lasting Ironwood driving surface, and decorative stone masonry facing on the abutments and piers.

Professional Registrations

Professional Engineer: KS, 2009; MO, 2006;

Structural Engineer: IL, 2011

Professional Memberships

ACEC

Professional Certifications

KDOT Certified Inspector: CPI, BI, STR, ACI/CF

Education

Bachelor of Science, 2001
Civil Engineering
University of Missouri, Columbia



Katie N. Handley, EI
H&H/Water Resources Engineer

Project Experience

Katie has prepared designs based on ecological engineering principals to alleviate flood issues and developed a living machine to clean wastewater. Katie has studied stream stability and best management practices with experience in stream surveys, data collection and site monitoring.

Mission Road Improvements - Johnson County, Kansas

Katie developed a work map for site visit and survey, performed the site visit to determine Manning’s N values and streambed characteristics, obtained a FEMA model and developed a corrected effective model, and developed an existing conditions model.

Clark Avenue Bridge - Platte County, Missouri

Clark Avenue Bridge over Grove Creek is located in a FEMA Zone AE with Floodway. Katie’s duties on the project design included developing a workmap for site visit and survey; a site visit to flag survey stream sections, determine Manning’s N values for model implementation and complete a pebble count for scour analysis; obtaining and reviewing the FEMA model; developing existing and proposed conditions models; analyzing various roadway profiles and bridge sizes in order to obtain a “no rise” in the project area; sizing riprap protection for side slopes.

Crescent Hill Road Bridge Replacement - Miami County, Kansas

Katie provided hydrology and hydraulic assessments for this bridge replacement and roadway improvement in Miami County, Kansas. Katie’s duties included developing a work map for site visit conducted to examine cross-section locations, reach characteristics, developing Manning N values and determining streambed material; developing hydrology, using regression equations; developing a hydraulic model for both existing and proposed, which included sizing the structure in order to meet FEMA requirements as it is located in FEMA Zone A; completing hydraulic assessment checklist; performing a scour analysis and riprap sizing; completing a floodplain development permit.

Professional Registrations

Engineering Intern
KS, 2011

Education

Bachelor of Science, 2011
Biological Systems—
Engineering
Kansas State University

Master of Science, 2011
Environmental Engineering
Kansas State University



Todd Trotter
Environmental Permitting/Biologist

Project Experience

Todd Trotter is a project biologist in GBA’s Water Environment Group. He has extensive experience performing jurisdictional delineations in accordance with the U.S. Army Corps of Engineers (Corps) Wetlands Delineation Manual and Midwest Regional Supplement, obtaining Clean Water Act Section 404 / 401 permits, monitoring mitigation sites, developing native restoration specifications, coordinating cultural resource investigations and conducting endangered species surveys. Todd also has experience conducting research and preparation of Environmental Assessments and Categorical Exclusions as required by the National Environmental Policy Act (NEPA).

143rd Street Improvements - Overland Park, Kansas

Project scientist responsible for:

Conducting a Preliminary Jurisdictional Wetland Delineation

Preparing and obtaining a Corps of Engineers Section 404/401 Individual Permit

Coordinating compensatory mitigation activities for impacts to waters of the U.S.

Developing and sequencing of erosion and sediment controls

Obtaining a NPDES Construction Stormwater Permit

127th Street Reconstruction - Olathe, Kansas

Permitting specialist for NPDES, USACE Section 404 and Stormwater Pollution Prevention Plan for this arterial reconstruction project. As part of the work completed, GBA analyzed the existing hydraulic conditions and bridge and culvert improvements. GBA also studied bank stabilization requirements for floodplain fills at Indian Creek.

Professional Memberships

Society of Wetland Scientists
International Erosion Control
Association

Education

Bachelor of Science, 2001
Emphasis in Environmental
Management
Pittsburg State University

NEPA Certification Program

2011-present
Utah State University



Andrew J. Riddle, LS
Survey

Project Experience

Since joining GBA, Andrew has gained a broad range of experience in providing right-of-way maps, legal descriptions for right-of-ways, easements, boundary surveys, and calculations, ALTA/ACSM Land Title Surveys and preparation of plats and topographical surveys. His project experience includes:

127th Street Reconstruction - Olathe, Kansas

Provided surveying for the reconstruction between Black Bob and Pflumm. The project included widening, retaining walls, traffic signals and lighting.

Kansas Avenue Improvements - Olathe, Kansas

Provided surveying for the improvements of Kansas Avenue. The project includes two-inch mill and overlay with superpave asphalt, miscellaneous sidewalk, curb, driveway approach, ADA ramp improvements, waterline and sanitary sewer replacement.

126th Street: State to Parallel - Kansas City, Kansas

Provided surveying services, which involved construction staking improvements.

143rd Street: Switzer to Antioch - Overland Park, Kansas

Field surveys in conjunction with improvements which included: property strip map, easement and right-of-way document preparation construction staking ownership and legal descriptions.

2008 Storm Drainage Repair Program - Prairie Village, Kansas

Provided surveying services for the replacement design of nearly 30 existing curb inlets and design of 600 linear feet of new storm sewer and four storm structures.

Professional Registrations

Land Surveyor: KS, 2009;
MO, 2013; NE, 2012

Professional Memberships

KS Society of Land Surveyors

Education

Longview Community College
Johnson County Community
College



John C. Cooper, P.E.
Utility Coordination/Associate

Project Experience

John has more than 20 years of experience as a project manager for construction management and inspection services. He has worked with the Kansas Department of Transportation and several municipalities and counties in Kansas and Missouri. His experience includes asphalt and concrete paving operations, traffic signal installations, bridge structures, large grading projects and urban reconstruction projects. His related project experience includes:

127th Street Reconstruction - Olathe, Kansas

Utility coordinator for the project which included reconstruction of 127th Street between Black Bob and Pflumm. The project included widening, retaining walls, traffic signals, and lighting. Utility coordination was a vital component of the project.

Hutton Road Improvements, Phase I - Unified Government/Kansas City, Kansas

Construction period services project manager and utility coordination for the \$2.3 million project which involved the replacement of a half mile of deteriorating roadway with new asphalt pavement, storm sewer, curb and gutter, sidewalk and traffic signal modifications. Also provided utility coordination relocations which was critical during the early stages of the project.

Rainbow Boulevard: 47th Street to Shawnee Mission Parkway - Cities of Westwood, Westwood Hills and Mission Woods, Kansas

Construction period services project manager for the rehabilitation, which included full-depth pavement repair, mill and overlay, curb and drainage structure replacement, ADA ramp and sidewalk compliancy, and full depth concrete approach lanes. Provided assistance in obtaining funding through the CARS and KLINK programs.

Professional Registrations
Professional Engineer: KS, 1998; MO, 2004

NUC, QC/QA Concrete, AGF, SOF, PO, DSI, Troxler

Safety & Health Training Course in Construction

Professional Certifications
KDOT Certified Inspector: API, CPI, BI, STR, ACI/CF, Statistics,

MoDOT Technician Certification: AT, PI, SD, CF
OSHA 10-Hour Occupational

Education
Bachelor of Science, 1993
Civil Engineering
Kansas State University